One Michael Owens Way, Plaza 1
Perrysburg OH 43551-2999
Telephone 567-336-8682

November 10, 2014

RECEIVED
By Alameda County Environmental Health at 8:45 am, Nov 12, 2014

Mr. Jerry Wickham
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway Ste. 250
Alameda, CA 94502-6577

Subject: R00000289
REPORT OF TARGETED SOIL EXCAVATIONS 2011 AND 2014, PETROLEUM HYDROCARBON RELEASES OWENS-BROCKWAY GLASS CONTAINER FACILITY.
3600 ALAMEDA AVENUE, OAKLAND, CALIFORNIA.

Dear Mr. Wickham,

Owens-Brockway Glass Container Corporation is pleased to submit the attached Report of Targeted Soil Excavations 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
Environmental Administrator

REPORT OF TARGETED SOIL EXCAVATIONS 2011 AND 2014, PETROLEUM HYDROCARBON RELEASES OWENS-BROCKWAY GLASS CONTAINER FACILITY 3600 ALAMEDA AVENUE OAKLAND, CALIFORNIA

CKG Environmental, Inc.
P.O. Box 246
St. Helena, CA 94574

A Report Prepared for:

Mr. Mark Tussing
Owens-Brockway Glass Container, Inc.
One Michael Owens Way
Perrysburg, OH 43551-2999

REPORT OF TARGETED SOIL EXCAVATIONS 2011 AND 2014
PETROLUEM HYDROCARBON RELEASES
OWENS-BROCKWAY GLASS CONTAINER FACILITY
3600 ALAMEDA AVENUE
OAKLAND, CALIFORNIA

November 9, 2014

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. Onsite facilities include the operating glass manufacturing plant, warehouses, and offices. Two former underground fuel storage tank (UST) areas existed at the Oakland plant.

The following report presents the results of excavation activities completed in August 2011 and June 2014. These excavation activities were designed to address petroleum hydrocarbon source areas at the plant and were completed in accordance with CKG Environmental, Inc's Corrective Action Plan dated November 30, 2010 and Revised Corrective Action Plan dated January 17, 2014. Between the two excavation events a total of four excavations were completed with total quantities of petroleum hydrocarbon impacted soil removed as follows:

Excavation B (2011) 2834.45 tons
Excavation D (2011) 2988.24 tons
Excavation C (2014) 460 tons
Excavation E (2014) 1541 tons

In all four excavations Oxygen Release Compound (ORC Advanced) was placed in the bottoms in contact with groundwater to promote further biodegradation of petroleum hydrocarbons in place.

The removal of source materials at the four locations is partial completion of an overall site remediation program that is being completed in phases. Some potential source areas are simply not accessible at the active glass plant and will be addressed at some time in the future when the plant operations cease. A groundwater treatment biobarrier is presently being designed and its implementation will be documented under separate cover. After the biobarrier is installed quarterly groundwater monitoring will be used to evaluate remediation effectiveness.

2.0 INTRODUCTION

The following Report of Targeted Excavation and In-Situ Chemical Oxidation presents the actions completed and results obtained from implementing the Corrective Action Plan dated November 30, 2010 and the Revised Corrective Action Plan dated January 17, 2014 both prepared by CKG Environmental, Inc. (CKG). These documents were submitted to the Alameda County Environmental Health Department (ACEHD). A total of four targeted excavations were completed in two separate events. Excavations B and D were complete in August 2011. Excavations C and E were completed in June 2014.This report is organized such that overall site information is presented here and details regarding the two excavation events are contained in the two attached construction closeout reports.

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 Home Depot to the east, and residences to the north. Onsite facilities include the operating glass manufacturing plant, warehouses, and offices (Plate 2).

Two former underground fuel storage tank (UST) areas existed at the Oakland plant (Plate 2). The first UST area was located on the west side of the plant and included three fuel oil USTs and potentially one small waste oil UST. Also in this area is a former lube oil tank located adjacent to the plant, between the Batch Building and the Furnace Building. Releases of fuel oil to the subsurface were observed when the USTs were removed.

The second UST area was located near the central part of the plant adjacent to the compressor building. Originally there were four USTs in this area and upon removal a gasoline release to the subsurface was observed. Two 24,000 gallon fuel oil USTs were installed in this area following the removal of the original four USTs, and these two USTs were removed in 1998.

2.2 PETROLEUM HYDROCARBON STORAGE

Petroleum hydrocarbons were stored in underground storage tanks located in various areas of the site as shown on Plate 2

2.2.1 Western Fuel Storage Area

One UST site is located on the west side of the plant and included three former USTs, which were used to contain fuel as follows:

- 8,300 gallon lube oil
- 24,000 gallon fuel oil
- 24,000 gallon fuel oil

At the time these USTs were removed in 1987 it was discovered that fuel oil had been released to the subsurface. Owens-Brockway excavated impacted soil at the time the USTs were removed. Past efforts to remove floating hydrocarbon product associated with the fuel oil release have been unsuccessful. This lack of success is mainly due to the clay rich nature of the subsurface and the viscosity of the product. Groundwater monitoring has been ongoing since 1987.

A smaller waste oil UST is thought to have been located adjacent to the forklift ramp next to the bottling plant. The size and status of this UST is not known.

A lube oil UST was formerly located between the Furnace Building and the Batch Building. Details regarding this tank are unknown except that it was reportedly removed.

2.2.2 Central Fuel Storage Area

The second UST area is located near the central part of the plant adjacent to the compressor building. Originally there were four fuel USTs in the area as follows:

- 500 gallon diesel
- 4,000 gallon diesel

- 4,000 gallon gasoline
- 15,000 gallon diesel

When they were removed in 1986 a gasoline release to the subsurface was observed. Owens-Brockway excavated impacted soil at the time these USTs were removed. Two 24,000 gallon fuel oil USTs were installed in this area following the removal of the original four USTs, and these two USTs were removed in 1998. No indications of fuel releases were noted at that time.

2.3 SUMMARY OF HISTORICAL INVESTIGATIONS

The following presents a brief summary of site investigation and remediation history. A more thorough description is provided in the FS.

2.3.1 Western Fuel storage Area

In September 1986 Exeltech removed a 16,000 gallon fuel oil UST along with 148 cubic yards of impacted soil. Also at that time they installed a 36-inch product recovery well (PR-1) in the excavation in an attempt to recover free phase fuel oil. Approximately six months after the product recovery well was installed Exeltech installed a product skimmer however no measurable quantity of product was recovered. The difficulty reportedly arose because the recovery equipment could not handle the viscosity of the product. Exeltech implemented triennial groundwater monitoring through 1987 and 1988.

In 1989 the equipment in the first product recovery well was upgraded and a second product recovery well (PR-2) was installed near MW-2. Product recovery efforts were still unsuccessful and abandoned.

In 1997 Kennedy Jenks Consultants (Kennedy Jenks) was retained to resume annual groundwater monitoring and to continue investigative and remediation work at the facility. In August 1997 a limited quantity of free floating product was removed from wells (MW-2, MW-5, and MW-6) using bailers and absorbent pads.

In January 1999 Kennedy Jenks completed an offsite investigation in which five Geoprobe ™ borings were installed on the south side of Alameda Avenue to assess the downgradient extent of petroleum hydrocarbon impacted soil and groundwater. Three of the five borings indicated detectable concentrations of petroleum hydrocarbons.

In June 1999 Kennedy Jenks installed a Petro-Trap™ product skimmer but again the product recovery effort had limited success. In December 2000 Soakease™ absorbent pads were installed in MW-2, MW-5, MW-6, MW-7, MW-8 and MW-9. These pads are still in use. Also in December 2000 Kennedy Jenks installed MW-20 and incorporated it into the monitoring program.

In July 2001 CKG Environmental, Inc. (CKG) was retained to destroy the two unused product recovery wells. This action was taken because of concerns that the wells could act as migration pathways for surface water infiltration.

In May 2003 CKG installed MW-19 on the south side of Alameda Avenue and incorporated it in the annual monitoring program which CKG has been implementing since that time. Additionally, in May 2003 CKG completed Cone Penetration Testing (CPT) to evaluate the distribution of petroleum hydrocarbons in the fuel oil release area and to investigate potential preferential contaminant pathways related to the granular backfill surrounding underground utilities. Fifteen CPT points were installed and soil and groundwater samples were collected.

CKG prepared a Site Conceptual Model (SCM), dated April 3, 2009. To address the data gaps identified in the SCM CKG completed a data gap investigation commencing in August 2009. The data gap investigation included a comprehensive utility survey to accurately map out subsurface utilities. CKG then installed 41 soil borings using a Geoprobe™ rig. Soil and groundwater samples were collected for quantitative chemical analysis.

Field observations made and data collected during the subsurface explorations suggested that in the Western UST Area groundwater impacts were pervasive but that soil impacts were focused in the UST source areas. The remediation activities at the site indicate free-phase product at the

Western UST Area. This fuel oil has been difficult to extract from the subsurface due to the subsurface soil conditions at the site which have low permeability and hydraulic transmissivity.

2.3.2 Central fuel storage Area

In 1986 three USTs (one 350 gallon, two 8,000 gallon and one 12,000 gallon) were removed and replaced with two double walled USTs (one for gasoline and one for diesel which were later removed in 1998). At the time the USTs were removed in 1986 a visible release from the gasoline UST was observed and 350 cubic yards of soil impacted soil were removed. No releases were reported from the tank removal in 1998.

In 1986 Exeltech conducted a subsurface investigation to determine potentially impacted soil and groundwater associated with the gasoline release. The results indicated impacted soil and groundwater, however, free-phase hydrocarbon product was not observed. The three wells located in the gasoline release area were incorporated into the triennial groundwater monitoring program. No other investigations or remedial actions have taken place in the gasoline release area.

The 2009 data gap investigation documented the presence of a previously undocumented diesel release located in the vicinity of the former UST area.

3.0 REMEDIATION ACTIVITIES

Remediation activities are being implemented in phases that include addressing some source areas and offsite migration of impacted groundwater. Other source areas and onsite groundwater are very difficult to address while the plant is operating. At such time as the plant closes, these areas will be addressed. There is no schedule for plant closure at this time. To date four source areas have been excavated. These include excavations B and D that were completed in August 2011 and excavations C and E that were completed in June 2014.

3.1 EXCAVATIONS B AND D, AUGUST 2011

In July and August 2011 CKG mobilized to the site and completed Excavations B and D as outlined in detail in Attachment 1 and shown on Plate 2. During those excavation activities it became clear that previously unknown subsurface obstructions and existing site facilities were going to make it difficult to address all source areas. Also at that time CKG discovered the presence of a previously unknown brick underground fuel oil storage structure that still contained aged fuel oil. That structure was removed in 2014 as discussed in Section 3.2

In total 2834.45 tons of impacted material was removed at Excavation B and 2988.24 tons of material was removed at excavation D. After excavation a slurry of ORC Advanced was placed in both excavations. Approximately 5550 pounds of ORC was placed in Excavation B and 8096 pounds of ORC was placed in Excavation D.

3.2 EXCAVATIONS C AND E, JUNE 2012

In June 2014 CKG mobilized to the site and completed Excavations C and E as outlined in detail in Attachment 2 and shown on Plate 2. Excavation C was targeted at a former lube oil UST adjacent to the plant building. Historical records were not clear regarding whether or not the UST had been removed so CKG was prepared to excavate it and remove it if necessary. The UST was not found in the excavation. Excavation E was placed at the location of the brick fuel oil storage structure that was discovered in 2011.

In total 460 tons of impacted material was removed at Excavation C and 1541 tons of material was removed at excavation E. After excavation was completed ORC Advanced pellets were placed in both excavations. Approximately 495 pounds of ORC was placed in Excavation C and 2035 pounds of ORC was placed in Excavation E.

3.3 PROPOSED BIOBARRIER

CKG has prepared a conceptual design for a biobarrier to treat groundwater at the downgradient property boundary. The biobarrier will consist of a series of closely spaced wells which will be used for air sparging. The sparging will increase dissolved oxygen in the subsurface which will promote natural biodegradation in the groundwater. This design was submitted to ACEHD on August 13, 2014. CKG met with ACEHD on September 4, 2014 and received conditional concurrence with the plan. At this time the design and bid specifications are being prepared. CKG anticipates that the biobarrier will be installed in late 2014 and operated continuously until such time as groundwater impacts are low enough to meet corrective action goal yet to be determined. A report of biobarrier installation will be submitted separately.

4.0 REMEDIATION EFFECTIVENESS MONITORING

Groundwater wells will be monitored to evaluate biological conditions and concentrations of site constituents. The ultimate goal is to remove TPH compounds from the groundwater. Therefore, a noticeable decline in GRO, DRO, and ORO concentrations in downgradient monitoring wells will be considered a successful implementation of the bio-barrier. The following wells will be monitored on a quarterly basis for the first year following startup of the bio-barrier:

MW-2R (upgradient)
MW-3R (within the bio-barrier)
MW-5 (upgradient)
MW-6 (within the bio-barrier)
MW-7 (within the bio-barrier)
MW-10 (upgradient)
MW-15 (within the bio-barrier)
MW-19 (downgradient)
MW-21 (downgradient)

To evaluate treatment performance, the collected groundwater samples will be tested for the following:

- TPH compounds by EPA Method 8015;
- benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, methyl-tert butyl ether (MTBE), and lead scavengers (ethylene dibromide and 1,2-dichlorethane) by EPA Method 8260B.
- heterotrophic plate counts by Standard Method (SM) 9215,
- alkalinity by EPA 310.1,
- and nitrate and nitrite, and sulfate by EPA 300.0

To evaluate the subsurface conditions for biodegradation to occur, the collected groundwater samples will be tested for dissolved oxygen (DO), pH, and oxygen reduction potential (ORP) in the field. In addition, groundwater levels will also be measured to understand groundwater flow direction and gradient.

Following one year of monitoring, each well will be reviewed for its relevance in the monitoring program. The monitoring frequency may be maintained, reduced to semi-annually, or a well

may be eliminated from the performance monitoring program with approval from ACDEH. Similarly, the monitoring parameters will be evaluated for their usefulness and certain parameters may be eliminated from the program.

The collected data and the bio-barrier remediation performance will be evaluated with each round of monitoring. The results will be reported with the routine groundwater monitoring reports for the site, or under a separate cover when warranted.

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6.0 LIMITATIONS

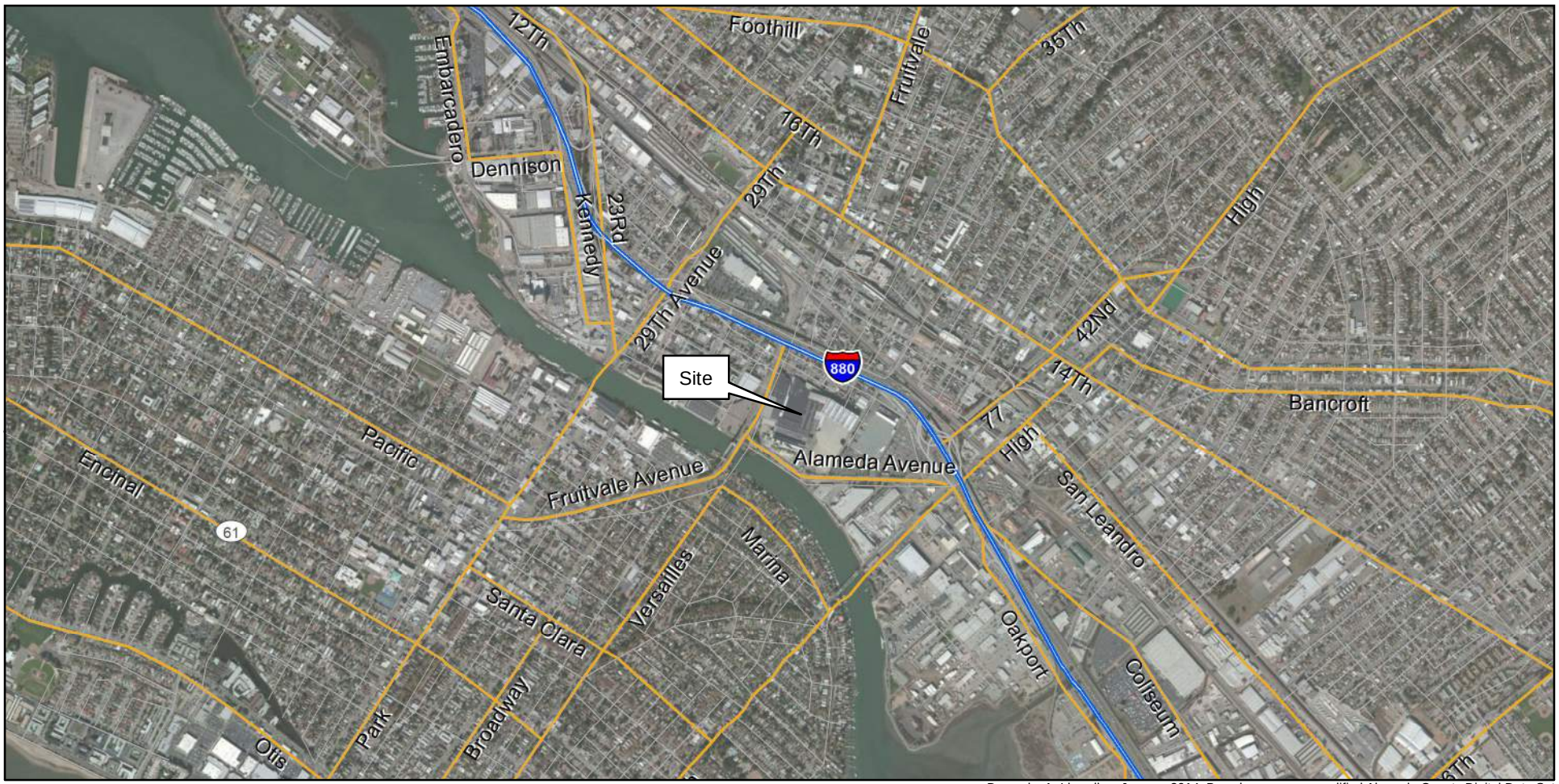
CKG Environmental, Inc. prepared this report in accordance with generally accepted standards of care, which exist in Northern California at this time. It should be recognized that definition and evaluation of geologic and environmental conditions is a difficult and an inexact science.

Conclusions and recommendations presented in this report are based on the results of the scope of work completed for this remediation action and monitoring event. This scope of work includes soil and groundwater sampling, and quantitative analysis of samples conducted by McCampbell Analytical Laboratory. Only work described herein was performed. As such CKG cannot render opinions on issues not resulting directly from the work performed.

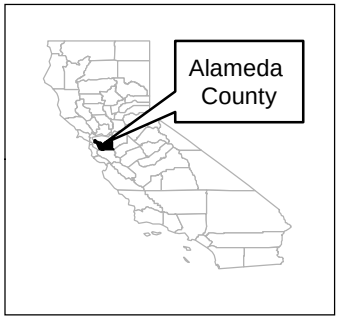
Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present. More extensive studies, including additional subsurface investigations, may be performed to reduce uncertainties. If the client wishes to reduce the uncertainties of 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.

PLATES



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



0 1,000 2,000

Scale in Feet

N

S

CKG Environmental, Inc.

Site Location Map
Owens-Brockway Glass Container Facility
3600 Alameda Avenue, Oakland, California

PLATE
1

Drawn by A. Llewellyn. September 2014. Base layers are ArcGIS Online's Bing Aerial Imagery.

EXPLANATION

- Monitoring Well
- Destroyed Well
- B-E Excavation Area
- Sausal Creek Culvert

0 50 100

Scale in Feet

N

S

CKG Environmental, Inc.

Targeted Excavation Locations Map
Owens-Brockway Glass Container Facility
3600 Alameda Avenue, Oakland California

PLATE 2

ATTACHMENT 1

CONSTRUCTION CLOSEOUT REPORT
TARGETED SOIL EXCAVATIONS B & D,
PETROLEUM HYDROCARBON RELEASES
OWENS-BROCKWAY GLASS CONTAINER FACILITY
3600 ALAMEDA AVENUE

OAKLAND, CALIFORNIA

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A Report Prepared for:

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CONSTRUCTION REPORT OF TARGETED SOIL EXCAVATIONS B & D
PETROLUEM HYDROCARBON RELEASES
OWENS-BROCKWAY GLASS CONTAINER FACILITY
3600 ALAMEDA AVENUE
OAKLAND, CALIFORNIA

November 9, 2014
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PLATES

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APPENDICES

1.0 INTRODUCTION

The following Report of Targeted Excavation presents the actions completed and results obtained from partially implementing the Corrective Action Plan dated November 30, 2010 prepared by CKG Environmental, Inc. (CKG).

CKG implemented the remediation work in partial compliance with the program outlined in the Corrective Action Plan (CAP), dated November 30, 2010. That work plan was approved by Mr. Paresh Khatri of the ACEHD in a letter message dated January 13, 2011. The selected remedial option included targeted excavations at the locations of the original fuel releases.

1.1 PROJECT DESCRIPTION

The project site is the Owens-Brockway Glass Container Corporation at 3600 Alameda Ave Oakland, CA. The facility operates 24 hours per day, although construction activities were limited to 7am to 7pm, in accordance to the City of Oakland's noise ordinances.

Following the active remediation CKG has continued monitoring the groundwater to evaluate the success of the active remediation. Each element of the completed remedy is discussed in further detail below.

The primary constituents of concern are total petroleum hydrocarbons quantified as diesel and as motor oil (TPHd or TPHmo) in soil and shallow groundwater. In the central area of the site the petroleum hydrocarbon of concern is TPHd. At the western side of the site the TPHs are primarily heavy-end hydrocarbons from aged fuel oils. The purpose of the project is to remove TPHg and TPHmo in the impacted soils to the extent practical, dewater the excavation of impacted groundwater as needed to maintain a safe and stable excavation, add oxygen releasing compound (ORC) to the excavations, backfill the excavations, and restore surface conditions.

2.0 SCOPE OF WORK

Field activities for pre-construction data collection, and soil removal at Exc. B and Exc. D are described below. Analytical testing results and other field data are also presented.

2.1 PRE-EXCAVATION PREPARATION

2.1.1 Well Closure and Preprofile Sample Collection

CKG closed MW-2 because it was within the proposed Excavation A (which was not completed). MW-2 was properly closed on May 10, 2011 in accordance with Alameda County Public Works Agency (ACPWA) permitting requirements. The well was closed by drilling out the well bore and grouting to the surface with neat cement. A well destruction log was completed and submitted to the State of California Department of Water Resources as required by law.

At the same time the well was closed CKG utilized the drill rig to install soil borings in the excavation areas. This was a requirement of the Vasco Road disposal facility, which was favored because of its proximity to the site and the reasonable tipping fees. Upon providing Vasco Road with historical data from the site the only analyses they required was for lead. Preprofile soil sample locations are shown on Plate 2. Lead concentrations ranged from not detected to 7.6 mg/kg which was below the landfill acceptance criteria. The analytical report is provided in Appendix A.

2.1.2 Utility Surveys

NRC hired a private utility locator (Cruz brothers) to assess the potential presence of subsurface utilities within the excavations. The effectiveness of the surveys was compromised by the presence of rebar reinforced concrete within the subsurface from former building foundations and other unidentified structures. As a result unexpected utilities were encountered. When this occurred, Cruz Brothers was called out again to help locate the trace of the lines to the extent possible.

2.2 EXCAVATION ACTIVITIES

The following description of excavation activities is presented chronologically and will be augmented with photographs. Plate 2 illustrates the outline of the excavations, and outlines of existing and former structures (buildings, utilities etc.). A photographic log is included in Appendix B.

2.2.1 EXCAVATION D

2.2.1.1 Excavation D Mobilization

Because Owens-Brockway was in the process of rebuilding the D Furnace CKG elected to begin work at Excavation D. On June 7, 2011 NRC mobilized to the site. NRC subcontracted with M.A. McClish Excavating to provide shoring and excavation services. For the first few days the work was limited to staging equipment, saw cutting, and removing the concrete and asphalt at the excavation area. The outline of Excavation D, along with subsurface structures and the locations of confirmation samples are illustrated on Plate 3.

2.2.1.2 Excavation D Excavation and Confirmation Soil Sampling

As soon as the soil was exposed at Excavation D it was apparent that there were a number of subsurface utilities that had not been located previously that would make the work difficult. The main issues were associated with a 10-inch water line (main supply to the plant) which cut off the northwest corner of the excavation and a series of electrical lines housed in a concrete duct bank that cut through the east side of the excavation from north to south (Plate 3 and Figures 1 and 2 in Appendix B). It was also clear that the most heavily impacted soil was underneath the existing lube oil tank. Owens-Brockway decided to have CKG remove the tank to allow access to the most impacted soils. Because of the need to move the tank and the need to install additional shoring to protect the duct bank CKG completed Excavation D in two phases. The second phase was completed after the July 4th holiday. The excavation was extended as far as it was feasible to the north, west and east based on the presence of buildings or utilities. The excavation was extended to the south based on previous soil boring data. Soil confirmation samples were collected to the extent feasible as shown on Plate 3. Samples were submitted to McCampbell Analytical laboratory for analysis of total petroleum hydrocarbons quantified as diesel and gasoline (TPHd and TPHg) by EPA Method 8015, and meth-tert-butyl ether (MTBE); benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260. Soil samples collected after the first phase of excavation also were analyzed for volatile organic constituents (VOCs) by EPA Method 8260 and for semivolatile organic constituents (SVOCs) by EPA Method 8080. Because VOCs and SVOCs were not detected above laboratory reporting limits they were not analyzed in the second phase of excavation. The results of confirmation sampling are summarized on Table 1. Analytical laboratory reports are presented in Appendix A.

Groundwater was encountered at a depth of approximately 11 feet below grade. The water entered the excavation very slowly so it was not possible to remove a significant volume. CKG placed a sump pump in the deepest part of the excavation overnight and pumped the groundwater to the glass plant basement where it was managed with the process water. CKG estimates that only a few hundred gallons of water were recovered at each phase before the excavations had to be backfilled.

After each phase of excavation CKG placed a slurry of the oxygen releasing reagent, Oxygen Release Compound (ORC Advanced®) manufactured by Regenesis. ORC Advanced is a proprietary formulation of food grade calcium oxy-hydroxide that produces a controlled release of molecular oxygen to the subsurface for a period of up to 12 months. ORC was placed at

approximately 1.5 pounds per square foot of excavation area. The slurry was mixed into an approximately two-foot lift of drain rock placed on the floor of the excavation (Figure 3 in Appendix B). In total CKG placed 8,069 pounds of ORC at Excavation D.

Soil excavated from Excavation D was stockpiled temporarily on site. This was necessary because the data collected in 2009 showed that TPHg concentrations exceeded the disposal facility limit of 50 mg/kg. Soil was stockpiled to allow the lighter fraction hydrocarbons to dissipate and bring the TPHg concentration below 50 mg/kg. CKG collected two four-point composite samples from the stockpile after each phase of excavation. The composite samples were submitted to Analytical Sciences of Petaluma, California and McCampbell Analytical Laboratory for analysis of TPHg. In both cases the TPHg was detected below 50 mg/kg which was then acceptable to the Vasco Road Landfill (Table 2). A total of 2,988.24 tons of material from Excavation D was disposed at Vasco Road. Copies of shipping papers for this disposal are available and will be provided upon request.

2.2.1.3 Excavation D Backfill

After the drain rock and ORC was in place geotextile fabric was placed on top. By the end of June the excavation was backfilled with the clean soil obtained from the Caldecott Tunnel project in Oakland. The material was compacted using a sheepsfoot (Figure 4 in Appendix B). Compaction was tested by Testing Engineers of Hayward, California using a nuclear gauge. Compaction exceeded 95% in all tests. Copies of compaction test reports are provided in Appendix C.

2.2.2 Excavation B

2.2.2.1 Excavation B Mobilization

CKG mobilized to the vicinity of Western UST Area on July 11, 2012. The next week was spent preparing the area for excavation, relocating Owens-Brockway equipment and cullet, demolishing the cullet bunker and existing asphalt, and establishing the temporary cullet storage area. CKG then started installing shoring and locating subsurface utilities. As with Excavation D there were a number of subsurface utilities and unknown subsurface structures encountered that were not located through the utility survey. Subsurface utilities are shown on Plate 4. Of particular difficulty was the accurate location of the active 12-inch high pressure gas line, and the discovery of an older 12-inch gas line whose status could not be confirmed until both ends were exposed and its trace revealed (Figure 5 in Appendix B). Another previously unknown feature encountered was a brick bunker that appeared to have been used to store fuel oil (Figure 6 in Appendix B). The bunker was approximately 22 feet wide and 56 feet long. The top had been made of redwood and there was approximately 1.5 feet of residual tar at the bottom. The location of the brick bunker is shown on Plate 4. The bunker had been filled with debris and paved over in the past. CKG did not remove the bunker. A secondary water supply line had to be removed temporarily and was replaced after excavation activities were completed (Plate 4).

2.2.2.2 Excavation B Soil Excavation

CKG began by excavating soil south of the gas line as shown on Plate 4. The excavation was extended to a depth of approximately 12 feet with no groundwater encountered. CKG deepened the excavation in a limited area at the east end of the excavation to locate groundwater, but none was observed by 15 feet below grade (Figure 6 in Appendix B). CKG continued to pothole to a depth of 20 feet at one location and still no groundwater entered the pothole. CKG observed that the soil was very strongly stained with a very strong odor. Free petroleum hydrocarbon product was observed to seep very slowly out of the soil in a few locations (Figure 7 in Appendix B). CKG speculates that the subsurface was so strongly affected by aged fuel oil that it had sealed up the porosity locally so that groundwater did not flow in that area. Given the discovery of such strong impact by petroleum hydrocarbons and the time that would be required to finish the work Owens-Brockway decided to halt further excavation work and restore the site as discussed in Section 3.2.

It was not necessary to stockpile the excavated soil from Excavation B because previous investigations showed that TPHg concentrations were below Vasco Road limitations. Excavated soil was loaded directly into trucks and was hauled to the Vasco Road Facility in Livermore. In total 2,834.45 tons of soil was removed from Excavation B.

CKG placed a slurry of ORC Advanced® mixed into an approximately two-foot lift of drain rock placed on the floor of the excavation. The lift was thicker in the area that had been potholed (Figure 9 in Appendix B). In total CKG placed 5,550 pounds of ORC at Excavation B.

2.2.2.3 Excavation D Backfill

After the drain rock and ORC was in place geotextile fabric was placed on top. By about August 26, 2011 the excavation was backfilled with the clean soil obtained from the Caldecott Tunnel project in Oakland. The material was compacted using a sheepsfoot. Compaction was tested by Testing Engineers of Hayward, California using a nuclear gauge. Compaction exceeded 95% in all tests. Copies of compaction test reports are provided in Appendix C.

2.2.3 Site Restoration

Backfill activities were completed by August 26. Upon completion, the contractor removed the sheetpiles and all other nonessential equipment. To prepare the grade for reconstruction it was necessary to remove some stained soil and a large amount of subsurface concrete debris from former structures. It was also necessary to bring the surface to grade with clean compacted soil. Figure 10 in Appendix B).

The area of the former cullet bunkers (Excavation B) was paved with concrete and new cullet bunkers constructed. Excavation Area D was paved with asphalt (Figure 10, Appendix B).

TABLES

Table 1 - Excavation D Confirmation Sample Results
Oakland, California

Sample ID	Sample Depth (ft/bgs)	Date Sampled	TPHg	TPHd	MTBE	Benzene	Toluene	Ethylbenzene	Xylene	VOCs	SVOCs
DS1	7	6/13/2011	110[1,2]	2,000[5,6]	-	-	-	-	-	-	-
DW1	7	6/13/2011	2.4[1]	47[5,6]	-	-	-	-	-	ND<0.005-ND<0.1	ND<0.66-ND<1.6
DN1	7.5	6/13/2011	ND	ND	-	-	-	-	-	ND<0.005-ND<0.1	ND<0.66-ND<1.6
DW2	8	6/14/2011	1,400[1,2]	1,300[3,7]	-	-	-	-	-	-	-
DS2	7	6/14/2011	ND	2.4[4]	-	-	-	-	-	ND<0.005-ND<0.1	ND<0.66-ND<1.6
DE/N	7	6/15/2011	30[1]	6,200[5,6]	-	-	-	-	-	ND<0.005-ND<0.1	ND<16-ND<80
DE/S	7	6/15/2011	ND	3.1[4,6]	-	-	-	-	-	-	-
DW3	8	7/13/2011	90[1,2]	1,400[4,6]	ND<0.50	ND<0.05	0.22	ND<0.05	0.2	-	-
DW5	8	7/13/2011	110[1,2]	480[3]	ND<0.50	ND<0.05	ND<0.05	ND<0.05	0.3	-	-
DS4	8.5	7/14/2011	110[1,2]	450[3]	ND<0.50	ND<0.05	ND<0.05	ND<0.05	0.19	-	-
DE3	7.5	7/14/2011	ND<1	33[5]	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	-	-

All results in mg/kg

FOOTNOTES

[1] Strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

[2] No recognizable pattern

[3] Unmodified or weakly modified diesel is significant

[4] Diesel range compounds are significant, no recognizable pattern

[5] Aged diesel is significant

[6] Oil range compounds are significant

[7] Stoddard solvent/mineral spirit (?)

ABBREVIATION

VOCs - Volatile Organic Compounds

SVOCs - Semi-Volatile Organic Compounds

MTBE - Methyl-t-butyl ether

TPHg,d,mo - Total Petroleum Hydrocarbons as gasoline, diesel, and motor oil

Table 2 - Stockpile Analytical Results
Oakland, California

Sample ID	Date Sampled	TPHg	TPHd	TPHmo	MTBE	Benzene	Toluene	Ethylbenzene	Xylene	Lead
SPD (A+B+C+D)	6/27/2011	8.2	540	370	-	ND<0.01	ND<0.01	ND<0.01	ND<0.03	6
SPD2 (A+B+C+D)	7/25/2011	16[1,2]	180[3]	220[4]	ND<0.1	ND<0.01	0.013	ND<0.01	0.051	5.6
SPD (E+F+G+H)	6/27/2011	14	250	150	-	ND<0.01	ND<0.01	ND<0.01	ND<0.03	6.8
SPD2 (E+F+G+H)	7/25/2011	8.31	170	260	ND<0.05	ND<0.055	ND<0.055	ND<0.055	0.026	5.7

All results in mg/kg

FOOTNOTES

[1] Strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

[2] No recognizable pattern

[3] Diesel range compounds are significant, no recognizable pattern

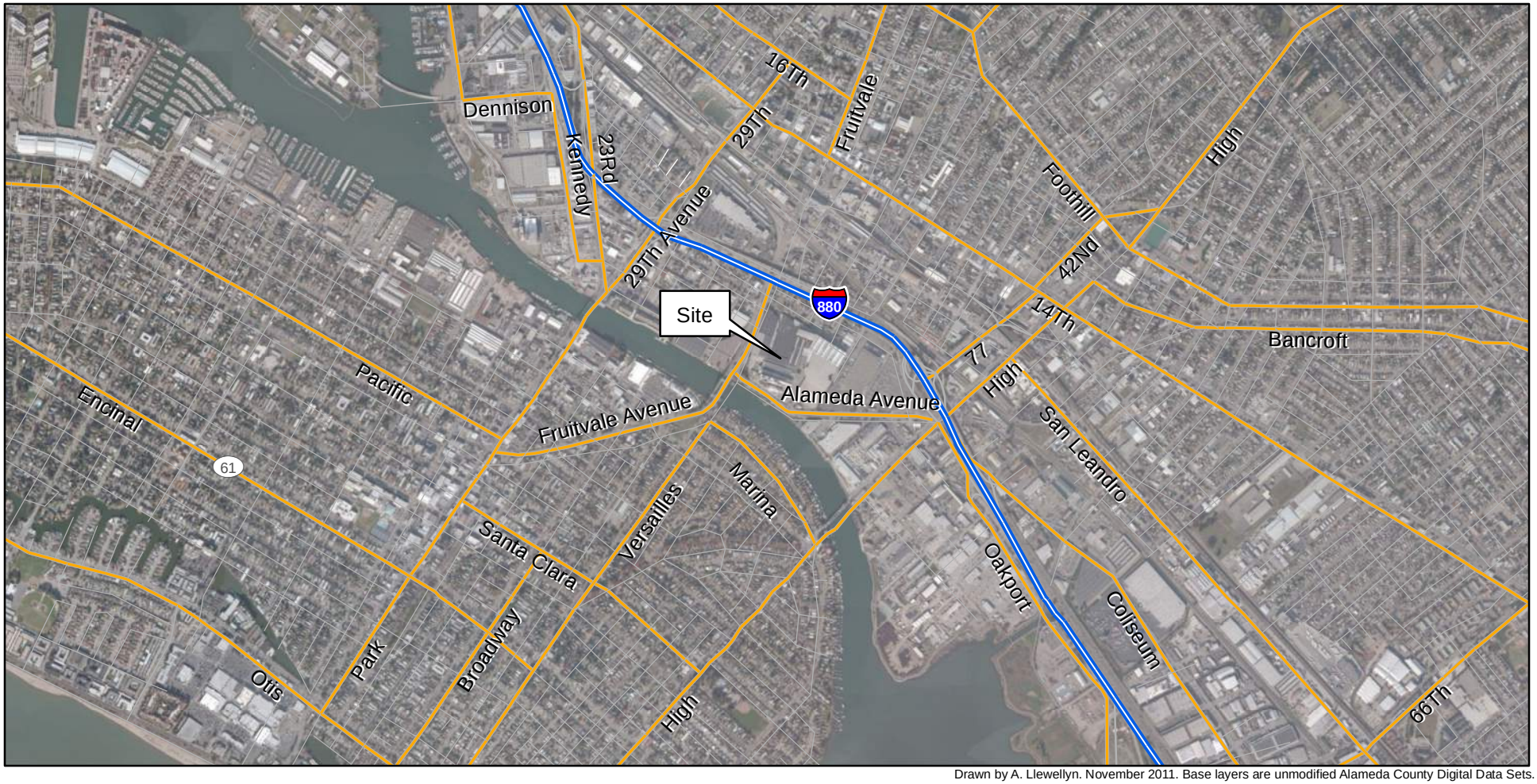
[4] Oil range compounds are significant

ABBREVIATION

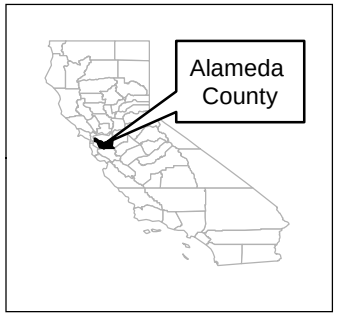
MTBE - Methyl-t-butyl ether

TPHg,d,mo - Total Petroleum Hydrocarbons as gasoline, diesel, and motor oil

PLATES



Drawn by A. Llewellyn. November 2011. Base layers are unmodified Alameda County Digital Data Sets.



0 1,000 2,000

Scale in Feet

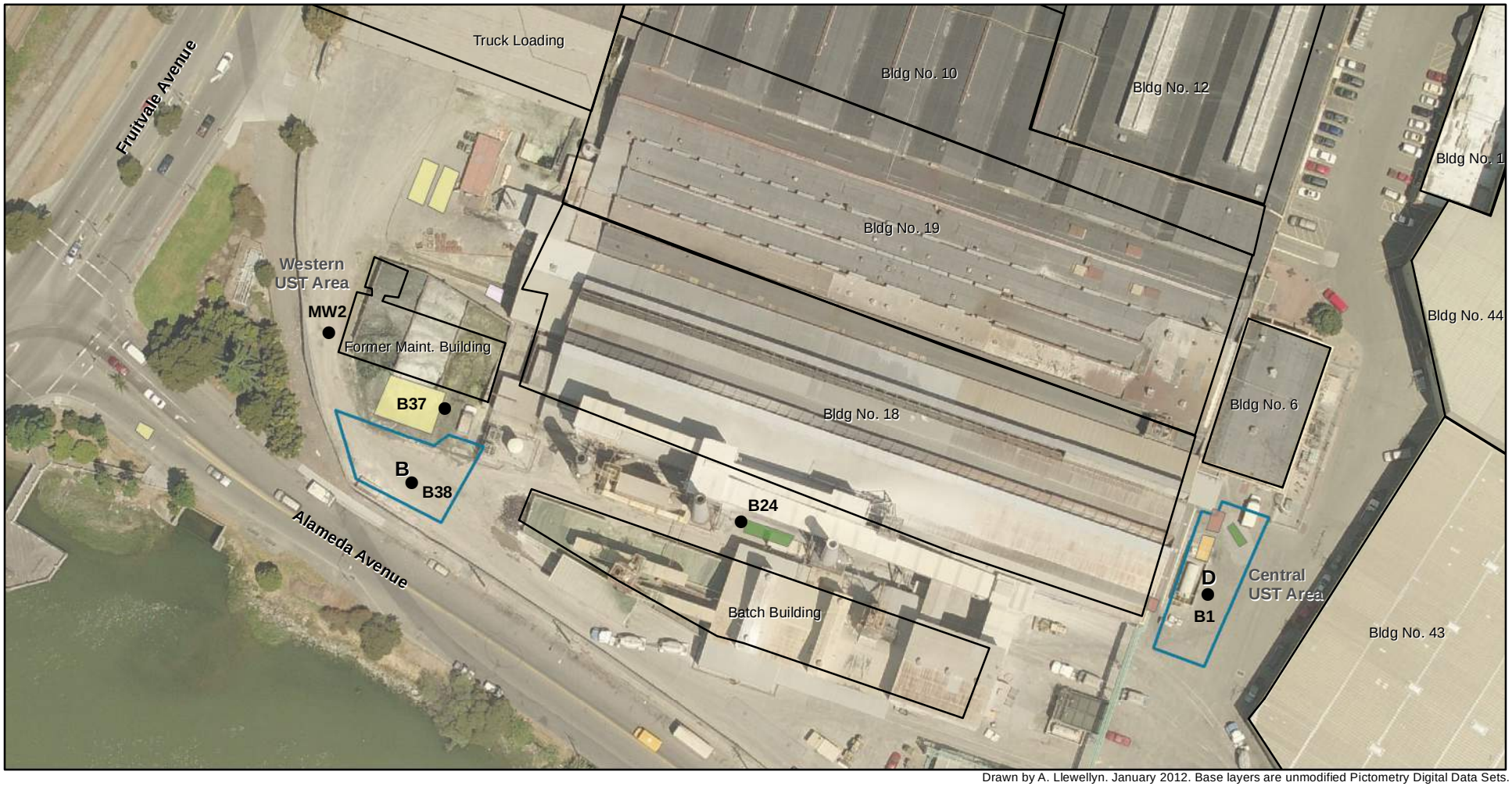
N

S

CKG Environmental, Inc.

Site Location Map
Owens-Brockway Glass Container Facility
3600 Alameda Avenue, Oakland, California

PLATE
1



Drawn by A. Llewellyn. January 2012. Base layers are unmodified Pictometry Digital Data Sets.

EXPLANATION

- Preprofile Sample Location
- Excavation Area
- Building

Former USTs

- Diesel
- Fuel Oil
- Gasoline
- Lube Oil
- Waste Oil

0 50 100

Scale in Feet

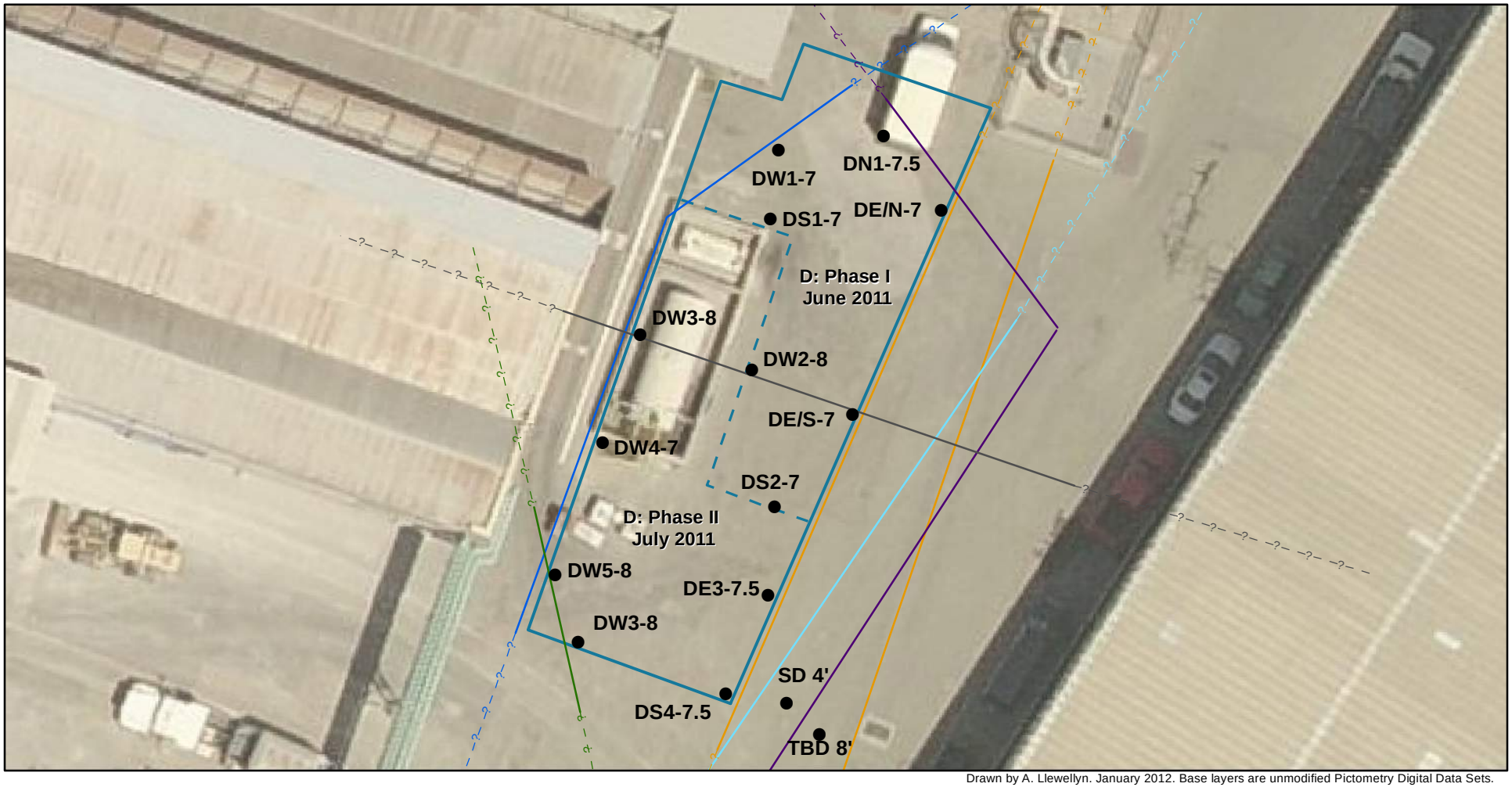
N

S

CKG Environmental, Inc.

Soil Excavation Area Map
Owens-Brockway Glass Container Facility
3600 Alameda Avenue, Oakland California

PLATE
2



Drawn by A. Llewellyn. January 2012. Base layers are unmodified Pictometry Digital Data Sets.

EXPLANATION

- Sample Location
- Excavation Area

Utility Lines

- Electrical
- Metal Utility (Removed)
- Pipe (?)
- Sanitary Sewer
- Storm Drain
- Water Line
- Separation of Excavation

0 12.5 25

Scale in Feet

N

S

CKG Environmental, Inc.

Excavation D Detail Map
Owens-Brockway Glass Container Facility
3600 Alameda Avenue, Oakland California

PLATE
3

Drawn by A. Llewellyn. January 2012. Base layers are unmodified Pictometry Digital Data Sets.

EXPLANATION

- Brick Bunker
- Excavation Area

Utility Lines

- Gas Line
- Abandoned Gas Line
- New Water Supply Line
- Secondary Water Supply Line (replaced)
- Unknown

0 37.5 75

Scale in Feet

N

S

CKG Environmental, Inc.

Excavation B Detail Map
Owens-Brockway Glass Container Facility
3600 Alameda Avenue, Oakland California

PLATE
4

APPENDIX A

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CKG Environmental	Client Project ID: OB Oakland	Date Sampled: 05/10/11
		Date Received: 05/11/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Reported: 05/17/11
St. Helena, CA 94574	Client P.O.:	Date Completed: 05/17/11

WorkOrder: 1105305

May 17, 2011

Dear Chris:

Enclosed within are:

1) The results of the **4** analyzed samples from your project: **OB Oakland,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

110530S

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Chris Kennedy Bill To:

Company: CKG Environmental, Inc.

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

E-Mail: ckennedy@geologist.com

Tele: (707) 967 8080 Fax: (707) 967 8080

Project #: Project Name: OB OAKLAND

Project Location:

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; 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 (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Other	Comments
MW2 5'	MW2	5/10/11					X				X																							
MW2 10'	MW2			3																										X			A	
MW2 12'	MW2																																	
B38 5'	B38																																	
B38 10'	B38																																	
B38 12'	B38																																	
B37 5'	B37																													X			B	
B37 10'	B37																																	
B37 12'	B37																																	

**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.

Relinquished By:	Date:	Time:	Received By:
	5/11/11	11:46	
Relinquished By:	Date:	Time:	Received By:
	5/11/11	1445	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.8°C ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER
PRESERVATION pH<2

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Chris Kennedy Bill To:

Company: CKG Environmental, Inc.

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

E-Mail: ckennedy@geologist.com

Tele: (707) 967 8080 Fax: (707) 967 8080

Project #: Project Name: OB OAKLAND

Project Location:

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; 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 (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Comments
B24 5'	B24	5/10/11					X				X																					
B24 10' } C	↓	↓		2			↓				↓																			X		C
B24 12' }	↓	↓					↓				↓																			↓		
B1 5'	B1	↓					↓				↓																			↓		
B1 10' } D	↓	↓					↓				↓																			↓		
B1 12' }	↓	↓		2			↓				↓																			X		D

Analysis Request | Other | Comments

Other: Filter sample for DISSOLVED metals analysis

Comments: **Indicate here if these samples are potentially dangerous to handle:

**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.

Relinquished By:	Date:	Time:	Received By:
	5/11/11	11:46	
Relinquished By:	Date:	Time:	Received By:
	5/11/11	945	
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____ COMMENTS:

GOOD CONDITION_____

HEAD SPACE ABSENT_____

DECHLORINATED IN LAB_____

APPROPRIATE CONTAINERS_____

PRESERVED IN LAB_____

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1105305 **ClientCode: CKGS**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

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

Email: ckennedy@geologist.com
cc:
PO:
ProjectNo: OB Oakland

Bill to:
Accounts Payable
CKG Environmental
808 Zinfindel Lane
St. Helena, CA 94574

Requested TAT: 5 days

Date Received: **05/11/2011**
Date Printed: **05/11/2011**

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
1105305-001	A	Soil	5/10/2011	☐	A											
1105305-003	B	Soil	5/10/2011	☐	A											
1105305-006	C	Soil	5/10/2011	☐	A											
1105305-008	D	Soil	5/10/2011	☐	A											

Test Legend:

1	PB_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

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.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **CKG Environmental**

Date and Time Received: **5/11/2011 3:53:33 PM**

Project Name: **OB Oakland**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **1105305** Matrix Soil

Carrier: Rob Pringle (MAI Courier)

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 ☐	
Container/Temp Blank temperature	Cooler Temp: 5.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

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

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CKG Environmental	Client Project ID: OB Oakland	Date Sampled: 05/10/11
		Date Received: 05/11/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Extracted: 05/11/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 05/16/11

Lead by ICP*

Extraction method: SW3050B Analytical methods: SW6010B Work Order: 1105305

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
1105305-001A	A	S	TOTAL	5.7	1	106	
1105305-003A	B	S	TOTAL	7.8	1	102	
1105305-006A	C	S	TOTAL	ND	1	99	
1105305-008A	D	S	TOTAL	6.6	1	101	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	TOTAL	5.0	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1105305

EPA Method SW6010B	Extraction SW3050B	BatchID: 58296	Spiked Sample ID: 1105305-008A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	6.6	50	102	103	0.950	10	108	101	6.22	75 - 125	25	75 - 125	25
%SS:	101	500	107	100	6.79	500	106	100	5.24	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 58296 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1105305-001A	05/10/11	05/11/11	05/16/11 10:54 AM	1105305-003A	05/10/11	05/11/11	05/16/11 10:57 AM
1105305-006A	05/10/11	05/11/11	05/16/11 11:01 AM	1105305-008A	05/10/11	05/11/11	05/16/11 10:31 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 227460
ANALYTICAL REPORT

Construction Testing Services	Project : J6950 CALDECOTT
2174 Rheem Drive	Location : Caldecott Tunnel
Pleasanton, CA 94588	Level : II

Sample ID	Lab ID
STK01E-42211-GRAB	227460-001
STK01E-42211-COMP	227460-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 04/25/2011
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**227460**
Client:	**Construction Testing Services**
Project:	**J6950 CALDECOTT**
Location:	**Caldecott Tunnel**
Request Date:	**04/22/11**
Samples Received:	**04/22/11**

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 04/22/11. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recovery was observed for barium in the MSD for batch 174062; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. High recoveries were observed for lead in the MS/MSD for batch 174062; the BS/BSD were within limits, and the associated RPD was within limits. High RPD was observed for copper; the RPD was acceptable in the BS/BSD. No other analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody #

C&T LOGIN # 227460

Project No: J6950 (CTS)
Project Name: Caldecott Tunnel
Project P. O. No: J6950
EDD Format: Report Level ☑ II ☐ III ☐ IV
Turnaround Time: ☑ RUSH 24hr ☐ Standard

Sampler: Robert Williams
Report To: Yate Chhoun
Company: CTS, Inc
Telephone: 925-462-5151
Email: ychhoun@cts-1.com

Lab No.	Sample ID.	SAMPLING		MATRIX				# of Containers	CHEMICAL PRESERVATIVE						ANALYTICAL REQUEST		
		Date Collected	Time Collected	Water	Solid				HCl	H2SO4	HNO3	NaOH	None	4°C	TPH Btex by 8015 & 8021	TPH motor oil/diesel 8015	Cam 17 metals
1	StK01E-42211-Grab	4-22-11	1040		X			4 4oz jars							X		
2	StK01E-42211-Comp	4-22-11	1100		X			1 8oz jar								X	
	StK01E-4221-Comp	4-22-11	1100		X			1 8oz jar									X

Notes:

SAMPLE RECEIPT
☑ Intact
☒ Cold
☑ On Ice
☐ Ambient

RELINQUISHED BY:
Robt Williams 4/22/11 DATE: TIME: 1220
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 4/22 TIME: 1220
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 227460 Date Received 4/22/11 Number of coolers 1
Client CTS Project CALDECOTT TUNNEL

Date Opened 4/22/11 By (print) M. VILLANUEVA (sign)
Date Logged in 4/22/11 By (print) (sign)

1. Did cooler come with a shipping slip (airbill, etc) YES NO
   Shipping info
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☑ NO
   How many Name Date
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C)

☑ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in tbe appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES NO
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? YES NO N/A
15. Did you check preservatives for all bottles for each sample? YES NO N/A
16. Did you document your preservative check YES NO N/A
17. Are bubbles > 6mm absent in VOA samples? YES NO N/A
18. Was the client contacted concerning this sample delivery? YES NO
   If YES, Who was called? By Date:

COMMENTS

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	EPA 5030B
Project#:	J6950 CALDECOTT		
Field ID:	STK01E-42211-GRAB	Batch#:	174085
Matrix:	Soil	Sampled:	04/22/11
Basis:	as received	Received:	04/22/11
Diln Fac:	1.000	Analyzed:	04/25/11

Type: SAMPLE Lab ID: 227460-001

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.1	mg/Kg	EPA 8015B
Benzene	ND	5.5	ug/Kg	EPA 8021B
Toluene	ND	5.5	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.5	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.5	ug/Kg	EPA 8021B
o-Xylene	ND	5.5	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	104	67-140	EPA 8015B
Bromofluorobenzene (PID)	104	45-125	EPA 8021B

Type: BLANK Lab ID: QC588948

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.0	ug/Kg	EPA 8021B
Toluene	ND	5.0	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.0	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.0	ug/Kg	EPA 8021B
o-Xylene	ND	5.0	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	102	67-140	EPA 8015B
Bromofluorobenzene (PID)	103	45-125	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	EPA 5030B
Project#:	J6950 CALDECOTT		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC588949	Batch#:	174085
Matrix:	Soil	Analyzed:	04/25/11
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	1.000	0.9965	100	79-121	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	112	67-140	EPA 8015B
Bromofluorobenzene (PID)	113	45-125	EPA 8021B

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	EPA 5030B
Project#:	J6950 CALDECOTT		
Matrix:	Soil	Batch#:	174085
Units:	ug/Kg	Analyzed:	04/25/11
Diln Fac:	1.000		

Type: BS Lab ID: QC588950

Analyte	Spiked	Result	%REC	Limits	Analysis
Benzene	10.00	9.814	98	72-125	EPA 8021B
Toluene	10.00	10.14	101	74-124	EPA 8021B
Ethylbenzene	10.00	10.23	102	73-125	EPA 8021B
m,p-Xylenes	10.00	10.07	101	74-126	EPA 8021B
o-Xylene	10.00	10.14	101	71-128	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	103	67-140	EPA 8015B
Bromofluorobenzene (PID)	103	45-125	EPA 8021B

Type: BSD Lab ID: QC588951

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Benzene	10.00	9.960	100	72-125	1	20	EPA 8021B
Toluene	10.00	9.685	97	74-124	5	24	EPA 8021B
Ethylbenzene	10.00	10.07	101	73-125	2	20	EPA 8021B
m,p-Xylenes	10.00	9.900	99	74-126	2	20	EPA 8021B
o-Xylene	10.00	9.670	97	71-128	5	20	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	103	67-140	EPA 8015B
Bromofluorobenzene (PID)	104	45-125	EPA 8021B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	SHAKER TABLE
Project#:	J6950 CALDECOTT	Analysis:	EPA 8015B
Field ID:	STK01E-42211-COMP	Batch#:	174033
Matrix:	Soil	Sampled:	04/22/11
Units:	mg/Kg	Received:	04/22/11
Basis:	as received	Prepared:	04/22/11
Diln Fac:	1.000	Analyzed:	04/25/11

Type: SAMPLE Lab ID: 227460-002

Analyte	Result	RL
Diesel C10-C24	32	1.0
Motor Oil C24-C36	75	5.0

Surrogate	%REC	Limits
o-Terphenyl	100	52-130

Type: BLANK Lab ID: QC588756

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	105	52-130

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	SHAKER TABLE
Project#:	J6950 CALDECOTT	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC588757	Batch#:	174033
Matrix:	Soil	Prepared:	04/22/11
Units:	mg/Kg	Analyzed:	04/25/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.79	41.31	83	44-151

Surrogate	%REC	Limits
o-Terphenyl	98	52-130

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	SHAKER TABLE
Project#:	J6950 CALDECOTT	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	174033
MSS Lab ID:	227425-012	Sampled:	04/21/11
Matrix:	Soil	Received:	04/21/11
Units:	mg/Kg	Prepared:	04/22/11
Basis:	as received	Analyzed:	04/25/11
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC588758

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	1.236	49.81	36.10	70	39-146

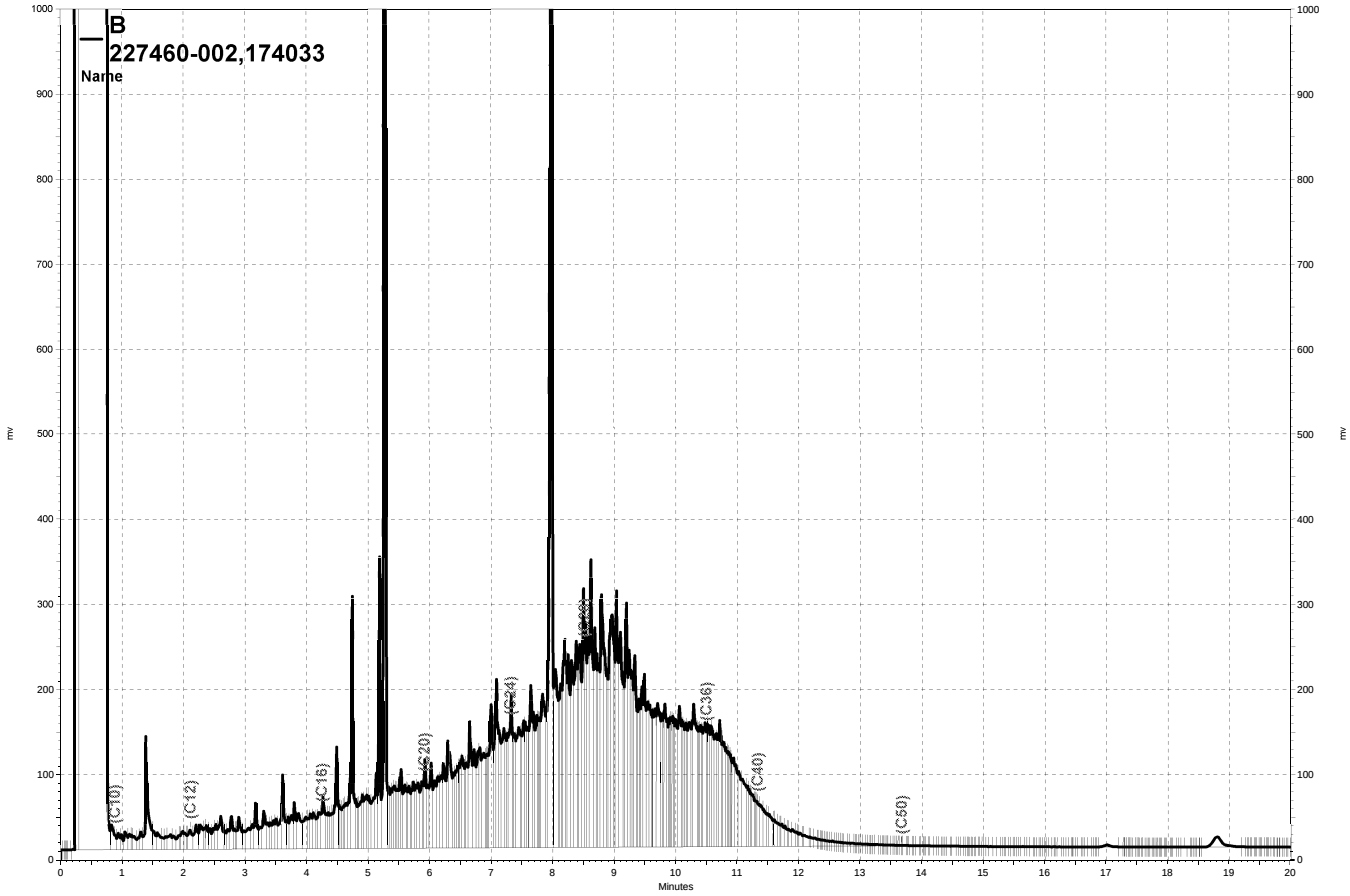
Surrogate	%REC	Limits
o-Terphenyl	84	52-130

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC588759

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.82	43.31	84	39-146	18	61

Surrogate	%REC	Limits
o-Terphenyl	100	52-130

RPD= Relative Percent Difference



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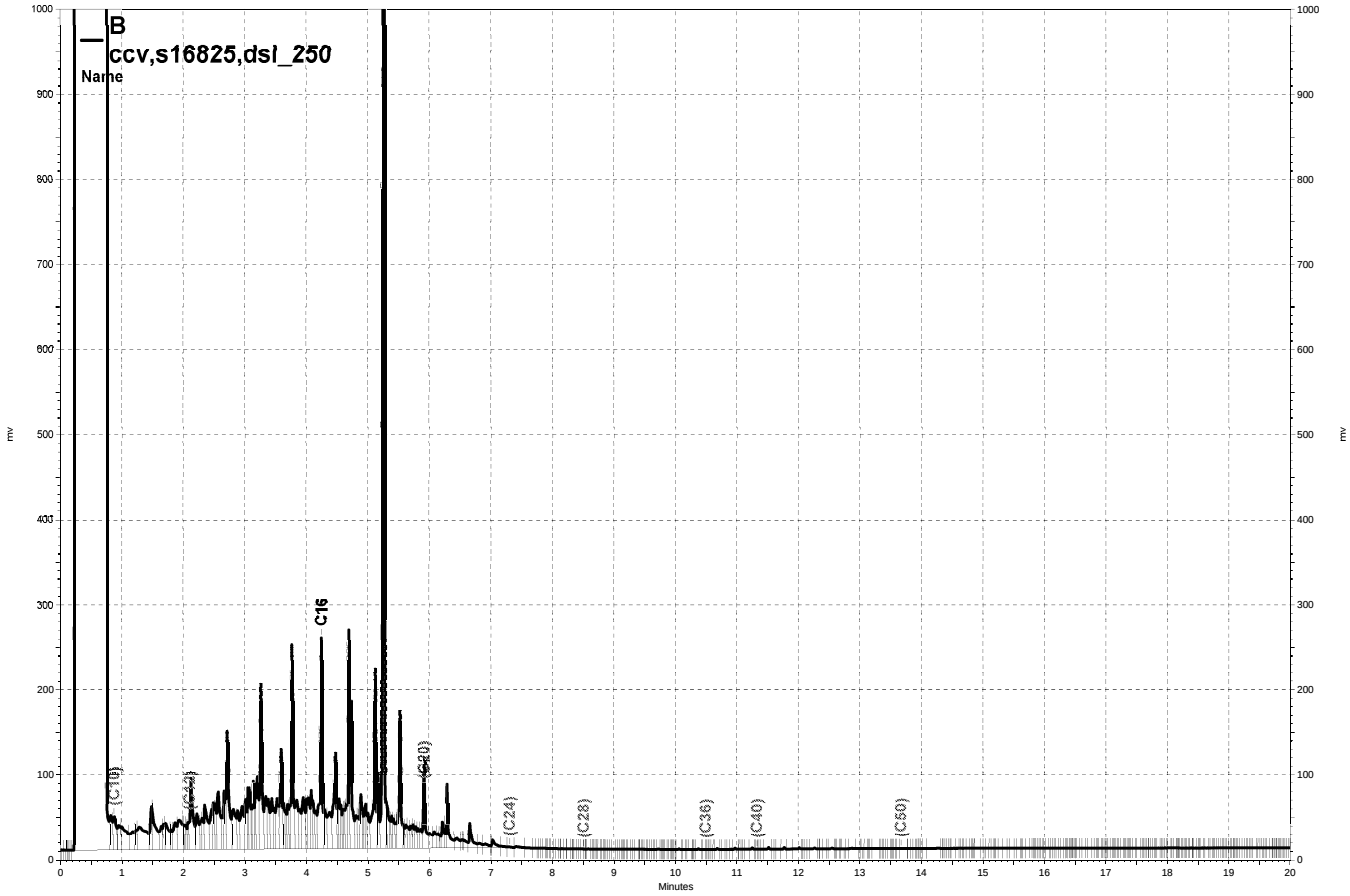

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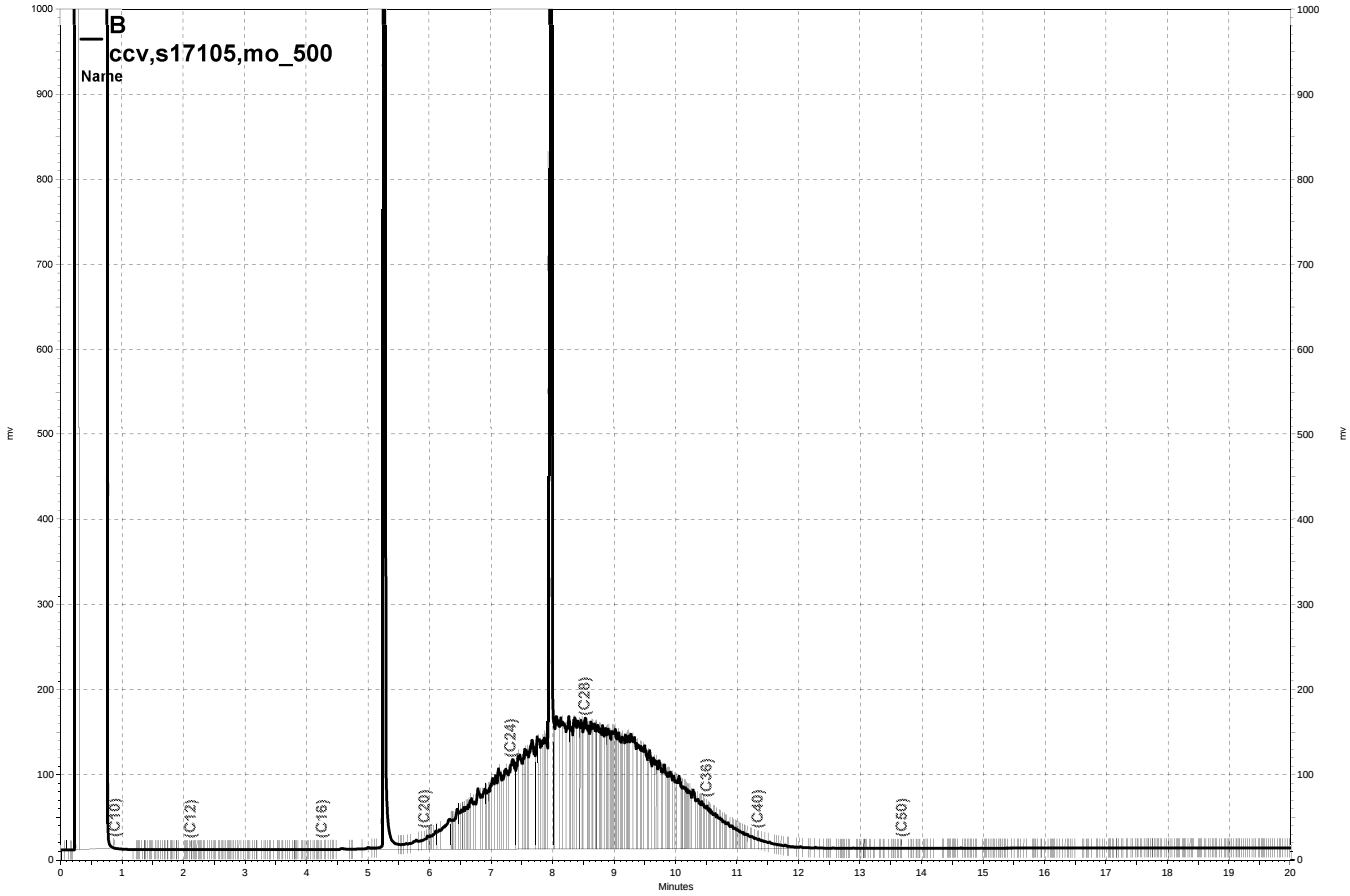

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Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	227460	Project#:	J6950 CALDECOTT
Client:	Construction Testing Services	Location:	Caldecott Tunnel
Field ID:	STK01E-42211-COMP	Diln Fac:	1.000
Lab ID:	227460-002	Sampled:	04/22/11
Matrix:	Soil	Received:	04/22/11
Units:	mg/Kg	Prepared:	04/25/11
Basis:	as received	Analyzed:	04/25/11

Analyte	Result	RL	Batch#	Prep	Analysis
Antimony	ND	0.50	174062	EPA 3050B	EPA 6010B
Arsenic	6.8	0.25	174062	EPA 3050B	EPA 6010B
Barium	100	0.25	174062	EPA 3050B	EPA 6010B
Beryllium	0.26	0.10	174062	EPA 3050B	EPA 6010B
Cadmium	2.6	0.25	174062	EPA 3050B	EPA 6010B
Chromium	10	0.25	174062	EPA 3050B	EPA 6010B
Cobalt	3.4	0.25	174062	EPA 3050B	EPA 6010B
Copper	22	0.25	174062	EPA 3050B	EPA 6010B
Lead	2.6	0.25	174062	EPA 3050B	EPA 6010B
Mercury	ND	0.020	174087	METHOD	EPA 7471A
Molybdenum	5.7	0.25	174062	EPA 3050B	EPA 6010B
Nickel	36	0.25	174062	EPA 3050B	EPA 6010B
Selenium	2.0	0.50	174062	EPA 3050B	EPA 6010B
Silver	0.62	0.25	174062	EPA 3050B	EPA 6010B
Thallium	1.2	0.50	174062	EPA 3050B	EPA 6010B
Vanadium	16	0.25	174062	EPA 3050B	EPA 6010B
Zinc	66	1.0	174062	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	EPA 3050B
Project#:	J6950 CALDECOTT	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC588863	Batch#:	174062
Matrix:	Soil	Prepared:	04/25/11
Units:	mg/Kg	Analyzed:	04/25/11

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	EPA 3050B
Project#:	J6950 CALDECOTT	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	174062
Units:	mg/Kg	Prepared:	04/25/11
Diln Fac:	1.000	Analyzed:	04/25/11

Type: BS Lab ID: QC588864

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	101.0	101	80-120
Arsenic	50.00	54.19	108	80-120
Barium	100.0	99.98	100	80-120
Beryllium	2.500	2.650	106	80-120
Cadmium	10.00	10.36	104	80-120
Chromium	100.0	100.5	100	80-120
Cobalt	25.00	24.74	99	80-120
Copper	12.50	13.06	104	78-120
Lead	100.0	100.9	101	80-120
Molybdenum	20.00	20.29	101	80-120
Nickel	25.00	24.89	100	80-120
Selenium	50.00	49.54	99	80-120
Silver	10.00	8.922	89	80-120
Thallium	50.00	50.72	101	80-120
Vanadium	25.00	25.61	102	80-120
Zinc	25.00	25.49	102	80-120

Type: BSD Lab ID: QC588865

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	97.99	98	80-120	3	20
Arsenic	50.00	52.56	105	80-120	3	20
Barium	100.0	97.49	97	80-120	3	20
Beryllium	2.500	2.555	102	80-120	4	20
Cadmium	10.00	10.05	100	80-120	3	20
Chromium	100.0	97.73	98	80-120	3	20
Cobalt	25.00	24.05	96	80-120	3	20
Copper	12.50	12.54	100	78-120	4	20
Lead	100.0	98.06	98	80-120	3	20
Molybdenum	20.00	19.82	99	80-120	2	20
Nickel	25.00	24.17	97	80-120	3	20
Selenium	50.00	48.29	97	80-120	3	20
Silver	10.00	8.705	87	80-120	2	20
Thallium	50.00	49.20	98	80-120	3	20
Vanadium	25.00	24.93	100	80-120	3	20
Zinc	25.00	24.77	99	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	EPA 3050B
Project#:	J6950 CALDECOTT	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	174062
MSS Lab ID:	227365-001	Sampled:	04/19/11
Matrix:	Soil	Received:	04/19/11
Units:	mg/Kg	Prepared:	04/25/11
Basis:	as received	Analyzed:	04/25/11

Type: MS Lab ID: QC588866

Analyte	MSS Result	Spiked	Result	%REC	Limits	Dil'n Fac
Antimony	0.6090	100.0	20.23	20	7-120	1.000
Arsenic	3.971	50.00	55.96	104	66-122	1.000
Barium	161.4	100.0	212.2	51	51-135	1.000
Beryllium	0.2353	2.500	2.707	99	73-120	1.000
Cadmium	0.2081	10.00	9.414	92	64-120	1.000
Chromium	232.6	100.0	301.9	69	57-122	1.000
Cobalt	40.56	25.00	59.53	76	53-122	1.000
Copper	207.4	12.50	193.3	-113 NM	33-157	1.000
Lead	283.0	100.0	682.4	399 *	52-123	10.00
Molybdenum	<0.04523	20.00	16.97	85	66-120	1.000
Nickel	745.3	25.00	588.5 >LR	-627 NM	42-137	1.000
Selenium	<0.1479	50.00	46.38	93	64-120	1.000
Silver	<0.03692	10.00	9.209	92	65-120	1.000
Thallium	0.4684	50.00	48.76	97	55-120	1.000
Vanadium	40.79	25.00	62.46	87	49-139	1.000
Zinc	97.87	25.00	123.4	102	32-155	1.000

Type: MSD Lab ID: QC588867

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Dil'n Fac
Antimony	90.09	14.89	16	7-120	20	44	1.000
Arsenic	45.05	50.76	104	66-122	0	35	1.000
Barium	90.09	192.6	35 *	51-135	6	42	1.000
Beryllium	2.252	2.439	98	73-120	1	22	1.000
Cadmium	9.009	8.379	91	64-120	1	36	1.000
Chromium	90.09	314.5	91	57-122	7	34	1.000
Cobalt	22.52	64.99	108	53-122	13	32	1.000
Copper	11.26	350.7	1273 NM	33-157	58 *	41	1.000
Lead	90.09	579.8	329 *	52-123	14	41	10.00
Molybdenum	18.02	15.19	84	66-120	1	20	1.000
Nickel	22.52	693.1 >LR	-232 NM	42-137	NC	36	1.000
Selenium	45.05	41.38	92	64-120	1	28	1.000
Silver	9.009	8.366	93	65-120	1	27	1.000
Thallium	45.05	43.17	95	55-120	2	27	1.000
Vanadium	22.52	60.66	88	49-139	1	32	1.000
Zinc	22.52	104.6	30 NM	32-155	14	45	1.000

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	METHOD
Project#:	J6950 CALDECOTT	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	174087
Lab ID:	QC588961	Prepared:	04/25/11
Matrix:	Soil	Analyzed:	04/25/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	METHOD
Project#:	J6950 CALDECOTT	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	174087
Matrix:	Soil	Prepared:	04/25/11
Units:	mg/Kg	Analyzed:	04/25/11
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC588962	0.2500	0.2690	108	80-120		
BSD	QC588963	0.2500	0.2670	107	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	227460	Location:	Caldecott Tunnel
Client:	Construction Testing Services	Prep:	METHOD
Project#:	J6950 CALDECOTT	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	174087
MSS Lab ID:	227444-011	Sampled:	04/20/11
Matrix:	Soil	Received:	04/21/11
Units:	mg/Kg	Prepared:	04/25/11
Basis:	as received	Analyzed:	04/25/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC588964	0.03575	0.2500	0.3030	107	72-124		
MSD	QC588965		0.2604	0.3063	104	72-124	3	31

RPD= Relative Percent Difference

McCampbell Analytical, Inc.
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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Analytical Report

CKG Environmental	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/13/11-06/15/11
P.O. Box 246		Date Received: 06/15/11
	Client Contact: Chris Kennedy	Date Reported: 06/23/11
St. Helena, CA 94574	Client P.O.:	Date Completed: 06/23/11

WorkOrder: 1106511

June 23, 2011

Dear Chris:

Enclosed within are:

1) The results of the **7** analyzed samples from your project: **#OB-GCF; Exc.D Sidewalls,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

1106511

McCAMPBELL ANALYTICAL, INC.
1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☒ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Chris Kennedy | Bill To: Same

Company: CKG Environmental

P.O. Box 246

Saint Helena, CA 94574 | E-Mail: ckennedy@geologist.com

Tele: (707) 967-8080 | Fax: (   )

Project #: OB-GCF | Project Name: Exc. D Sidewalls

Project Location: 3600 Alameda Avenue, Oakland, CA

Sampler Signature: [signature]

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
DS1-7'		6-13-11		1	2.5" BR-TB		✓				✓			
DW1-7'		6-13-11		1	↓		✓				✓			
DN1-7.5'		6-13-11		1	↓		✓				✓			
DW2-8'		6-14-11		1	↓		✓				✓			
DS2-7'		6-14-11		1	↓		✓				✓			
DE/N-7'		6-15-11		1	↓		✓				✓			
DE/S-7'		6-15-11		1	↓		✓				✓			

Analysis Request

SAMPLE ID	~~BTEX &~~ TPH as Gas (~~602/8021~~ + 8015) ~~MTBE~~	TPH as Diesel (8015) w/ silica gel cleanup	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; 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 (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: Filter sample for DISSOLVED metals analysis	Comments
DS1-7'	✓	✓									~~✓~~	~~✓~~ JS						
DW1-7'	✓	✓									✓	✓						
DN1-7.5'	✓	✓									✓	✓						
DW2-8'	✓	✓																
DS2-7'	✓	✓									✓	✓						
DE/N-7'	✓	✓									✓	✓						
DE/S-7'	✓	✓																

Comments: **Indicate here if these samples are potentially dangerous to handle: Strong Odor

**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.

Relinquished By:	Date:	Time:	Received By:
[signature]	6/15	1411	[signature]
[signature]	6/15	1755	[signature]

ICE/t° 6.4
GOOD CONDITION____
HEAD SPACE ABSENT____
DECHLORINATED IN LAB____
APPROPRIATE CONTAINERS____
PRESERVED IN LAB____

COMMENTS:

PRESERVATION ____ VOAS O&G METALS pH<2 OTHER

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1106511 **ClientCode: CKGS**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

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

Email: ckennedy@geologist.com
cc:
PO:
ProjectNo: #OB-GCF; Exc.D Sidewalls

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

Requested TAT: 5 days

Date Received: **06/15/2011**
Date Printed: **06/15/2011**

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
1106511-001	DS1-7'	Soil	6/13/2011	☐			A									
1106511-002	DW1-7'	Soil	6/13/2011	☐	A	A	A									
1106511-003	DN1-7.5'	Soil	6/13/2011	☐	A	A	A									
1106511-004	DW2-8'	Soil	6/14/2011	☐			A									
1106511-005	DS2-7'	Soil	6/14/2011	☐	A	A	A									
1106511-006	DE/N-7'	Soil	6/15/2011	☐	A	A	A									
1106511-007	DE/S-7'	Soil	6/15/2011	☐			A									

Test Legend:

1	8260B_S	2	8270D_S	3	TPH(D)WSG_S	4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A contain testgroup.

Prepared by: Ana 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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Sample Receipt Checklist

Client Name: **CKG Environmental**

Date and Time Received: **6/15/2011 6:43:19 PM**

Project Name: **#OB-GCF; Exc.D Sidewalls**

Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **1106511** Matrix Soil

Carrier: Benjamin Yslas (MAI Courier)

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 ☐	
Container/Temp Blank temperature	Cooler Temp: 6.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

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

Client contacted: Date contacted: Contacted by:

Comments:

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CKG Environmental	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/13/11
		Date Received: 06/15/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Extracted: 06/15/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 06/17/11

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1106511

Lab ID	1106511-002A
Client ID	DW1-7'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	125	%SS2:	116
%SS3:	99		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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Telephone: 877-252-9262 Fax: 925-252-9269

CKG Environmental	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/13/11
		Date Received: 06/15/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Extracted: 06/15/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 06/17/11

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1106511

Lab ID	1106511-003A
Client ID	DN1-7.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	125	%SS2:	116
%SS3:	99		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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CKG Environmental	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/14/11
		Date Received: 06/15/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Extracted: 06/15/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 06/17/11

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1106511

Lab ID	1106511-005A
Client ID	DS2-7'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	125	%SS2:	114
%SS3:	96		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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CKG Environmental	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/15/11
		Date Received: 06/15/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Extracted: 06/15/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 06/17/11

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1106511

Lab ID	1106511-006A
Client ID	DE/N-7'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	127	%SS2:	117
%SS3:	119		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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CKG Environmental	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/13/11-06/15/11
		Date Received: 06/15/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Extracted: 06/15/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 06/18/11

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

Extraction Method: SW3550B Analytical Method: SW8270C Work Order: 1106511

Lab ID	1106511-002A
Client ID	DW1-7'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzidine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(g,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	1.6
1,1-Biphenyl	ND	1.0	0.33	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	62	%SS2:	53
%SS3:	60	%SS4:	44
%SS5:	38	%SS6:	69

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

#) surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

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CKG Environmental	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/13/11-06/15/11
		Date Received: 06/15/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Extracted: 06/15/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 06/18/11

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

Extraction Method: SW3550B Analytical Method: SW8270C Work Order: 1106511

Lab ID	1106511-003A
Client ID	DN1-7.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzidine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(g,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	1.6
1,1-Biphenyl	ND	1.0	0.33	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	82	%SS2:	66
%SS3:	67	%SS4:	74
%SS5:	57	%SS6:	68

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

#) surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

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CKG Environmental	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/13/11-06/15/11
		Date Received: 06/15/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Extracted: 06/15/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 06/18/11

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

Extraction Method: SW3550B Analytical Method: SW8270C Work Order: 1106511

Lab ID	1106511-005A
Client ID	DS2-7'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzidine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(g,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	1.6
1,1-Biphenyl	ND	1.0	0.33	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	88	%SS2:	74
%SS3:	72	%SS4:	77
%SS5:	52	%SS6:	69

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

#) surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

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CKG Environmental	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/13/11-06/15/11
		Date Received: 06/15/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Extracted: 06/15/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 06/20/11

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

Extraction Method: SW3550B Analytical Method: SW8270C Work Order: 1106511

Lab ID	1106511-006A
Client ID	DE/N-7'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<16	50	0.33	Acenaphthylene	ND<16	50	0.33
Acetochlor	ND<16	50	0.33	Anthracene	ND<16	50	0.33
Benzidine	ND<80	50	1.6	Benzoic Acid	ND<80	50	1.6
Benzo(a)anthracene	ND<16	50	0.33	Benzo(b)fluoranthene	ND<16	50	0.33
Benzo(k)fluoranthene	ND<16	50	0.33	Benzo(g,h,i)perylene	ND<16	50	0.33
Benzo(a)pyrene	ND<16	50	0.33	Benzyl Alcohol	ND<80	50	1.6
1,1-Biphenyl	ND<16	50	0.33	Bis (2-chloroethoxy) Methane	ND<16	50	0.33
Bis (2-chloroethyl) Ether	ND<16	50	0.33	Bis (2-chloroisopropyl) Ether	ND<16	50	0.33
Bis (2-ethylhexyl) Phthalate	ND<16	50	0.33	4-Bromophenyl Phenyl Ether	ND<16	50	0.33
Butylbenzyl Phthalate	ND<16	50	0.33	4-Chloroaniline	ND<33	50	0.66
4-Chloro-3-methylphenol	ND<16	50	0.33	2-Chloronaphthalene	ND<16	50	0.33
2-Chlorophenol	ND<16	50	0.33	4-Chlorophenyl Phenyl Ether	ND<16	50	0.33
Chrysene	ND<16	50	0.33	Dibenzo(a,h)anthracene	ND<16	50	0.33
Dibenzofuran	ND<16	50	0.33	Di-n-butyl Phthalate	ND<16	50	0.33
1,2-Dichlorobenzene	ND<16	50	0.33	1,3-Dichlorobenzene	ND<16	50	0.33
1,4-Dichlorobenzene	ND<16	50	0.33	3,3-Dichlorobenzidine	ND<33	50	0.66
2,4-Dichlorophenol	ND<16	50	0.33	Diethyl Phthalate	ND<16	50	0.33
2,4-Dimethylphenol	ND<16	50	0.33	Dimethyl Phthalate	ND<16	50	0.33
4,6-Dinitro-2-methylphenol	ND<80	50	1.6	2,4-Dinitrophenol	ND<80	50	1.6
2,4-Dinitrotoluene	ND<16	50	0.33	2,6-Dinitrotoluene	ND<16	50	0.33
Di-n-octyl Phthalate	ND<16	50	0.33	1,2-Diphenylhydrazine	ND<16	50	0.33
Fluoranthene	ND<16	50	0.33	Fluorene	ND<16	50	0.33
Hexachlorobenzene	ND<16	50	0.33	Hexachlorobutadiene	ND<16	50	0.33
Hexachlorocyclopentadiene	ND<80	50	1.6	Hexachloroethane	ND<16	50	0.33
Indeno (1,2,3-cd) pyrene	ND<16	50	0.33	Isophorone	ND<16	50	0.33
2-Methylnaphthalene	ND<16	50	0.33	2-Methylphenol (o-Cresol)	ND<16	50	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<16	50	0.33	Naphthalene	ND<16	50	0.33
2-Nitroaniline	ND<80	50	1.6	3-Nitroaniline	ND<80	50	1.6
4-Nitroaniline	ND<80	50	1.6	Nitrobenzene	ND<16	50	0.33
2-Nitrophenol	ND<80	50	1.6	4-Nitrophenol	ND<80	50	1.6
N-Nitrosodiphenylamine	ND<16	50	0.33	N-Nitrosodi-n-propylamine	ND<16	50	0.33
Pentachlorophenol	ND<80	50	1.6	Phenanthrene	ND<16	50	0.33
Phenol	ND<16	50	0.33	Pyrene	ND<16	50	0.33
1,2,4-Trichlorobenzene	ND<16	50	0.33	2,4,5-Trichlorophenol	ND<16	50	0.33
2,4,6-Trichlorophenol	ND<16	50	0.33				

Surrogate Recoveries (%)

%SS1:	88	%SS2:	71
%SS3:	71	%SS4:	46
%SS5:	130	%SS6:	70

Comments: a3

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

#) surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

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CKG Environmental	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/13/11-06/15/11
		Date Received: 06/15/11
P.O. Box 246	Client Contact: Chris Kennedy	Date Extracted 06/15/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed 06/17/11

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline *

Extraction method: SW5030B Analytical methods: SW8015Bm Work Order: 1106511

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	DS1-7'	S	110	10	93	d7,d9
002A	DW1-7'	S	2.4	1	80	d7
003A	DN1-7.5'	S	ND	1	84	
004A	DW2-8'	S	1400	50	---#	d7,d9
005A	DS2-7'	S	ND	1	81	
006A	DE/N-7'	S	30	5	92	d7
007A	DE/S-7'	S	ND	1	83	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9) no recognizable pattern

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Angela Rydelius, Lab Manager

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Telephone: 877-252-9262 Fax: 925-252-9269

CKG Environmental P.O. Box 246 St. Helena, CA 94574	Client Project ID: #OB-GCF; Exc.D Sidewalls	Date Sampled: 06/13/11-06/15/11
		Date Received: 06/15/11
	Client Contact: Chris Kennedy	Date Extracted 06/15/11
	Client P.O.:	Date Analyzed 06/17/11-06/23/11

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550B/3630C Analytical methods: SW8015B Work Order: 1106511

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1106511-001A	DS1-7'	S	2000	100	112	e7,e3
1106511-002A	DW1-7'	S	47	1	109	e7,e3
1106511-003A	DN1-7.5'	S	ND	1	116	
1106511-004A	DW2-8'	S	1300	10	107	e11,e1
1106511-005A	DS2-7'	S	2.4	1	111	e2
1106511-006A	DE/N-7'	S	6200	200	101	e7,e3
1106511-007A	DE/S-7'	S	3.1	1	96	e7,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
e1) unmodified or weakly modified diesel is significant
e2) diesel range compounds are significant; no recognizable pattern
e3) aged diesel is significant
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit (?)

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Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 59035 WorkOrder: 1106511

EPA Method: SW8260B **Extraction: SW5030B** **Spiked Sample ID: 1106469-020A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	75.1	71.1	1.75	78.2	80.3	2.65	70 - 130	30	70 - 130	30
Benzene	ND	0.050	94.6	95	0.404	107	109	2.12	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	74.6	79.8	6.74	86.6	85.7	0.980	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	109	109	0	101	102	1.40	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	89	90	1.15	91.1	92.8	1.84	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	95.4	98.1	2.79	87.8	90.3	2.78	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	123	125	0.941	107	108	0.463	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	105	105	0	115	117	1.76	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	94.9	96.1	1.24	98.7	101	1.87	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	96.4	99.5	3.21	95.2	95.4	0.161	70 - 130	30	70 - 130	30
Toluene	ND	0.050	110	108	1.66	112	113	1.20	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	102	102	0	98.3	99.2	0.956	70 - 130	30	70 - 130	30
%SS1:	89	0.12	121	123	1.86	91	89	1.90	70 - 130	30	70 - 130	30
%SS2:	103	0.12	114	113	0.588	110	110	0	70 - 130	30	70 - 130	30
%SS3:	100	0.012	93	91	2.72	108	108	0	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 59035 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106511-002A	06/13/11	06/15/11	06/17/11 3:53 AM	1106511-003A	06/13/11	06/15/11	06/17/11 4:31 AM
1106511-005A	06/14/11	06/15/11	06/17/11 5:12 AM	1106511-006A	06/15/11	06/15/11	06/17/11 5:50 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 59076 WorkOrder: 1106511

EPA Method: SW8015Bm **Extraction: SW5030B** **Spiked Sample ID: 1106486-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	124	125	1.10	128	125	2.12	70 - 130	20	70 - 130	20
MTBE	ND	0.10	105	111	5.67	119	111	7.62	70 - 130	20	70 - 130	20
Benzene	ND	0.10	88.9	95.6	7.23	90.8	91.5	0.818	70 - 130	20	70 - 130	20
Toluene	ND	0.10	89.4	94.1	5.15	90.6	91.2	0.573	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	90.3	93.6	3.63	91.9	92.1	0.231	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	89.3	91.8	2.79	91.3	91.5	0.112	70 - 130	20	70 - 130	20
%SS:	80	0.10	75	78	3.19	75	75	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 59076 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106511-001A	06/13/11	06/15/11	06/17/11 12:20 AM	1106511-002A	06/13/11	06/15/11	06/17/11 3:44 PM
1106511-003A	06/13/11	06/15/11	06/17/11 4:15 PM	1106511-004A	06/14/11	06/15/11	06/17/11 2:21 AM
1106511-005A	06/14/11	06/15/11	06/17/11 5:17 PM	1106511-006A	06/15/11	06/15/11	06/17/11 10:22 PM
1106511-007A	06/15/11	06/15/11	06/17/11 11:22 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644 QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 59099 WorkOrder: 1106511

EPA Method: SW8015B **Extraction: SW3550B/3630C** **Spiked Sample ID: 1106511-007A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	3.1	40	106	105	0.765	113	106	6.45	70 - 130	30	70 - 130	30
%SS:	96	25	97	96	1.04	98	84	15.1	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 59099 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106511-001A	06/13/11	06/15/11	06/21/11 8:26 PM	1106511-002A	06/13/11	06/15/11	06/17/11 10:08 PM
1106511-003A	06/13/11	06/15/11	06/19/11 6:41 AM	1106511-004A	06/14/11	06/15/11	06/23/11 7:52 AM
1106511-005A	06/14/11	06/15/11	06/23/11 6:42 AM	1106511-006A	06/15/11	06/15/11	06/23/11 12:00 PM
1106511-007A	06/15/11	06/15/11	06/19/11 8:59 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 59100 | WorkOrder: 1106511

EPA Method: SW8270C **Extraction: SW3550B** **Spiked Sample ID: 1106511-006A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Acenaphthene	ND<16	2	NR	NR	NR	81.6	82.6	1.25	30 - 130	30	30 - 130	30
4-Chloro-3-methylphenol	ND<16	4	NR	NR	NR	81.3	77	5.45	30 - 130	30	30 - 130	30
2-Chlorophenol	ND<16	4	NR	NR	NR	98.5	100	1.72	30 - 130	30	30 - 130	30
1,4-Dichlorobenzene	ND<16	2	NR	NR	NR	85.8	86.1	0.338	30 - 130	30	30 - 130	30
2,4-Dinitrotoluene	ND<16	2	NR	NR	NR	75.5	74.1	1.86	30 - 130	30	30 - 130	30
4-Nitrophenol	ND<80	4	NR	NR	NR	72.2	67.3	7.07	30 - 130	30	30 - 130	30
N-Nitrosodi-n-propylamine	ND<16	2	NR	NR	NR	85	85.1	0.106	30 - 130	30	30 - 130	30
Pentachlorophenol	ND<80	4	NR	NR	NR	42	39.1	7.19	30 - 130	30	30 - 130	30
Phenol	ND<16	4	NR	NR	NR	85.3	85.8	0.544	30 - 130	30	30 - 130	30
Pyrene	ND<16	2	NR	NR	NR	80.4	80.2	0.261	30 - 130	30	30 - 130	30
1,2,4-Trichlorobenzene	ND<16	2	NR	NR	NR	85.9	87	1.33	30 - 130	30	30 - 130	30
%SS1:	88	200	69	77	10.5	86	87	0.297	30 - 130	30	30 - 130	30
%SS2:	71	200	73	68	7.72	89	89	0	30 - 130	30	30 - 130	30
%SS3:	71	200	67	71	5.48	85	85	0	30 - 130	30	30 - 130	30
%SS4:	46	200	45	58	26.0	83	84	1.40	30 - 130	30	30 - 130	30
%SS5:	130	200	---#	---#	---#	74	75	1.18	30 - 130	30	30 - 130	30
%SS6:	70	200	62	74	17.4	77	77	0	30 - 130	30	30 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 59100 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106511-002A	06/13/11	06/15/11	06/18/11 7:18 AM	1106511-003A	06/13/11	06/15/11	06/18/11 8:36 AM
1106511-005A	06/14/11	06/15/11	06/18/11 9:58 AM	1106511-006A	06/15/11	06/15/11	06/20/11 11:48 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and / or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix, sample diluted due to high matrix or analyte content, or MS/MSD samples diluted due to high organic content.

#) surrogate diluted out of range; & = low or no recovery of surrogate or target analytes due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QA/QC Officer

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Analytical Report

CKG Environmental	Client Project ID: #OB-GCF; ExD-Phs.2	Date Sampled: 07/13/11-07/14/11
		Date Received: 07/15/11
P.O. Box 246	Client Contact: Christina Kennedy	Date Reported: 07/25/11
St. Helena, CA 94574	Client P.O.:	Date Completed: 07/25/11

WorkOrder: 1107395

July 25, 2011

Dear Christina:

Enclosed within are:

1) The results of the **4** analyzed samples from your project: **#OB-GCF; ExD-Phs.2,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

McCAMPBELL ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAY

GeoTracker EDF ☐ **PDF** ☑ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Chris Kennedy	Bill To: Same
Company: CKG Environmental	
P.O. Box 246	
Saint Helena, CA 94574	E-Mail:ckennedy@geologist.com
Tele: (707) 967-8080	Fax: ( )
Project #:OB-GCF	Project Name: End Phase 2
Project Location: 3600 Alameda Avenue, Oakland, CA	
Sampler Signature:	

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
DW3-8'		7.13.11		1	40z glass		✓				✓			
DW4-7'		↓		1	↓									
DW5-8'		↓		1										
DS3-8'		7.14.11		1										
DS4-7.5'		↓		1										
DE3-7.5'		↓		1	↓									
SDSS-4'		7.13.11		1	40z glass									
SE-8'		↓		1	↓									

Analysis Request

BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) w/ silica gel c/up	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; 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 (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)
✓	✓														
✓	✓														
✓	✓														
✓	✓														

Other: Filter sample for DISSOLVED metals analysis

Comments: **Indicate here if these samples are potentially dangerous to handle: STRONG H/C ODOR

**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.

Relinquished By:	Date:	Time:	Received By:
	7/15/11	1200	
Relinquished By:	Date:	Time:	Received By:
	7/15/11	1530	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 8 - 4

COMMENTS:

GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1107395 **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:
PO:
ProjectNo: #OB-GCF; ExD-Phs.2

Bill to:
Accounts Payable
CKG Environmental
808 Zinfindel Lane
St. Helena, CA 94574

Requested TAT: 5 days

Date Received: **07/15/2011**
Date Printed: **07/15/2011**

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
1107395-001	DW3-8'	Soil	7/13/2011	☐	A	A										
1107395-003	DW5-8'	Soil	7/13/2011	☐	A	A										
1107395-005	DS4-7.5'	Soil	7/14/2011	☐	A	A										
1107395-006	DE3-7.5'	Soil	7/14/2011	☐	A	A										

Test Legend:

1	G-MBTEX_S	2	TPH(D)WSG_S	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana 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.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **CKG Environmental**

Date and Time Received: **7/15/2011 4:57:25 PM**

Project Name: **#OB-GCF; ExD-Phs.2**

Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **1107395** Matrix: Soil

Carrier: Rob Pringle (MAI Courier)

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 ☐	
Container/Temp Blank temperature	Cooler Temp: 8.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

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

Client contacted: Date contacted: Contacted by:

Comments:

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Telephone: 877-252-9262 Fax: 925-252-9269

CKG Environmental	Client Project ID: #OB-GCF; ExD-Phs.2	Date Sampled: 07/13/11-07/14/11
		Date Received: 07/15/11
P.O. Box 246	Client Contact: Christina Kennedy	Date Extracted: 07/15/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 07/19/11-07/20/11

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1107395

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	DW3-8'	S	90	ND<0.50	ND<0.050	0.22	ND<0.050	0.20	10	96	d7,d9
003A	DW5-8'	S	110	ND<0.50	ND<0.050	ND<0.050	ND<0.050	0.30	10	94	d7,d9
005A	DS4-7.5'	S	110	ND<0.50	ND<0.050	ND<0.050	ND<0.050	0.19	10	89	d7,d9
006A	DE3-7.5'	S	ND	ND	ND	ND	ND	ND	1	78	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9) no recognizable pattern

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CKG Environmental P.O. Box 246 St. Helena, CA 94574	Client Project ID: #OB-GCF; ExD-Phs.2	Date Sampled: 07/13/11-07/14/11
		Date Received: 07/15/11
	Client Contact: Christina Kennedy	Date Extracted 07/15/11
	Client P.O.:	Date Analyzed 07/22/11-07/24/11

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550B/3630C Analytical methods: SW8015B Work Order: 1107395

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1107395-001A	DW3-8'	S	1400	20	92	e7,e2
1107395-003A	DW5-8'	S	480	1	109	e1
1107395-005A	DS4-7.5'	S	450	1	117	e1
1107395-006A	DE3-7.5'	S	33	1	120	e3

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
e1) unmodified or weakly modified diesel is significant
e2) diesel range compounds are significant; no recognizable pattern
e3) aged diesel is significant
e7) oil range compounds are significant

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 59761 WorkOrder: 1107395

EPA Method: SW8021B/8015Bm **Extraction: SW5030B** **Spiked Sample ID: 1107084-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	110	97.6	12.4	94.5	102	7.42	70 - 130	20	70 - 130	20
MTBE	ND	0.10	109	114	4.77	103	107	3.34	70 - 130	20	70 - 130	20
Benzene	ND	0.10	104	108	3.76	109	106	2.76	70 - 130	20	70 - 130	20
Toluene	ND	0.10	93.6	94.3	0.771	96.9	93.7	3.33	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	97.3	97.5	0.242	98.1	98.1	0	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	111	110	0.921	111	110	0.755	70 - 130	20	70 - 130	20
%SS:	77	0.10	104	106	1.94	105	105	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 59761 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1107395-001A	07/13/11	07/15/11	07/19/11 7:44 PM	1107395-003A	07/13/11	07/15/11	07/19/11 8:14 PM
1107395-005A	07/14/11	07/15/11	07/19/11 8:45 PM	1107395-006A	07/14/11	07/15/11	07/20/11 8:12 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644 QA/QC Officer

McCampbell Analytical, Inc.
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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 59753 WorkOrder: 1107395

EPA Method: SW8015B **Extraction: SW3550B/3630C** **Spiked Sample ID: 1107384-012A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	4.8	40	102	103	0.827	130	115	12.2	70 - 130	30	70 - 130	30
%SS:	92	25	109	110	0.380	105	98	7.31	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 59753 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1107395-001A	07/13/11	07/15/11	07/23/11 7:27 PM	1107395-003A	07/13/11	07/15/11	07/24/11 10:44 PM
1107395-005A	07/14/11	07/15/11	07/22/11 3:55 AM	1107395-006A	07/14/11	07/15/11	07/22/11 12:06 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Analytical Report

CKG Environmental	Client Project ID: SPD2(ABCD)(EFGH)	Date Sampled: 07/25/11
		Date Received: 07/25/11
P.O. Box 246	Client Contact: Christina Kennedy	Date Reported: 07/26/11
St. Helena, CA 94574	Client P.O.:	Date Completed: 07/26/11

WorkOrder: 1107680

July 26, 2011

Dear Christina:

Enclosed within are:

1) The results of the **2** analyzed samples from your project: **SPD2(ABCD)(EFGH),**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

1107680

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

RUSH

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☒ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Chris Kennedy **Bill To:** CKC Environmental

Company: P.O Box 2116
St. Helena CA 94574

E-Mail: Ckennedy@geologist.com

Tele: ( ) **Fax:** ( )

Project #: **Project Name:**

Project Location:

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: ICE	HCL	HNO_3	Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) / Moto oil	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 8260 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515.3 / 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 (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other	Comments
SPD2 (ABCD)		7/25/11	2:30	4			✓								✓	✓														✓		
SPD2 (EFGH)		"	"	4			✓								✓	✓														✓		

with silica gel clean up

RUSH

Relinquished By:	Date:	Time:	Received By:
	7/25	3:19	
Relinquished By:	Date:	Time:	Received By:
	7/25/11	1600	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 3.8 COMMENTS:
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1107680 **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:
PO:
ProjectNo: SPD2(ABCD)(EFGH)

Bill to:
Accounts Payable
CKG Environmental
808 Zinfindel Lane
St. Helena, CA 94574

Requested TAT: **1 day**

Date Received: **07/25/2011**
Date Printed: **07/25/2011**

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
1107680-001	SPD2(ABCD)	Soil	7/25/2011 14:30	☐	A	A	A									
1107680-002	SPD2(EFGH)	Soil	7/25/2011 14:30	☐	A	A	A									

Test Legend:

1	G-MBTEX_S	2	PB_S	3	TPH(DMO)WSG_S	4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: 24hr rush

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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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **CKG Environmental**
Date and Time Received: **7/25/2011 4:37:54 PM**

Project Name: **SPD2(ABCD)(EFGH)**
Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **1107680** Matrix: Soil
Carrier: Rob Pringle (MAI Courier)

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 ☐	
Container/Temp Blank temperature	Cooler Temp: 3.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

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

Client contacted: Date contacted: Contacted by:

Comments:

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CKG Environmental	Client Project ID: SPD2(ABCD)(EFGH)	Date Sampled: 07/25/11
		Date Received: 07/25/11
P.O. Box 246	Client Contact: Christina Kennedy	Date Extracted: 07/25/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 07/26/11

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1107680

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	SPD2(ABCD)	S	16	ND<0.10	ND<0.010	0.013	ND<0.010	0.051	2	91	d7,d9
002A	SPD2(EFGH)	S	8.3	ND	ND	ND	ND	0.026	1	95	d7

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9) no recognizable pattern

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

CKG Environmental P.O. Box 246 St. Helena, CA 94574	Client Project ID: SPD2(ABCD)(EFGH)	Date Sampled: 07/25/11
		Date Received: 07/25/11
	Client Contact: Christina Kennedy	Date Extracted: 07/25/11
	Client P.O.:	Date Analyzed: 07/26/11

Lead by ICP*

Extraction method: SW3050B Analytical methods: SW6010B Work Order: 1107680

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
1107680-001A	SPD2(ABCD)	S	TOTAL	5.6	1	103	
1107680-002A	SPD2(EFGH)	S	TOTAL	5.7	1	87	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	TOTAL	5.0	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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CKG Environmental	Client Project ID: SPD2(ABCD)(EFGH)	Date Sampled: 07/25/11
		Date Received: 07/25/11
P.O. Box 246	Client Contact: Christina Kennedy	Date Extracted: 07/25/11
St. Helena, CA 94574	Client P.O.:	Date Analyzed: 07/26/11

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550B/3630C Analytical methods: SW8015B Work Order: 1107680

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1107680-001A	SPD2(ABCD)	S	180	220	20	109	e7,e2
1107680-002A	SPD2(EFGH)	S	170	260	1	94	e7,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 59978 WorkOrder: 1107680

EPA Method: SW8021B/8015Bm **Extraction: SW5030B** **Spiked Sample ID: 1107569-016A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	123	123	0	128	127	0.128	70 - 130	20	70 - 130	20
MTBE	ND	0.10	110	122	9.89	124	123	0.819	70 - 130	20	70 - 130	20
Benzene	ND	0.10	85.1	95.4	11.4	94	96.8	2.97	70 - 130	20	70 - 130	20
Toluene	ND	0.10	82.1	92.5	11.9	90.7	93	2.50	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	82.7	94.9	13.7	91.7	93	1.32	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	82.2	92.9	12.1	91.1	92.5	1.53	70 - 130	20	70 - 130	20
%SS:	89	0.10	73	79	7.51	77	84	8.56	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 59978 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1107680-001A	07/25/11 2:30 PM	07/25/11	07/26/11 11:52 AM	1107680-002A	07/25/11 2:30 PM	07/25/11	07/26/11 8:34 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644 QA/QC Officer

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"When Quality Counts"

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QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 1107680

EPA Method: SW6010B		Extraction: SW3050B			BatchID: 59875			Spiked Sample ID: 1107523-001A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	22	50	89.1	93.6	3.28	10	89.7	75.1	17.7	75 - 125	25	75 - 125	25
%SS:	94	500	88	95	7.85	500	92	100	8.49	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 59875 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1107680-001A	07/25/11 2:30 PM	07/25/11	07/26/11 2:33 PM	1107680-002A	07/25/11 2:30 PM	07/25/11	07/26/11 2:35 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644 _____ QA/QC Officer

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"When Quality Counts"

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 59979 WorkOrder: 1107680

EPA Method: SW8015B **Extraction: SW3550B/3630C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	40	N/A	N/A	N/A	112	103	8.73	N/A	N/A	70 - 130	30
%SS:	N/A	25	N/A	N/A	N/A	103	84	20.9	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 59979 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1107680-001A	07/25/11 2:30 PM	07/25/11	07/26/11 3:57 PM	1107680-002A	07/25/11 2:30 PM	07/25/11	07/26/11 4:38 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

Analytical Sciences

June 28, 2011

Chris Kennedy
CKG Environmental, Inc.
P.O. Box 246
St. Helena, CA 94574

Dear Chris,

Enclosed you will find Analytical Sciences' final report 1062709 for your Owen Brockway, Oakland project. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

Mark A. Valentini, Ph.D.

Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952

Analytical Sciences

Report Date: June 28, 2011

Laboratory Report

Chris Kennedy
CKG Environmental, Inc.
P.O. Box 246
St. Helena, CA 94574

Project Name: **Owen Brockway, Oakland** **Exc. D S.P. (6-27-11)**

Lab Project: **1062709**

This 7 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952

TPH Gasoline & BTEX

Lab#	Sample ID	Compound Name	Result (mg/kg)	RDL (mg/kg)
1062709-01	**SPD (A+B+C+D)**	Gasoline	8.2	2.0
		Benzene	ND	0.010
		Toluene	ND	0.010
		Ethylbenzene	ND	0.010
		Xylenes	ND	0.030

Date Sampled:	06/27/11	Date Analyzed:	06/28/11	QC Batch: B009352
Date Received:	06/27/11	Method:	EPA 8015/8021	

TPH Gasoline & BTEX

Lab#	Sample ID	Compound Name	Result (mg/kg)	RDL (mg/kg)
1062709-02	**SPD (E+F+G+H)**	Gasoline	14	2.0
		Benzene	ND	0.010
		Toluene	ND	0.010
		Ethylbenzene	ND	0.010
		Xylenes	ND	0.030

Date Sampled:	06/27/11	Date Analyzed:	06/28/11	QC Batch: B009352
Date Received:	06/27/11	Method:	EPA 8015/8021	

TPH Diesel & Motor Oil with Silica Gel

Lab#	Sample ID	Compound Name	Result (mg/kg)	RDL (mg/kg)
1062709-01	**SPD (A+B+C+D)**	Diesel	540	5.0
		Motor Oil	370	50

Date Sampled:	06/27/11	Date Analyzed:	06/27/11	QC Batch: B009364
Date Received:	06/27/11	Method:	EPA 8015 Silica Gel	

TPH Diesel & Motor Oil with Silica Gel

Lab#	Sample ID	Compound Name	Result (mg/kg)	RDL (mg/kg)
1062709-02	**SPD (E+F+G+H)**	Diesel	250	5.0
		Motor Oil	150	50

Date Sampled:	06/27/11	Date Analyzed:	06/28/11	QC Batch:	B009364
Date Received:	06/27/11	Method:	EPA 8015 Silica Gel		

Metals

Lab#	Sample ID	Compound Name	Result (mg/kg)	RDL (mg/kg)
1062709-01	**SPD (A+B+C+D)**	Lead (Pb)	6.0	3.0

Date Sampled:	06/27/11	Date Analyzed:	06/28/11	QC Batch:	B009357
Date Received:	06/27/11	Method:	EPA 6010B		

Metals

Lab#	Sample ID	Compound Name	Result (mg/kg)	RDL (mg/kg)
1062709-02	**SPD (E+F+G+H)**	Lead (Pb)	6.8	3.0

Date Sampled:	06/27/11	Date Analyzed:	06/28/11	QC Batch:	B009357
Date Received:	06/27/11	Method:	EPA 6010B		

Quality Assurance Report

TPH Gasoline & BTEX

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009352 - EPA 5030 GC										
Blank (B009352-BLK1)				Prepared & Analyzed: 06/24/11						
Gasoline	ND	1.0	mg/kg							
Benzene	ND	0.005	mg/kg							
Toluene	ND	0.005	mg/kg							
Ethylbenzene	ND	0.005	mg/kg							
Xylenes	ND	0.015	mg/kg							
LCS (B009352-BS1)				Prepared & Analyzed: 06/24/11						
Benzene	0.022	0.005	mg/kg	0.0250		88	80-120			
Toluene	0.022	0.005	mg/kg	0.0250		90	80-120			
Ethylbenzene	0.022	0.005	mg/kg	0.0250		89	80-120			
Xylenes	0.070	0.015	mg/kg	0.0750		93	80-120			
LCS Dup (B009352-BSD1)				Prepared: 06/24/11 Analyzed: 06/28/11						
Benzene	0.022	0.005	mg/kg	0.0250		87	80-120	1	20	
Toluene	0.023	0.005	mg/kg	0.0250		91	80-120	2	20	
Ethylbenzene	0.023	0.005	mg/kg	0.0250		91	80-120	2	20	
Xylenes	0.067	0.015	mg/kg	0.0750		89	80-120	5	20	

TPH Diesel & Motor Oil with Silica Gel

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009364 - EPA 3550B GC										
Blank (B009364-BLK1)				Prepared & Analyzed: 06/27/11						
Diesel	ND	5.0	mg/kg							
Motor Oil	ND	50	mg/kg							
LCS (B009364-BS1)				Prepared & Analyzed: 06/27/11						
Diesel	233	5.0	mg/kg	227		103	65-135			
LCS Dup (B009364-BSD1)				Prepared & Analyzed: 06/27/11						
Diesel	231	5.0	mg/kg	227		102	65-135	0.9	30	
Matrix Spike (B009364-MS1)		**Source: 1062709-01**		Prepared & Analyzed: 06/27/11						
Diesel	768	5.0	mg/kg	219	539	104	65-135			

Metals

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009357 - EPA 3050B										
Blank (B009357-BLK1)				Prepared: 06/27/11 Analyzed: 06/28/11						
Lead (Pb)	ND	3.0	mg/kg							
LCS (B009357-BS1)				Prepared: 06/27/11 Analyzed: 06/28/11						
Lead (Pb)	25.4	3.0	mg/kg	25.0		102	70-130			
LCS Dup (B009357-BSD1)				Prepared: 06/27/11 Analyzed: 06/28/11						
Lead (Pb)	25.8	3.0	mg/kg	25.0		103	70-130	2	20	

Notes and Definitions

RDL	Reporting Detection Limit
ND	Analyte NOT DETECTED at or above the reporting detection limit (RDL)
RPD	Relative Percent Difference
NR	Not Reported

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Analytical Sciences
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110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

RUSH

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 1062709
CLIENT'S PROJECT NAME: OWEN BROCKWAY, OAKLAND
CLIENT'S PROJECT NUMBER: EXC. D S.P. (6.27.11)

CLIENT INFORMATION

COMPANY NAME: CKG ENVIRONMENTAL, INC.
ADDRESS: P.O. BOX 246
SAINT HELENA, CA
CONTACT: CHRIS KENNEDY
PHONE#: 707-967-8080 FAX:
E-MAIL CKENNEDY@GEOLOGIST.COM
SAADUST@GMAIL.COM

TURNAROUND TIME (check one)

SAME DAY			
24 HOURS	✓		
48 HOURS		5 DAYS	
72 HOURS		NORMAL	

GEOTRACKER EDF: ___ Y ✓ N
GLOBAL ID:

COOLER TEMPERATURE
°C

COC
PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/GAS/BTEX & MTBE EPA 8021	TPH DIESEL (with MOTOR OIL SGC) EPA 8015M	VOLATILE HYDROCARBONS EPA 8260B (FULL LIST)	BTEX & OXYGENATES + PB SCAVENGERS EPA 8260B	OXYGENATED FUEL ADDITIVES EPA 8260B	CHLORINATED SOLVENTS EPA 8010 / EPA 8260B	SEMI-VOLATILE HYDROCARBONS EPA 8270C	TRPH / TOG SM 5520 / EPA 1664A	PESTICIDES / PCB'S EPA 8081 / 8141 / 8082	CAM 17 METALS / 5 LUFT METALS	TOTAL LEAD			COMMENTS 1062709	LAB SAMPLE #
1	SPD(A+B+C+D)	6-27-11	1400	SOIL	4	NO	✓	✓									✓			4:1	01
2	SPD(E+F+G+H)	6-27-11	1415	SOIL	4	NO	✓	✓									✓			4:1	02
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					

SIGNATURES

SAMPLED BY:

RELINQUISHED BY: _____ SIGNATURE
6-27-11 DATE
1545 TIME

RECEIVED BY LABORATORY: _____ SIGNATURE
6/27/11 DATE
1545 TIME

110 Liberty Street
Petaluma, CA 94952

APPENDIX B

PHOTOGRAPHIC LOG

EXCAVATION D

Figure 1 Northwest corner of Excavation D. The water line is supported by suspending it from an I-beam so that impacted soil beneath it could be removed

Figure 2 Looking east from the plant building at the electrical duct bank.

Figure 3 Placing ORC slurry into Excavation D

Figure 4 Clean soil placed and in the process of being compacted at Excavation D.

EXCAVATION B

Figure 5 The trace of the active 12-inch gas line. Shoring was installed on both sides.

Figure 6 Part of the wall of the brink bunker visible with tar at the bottom.

Figure 7 The north side of Excavation B.

Figure 8 Soil in Excavation B at a depth of 20 feet below grade. No groundwater is visible, but staining is strongly evident.

Figure 9 Aerial view of Excavation B after ORC and drain rock had been placed.

Figure 10 Paving in the Western UST Area, with new cullet bunkers on the right.

APPENDIX C

TESTING ENGINEERS, INC.

INSPECTION REPORT — WORK REQ.#D1196

PROJECT #: 53593/6593

PROJECT: NRC Environmental Services
Underground Tank Soil Remediation
3600 Alameda Ave., Oakland

TYPE OF INSPECTION: Nuclear Density

PLACE OF INSPECTION: Jobsite

HOURS: 4

INSPECTOR: Ram

REPORTED TO: Scott

COMPANY: NRC Environmental

FEATURE: Trench backfill

FIELD TEST PROCEDURE: ASTM D2922 & D3017

LABORATORY TEST PROCEDURE: ASTM D1557

MATERIAL DESCRIPTION	MOISTURE %	MAX. DENSITY PCF	LABORATORY REF. NO.
1. Dark brown gravel	9.8	118.5	Client

FIELD TEST RESULTS

LOCATION	ELEVATION	CURVE NO.	FIELD DENSITY PCF	FIELD MOISTURE %	RELATIVE COMP. %	PROJECT SPECIFIED %
1. Trench backfill – See Drawing	-4' FG	1	115.2	17.2	97	90

NOTE: Test results constitute the reporting of factual information derived from test(s) made by our laboratory following prescribed procedures. These test results should not be considered as an engineering opinion with respect thereto.

Reviewed by: _____
Terry L. Egland, C.E. #34132
Operations Manager

Cc:

Corporate Office - 2811 Teagarden Street, San Leandro, California 94577 - (510) 835-3142 - FAX (510) 834-3777
East/North Bay - 827 Arnold Drive, Bay 4, Martinez, California 94553 - (925) 370-7000 - FAX (925) 229-2951

***

PLANT N#20

UNDERGROUND TANK SOIL REMEDIATION - 2011
3600 ALAMEDA AVENUE, OAKLAND, CA 94601

CIVIL/STRUCTURAL DRAWINGS
PROJECT NO. 1020.054

SHEET NUMBER	DRAWING TITLE
CE001	DRAWING LIST AND PLOT PLAN OF BUILDINGS AT 3600 ALAMEDA AVENUE
CE002	ENLARGED PLAN OF EXCAVATION AREAS "A" & "B"
CE003	FINAL PAVING PLAN
CE004	NEW CULLET BUNKER PLAN SECTIONS AND DETAILS
CE005	ENLARGED PLAN OF EXCAVATION AREAS "C" & "D"

STRUCTURAL DESIGN CRITERIA

DESIGN STANDARDS

CALIFORNIA BUILDING CODE 2010 1 & 2 (CBC-10)
INTERNATIONAL BUILDING CODE (IBC-09)
MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (SEI/ASCE 7-05)
STEEL CONSTRUCTION MANUAL (AISC 360-05)
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-08)

DESIGN DATA

1. GRAVITY LOADS:
 1.1. ECOLOGY CULLET (ACW 2,655)
 DEAD — 90 PCF

2. EARTHQUAKE LOADS (PER SEI/ASCE 7):
 2.1. SEISMIC DESIGN CRITERIA (PER CHAPTER 11)
 SEISMIC IMPORTANCE FACTOR (I_E) — 1.00
 OCCUPANCY CATEGORY — I
 S_S — 1.55g
 S_1 — 0.65g
 SITE CLASS — D
 S_{DS} — 1.34g
 S_{D1} — 0.60g
 SEISMIC DESIGN CATEGORY (SDC) — E
 2.2. NONSTRUCTURAL COMPONENTS (PER CHAPTER 13)
 a_p — 2.5
 R_p — 2.0
 2.3. NONBUILDING STRUCTURES (PER CHAPTER 15):
 SEISMIC IMPORTANCE FACTOR (I) — 1.00
 OCCUPANCY CATEGORY — I
 SEISMIC DESIGN CATEGORY (SDC) — D
 SEISMIC FORCE RESISTING SYSTEM (SFRS) — OMF

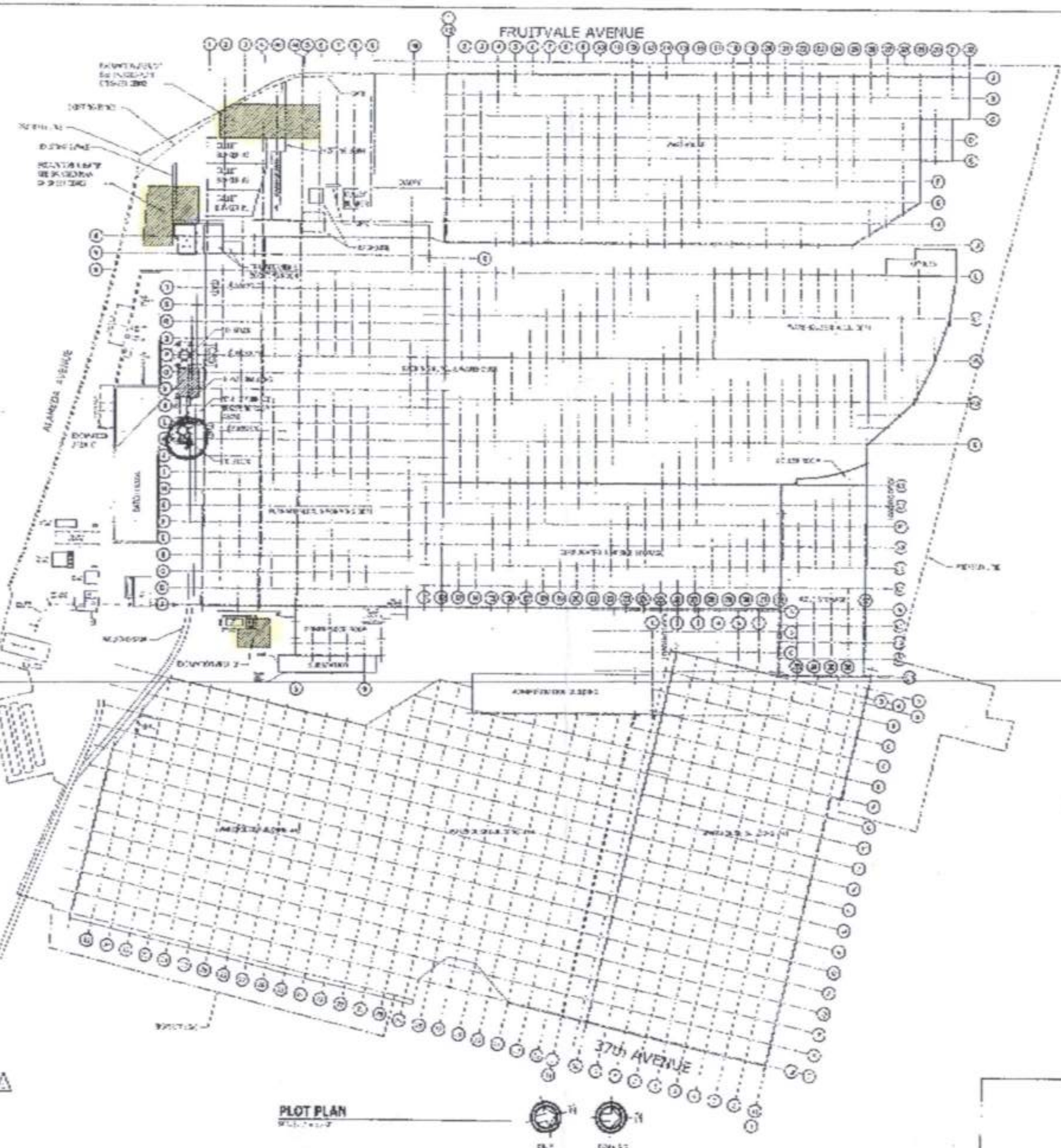
GEOTECHNICAL

ALL GEOTECHNICAL INFORMATION FOR THE PROJECT IS BASED ON THE FOLLOWING:

1. AN ALLOWABLE NET SOIL BEARING CAPACITY OF [illegible] PSF WHICH WILL BE ASSUMED FOR THE PURPOSE [illegible] BASED ON THE GEOTECHNICAL REPORT [illegible] PREVIOUS DESIGN CALCULATIONS FOR OAKLAND [illegible] PROJECT NO. 1020.054 DATED [illegible] 2011.

ABBREVIATIONS

ASSY - ASSEMBLY	HSS - HOLLOW STRUCTURAL SECTION	(E) - EXISTING	T.S. - TUBE STEEL
BOT - BOTTOM	O.D. - OUTSIDE DIAMETER	EA - EACH	TYP - TYPICAL
BTWN - BETWEEN	P - POST	EA - EACH	U.N.O. - UNLESS NOTED
CONC - CONCRETE	PL - PLATE	EL - ELEVATION	CONV - CONVEYOR
CONT - CONTINUOUS	REQD - REQUIRED	EXT - EXTERIOR	DEMO - DEMOLITION
GA - GAGE	SCH - SCHEDULE	I.D. - INSIDE DIAMETER	DET - DETAIL
DWG - DRAWING	U.N.O. - UNLESS NOTED OTHERWISE	LG - LONG	DIA - DIAMETER
# - NUMBER	W/ - WITH	SHT - SHEET	DIAG - DIAGONAL
@ - AT	DWG - DRAWINGS	STD - STANDARD	



DRAWING LIST AND PLOT PLAN OF BUILDINGS AT 3600 ALAMEDA AVENUE
UNDERGROUND TANK SOIL REMEDIATION

CE001 | 1
G-4047
1020.054

KLEINFELDER
Bright People. Right Solutions.

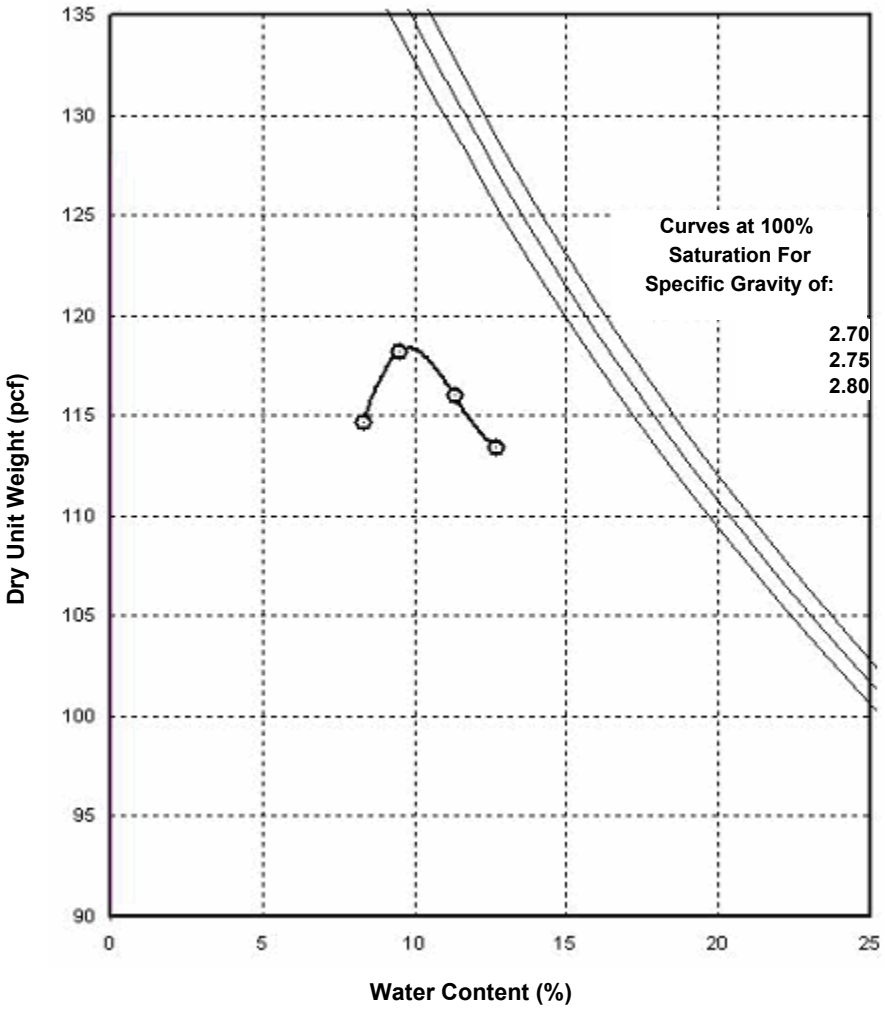
2601 Barrington Court
Hayward, CA 94545
Phone: (925) 484-1700 Fax: (925) 484-5838

Laboratory Compaction Characteristics of Soil Corrected for Oversize Particles

Report To:
Dirt Market
Robert Trujillo
37 South 4th Street
Campbell, CA 95008

Report Date: 4/21/2011
Project No.: 111523
Project: Dirt Market
Task: MAT Materials Testing

TEST RESULTS



Sample No.: PLE_3069
Date Sampled: 4/15/2011
Sample Location:

Material Description:
Dark Brown Aggregate Base

Compaction Test Method:
ASTM D 1557 Method C
Maximum Dry Unit Weight (pcf): 113.2*
Optimum Water Content (%): 13.4 *
*designates uncorrected test values

Corrected Maximum Dry Unit Weight (pcf):
118.5
Corrected Optimum Water Content (%):
9.8
Material Separated on:
3/4 in. (19.0 mm)
Percentage of Oversize Material:
28.8
Bulk Specific Gravity of Oversize Material:
2.144

Remarks:

Reviewed on 4/21/2011 by:

Cindy Pimentel
Senior Technician

ATTACHMENT 2

Construction Closeout Report

Underground Facilities Removal (UFR) Project June 2014

Owens-Brockway Glass Container Corporation 3600 Alameda Ave Oakland, California

Submitted to:

CKG Environmental, Inc.
July 14, 2014

Submitted by:

SIERRA WEST CONSULTANTS, INC.

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Appendices

1.0 Introduction

Sierra West Consultants, Inc. (Sierra West) is pleased to provide this construction closeout report to CKG Environmental, Inc. (CKG) for the Owens-Brockway Underground Facilities Removal (UFR) Project. This report provides a brief project description, identifies the project team, includes the UST removal permit, and outlines the project schedule. The construction activities are described in terms of field work at Excavation C (Ex C) and Excavation E (Ex E). Daily activity logs, test results, landfill disposal records, photos, final quantities, and as-built drawings are provided in the Appendices.

1.1 Project Description

The project site is the Owens-Brockway Glass Container Corporation at 3600 Alameda Ave Oakland, CA. The facility operates 24 hours per day, although construction activities were limited to 7am to 7pm, in accordance to the City of Oakland's noise ordinances.

The project objectives were to remove an underground storage tank (UST) from Ex C and a buried brick bunker from Ex E. The excavations were conducted in accordance with the *Revised Corrective Action Plan-Targeted Excavations and Groundwater Treatment Trench*, dated January 17, 2014, and the *Project Documents for the Underground Facilities Removal Project*, dated May 2014.

The primary constituents of concern are total petroleum hydrocarbons (TPHs) in soil and shallow groundwater. The TPHs are primarily heavy-end hydrocarbons from aged fuel oils. The purpose of the project is to remove TPHs in the impacted soils to the extent practical, dewater the excavation of impacted groundwater as needed to maintain a safe and stable excavation, add oxygen releasing compound (ORC) to the excavations, backfill the excavations, and restore surface conditions.

1.2 Project Team

Owens-Brockway Glass Container Corporation is the project Owner and CKG is the lead environmental consultant and project manager. Sierra West is the remediation design engineer and provided construction management support to CKG. National Response Corporation (NRC) provided construction services. Additional support services were provided by: Rockridge Geotechnical for compaction tests, Testing Engineers Inc. for concrete tests, McCampbell Analytical, Inc. for soil and groundwater testing, and Altamont Landfill for soil disposal. Contact information is included in Appendix 1.

1.3 Permits

Prior to beginning excavation at Ex C, a UST removal permit from the Oakland Fire Department was obtained. A copy of the permit is included in Appendix 2.

1.4 Schedule

Construction activities were to be completed by July 9th to allow annual plant maintenance activities to be conducted by the Owners. Pre-construction began June 3rd. Table 1 provides a summary of general milestone completion dates.

Table 1: Schedule of Milestone Project Activities

Milestone	Completion Date
Pre-Construction Investigation	May 20, 2014
Remove Shed at Ex C	June 3, 2014
Pothole at Ex C	June 16, 2014
Excavate Ex E	June 18, 2014
Excavate Ex C	June 24, 2014
Backfill Ex E	June 26, 2014
Backfill Ex C	June 25, 2014
Concrete Surface Restoration at Ex E	July 1, 2014
Concrete Surface Restoration at Ex C	July 1, 2014
Final Inspection	July 9, 2014

2. Scope of Work

Field activities for pre-construction data collection, and soil removal at Ex C and Ex E are described below. Analytical testing results and other field data are also presented. Daily construction reports are included in Appendix 3.

2.1 Pre-Construction Investigation

CKG collected soil samples from a single boring in Ex E to evaluate the levels of TPH impacts at various depths. This information was used by the project team and the landfills to determine the most cost-effective soil disposal alternative. Soil samples were collected at 4 feet, 7.5 feet, 12.5 feet, and 16 feet below ground surface. Table 2 provides the concentrations of the primary constituents found at these depths. BTEX, MTBE, semi-volatile organic compounds, and metals were not present at concentrations of concern. The laboratory report is included in Appendix 4.

Table 2: Pre-Construction Soil Profile Data Summary

Sample ID	Units	TPH(g)	TPH-Diesel	TPH-Motor Oil	TPH-Fuel Oil
BB-4	mg/Kg	5.8	89	140	180
BB-7.5	mg/Kg	61	450	570	740
BB-12.5	mg/Kg	610	2200	2400	3500
BB-16	mg/Kg	750	2400	2800	3800

The results indicated that the shallow excavated soil material could be used as cover material at the landfill and thereby have lower disposal fees. The deeper soils had to be disposed of in the Class II cells at a higher cost.

2.2 Excavation C

At Ex C, an existing shed was removed and the Hi-Vac unit was relocated. A small pothole was excavated and groundwater was found approximately four feet below ground surface. The UST was not found. No records of the UST removal can be found and it is understood that the UST must have been

removed sometime before 1985. The pothole was dewatered and temporarily backfilled. NRC identified sand backfill from the pothole that extended to the railroad tracks. Therefore, the railroad tracks and ties on the north side of Ex C were removed.

Shoring was provided along the east and west sides of the excavation. The excavated material contained sandy soils that appeared to be imported backfill material from a previous UST removal effort. Approximately 460 tons of material was removed and disposed of as cover material at the Altamont Landfill. Two samples of native soil and one groundwater sample were collected at 12 feet below grade, as shown on Figure 1. Table 3 summarizes concentrations of the primary constituents found in the soil samples. The laboratory report is included in Appendix 5.

Table 3: Excavation C Summary of Primary Constituents in Soil and Groundwater

Sample ID	Units	TPH(g)	TPH-Diesel	TPH-Motor Oil
EXC SS1	mg/Kg	6.5	1,400	1,500
EXC SS2	mg/Kg	ND	13	25
EXC GW1	µg/L	110	69,000	70,000

Approximately 495 pounds of ORC were spread across the bottom of the excavation and exposed groundwater. Using imported backfill material and drain rock, a construction ramp was built into Ex C to allow the compactor to enter the excavation. Backfill material was placed in lifts and compacted to 10 inches below grade and the shoring was removed. Soil compaction tests were taken at the backfill surface and 3 feet below; the results were 95% and 90%, respectively. Six inches of aggregate base was placed on top of the backfill material and the compaction test results were 97%.

A four-inch thick fiber-reinforced concrete slab was poured at Ex C. Approximately 25 cubic yards of concrete was poured. A slump test was performed for every truck of concrete poured at Ex C. Test results and batch records are shown in Appendix 7. A medium to heavy broom finish was provided, contraction joints were saw-cut, and a curing agent was sprayed over the concrete to help retain moisture.

2.3 Excavation E

NRC located the four corners of Ex E from previous records and the contract drawings. The concrete surface was jack-hammered and removed. Approximately 40 tons of concrete were taken to Argent Materials, Inc. in Oakland, California for recycling.

Imported soil backfill material was delivered to the site and stockpiled near Ex E. Rockridge Geotechnical collected a sample of the backfill material on June 16, generated a compaction curve, and determined the optimum moisture content to be 10%.

The water pipeline shown on the contract drawings was found approximately four feet below the surface. NRC and Sierra West worked with Owens-Brockway personnel to locate the valves and shut off water to the pipeline. The pipe was maintained in place during the excavation and the impacted material was successfully removed around the pipe. The pipe was removed during the backfill operation to allow proper compaction in the area.

The underground brick bunker was excavated and the impacted material was removed. The design excavation depth was 12 feet below grade. Upon reaching this depth, groundwater was present in relatively small volumes and there remained a substantial amount of impacted material. CKG and Owens-Brockway decided to excavate an additional four feet to remove as much impacted material as

practical. Approximately 81 tons and 1460 tons were disposed of as cover and direct fill respectively at the Altamont Landfill. The additional excavation extended further into the groundwater and allowed for effective use of the ORC application.

Two soil samples (SS) and one groundwater (GW) sample were collected from the bottom of the excavation, as shown on Figure 2. Table 4 summarizes the primary constituents found in the samples. The laboratory report is included in Appendix 6.

Table 4: Excavation E Summary of Primary Constituents in Soil and Groundwater

Sample ID	Units	TPH(g)	TPH-Diesel	TPH-Motor Oil
EXE SS1	mg/Kg	750	11,000	12,000
EXE SS2	mg/Kg	1200	7500	6800
EXE GW1	µg/L	1000	540,000	670,000

Approximately 2,035 pounds of ORC were placed across the bottom of the excavation using the backhoe, and two feet of drain rock was placed in the excavation and compacted with the backhoe. Backfill material was compacted in 18 inch lifts. For safety reasons, the geotechnical engineer was not permitted to enter the excavation until backfill material was brought up to five feet below grade. Prior to testing, Rockridge Geotechnical observed compaction from the top of the excavation. On several occasions the engineer noticed soft pockets behind the tires of the compactor, as evidenced by pumping. When pumping increased, approximately 8 to 12 inches of backfill material was scraped from the top of the lift, allowed to aerate, and then re-compacted.

At approximately five feet below grade, Rockridge Geotechnical conducted soil compaction tests. The results showed 91% compaction and 15% moisture content, which were unsatisfactory compared to the required 95% compaction and 10% optimum moisture content. Rockridge Geotechnical advised that the backfill stockpile be mixed and aerated to help dry out the soil. Additional compaction tests were performed and NRC placed additional lifts. The results did not meet the 95% compaction or 10% moisture content requirements. Rockridge Geotechnical advised removing the placed backfill to five feet below grade, allowing the material to dry out and re-compacting in lifts again. NRC chose to import aggregate base material in lieu of the backfill material. Final compaction test results of the aggregate base material were 95% compaction. A report from Rockridge Geotechnical with additional details regarding compaction results is provided in Appendix 8.

Aggregate material was placed to within eight inches below grade. A trench was excavated at the location of the removed water pipeline. Approximately 12 inches of drain rock bedding material was placed in the trench and the pipe was re-connected with a sleeve coupling. A hydro test was performed to confirm that there were no leaks. Drain rock was placed around the pipe and approximately 1 to 2 feet above the pipe, and aggregate base material was placed and compacted to fill the trench. The trenched area backfill compaction was tested and had passing results of 95% and 96%.

Dowel holes were drilled 9 inches into the existing concrete and ASTM Grade 60 #8 rebar dowels were placed in each hole. Eight inches of fiber-reinforced concrete was placed over the excavated area. Approximately 25 cubic yards of concrete was poured. A slump test was performed for each truck of concrete poured at Ex E. Slump test results and batch records are shown in Appendix 6. A medium to heavy broom finish was provided, contraction joints were saw-cut, and a curing agent was applied to help retain moisture.

3. Final Inspection

On July 9, 2014 a final inspection of the construction site took place. CKG, Sierra West, NRC, and Owens-Brockway representatives were present. The inspection was successful and both excavation areas were accepted. The only remaining work item is to replace the Hi-Vac unit that was relocated at the beginning of the project. NRC will work directly with CKG and Owens-Brockway to re-install the Hi-Vac system at the Ex C area.

4. Daily Recordkeeping and Reporting

Sierra West kept a daily reports of construction activities at the site. Information provided in these reports includes the site's weather conditions during the day, the personnel and visitors on site, main equipment used, as well as description of construction activities. The daily reports are provided in Appendix 3. Relevant pictures of construction activities are provided in Appendix 9. Landfill disposal summaries are provided in Appendix 10.

Appendix 1: Project Team Contacts List

1. William (Bill) L. Boscacci
   Owens-Brockway
   O: (510) 436-2166
   M: (510) 774-6423

2. Christina Kennedy
   CKG Environmental, Inc.
   O: (707) 967-8080
   M: (707) 363-5740

3. Jeffrey C. Bensch, P.E.
   Sierra West Consultants, Inc.
   O: (916) 863-3220
   M: (916) 207-5706

4. Scott Norgren
   NRC
   O: (775) 473-3183
   M: (925) 787-6001

5. Katie Dickinson
   Rockridge Geotechnical
   O: (510) 420-5738
   M: (510) 504-4183

6. Terry England
   Testing Engineers, Inc.
   O: (510) 835-3142
   M: (510) 406-1517

7. Sheryl S. Skillern
   Oakland Fire Department
   O: (510) 238-7253
   M: (510) 755-5163

8. Robert Pringle (Lab Courier)
   McCampbell Analytical, Inc.
   M: (925) 768-6061

Appendix 2
UST Removal Permit

Oakland Fire Department, Fire Prevention Bureau
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032

(510) 238-3851
TTY (510) 238-6884

Inspection Work Order

Business Name:	OWENS-BROCKWAY GLASS CONTAINER INC.	Reason:	Tanks
Address:	3600 ALAMEDA AVE	Scheduled:	2014-05-23 1:30PM
Job (Insp Ref#):	2014-28529	Assigned To:	Skillern,Sheryl

Comments: 5/23/14 - UST Removal Application received via fedex w/ck#3216 for $1458.00, Jeffrey C. Bensch, P.E. w/Sierra West Consultants, Inc., Cell: 916-207-5706/ofc: 916-863-3220. hro

Invoice #	2014-01441	Applicant:	Jeffrey Bensch, P.E.
Invoice Amount	1,458.00	Applicant Ph#:	916-863-3220
		Contractor:	Sierra West Consultants, Inc.
		Contractor Ph#:	916-863-3220

Contact Name		Jeffrey C. Bensch, P.E
Field Contact #		916-863-3220
Inspection Service	Remove/Demolish	

REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
BY: Sheryl Skillern
TITLE: Senior Hazmat Insp
DATE: 5/27/14
ALL INSPECTIONS REQUIRE
48 HOURS NOTICE

May 21, 2014

REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
BY: Sheryl Skillern
TITLE: SENIOR HAZ MAT INSP
DATE: 5/27/14
ALL INSPECTIONS REQUIRE
48 HOURS NOTICE

Ms. Sheryl Skillern
Oakland Fire Department
Hazardous Materials Management Program
250 Frank H. Ogawa Plaza, #3341
Oakland, CA 94612

Subject: **Work Plan for Underground Storage Tank Removal**
Owens-Brockway Glass Container Corporation
3600 Alameda Avenue, Oakland, California 94601

Dear Ms. Skillern:

On behalf of Owens-Brockway Glass Container Corporation (Owners) and CKG Environmental, Inc., Sierra West Consultants, Inc. (Sierra West) is pleased to provide this work plan as partial fulfillment of the Oakland Fire Department's (OFD) Underground Storage Tank (UST) removal permit application package (Attachment A).

This work plan outlines the requirements to remove one UST located at the Owens-Brockway glass container manufacturing facility at 3600 Alameda Avenue in Oakland, California. The UST is being removed as partial fulfillment of the January 17, 2014 *Revised Corrective Action Plan* approved by the Alameda County Environmental Health Department (ACEHD) in their letter, dated March 10, 2014, included as Attachment B.

1.0 CURRENT UST STATUS

The UST was used to store fuel oils, possibly diesel fuel or Bunker C fuel oil. The tank age is uncertain, although it is understood to be a 10,000 gallon tank, approximately 37 feet long and 84-inches in diameter. The glass manufacturing facility was constructed in the 1930's and is still an active facility. The tank was installed in 1937. The property boundary and approximate tank location are shown on Figure 1. The detailed tank location is shown on Figure 2 with respect to nearby buildings and other facilities.

2.0 PROJECT PLANNING

Project planning includes preparing a health and safety plan, preparing for erosion control measures, locating buried utilities and obtaining necessary permits.

Health and Safety Plan

The Health and Safety Plan for environmental work at the property is included as Attachment C (CKG Environmental, Inc., 2014). The health and safety plan has been prepared in general accordance with requirements set forth in Title 29 of the Code of Federal Regulations, Part 1910.120 (29CFR1910.120) and Title 8 of the Code of California Regulations, Section 5192 (8CCR5192). Additionally, each subcontractor that may come into contact with impacted soils or groundwater will be required to prepare their own task specific health and safety plans.

REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
BY: Sheryl Skillern
TITLE: Senior Haz Mat Insp
DATE: 5/22/14
ALL INSPECTIONS REQUIRE
48 HOURS NOTICE

Erosion Control

The work area is relatively flat and paved with asphalt. The extent of disturbed area will be minimized. The maximum open excavation area is expected to be less than 1,000 square feet. As such, erosion is expected to be minimal. In addition, excavation activities are likely to occur during the dry season (June 2014). Nonetheless, measures will be taken to limit erosion from disturbed areas and stockpiles.

The facility maintains an active storm water control system. Any runoff or groundwater from the excavation area will be controlled and routed to the onsite treatment facilities.

Permits and Buried Utilities

The Bay Area Air Quality Management District (BAAQMD) will be notified of the planned tank removal activities. An Underground Storage Tank System Closure Permit Application (Attachment A) will be submitted to the City of Oakland Office of the Fire Marshall. Tank removal activities will begin following receipt of the tank closure permit.

An independent buried utility locating service (Cruz Brothers) performed site surveys to identify buried utilities as part of the design process. Underground Service Alert (USA) was also notified, although their work does not include private property. Independent locates will be conducted again prior to beginning the excavation activities.

3.0 TANK REMOVAL

Sierra West will obtain the required tank removal permit from the OFD before proceeding with the work. Sierra West will also notify the Bay Area Air Quality Management District (BAAQMD). The work will be conducted in accordance with BAAQMD Regulation 8 Organic Compounds, Rule 40 Aeration of Contaminated Soil and Removal of Underground Storage Tanks (Attachment D).

Two fire extinguishers with a minimum rating of 20 BC will be maintained within 50 feet of work operations. A NO SMOKING sign will be posted at the Site. No welding or other ignition sources will be present during tank removal.

The tank will be inspected to verify that no liquids are present. If present, liquids and sludge will be removed to the greatest extent possible with a system pump and hand pump. The tank will be triple-rinsed. All liquids removed from the tank including rinsate are considered hazardous waste and will be handled and disposed of appropriately. After triple rinsing, the tank will be temporarily purged of flammable vapors with solid carbon dioxide (dry ice) at a ratio of 10 pounds of dry ice per 1,000 gallons of tank volume. Dry ice will be deposited in appropriate tank openings at least 1.5 hours prior to tank removal to insure sufficient purging and venting. Only dry ice will be used to purge vapors.

A photoionization detector (PID) will be used to evaluate the tank vapors. If hydrocarbon concentrations are greater than 5,000 ppm expressed as methane, then the Oakland Fire Department will be notified before continuing. The contaminated vapors shall be removed by vapor freeing or ventilation methods in accordance with BAAQMD regulations prior to excavation activities until hydrocarbon concentrations are less than 5,000 ppm expressed as methane, or as otherwise instructed by the Oakland Fire Department.

Immediately prior to tank removal, the lower explosive limit (LEL) and oxygen levels (O2) inside the tank will be measured with a metering device designed and calibrated to accurately assess those indicators. The tank will be made inert or be degassed to either of the following standards:

A. The concentration of flammable vapor will not exceed 10% of the LEL of the hazardous material, or
B. The oxygen concentration will not exceed 5%.

A PID will be used to monitor the work area and the excavated soil for the presence of hydrocarbons. If impacted soils are encountered as determined by the PID readings, then the BAAQMD will be notified and appropriate procedures will be followed to ensure compliance Regulation 8, Rule 40.

Excavated soil will be stockpiled on impervious material directly adjacent to or in the immediate vicinity of the tank excavation. The soils will be securely covered with a material impervious to inclement weather.

Depth to groundwater is expected to be ten to 12 feet below ground surface. As such, dewatering of the excavation is expected. Any groundwater removed from the excavations will be routed to the onsite wastewater treatment facility.

The excavations will be conducted in accordance with California Division of Occupational of Safety and Health (Cal/OSHA) requirements. Shoring is expected. Entrance into the excavations is not expected, although if necessary, confined space permitting will be required.

4.0 SAMPLING AND ANALYSIS PLAN

Soil samples will be collected from the excavations to evaluate whether chemical impacts are present in the subsurface. A minimum of two soil samples will be obtained from directly beneath the bottom of the tank, one at each end of each tank. Additional samples may be collected if substantial over excavation is conducted beneath the tank.

Soil samples from the UST excavation will be brought to the surface using a backhoe or excavator and will be collected by field personnel from the backhoe or excavator bucket. Soil samples will be collected by driving a pre-cleaned, brass or stainless-steel sample liner into the soil until full. Following sample collection, the ends of the liner will be covered with Teflon® sheets, capped with polyethylene lids, and then sealed with duct tape.

If groundwater is present in the UST excavation, a sample will be collected for laboratory analysis. The grab groundwater sample will be collected using a disposable bailer or a dipper/sampler on an extension pole. Water samples will be placed in sample containers appropriate to the required analyses.

Once collected, the soil and groundwater samples will be labeled and immediately placed in an ice-cooled, insulated chest. A chain-of-custody record will be completed for the samples and will accompany the samples until receipt by the laboratory.

The soil sample(s) and groundwater sample (if collected) will be submitted to a California-certified laboratory to be analyzed for total petroleum hydrocarbons as gasoline, diesel and motor oil by EPA Method 8015; a full scan target list VOCs, benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, methyl-tert butyl ether (MTBE), and lead scavangers (ethylene dibromide and 1,2-dichloroethane) by EPA Method 8260B, total lead by EPA Method 6010, 5 Metals (Cd, Cr, Pb, Ni, Zn) by EPA Method 6010B, 16 Priority Pollutants, including PAHs and creosote by EPA Method 8270, and PCBs using EPA Method 8082.

5.0 CONTINGENCY FOR ADDITIONAL EXCAVATION

If impacted soil is encountered in the tank excavation, additional excavations may be conducted, with approval from the Owners and OFD, to efficiently address residual contamination. In such case, BAAQMD would be notified and appropriate procedures would be followed to ensure compliance with BAAQMD Regulation 8/Rule 40.

6.0 PROFILING AND DISPOSAL

The emptied tank will be rendered non-reusable while on-site. The removed underground storage tank is considered hazardous waste and will be transported and disposed of accordingly. The tank will be transported under hazardous waste manifest to a state-permitted TSDF facility.

Soil samples have been recently collected for pre-profiling the proposed excavated materials and the laboratory results are pending. Samples are being analyzed using the methods listed in Section 4.0, and additional methods as needed to meet the profile requirements of either Vasco Road or Altamont disposal facilities. If the analytical results indicate that the tank contents and/or excavated soil are non-hazardous, then these materials will be transported to the selected landfill facility. A non-hazardous manifest or weight ticket from the receiving facility will be used to document the disposal. However, if the analytical results indicate that the tank contents and/or excavated soil are hazardous, then these materials will be transported under uniform hazardous waste manifest to an approved landfill or treatment facility.

7.0 EXCAVATION BACKFILL

The tank excavation will be backfilled and compacted using clean imported backfill consisting of aggregate base or crushed rock. With OFD approval, excavated tank overburden material may be re-used for backfill if laboratory results are available and indicate that all analyzed constituents in the material are below applicable clean-up standards. The surface pavement will be restored with a 4-inch layer of hot asphalt installed in two 2-inch lifts.

8.0 REPORTING

A tank closure report will be prepared documenting tank removal activities, conditions observed at the Site, and the soil and groundwater sampling methods and results. The report will include a written overview of procedures and activities, figures and tables as necessary for clarity of presentation, copies of chain-of-custody records and laboratory analysis reports, and copies of permits. Documentation of proper disposal activities will be also be provided in the report.

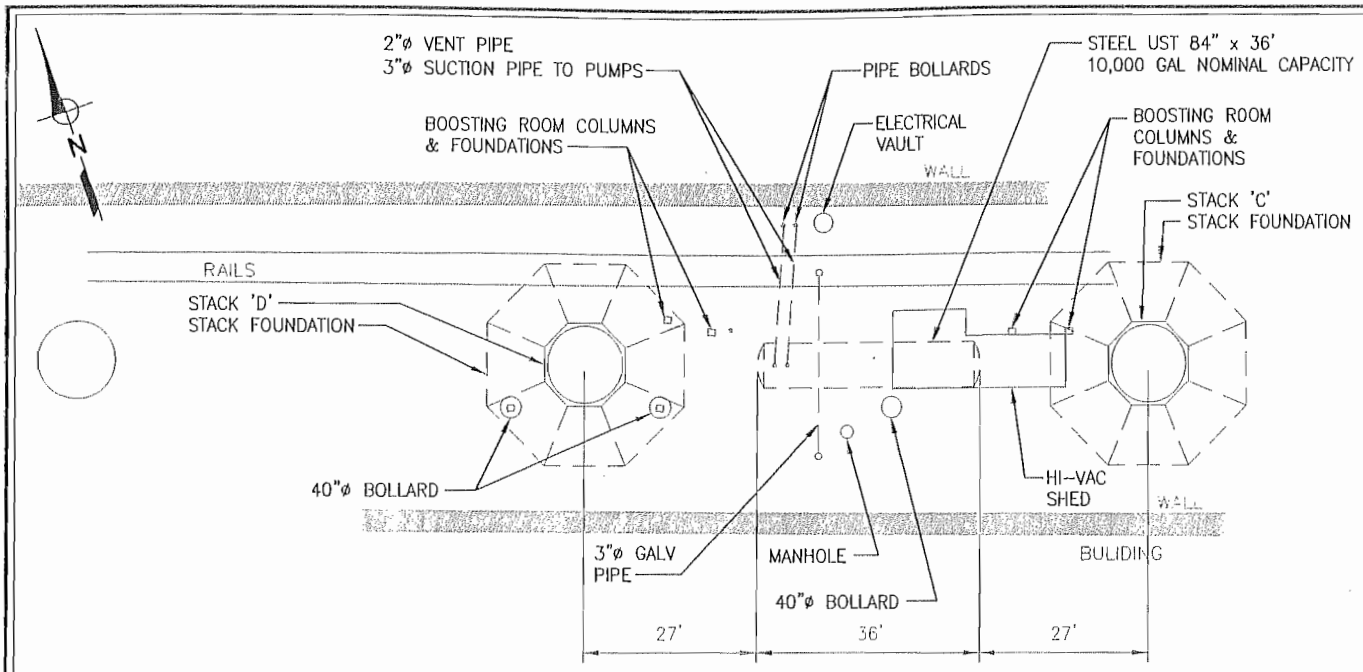
Sierra West appreciates the Oakland Fire Department's assistance with this project. If you have any questions, please contact Jeff Bensch at 916-863-3220.

REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
BY:
TITLE: Senior HAZMAT Insp
DATE: 5/22/14
ALL INSPECTIONS REQUIRE
48 HOURS NOTICE

Sincerely,
Sierra West Consultants, Inc.

Jeffrey C. Bensch, P.E.
Principal Engineer

Cc: Bill Boscacci, Owens-Brockway Glass Container Corporation
Chris Kennedy, CKG Environmental, Inc.



EXCAVATION C

SCALE 1"=30'

0 15 30

SCALE IN FEET

EXCAVATION C REQUIREMENTS

1. REMOVE EQUIPMENT INSIDE THE HI-VAC SHED AND RELOCATE AT STORAGE LOCATION ON THE PLANT PREMISES AS DIRECTED BY OWNER.
2. REMOVE HI-VAC SHED. TRANSPORT OFF SITE, RECYCLE OR OTHERWISE DISPOSE OF ALL MATERIALS.
3. CLEAR SURFACE AREA OF BOLLARDS, RAILROAD TRACKS, AND APPURTENANT PIPING TO THE TANK THAT INTERFERE WITH EXCAVATION REQUIREMENTS.
4. PROTECT FOUNDATIONS, SUPPORT STRUCTURES, BUILDINGS, MANHOLES, VAULTS, AND OTHER PERMANENT FACILITIES SHOWN ON THE DRAWINGS OR VISIBLE IN THE FIELD.
5. EXCAVATE SOIL MATERIALS TO EXPOSE TOP OF UNDERGROUND STORAGE TANK. REMOVE, TRANSPORT, AND DISPOSE OF MATERIALS AT LICENSED AND PERMITTED LANDFILL FACILITY.
6. REMOVE RESIDUAL LIQUIDS FROM INSIDE THE TANK. ANTICIPATE 4,000 GALLONS OF WEATHERED, AGED, DIESEL FUEL, OR BUNKER C FUEL OIL. CONTAIN, TRANSPORT, DISPOSE OF OR RECYCLE RECOVERED RESIDUAL LIQUIDS.
7. TRIPLE RINSE AND DEGAS UNDERGROUND STORAGE TANK. CONTAIN, TRANSPORT, AND DISPOSE OF ALL WASTEWATERS.
8. REMOVE TANK, TRANSPORT, AND RECYCLE AT APPROPRIATELY LICENSED STEEL RECYCLING FACILITY.
9. EXCAVATE SURROUNDING SOILS TO A DEPTH OF 12 FEET BELOW EXISTING GRADE. PROVIDE SHORING AND DEWATERING TO MAINTAIN A SAFE AND STABLE EXCAVATION. DEPTH TO GROUNDWATER IS APPROXIMATELY 12 FEET.
10. LOAD, TRANSPORT, AND DISPOSE OF EXCAVATED SOILS AT LICENSED AND PERMITTED LANDFILL FACILITY.
11. APPLY OXYGEN RELEASE COMPOUND TO THE BOTTOM OF THE EXCAVATION.
12. PLACE 2 FEET OF ROCK BEDDING MATERIAL
13. PLACE AND COMPACT IMPORTED FILL MATERIAL TO 8 INCHES BELOW FINISHED GRADE
14. PLACE AND COMPACT 8 INCHES OF CLASS 2 AGGREGATE BASE
15. RESTORE SURFACE CONDITIONS TO MATCH EXISTING.

REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
BY: [signature]
TITLE: SENIOR HAZ MAT INVS
DATE: 5/27/14
ALL INSPECTIONS REQUIRE 48 HOURS NOTICE

CKG Environmental, Inc.

Date:

SIERRA WEST CONSULTANTS, INC.

EXCAVATION C-PLAN

OWENS-BROCKWAY GLASS CONTAINER, INC.
3600 ALAMEDA AVE
OAKLAND, CALIFORNIA

FIGURE 2

C:\WORK\SIERRA WEST\14 OWENS-BROCKWAY\Owens-Brockway.dwg 5-20-14 05:59:42 PM Mary

CITY OF OAKLAND
FIRE PREVENTION BUREAU
250 Frank Ogawa Plaza, Suite 3341
Oakland, California 94612-2032
(510) 238-3851

REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
BY:
TITLE: SENIOR HAZ MAT INS
DATE: 5/27/14
ALL INSPECTIONS REQUIRE
48 HOURS NOTICE

APPLICATION for PERMIT to INSTALL, REMOVE or REPAIR TANKS
In the CITY OF OAKLAND

Request Submittal Date: May 21, 2014

PLEASE CIRLCE APPROPRIATE ACTIONS: Application is hereby made for permit to:

(a) Remove (b) Install (c) Repair (d) Modify (e) Abandon/Close in Place A

(a) Gasoline (b) Fuel oil (c) Diesel (d)____ tank(s) and excavate, commencing:

(a) four feet inside the curb line* (b) inside the property line; (c) aboveground: (d) underground tank(s)
*inside curb line, please attach copy of sidewalk/excavation permit from PLANNING AND BUILDING

on the east side of Alameda St. (Ave) 450 feet south of Fruitvale St. (Ave)

Site Address: 3600 Alameda Avenue Present storage Residual Fuel Oil

Owner: Owens-Brockway Glass Container Corp. Address 3600 Alameda Avenue Phone 510-436-2000

Applicant: Sierra West Consultants, Inc. Address 4227 Sunrise Blvd., #220, Fair Oaks, CA 95628 Phone 916-863-3220

Sidewalk surface to be disturbed NA X Number of Tanks 1 Capacity 10,000 Gallons ea.

Remarks Work is being performed pursuant to a Corrective Action Plan, dated 1/17/2014, approved by Alameda County Environmental Health Department.

Signature

PLEASE ATTACH/SUBMIT: (All applicants must have a City Business License Permit)

- (2) Copies of Closure Plans for underground tank removal (s)
- (2) Sets of plans and (1) copy of specifications for above ground tank removal
- (2) Sets of plans and (2) sets of application packets for underground tank installation/modifications
- (2) Sets of plans for aboveground tank installation and specifications
- copy or prepare to show Planning and Building approval for aboveground tank removal and tank repair

NOTE: FOR TANK INSTALLATION PLEASE SUBMIT THIS APPLICATION FORM ALONG WITH A APPLICATION FOR PERMIT TO OPERATE, MAINTAIN OR STORE

FOR OFFICE USE ONLY

Permit No.____ Amt. Recv'd____ Date Issued:____

Copies to: Electrical Inspection ck#____ Cash____

Receipt#____ Recv'd by:____

FACILITY INFORMATION

Facility/Residence Name Owens-Brockway Glass Container Corp. Business Type Manufacturing
Site Address 3600 Alameda Avenue City Oakland Zip 94601
Contact Person Bill Boscacci Title Env. Manager Phone 510-436-2166
E-Mail bill.boscacci@o-i.com Cell Phone 510-774-6423
Owner, Agency, or Corporation Name Owens-Brockway Corporation Phone 510-436-2000
Mailing Address 3600 Alameda Avenue City Oakland State CA Zip 94601
EPA ID Number CAT000618918
Note: Include "Proof of Financial Responsibility"

CONTRACTOR REMOVING TANK(S) AND PIPING:

Contractor Sierra West Consultants, Inc.
Contract Person Jeffrey Bensch Phone 916-863-3220
Business Address 4227 Sunrise Blvd., Suite 220 City Fair Oaks, CA Zip 95628
State Contractors License 863096
Note: Attach a copy of Contractors License, Hazardous Materials Certification, and Workers Compensation

HAZARDOUS WASTE HAULERS:

Hazardous Waste Hauler, Tank(s) NRC EPA ID # CAR 000030114
Business Address 1605 Ferry Point City Alameda, CA
Contact Scott Norgren Phone 925-787-6001
Tank(s) and piping destination Schnitzer Steel, 1101 Embarcadero West, Oakland, CA 94607
Hazardous Waste Hauler (Rinsate) NRC EPA ID # CAR 000030114
Business address 1605 Ferry Point City Alameda, CA
Contact Scott Norgren Phone 925-787-6001
Note: Include Hauler License No. 201800 License Exp. Date 3/31/2015

SAMPLE COLLECTION AND ANALYSIS:

Sample Collector Chris Kennedy, or representative Company CKG Environmental, Inc.
Address P.O. Box 246 City St. Helena, CA 94575 Phone 707-363-5740
Soil/Water Analysis Laboratory McCampbell Analytical
State certification No. 12283CA Contact Angela Rydelius Phone 877-252-9262
Business Address 1534 Willow Pass Road City Pittsburg, CA Zip 94565

TANK(S) INFORMATION

	TANK SYSTEM: SIZE (GALLONS)	TANK CONSTRUCTION	SUBSTANCE(S) PREVIOUSLY CONTAINED
TANK 1	10,000	Steel	Fuel Oil
TANK 2			
TANK 3			
TANK 4			

REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
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REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
BY: [signature]
TITLE: SENIOR HAZ MAT INSP
DATE: 5/27/14
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"PROCEDURES TO CLOSE UNDERGROUND STORAGE TANK(S) SYSTEMS"

1) Submit to the City of Oakland Office of the Fire Marshal (OFM) three (3) completed **Underground Storage Tank System Closure Permit Application.** Prepare State Water Resources Control Board Facility and Tank Pages. These Forms are available from the OFM or you may download the forms by logging on to www.unidocs.org .
   - Include a complete **Tank Page** for each tank to be closed.
   - Include a complete **Facility Page (if)** tank to be closed is home heating oil, or non-regulated.
   - One complete copy of your approved plan must be at the construction site at all the times.
   - Any cutting into tanks requires OFM approval.

2) Include with the submitted application a check payable to the City of Oakland for the amount of the designated fee, workmen's compensation insurance verification, and plot plan drawing. The drawing consists of a scaled view of the facility which shows the tank(s) location and the following information:
   - Scale
   - North Arrow
   - Property Line
   - Location of structures near the tank(s)
   - Location of relevant existing equipment (including the tank(s) to be removed), associated piping, and fuel dispensers
   - Area Roadways
   - Underground conduits, sewers water lines utilities
   - Existing wells; drinking, monitoring, etc.
   - Depth of ground water

3) The OFM must be notified a minimum of 48 hours, two (2) days prior to commencement
of work in order to schedule a removal inspection. The removal inspection appointment **must be confirmed with the district inspector**. A representative of the OFM must be present at the time of removal.

4) A site specific Health and Safety Plan must be submitted for review and available at the job site. Underground Service Alert must be contacted at 800-642-2444 prior to the start of any excavation.

5) A Tank Closure Report must be submitted within 30 days of removal/closure operations completed, containing a general description of the closure activities indicating:
   - Description of tank, fittings and piping conditions. Size and former contents; notes any corrosion, pitting, holes. If any leak(s) are suspected from any tank an unauthorized Leak/Contamination Report form must be included.
   - Description of the excavation itself. Include tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential pathways the depth to any observed ground water,

locations of stained or odor-bearing oil, and descriptions of any observed free product or sheen.

- Detailed description of sampling methods, i.e. – backhoe bucket, drive sampler, bailer, bottles, sleeves.
- Description of any remedial measures conducted at the time of removal.
- To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depth, and tank and piping locations include a copy of the plot prepared for the Tank System Closure Plan Permit Application under item # 2).
- Chain of custody records.
- Copies of signed laboratory reports.
- Copies of TSDF to Generator manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.).
- Documentation of the disposal of/and volume and final destination all non-manifested contaminated soil disposed offsite.

The Closure Report and conclusions are subject to critical review; and the report must be approved by the OFM to be recognized as valid.

6) An additional hourly fee will be charged for inspection time exceeding four (4) hours.

The listed items are general closure requirements, modifications may be necessary in certain situations. A deficient application or incomplete information will only cause a delay in the permit process, if you have any questions or need assistance call the OFM at (510) 238-3927. The Underground Storage Tank System Closure Permit **expires 365 days** from the approval date. If the tanks have not been closed/removed within **365 days**, a new closure permit application and fees are required. The closure/removal activities must be scheduled **48 hours** in advance.

REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
BY: [signature]
TITLE: Senior HAZ Mat Insp
DATE: 5/27/14
ALL INSPECTIONS REQUIRE
48 HOURS NOTICE

Applicant Declaration:

I certify the application information is correct and factual. I declare that I have read and will follow the "procedures to Close Underground Storage tank(s) Systems." I further agree to comply with all applicable City of Oakland Ordinances; Fire Code; Health and Safety Code Chapter 6.7; Title 23, California Code of Regulations.

Applicant Jeffrey Bensch (Print) Applicant _____ (Signature) Date 5/20/2014

"This box for OFM use only"

Comments _____

Inspectors Signature _____ Approval Date 5/27/14

HEALTH AND SAFETY PLAN
TARGETED EXCAVATIONS

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

REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
BY: [signature]
TITLE: Supvg HAZ MAT Insp
DATE: 5/27/14
ALL INSPECTIONS REQUIRE
48 HOURS NOTICE

CKG Environmental, Inc.
P.O. Box 246
St. Helena, CA 94574

Appendix 3
Daily Construction Observation Reports

CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 06/16/14

Contractor: NRC

Page: 1 of 3

Day: Mon, Jun 16th Weather: Fair Temp: 70° Conditions: slightly windy

On-Site Observer: Yousuf Kaleem Arrival: 8:45 AM Departure: 4:00 PM

Visitors:

Work Force: Personnel, Company	Comments
Mike McClish	
Scott	
1 Laborer	
Bill	
Katie, Ridgepoint Geotech	

Equipment:

CAT Excavator 330 B
CAT 420 E "D-Series"

Activities

Looked @ Ex. C @ 9:20 AM
- Cut through pothole, water found @ +/- 4'
- Dewatering started @ 8:30 AM, Dropped 2'-3' by 8:45 (real easy to dewater)
- Backfill material is on sight (slightly moist/clayey)
- Aggregate base Fill brought @ around 9:30 AM

- Ex E: 27' X 58' 8" +/- ~~slab~~ concrete slab w/fiber reinforcement
- Dug 3' +/- hole @ corner of Ex E → Exposed soil heavily contaminated w/oil (flowing liquid)
- Fiber Backfill as well

@ 10:30 AM, water @ Ex C is slightly less. Water level does not recharge fast.

SIERRA WEST CONSULTANTS INC

Project: Underground Facilities Removal Project	Date: 06/06/14 (M) T W T F S S
Client: CKE Environmental Inc.	Location: Oakland, CA
Observer: Yousuf Kaleem	Weather: Fair, 70°, Slightly Windy

Description:

@ 10:40 AM backfilling of pothole @ Ex. C began

@ 10:50 AM backfilling 50% complete

Discussed that backfilling was done to support larger excavation/drilling equipment.

Note:

Water from Ex C collected in bucket prior to backfilling. Bucket water will be used as last resort sample if neccessary.

@ 10:45, base material stockpiled @ site. (Near Ex. E)

@ 10:50 more drainage rock arrives

@ 11:15 almost done backfilling @ Ex. C

Jeff wanted to discuss excavation details for site E w/ Scott. Scott wasn't on site, so left for lunch. @ 11:30

@ 12:45 Returned from lunch

Mike

Began further digging @ Ex E to check for oil. Dug 6' trench

Oil found within 3' of surface.

No brick from bunker visible yet

Water pipe line going through Ex. E. Bill says we can turn off valves.

-Pipeline approx 40' long

@ 1:50 pm observed Excavation @ Ex. C

@ 2:10 began shutting valves for line going throug Ex. E

@ 2:15 opened fire hydrant to see if water was shutt off.

Test failed!

See Reverse ↳

Project:	Date:	M	T	W	T	F	S	S
Client:	Location:							
Observer:	Weather:							

Description:

@ 2:15 met w/geotech eng. Katie from Ridgeport Geotech
Backfill stockpile material was checked.
Katie recommended 1'-2' lifts (18") during compaction process
Equipment recommendation: sheep roller on backhoe

@ 2:30 tried to find Additional Valves to turn off.

@ 3 found another valve and began closing

@ 3:10 went to check Ex C dimensions
-Could not get accurate measurement due to excavation still taking place.

@ 3:30 2nd Fire hydrant test passed. Water is shutoff.
-Tomorrow pipe running through Ex. E will be cut.

Notes: Excavation of ~~Ex~~ E scheduled to start @ 7 AM
-Shoring will not occur. Instead, slope to bottom surface
-Slope is 3' wide from edges.
- First 4' of material will be excavated and mixed with dry material
-Direct load and haul away, No stockpiling of excavated material

CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 6/17/14

Contractor: NRC

Page: 1 of 3

Day: Tue June 17th Weather: Fair Temp: 75° Conditions: Slightly Windy

On-Site Observer: Yousuf Kaleem Arrival: 7:30 AM Departure: 4:20 PM

Visitors:

Rob (from testing lab)

Work Force:

Personnel, Company	Comments
Bill	
Scott	
mike	
1 Laborer	
Chris	

Equipment:

CAT 330B Excavator
Forklift
CAT 420B - D series
Bobcat Sweeper

Activities

Water pipeline is ~~actually part of pipeline~~. ~~Oil~~ Impacted soil is dripping from
pipeline partially exposed
Bunker can be slightly seen Excavation E started @ around 7AM
2 Palettes of ORC on site 46 55lb containers
11 trucks have already left 20 Tons a truck approx.
Plan is to dig to 14' but include ~~several~~ 16 ft holes to allow groundwater
to cover bed.
12 @ 8:08 1 truck arrives @ 8:11 leaves
13 @ 8:20 1 truck arrives @ 8:26 leaves

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CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project
Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.
Engineer: Sierra West Consultants, Inc.
Date: 6/17/14
Contractor: NRC
Page: 2 of 3

On-Site Observer: Yousuf Kuleem

Activities

@ 8:15 observed ~~excavation~~ drilling @ Ex C
- Spoke w/ laborer and double-checked width at Ex C
- want 11'
- measured and confirmed width

14 @ 8:37 1 truck Arrives leaves @ 8:41 This was 1st truck to leave

@ 8:46 measured Bunker, bottom of bunker about 7½' deep

@ about 12'-15' Slight amount of water and unknown liquid starts flowing from side of excavation - Very slow but steady flow

15 @ 9 AM truck arrives leaves @ 9:06
16 @ 9:06 truck arrives " @ 9:10
17 @ 9:08 truck arriving " @ 9:15
18 @ 9:13 " " " @ 9:18
19 @ 9:13 " " " @ 9:22
20 @ 9:30 " " " @ 9:35
21 @ 10:06 " " " @ 10:10

soil
@ 9:40 took two samples from Ex E SS1 Lab will come pick up by 2pm

@ 10:41 observed Ex C progress
- Eddie is clearing concrete rubble and stockpiling next to glass bunkers

@ 11:20 AM took waters samples from Ex E
- used bailer to capture GW (Ex E GW2)

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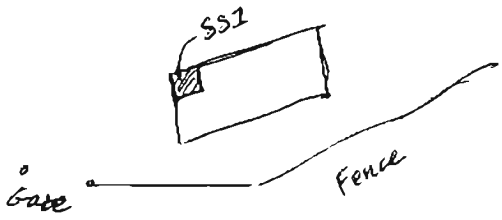
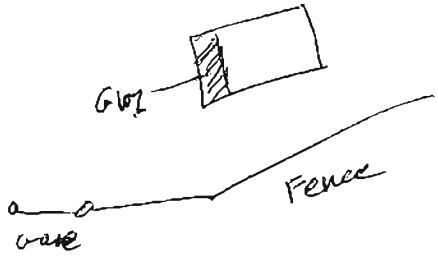
Ex E SSI Location



Ex E GWI Location



CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project
Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.
Engineer: Sierra West Consultants, Inc.
Date: 6/17/14
Contractor: NRC
Page: 3 of 3

On-Site Observer: Yousef Kaleem

Activities

77 Trucks left by 11:45 AM
~~30~~ 29 green, 30 white, 31 white, 32 Red.
Lunch @ 12:05 PM
Returned from lunch @ 1:05 PM

@ 1:08 Observed Ex C
- Finishing drilling through concrete (edging out excavation site)

@ 1:35 gave samples to Rob
- will come tomorrow for 2nd SS and Ex C GW1

@ 2:10 Excavation E about 75% complete

~~Portions~~ Portions of Ex E has caved in @ sides. Will clear out fallen soil tomorrow
@ 3:35 sheepsfoot rollers brought to site

Notes: Bucket should be ready for Rob tomorrow
Will take Ex E SS2 and Ex C GW1
Will ask Scott for receipts
Ex C and backfill set for tomorrow

@ 3:50 Site cleaning began. Sweeping around Ex E

Total loads for the day: ~~49~~ 46 Hauled and dumped
3 pre loads
49

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CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 6/18/14

Contractor: NRC

Page: 1 of 3

Day: Wed, Jun 18th Weather: ~~Fair~~ Fair Temp: ~~70~~ 80-90° Conditions: Sunny, Hot

On-Site Observer: Youssef Kaleem Arrival: 7:00 AM Departure: 1:15 PM

Visitors:

Sheryl
Katie
Peter

Work Force:	Personnel, Company	Comments
Scott		
Mike		
Eddie		
Katie	Ridgeport Geotech	
Sheryl	Fire Department Inspector	
Peter	Ridgeport Geotech	

Equipment:

CAT Excavator 330 B
CAT 420 D "E series"
CAT Sheepsfoot Roller

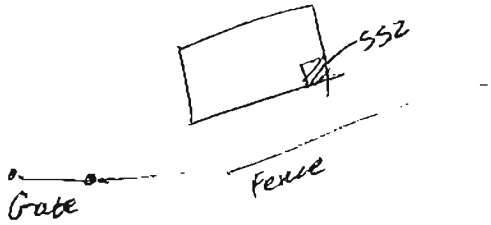
Activities

Continuing to excavate Ex E and haul out in trucks (no stockpiling)
-Overnight a decent amount of soil collapsed from sides
@ 7:15 Observed Ex C. Drilling through concrete still
@ 7:25 Katie from Ridgeport Geotech arrived
- thinks soil backfill might be too wet need about 10% moisture
-aeration might be required
- Katie left site after 15/20 min since backfill didn't start yet
@ 8:30 Observed Ex C
- Clearing out concrete rubble
@ 9:00 AM took Ex E 552
@ 9:42 Began pouring ORC into Backhoe
HHT HHT III Truck tally

SIERRA WEST CONSULTANTS

6/18/14

Ex E SS2 Location



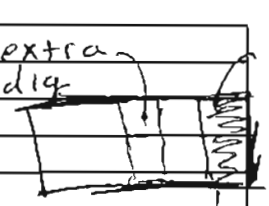
CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project
Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.
Engineer: Sierra West Consultants, Inc.
Date: 6/19/14
Contractor: NRC
Page: 2 of 3

On-Site Observer: _____

Activities

@ 10:00 met with Fire Rep
-showed her Ex E & Ex C



@ 10:00 began pouring ORC at one side of pit 50%
-poured gravel for that side as well so dirt from sides would not collapse onto ORC

@ 10:15 began digging middle of Ex E to expose more water
-lots of soil caving from sides

@ 10:18 spoke with Rob. He will come soon to collect Ex E SS2
-will possibly collect ~~Ex C~~ Ex C GW2 later during day

@ 10:50 began pouring second round of ORC into Backhoe

@ 11:00 poured ORC through rest of pit
@ 11:05 began backfilling with gravel

@ 11:35 additional truck of gravel arrives

@ 11:45 loaded and hauled concrete rubble stockpile near Excavation C

@ 11:50 Observed Site C
NO Activity
-Concrete surface completely removed

Lunch from 11:55 - 12:55 PM

@ 1:05 Plain Rock unloaded ~~@~~ near Ex C and concrete rubble loaded and hauled
@ 1:00 Power from Ridge Pit
@ 1:10 Gave Ex E SS2 to Rob
Note: Did NOT give Ex C GW1 sample to Rob today, will wait until excavation starts

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CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
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Date: 6/18/14

Contractor: NRC

Page: 3 of 3

On-Site Observer: _____

Activities

Peter said soil is too wet, will need to be aerated.

@ 1:20 aeration begun
- ~~Spreading~~ soil backfill on top of gravel bed to aerate in heat

Gravel Placement @ Ex E is complete
- Compacted with Backhoe and gravel bed seem well compacted

Moving Remaining gravel to Ex C

@ 2:10 Katie returned to Observe soil Placement @ Ex E

Mike is building a ramp to use sheepsfoot

@ 3:25 Mike dismantles dirt ramp, Sheepsfoot is in Ex E pit

@ 3:40 Mike begins compacting

Dumps Today: 23 loads

No receipts yet, Scott needs to make copies

SIERRA WEST CONSULTANTS, INC

CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 6/19/14

Contractor: NRC

Page: 1 of 4

Day: ~~Wed~~ Thu, June 19th Weather: Warm Temp: 75° Conditions:

On-Site Observer: Yousuf Kaleem Arrival: 6:15 AM Departure: 3:30

Visitors:

Work Force:	Personnel, Company	Comments
Rob	NRC McClish	
Mike	~~NRC~~ McClish	
Scott	NRC	
Eddie	NRC	
Katie	Ridgeport Geotech	

Equipment:

CAT Excavator 330 B
CAT 420 D
CAT Sheepsfoller

Activities

@ 6:15 AM Nobody on site
@ 7:00 AM only Eddie from NRC is on site
@ 7:15 AM Spoke w/ Mike about cutting the pipe. Will make a small slump and pump excess water

@ 7:30 began setting up piping for ~~pump~~ dewatering.

@ 7:37 began dewatering corner where GW rose through gravel
@ 7:57 most of the water from corner is gone.

@ 8:05 wrapped chain around pipe and tied it to backhoe on excavator
@ 8:09 began sawing pipe
@ 8:10 small stream of water starts flowing out of cut in pipe
- Note: Pipe is not completely sawed off yet

SIERRA WEST CONSULTANTS, INC

CONSTRUCTION OBSERVATION REPORT
(Continued)

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Owner: Owens-Brockway Glass Container
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Date: 6/14/2014
Contractor: NRC
Page: 2 of 4

On-Site Observer:

Activities

@ 8:20 Katie arrived

@ 8:45 about 75% of pipe cut through

@ 8:52 pipe is cut through and completely removed
- only needed to saw one end. Other end was pulled out by using the chain and backhoe
- not much water came out from other end

@ 8:58 began scooping out wet dirt and gravel from muddy area underneath pipe.

@ 9 began placing gravel to replace wetted area
- compacted w/ backhoe

Note: wet dirt that was scooped out is being moved to another location on site and then will be hauled off.

@ 9:19 began pouring soil over gravel and compacting
Lift thickness is 18-in Moisture content look good to Katie
First lift done @ 9:50

@ 10:25 poured more gravel ~~over~~ under sawed off pipe area.

@ 10:30 second lift complete.
@ 11 AM on fourth lift

Note: Heights are being measured and confirmed between lifts

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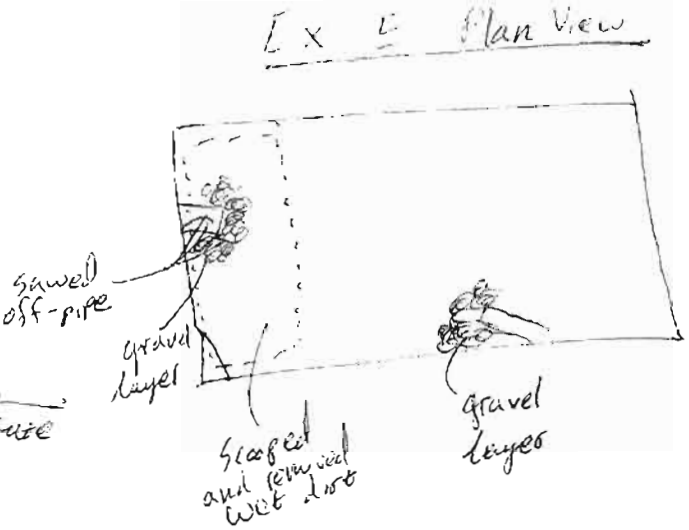
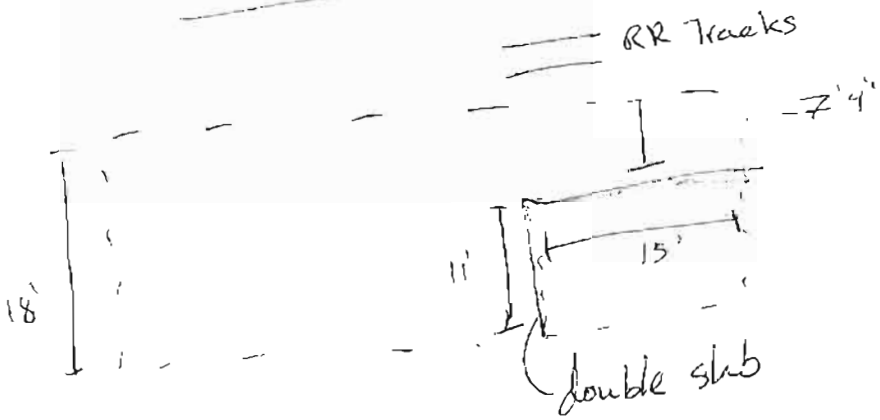
5/19/14

Ex E Plan View



Ex C Plan View



SIERRA WEST CONSULTANTS, INC.

FIELD OBSERVATIONS

Project: UFR Project	Date: 6/19/14	M	T	W	T	F	S	S
Client: CRC	Location:							
Observer: Yousuf Kaleem	Weather:							

Description:

@ 10:30 walked over with Scott and Eddie to mark off railroad removal.

Railroad ties extend about ~~6~~ 18 inches from rail (See below)

Scott told Eddie to lookout for footing foundations and electrical housing underground.

Only drill ~~enough to~~ far enough to remove ties

67'-70' of rail is being removed

Katie left around 11:20 am

Lunch @ 11:25-12:25 PM

@ 12:45 measured approx dimensions for double slab @ Ex C (See Figure ~~Below~~)

Note: Eddie said top layer of concrete had rebar and bottom layer did not

Double layers are present due to pre-existing foundation for the structure that was removed

Eddie is drilling ~~through rebar to~~ next to rails in order to remove them. A few metal bolts that are securing the rails to the ground have been exposed.

@ 1:20 Observed Backfill @ Ex E. Slight pumping occuring near middle. Drain rock layer from bottom of pit is being built all the way to the top. ~~Drain Rock~~ This layer is only near the sawed pipe. (See Figure

CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project
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Contractor: NRC
Page: 4 of 4

On-Site Observer: Youssuf Kaleem

Activities

The drain rock is placed underneath the pipe to prevent the soil from getting wet overnight

Scott left for the day had a meeting to attend

@ 2:00 talked w/Mike backfill will most likely not be completed today. Scott wants to ~~leave about~~ stop backfilling about 4'-5' from the top so that he can drill holes for dowels.

Aggregate base will not come until later tomorrow or maybe over weekend, will need to confirm with Scott.

@ 2:05 backfill @ Ex E is about 9' from top.

@ 2:15 PM ~~backfill~~ pumping is getting slightly more evident near middle of Ex E. Sides are completely fine

@ 2:30 began scraping up middle portion w/backhoe with the hopes that it will aerate overnight.

Mike has not been able to compact directly underneath longer pipe (the one that Brit sawed off) so he plans to place gravel underneath it, ~~and~~. Once gravel goes over the pipe, he will place backfill soil and compact. (See Figure)

@ 2:50 observed Ex C. Eddie is sawing off railroad boles

@ 2:55 Mike pushed some backfill soil up against a side of Ex E to prevent further outfall of soil ~~during the night~~ overnight

SIERRA WEST CONSULTANTS INC

CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 6/20/12

Contractor: NRC

Page: 1 of 2

Day: Fri, June 20th Weather: Sunny Temp: 65°-90° Conditions:

On-Site Observer: Yousuf Kaleem Arrival: 7:27 Departure: 2:35

Visitors:

Adam

Work Force: Personnel, Company	Comments
Rob, Mike	
Scott, Eddie	
Adam Rockridge Geotech	

Equipment:

CAT Excavator 330 B
CAT 4200
CAT Sheepsfoot roller

Activities

The Scraped soil @ the bottom of Ex E that was left overnight is pretty dry. Good sign!
Adam from Rockridge is here to observe compaction today
@ 7:30 Aerated stockpile of soil backfill
@ 7:50 Observed removal of RR tracks @ C
-Mike is using excavator to rip out tracks rails.
@ 8:08 broke up rails. Eddie will now clear debris
@ 8:15 Sprinkled gravel ~~over~~ along middle of Ex E to help prevent pumping
@ 8:20 Compaction started

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Project: UFR Project	Date:	M	T	W	T	F	S	S
Client: CKG	Location:							
Observer: Yousuf Kyleem	Weather:							

Description:

@C Eddie is moving rails out of the way and to an open area near Ex E.

@9:20 about 7 ft from top

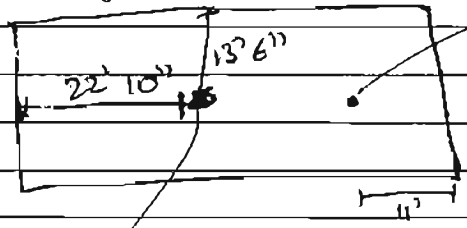
@9:55 observed Ex C. Measured exposed concrete: 6" slab

@10:08 about 6' 8" from top

Eddie is clearing rubble from C and stockpiling @ E

@10:40 light to moderate pumping near middle has started again

@10:48 preparing to test compaction



91%
15% water content

Optimum is 10%

91%
14.5% water content

Launch: 11:30 - 12:15 PM

Chris came by to take a look at site. ~~Aeration~~ Will be aerating stockpile as well as scraping surface from Ex E.

Stockpile is currently being aerated
about 20 8' wooden posts excavated from railroads @ Ex C.
Ex E is being aerated
Ex C is mostly cleaned up of debri

CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project
Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.
Engineer: Sierra West Consultants, Inc.
Date: 6/23/14
Contractor: NRC
Page: 1 of 2
Day: Mon Weather: Cloudy Temp: 60°-70° Conditions:

On-Site Observer: Yousuf Kalem Arrival: 6:40 AM Departure: 4:30 PM

Visitors:

Katie

Work Force: Personnel, Company	Comments
2 Laborers	
Scott	
Mike	
Jeff	

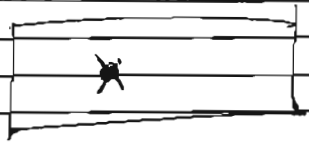
Equipment:

Vibratory shaker head (for shoring)
Excavator CAT 330 B
CAT 420 D

Activities

Began Compacting again @ E
measured out and outlined pit excavation dimensions @ C

89%, 14% Water content tested one location @ 9:50 AM



Katie and Jeff suggested that Mike make a few more runs and then test again.

@ 10:30 AM got 91% and 89% and 14% and 17% water content
going to let it dry out meanwhile going to dig @ E & C

SIERRA WEST CONSULTANTS INC

CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 6/23/14

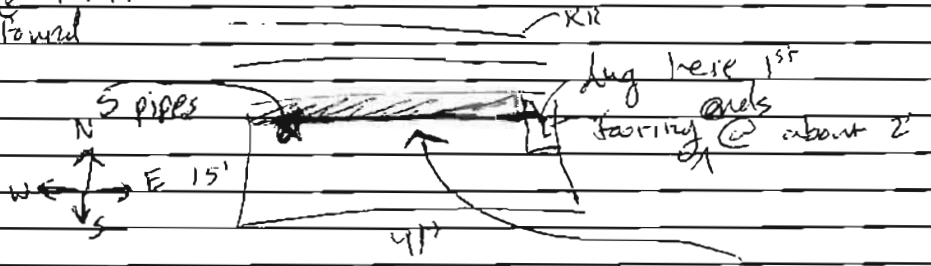
Contractor: NRC

Page: 2 of 2

On-Site Observer: Yousuf Kadeer

Activities

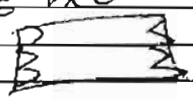
Measuring out 41' x 15' @ Ex C @ 10:55 PM
started digging @ 11 AM
dug to 4' and found footing



Natural clay layer starts @ about 2' along edge of pit

Hit five pipes near NW corner of pit.

@ 1:50 PM started shoring @ Ex C
- 2 sides shored



Shoring sheets are about 3'-4' wide and 15'-16' long

@ 3:10 Finished driving in shoring

Dug a little bit out from Ex C (about 0'-9')

@ 3:45 Mike ran over the backfill @ Ex E a little bit more (2 runs)

@ 3:50 Added another lift and began aerating stockpile

Note: Ex C Dimensions: 41' x 15'

SIERRA WEST CONSULTANTS INC

CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 6/24/14

Contractor: NRC

Page: 1 of 3

Day: Tue Weather: Sunny Temp: 60°-70° Conditions:

On-Site Observer: Yousuf Kaleem Arrival: 6:40 AM Departure: 6 PM

Visitors:

Katie

Work Force:

Personnel, Company	Comments
3 laborers	
Scott	
Mike	
Eddie	

Equipment:

CAT 314C Excavator
CAT 330B Excavator
CAT 420 D
Sheepsfoot Roller

Activities

@ 6:45 held meeting and discussed plans for the day.

@ 7 AM moved excavators over to Ex C to load trucks.

@ 7:05 began loading first truck

@ 7:10 began dewatering @ C and began digging also

@ 7:15 Mike dug a small pothole to help with the watering @ C

@ 7:40 gave Katie a call she will be here in about 30 min

SIERRA WEST CONSULTANTS, INC.

CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project
Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.
Engineer: Sierra West Consultants, Inc.
Date: 6/24/14
Contractor: NRC
Page: 2 of 3

On-Site Observer: Yousuf Kaleem

Activities

Katie tested backfill lift from yesterday in 2 locations
- Got 93% / 13% and 90% / 15% so they will add half a lift and she will come back in an hour and test again.

@ 9:35 AM Ex E is about 5' from top.
@ 9:05 took Ex C SS2
@ 9:40 Katie came to test again
90% / 12% 93% / 14%
@ 9:45 used vibratory to compact existing lift. (Note. now @ -3')
Did not improve conditions.

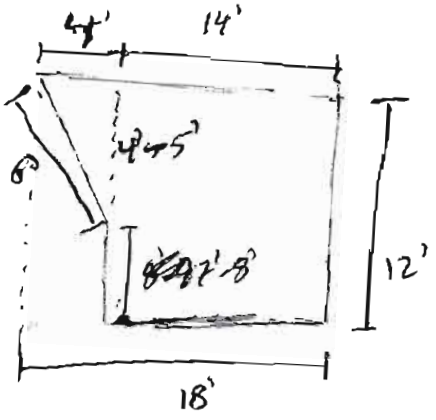
@ 10:00 AM held meeting with Scott, Chris, and Katie
will remove ~2" from Ex E and Scott will bring in Base course material by today / tomorrow Eddie started drilling holes @ E.
Katie will test material after compaction
@ 11 AM took Ex C GW2 samples

@ 12:10 Lunch

Tire on 420D deflated, so it is being repaired.
- New tire brought in.

Moving stockpile @ E to the edge of Owens-Brockway property (near fence)
Observed C @ 1:10 PM. Currently clearing path for trucks - loading truck to haul off (Note: there have been more than 3 trucks) will confirm w/Scott
@ 1:45 measured and confirmed dual hole drill spacings @ E

Cross Section of Excavation @ C



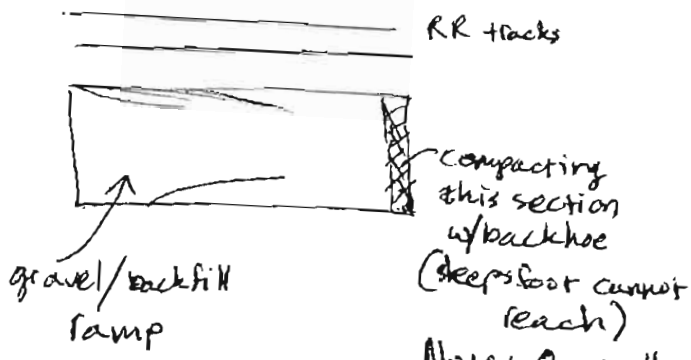
$4^2 + x^2 = 36$

$x^2 = 20$

$x = 4.5'$

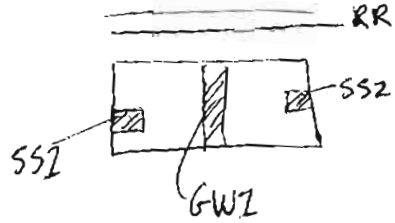
39' long

Plan View of ExC



Note: Once the backfill was 3'-4' from top, the sheepsroller was able to compact this area.

Ex C SS1, SS2, and GW1 Locations



CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container

Engineer: Sierra West Consultants, Inc.

CKG Environmental, Inc.

Date. 6/24/14

Contractor: NRC

Page: 3 of 3

On-Site Observer: Yousuf Koleem

Activities

@ 1:50 took Ex C 551

@ 2:20 poured remainder of OWL @ Ex C

@ 2:35 gave samples to Rob

@ 2:45 began pouring gravel in C

Drilling the dowels is going ~~slowly~~ quite slow. Will bring more powerful equipment and/or more manpower tomorrow hopefully

@ Some of the pipe base material has come in.

@ 3:30 observed Ex C
- Gravel has been placed
- ~~Using backfill @ E, took~~ A ramp is being built into the pit @ C

@ 4 pm, shoring on one side was removed

length of C is 39' See figure for cross section dimensions
Removed old metal pipe near top of Ex C → BKR tracks
Compacting with vibratory
Ramp D is built out of gravel and fill is being placed in lifts.

~~Note~~ Notes: 9 trucks hauled out excavated material from C (verified by Scott)

SIERRA WEST CONSULTANTS, INC.

CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 6/25/14

Contractor: NRC

Page: 1 of 2

Day: Wed Weather: Mild Temp: 55 - 60° Conditions: Cloudy, windy

On-Site Observer: Yousuf Kaheem Arrival: 6:50 AM Departure: 2:45 PM

Visitors:

Katie
Chris

Work Force: Personnel, Company	Comments
Scott	
Mike	
Eddie	
3 Laborers	

Equipment:

Two Drills (for dowel holes), Sheepsfoot roller
CAT 314C
CAT 330B
CAT 420D

Activities

@ 6:55 AM truck w/ base material arrives.
Katie arrived @ 7:15 AM
- Test Results: @ Surface: 95% / 14%
@ 3' below grade: 90% / 15%

@ 8:00 AM Removing shoring boom other end @ C
drill
Eddie and 1 Laborer are continuing to ~~plug~~ holes @ E.

Chris was on site. She was OK w/ results for Ex C. She said Owens will most probably not build much on top of the site & she is more concerned with making the area safe and free for trucks to pass.

1

SIERRA WEST CONSULTANTS, INC

CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project
Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.
Engineer: Sierra West Consultants, Inc.
Date: 6/25/14
Contractor: NRC
Page: 2 of 2

On-Site Observer: Yousuf Rahim

Activities

All shoring @ C is removed

@ 10 AM Eddie and laborer are still drilling.

@ 10:45 took measurements of cleared area @ C ≈ 43' X 25'

NOTE: The dimensions ARE NOT excavated area dimensions. Just cleared area including area where RR tracks were removed.

Scott made copy of my dimensions from yesterday for E & C

@ 11:15 began compacting road base @ C

this area about 2' below grade (before base was added)

@ 11:40 - 12:40 Lunch

Drilling still continuing @ E

@ 12:55 Almost done placing road base @ C
Mike is moving backfill stockpile @ E to edge of property

Took a few measurement of completed holes @ E. 12"-14" ✓

@ 1:35 base ~~for~~ compaction finished @ C

9 trucks hauled out excavated material from C today.

SIERRA WEST CONSULTANTS, INC.

CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 6/26/14

Contractor: NRC

Page: 1 of 4

Day: Thur Weather: mild Temp: 55-65° Conditions: Cloudy

On-Site Observer: Yousuf Kaleem Arrival: 7:15 AM Departure: 5:30 PM

Visitors:

Katie

Work Force: Personnel, Company	Comments
Scott	
Mike	
Eddie	
3 laborers	

Equipment:

CAT 314C
CAT 330B
CAT 420D
Sheepsfoot Roller

Activities

Ex E has been doing back down to -5' below grade | Removed about 3'-4' of old backfill.
- 1st lift is being placed. Lifts about 10"-12" thick
- Some of the old backfill has been left to provide a decent height for the dowel hole drilling. It will be removed later
- called Katie for testing she will be here around 8:15/8:30

Tires are being changed on CAT 420D ? Fixed by 7:50 AM
Oil is being changed
@ 8:45 AM Katie arrived

SIERRA WEST CONSULTANTS, INC.

CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container

Engineer: Sierra West Consultants, Inc.

CKG Environmental, Inc.

Date: 6/26/14

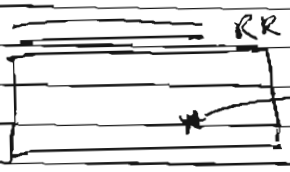
Contractor: NRC

Page: 2 of 4

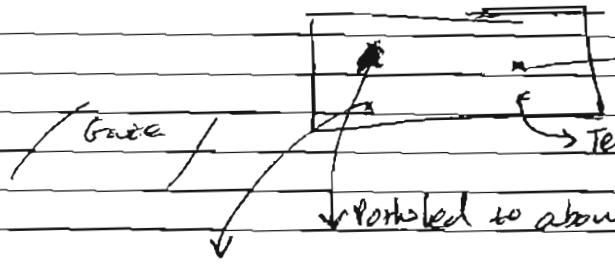
On-Site Observer: Yousuf Kaleem

Activities

Test @ C:



Test @ E

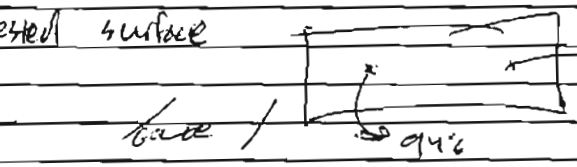


Katie will come back @ 11:30 to test one more time near far end of pit
Finished drilling holes @ 9:50 AM

@ 10:45 finished compacting the old backfill for E along the edge of the property
@ 10:50 ~~start~~ went back to compacting @ E (new agg base)

Hauling off all scrap steel from site (ie RR tracks, rebar, concrete, etc)

@ 11:45 AM Katie tested surface



@ 10:50 did a couple more runs over pit
- Passed @ 95%.

SIERRA WEST CONSULTANTS INC.

CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project
Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.
Engineer: Sierra West Consultants, Inc.
Date: 4/26/14
Contractor: NRC
Page: 3 of 4

On-Site Observer: Yousuf Kaleem

Activities

Lunch from 12:05-1:05 (Mike left site before lunch)
@ 1:10 marked trench line with spray paint and began digging trench to place water pipe.
top of pipe is -4' below grade
Cleared inside of pipe ~~[illegible]~~ w/rag and removed dust/debri
Trench is 4' wide, 5' deep, 30' long
Length of pipe removed was originally 24'
Using repair coupling to reattach sawed off end.
Placed about 1" drain rock at trench bed
Applied pipe lubricant along inside seams of pipe.

Dimensions: EX E = 28x58x16
includes sides that fell out about 1'
Dug 3 pits (5'x5'x3') and filled 2 trucks each @ 15 then graded the ground and thats why he got 2 extra trucks
E 993 total for backfill

Excavation C = 258 (dug out) + (46.33' x 27.5' x 6")

258 + 11 = 269 yd³

SIERRA WEST CONSULTANTS, INC

CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 6/26/14

Contractor: NRC

Page: 4 of 4

On-Site Observer: Yousuf Kaleem

Activities

Attached pipe and ~~pleast~~ performed hydro test. No leaks.
Placed about 1-1.5' of gravel over pipe
Backfilled and compacted.

Before leaving the site, marked lines for saw cutting @ 5 AM tomorrow

SIERRA WEST
CONSULTANTS, INC

CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 6/27/14

Contractor: NRC

Page: 1 of 5

Day: Friday Weather: Warm Temp: 60°-70° Conditions: Sunny

On-Site Observer: Yousuf Kaleem Arrival: 7:35 AM Departure: 12:00 PM

Visitors:

Work Force: Personnel, Company	Comments
Scott	
Eddie	
1 Laborer	

Equipment:

Activities

59.3' X 29.3' → Dimensions for E after saw cutting.
Saw cut E this morning @ 5 AM

Cleaning surface @ E and using spraying to measure 8 in'

Eddie started inserting dowels into holes and angle driving them w/ driver.

Prior to this holes were randomly checked. Holes were deep enough
Checked length of rebar while they were inserted. Lengths were ok ✓

Dimensions Attached

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EXCAVATION E

58 FT x 28 FT x 1 FT = 962.4 CY ⇒ 963 CY

ADD ADDITIONAL DEPTH / GRADING

- PER MIKE McCLISH — LOADED 2 EA END DUMPS

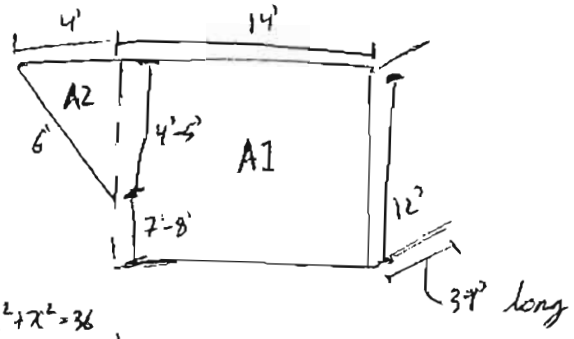
* ASSUME 15 CY PER END DUMP ⇒ 30 CY

TOTAL BF = 993 CY → Bid Item 12

41.4 SY for concrete resurfacing @ E

39.3' x 29.3'

Cross-Section Area C



$4^2 + x^2 = 36$

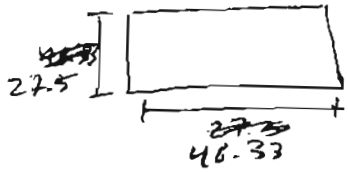
$x = 4.5'$

A1: $39' \times 14' \times 12' = 242.7 = 243$ cy (1)

A2: $\frac{4 \times 5}{2} \times 39' = 14.4$ cy $= 15$ cy (2)

Base Rock Area

(Plan View of C)



$46.33 \times 27.5 = 1274$ (3)

corrected area: $18 \times 39 = 702$ ft² (4)

(3) − (4) = 572 ft²

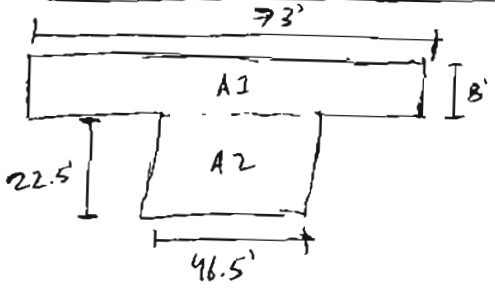
572×0.5 ft of base rock

= 11 cy (5)

(1) + (2) + (5) = 269 cy

Bid Item (7)

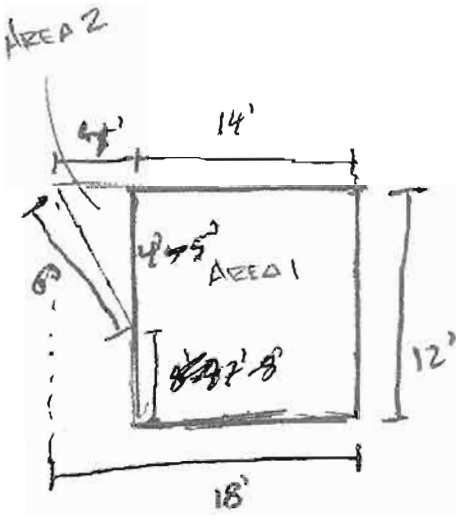
Plan View of Ex C for Concrete Pour



$73' \times 8' \times 5'' = 243$ ft³

$46.5' \times 22.5' \times 5'' = 435$

$\frac{678}{27} = 25$ cy → Change order #1



$4^2 + x^2 = 36$

$x^2 = 20$

$x = 4.5'$

39' long

AREA 1

39 FT x 14 FT x 12 FT

= 242.7 ⇒ 243 CY

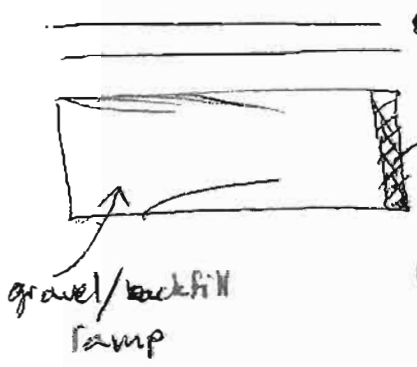
AREA 2

$\frac{4 FT \times 5 FT}{2} \times 39 FT$

= 14.4 CY ⇒ 15 CY

258 CY

Plan View of ExC



Note: Once the backfill was 3'-4' from top, the sheepsfoot was able to compact this area.

ADDITIONAL AREA BASE ROCK

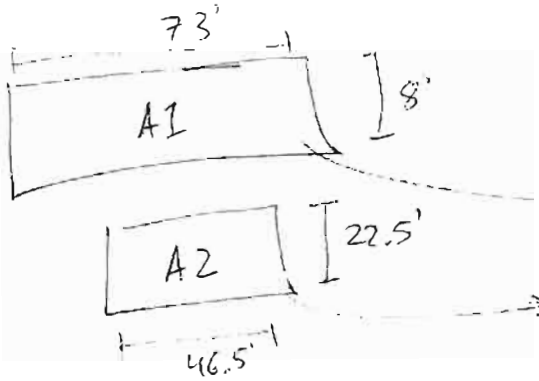
TOTAL 46.33 FT x 27.5 FT = 1274 SF

CONTACT AREA 18 FT x 39 FT = 702 SF

572 SF

572 SF x 0^5 FT = 10^6 CY ⇒ 11 CY

TOTAL = 258 CY + 11 CY = 269 CY



Area for Concrete Pour @ C

554 ft²

1046 ft²

1630 ft² ⟹ 80 ft³ ⇒ 25 cy

avg 5" thick

CONSTRUCTION OBSERVATION REPORT

Project: Underground Facilities Removal Project

Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.

Engineer: Sierra West Consultants, Inc.

Date: 7/21/14

Contractor: NRC

Page: 1 of 3

Day: Tue Weather: Clear Temp: _____ Conditions: Sunny

On-Site Observer: Yousuf Kaleem Arrival: 8:35 AM Departure: 5:25 PM

Visitors:

Katie
Ryan Slump testing

Work Force:	Personnel, Company	Comments
6 laborers	(Concrete)	
Chris		
Scott		
Jeff		
Eddie		

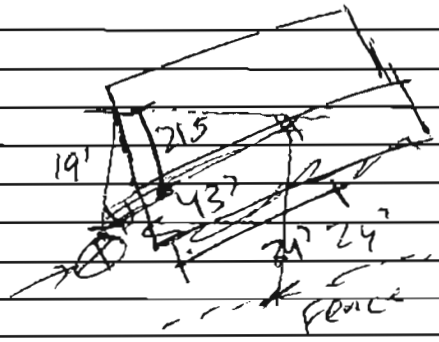
Equipment:

Vibrating needle
Sawcutting machine
Backhoe

Activities

46% Slightly off-line
45% on-line and 46%

@ 9:15 measured location of water pipe @ Ex E. w/ Jeff
Points: Fire Hyd
Corner of Excavation
Corner of fence



21.5 from edge
24' from edge
24' from corner of fence
60' from corner

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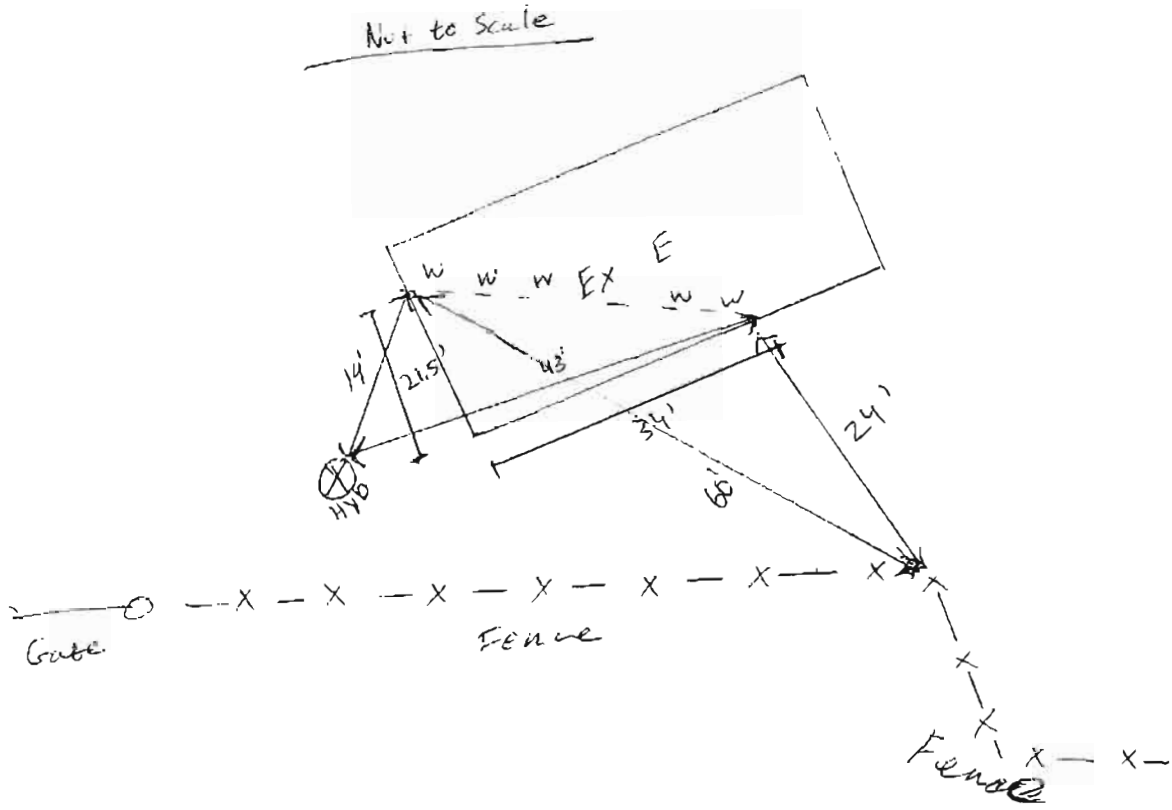

Not to Scale
W W W EX W W
E
14'
21.5'
43'
34'
24'
68'
HYD
Gate
Fence
Fence

CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project
Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.
Engineer: Sierra West Consultants, Inc.
Date: 7/01/14
Contractor: NRC
Page: 2 of 3

On-Site Observer: Yusuf Kaheem

Activities

Small stockpile of debri still @ C

Testing engineer will take 1 slump test per truckload
5 cylinders: 3
1 @ 7 days (60% threshold) normally 7-day break but will change paperwork
3 @ 28 days
1 extra in case average fails

Wet agg base @ E around 9:55 AM

@ 10:05 first load arrives : 2.25" slump ✓ (spec wants 2"-4")

@ 10:35 2nd load : 3.25" ✓

@ 10:50 3rd load : 1.75"-2"

4th load : 3"

@ 12:30 started pour @ C

Jeff said it's ok to sprinkle a little water over poured concrete if needed.
5th : 3.25"

Some scrap concrete was lying around C. Eddie cracked it up and spread it around before continuing to pour
6th : 2.75"

Stopped work @ 2pm waiting on 7th truck

@ 2:30 began spraying curing agent @ E

Slump Tests: 1/3 : 25 rods
1/3 : 25 rods
1/3 : 25 rods
invert and measure from top of cone

Area C
RR tracks
* → sloped inwards and down

SIERRA WEST CONSULTANTS INC.

CONSTRUCTION OBSERVATION REPORT
(Continued)

Project: Underground Facilities Removal Project
Owner: Owens-Brockway Glass Container
CKG Environmental, Inc.
Engineer: Sierra West Consultants, Inc.
Date: 7/01/14
Contractor: NRC
Page: 3 of 3

On-Site Observer: Yousuf Kaheram

Activities

@ 2:40 used backhoe to ~~clear away broken concrete~~ make a cold joint since concrete batch has not arrived yet.

After clearing away the concrete, placed stringline and measured: 3"-5"
Clearing away some high spots to achieve 4"

Acrylic Curing Agent: 300 ft²/gal x 5 gal = 1500 gal

@ 2:50 chalking marks for saw cuts @ E
@ 2:55 1st truck arrives to pour @ C
@ 3:00 started pouring again. Vibrating rear cold joints
Slump: 3.75"

Received COPY of Test Results from Ryan before he left @ 3:25

@ 3:30 began saw cutting E

Marked lines for sawcutting @ C and sprayed curing agent

@ 4:45 finished sawcutting E. Sweeping up dust

@ 4:55 began sawcutting @ C. Only 1" saw cut since spec states (1/4 D)

SIERRA WEST CONSULTANTS INC.

Appendix 4
Pre-Construction Soil Profile Laboratory Report

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1405768

Report Created for: CKG Environmental
P.O. Box 246
St. Helena, CA 94574

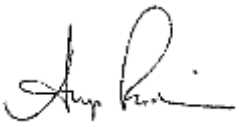
Project Contact: Christina Kennedy
Project P.O.:
Project Name: Owens Brockway Glass Plant

Project Received: 05/20/2014

Analytical Report reviewed & approved for release on 05/22/2014 by:

Question about your data?

Click here to email McCampbell



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Owens Brockway Glass Plant
WorkOrder: 1405768

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
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
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
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
TEQ	Toxicity Equivalence

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
a3	sample diluted due to high organic content.
a4	the reporting limits were raised due to the sample's matrix prohibiting a full volume extraction.
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
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
e7	oil range compounds are significant

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-4	1405768-001A	Soil	05/20/2014	GC21	90625

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	4.0	2	05/20/2014 17:05
Acenaphthylene	ND	4.0	2	05/20/2014 17:05
Acetochlor	ND	4.0	2	05/20/2014 17:05
Anthracene	ND	4.0	2	05/20/2014 17:05
Benzidine	ND	21	2	05/20/2014 17:05
Benzo (a) anthracene	ND	4.0	2	05/20/2014 17:05
Benzo (b) fluoranthene	ND	4.0	2	05/20/2014 17:05
Benzo (k) fluoranthene	ND	4.0	2	05/20/2014 17:05
Benzo (g,h,i) perylene	ND	4.0	2	05/20/2014 17:05
Benzo (a) pyrene	ND	4.0	2	05/20/2014 17:05
Benzyl Alcohol	ND	21	2	05/20/2014 17:05
1,1-Biphenyl	ND	4.0	2	05/20/2014 17:05
Bis (2-chloroethoxy) Methane	ND	4.0	2	05/20/2014 17:05
Bis (2-chloroethyl) Ether	ND	4.0	2	05/20/2014 17:05
Bis (2-chloroisopropyl) Ether	ND	4.0	2	05/20/2014 17:05
Bis (2-ethylhexyl) Adipate	ND	4.0	2	05/20/2014 17:05
Bis (2-ethylhexyl) Phthalate	ND	4.0	2	05/20/2014 17:05
4-Bromophenyl Phenyl Ether	ND	4.0	2	05/20/2014 17:05
Butylbenzyl Phthalate	ND	4.0	2	05/20/2014 17:05
4-Chloroaniline	ND	4.0	2	05/20/2014 17:05
4-Chloro-3-methylphenol	ND	4.0	2	05/20/2014 17:05
2-Chloronaphthalene	ND	4.0	2	05/20/2014 17:05
2-Chlorophenol	ND	4.0	2	05/20/2014 17:05
4-Chlorophenyl Phenyl Ether	ND	4.0	2	05/20/2014 17:05
Chrysene	ND	4.0	2	05/20/2014 17:05
Dibenzo (a,h) anthracene	ND	4.0	2	05/20/2014 17:05
Dibenzofuran	ND	4.0	2	05/20/2014 17:05
Di-n-butyl Phthalate	ND	4.0	2	05/20/2014 17:05
1,2-Dichlorobenzene	ND	4.0	2	05/20/2014 17:05
1,3-Dichlorobenzene	ND	4.0	2	05/20/2014 17:05
1,4-Dichlorobenzene	ND	4.0	2	05/20/2014 17:05
3,3-Dichlorobenzidine	ND	8.0	2	05/20/2014 17:05
2,4-Dichlorophenol	ND	4.0	2	05/20/2014 17:05
Diethyl Phthalate	ND	4.0	2	05/20/2014 17:05
2,4-Dimethylphenol	ND	4.0	2	05/20/2014 17:05
Dimethyl Phthalate	ND	4.0	2	05/20/2014 17:05
4,6-Dinitro-2-methylphenol	ND	21	2	05/20/2014 17:05
2,4-Dinitrophenol	ND	100	2	05/20/2014 17:05

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-4	**1405768-001A**	**Soil**	**05/20/2014**	**GC21**	**90625**

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrotoluene	ND	4.0	2	05/20/2014 17:05
2,6-Dinitrotoluene	ND	4.0	2	05/20/2014 17:05
Di-n-octyl Phthalate	ND	8.0	2	05/20/2014 17:05
1,2-Diphenylhydrazine	ND	4.0	2	05/20/2014 17:05
Fluoranthene	ND	4.0	2	05/20/2014 17:05
Fluorene	ND	4.0	2	05/20/2014 17:05
Hexachlorobenzene	ND	4.0	2	05/20/2014 17:05
Hexachlorobutadiene	ND	4.0	2	05/20/2014 17:05
Hexachlorocyclopentadiene	ND	21	2	05/20/2014 17:05
Hexachloroethane	ND	4.0	2	05/20/2014 17:05
Indeno (1,2,3-cd) pyrene	ND	4.0	2	05/20/2014 17:05
Isophorone	ND	4.0	2	05/20/2014 17:05
2-Methylnaphthalene	ND	4.0	2	05/20/2014 17:05
2-Methylphenol (o-Cresol)	ND	4.0	2	05/20/2014 17:05
3 &/or 4-Methylphenol (m,p-Cresol)	ND	4.0	2	05/20/2014 17:05
Naphthalene	ND	4.0	2	05/20/2014 17:05
2-Nitroaniline	ND	21	2	05/20/2014 17:05
3-Nitroaniline	ND	21	2	05/20/2014 17:05
4-Nitroaniline	ND	21	2	05/20/2014 17:05
Nitrobenzene	ND	4.0	2	05/20/2014 17:05
2-Nitrophenol	ND	21	2	05/20/2014 17:05
4-Nitrophenol	ND	21	2	05/20/2014 17:05
N-Nitrosodiphenylamine	ND	4.0	2	05/20/2014 17:05
N-Nitrosodi-n-propylamine	ND	4.0	2	05/20/2014 17:05
Pentachlorophenol	ND	21	2	05/20/2014 17:05
Phenanthrene	ND	4.0	2	05/20/2014 17:05
Phenol	ND	4.0	2	05/20/2014 17:05
Pyrene	ND	4.0	2	05/20/2014 17:05
1,2,4-Trichlorobenzene	ND	4.0	2	05/20/2014 17:05
2,4,5-Trichlorophenol	ND	4.0	2	05/20/2014 17:05
2,4,6-Trichlorophenol	ND	4.0	2	05/20/2014 17:05

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-4	**1405768-001A**	**Soil**	**05/20/2014**	**GC21**	**90625**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits	Analytical Comments: a3,a4	
2-Fluorophenol	89	30-130		05/20/2014 17:05
Phenol-d5	84	30-130		05/20/2014 17:05
Nitrobenzene-d5	78	30-130		05/20/2014 17:05
2-Fluorobiphenyl	86	30-130		05/20/2014 17:05
2,4,6-Tribromophenol	25	16-130		05/20/2014 17:05
4-Terphenyl-d14	90	30-130		05/20/2014 17:05

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-7.5	1405768-002A	Soil	05/20/2014	GC21	90625

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	4.0	2	05/20/2014 17:32
Acenaphthylene	ND	4.0	2	05/20/2014 17:32
Acetochlor	ND	4.0	2	05/20/2014 17:32
Anthracene	ND	4.0	2	05/20/2014 17:32
Benzidine	ND	21	2	05/20/2014 17:32
Benzo (a) anthracene	ND	4.0	2	05/20/2014 17:32
Benzo (b) fluoranthene	ND	4.0	2	05/20/2014 17:32
Benzo (k) fluoranthene	ND	4.0	2	05/20/2014 17:32
Benzo (g,h,i) perylene	ND	4.0	2	05/20/2014 17:32
Benzo (a) pyrene	ND	4.0	2	05/20/2014 17:32
Benzyl Alcohol	ND	21	2	05/20/2014 17:32
1,1-Biphenyl	ND	4.0	2	05/20/2014 17:32
Bis (2-chloroethoxy) Methane	ND	4.0	2	05/20/2014 17:32
Bis (2-chloroethyl) Ether	ND	4.0	2	05/20/2014 17:32
Bis (2-chloroisopropyl) Ether	ND	4.0	2	05/20/2014 17:32
Bis (2-ethylhexyl) Adipate	ND	4.0	2	05/20/2014 17:32
Bis (2-ethylhexyl) Phthalate	ND	4.0	2	05/20/2014 17:32
4-Bromophenyl Phenyl Ether	ND	4.0	2	05/20/2014 17:32
Butylbenzyl Phthalate	ND	4.0	2	05/20/2014 17:32
4-Chloroaniline	ND	4.0	2	05/20/2014 17:32
4-Chloro-3-methylphenol	ND	4.0	2	05/20/2014 17:32
2-Chloronaphthalene	ND	4.0	2	05/20/2014 17:32
2-Chlorophenol	ND	4.0	2	05/20/2014 17:32
4-Chlorophenyl Phenyl Ether	ND	4.0	2	05/20/2014 17:32
Chrysene	ND	4.0	2	05/20/2014 17:32
Dibenzo (a,h) anthracene	ND	4.0	2	05/20/2014 17:32
Dibenzofuran	ND	4.0	2	05/20/2014 17:32
Di-n-butyl Phthalate	ND	4.0	2	05/20/2014 17:32
1,2-Dichlorobenzene	ND	4.0	2	05/20/2014 17:32
1,3-Dichlorobenzene	ND	4.0	2	05/20/2014 17:32
1,4-Dichlorobenzene	ND	4.0	2	05/20/2014 17:32
3,3-Dichlorobenzidine	ND	8.0	2	05/20/2014 17:32
2,4-Dichlorophenol	ND	4.0	2	05/20/2014 17:32
Diethyl Phthalate	ND	4.0	2	05/20/2014 17:32
2,4-Dimethylphenol	ND	4.0	2	05/20/2014 17:32
Dimethyl Phthalate	ND	4.0	2	05/20/2014 17:32
4,6-Dinitro-2-methylphenol	ND	21	2	05/20/2014 17:32
2,4-Dinitrophenol	ND	100	2	05/20/2014 17:32

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-7.5	1405768-002A	Soil	05/20/2014	GC21	90625

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrotoluene	ND	4.0	2	05/20/2014 17:32
2,6-Dinitrotoluene	ND	4.0	2	05/20/2014 17:32
Di-n-octyl Phthalate	ND	8.0	2	05/20/2014 17:32
1,2-Diphenylhydrazine	ND	4.0	2	05/20/2014 17:32
Fluoranthene	ND	4.0	2	05/20/2014 17:32
Fluorene	ND	4.0	2	05/20/2014 17:32
Hexachlorobenzene	ND	4.0	2	05/20/2014 17:32
Hexachlorobutadiene	ND	4.0	2	05/20/2014 17:32
Hexachlorocyclopentadiene	ND	21	2	05/20/2014 17:32
Hexachloroethane	ND	4.0	2	05/20/2014 17:32
Indeno (1,2,3-cd) pyrene	ND	4.0	2	05/20/2014 17:32
Isophorone	ND	4.0	2	05/20/2014 17:32
2-Methylnaphthalene	ND	4.0	2	05/20/2014 17:32
2-Methylphenol (o-Cresol)	ND	4.0	2	05/20/2014 17:32
3 &/or 4-Methylphenol (m,p-Cresol)	ND	4.0	2	05/20/2014 17:32
Naphthalene	ND	4.0	2	05/20/2014 17:32
2-Nitroaniline	ND	21	2	05/20/2014 17:32
3-Nitroaniline	ND	21	2	05/20/2014 17:32
4-Nitroaniline	ND	21	2	05/20/2014 17:32
Nitrobenzene	ND	4.0	2	05/20/2014 17:32
2-Nitrophenol	ND	21	2	05/20/2014 17:32
4-Nitrophenol	ND	21	2	05/20/2014 17:32
N-Nitrosodiphenylamine	ND	4.0	2	05/20/2014 17:32
N-Nitrosodi-n-propylamine	ND	4.0	2	05/20/2014 17:32
Pentachlorophenol	ND	21	2	05/20/2014 17:32
Phenanthrene	ND	4.0	2	05/20/2014 17:32
Phenol	ND	4.0	2	05/20/2014 17:32
Pyrene	ND	4.0	2	05/20/2014 17:32
1,2,4-Trichlorobenzene	ND	4.0	2	05/20/2014 17:32
2,4,5-Trichlorophenol	ND	4.0	2	05/20/2014 17:32
2,4,6-Trichlorophenol	ND	4.0	2	05/20/2014 17:32

(Cont.)

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-7.5	**1405768-002A**	**Soil**	**05/20/2014**	**GC21**	**90625**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits	Analytical Comments: a3,a4	
2-Fluorophenol	94	30-130		05/20/2014 17:32
Phenol-d5	88	30-130		05/20/2014 17:32
Nitrobenzene-d5	87	30-130		05/20/2014 17:32
2-Fluorobiphenyl	96	30-130		05/20/2014 17:32
2,4,6-Tribromophenol	67	16-130		05/20/2014 17:32
4-Terphenyl-d14	108	30-130		05/20/2014 17:32

(Cont.)

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-12.5	1405768-003A	Soil	05/20/2014	GC21	90625

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	20	10	05/20/2014 18:00
Acenaphthylene	ND	20	10	05/20/2014 18:00
Acetochlor	ND	20	10	05/20/2014 18:00
Anthracene	ND	20	10	05/20/2014 18:00
Benzidine	ND	100	10	05/20/2014 18:00
Benzo (a) anthracene	ND	20	10	05/20/2014 18:00
Benzo (b) fluoranthene	ND	20	10	05/20/2014 18:00
Benzo (k) fluoranthene	ND	20	10	05/20/2014 18:00
Benzo (g,h,i) perylene	ND	20	10	05/20/2014 18:00
Benzo (a) pyrene	ND	20	10	05/20/2014 18:00
Benzyl Alcohol	ND	100	10	05/20/2014 18:00
1,1-Biphenyl	ND	20	10	05/20/2014 18:00
Bis (2-chloroethoxy) Methane	ND	20	10	05/20/2014 18:00
Bis (2-chloroethyl) Ether	ND	20	10	05/20/2014 18:00
Bis (2-chloroisopropyl) Ether	ND	20	10	05/20/2014 18:00
Bis (2-ethylhexyl) Adipate	ND	20	10	05/20/2014 18:00
Bis (2-ethylhexyl) Phthalate	ND	20	10	05/20/2014 18:00
4-Bromophenyl Phenyl Ether	ND	20	10	05/20/2014 18:00
Butylbenzyl Phthalate	ND	20	10	05/20/2014 18:00
4-Chloroaniline	ND	20	10	05/20/2014 18:00
4-Chloro-3-methylphenol	ND	20	10	05/20/2014 18:00
2-Chloronaphthalene	ND	20	10	05/20/2014 18:00
2-Chlorophenol	ND	20	10	05/20/2014 18:00
4-Chlorophenyl Phenyl Ether	ND	20	10	05/20/2014 18:00
Chrysene	ND	20	10	05/20/2014 18:00
Dibenzo (a,h) anthracene	ND	20	10	05/20/2014 18:00
Dibenzofuran	ND	20	10	05/20/2014 18:00
Di-n-butyl Phthalate	ND	20	10	05/20/2014 18:00
1,2-Dichlorobenzene	ND	20	10	05/20/2014 18:00
1,3-Dichlorobenzene	ND	20	10	05/20/2014 18:00
1,4-Dichlorobenzene	ND	20	10	05/20/2014 18:00
3,3-Dichlorobenzidine	ND	40	10	05/20/2014 18:00
2,4-Dichlorophenol	ND	20	10	05/20/2014 18:00
Diethyl Phthalate	ND	20	10	05/20/2014 18:00
2,4-Dimethylphenol	ND	20	10	05/20/2014 18:00
Dimethyl Phthalate	ND	20	10	05/20/2014 18:00
4,6-Dinitro-2-methylphenol	ND	100	10	05/20/2014 18:00
2,4-Dinitrophenol	ND	500	10	05/20/2014 18:00

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-12.5	**1405768-003A**	**Soil**	**05/20/2014**	**GC21**	**90625**

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrotoluene	ND	20	10	05/20/2014 18:00
2,6-Dinitrotoluene	ND	20	10	05/20/2014 18:00
Di-n-octyl Phthalate	ND	40	10	05/20/2014 18:00
1,2-Diphenylhydrazine	ND	20	10	05/20/2014 18:00
Fluoranthene	ND	20	10	05/20/2014 18:00
Fluorene	ND	20	10	05/20/2014 18:00
Hexachlorobenzene	ND	20	10	05/20/2014 18:00
Hexachlorobutadiene	ND	20	10	05/20/2014 18:00
Hexachlorocyclopentadiene	ND	100	10	05/20/2014 18:00
Hexachloroethane	ND	20	10	05/20/2014 18:00
Indeno (1,2,3-cd) pyrene	ND	20	10	05/20/2014 18:00
Isophorone	ND	20	10	05/20/2014 18:00
2-Methylnaphthalene	ND	20	10	05/20/2014 18:00
2-Methylphenol (o-Cresol)	ND	20	10	05/20/2014 18:00
3 &/or 4-Methylphenol (m,p-Cresol)	ND	20	10	05/20/2014 18:00
Naphthalene	ND	20	10	05/20/2014 18:00
2-Nitroaniline	ND	100	10	05/20/2014 18:00
3-Nitroaniline	ND	100	10	05/20/2014 18:00
4-Nitroaniline	ND	100	10	05/20/2014 18:00
Nitrobenzene	ND	20	10	05/20/2014 18:00
2-Nitrophenol	ND	100	10	05/20/2014 18:00
4-Nitrophenol	ND	100	10	05/20/2014 18:00
N-Nitrosodiphenylamine	ND	20	10	05/20/2014 18:00
N-Nitrosodi-n-propylamine	ND	20	10	05/20/2014 18:00
Pentachlorophenol	ND	100	10	05/20/2014 18:00
Phenanthrene	ND	20	10	05/20/2014 18:00
Phenol	ND	20	10	05/20/2014 18:00
Pyrene	ND	20	10	05/20/2014 18:00
1,2,4-Trichlorobenzene	ND	20	10	05/20/2014 18:00
2,4,5-Trichlorophenol	ND	20	10	05/20/2014 18:00
2,4,6-Trichlorophenol	ND	20	10	05/20/2014 18:00

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-12.5	**1405768-003A**	**Soil**	**05/20/2014**	**GC21**	**90625**

Analytes	Result		RL	DF	Date Analyzed
Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a3,a4,c1	
2-Fluorophenol	68		30-130		05/20/2014 18:00
Phenol-d5	61		30-130		05/20/2014 18:00
Nitrobenzene-d5	89		30-130		05/20/2014 18:00
2-Fluorobiphenyl	88		30-130		05/20/2014 18:00
2,4,6-Tribromophenol	0	S	16-130		05/20/2014 18:00
4-Terphenyl-d14	94		30-130		05/20/2014 18:00

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-16	1405768-004A	Soil	05/20/2014	GC17	90625

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	10	5	05/21/2014 17:20
Acenaphthylene	ND	10	5	05/21/2014 17:20
Acetochlor	ND	10	5	05/21/2014 17:20
Anthracene	ND	10	5	05/21/2014 17:20
Benzidine	ND	52	5	05/21/2014 17:20
Benzo (a) anthracene	ND	10	5	05/21/2014 17:20
Benzo (b) fluoranthene	ND	10	5	05/21/2014 17:20
Benzo (k) fluoranthene	ND	10	5	05/21/2014 17:20
Benzo (g,h,i) perylene	ND	10	5	05/21/2014 17:20
Benzo (a) pyrene	ND	10	5	05/21/2014 17:20
Benzyl Alcohol	ND	52	5	05/21/2014 17:20
1,1-Biphenyl	ND	10	5	05/21/2014 17:20
Bis (2-chloroethoxy) Methane	ND	10	5	05/21/2014 17:20
Bis (2-chloroethyl) Ether	ND	10	5	05/21/2014 17:20
Bis (2-chloroisopropyl) Ether	ND	10	5	05/21/2014 17:20
Bis (2-ethylhexyl) Adipate	ND	10	5	05/21/2014 17:20
Bis (2-ethylhexyl) Phthalate	ND	10	5	05/21/2014 17:20
4-Bromophenyl Phenyl Ether	ND	10	5	05/21/2014 17:20
Butylbenzyl Phthalate	ND	10	5	05/21/2014 17:20
4-Chloroaniline	ND	10	5	05/21/2014 17:20
4-Chloro-3-methylphenol	ND	10	5	05/21/2014 17:20
2-Chloronaphthalene	ND	10	5	05/21/2014 17:20
2-Chlorophenol	ND	10	5	05/21/2014 17:20
4-Chlorophenyl Phenyl Ether	ND	10	5	05/21/2014 17:20
Chrysene	ND	10	5	05/21/2014 17:20
Dibenzo (a,h) anthracene	ND	10	5	05/21/2014 17:20
Dibenzofuran	ND	10	5	05/21/2014 17:20
Di-n-butyl Phthalate	ND	10	5	05/21/2014 17:20
1,2-Dichlorobenzene	ND	10	5	05/21/2014 17:20
1,3-Dichlorobenzene	ND	10	5	05/21/2014 17:20
1,4-Dichlorobenzene	ND	10	5	05/21/2014 17:20
3,3-Dichlorobenzidine	ND	20	5	05/21/2014 17:20
2,4-Dichlorophenol	ND	10	5	05/21/2014 17:20
Diethyl Phthalate	ND	10	5	05/21/2014 17:20
2,4-Dimethylphenol	ND	10	5	05/21/2014 17:20
Dimethyl Phthalate	ND	10	5	05/21/2014 17:20
4,6-Dinitro-2-methylphenol	ND	52	5	05/21/2014 17:20
2,4-Dinitrophenol	ND	250	5	05/21/2014 17:20

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-16	**1405768-004A**	**Soil**	**05/20/2014**	**GC17**	**90625**

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrotoluene	ND	10	5	05/21/2014 17:20
2,6-Dinitrotoluene	ND	10	5	05/21/2014 17:20
Di-n-octyl Phthalate	ND	20	5	05/21/2014 17:20
1,2-Diphenylhydrazine	ND	10	5	05/21/2014 17:20
Fluoranthene	ND	10	5	05/21/2014 17:20
Fluorene	ND	10	5	05/21/2014 17:20
Hexachlorobenzene	ND	10	5	05/21/2014 17:20
Hexachlorobutadiene	ND	10	5	05/21/2014 17:20
Hexachlorocyclopentadiene	ND	52	5	05/21/2014 17:20
Hexachloroethane	ND	10	5	05/21/2014 17:20
Indeno (1,2,3-cd) pyrene	ND	10	5	05/21/2014 17:20
Isophorone	ND	10	5	05/21/2014 17:20
2-Methylnaphthalene	ND	10	5	05/21/2014 17:20
2-Methylphenol (o-Cresol)	ND	10	5	05/21/2014 17:20
3 &/or 4-Methylphenol (m,p-Cresol)	ND	10	5	05/21/2014 17:20
Naphthalene	ND	10	5	05/21/2014 17:20
2-Nitroaniline	ND	52	5	05/21/2014 17:20
3-Nitroaniline	ND	52	5	05/21/2014 17:20
4-Nitroaniline	ND	52	5	05/21/2014 17:20
Nitrobenzene	ND	10	5	05/21/2014 17:20
2-Nitrophenol	ND	52	5	05/21/2014 17:20
4-Nitrophenol	ND	52	5	05/21/2014 17:20
N-Nitrosodiphenylamine	ND	10	5	05/21/2014 17:20
N-Nitrosodi-n-propylamine	ND	10	5	05/21/2014 17:20
Pentachlorophenol	ND	52	5	05/21/2014 17:20
Phenanthrene	ND	10	5	05/21/2014 17:20
Phenol	ND	10	5	05/21/2014 17:20
Pyrene	ND	10	5	05/21/2014 17:20
1,2,4-Trichlorobenzene	ND	10	5	05/21/2014 17:20
2,4,5-Trichlorophenol	ND	10	5	05/21/2014 17:20
2,4,6-Trichlorophenol	ND	10	5	05/21/2014 17:20

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8270C
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-16	**1405768-004A**	**Soil**	**05/20/2014**	**GC17**	**90625**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits	Analytical Comments: a3,a4	
2-Fluorophenol	92	30-130		05/21/2014 17:20
Phenol-d5	84	30-130		05/21/2014 17:20
Nitrobenzene-d5	82	30-130		05/21/2014 17:20
2-Fluorobiphenyl	97	30-130		05/21/2014 17:20
2,4,6-Tribromophenol	53	16-130		05/21/2014 17:20
4-Terphenyl-d14	94	30-130		05/21/2014 17:20

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW5030B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-4	**1405768-001A**	**Soil**	**05/20/2014**	**GC19**	**90605**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**5.8**	1.0	1	05/21/2014 15:17
MTBE	ND	0.050	1	05/21/2014 15:17
Benzene	ND	0.0050	1	05/21/2014 15:17
Toluene	**0.011**	0.0050	1	05/21/2014 15:17
Ethylbenzene	ND	0.0050	1	05/21/2014 15:17
Xylenes	**0.012**	0.0050	1	05/21/2014 15:17

Surrogates	REC (%)	Limits	Analytical Comments: d7,d9	
2-Fluorotoluene	90	70-130		05/21/2014 15:17

BB-7.5	1405768-002A	Soil	05/20/2014	GC19	90605

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**61**	20	20	05/21/2014 13:42
MTBE	ND	1.0	20	05/21/2014 13:42
Benzene	ND	0.10	20	05/21/2014 13:42
Toluene	ND	0.10	20	05/21/2014 13:42
Ethylbenzene	ND	0.10	20	05/21/2014 13:42
Xylenes	ND	0.10	20	05/21/2014 13:42

Surrogates	REC (%)	Limits	Analytical Comments: d7	
2-Fluorotoluene	105	70-130		05/21/2014 13:42

BB-12.5	1405768-003A	Soil	05/20/2014	GC7	90605

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**610**	200	200	05/20/2014 18:13
MTBE	ND	10	200	05/20/2014 18:13
Benzene	ND	1.0	200	05/20/2014 18:13
Toluene	ND	1.0	200	05/20/2014 18:13
Ethylbenzene	ND	1.0	200	05/20/2014 18:13
Xylenes	ND	1.0	200	05/20/2014 18:13

Surrogates	REC (%)	Limits	Analytical Comments: d7	
aaa-TFT	90	70-130		05/20/2014 18:13

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW5030B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	5/20/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-16	**1405768-004A**	**Soil**	**05/20/2014**	**GC7**	**90605**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**750**	200	200	05/20/2014 18:43
MTBE	ND	10	200	05/20/2014 18:43
Benzene	ND	1.0	200	05/20/2014 18:43
Toluene	ND	1.0	200	05/20/2014 18:43
Ethylbenzene	ND	1.0	200	05/20/2014 18:43
Xylenes	ND	1.0	200	05/20/2014 18:43
Surrogates	REC (%)	Limits	Analytical Comments: d7	
aaa-TFT	95	70-130		05/20/2014 18:43

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3050B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW6020
Date Prepared:	5/20/14	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-4	**1405768-001A**	**Soil/TOTAL**	**05/20/2014**	**ICP-MS1**	**90619**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**2.1**	0.25	1	05/21/2014 10:24
Chromium	**26**	0.50	1	05/21/2014 10:24
Copper	**20**	0.50	1	05/21/2014 10:24
Lead	**4.2**	0.50	1	05/21/2014 10:24
Mercury	ND	0.050	1	05/21/2014 10:24
Nickel	**33**	0.50	1	05/21/2014 10:24
Zinc	**65**	5.0	1	05/21/2014 10:24

Surrogates	REC (%)	Limits	
Tb 350.917	110	70-130	05/21/2014 10:24

BB-7.5	1405768-002A	Soil/TOTAL	05/20/2014	ICP-MS1	90619

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/21/2014 10:30
Chromium	**50**	0.50	1	05/21/2014 10:30
Copper	**16**	0.50	1	05/21/2014 10:30
Lead	**6.8**	0.50	1	05/21/2014 10:30
Mercury	**0.054**	0.050	1	05/21/2014 10:30
Nickel	**55**	0.50	1	05/21/2014 10:30
Zinc	**44**	5.0	1	05/21/2014 10:30

Surrogates	REC (%)	Limits	
Tb 350.917	111	70-130	05/21/2014 10:30

BB-12.5	1405768-003A	Soil/TOTAL	05/20/2014	ICP-MS1	90619

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/21/2014 10:37
Chromium	**63**	0.50	1	05/21/2014 10:37
Copper	**17**	0.50	1	05/21/2014 10:37
Lead	**47**	0.50	1	05/21/2014 10:37
Mercury	**0.080**	0.050	1	05/21/2014 10:37
Nickel	**83**	0.50	1	05/21/2014 10:37
Zinc	**54**	5.0	1	05/21/2014 10:37

Surrogates	REC (%)	Limits	
Tb 350.917	109	70-130	05/21/2014 10:37

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3050B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW6020
Date Prepared:	5/20/14	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-16	**1405768-004A**	**Soil/TOTAL**	**05/20/2014**	**ICP-MS1**	**90619**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/21/2014 10:43
Chromium	**62**	0.50	1	05/21/2014 10:43
Copper	**13**	0.50	1	05/21/2014 10:43
Lead	**3.0**	0.50	1	05/21/2014 10:43
Mercury	ND	0.050	1	05/21/2014 10:43
Nickel	**53**	0.50	1	05/21/2014 10:43
Zinc	**31**	5.0	1	05/21/2014 10:43
Surrogates	REC (%)	Limits		
Tb 350.917	109	70-130		05/21/2014 10:43

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Project:	Owens Brockway Glass Plant	**Extraction Method:**	SW3550B
Date Received:	5/20/14 13:28	**Analytical Method:**	SW8015B
Date Prepared:	5/20/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
BB-4	**1405768-001A**	**Soil**	**05/20/2014**	**GC6B**	**90588**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**89**	5.0	5	05/22/2014 16:16
TPH-Motor Oil (C18-C36)	**140**	25	5	05/22/2014 16:16
TPH-Fuel Oil (C10-C36)	**180**	10	5	05/22/2014 16:16

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2
C9	111	70-130	05/22/2014 16:16

BB-7.5	1405768-002A	Soil	05/20/2014	GC6A	90588

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**450**	20	20	05/22/2014 16:16
TPH-Motor Oil (C18-C36)	**570**	100	20	05/22/2014 16:16
TPH-Fuel Oil (C10-C36)	**740**	40	20	05/22/2014 16:16

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2
C9	86	70-130	05/22/2014 16:16

BB-12.5	1405768-003A	Soil	05/20/2014	GC2B	90588

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2200**	10	10	05/22/2014 04:19
TPH-Motor Oil (C18-C36)	**2400**	50	10	05/22/2014 04:19
TPH-Fuel Oil (C10-C36)	**3500**	20	10	05/22/2014 04:19

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2
C9	107	70-130	05/22/2014 04:19

BB-16	1405768-004A	Soil	05/20/2014	GC11A	90588

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2400**	20	20	05/22/2014 05:42
TPH-Motor Oil (C18-C36)	**2800**	100	20	05/22/2014 05:42
TPH-Fuel Oil (C10-C36)	**3800**	40	20	05/22/2014 05:42

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2
C9	119	70-130	05/22/2014 05:42

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Date Prepared:	5/20/14	**BatchID:**	90625
Date Analyzed:	5/20/14	**Extraction Method:**	SW3550B
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Owens Brockway Glass Plant	**Sample ID:**	MB/LCS-90625 1405725-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	4.29	0.25	5	-	85.9	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 (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	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	-	0.25	-	-	-	-
4-Chloro-3-methylphenol	ND	5.34	0.25	5	-	107	30-130
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	5.14	0.25	5	-	103	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	4.56	0.25	5	-	91.2	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	-	-	-	-
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	4.73	0.25	5	-	94.6	30-130
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-

(Cont.)

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Date Prepared:	5/20/14	**BatchID:**	90625
Date Analyzed:	5/20/14	**Extraction Method:**	SW3550B
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Owens Brockway Glass Plant	**Sample ID:**	MB/LCS-90625 1405725-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
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 &/or 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	3.94	1.3	5	-	78.7	30-130
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	5.49	0.25	5	-	110	30-130
Pentachlorophenol	ND	3.29	1.3	5	-	65.9	30-130
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	4.90	0.25	5	-	98	30-130
Pyrene	ND	4.94	0.25	5	-	98.7	30-130
1,2,4-Trichlorobenzene	ND	4.86	0.25	5	-	97.3	30-130
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-
Surrogate Recovery							
2-Fluorophenol	4.84	4.62		5	97	92	30-130
Phenol-d5	4.81	4.63		5	96	93	30-130
Nitrobenzene-d5	4.32	4.33		5	86	87	30-130
2-Fluorobiphenyl	4.34	4.22		5	87	84	30-130
2,4,6-Tribromophenol	3.57	3.95		5	71	79	16-130
4-Terphenyl-d14	5.16	5.34		5	103	107	30-130

(Cont.)

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Date Prepared:	5/20/14	**BatchID:**	90625
Date Analyzed:	5/20/14	**Extraction Method:**	SW3550B
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Owens Brockway Glass Plant	**Sample ID:**	MB/LCS-90625 1405725-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	NR	NR	0	ND<20	NR	NR	-	NR	
4-Chloro-3-methylphenol	NR	NR	0	ND<20	NR	NR	-	NR	
2-Chlorophenol	NR	NR	0	ND<20	NR	NR	-	NR	
1,4-Dichlorobenzene	NR	NR	0	ND<20	NR	NR	-	NR	
2,4-Dinitrotoluene	NR	NR	0	ND<20	NR	NR	-	NR	
4-Nitrophenol	NR	NR	0	ND<100	NR	NR	-	NR	
N-Nitrosodi-n-propylamine	NR	NR	0	ND<20	NR	NR	-	NR	
Pentachlorophenol	NR	NR	0	ND<100	NR	NR	-	NR	
Phenol	NR	NR	0	ND<20	NR	NR	-	NR	
Pyrene	NR	NR	0	ND<20	NR	NR	-	NR	
1,2,4-Trichlorobenzene	NR	NR	0	ND<20	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorophenol	NR	NR	0		NR	NR	-	NR	
Phenol-d5	NR	NR	0		NR	NR	-	NR	
Nitrobenzene-d5	NR	NR	0		NR	NR	-	NR	
2-Fluorobiphenyl	NR	NR	0		NR	NR	-	NR	
2,4,6-Tribromophenol	NR	NR	0		NR	NR	-	NR	
4-Terphenyl-d14	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Date Prepared:	5/19/14	**BatchID:**	90605
Date Analyzed:	5/21/14	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Owens Brockway Glass Plant	**Sample ID:**	MB/LCS-90605 1405779-002AMS/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	0.687	0.40	0.60	-	114	70-130
MTBE	ND	0.0813	0.050	0.10	-	81.3	70-130
Benzene	ND	0.115	0.0050	0.10	-	115	70-130
Toluene	ND	0.112	0.0050	0.10	-	112	70-130
Ethylbenzene	ND	0.117	0.0050	0.10	-	117	70-130
Xylenes	ND	0.359	0.0050	0.30	-	120	70-130
Surrogate Recovery							
2-Fluorotoluene	0.120	0.108		0.10	120	108	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	0	ND<4	NR	NR	-	NR	
MTBE	NR	NR	0	ND<0.5	NR	NR	-	NR	
Benzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Toluene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Xylenes	NR	NR	0	ND<0.05	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Date Prepared:	5/20/14	**BatchID:**	90619
Date Analyzed:	5/21/14	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Owens Brockway Glass Plant	**Sample ID:**	MB/LCS-90619 1405768-004AMS/MSD

QC Summary Report for SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	53.4	0.25	50	-	107	75-125
Chromium	ND	53.4	0.50	50	-	107	75-125
Copper	ND	52.8	0.50	50	-	106	75-125
Lead	ND	53.4	0.50	50	-	107	75-125
Mercury	ND	1.18	0.050	1.25	-	94.7	75-125
Nickel	ND	52.4	0.50	50	-	105	75-125
Zinc	ND	544	5.0	500	-	109	75-125
Surrogate Recovery							
Tb 350.917	552	538		500	110	108	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	54.4	53.9	50	ND	109	108	75-125	1.02	20
Chromium	116	106	50	61.60	110	87.8	75-125	9.82	20
Copper	64.2	64.8	50	12.66	103	104	75-125	0.977	20
Lead	57.0	57.3	50	2.982	108	109	75-125	0.578	20
Mercury	1.16	1.18	1.25	ND	92.6	94.5	75-125	1.97	20
Nickel	NR	NR	50	52.51	NR	NR	75-125	NR	20
Zinc	565	564	500	30.84	107	107	75-125	0	20
Surrogate Recovery									
Tb 350.917	554	547	500		111	109	70-130	1.31	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1405768
Date Prepared:	5/19/14	**BatchID:**	90588
Date Analyzed:	5/20/14	**Extraction Method:**	SW3550B
Instrument:	GC6A, GC6B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Owens Brockway Glass Plant	**Sample ID:**	MB/LCS-90588 1405722-001AMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	38.9	1.0	40	-	97.2	70-130
Surrogate Recovery							
C9	22.0	24.3		25	88	97	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	0	1800	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR	0		NR	NR	-	NR	

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405768 **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 Glass Plant

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

Requested TAT: 2 days

Date Received: **05/20/2014**
Date Printed: **05/20/2014**

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
1405768-001	BB-4	Soil	5/20/2014	☐	A	A	A	A								
1405768-002	BB-7.5	Soil	5/20/2014	☐	A	A	A	A								
1405768-003	BB-12.5	Soil	5/20/2014	☐	A	A	A	A								
1405768-004	BB-16	Soil	5/20/2014	☐	A	A	A	A								

Test Legend:

1	8270D_S	2	G-MBTEX_S	3	METALSMS_S	4	TPH_S	5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments: 2 Day TAT

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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WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL
Project: Owens Brockway Glass Plant
Comments: 2 Day TAT

QC Level: LEVEL 2
Client Contact: Christina Kennedy
Contact's Email: ckennedy@geologist.com

Work Order: 1405768
Date Received: 5/20/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405768-001A	BB-4	Soil	SW8015B (TEPHs) <TPH-Diesel (C10-C23), TPH-Fuel Oil (C10-C36), TPH-Motor Oil (C18-C36)>	1	Acetate Liner	☐	5/20/2014	2 days		☐	
			SW6020 (Metals) <Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc>			☐		2 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		2 days		☐	
			SW8270C (SVOCs)			☐		2 days		☐	
1405768-002A	BB-7.5	Soil	SW8015B (TEPHs) <TPH-Diesel (C10-C23), TPH-Fuel Oil (C10-C36), TPH-Motor Oil (C18-C36)>	1	Acetate Liner	☐	5/20/2014	2 days		☐	
			SW6020 (Metals) <Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc>			☐		2 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		2 days		☐	
			SW8270C (SVOCs)			☐		2 days		☐	
1405768-003A	BB-12.5	Soil	SW8015B (TEPHs) <TPH-Diesel (C10-C23), TPH-Fuel Oil (C10-C36), TPH-Motor Oil (C18-C36)>	1	Acetate Liner	☐	5/20/2014	2 days		☐	
			SW6020 (Metals) <Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc>			☐		2 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		2 days		☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
Acetate Liner = Acetate Liner

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http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL
Project: Owens Brockway Glass Plant
Comments: 2 Day TAT

QC Level: LEVEL 2
Client Contact: Christina Kennedy
Contact's Email: ckennedy@geologist.com

Work Order: 1405768
Date Received: 5/20/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405768-003A	BB-12.5	Soil	SW8270C (SVOCs)	1	Acetate Liner	☐	5/20/2014	2 days		☐	
1405768-004A	BB-16	Soil	SW8015B (TEPHs) <TPH-Diesel (C10-C23), TPH-Fuel Oil (C10-C36), TPH-Motor Oil (C18-C36)>	1	Acetate Liner	☐	5/20/2014	2 days		☐	
			SW6020 (Metals) <Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc>			☐		2 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		2 days		☐	
			SW8270C (SVOCs)			☐		2 days		☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
Acetate Liner = Acetate Liner

14105768

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

RUSH

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Chris Kennedy Bill To:
Company: CKA Environmental
P.O Box 246
St. Helena CA 94574 E-Mail: ckennedy@geologist.com
Tele: (707 967-8080 Fax: (707 967 8080
Project #: Project Name:
Project Location:
Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other
BB-4		5/20/14												
BB-7.5		"												
BB-12.5		"												
BB-16		"												

Analysis Request

BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) + MO + Fuel Oil	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 8260 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515.3 / 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 (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other	Comments
✓	✓										✓	✓		✓	✓	Cu + Hg	Filter Samples for Metals analysis: Yes / No
1	1										1	1		1	1	1	

	Date:	Time:	Received By:
Relinquished By:	5/20/14	1301	
Relinquished By:			
Relinquished By:			

ICE/t° 10.6
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER
PRESERVATION pH<2

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Sample Receipt Checklist

Client Name: **CKG Environmental**
Date and Time Received: **5/20/2014 1:28:41 PM**
Project Name: **Owens Brockway Glass Plant**
LogIn Reviewed by: Maria Venegas
WorkOrder N°: **1405768** Matrix: Soil
Carrier: Client Drop-In

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 ☐	
Container/Temp Blank temperature	Cooler Temp: 10.6°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: pH<2; 522: pH<4)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

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

Comments:

Appendix 5
Excavation C Laboratory Report

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1406907

Report Created for: CKG Environmental
P.O. Box 246
St. Helena, CA 94574

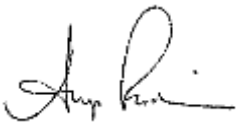
Project Contact: Christina Kennedy
Project P.O.:
Project Name: Underground Facilities Removal, Owens Brockway

Project Received: 06/24/2014

Analytical Report reviewed & approved for release on 07/10/2014 by:

Question about your data?

Click here to email McCampbell



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"
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Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Underground Facilities Removal, Owens Brockway
WorkOrder: 1406907

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
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
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
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
TEQ	Toxicity Equivalence

Analytical Qualifiers

H	samples were analyzed out of holding time
S	spike recovery outside accepted recovery limits
a3	sample diluted due to high organic content.
b1	aqueous sample that contains greater than ~1 vol. % sediment
b6	lighter than water immiscible sheen/product is present
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
e2	diesel range compounds are significant; no recognizable pattern
e3	aged diesel is significant
e7	oil range compounds are significant
h4	sulfuric acid permanganate (EPA 3665) cleanup
j1	see attached narrative

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Case Narrative

Client: CKG Environmental **Work Order:** 1406907
Project: Underground Facilities Removal, Owens Brockway June 27, 2014

j1) surrogate recovery is over acceptance limits however, the reported PCB data is Not Detected (ND) therefore, the data is considered acceptable.

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW3550B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8082
Date Prepared:	6/24/14	**Unit:**	mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS2	**1406907-001A**	**Soil**	**06/24/2014**	**GC5A**	**92006**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	06/26/2014 17:22
Aroclor1221	ND	0.050	1	06/26/2014 17:22
Aroclor1232	ND	0.050	1	06/26/2014 17:22
Aroclor1242	ND	0.050	1	06/26/2014 17:22
Aroclor1248	ND	0.050	1	06/26/2014 17:22
Aroclor1254	ND	0.050	1	06/26/2014 17:22
Aroclor1260	ND	0.050	1	06/26/2014 17:22
PCBs, total	ND	0.050	1	06/26/2014 17:22

Surrogates	REC (%)	Limits	Analytical Comments: h4	
Decachlorobiphenyl	105	70-130		06/26/2014 17:22

EXC SS1	1406907-002A	Soil	06/24/2014	GC5A	92006

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	06/26/2014 16:45
Aroclor1221	ND	0.050	1	06/26/2014 16:45
Aroclor1232	ND	0.050	1	06/26/2014 16:45
Aroclor1242	ND	0.050	1	06/26/2014 16:45
Aroclor1248	ND	0.050	1	06/26/2014 16:45
Aroclor1254	ND	0.050	1	06/26/2014 16:45
Aroclor1260	ND	0.050	1	06/26/2014 16:45
PCBs, total	ND	0.050	1	06/26/2014 16:45

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: h4,j1	
Decachlorobiphenyl	162	S	70-130		06/26/2014 16:45

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW3510C
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8082
Date Prepared:	6/24/14	**Unit:**	µg/L

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC GW1	**1406907-003D**	**Water**	**06/24/2014**	**GC20**	**92012**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	2.5	5	06/25/2014 23:20
Aroclor1221	ND	2.5	5	06/25/2014 23:20
Aroclor1232	ND	2.5	5	06/25/2014 23:20
Aroclor1242	ND	2.5	5	06/25/2014 23:20
Aroclor1248	ND	2.5	5	06/25/2014 23:20
Aroclor1254	ND	2.5	5	06/25/2014 23:20
Aroclor1260	ND	2.5	5	06/25/2014 23:20
PCBs, total	ND	2.5	5	06/25/2014 23:20

Surrogates	REC (%)	Limits	Analytical Comments: b6,a3,b1
Decachlorobiphenyl	116	70-130	06/25/2014 23:20

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW5030B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	6/24/14-6/30/14	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS2	1406907-001A	Soil	06/24/2014	GC10	92198

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	07/03/2014 17:56
tert-Amyl methyl ether (TAME)	ND	0.0050	1	07/03/2014 17:56
Benzene	ND	0.0050	1	07/03/2014 17:56
Bromobenzene	ND	0.0050	1	07/03/2014 17:56
Bromochloromethane	ND	0.0050	1	07/03/2014 17:56
Bromodichloromethane	ND	0.0050	1	07/03/2014 17:56
Bromoform	ND	0.0050	1	07/03/2014 17:56
Bromomethane	ND	0.0050	1	07/03/2014 17:56
2-Butanone (MEK)	ND	0.020	1	07/03/2014 17:56
t-Butyl alcohol (TBA)	ND	0.050	1	07/03/2014 17:56
n-Butyl benzene	ND	0.0050	1	07/03/2014 17:56
sec-Butyl benzene	ND	0.0050	1	07/03/2014 17:56
tert-Butyl benzene	ND	0.0050	1	07/03/2014 17:56
Carbon Disulfide	ND	0.0050	1	07/03/2014 17:56
Carbon Tetrachloride	ND	0.0050	1	07/03/2014 17:56
Chlorobenzene	ND	0.0050	1	07/03/2014 17:56
Chloroethane	ND	0.0050	1	07/03/2014 17:56
Chloroform	ND	0.0050	1	07/03/2014 17:56
Chloromethane	ND	0.0050	1	07/03/2014 17:56
2-Chlorotoluene	ND	0.0050	1	07/03/2014 17:56
4-Chlorotoluene	ND	0.0050	1	07/03/2014 17:56
Dibromochloromethane	ND	0.0050	1	07/03/2014 17:56
1,2-Dibromo-3-chloropropane	ND	0.0040	1	07/03/2014 17:56
1,2-Dibromoethane (EDB)	ND	0.0040	1	07/03/2014 17:56
Dibromomethane	ND	0.0050	1	07/03/2014 17:56
1,2-Dichlorobenzene	ND	0.0050	1	07/03/2014 17:56
1,3-Dichlorobenzene	ND	0.0050	1	07/03/2014 17:56
1,4-Dichlorobenzene	ND	0.0050	1	07/03/2014 17:56
Dichlorodifluoromethane	ND	0.0050	1	07/03/2014 17:56
1,1-Dichloroethane	ND	0.0050	1	07/03/2014 17:56
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	07/03/2014 17:56
1,1-Dichloroethene	ND	0.0050	1	07/03/2014 17:56
cis-1,2-Dichloroethene	ND	0.0050	1	07/03/2014 17:56
trans-1,2-Dichloroethene	ND	0.0050	1	07/03/2014 17:56
1,2-Dichloropropane	ND	0.0050	1	07/03/2014 17:56
1,3-Dichloropropane	ND	0.0050	1	07/03/2014 17:56
2,2-Dichloropropane	ND	0.0050	1	07/03/2014 17:56
1,1-Dichloropropene	ND	0.0050	1	07/03/2014 17:56

(Cont.)

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW5030B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	6/24/14-6/30/14	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS2	**1406907-001A**	**Soil**	**06/24/2014**	**GC10**	**92198**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	07/03/2014 17:56
trans-1,3-Dichloropropene	ND	0.0050	1	07/03/2014 17:56
Diisopropyl ether (DIPE)	ND	0.0050	1	07/03/2014 17:56
Ethylbenzene	ND	0.0050	1	07/03/2014 17:56
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	07/03/2014 17:56
Freon 113	ND	0.10	1	07/03/2014 17:56
Hexachlorobutadiene	ND	0.0050	1	07/03/2014 17:56
Hexachloroethane	ND	0.0050	1	07/03/2014 17:56
2-Hexanone	ND	0.0050	1	07/03/2014 17:56
Isopropylbenzene	ND	0.0050	1	07/03/2014 17:56
4-Isopropyl toluene	ND	0.0050	1	07/03/2014 17:56
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	07/03/2014 17:56
Methylene chloride	**0.0051**	0.0050	1	07/03/2014 17:56
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	07/03/2014 17:56
Naphthalene	ND	0.0050	1	07/03/2014 17:56
n-Propyl benzene	ND	0.0050	1	07/03/2014 17:56
Styrene	ND	0.0050	1	07/03/2014 17:56
1,1,1,2-Tetrachloroethane	ND	0.0050	1	07/03/2014 17:56
1,1,2,2-Tetrachloroethane	ND	0.0050	1	07/03/2014 17:56
Tetrachloroethene	ND	0.0050	1	07/03/2014 17:56
Toluene	ND	0.0050	1	07/03/2014 17:56
1,2,3-Trichlorobenzene	ND	0.0050	1	07/03/2014 17:56
1,2,4-Trichlorobenzene	ND	0.0050	1	07/03/2014 17:56
1,1,1-Trichloroethane	ND	0.0050	1	07/03/2014 17:56
1,1,2-Trichloroethane	ND	0.0050	1	07/03/2014 17:56
Trichloroethene	ND	0.0050	1	07/03/2014 17:56
Trichlorofluoromethane	ND	0.0050	1	07/03/2014 17:56
1,2,3-Trichloropropane	ND	0.0050	1	07/03/2014 17:56
1,2,4-Trimethylbenzene	ND	0.0050	1	07/03/2014 17:56
1,3,5-Trimethylbenzene	ND	0.0050	1	07/03/2014 17:56
Vinyl Chloride	ND	0.0050	1	07/03/2014 17:56
Xylenes, Total	ND	0.0050	1	07/03/2014 17:56

Surrogates	REC (%)	Limits	
Dibromofluoromethane	93	70-130	07/03/2014 17:56
Toluene-d8	98	70-130	07/03/2014 17:56
4-BFB	97	70-130	07/03/2014 17:56

(Cont.)

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW5030B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	6/24/14-6/30/14	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS1	1406907-002A	Soil	06/24/2014	GC16	91981

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/29/2014 19:55
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/29/2014 19:55
Benzene	ND	0.0050	1	06/29/2014 19:55
Bromobenzene	ND	0.0050	1	06/29/2014 19:55
Bromochloromethane	ND	0.0050	1	06/29/2014 19:55
Bromodichloromethane	ND	0.0050	1	06/29/2014 19:55
Bromoform	ND	0.0050	1	06/29/2014 19:55
Bromomethane	ND	0.0050	1	06/29/2014 19:55
2-Butanone (MEK)	ND	0.020	1	06/29/2014 19:55
t-Butyl alcohol (TBA)	ND	0.050	1	06/29/2014 19:55
n-Butyl benzene	ND	0.0050	1	06/29/2014 19:55
sec-Butyl benzene	ND	0.0050	1	06/29/2014 19:55
tert-Butyl benzene	ND	0.0050	1	06/29/2014 19:55
Carbon Disulfide	ND	0.0050	1	06/29/2014 19:55
Carbon Tetrachloride	ND	0.0050	1	06/29/2014 19:55
Chlorobenzene	ND	0.0050	1	06/29/2014 19:55
Chloroethane	ND	0.0050	1	06/29/2014 19:55
Chloroform	ND	0.0050	1	06/29/2014 19:55
Chloromethane	ND	0.0050	1	06/29/2014 19:55
2-Chlorotoluene	ND	0.0050	1	06/29/2014 19:55
4-Chlorotoluene	ND	0.0050	1	06/29/2014 19:55
Dibromochloromethane	ND	0.0050	1	06/29/2014 19:55
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/29/2014 19:55
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/29/2014 19:55
Dibromomethane	ND	0.0050	1	06/29/2014 19:55
1,2-Dichlorobenzene	ND	0.0050	1	06/29/2014 19:55
1,3-Dichlorobenzene	ND	0.0050	1	06/29/2014 19:55
1,4-Dichlorobenzene	ND	0.0050	1	06/29/2014 19:55
Dichlorodifluoromethane	ND	0.0050	1	06/29/2014 19:55
1,1-Dichloroethane	ND	0.0050	1	06/29/2014 19:55
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/29/2014 19:55
1,1-Dichloroethene	ND	0.0050	1	06/29/2014 19:55
cis-1,2-Dichloroethene	ND	0.0050	1	06/29/2014 19:55
trans-1,2-Dichloroethene	ND	0.0050	1	06/29/2014 19:55
1,2-Dichloropropane	ND	0.0050	1	06/29/2014 19:55
1,3-Dichloropropane	ND	0.0050	1	06/29/2014 19:55
2,2-Dichloropropane	ND	0.0050	1	06/29/2014 19:55
1,1-Dichloropropene	ND	0.0050	1	06/29/2014 19:55

(Cont.)

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW5030B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	6/24/14-6/30/14	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS1	**1406907-002A**	**Soil**	**06/24/2014**	**GC16**	**91981**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	06/29/2014 19:55
trans-1,3-Dichloropropene	ND	0.0050	1	06/29/2014 19:55
Diisopropyl ether (DIPE)	ND	0.0050	1	06/29/2014 19:55
Ethylbenzene	ND	0.0050	1	06/29/2014 19:55
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/29/2014 19:55
Freon 113	ND	0.10	1	06/29/2014 19:55
Hexachlorobutadiene	ND	0.0050	1	06/29/2014 19:55
Hexachloroethane	ND	0.0050	1	06/29/2014 19:55
2-Hexanone	ND	0.0050	1	06/29/2014 19:55
Isopropylbenzene	ND	0.0050	1	06/29/2014 19:55
4-Isopropyl toluene	ND	0.0050	1	06/29/2014 19:55
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/29/2014 19:55
Methylene chloride	ND	0.0050	1	06/29/2014 19:55
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/29/2014 19:55
Naphthalene	ND	0.0050	1	06/29/2014 19:55
n-Propyl benzene	ND	0.0050	1	06/29/2014 19:55
Styrene	ND	0.0050	1	06/29/2014 19:55
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/29/2014 19:55
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/29/2014 19:55
Tetrachloroethene	ND	0.0050	1	06/29/2014 19:55
Toluene	ND	0.0050	1	06/29/2014 19:55
1,2,3-Trichlorobenzene	ND	0.0050	1	06/29/2014 19:55
1,2,4-Trichlorobenzene	ND	0.0050	1	06/29/2014 19:55
1,1,1-Trichloroethane	ND	0.0050	1	06/29/2014 19:55
1,1,2-Trichloroethane	ND	0.0050	1	06/29/2014 19:55
Trichloroethene	ND	0.0050	1	06/29/2014 19:55
Trichlorofluoromethane	ND	0.0050	1	06/29/2014 19:55
1,2,3-Trichloropropane	ND	0.0050	1	06/29/2014 19:55
1,2,4-Trimethylbenzene	ND	0.0050	1	06/29/2014 19:55
1,3,5-Trimethylbenzene	ND	0.0050	1	06/29/2014 19:55
Vinyl Chloride	ND	0.0050	1	06/29/2014 19:55
Xylenes, Total	ND	0.0050	1	06/29/2014 19:55

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: c4,c11
Dibromofluoromethane	100		70-130	06/29/2014 19:55
Toluene-d8	109		70-130	06/29/2014 19:55
4-BFB	139	S	70-130	06/29/2014 19:55

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW5030B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	7/4/14	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC GW1	**1406907-003C**	**Water**	**06/24/2014**	**GC28**	**92358**

Analytes	Result	RL	DF	Date Analyzed
Acetone	**15**	10	1	07/04/2014 15:13
tert-Amyl methyl ether (TAME)	ND	0.50	1	07/04/2014 15:13
Benzene	ND	0.50	1	07/04/2014 15:13
Bromobenzene	ND	0.50	1	07/04/2014 15:13
Bromochloromethane	ND	0.50	1	07/04/2014 15:13
Bromodichloromethane	ND	0.50	1	07/04/2014 15:13
Bromoform	ND	0.50	1	07/04/2014 15:13
Bromomethane	ND	0.50	1	07/04/2014 15:13
2-Butanone (MEK)	**3.6**	2.0	1	07/04/2014 15:13
t-Butyl alcohol (TBA)	ND	2.0	1	07/04/2014 15:13
n-Butyl benzene	ND	0.50	1	07/04/2014 15:13
sec-Butyl benzene	ND	0.50	1	07/04/2014 15:13
tert-Butyl benzene	ND	0.50	1	07/04/2014 15:13
Carbon Disulfide	ND	0.50	1	07/04/2014 15:13
Carbon Tetrachloride	ND	0.50	1	07/04/2014 15:13
Chlorobenzene	ND	0.50	1	07/04/2014 15:13
Chloroethane	ND	0.50	1	07/04/2014 15:13
Chloroform	ND	0.50	1	07/04/2014 15:13
Chloromethane	ND	0.50	1	07/04/2014 15:13
2-Chlorotoluene	ND	0.50	1	07/04/2014 15:13
4-Chlorotoluene	ND	0.50	1	07/04/2014 15:13
Dibromochloromethane	ND	0.50	1	07/04/2014 15:13
1,2-Dibromo-3-chloropropane	ND	0.20	1	07/04/2014 15:13
1,2-Dibromoethane (EDB)	ND	0.50	1	07/04/2014 15:13
Dibromomethane	ND	0.50	1	07/04/2014 15:13
1,2-Dichlorobenzene	ND	0.50	1	07/04/2014 15:13
1,3-Dichlorobenzene	ND	0.50	1	07/04/2014 15:13
1,4-Dichlorobenzene	ND	0.50	1	07/04/2014 15:13
Dichlorodifluoromethane	ND	0.50	1	07/04/2014 15:13
1,1-Dichloroethane	ND	0.50	1	07/04/2014 15:13
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	07/04/2014 15:13
1,1-Dichloroethene	ND	0.50	1	07/04/2014 15:13
cis-1,2-Dichloroethene	ND	0.50	1	07/04/2014 15:13
trans-1,2-Dichloroethene	ND	0.50	1	07/04/2014 15:13
1,2-Dichloropropane	ND	0.50	1	07/04/2014 15:13
1,3-Dichloropropane	ND	0.50	1	07/04/2014 15:13
2,2-Dichloropropane	ND	0.50	1	07/04/2014 15:13
1,1-Dichloropropene	ND	0.50	1	07/04/2014 15:13

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW5030B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	7/4/14	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC GW1	**1406907-003C**	**Water**	**06/24/2014**	**GC28**	**92358**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50	1	07/04/2014 15:13
trans-1,3-Dichloropropene	ND	0.50	1	07/04/2014 15:13
Diisopropyl ether (DIPE)	ND	0.50	1	07/04/2014 15:13
Ethylbenzene	ND	0.50	1	07/04/2014 15:13
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	07/04/2014 15:13
Freon 113	ND	0.50	1	07/04/2014 15:13
Hexachlorobutadiene	ND	0.50	1	07/04/2014 15:13
Hexachloroethane	ND	0.50	1	07/04/2014 15:13
2-Hexanone	ND	0.50	1	07/04/2014 15:13
Isopropylbenzene	ND	0.50	1	07/04/2014 15:13
4-Isopropyl toluene	ND	0.50	1	07/04/2014 15:13
Methyl-t-butyl ether (MTBE)	ND	0.50	1	07/04/2014 15:13
Methylene chloride	ND	0.50	1	07/04/2014 15:13
4-Methyl-2-pentanone (MIBK)	**0.62**	0.50	1	07/04/2014 15:13
Naphthalene	ND	0.50	1	07/04/2014 15:13
n-Propyl benzene	ND	0.50	1	07/04/2014 15:13
Styrene	ND	0.50	1	07/04/2014 15:13
1,1,1,2-Tetrachloroethane	ND	0.50	1	07/04/2014 15:13
1,1,2,2-Tetrachloroethane	ND	0.50	1	07/04/2014 15:13
Tetrachloroethene	ND	0.50	1	07/04/2014 15:13
Toluene	ND	0.50	1	07/04/2014 15:13
1,2,3-Trichlorobenzene	ND	0.50	1	07/04/2014 15:13
1,2,4-Trichlorobenzene	ND	0.50	1	07/04/2014 15:13
1,1,1-Trichloroethane	ND	0.50	1	07/04/2014 15:13
1,1,2-Trichloroethane	ND	0.50	1	07/04/2014 15:13
Trichloroethene	ND	0.50	1	07/04/2014 15:13
Trichlorofluoromethane	ND	0.50	1	07/04/2014 15:13
1,2,3-Trichloropropane	ND	0.50	1	07/04/2014 15:13
1,2,4-Trimethylbenzene	ND	0.50	1	07/04/2014 15:13
1,3,5-Trimethylbenzene	ND	0.50	1	07/04/2014 15:13
Vinyl Chloride	ND	0.50	1	07/04/2014 15:13
Xylenes, Total	ND	0.50	1	07/04/2014 15:13

Surrogates	REC (%)	Limits	Analytical Comments: b6,b1
Dibromofluoromethane	93	70-130	07/04/2014 15:13
Toluene-d8	91	70-130	07/04/2014 15:13
4-BFB	88	70-130	07/04/2014 15:13

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW3550B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8270C-SIM
Date Prepared:	6/26/14	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS2	**1406907-001A**	**Soil**	**06/24/2014**	**GC35**	**92083**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.010	1	06/26/2014 16:17
Acenaphthylene	ND	0.010	1	06/26/2014 16:17
Anthracene	ND	0.010	1	06/26/2014 16:17
Benzo (a) anthracene	ND	0.010	1	06/26/2014 16:17
Benzo (b) fluoranthene	ND	0.010	1	06/26/2014 16:17
Benzo (k) fluoranthene	ND	0.010	1	06/26/2014 16:17
Benzo (g,h,i) perylene	ND	0.010	1	06/26/2014 16:17
Benzo (a) pyrene	ND	0.010	1	06/26/2014 16:17
Chrysene	ND	0.010	1	06/26/2014 16:17
Dibenzo (a,h) anthracene	ND	0.010	1	06/26/2014 16:17
Fluoranthene	ND	0.010	1	06/26/2014 16:17
Fluorene	ND	0.010	1	06/26/2014 16:17
Indeno (1,2,3-cd) pyrene	ND	0.010	1	06/26/2014 16:17
1-Methylnaphthalene	ND	0.010	1	06/26/2014 16:17
2-Methylnaphthalene	ND	0.010	1	06/26/2014 16:17
Naphthalene	ND	0.010	1	06/26/2014 16:17
Phenanthrene	ND	0.010	1	06/26/2014 16:17
Pyrene	ND	0.010	1	06/26/2014 16:17

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: c2
1-Fluoronapthalene	132	S	30-130	06/26/2014 16:17
2-Fluorobiphenyl	129		30-130	06/26/2014 16:17

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW3550B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8270C-SIM
Date Prepared:	6/26/14	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS1	**1406907-002A**	**Soil**	**06/24/2014**	**GC35**	**92083**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.050	5	06/27/2014 17:23
Acenaphthylene	ND	0.050	5	06/27/2014 17:23
Anthracene	ND	0.050	5	06/27/2014 17:23
Benzo (a) anthracene	ND	0.050	5	06/27/2014 17:23
Benzo (b) fluoranthene	ND	0.050	5	06/27/2014 17:23
Benzo (k) fluoranthene	ND	0.050	5	06/27/2014 17:23
Benzo (g,h,i) perylene	ND	0.050	5	06/27/2014 17:23
Benzo (a) pyrene	ND	0.050	5	06/27/2014 17:23
Chrysene	ND	0.050	5	06/27/2014 17:23
Dibenzo (a,h) anthracene	ND	0.050	5	06/27/2014 17:23
Fluoranthene	ND	0.050	5	06/27/2014 17:23
Fluorene	ND	0.050	5	06/27/2014 17:23
Indeno (1,2,3-cd) pyrene	ND	0.050	5	06/27/2014 17:23
1-Methylnaphthalene	ND	0.050	5	06/27/2014 17:23
2-Methylnaphthalene	ND	0.050	5	06/27/2014 17:23
Naphthalene	ND	0.050	5	06/27/2014 17:23
Phenanthrene	ND	0.050	5	06/27/2014 17:23
Pyrene	ND	0.050	5	06/27/2014 17:23

Surrogates	REC (%)	Limits	Analytical Comments: a3	
1-Fluoronapthalene	124	30-130		06/27/2014 17:23
2-Fluorobiphenyl	116	30-130		06/27/2014 17:23

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW3510C
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8270C-SIM
Date Prepared:	6/27/14	**Unit:**	µg/L

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC GW1	**1406907-003E**	**Water**	**06/24/2014**	**GC35**	**92145**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	25	50	06/30/2014 15:18
Acenaphthylene	ND	25	50	06/30/2014 15:18
Anthracene	ND	25	50	06/30/2014 15:18
Benzo (a) anthracene	ND	25	50	06/30/2014 15:18
Benzo (b) fluoranthene	ND	25	50	06/30/2014 15:18
Benzo (k) fluoranthene	ND	25	50	06/30/2014 15:18
Benzo (g,h,i) perylene	ND	25	50	06/30/2014 15:18
Benzo (a) pyrene	ND	25	50	06/30/2014 15:18
Chrysene	ND	25	50	06/30/2014 15:18
Dibenzo (a,h) anthracene	ND	25	50	06/30/2014 15:18
Fluoranthene	ND	25	50	06/30/2014 15:18
Fluorene	ND	25	50	06/30/2014 15:18
Indeno (1,2,3-cd) pyrene	ND	25	50	06/30/2014 15:18
1-Methylnaphthalene	ND	25	50	06/30/2014 15:18
2-Methylnaphthalene	ND	25	50	06/30/2014 15:18
Naphthalene	ND	25	50	06/30/2014 15:18
Phenanthrene	ND	25	50	06/30/2014 15:18
Pyrene	ND	25	50	06/30/2014 15:18

Surrogates	REC (%)	Limits	Analytical Comments: a3,b6,b1
1-Fluoronapthalene	72	30-130	06/30/2014 15:18
2-Fluorobiphenyl	79	30-130	06/30/2014 15:18

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW5030B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	6/24/14	**Unit:**	mg/kg

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS2	**1406907-001A**	**Soil**	**06/24/2014**	**GC16**	**91981**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	06/29/2014 19:12

Surrogates	REC (%)	Limits	
Toluene-d8	94	70-130	06/29/2014 19:12

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS1	**1406907-002A**	**Soil**	**06/24/2014**	**GC16**	**91981**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	06/29/2014 19:55

Surrogates	REC (%)	Limits	
Toluene-d8	96	70-130	06/29/2014 19:55

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW5030B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	7/3/14	**Unit:**	µg/L

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC GW1	**1406907-003C**	**Water**	**06/24/2014**	**GC28**	**92358**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**110**	50	1	07/03/2014 22:08

Surrogates	REC (%)	Limits	Analytical Comments: b6,b1	
Toluene-d8	95	70-130		07/03/2014 22:08

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW5030B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	6/24/14-6/30/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS2	**1406907-001A**	**Soil**	**06/24/2014**	**GC19**	**91983**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/27/2014 04:23
MTBE	ND	0.050	1	06/27/2014 04:23
Benzene	ND	0.0050	1	06/27/2014 04:23
Toluene	ND	0.0050	1	06/27/2014 04:23
Ethylbenzene	ND	0.0050	1	06/27/2014 04:23
Xylenes	ND	0.0050	1	06/27/2014 04:23
Surrogates	REC (%)	Limits		
2-Fluorotoluene	100	70-130		06/27/2014 04:23

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS1	**1406907-002A**	**Soil**	**06/24/2014**	**GC7**	**92222**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**6.5**	1.0	1	07/01/2014 16:48
MTBE	ND	0.050	1	07/01/2014 16:48
Benzene	ND	0.0050	1	07/01/2014 16:48
Toluene	ND	0.0050	1	07/01/2014 16:48
Ethylbenzene	ND	0.0050	1	07/01/2014 16:48
Xylenes	**0.069**	0.0050	1	07/01/2014 16:48
Surrogates	REC (%)	Limits	Analytical Comments: d7	
2-Fluorotoluene	117	70-130		07/01/2014 16:48

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW5030B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	6/26/14	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC GW1	**1406907-003A**	**Water**	**06/24/2014**	**GC3**	**92124**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	06/26/2014 19:36
MTBE	ND	5.0	1	06/26/2014 19:36
Benzene	ND	0.50	1	06/26/2014 19:36
Toluene	ND	0.50	1	06/26/2014 19:36
Ethylbenzene	ND	0.50	1	06/26/2014 19:36
Xylenes	ND	0.50	1	06/26/2014 19:36
Surrogates	REC (%)	Limits	Analytical Comments: b6,b1	
aaa-TFT	100	70-130		06/26/2014 19:36

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW3050B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW6020
Date Prepared:	6/24/14	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS2	**1406907-001A**	**Soil/TOTAL**	**06/24/2014**	**ICP-MS2**	**91998**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	06/26/2014 20:47
Chromium	**85**	0.50	1	06/26/2014 20:47
Lead	**4.0**	0.50	1	06/26/2014 20:47
Nickel	**130**	5.0	10	06/27/2014 16:48
Zinc	**52**	5.0	1	06/26/2014 20:47

Surrogates	REC (%)	Limits	
Tb 350.917	91	70-130	06/26/2014 20:47

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS1	**1406907-002A**	**Soil/TOTAL**	**06/24/2014**	**ICP-MS2**	**91998**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	06/26/2014 20:53
Chromium	**61**	0.50	1	06/26/2014 20:53
Lead	**3.0**	0.50	1	06/26/2014 20:53
Nickel	**100**	5.0	10	06/27/2014 16:55
Zinc	**48**	5.0	1	06/26/2014 20:53

Surrogates	REC (%)	Limits	
Tb 350.917	90	70-130	06/26/2014 20:53

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	E200.8
Date Received:	6/24/14 19:30	**Analytical Method:**	E200.8
Date Prepared:	6/24/14	**Unit:**	µg/L

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC GW1	**1406907-003F**	**Water/TOTAL**	**06/24/2014**	**ICP-MS2**	**92010**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**2.9**	2.5	10	06/27/2014 00:26
Chromium	**140**	5.0	10	06/27/2014 00:26
Lead	**79**	5.0	10	06/27/2014 00:26
Nickel	**200**	5.0	10	06/27/2014 00:26
Zinc	**270**	50	10	06/27/2014 00:26

Surrogates	REC (%)	Limits	Analytical Comments: b1
Tb 350.917	100	70-130	06/27/2014 00:26

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW3550B
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8015B
Date Prepared:	6/24/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS2	**1406907-001A**	**Soil**	**06/24/2014**	**GC6A**	**91975**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**13**	1.0	1	07/02/2014 10:48
TPH-Motor Oil (C18-C36)	**25**	5.0	1	07/02/2014 10:48

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	124	70-130		07/02/2014 10:48

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC SS1	**1406907-002A**	**Soil**	**06/24/2014**	**GC2B**	**92011**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1400**	5.0	5	07/02/2014 08:01
TPH-Motor Oil (C18-C36)	**1500**	25	5	07/02/2014 08:01

Surrogates	REC (%)	Limits	Analytical Comments: e3	
C9	109	70-130		07/02/2014 08:01

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Project:	Underground Facilities Removal, Owens Brockway	**Extraction Method:**	SW3510C
Date Received:	6/24/14 19:30	**Analytical Method:**	SW8015B
Date Prepared:	6/24/14	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXC GW1	**1406907-003B**	**Water**	**06/24/2014**	**GC6A**	**92009**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**69,000**	5000	100	07/01/2014 19:58
TPH-Motor Oil (C18-C36)	**70,000**	25,000	100	07/01/2014 19:58

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2,b6,b1
C9	94	70-130	07/01/2014 19:58

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/24/14	**BatchID:**	92006
Date Analyzed:	6/25/14	**Extraction Method:**	SW3550B
Instrument:	GC5A	**Analytical Method:**	SW8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92006 1406894-001AMS/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	0.150	0.050	0.15	-	100	70-130
PCBs, total	ND	-	0.050	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	0.0460	0.0468		0.050	92	94	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	NR	NR	0	ND<2.5	NR	NR	-	NR	
Surrogate Recovery									
Decachlorobiphenyl	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/24/14	**BatchID:**	92012
Date Analyzed:	6/26/14	**Extraction Method:**	SW3510C
Instrument:	GC20	**Analytical Method:**	SW8082
Matrix:	Water	**Unit:**	µg/L
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92012

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	3.80	0.50	3.75	-	101	70-130
PCBs, total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	1.38	1.47		1.25	110	117	70-130

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/30/14	**BatchID:**	92198
Date Analyzed:	7/1/14	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92198 1406A98-004AMS/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	0.0389	0.0050	0.050	-	77.8	70-130
Benzene	ND	0.0455	0.0050	0.050	-	91	70-130
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	0.196	0.050	0.20	-	98.1	70-130
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	0.0464	0.0050	0.050	-	92.8	70-130
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	0.0414	0.0040	0.050	-	82.9	70-130
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	0.0450	0.0040	0.050	-	89.9	70-130
1,1-Dichloroethene	ND	0.0328	0.0050	0.050	-	65.5, F2	70-130
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	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/30/14	**BatchID:**	92198
Date Analyzed:	7/1/14	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92198 1406A98-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0427	0.0050	0.050	-	85.5	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0421	0.0050	0.050	-	84.2	70-130
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	0.0426	0.0050	0.050	-	85.2	70-130
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	0.0479	0.0050	0.050	-	95.9	70-130
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	0.0460	0.0050	0.050	-	92.1	70-130
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	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.112	0.147		0.18	90	84	70-130
Toluene-d8	0.121	0.154		0.18	97	88	70-130
4-BFB	0.0124	0.0166		0.018	99	95	70-130

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/30/14	**BatchID:**	92198
Date Analyzed:	7/1/14	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92198 1406A98-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0325	0.0335	0.050	ND	65,F1	67.1,F1	70-130	3.12	30
Benzene	0.0367	0.0380	0.050	ND	73.5	76	70-130	3.40	30
t-Butyl alcohol (TBA)	0.161	0.166	0.20	ND	80.4	82.8	70-130	2.89	30
Chlorobenzene	0.0384	0.0396	0.050	ND	76.8	79.1	70-130	2.94	30
1,2-Dibromoethane (EDB)	0.0347	0.0358	0.050	ND	69.5,F1	71.7	70-130	3.11	30
1,2-Dichloroethane (1,2-DCA)	0.0369	0.0380	0.050	ND	73.9	76.1	70-130	2.94	30
1,1-Dichloroethene	0.0274	0.0285	0.050	ND	54.9,F1	57,F1	70-130	3.74	30
Diisopropyl ether (DIPE)	0.0346	0.0360	0.050	ND	69.3,F1	71.9	70-130	3.68	30
Ethyl tert-butyl ether (ETBE)	0.0342	0.0356	0.050	ND	68.4,F1	71.3	70-130	4.10	30
Methyl-t-butyl ether (MTBE)	0.0350	0.0363	0.050	ND	70.1	72.7	70-130	3.63	30
Toluene	0.0397	0.0409	0.050	ND	79.4	81.7	70-130	2.93	30
Trichloroethene	0.0373	0.0385	0.050	ND	74.6	77	70-130	3.12	30
Surrogate Recovery									
Dibromofluoromethane	0.149	0.151	0.18		85	86	70-130	1.27	30
Toluene-d8	0.161	0.162	0.18		92	93	70-130	0.786	30
4-BFB	0.0170	0.0172	0.018		97	98	70-130	1.49	30

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	7/3/14	**BatchID:**	92358
Date Analyzed:	7/3/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92358 1407098-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	17.2	0.50	20	-	85.8	70-130
Benzene	ND	19.4	0.50	20	-	97	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	62.9	2.0	80	-	78.7	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	19.9	0.50	20	-	99.5	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	16.2	0.50	20	-	80.8	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	16.8	0.50	20	-	83.9	70-130
1,1-Dichloroethene	ND	17.9	0.50	20	-	89.5	70-130
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	7/3/14	**BatchID:**	92358
Date Analyzed:	7/3/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92358 1407098-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	17.0	0.50	20	-	85.2	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	17.5	0.50	20	-	87.6	70-130
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	17.2	0.50	20	-	86	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	20.1	0.50	20	-	101	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	20.4	0.50	20	-	102	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	22.9	40.8		45	92	91	70-130
Toluene-d8	22.8	41.7		45	91	93	70-130
4-BFB	2.09	4.16		4.5	84	93	70-130

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	7/3/14	**BatchID:**	92358
Date Analyzed:	7/3/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92358 1407098-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	22.8	21.8	20	ND	114	109	70-130	4.05	20
Benzene	22.3	21.9	20	ND	112	109	70-130	2.15	20
t-Butyl alcohol (TBA)	107	103	80	ND	133,F1	129	70-130	3.25	20
Chlorobenzene	23.2	22.2	20	ND	116	111	70-130	4.04	20
1,2-Dibromoethane (EDB)	20.8	20.4	20	ND	104	102	70-130	1.87	20
1,2-Dichloroethane (1,2-DCA)	20.7	20.4	20	ND	104	102	70-130	1.64	20
1,1-Dichloroethene	19.9	19.4	20	ND	99.6	96.8	70-130	2.82	20
Diisopropyl ether (DIPE)	20.9	20.0	20	ND	105	100	70-130	4.18	20
Ethyl tert-butyl ether (ETBE)	22.6	21.8	20	ND	113	109	70-130	3.49	20
Methyl-t-butyl ether (MTBE)	22.7	22.4	20	ND	113	112	70-130	1.40	20
Toluene	22.7	22.1	20	ND	114	111	70-130	2.57	20
Trichloroethene	23.5	22.7	20	ND	117	113	70-130	3.41	20
Surrogate Recovery									
Dibromofluoromethane	43.6	43.2	45		97	96	70-130	0.864	20
Toluene-d8	40.5	40.1	45		90	89	70-130	1.09	20
4-BFB	4.11	4.27	4.5		91	95	70-130	3.73	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/26/14	**BatchID:**	92083
Date Analyzed:	6/26/14	**Extraction Method:**	SW3550B
Instrument:	GC35	**Analytical Method:**	SW8270C-SIM
Matrix:	Soil	**Unit:**	mg/kg
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92083 1406907-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.010	-	-	-	-
Acenaphthylene	ND	-	0.010	-	-	-	-
Anthracene	ND	-	0.010	-	-	-	-
Benzo (a) anthracene	ND	-	0.010	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.010	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.010	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.010	-	-	-	-
Benzo (a) pyrene	ND	0.106	0.010	0.20	-	52.9	30-130
Chrysene	ND	0.156	0.010	0.20	-	78	30-130
Dibenzo (a,h) anthracene	ND	-	0.010	-	-	-	-
Fluoranthene	ND	-	0.010	-	-	-	-
Fluorene	ND	-	0.010	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.010	-	-	-	-
1-Methylnaphthalene	ND	0.165	0.010	0.20	-	82.4	30-130
2-Methylnaphthalene	ND	0.140	0.010	0.20	-	70.2	30-130
Naphthalene	ND	-	0.010	-	-	-	-
Phenanthrene	ND	0.159	0.010	0.20	-	79.3	30-130
Pyrene	ND	0.140	0.010	0.20	-	69.9	30-130
Surrogate Recovery							
1-Fluoronapthalene	0.631	0.614		0.50	126	123	30-130
2-Fluorobiphenyl	0.643	0.592		0.50	129	118	30-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzo (a) pyrene	0.157	0.163	0.20	ND	78.7	81.4	30-130	3.43	30
Chrysene	0.183	0.182	0.20	ND	91.5	90.8	30-130	0.856	30
1-Methylnaphthalene	0.198	0.196	0.20	ND	98.9	97.9	30-130	1.05	30
2-Methylnaphthalene	0.168	0.167	0.20	ND	84	83.7	30-130	0.351	30
Phenanthrene	0.182	0.182	0.20	ND	91.1	90.9	30-130	0.209	30
Pyrene	0.193	0.192	0.20	ND	96.7	95.8	30-130	0.931	30
Surrogate Recovery									
1-Fluoronapthalene	0.695	0.698	0.50		139,F3	140,F3	30-130	0.431	30
2-Fluorobiphenyl	0.648	0.648	0.50		130	130	30-130	0	30

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/27/14	**BatchID:**	92145
Date Analyzed:	6/27/14	**Extraction Method:**	SW3510C
Instrument:	GC35	**Analytical Method:**	SW8270C-SIM
Matrix:	Water	**Unit:**	µg/L
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92145

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.50	-	-	-	-
Acenaphthylene	ND	-	0.50	-	-	-	-
Anthracene	ND	-	0.50	-	-	-	-
Benzo (a) anthracene	ND	-	0.50	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.50	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.50	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.50	-	-	-	-
Benzo (a) pyrene	ND	4.40	0.50	10	-	44	30-130
Chrysene	ND	5.96	0.50	10	-	59.6	30-130
Dibenzo (a,h) anthracene	ND	-	0.50	-	-	-	-
Fluoranthene	ND	-	0.50	-	-	-	-
Fluorene	ND	-	0.50	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.50	-	-	-	-
1-Methylnaphthalene	ND	6.35	0.50	10	-	63.5	30-130
2-Methylnaphthalene	ND	5.60	0.50	10	-	56	30-130
Naphthalene	ND	-	0.50	-	-	-	-
Phenanthrene	ND	6.08	0.50	10	-	60.8	30-130
Pyrene	ND	5.88	0.50	10	-	58.8	30-130
Surrogate Recovery							
1-Fluoronapthalene	20.0	21.5		25	80	86	30-130
2-Fluorobiphenyl	18.6	19.8		25	74	79	30-130

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/24/14	**BatchID:**	91983
Date Analyzed:	6/24/14	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-91983 1406829-001AMS/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	0.552	0.40	0.60	-	92	70-130
MTBE	ND	0.0929	0.050	0.10	-	92.9	70-130
Benzene	ND	0.106	0.0050	0.10	-	107	70-130
Toluene	ND	0.107	0.0050	0.10	-	107	70-130
Ethylbenzene	ND	0.107	0.0050	0.10	-	107	70-130
Xylenes	ND	0.335	0.0050	0.30	-	112	70-130
Surrogate Recovery							
2-Fluorotoluene	0.108	0.110		0.10	108	109	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.564	0.568	0.60	ND	93.9	94.6	70-130	0.719	20
MTBE	0.0871	0.0929	0.10	ND	87.1	92.9	70-130	6.49	20
Benzene	0.101	0.109	0.10	ND	101	109	70-130	7.38	20
Toluene	0.103	0.111	0.10	ND	103	111	70-130	8.08	20
Ethylbenzene	0.103	0.110	0.10	ND	103	110	70-130	6.53	20
Xylenes	0.325	0.345	0.30	ND	108	115	70-130	6.19	20
Surrogate Recovery									
2-Fluorotoluene	0.100	0.109	0.10		100	109	70-130	8.21	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/30/14	**BatchID:**	92222
Date Analyzed:	7/1/14	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92222 1406B25-001AMS/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	0.572	0.40	0.60	-	95.3	70-130
MTBE	ND	0.0855	0.050	0.10	-	85.5	70-130
Benzene	ND	0.108	0.0050	0.10	-	108	70-130
Toluene	ND	0.109	0.0050	0.10	-	109	70-130
Ethylbenzene	ND	0.109	0.0050	0.10	-	109	70-130
Xylenes	ND	0.344	0.0050	0.30	-	115	70-130
Surrogate Recovery							
2-Fluorotoluene	0.112	0.110		0.10	112	110	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.494	0.509	0.60	ND	82.3	84.9	70-130	3.11	20
MTBE	0.0854	0.0851	0.10	ND	85.4	85.1	70-130	0.341	20
Benzene	0.0976	0.105	0.10	ND	97.6	105	70-130	7.43	20
Toluene	0.0990	0.106	0.10	ND	99	106	70-130	6.92	20
Ethylbenzene	0.0989	0.105	0.10	ND	98.9	105	70-130	6.18	20
Xylenes	0.316	0.331	0.30	ND	105	110	70-130	4.47	20
Surrogate Recovery									
2-Fluorotoluene	0.0965	0.106	0.10		96	106	70-130	9.26	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/27/14	**BatchID:**	92124
Date Analyzed:	6/26/14	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92124 1406978-002AMS/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	61.6	40	60	-	103	70-130
MTBE	ND	11.5	5.0	10	-	115	70-130
Benzene	ND	10.2	0.50	10	-	103	70-130
Toluene	ND	10.3	0.50	10	-	103	70-130
Ethylbenzene	ND	10.3	0.50	10	-	103	70-130
Xylenes	ND	31.4	0.50	30	-	105	70-130
Surrogate Recovery							
aaa-TFT_2	9.72	9.44		10	97	94	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	58.4	56.8	60	ND	97.3	94.7	70-130	2.70	20
MTBE	9.67	9.50	10	ND	96.7	95	70-130	1.84	20
Benzene	10.3	9.90	10	ND	103	99	70-130	4.30	20
Toluene	10.4	9.92	10	ND	104	99.2	70-130	4.47	20
Ethylbenzene	10.4	9.97	10	ND	104	99.7	70-130	4.41	20
Xylenes	31.6	30.2	30	ND	105	101	70-130	4.67	20
Surrogate Recovery									
aaa-TFT_2	9.94	9.91	10		99	99	70-130	0	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/24/14	**BatchID:**	91998
Date Analyzed:	6/25/14	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-91998 1406875-001AMS/MSD

QC Summary Report for SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	51.3	0.25	50	-	103	75-125
Chromium	ND	53.6	0.50	50	-	107	75-125
Lead	ND	52.2	0.50	50	-	104	75-125
Nickel	ND	53.0	0.50	50	-	106	75-125
Zinc	ND	525	5.0	500	-	105	75-125
Surrogate Recovery							
Tb 350.917	489	488		500	98	98	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	52.7	52.0	50	ND	105	104	75-125	1.43	20
Chromium	74.9	85.7	50	28.35	93.2	115	75-125	13.4	20
Lead	59.2	60.6	50	5.676	107	110	75-125	2.34	20
Nickel	96.8	109	50	46.87	99.8	124	75-125	11.8	20
Zinc	565	556	500	31.84	107	105	75-125	1.57	20
Surrogate Recovery									
Tb 350.917	503	502	500		101	100	70-130	0.139	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/24/14	**BatchID:**	92010
Date Analyzed:	6/25/14	**Extraction Method:**	E200.8
Instrument:	ICP-MS2	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92010 1406907-003FMS/MSD

QC Summary Report for E200.8

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	46.8	0.25	50	-	93.6	85-115
Chromium	ND	49.1	0.50	50	-	98.2	85-115
Lead	ND	47.8	0.50	50	-	95.6	85-115
Nickel	ND	48.6	0.50	50	-	97.2	85-115
Zinc	ND	490	5.0	500	-	98	85-115
Surrogate Recovery							
Tb 350.917	694	686		750	93	91	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	NR	NR	0	2.9	NR	NR	-	NR	
Chromium	NR	NR	0	140	NR	NR	-	NR	
Lead	NR	NR	0	79	NR	NR	-	NR	
Nickel	NR	NR	0	200	NR	NR	-	NR	
Zinc	NR	NR	0	270	NR	NR	-	NR	
Surrogate Recovery									
Tb 350.917	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/24/14	**BatchID:**	91975
Date Analyzed:	6/25/14	**Extraction Method:**	SW3550B
Instrument:	GC11A, GC11B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-91975 1406869-002AMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	43.7	1.0	40	-	109	70-130
Surrogate Recovery							
C9	25.2	27.9		25	101	112	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)	41.6	42.6	40	2.096	98.7	101	70-130	2.51	30
Surrogate Recovery									
C9	24.9	25.4	25		100	102	70-130	1.88	30

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/24/14	**BatchID:**	92011
Date Analyzed:	6/26/14	**Extraction Method:**	SW3550B
Instrument:	GC6B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92011 1406907-002AMS/MSD

QC Summary Report for SW8015B

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
Surrogate Recovery							
C9	25.8	24.8		25	103	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)	NR	NR	0	1400	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406907
Date Prepared:	6/24/14	**BatchID:**	92009
Date Analyzed:	6/26/14	**Extraction Method:**	SW3510C
Instrument:	GC6A	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	Underground Facilities Removal, Owens Brockway	**Sample ID:**	MB/LCS-92009

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	965	50	1000	-	96.5	70-130
Surrogate Recovery							
C9	579	550		625	93	88	70-130

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1406907 **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: Underground Facilities Removal, Owens Brockway

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

Requested TAT: 5 days

Date Received: 06/24/2014
Date Printed: 06/24/2014

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
1406907-001	EXC SS2	Soil	6/24/2014	☐	A		A		A		A		A		A	
1406907-002	EXC SS1	Soil	6/24/2014	☐	A		A		A		A		A		A	
1406907-003	EXC GW1	Water	6/24/2014	☐		D		E		C		A		F		B

Test Legend:

1	8082A_PCB_S	2	8082A_PCB_W	3	8270D-PNA_S	4	8270D-PNA_W	5	GAS8260_S
6	GAS8260_W	7	G-MBTEX_S	8	G-MBTEX_W	9	LUFTMS_S	10	LUFTMS_W
11	TPH(DMO)_S	12	TPH(DMO)_W						

The following SampIDs: 001A, 002A, 003C contain testgroup.

Prepared by: Ana 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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WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL
Project: Underground Facilities Removal, Owens Brockway
Comments:

QC Level: LEVEL 2
Client Contact: Christina Kennedy
Contact's Email: ckennedy@geologist.com

Work Order: 1406907
Date Received: 6/24/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1406907-001A	EXC SS2	Soil	SW8015B (Diesel & Motor Oil)	2	Big Brass Tube	☐	6/24/2014	5 days		☐	
			SW6020 (LUFT) <Cadmium, Chromium, Lead, Nickel, Zinc>			☐		5 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		5 days		☐	
			SW8270C (PAHs/PNAs)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
1406907-002A	EXC SS1	Soil	SW8015B (Diesel & Motor Oil)	2	Big Brass Tube	☐	6/24/2014	5 days		☐	
			SW6020 (LUFT) <Cadmium, Chromium, Lead, Nickel, Zinc>			☐		5 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		5 days		☐	
			TPH(g) & 8260 (Basic List) by P&T GCMS			☐		5 days		☐	
			SW8270C (PAHs/PNAs)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
1406907-003A	EXC GW1	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	☐	6/24/2014	5 days	1%+	☐	
1406907-003B	EXC GW1	Water	SW8015B (Diesel & Motor Oil)	2	VOA w/ HCl	☐	6/24/2014	5 days	1%+	☐	
1406907-003C	EXC GW1	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	☐	6/24/2014	5 days	1%+	☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

Big Brass Tube =
1LA = 1L Amber Glass Jar, Unpreserved
250mL HDPE w/ HNO3 = 250mL HDPE Bottle w/ HNO3
aVOA = 43mL Amber VOA, Unpreserved
VOA w/ HCl = 43mL VOA w/ HCl

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WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL
Project: Underground Facilities Removal, Owens Brockway
Comments:

QC Level: LEVEL 2
Client Contact: Christina Kennedy
Contact's Email: ckennedy@geologist.com

Work Order: 1406907
Date Received: 6/24/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1406907-003D	EXC GW1	Water	SW8082 (PCBs Only)	2	aVOA	☐	6/24/2014	5 days	1%+	☐	
1406907-003E	EXC GW1	Water	SW8270C (PAHs/PNAs)	1	1LA	☐	6/24/2014	5 days	1%+	☐	
1406907-003F	EXC GW1	Water	E200.8 (LUFT)	1	250mL HDPE w/ HNO3	☐	6/24/2014	5 days	1%+	☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

Big Brass Tube =
1LA = 1L Amber Glass Jar, Unpreserved
250mL HDPE w/ HNO3 = 250mL HDPE Bottle w/ HNO3
aVOA = 43mL Amber VOA, Unpreserved
VOA w/ HCl = 43mL VOA w/ HCl

1406107

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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: Chris Kennedy **Bill To:** Chris Kennedy
Company: CKG Environmental
E-Mail: ckennedy@geologist.com
Tele: (707) 363-5740 **Fax:** ( )
Project #: **Project Name:** Underground Facilities Removal
Project Location: Owens-Brockway, Oakland
Sampler Signature:

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
EXC SS2				2	X				X						
EXC SS1				1					X						
EXC GW1					X				X						

Analysis Request

BTEX/ MTBE & TPH as Gas (8021/ 8015)	TPH as Diesel (8015) + Motor Oil	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs) 16 Priority	EPA 8270 SIM / 8310 (PAHs / PNAs) Pollutants	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020) Total Pb	Filter sample for DISSOLVED metals analysis
X	X				X			X	X		X		X	X	
X	X				X			X	X		X		X	X	
X	X				X			X	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.

Relinquished By:	Date:	Time:	Received By:
Yousuf Kaleem	6/24	1755	
Relinquished By:	Date:	Time:	Received By:
	6/24/14	1815	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 4.0
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

COMMENTS:
email results to:
ckennedy@geologist.com
jbensch@sierra-west.net

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Sample Receipt Checklist

Client Name: **CKG Environmental** Date and Time Received: **6/24/2014 7:30:37 PM**

Project Name: **Underground Facilities Removal, Owens Brockway** LogIn Reviewed by: Ana Venegas

WorkOrder №: **1406907** Matrix: Soil/Water Carrier: Rob Pringle (MAI Courier)

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 ☐	
Container/Temp Blank temperature	Cooler Temp: 4.6°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: pH<2; 522: pH<4)?	Yes ☐	No ☑	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

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

Comments: water had to have the pH adjusted for metals

Appendix 6
Excavation E Laboratory Report

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Analytical Report

WorkOrder: 1406632

Report Created for: CKG Environmental
P.O. Box 246
St. Helena, CA 94574

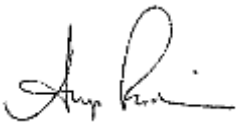
Project Contact: Christina Kennedy
Project P.O.:
Project Name: Underground facilities Removal

Project Received: 06/17/2014

Analytical Report reviewed & approved for release on 06/24/2014 by:

Question about your data?

Click here to email McCampbell



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.

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NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

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Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Underground facilities Removal
WorkOrder: 1406632

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
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
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
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
TEQ	Toxicity Equivalence

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
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
e7	oil range compounds are significant
h4	sulfuric acid permanganate (EPA 3665) cleanup

Quality Control Qualifiers

F3	the surrogate standard recovery is outside of acceptance limits.

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Project:	Underground facilities Removal	**Extraction Method:**	SW3550B
Date Received:	6/17/14 18:27	**Analytical Method:**	SW8082
Date Prepared:	6/17/14	**Unit:**	mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE-SS1	**1406632-001A**	**Soil**	**06/12/2014 09:30**	**GC5A**	**91660**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.50	10	06/20/2014 17:31
Aroclor1221	ND	0.50	10	06/20/2014 17:31
Aroclor1232	ND	0.50	10	06/20/2014 17:31
Aroclor1242	ND	0.50	10	06/20/2014 17:31
Aroclor1248	ND	0.50	10	06/20/2014 17:31
Aroclor1254	ND	0.50	10	06/20/2014 17:31
Aroclor1260	ND	0.50	10	06/20/2014 17:31
PCBs, total	ND	0.50	10	06/20/2014 17:31

Surrogates	REC (%)	Limits	Analytical Comments: h4	
Decachlorobiphenyl	76	70-130		06/20/2014 17:31

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Project:	Underground facilities Removal	**Extraction Method:**	SW5030B
Date Received:	6/17/14 18:27	**Analytical Method:**	SW8260B
Date Prepared:	6/17/14	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE-SS1	**1406632-001A**	**Soil**	**06/12/2014 09:30**	**GC10**	**91713**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	5.0	50	06/19/2014 17:04
tert-Amyl methyl ether (TAME)	ND	0.25	50	06/19/2014 17:04
Benzene	ND	0.25	50	06/19/2014 17:04
Bromobenzene	ND	0.25	50	06/19/2014 17:04
Bromochloromethane	ND	0.25	50	06/19/2014 17:04
Bromodichloromethane	ND	0.25	50	06/19/2014 17:04
Bromoform	ND	0.25	50	06/19/2014 17:04
Bromomethane	ND	0.25	50	06/19/2014 17:04
2-Butanone (MEK)	ND	1.0	50	06/19/2014 17:04
t-Butyl alcohol (TBA)	ND	2.5	50	06/19/2014 17:04
n-Butyl benzene	**0.27**	0.25	50	06/19/2014 17:04
sec-Butyl benzene	**0.50**	0.25	50	06/19/2014 17:04
tert-Butyl benzene	ND	0.25	50	06/19/2014 17:04
Carbon Disulfide	ND	0.25	50	06/19/2014 17:04
Carbon Tetrachloride	ND	0.25	50	06/19/2014 17:04
Chlorobenzene	ND	0.25	50	06/19/2014 17:04
Chloroethane	ND	0.25	50	06/19/2014 17:04
Chloroform	ND	0.25	50	06/19/2014 17:04
Chloromethane	ND	0.25	50	06/19/2014 17:04
2-Chlorotoluene	ND	0.25	50	06/19/2014 17:04
4-Chlorotoluene	ND	0.25	50	06/19/2014 17:04
Dibromochloromethane	ND	0.25	50	06/19/2014 17:04
1,2-Dibromo-3-chloropropane	ND	0.20	50	06/19/2014 17:04
1,2-Dibromoethane (EDB)	ND	0.20	50	06/19/2014 17:04
Dibromomethane	ND	0.25	50	06/19/2014 17:04
1,2-Dichlorobenzene	ND	0.25	50	06/19/2014 17:04
1,3-Dichlorobenzene	ND	0.25	50	06/19/2014 17:04
1,4-Dichlorobenzene	ND	0.25	50	06/19/2014 17:04
Dichlorodifluoromethane	ND	0.25	50	06/19/2014 17:04
1,1-Dichloroethane	ND	0.25	50	06/19/2014 17:04
1,2-Dichloroethane (1,2-DCA)	ND	0.20	50	06/19/2014 17:04
1,1-Dichloroethene	ND	0.25	50	06/19/2014 17:04
cis-1,2-Dichloroethene	ND	0.25	50	06/19/2014 17:04
trans-1,2-Dichloroethene	ND	0.25	50	06/19/2014 17:04
1,2-Dichloropropane	ND	0.25	50	06/19/2014 17:04
1,3-Dichloropropane	ND	0.25	50	06/19/2014 17:04
2,2-Dichloropropane	ND	0.25	50	06/19/2014 17:04
1,1-Dichloropropene	ND	0.25	50	06/19/2014 17:04

(Cont.)

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Project:	Underground facilities Removal	**Extraction Method:**	SW5030B
Date Received:	6/17/14 18:27	**Analytical Method:**	SW8260B
Date Prepared:	6/17/14	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE-SS1	**1406632-001A**	**Soil**	**06/12/2014 09:30**	**GC10**	**91713**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.25	50	06/19/2014 17:04
trans-1,3-Dichloropropene	ND	0.25	50	06/19/2014 17:04
Diisopropyl ether (DIPE)	ND	0.25	50	06/19/2014 17:04
Ethylbenzene	ND	0.25	50	06/19/2014 17:04
Ethyl tert-butyl ether (ETBE)	ND	0.25	50	06/19/2014 17:04
Freon 113	ND	5.0	50	06/19/2014 17:04
Hexachlorobutadiene	ND	0.25	50	06/19/2014 17:04
Hexachloroethane	ND	0.25	50	06/19/2014 17:04
2-Hexanone	ND	0.25	50	06/19/2014 17:04
Isopropylbenzene	ND	0.25	50	06/19/2014 17:04
4-Isopropyl toluene	ND	0.25	50	06/19/2014 17:04
Methyl-t-butyl ether (MTBE)	ND	0.25	50	06/19/2014 17:04
Methylene chloride	ND	0.25	50	06/19/2014 17:04
4-Methyl-2-pentanone (MIBK)	ND	0.25	50	06/19/2014 17:04
Naphthalene	ND	0.25	50	06/19/2014 17:04
n-Propyl benzene	ND	0.25	50	06/19/2014 17:04
Styrene	ND	0.25	50	06/19/2014 17:04
1,1,1,2-Tetrachloroethane	ND	0.25	50	06/19/2014 17:04
1,1,2,2-Tetrachloroethane	ND	0.25	50	06/19/2014 17:04
Tetrachloroethene	ND	0.25	50	06/19/2014 17:04
Toluene	ND	0.25	50	06/19/2014 17:04
1,2,3-Trichlorobenzene	ND	0.25	50	06/19/2014 17:04
1,2,4-Trichlorobenzene	ND	0.25	50	06/19/2014 17:04
1,1,1-Trichloroethane	ND	0.25	50	06/19/2014 17:04
1,1,2-Trichloroethane	ND	0.25	50	06/19/2014 17:04
Trichloroethene	ND	0.25	50	06/19/2014 17:04
Trichlorofluoromethane	ND	0.25	50	06/19/2014 17:04
1,2,3-Trichloropropane	ND	0.25	50	06/19/2014 17:04
1,2,4-Trimethylbenzene	ND	0.25	50	06/19/2014 17:04
1,3,5-Trimethylbenzene	ND	0.25	50	06/19/2014 17:04
Vinyl Chloride	ND	0.25	50	06/19/2014 17:04
Xylenes, Total	ND	0.25	50	06/19/2014 17:04

Surrogates	REC (%)	Limits	
Dibromofluoromethane	103	70-130	06/19/2014 17:04
Toluene-d8	96	70-130	06/19/2014 17:04
4-BFB	115	70-130	06/19/2014 17:04

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Project:	Underground facilities Removal	**Extraction Method:**	SW3550B
Date Received:	6/17/14 18:27	**Analytical Method:**	SW8270C-SIM
Date Prepared:	6/18/14	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE-SS1	**1406632-001A**	**Soil**	**06/12/2014 09:30**	**GC35**	**91782**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	**1.3**	1.0	100	06/23/2014 16:20
Acenaphthylene	ND	1.0	100	06/23/2014 16:20
Anthracene	ND	1.0	100	06/23/2014 16:20
Benzo (a) anthracene	**1.1**	1.0	100	06/23/2014 16:20
Benzo (b) fluoranthene	ND	1.0	100	06/23/2014 16:20
Benzo (k) fluoranthene	ND	1.0	100	06/23/2014 16:20
Benzo (g,h,i) perylene	ND	1.0	100	06/23/2014 16:20
Benzo (a) pyrene	ND	1.0	100	06/23/2014 16:20
Chrysene	ND	1.0	100	06/23/2014 16:20
Dibenzo (a,h) anthracene	ND	1.0	100	06/23/2014 16:20
Fluoranthene	ND	1.0	100	06/23/2014 16:20
Fluorene	**2.5**	1.0	100	06/23/2014 16:20
Indeno (1,2,3-cd) pyrene	ND	1.0	100	06/23/2014 16:20
1-Methylnaphthalene	**2.7**	1.0	100	06/23/2014 16:20
2-Methylnaphthalene	ND	1.0	100	06/23/2014 16:20
Naphthalene	ND	1.0	100	06/23/2014 16:20
Phenanthrene	**3.3**	1.0	100	06/23/2014 16:20
Pyrene	ND	1.0	100	06/23/2014 16:20

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: c1
1-Fluoronapthalene	551	S	30-130	06/23/2014 16:20
2-Fluorobiphenyl	246	S	30-130	06/23/2014 16:20

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Project:	Underground facilities Removal	**Extraction Method:**	SW5030B
Date Received:	6/17/14 18:27	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	6/17/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE-SS1	**1406632-001A**	**Soil**	**06/12/2014 09:30**	**GC19**	**91686**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**750**	20	20	06/19/2014 14:04
MTBE	**---**	1.0	20	06/19/2014 14:04
Benzene	**---**	0.10	20	06/19/2014 14:04
Toluene	**---**	0.10	20	06/19/2014 14:04
Ethylbenzene	**---**	0.10	20	06/19/2014 14:04
Xylenes	**---**	0.10	20	06/19/2014 14:04

Surrogates	REC (%)	Limits	Analytical Comments: d7,d9	
2-Fluorotoluene	83	70-130		06/19/2014 14:04

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Project:	Underground facilities Removal	**Extraction Method:**	SW3050B
Date Received:	6/17/14 18:27	**Analytical Method:**	SW6020
Date Prepared:	6/17/14	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE-SS1	**1406632-001A**	**Soil/TOTAL**	**06/12/2014 09:30**	**ICP-MS1**	**91687**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	06/19/2014 01:09
Chromium	**140**	5.0	10	06/19/2014 22:30
Lead	**3.6**	0.50	1	06/19/2014 01:09
Nickel	**220**	5.0	10	06/19/2014 22:30
Zinc	**38**	5.0	1	06/19/2014 01:09

Surrogates	REC (%)	Limits	
Tb 350.917	122	70-130	06/19/2014 01:09

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Project:	Underground facilities Removal	**Extraction Method:**	SW3550B
Date Received:	6/17/14 18:27	**Analytical Method:**	SW8015B
Date Prepared:	6/17/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE-SS1	**1406632-001A**	**Soil**	**06/12/2014 09:30**	**GC11A**	**91712**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**11,000**	1000	1000	06/23/2014 20:10
TPH-Motor Oil (C18-C36)	**12,000**	5000	1000	06/23/2014 20:10

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2
C9	115	70-130	06/23/2014 20:10

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Date Prepared:	6/16/14	**BatchID:**	91660
Date Analyzed:	6/16/14	**Extraction Method:**	SW3550B
Instrument:	GC5A	**Analytical Method:**	SW8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	Underground facilities Removal	**Sample ID:**	MB/LCS-91660 1406580-001AMS/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	0.171	0.050	0.15	-	114	70-130
PCBs, total	ND	-	0.050	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	0.0545	0.0558		0.050	109	112	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	0.193	0.192	0.15	ND	128	128	70-130	0	30
Surrogate Recovery									
Decachlorobiphenyl	0.0599	0.0573	0.050		120	115	70-130	4.37	30

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Date Prepared:	6/17/14	**BatchID:**	91713
Date Analyzed:	6/19/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground facilities Removal	**Sample ID:**	MB/LCS-91713 1406632-001AMS/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	0.0428	0.0050	0.050	-	85.5	70-130
Benzene	ND	0.0483	0.0050	0.050	-	96.5	70-130
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	0.179	0.050	0.20	-	89.4	70-130
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	0.0474	0.0050	0.050	-	94.7	70-130
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	0.0464	0.0040	0.050	-	92.7	70-130
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	0.0446	0.0040	0.050	-	89.2	70-130
1,1-Dichloroethene	ND	0.0383	0.0050	0.050	-	76.6	70-130
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	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Date Prepared:	6/17/14	**BatchID:**	91713
Date Analyzed:	6/19/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground facilities Removal	**Sample ID:**	MB/LCS-91713 1406632-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0460	0.0050	0.050	-	92	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0456	0.0050	0.050	-	91.2	70-130
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	0.0448	0.0050	0.050	-	89.6	70-130
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	0.0497	0.0050	0.050	-	99.4	70-130
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	0.0495	0.0050	0.050	-	99.1	70-130
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	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.122	0.185		0.18	98	106	70-130
Toluene-d8	0.132	0.177		0.18	106	101	70-130
4-BFB	0.0134	0.0178		0.018	107	102	70-130

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Date Prepared:	6/17/14	**BatchID:**	91713
Date Analyzed:	6/19/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground facilities Removal	**Sample ID:**	MB/LCS-91713 1406632-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	NR	NR	0	ND<0.25	NR	NR	-	NR	
Benzene	NR	NR	0	ND<0.25	NR	NR	-	NR	
t-Butyl alcohol (TBA)	NR	NR	0	ND<2.5	NR	NR	-	NR	
Chlorobenzene	NR	NR	0	ND<0.25	NR	NR	-	NR	
1,2-Dibromoethane (EDB)	NR	NR	0	ND<0.2	NR	NR	-	NR	
1,2-Dichloroethane (1,2-DCA)	NR	NR	0	ND<0.2	NR	NR	-	NR	
1,1-Dichloroethene	NR	NR	0	ND<0.25	NR	NR	-	NR	
Diisopropyl ether (DIPE)	NR	NR	0	ND<0.25	NR	NR	-	NR	
Ethyl tert-butyl ether (ETBE)	NR	NR	0	ND<0.25	NR	NR	-	NR	
Methyl-t-butyl ether (MTBE)	NR	NR	0	ND<0.25	NR	NR	-	NR	
Toluene	NR	NR	0	ND<0.25	NR	NR	-	NR	
Trichloroethene	NR	NR	0	ND<0.25	NR	NR	-	NR	
Surrogate Recovery									
Dibromofluoromethane	NR	NR	0		NR	NR	-	NR	
Toluene-d8	NR	NR	0		NR	NR	-	NR	
4-BFB	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Date Prepared:	6/18/14	**BatchID:**	91782
Date Analyzed:	6/19/14	**Extraction Method:**	SW3550B
Instrument:	GC35	**Analytical Method:**	SW8270C-SIM
Matrix:	Soil	**Unit:**	mg/kg
Project:	Underground facilities Removal	**Sample ID:**	MB/LCS-91782 1406662-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.010	-	-	-	-
Acenaphthylene	ND	-	0.010	-	-	-	-
Anthracene	ND	-	0.010	-	-	-	-
Benzo (a) anthracene	ND	-	0.010	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.010	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.010	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.010	-	-	-	-
Benzo (a) pyrene	ND	0.134	0.010	0.20	-	66.9	30-130
Chrysene	ND	0.173	0.010	0.20	-	86.7	30-130
Dibenzo (a,h) anthracene	ND	-	0.010	-	-	-	-
Fluoranthene	ND	-	0.010	-	-	-	-
Fluorene	ND	-	0.010	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.010	-	-	-	-
1-Methylnaphthalene	ND	0.179	0.010	0.20	-	89.6	30-130
2-Methylnaphthalene	ND	0.156	0.010	0.20	-	77.8	30-130
Naphthalene	ND	-	0.010	-	-	-	-
Phenanthrene	ND	0.173	0.010	0.20	-	86.6	30-130
Pyrene	ND	0.166	0.010	0.20	-	82.8	30-130
Surrogate Recovery							
1-Fluoronapthalene	0.648	0.650		0.50	130	130	30-130
2-Fluorobiphenyl	0.646	0.638		0.50	129	128	30-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzo (a) pyrene	0.271	0.274	0.20	0.01765	126	128	30-130	1.11	30
Chrysene	0.228	0.225	0.20	0.02770	100	98.6	30-130	1.46	30
1-Methylnaphthalene	0.221	0.222	0.20	ND	111	111	30-130	0	30
2-Methylnaphthalene	0.197	0.196	0.20	ND	98.4	98.2	30-130	0.186	30
Phenanthrene	0.254	0.248	0.20	0.06491	94.4	91.7	30-130	2.21	30
Pyrene	0.322	0.322	0.20	0.09370	114	114	30-130	0	30
Surrogate Recovery									
1-Fluoronapthalene	0.725	0.715	0.50		145,F3	143,F3	30-130	1.34	30
2-Fluorobiphenyl	0.696	0.679	0.50		139,F3	136,F3	30-130	2.36	30

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Date Prepared:	6/17/14	**BatchID:**	91686
Date Analyzed:	6/17/14	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground facilities Removal	**Sample ID:**	MB/LCS-91686 1406599-010AMS/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	0.578	0.40	0.60	-	96.3	70-130
MTBE	ND	0.0948	0.050	0.10	-	94.8	70-130
Benzene	ND	0.112	0.0050	0.10	-	112	70-130
Toluene	ND	0.114	0.0050	0.10	-	114	70-130
Ethylbenzene	ND	0.115	0.0050	0.10	-	115	70-130
Xylenes	ND	0.354	0.0050	0.30	-	118	70-130
Surrogate Recovery							
2-Fluorotoluene	0.108	0.114		0.10	108	114	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.568	0.602	0.60	ND	94.6	100	70-130	5.88	20
MTBE	0.0969	0.0927	0.10	ND	96.9	92.7	70-130	4.44	20
Benzene	0.0960	0.0952	0.10	ND	96	95.2	70-130	0.818	20
Toluene	0.0997	0.100	0.10	ND	99.7	100	70-130	0.283	20
Ethylbenzene	0.100	0.102	0.10	ND	100	102	70-130	1.57	20
Xylenes	0.315	0.319	0.30	ND	105	106	70-130	1.21	20
Surrogate Recovery									
2-Fluorotoluene	0.0989	0.100	0.10		99	100	70-130	1.11	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Date Prepared:	6/17/14	**BatchID:**	91687
Date Analyzed:	6/18/14	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground facilities Removal	**Sample ID:**	MB/LCS-91687 1406599-010AMS/MSD

QC Summary Report for SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	55.0	0.25	50	-	110	75-125
Chromium	ND	55.4	0.50	50	-	111	75-125
Lead	ND	54.9	0.50	50	-	110	75-125
Nickel	ND	54.9	0.50	50	-	110	75-125
Zinc	ND	555	5.0	500	-	111	75-125
Surrogate Recovery							
Tb 350.917	566	551		500	113	110	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	52.2	54.5	50	ND	104	109	75-125	4.37	20
Chromium	95.2	99.7	50	40.12	110	119	75-125	4.55	20
Lead	NR	NR	50	141.1	NR	NR	75-125	NR	20
Nickel	91.4	95.2	50	37.75	107	115	75-125	4.04	20
Zinc	597	637	500	202.3	79	87	75-125	6.48	20
Surrogate Recovery									
Tb 350.917	527	551	500		105	110	70-130	4.42	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406632
Date Prepared:	6/17/14	**BatchID:**	91712
Date Analyzed:	6/19/14	**Extraction Method:**	SW3550B
Instrument:	GC11A, GC2B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground facilities Removal	**Sample ID:**	MB/LCS-91712 1406632-001AMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	46.4	1.0	40	-	116	70-130
Surrogate Recovery							
C9	24.4	27.2		25	98	109	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	0	11000	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR	0		NR	NR	-	NR	

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1406632 **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: Underground facilities Removal

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

Requested TAT: 5 days

Date Received: **06/17/2014**
Date Printed: **06/18/2014**

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
1406632-001	EXE-SS1	Soil	6/12/2014 9:30	☐	A	A	A	A	A							

Test Legend:

1	8082A_PCB_S	2	8260B_S	3	8270D-PNA_S	4	G-MBTEX_S	5	LUFTMS_S
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by:

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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WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL
Project: Underground facilities Removal
Comments:

QC Level: LEVEL 2
Client Contact: Christina Kennedy
Contact's Email: ckennedy@geologist.com

Work Order: 1406632
Date Received: 6/17/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1406632-001A	EXE-SS1	Soil	Multi-Range TPH(g,d,mo)	2	Brass/Stainless Tube	☐	6/12/2014 9:30	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			SW8270C (PAHs/PNAs)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
Brass/Stainless Tube = Brass or Stainless Steel Tube

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CHAIN OF CUSTODY RECORD

1406632

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:** Christina Kennedy

Company: CKG Environmental

E-Mail: ckennedy@geologist.com

Tele: (707) 363-5740 **Fax:** ( )

Project #: **Project Name:** Underground Facilities Removal

Project Location: Owens-Brockway, Oakland **Purchase Order#**

Sampler Signature: Yousif Kaleem

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX & TPH as Gas (8021/ 8015)	TPH as Diesel (8015) + Motor Oil	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs) 16 priority Pollutants	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020) Total Pb	Filter sample for DISSOLVED metals analysis				
EXE-SS1		6/12/14	9:30						X							X	X				X			X	X		X		X	X					
EXE-SS1									X							X	X				X			X	X		X		X	X	Extra				

**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.

Relinquished By:	Date:	Time:	Received By:
Yousif Kaleem	6/17/14	1345	
Relinquished By:	Date:	Time:	Received By:
	6/17/14	1500	
Relinquished By:	Date:	Time:	Received By:
	6/17/14	1500	

ICE/t° 2.0

GOOD CONDITION_____

HEAD SPACE ABSENT_____

DECHLORINATED IN LAB_____

APPROPRIATE CONTAINERS_____

PRESERVED IN LAB_____

COMMENTS:

VOAS O&G METALS OTHER HAZARDOUS:

PRESERVATION_____ pH<2_____

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Sample Receipt Checklist

Client Name: **CKG Environmental**
Date and Time Received: **6/17/2014 6:27:23 PM**

Project Name: **Owens-Brockway, Oakland**
LogIn Reviewed by:

WorkOrder №: **1406632** Matrix: Soil
Carrier: Rob Pringle (MAI Courier)

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 ☐	
Container/Temp Blank temperature	Cooler Temp: 2°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: pH<2; 522: pH<4)?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

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

Comments:

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Analytical Report

WorkOrder: 1406666

Report Created for: CKG Environmental
P.O. Box 246
St. Helena, CA 94574

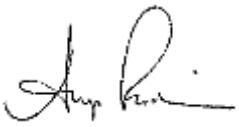
Project Contact: Christina Kennedy
Project P.O.:
Project Name: Underground Facilities Removal

Project Received: 06/18/2014

Analytical Report reviewed & approved for release on 06/24/2014 by:

Question about your data?

Click here to email McCampbell



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.

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Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Underground Facilities Removal
WorkOrder: 1406666

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
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
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
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
TEQ	Toxicity Equivalence

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
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
e7	oil range compounds are significant

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.
F3	the surrogate standard recovery is outside of acceptance limits.

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Project:	Underground Facilities Removal	**Extraction Method:**	SW3550B
Date Received:	6/18/14 16:08	**Analytical Method:**	SW8082
Date Prepared:	6/18/14	**Unit:**	mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE SS2	**1406666-001A**	**Soil**	**06/18/2014 09:00**	**GC5A**	**91770**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	06/22/2014 15:53
Aroclor1221	ND	0.050	1	06/22/2014 15:53
Aroclor1232	ND	0.050	1	06/22/2014 15:53
Aroclor1242	ND	0.050	1	06/22/2014 15:53
Aroclor1248	ND	0.050	1	06/22/2014 15:53
Aroclor1254	ND	0.050	1	06/22/2014 15:53
Aroclor1260	ND	0.050	1	06/22/2014 15:53
PCBs, total	ND	0.050	1	06/22/2014 15:53

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	112	70-130	06/22/2014 15:53

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Project:	Underground Facilities Removal	**Extraction Method:**	SW5030B
Date Received:	6/18/14 16:08	**Analytical Method:**	SW8260B
Date Prepared:	6/18/14	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE SS2	**1406666-001A**	**Soil**	**06/18/2014 09:00**	**GC10**	**91765**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	100	06/19/2014 17:47
tert-Amyl methyl ether (TAME)	ND	0.50	100	06/19/2014 17:47
Benzene	ND	0.50	100	06/19/2014 17:47
Bromobenzene	ND	0.50	100	06/19/2014 17:47
Bromochloromethane	ND	0.50	100	06/19/2014 17:47
Bromodichloromethane	ND	0.50	100	06/19/2014 17:47
Bromoform	ND	0.50	100	06/19/2014 17:47
Bromomethane	ND	0.50	100	06/19/2014 17:47
2-Butanone (MEK)	ND	2.0	100	06/19/2014 17:47
t-Butyl alcohol (TBA)	ND	5.0	100	06/19/2014 17:47
n-Butyl benzene	ND	0.50	100	06/19/2014 17:47
sec-Butyl benzene	**0.79**	0.50	100	06/19/2014 17:47
tert-Butyl benzene	ND	0.50	100	06/19/2014 17:47
Carbon Disulfide	ND	0.50	100	06/19/2014 17:47
Carbon Tetrachloride	ND	0.50	100	06/19/2014 17:47
Chlorobenzene	ND	0.50	100	06/19/2014 17:47
Chloroethane	ND	0.50	100	06/19/2014 17:47
Chloroform	ND	0.50	100	06/19/2014 17:47
Chloromethane	ND	0.50	100	06/19/2014 17:47
2-Chlorotoluene	ND	0.50	100	06/19/2014 17:47
4-Chlorotoluene	ND	0.50	100	06/19/2014 17:47
Dibromochloromethane	ND	0.50	100	06/19/2014 17:47
1,2-Dibromo-3-chloropropane	ND	0.40	100	06/19/2014 17:47
1,2-Dibromoethane (EDB)	ND	0.40	100	06/19/2014 17:47
Dibromomethane	ND	0.50	100	06/19/2014 17:47
1,2-Dichlorobenzene	ND	0.50	100	06/19/2014 17:47
1,3-Dichlorobenzene	ND	0.50	100	06/19/2014 17:47
1,4-Dichlorobenzene	ND	0.50	100	06/19/2014 17:47
Dichlorodifluoromethane	ND	0.50	100	06/19/2014 17:47
1,1-Dichloroethane	ND	0.50	100	06/19/2014 17:47
1,2-Dichloroethane (1,2-DCA)	ND	0.40	100	06/19/2014 17:47
1,1-Dichloroethene	ND	0.50	100	06/19/2014 17:47
cis-1,2-Dichloroethene	ND	0.50	100	06/19/2014 17:47
trans-1,2-Dichloroethene	ND	0.50	100	06/19/2014 17:47
1,2-Dichloropropane	ND	0.50	100	06/19/2014 17:47
1,3-Dichloropropane	ND	0.50	100	06/19/2014 17:47
2,2-Dichloropropane	ND	0.50	100	06/19/2014 17:47
1,1-Dichloropropene	ND	0.50	100	06/19/2014 17:47

(Cont.)

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Project:	Underground Facilities Removal	**Extraction Method:**	SW5030B
Date Received:	6/18/14 16:08	**Analytical Method:**	SW8260B
Date Prepared:	6/18/14	**Unit:**	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE SS2	**1406666-001A**	**Soil**	**06/18/2014 09:00**	**GC10**	**91765**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50	100	06/19/2014 17:47
trans-1,3-Dichloropropene	ND	0.50	100	06/19/2014 17:47
Diisopropyl ether (DIPE)	ND	0.50	100	06/19/2014 17:47
Ethylbenzene	ND	0.50	100	06/19/2014 17:47
Ethyl tert-butyl ether (ETBE)	ND	0.50	100	06/19/2014 17:47
Freon 113	ND	10	100	06/19/2014 17:47
Hexachlorobutadiene	ND	0.50	100	06/19/2014 17:47
Hexachloroethane	ND	0.50	100	06/19/2014 17:47
2-Hexanone	ND	0.50	100	06/19/2014 17:47
Isopropylbenzene	ND	0.50	100	06/19/2014 17:47
4-Isopropyl toluene	ND	0.50	100	06/19/2014 17:47
Methyl-t-butyl ether (MTBE)	ND	0.50	100	06/19/2014 17:47
Methylene chloride	ND	0.50	100	06/19/2014 17:47
4-Methyl-2-pentanone (MIBK)	ND	0.50	100	06/19/2014 17:47
Naphthalene	ND	0.50	100	06/19/2014 17:47
n-Propyl benzene	ND	0.50	100	06/19/2014 17:47
Styrene	ND	0.50	100	06/19/2014 17:47
1,1,1,2-Tetrachloroethane	ND	0.50	100	06/19/2014 17:47
1,1,2,2-Tetrachloroethane	ND	0.50	100	06/19/2014 17:47
Tetrachloroethene	ND	0.50	100	06/19/2014 17:47
Toluene	ND	0.50	100	06/19/2014 17:47
1,2,3-Trichlorobenzene	ND	0.50	100	06/19/2014 17:47
1,2,4-Trichlorobenzene	ND	0.50	100	06/19/2014 17:47
1,1,1-Trichloroethane	ND	0.50	100	06/19/2014 17:47
1,1,2-Trichloroethane	ND	0.50	100	06/19/2014 17:47
Trichloroethene	ND	0.50	100	06/19/2014 17:47
Trichlorofluoromethane	ND	0.50	100	06/19/2014 17:47
1,2,3-Trichloropropane	ND	0.50	100	06/19/2014 17:47
1,2,4-Trimethylbenzene	ND	0.50	100	06/19/2014 17:47
1,3,5-Trimethylbenzene	ND	0.50	100	06/19/2014 17:47
Vinyl Chloride	ND	0.50	100	06/19/2014 17:47
Xylenes, Total	ND	0.50	100	06/19/2014 17:47

Surrogates	REC (%)	Limits	
Dibromofluoromethane	104	70-130	06/19/2014 17:47
Toluene-d8	99	70-130	06/19/2014 17:47
4-BFB	120	70-130	06/19/2014 17:47

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Project:	Underground Facilities Removal	**Extraction Method:**	SW3550B
Date Received:	6/18/14 16:08	**Analytical Method:**	SW8270C-SIM
Date Prepared:	6/18/14	**Unit:**	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE SS2	**1406666-001A**	**Soil**	**06/18/2014 09:00**	**GC35**	**91782**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	2.0	200	06/20/2014 13:05
Acenaphthylene	ND	2.0	200	06/20/2014 13:05
Anthracene	ND	2.0	200	06/20/2014 13:05
Benzo (a) anthracene	ND	2.0	200	06/20/2014 13:05
Benzo (b) fluoranthene	ND	2.0	200	06/20/2014 13:05
Benzo (k) fluoranthene	ND	2.0	200	06/20/2014 13:05
Benzo (g,h,i) perylene	ND	2.0	200	06/20/2014 13:05
Benzo (a) pyrene	ND	2.0	200	06/20/2014 13:05
Chrysene	ND	2.0	200	06/20/2014 13:05
Dibenzo (a,h) anthracene	ND	2.0	200	06/20/2014 13:05
Fluoranthene	ND	2.0	200	06/20/2014 13:05
Fluorene	**2.2**	2.0	200	06/20/2014 13:05
Indeno (1,2,3-cd) pyrene	ND	2.0	200	06/20/2014 13:05
1-Methylnaphthalene	**2.6**	2.0	200	06/20/2014 13:05
2-Methylnaphthalene	ND	2.0	200	06/20/2014 13:05
Naphthalene	ND	2.0	200	06/20/2014 13:05
Phenanthrene	**3.6**	2.0	200	06/20/2014 13:05
Pyrene	ND	2.0	200	06/20/2014 13:05

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: c1
1-Fluoronapthalene	681	S	30-130	06/20/2014 13:05
2-Fluorobiphenyl	153	S	30-130	06/20/2014 13:05

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Project:	Underground Facilities Removal	**Extraction Method:**	SW5030B
Date Received:	6/18/14 16:08	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	6/18/14	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE SS2	**1406666-001A**	**Soil**	**06/18/2014 09:00**	**GC19**	**91722**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1200**	200	200	06/19/2014 18:30
MTBE	**---**	10	200	06/19/2014 18:30
Benzene	**---**	1.0	200	06/19/2014 18:30
Toluene	**---**	1.0	200	06/19/2014 18:30
Ethylbenzene	**---**	1.0	200	06/19/2014 18:30
Xylenes	**---**	1.0	200	06/19/2014 18:30

Surrogates	REC (%)	Limits	Analytical Comments: d7,d9	
aaa-TFT	88	70-130		06/19/2014 18:30

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Project:	Underground Facilities Removal	**Extraction Method:**	SW3050B
Date Received:	6/18/14 16:08	**Analytical Method:**	SW6020
Date Prepared:	6/18/14	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE SS2	**1406666-001A**	**Soil/TOTAL**	**06/18/2014 09:00**	**ICP-MS2**	**91762**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	06/20/2014 15:50
Chromium	**55**	0.50	1	06/20/2014 15:50
Lead	**5.1**	0.50	1	06/20/2014 15:50
Nickel	**110**	5.0	10	06/20/2014 21:45
Zinc	**40**	5.0	1	06/20/2014 15:50

Surrogates	REC (%)	Limits	
Tb 350.917	110	70-130	06/20/2014 15:50

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Project:	Underground Facilities Removal	**Extraction Method:**	SW3550B
Date Received:	6/18/14 16:08	**Analytical Method:**	SW8015B
Date Prepared:	6/18/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE SS2	**1406666-001A**	**Soil**	**06/18/2014 09:00**	**GC2A**	**91712**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**7500**	50	50	06/22/2014 04:20
TPH-Motor Oil (C18-C36)	**6800**	250	50	06/22/2014 04:20

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	94	70-130		06/22/2014 04:20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Date Prepared:	6/18/14	**BatchID:**	91770
Date Analyzed:	6/19/14	**Extraction Method:**	SW3550B
Instrument:	GC23	**Analytical Method:**	SW8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	Underground Facilities Removal	**Sample ID:**	MB/LCS-91770 1406665-002AMS/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	0.146	0.050	0.15	-	97	70-130
PCBs, total	ND	-	0.050	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	0.0452	0.0562		0.050	90	112	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	0.150	0.163	0.15	ND	99.7	109	70-130	8.64	30
Surrogate Recovery									
Decachlorobiphenyl	0.0621	0.0624	0.050		124	125	70-130	0.454	30

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Date Prepared:	6/18/14	**BatchID:**	91765
Date Analyzed:	6/23/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal	**Sample ID:**	MB/LCS-91765 1406650-019AMS/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	0.0446	0.0050	0.050	-	89.2	70-130
Benzene	ND	0.0486	0.0050	0.050	-	97.1	70-130
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	0.157	0.050	0.20	-	78.6	70-130
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	0.0469	0.0050	0.050	-	93.7	70-130
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	0.0476	0.0040	0.050	-	95.3	70-130
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	0.0443	0.0040	0.050	-	88.5	70-130
1,1-Dichloroethene	ND	0.0401	0.0050	0.050	-	80.2	70-130
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	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Date Prepared:	6/18/14	**BatchID:**	91765
Date Analyzed:	6/23/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal	**Sample ID:**	MB/LCS-91765 1406650-019AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0467	0.0050	0.050	-	93.5	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0471	0.0050	0.050	-	94.2	70-130
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	0.0465	0.0050	0.050	-	93	70-130
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	0.0512	0.0050	0.050	-	102	70-130
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	0.0502	0.0050	0.050	-	100	70-130
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	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.126	0.185		0.18	101	106	70-130
Toluene-d8	0.135	0.180		0.18	108	103	70-130
4-BFB	0.0150	0.0203		0.018	120	116	70-130

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Date Prepared:	6/18/14	**BatchID:**	91765
Date Analyzed:	6/23/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal	**Sample ID:**	MB/LCS-91765 1406650-019AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0701	0.0760	0.10	ND	70.1	76	70-130	8.06	30
Benzene	0.0794	0.0863	0.10	ND	79.4	86.3	70-130	8.31	30
t-Butyl alcohol (TBA)	0.284	0.316	0.40	ND	70.9	79	70-130	10.8	30
Chlorobenzene	0.0842	0.0909	0.10	ND	84.2	90.9	70-130	7.62	30
1,2-Dibromoethane (EDB)	0.0835	0.0909	0.10	ND	83.5	90.9	70-130	8.48	30
1,2-Dichloroethane (1,2-DCA)	0.0815	0.0869	0.10	ND	81.5	86.9	70-130	6.45	30
1,1-Dichloroethene	0.0695	0.0778	0.10	ND	69.5,F1	77.8	70-130	11.3	30
Diisopropyl ether (DIPE)	0.0756	0.0814	0.10	ND	75.6	81.3	70-130	7.38	30
Ethyl tert-butyl ether (ETBE)	0.0739	0.0800	0.10	ND	73.9	79.9	70-130	7.86	30
Methyl-t-butyl ether (MTBE)	0.0706	0.0768	0.10	ND	70.6	76.8	70-130	8.34	30
Toluene	0.0872	0.0966	0.10	ND	87.2	96.6	70-130	10.2	30
Trichloroethene	0.0794	0.0869	0.10	ND	79.4	86.9	70-130	9.05	30
Surrogate Recovery									
Dibromofluoromethane	0.332	0.337	0.35		95	96	70-130	1.54	30
Toluene-d8	0.336	0.348	0.35		96	100	70-130	3.52	30
4-BFB	0.0350	0.0364	0.035		100	104	70-130	4.04	30

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Date Prepared:	6/18/14	**BatchID:**	91782
Date Analyzed:	6/19/14	**Extraction Method:**	SW3550B
Instrument:	GC35	**Analytical Method:**	SW8270C-SIM
Matrix:	Soil	**Unit:**	mg/kg
Project:	Underground Facilities Removal	**Sample ID:**	MB/LCS-91782 1406662-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.010	-	-	-	-
Acenaphthylene	ND	-	0.010	-	-	-	-
Anthracene	ND	-	0.010	-	-	-	-
Benzo (a) anthracene	ND	-	0.010	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.010	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.010	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.010	-	-	-	-
Benzo (a) pyrene	ND	0.134	0.010	0.20	-	66.9	30-130
Chrysene	ND	0.173	0.010	0.20	-	86.7	30-130
Dibenzo (a,h) anthracene	ND	-	0.010	-	-	-	-
Fluoranthene	ND	-	0.010	-	-	-	-
Fluorene	ND	-	0.010	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.010	-	-	-	-
1-Methylnaphthalene	ND	0.179	0.010	0.20	-	89.6	30-130
2-Methylnaphthalene	ND	0.156	0.010	0.20	-	77.8	30-130
Naphthalene	ND	-	0.010	-	-	-	-
Phenanthrene	ND	0.173	0.010	0.20	-	86.6	30-130
Pyrene	ND	0.166	0.010	0.20	-	82.8	30-130
Surrogate Recovery							
1-Fluoronapthalene	0.648	0.650		0.50	130	130	30-130
2-Fluorobiphenyl	0.646	0.638		0.50	129	128	30-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzo (a) pyrene	0.271	0.274	0.20	0.01765	126	128	30-130	1.11	30
Chrysene	0.228	0.225	0.20	0.02770	100	98.6	30-130	1.46	30
1-Methylnaphthalene	0.221	0.222	0.20	ND	111	111	30-130	0	30
2-Methylnaphthalene	0.197	0.196	0.20	ND	98.4	98.2	30-130	0.186	30
Phenanthrene	0.254	0.248	0.20	0.06491	94.4	91.7	30-130	2.21	30
Pyrene	0.322	0.322	0.20	0.09370	114	114	30-130	0	30
Surrogate Recovery									
1-Fluoronapthalene	0.725	0.715	0.50		145,F3	143,F3	30-130	1.34	30
2-Fluorobiphenyl	0.696	0.679	0.50		139,F3	136,F3	30-130	2.36	30

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Date Prepared:	6/17/14	**BatchID:**	91722
Date Analyzed:	6/19/14	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal	**Sample ID:**	MB/LCS-91722 1406666-001AMS/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	0.590	0.40	0.60	-	98.2	70-130
MTBE	ND	0.0843	0.050	0.10	-	84.3	70-130
Benzene	ND	0.110	0.0050	0.10	-	110	70-130
Toluene	ND	0.113	0.0050	0.10	-	113	70-130
Ethylbenzene	ND	0.113	0.0050	0.10	-	113	70-130
Xylenes	ND	0.355	0.0050	0.30	-	118	70-130
Surrogate Recovery							
2-Fluorotoluene	0.111	0.106		0.10	111	106	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	0	140	NR	NR	-	NR	
MTBE	NR	NR	0	ND<10	NR	NR	-	NR	
Benzene	NR	NR	0	ND<1	NR	NR	-	NR	
Toluene	NR	NR	0	ND<1	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	1.8	NR	NR	-	NR	
Xylenes	NR	NR	0	6.4	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Date Prepared:	6/18/14	**BatchID:**	91762
Date Analyzed:	6/19/14	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal	**Sample ID:**	MB/LCS-91762 1406650-019AMS/MSD

QC Summary Report for SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	49.4	0.25	50	-	98.7	75-125
Chromium	ND	51.2	0.50	50	-	102	75-125
Lead	ND	50.3	0.50	50	-	101	75-125
Nickel	ND	53.9	0.50	50	-	108	75-125
Zinc	ND	518	5.0	500	-	104	75-125
Surrogate Recovery							
Tb 350.917	610	496		500	122	99	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	43.4	53.8	50	ND	86.9	108	75-125	21.3,F1	20
Chromium	67.3	84.6	50	25.98	82.7	117	75-125	22.8,F1	20
Lead	49.7	62.2	50	6.794	85.8	111	75-125	22.4,F1	20
Nickel	69.0	86.7	50	24.72	88.5	124	75-125	22.7,F1	20
Zinc	510	638	500	78.85	86.3	112	75-125	22.2,F1	20
Surrogate Recovery									
Tb 350.917	449	558	500		90	112	70-130	21.6,F1	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406666
Date Prepared:	6/17/14	**BatchID:**	91712
Date Analyzed:	6/19/14	**Extraction Method:**	SW3550B
Instrument:	GC11A, GC2B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	Underground Facilities Removal	**Sample ID:**	MB/LCS-91712 1406632-001AMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	46.4	1.0	40	-	116	70-130
Surrogate Recovery							
C9	24.4	27.2		25	98	109	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	0	11000	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR	0		NR	NR	-	NR	

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1406666 **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: Underground Facilities Removal

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

Requested TAT: 5 days

Date Received: **06/18/2014**
Date Printed: **06/25/2014**

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
1406666-001	EXE SS2	Soil	6/18/2014 9:00	☐	A	A	A	A	A							

Test Legend:

1	8082A_PCB_S	2	8260B_S	3	8270D-PNA_S	4	G-MBTEX_S	5	LUFTMS_S
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Catherine Burton

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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WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL
Project: Underground Facilities Removal
Comments:

QC Level: LEVEL 2
Client Contact: Christina Kennedy
Contact's Email: ckennedy@geologist.com

Work Order: 1406666
Date Received: 6/18/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1406666-001A	EXE SS2	Soil	Multi-Range TPH(g,d,mo)	2	brass Tube	☐	6/18/2014 9:00	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			SW8270C (PAHs/PNAs)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
brass Tube =

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1406666

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:** Christina Kennedy

Company: CKG Environmental

E-Mail: ckennedy@geologist.com

Tele: (707) 363-5740 **Fax:** ( )

Project #: **Project Name:** Underground Facilities removal

Project Location: Owens-Brockway, Oakland **Purchase Order#**

Sampler Signature:

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX/ MTBE & TPH as Gas (8021/ 8015)	TPH as Diesel (8015) + Motor Oil	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs) 16 Priority Pollutants	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis
EX E 552									X							X	X				X			X	X	X			X	X	
~~Ex E 6W~~					X							X				X	X				X			X	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.

Relinquished By:	Date:	Time:	Received By:
Yousuf Faleen	6/18	15:11 PM	
	6/18/14	1445	
	6/18/14	1445	

ICE/t° 10.1
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS:

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

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Sample Receipt Checklist

Client Name: **CKG Environmental**

Date and Time Received: **6/18/2014 4:08:08 PM**

Project Name: **Underground Facilities Removal**

LogIn Reviewed by: Catherine Burton

WorkOrder №: **1406666** Matrix: Soil

Carrier: Rob Pringle (MAI Courier)

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 ☐	
Container/Temp Blank temperature	Cooler Temp: 6.1°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: pH<2; 522: pH<4)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☐	No ☑	

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

Comments: Date and time of collection retrieved from sample container. (no documentation on COC)

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Analytical Report

WorkOrder: 1406626

Report Created for: CKG Environmental
P.O. Box 246
St. Helena, CA 94574

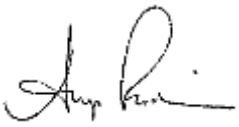
Project Contact: Christina Kennedy
Project P.O.:
Project Name: Undergound Facilities Removal

Project Received: 06/17/2014

Analytical Report reviewed & approved for release on 06/24/2014 by:

Question about your data?

Click here to email McCampbell



Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: CKG Environmental
Project: Undergound Facilities Removal
WorkOrder: 1406626

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
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
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
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
TEQ	Toxicity Equivalence

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
a1	sample diluted due to matrix interference
b6	lighter than water immiscible sheen/product is present
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.
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Project:	Undergound Facilities Removal	**Extraction Method:**	SW3510C
Date Received:	6/17/14 17:49	**Analytical Method:**	SW8082
Date Prepared:	6/17/14	**Unit:**	µg/L

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE GW1	**1406626-001C**	**Water**	**06/17/2014 11:20**	**GC20**	**91711**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	500	1000	06/18/2014 04:07
Aroclor1221	ND	500	1000	06/18/2014 04:07
Aroclor1232	ND	500	1000	06/18/2014 04:07
Aroclor1242	ND	500	1000	06/18/2014 04:07
Aroclor1248	ND	500	1000	06/18/2014 04:07
Aroclor1254	ND	500	1000	06/18/2014 04:07
Aroclor1260	ND	500	1000	06/18/2014 04:07
PCBs, total	ND	500	1000	06/18/2014 04:07

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: b6,c4
Decachlorobiphenyl	312	S	70-130	06/18/2014 04:07

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Project:	Undergound Facilities Removal	**Extraction Method:**	SW5030B
Date Received:	6/17/14 17:49	**Analytical Method:**	SW8260B
Date Prepared:	6/20/14	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE GW1	**1406626-001B**	**Water**	**06/17/2014 11:20**	**GC28**	**91860**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	06/20/2014 00:45
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/20/2014 00:45
Benzene	ND	0.50	1	06/20/2014 00:45
Bromobenzene	ND	0.50	1	06/20/2014 00:45
Bromochloromethane	ND	0.50	1	06/20/2014 00:45
Bromodichloromethane	ND	0.50	1	06/20/2014 00:45
Bromoform	ND	0.50	1	06/20/2014 00:45
Bromomethane	ND	0.50	1	06/20/2014 00:45
2-Butanone (MEK)	**3.1**	2.0	1	06/20/2014 00:45
t-Butyl alcohol (TBA)	ND	2.0	1	06/20/2014 00:45
n-Butyl benzene	**3.4**	0.50	1	06/20/2014 00:45
sec-Butyl benzene	**4.6**	0.50	1	06/20/2014 00:45
tert-Butyl benzene	**0.67**	0.50	1	06/20/2014 00:45
Carbon Disulfide	ND	0.50	1	06/20/2014 00:45
Carbon Tetrachloride	ND	0.50	1	06/20/2014 00:45
Chlorobenzene	ND	0.50	1	06/20/2014 00:45
Chloroethane	ND	0.50	1	06/20/2014 00:45
Chloroform	ND	0.50	1	06/20/2014 00:45
Chloromethane	ND	0.50	1	06/20/2014 00:45
2-Chlorotoluene	ND	0.50	1	06/20/2014 00:45
4-Chlorotoluene	ND	0.50	1	06/20/2014 00:45
Dibromochloromethane	ND	0.50	1	06/20/2014 00:45
1,2-Dibromo-3-chloropropane	ND	0.20	1	06/20/2014 00:45
1,2-Dibromoethane (EDB)	ND	0.50	1	06/20/2014 00:45
Dibromomethane	ND	0.50	1	06/20/2014 00:45
1,2-Dichlorobenzene	ND	0.50	1	06/20/2014 00:45
1,3-Dichlorobenzene	ND	0.50	1	06/20/2014 00:45
1,4-Dichlorobenzene	ND	0.50	1	06/20/2014 00:45
Dichlorodifluoromethane	ND	0.50	1	06/20/2014 00:45
1,1-Dichloroethane	ND	0.50	1	06/20/2014 00:45
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/20/2014 00:45
1,1-Dichloroethene	ND	0.50	1	06/20/2014 00:45
cis-1,2-Dichloroethene	ND	0.50	1	06/20/2014 00:45
trans-1,2-Dichloroethene	ND	0.50	1	06/20/2014 00:45
1,2-Dichloropropane	ND	0.50	1	06/20/2014 00:45
1,3-Dichloropropane	ND	0.50	1	06/20/2014 00:45
2,2-Dichloropropane	ND	0.50	1	06/20/2014 00:45
1,1-Dichloropropene	ND	0.50	1	06/20/2014 00:45

(Cont.)

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Project:	Undergound Facilities Removal	**Extraction Method:**	SW5030B
Date Received:	6/17/14 17:49	**Analytical Method:**	SW8260B
Date Prepared:	6/20/14	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE GW1	**1406626-001B**	**Water**	**06/17/2014 11:20**	**GC28**	**91860**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50	1	06/20/2014 00:45
trans-1,3-Dichloropropene	ND	0.50	1	06/20/2014 00:45
Diisopropyl ether (DIPE)	ND	0.50	1	06/20/2014 00:45
Ethylbenzene	ND	0.50	1	06/20/2014 00:45
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/20/2014 00:45
Freon 113	ND	0.50	1	06/20/2014 00:45
Hexachlorobutadiene	ND	0.50	1	06/20/2014 00:45
Hexachloroethane	ND	0.50	1	06/20/2014 00:45
2-Hexanone	ND	0.50	1	06/20/2014 00:45
Isopropylbenzene	**1.2**	0.50	1	06/20/2014 00:45
4-Isopropyl toluene	ND	0.50	1	06/20/2014 00:45
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/20/2014 00:45
Methylene chloride	ND	0.50	1	06/20/2014 00:45
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	06/20/2014 00:45
Naphthalene	**9.5**	0.50	1	06/20/2014 00:45
n-Propyl benzene	ND	0.50	1	06/20/2014 00:45
Styrene	ND	0.50	1	06/20/2014 00:45
1,1,1,2-Tetrachloroethane	ND	0.50	1	06/20/2014 00:45
1,1,2,2-Tetrachloroethane	ND	0.50	1	06/20/2014 00:45
Tetrachloroethene	ND	0.50	1	06/20/2014 00:45
Toluene	ND	0.50	1	06/20/2014 00:45
1,2,3-Trichlorobenzene	ND	0.50	1	06/20/2014 00:45
1,2,4-Trichlorobenzene	ND	0.50	1	06/20/2014 00:45
1,1,1-Trichloroethane	ND	0.50	1	06/20/2014 00:45
1,1,2-Trichloroethane	ND	0.50	1	06/20/2014 00:45
Trichloroethene	ND	0.50	1	06/20/2014 00:45
Trichlorofluoromethane	ND	0.50	1	06/20/2014 00:45
1,2,3-Trichloropropane	ND	0.50	1	06/20/2014 00:45
1,2,4-Trimethylbenzene	ND	0.50	1	06/20/2014 00:45
1,3,5-Trimethylbenzene	ND	0.50	1	06/20/2014 00:45
Vinyl Chloride	ND	0.50	1	06/20/2014 00:45
Xylenes, Total	ND	0.50	1	06/20/2014 00:45

Surrogates	REC (%)	Limits	Analytical Comments: b6	
Dibromofluoromethane	95	70-130		06/20/2014 00:45
Toluene-d8	89	70-130		06/20/2014 00:45
4-BFB	113	70-130		06/20/2014 00:45

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Project:	Undergound Facilities Removal	**Extraction Method:**	SW3510C
Date Received:	6/17/14 17:49	**Analytical Method:**	SW8270C-SIM
Date Prepared:	6/20/14	**Unit:**	µg/L

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE GW1	**1406626-001E**	**Water**	**06/17/2014 11:20**	**GC35**	**91901**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	**330**	250	500	06/20/2014 20:21
Acenaphthylene	ND	250	500	06/20/2014 20:21
Anthracene	ND	250	500	06/20/2014 20:21
Benzo (a) anthracene	ND	250	500	06/20/2014 20:21
Benzo (b) fluoranthene	ND	250	500	06/20/2014 20:21
Benzo (k) fluoranthene	ND	250	500	06/20/2014 20:21
Benzo (g,h,i) perylene	ND	250	500	06/20/2014 20:21
Benzo (a) pyrene	ND	250	500	06/20/2014 20:21
Chrysene	ND	250	500	06/20/2014 20:21
Dibenzo (a,h) anthracene	ND	250	500	06/20/2014 20:21
Fluoranthene	ND	250	500	06/20/2014 20:21
Fluorene	**620**	250	500	06/20/2014 20:21
Indeno (1,2,3-cd) pyrene	ND	250	500	06/20/2014 20:21
1-Methylnaphthalene	**1700**	250	500	06/20/2014 20:21
2-Methylnaphthalene	**1300**	250	500	06/20/2014 20:21
Naphthalene	ND	250	500	06/20/2014 20:21
Phenanthrene	**750**	250	500	06/20/2014 20:21
Pyrene	ND	250	500	06/20/2014 20:21

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: b6,c1
1-Fluoronapthalene	2175	S	30-130	06/20/2014 20:21
2-Fluorobiphenyl	1284	S	30-130	06/20/2014 20:21

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Project:	Undergound Facilities Removal	**Extraction Method:**	SW5030B
Date Received:	6/17/14 17:49	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	6/20/14	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE GW1	**1406626-001A**	**Water**	**06/17/2014 11:20**	**GC3**	**91669**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1000**	250	5	06/20/2014 06:28
MTBE	---	25	5	06/20/2014 06:28
Benzene	---	2.5	5	06/20/2014 06:28
Toluene	---	2.5	5	06/20/2014 06:28
Ethylbenzene	---	2.5	5	06/20/2014 06:28
Xylenes	---	2.5	5	06/20/2014 06:28
Surrogates	REC (%)	Limits	Analytical Comments: d7,b6	
aaa-TFT	96	70-130		06/20/2014 06:28

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Project:	Undergound Facilities Removal	**Extraction Method:**	E200.8
Date Received:	6/17/14 17:49	**Analytical Method:**	E200.8
Date Prepared:	6/17/14	**Unit:**	µg/L

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE GW1	**1406626-001D**	**Water/TOTAL**	**06/17/2014 11:20**	**ICP-MS1**	**91695**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	5.0	20	06/18/2014 21:14
Chromium	**150**	10	20	06/18/2014 21:14
Lead	**16**	10	20	06/18/2014 21:14
Nickel	**190**	10	20	06/18/2014 21:14
Zinc	**110**	100	20	06/18/2014 21:14

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	109	70-130		06/18/2014 21:14

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Analytical Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Project:	Undergound Facilities Removal	**Extraction Method:**	SW3510C
Date Received:	6/17/14 17:49	**Analytical Method:**	SW8015B
Date Prepared:	6/17/14	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EXE GW1	**1406626-001A**	**Water**	**06/17/2014 11:20**	**GC9b**	**91708**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**540,000**	25,000	500	06/20/2014 18:43
TPH-Motor Oil (C18-C36)	**670,000**	120,000	500	06/20/2014 18:43

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2,b6
C9	98	70-130	06/20/2014 18:43

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Date Prepared:	6/17/14	**BatchID:**	91711
Date Analyzed:	6/18/14	**Extraction Method:**	SW3510C
Instrument:	GC20	**Analytical Method:**	SW8082
Matrix:	Water	**Unit:**	µg/L
Project:	Undergound Facilities Removal	**Sample ID:**	MB/LCS-91711

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	3.81	0.50	3.75	-	102	70-130
PCBs, total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	1.31	1.35		1.25	105	108	70-130

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Date Prepared:	6/20/14	**BatchID:**	91860
Date Analyzed:	6/19/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Undergound Facilities Removal	**Sample ID:**	MB/LCS-91860 1406613-002BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	19.8	0.50	20	-	99.2	70-130
Benzene	ND	22.5	0.50	20	-	113	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	60.1	2.0	80	-	75.1	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	21.7	0.50	20	-	108	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	20.2	0.50	20	-	101	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	19.0	0.50	20	-	95.2	70-130
1,1-Dichloroethene	ND	20.1	0.50	20	-	101	70-130
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

(Cont.)

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Date Prepared:	6/20/14	**BatchID:**	91860
Date Analyzed:	6/19/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Undergound Facilities Removal	**Sample ID:**	MB/LCS-91860 1406613-002BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	21.8	0.50	20	-	109	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	20.7	0.50	20	-	103	70-130
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	18.8	0.50	20	-	94.1	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	20.8	0.50	20	-	104	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	23.7	0.50	20	-	119	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	23.1	43.8		45	92	97	70-130
Toluene-d8	25.3	45.1		45	101	100	70-130
4-BFB	2.44	4.46		4.5	98	99	70-130

(Cont.)

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Date Prepared:	6/20/14	**BatchID:**	91860
Date Analyzed:	6/19/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	Undergound Facilities Removal	**Sample ID:**	MB/LCS-91860 1406613-002BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	22.9	22.8	20	ND	114	114	70-130	0	20
Benzene	21.5	21.3	20	ND	107	106	70-130	1.06	20
t-Butyl alcohol (TBA)	91.8	89.4	80	ND	115	112	70-130	2.62	20
Chlorobenzene	20.9	20.9	20	ND	105	105	70-130	0	20
1,2-Dibromoethane (EDB)	23.6	23.5	20	ND	118	118	70-130	0	20
1,2-Dichloroethane (1,2-DCA)	21.8	21.9	20	ND	109	109	70-130	0	20
1,1-Dichloroethene	20.7	20.6	20	ND	104	103	70-130	0.363	20
Diisopropyl ether (DIPE)	22.2	21.4	20	ND	111	107	70-130	3.36	20
Ethyl tert-butyl ether (ETBE)	22.8	22.5	20	ND	114	113	70-130	1.29	20
Methyl-t-butyl ether (MTBE)	23.2	22.5	20	ND	116	112	70-130	3.09	20
Toluene	20.1	20.0	20	ND	101	99.8	70-130	0.678	20
Trichloroethene	24.8	24.5	20	ND	124	123	70-130	1.11	20
Surrogate Recovery									
Dibromofluoromethane	47.3	46.9	45		105	104	70-130	0.680	20
Toluene-d8	42.3	42.0	45		94	93	70-130	0.694	20
4-BFB	4.74	4.70	4.5		105	104	70-130	0.922	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Date Prepared:	6/20/14	**BatchID:**	91901
Date Analyzed:	6/20/14	**Extraction Method:**	SW3510C
Instrument:	GC35	**Analytical Method:**	SW8270C-SIM
Matrix:	Water	**Unit:**	µg/L
Project:	Undergound Facilities Removal	**Sample ID:**	MB/LCS-91901

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.50	-	-	-	-
Acenaphthylene	ND	-	0.50	-	-	-	-
Anthracene	ND	-	0.50	-	-	-	-
Benzo (a) anthracene	ND	-	0.50	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.50	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.50	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.50	-	-	-	-
Benzo (a) pyrene	ND	5.46	0.50	10	-	54.6	30-130
Chrysene	ND	6.47	0.50	10	-	64.7	30-130
Dibenzo (a,h) anthracene	ND	-	0.50	-	-	-	-
Fluoranthene	ND	-	0.50	-	-	-	-
Fluorene	ND	-	0.50	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.50	-	-	-	-
1-Methylnaphthalene	ND	7.06	0.50	10	-	70.6	30-130
2-Methylnaphthalene	ND	6.24	0.50	10	-	62.4	30-130
Naphthalene	ND	-	0.50	-	-	-	-
Phenanthrene	ND	6.64	0.50	10	-	66.4	30-130
Pyrene	ND	5.90	0.50	10	-	59	30-130
Surrogate Recovery							
1-Fluoronapthalene	22.6	21.4		25	90	86	30-130
2-Fluorobiphenyl	21.7	20.9		25	87	84	30-130

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Date Prepared:	6/17/14	**BatchID:**	91669
Date Analyzed:	6/16/14	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	Undergound Facilities Removal	**Sample ID:**	MB/LCS-91669 1406420-021AMS/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	63.5	40	60	-	106	70-130
MTBE	ND	10.8	5.0	10	-	108	70-130
Benzene	ND	10.2	0.50	10	-	102	70-130
Toluene	ND	10.3	0.50	10	-	103	70-130
Ethylbenzene	ND	10.4	0.50	10	-	104	70-130
Xylenes	ND	31.4	0.50	30	-	105	70-130
Surrogate Recovery							
aaa-TFT	9.74	9.70		10	97	97	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	63.8	65.0	60	ND	106	108	70-130	1.80	20
MTBE	11.1	9.96	10	ND	111	99.6	70-130	11.0	20
Benzene	11.8	10.8	10	0.7409	111	100	70-130	9.22	20
Toluene	11.1	10.2	10	ND	111	102	70-130	8.24	20
Ethylbenzene	11.0	10.2	10	ND	110	102	70-130	7.30	20
Xylenes	33.5	31.5	30	ND	112	105	70-130	6.26	20
Surrogate Recovery									
aaa-TFT	10.1	9.62	10		101	96	70-130	5.11	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Date Prepared:	6/17/14	**BatchID:**	91695
Date Analyzed:	6/18/14	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Undergound Facilities Removal	**Sample ID:**	MB/LCS-91695 1406613-001DMS/MSD

QC Summary Report for E200.8

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	50.2	0.25	50	-	100	85-115
Chromium	ND	54.9	0.50	50	-	110	85-115
Lead	ND	49.6	0.50	50	-	99.1	85-115
Nickel	ND	51.0	0.50	50	-	102	85-115
Zinc	ND	526	5.0	500	-	105	85-115
Surrogate Recovery							
Tb 350.917	766	782		750	102	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	49.6	53.9	50	ND	99.3	108	70-130	8.25	20
Chromium	51.9	52.2	50	ND	104	104	70-130	0	20
Lead	52.9	56.2	50	2.5	101	107	70-130	6.04	20
Nickel	55.4	57.0	50	5.8	99.1	102	70-130	2.88	20
Zinc	576	578	500	64	102	103	70-130	0.295	20
Surrogate Recovery									
Tb 350.917	768	846	750		102	113	70-130	9.60	20

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Quality Control Report

Client:	CKG Environmental	**WorkOrder:**	1406626
Date Prepared:	6/17/14	**BatchID:**	91708
Date Analyzed:	6/18/14	**Extraction Method:**	SW3510C
Instrument:	GC11A	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	Undergound Facilities Removal	**Sample ID:**	MB/LCS-91708

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	850	50	1000	-	85	70-130
Surrogate Recovery							
C9	611	621		625	98	99	70-130

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1406626 **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: Undergound Facilities Removal

Bill to:
Accounts Payable
CKG Environmental
808 Zinfindel Lane
St. Helena, CA 94574

Requested TAT: 5 days

Date Received: **06/17/2014**
Date Printed: **06/24/2014**

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
1406626-001	EXE GW1	Water	6/17/2014 11:20	☐	C	B	E	A	D							

Test Legend:

1	8082A_PCB_W	2	8260B_W	3	8270D-PNA_W	4	G-MBTEX_W	5	LUFTMS_W
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Catherine Burton

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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WORK ORDER SUMMARY

Client Name: CKG ENVIRONMENTAL
Project: Undergound Facilities Removal
Comments:

QC Level: LEVEL 2
Client Contact: Christina Kennedy
Contact's Email: ckennedy@geologist.com

Work Order: 1406626
Date Received: 6/17/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1406626-001A	EXE GW1	Water	Multi-Range TPH(g,d,mo)	3	VOA w/ HCl	☐	6/17/2014 11:20	5 days		☐	
1406626-001B	EXE GW1	Water	SW8260B (VOCs)	3	VOA w/ HCl	☐	6/17/2014 11:20	5 days		☐	
1406626-001C	EXE GW1	Water	SW8082 (PCBs Only)	3	VOA w/ HCl	☐	6/17/2014 11:20	5 days		☐	
1406626-001D	EXE GW1	Water	E200.8 (LUFT)	3	VOA w/ HCl	☐	6/17/2014 11:20	5 days		☐	
1406626-001E	EXE GW1	Water	SW8270C (PAHs/PNAs)	3	VOA w/ HCl	☐	6/17/2014 11:20	5 days		☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
VOA w/ HCl = 43mL VOA w/ HCl

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140626

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:** Christina Kennedy
Company: CRG Environmental	
	E-Mail: ckennedy@geologist.com
Tele: (~~707~~) 2 (707) 363-5740	**Fax:** ( )
Project #:	**Project Name:** Underground Facilities
Project Location: Queens Brockway, Oakland	**Purchase Order#** Remy
Sampler Signature:	

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
Ex E GW		6/17/14	11:20		X										

Analysis Request

~~BTEX/ MTBE~~ & TPH as Gas (8021/ 8015)	TPH as Diesel (8015) + Motor Oil	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & ~~TPH as Gas~~ (8260)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs) 16 Priority Pollutants	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020) Total Pb	Filter sample for DISSOLVED metals analysis				
X	X				X			X	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.

Relinquished By:	Date:	Time:	Received By:
Yousuf Raleem	6/17/14	1345	
Relinquished By:	Date:	Time:	Received By:
	6/17/14	1500	
Relinquished By:	Date:	Time:	Received By:
	6/17/14	1500	

ICE/t° 2.0
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS:

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

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Sample Receipt Checklist

Client Name: **CKG Environmental**

Date and Time Received: **6/17/2014 5:49:14 PM**

Project Name: **Undergound Facilities Removal**

LogIn Reviewed by: Catherine Burton

WorkOrder №: **1406626** Matrix: Water

Carrier: Rob Pringle (MAI Courier)

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 ☐	
Container/Temp Blank temperature	Cooler Temp: 2°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: pH<2; 522: pH<4)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☐	No ☑	

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

Comments:

Appendix 7
Concrete Field/Laboratory Test Results and Concrete Batch Records

TESTING ENGINEERS, INC.

Date: 7-1-14
Project No.:
Project Name:
Address: 3600 Alameda
City: Oakland
Requested by: Scott
Reported to: "

DSA File #: **DSA App. #:**
OSHPD No.:
Permit / SF App. #:
Tow Code:
Start Time: 10:00
Hours: 8.0
of:

Reinforcing Steel (180), Concrete (107) and Post-Tensioning Report (144)

☐ Inspected the placement of ☑ **reinforcing steel;** ☐ **tendons;** ☐ AB's ; ☐ HD's ; ☐ **tie downs (180)** at the following locations:
per Spec.

☐ Inspected the stressing operations (144) and recorded elongations (on file at TEI office) for the following location(s):

Performed ☐ continuous ☐ periodic inspection at batch plant (123) operations for materials and checked ____ loads leaving plant.

☑ Performed continuous inspection of the placement of ☑ **concrete (107);** ☐ **non-shrink grout (168)** ☐ **Concrete Sample Only (147)**

☑ Monitored loads arriving at the jobsite for correct mix and proper slump.

☑ Inspected placement operations and vibrating procedures. ☐ Performed ____ Unit weight tests. (____) ☐ Performed ____ air entrainment tests (____) ☐ Performed 7 slump test(s) (2¾, 3¾, 2, 2½, 3¾, 2¾, 3¾) and cast 1 set(s) of compression test specimens (5 ea.)

Sample # 245238, ____, ____, ____, ____, ____, ____, for Concrete Mix # 1701C5C1

from (supplier) Central, specified strength 4000 @ 28 days, air ____ %, and slump 2-4 inches

for concrete placed at Slab infills Excavation "E" and "C"
Per Spec. Sect. 330025 2.4 B
Slump test req for each Load

Total cubic yards placed: 65.0

☐ Final acceptance is pending written approval or corrective action as noted. ☐ See attached RFI.

☐ All non-compliance items were brought to the attention of ____ at jobsite.

Notes: This mix has a heavy dose of Fiber
Change 7 day break to 3 day break

☐ Showup; ☐ Stand-by time; ☐ Job Cancelled; ☐ Re-inspection; Hours:

The work ☑ *was* ☐ *was not inspected in accordance with the* ☐ *Building Department or* ☐ *DSA or* ☐ *OSHPD approved documents.*
The work inspected ☑ *met* ☐ *did not meet the requirements of the* ☐ *Building Department or* ☐ *DSA or* ☐ *OSHPD approved documents,* ☐ *except as noted above.*
Material sampling ☑ *was* ☐ *was not* ☐ N/A *performed in accordance with the* ☐ *Building Department or* ☐ *DSA or* ☐ *OSHPD approved documents.*

Drawings ____ Dated ____ ☐ City ☐ County ☐ DSA ☐ Shop

Inspector: B. K. Wall Certification # ____ Date: ____

Received by: ____ Date: ____

CENTRAL CONCRETE SUPPLY COMPANY — Central / Bode / Westside

a U.S. CONCRETE COMPANY

CENTRAL CONCRETE SUPPLY CO., INC.

MAIN OFFICE:
755 Stockton Avenue,
San Jose, CA 95126
1-866-404-1000

TICKET NUMBER

188517[illegible]

WARNING: IRRITATION TO THE SKIN AND EYES: Contains Portland Cement. Wear rubber boots and gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

CONCRETE IS A PERISHABLE COMMODITY AND BECOMES THE PROPERTY OF THE PURCHASER UPON LEAVING THE PLANT. ANY CHANGES OR CANCELLATION OF ORIGINAL INSTRUCTIONS MUST BE TELEPHONED TO THE OFFICE BEFORE LOADING STARTS.

WE DO NOT GUARANTEE FINISHED RESULTS OBTAINED FROM THIS LOAD OF CONCRETE AS MANY IMPORTANT FACTORS AFFECTING THE ULTIMATE QUALITY OF THE COMPLETED JOB ARE OUT OF OUR CONTROL. We do not warrant that the concrete can be used in any particular environment or soil conditions or that the concrete is fit for any particular use. Selection of the mix design and/or specification of the mix design parameters are solely the responsibility of the Customer, and we assume no liability therefore.

PLEASE NOTE THIS LOAD OF CONCRETE IS PRODUCED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR READY MIX CONCRETE ASTM. ANY DE-ICING MATERIALS, IMPROPER FINISHING AND LACK OF CURING WILL CAUSE DAMAGE OR A DECREASE IN STRENGTH.

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE POURING.

LOAD RECEIVED BY:

X ____________________

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED: X ____________________

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

WATER ADDED AT CUSTOMER REQU[EST]
EXCESSIVE WATER IS DETRIMENTA[L]
TO CONCRETE PERFORMANCE

X ____________________
REQUESTOR'S NAME

SA

FULL LOAD	¼ LOAD	½ LOAD
(GALLONS)	(GALLONS)	(GALLONS)

TEST RESULTS

SLUMP	CONC. TEMP

CYLINDERS TAKEN: ☐ YES ☐ NO

NAME OF TESTING LAB:

CUSTOMER: [illegible] ENVIRONMENTAL SERVICES	CUSTOMER CODE: [illegible]	DELIVERY ADDRESS: [illegible]600 ALAMEDA AVE. OAKLAND
PROJECT NAME	PROJECT CODE	
CUSTOMER P.O. #	SPECIAL INSTRUCTIONS: C/S FRUITVALE AVE. / PUT FIBERS IN @ END OF LOADING PROCESS	
CUSTOMER JOB ID #		RETURNED CONCRETE

LOAD QUANTITY		ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRI[CE]
10.00	yd	60	10	[illegible]	7.5 SK AGG W/ WR		
75.00	ea	0	75	RFIBER6	FORTA-FERRO FIBERS 7.5		
10.00	ea	0		EFUEL06	FUEL06 [illegible] FUEL SURC[HARGE]		
10.00	ea	0		[illegible]	[illegible] *ENVIRONMENTAL		

* YD = CUBIC YARD

BATCH TIME	LEAVE PLANT	ARRIVE JOB	BEGIN POUR	FINISH POUR	LEAVE JOB	ARRIVE AT PLANT	USAGE CODE	SUB TOTAL
7:20								

TOTAL WAIT TIME	PREVIOUS TRUCK	LOAD #	SLUMP	MAP PAGE	TIME DUE ON JOB	TAX RATE	TAX
		1			9:5[illegible]		

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	ORDER GRAND TOTAL	TOTAL
07/01/14	1309	12	1,354	ROGERS, DANIEL		

DRUM REV - AT PLANT	DRUM REV - START	DRUM REV - FINISH	DEPUTY WEIGHMASTER
			Robert Jensen Weighat 2400 Peralta St, Oakland, [illegible]

WEIGHMASTER CERTIFICA[TE]

13259193

ENTRAL CONCRETE SUPPLY COMPANY | Central Bode Westside

a U.S. CONCRETE COMPANY

CENTRAL CONCRETE SUPPLY CO., INC.

MAIN OFFICE:
755 Stockton Avenue,
San Jose, CA 95126
1-866-404-1000

TICKET NUMBER

188518

WARNING: IRRITATION TO THE SKIN AND EYES: Contains Portland Cement. Wear rubber boots and gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

CONCRETE IS A PERISHABLE COMMODITY AND BECOMES THE PROPERTY OF THE PURCHASER UPON LEAVING THE PLANT. ANY CHANGES OR CANCELLATION OF ORIGINAL INSTRUCTIONS MUST BE TELEPHONED TO THE OFFICE BEFORE LOADING STARTS.

WE DO NOT GUARANTEE FINISHED RESULTS OBTAINED FROM THIS LOAD OF CONCRETE AS MANY IMPORTANT FACTORS AFFECTING THE ULTIMATE QUALITY OF THE COMPLETED JOB ARE OUT OF OUR CONTROL. We do not warrant that the concrete can be used in any particular environment or soil conditions or that the concrete is fit for any particular use. Selection of the mix design and/or specification of the mix design parameters are solely the responsibility of the Customer, and we assume no liability therefore.

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NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE POURING.

LOAD RECEIVED BY:

X ____________________

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED X ____________________

WEIGHMASTER CERTIFICATE

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WATER ADDED AT CUSTOMER REQ
EXCESSIVE WATER IS DETRIMENT TO CONCRETE PERFORMANCE

X ____________________
REQUESTOR'S NAME

SA

FULL LOAD	¾ LOAD	½ LOAD
(GALLONS)	(GALLONS)	(GALLONS)

TEST RESULTS

SLUMP	CONC. TEMP.

CYLINDERS TAKEN ☐ YES ☐ NO

NAME OF TESTING LAB:

CUSTOMER ENVIRONMENTAL SERVICE	CUSTOMER CODE	DELIVERY ADDRESS 3600 ALAMEDA AVE. OAKLAND
PROJECT NAME	PROJECT CODE	
CUSTOMER P.O. #	SPECIAL INSTRUCTIONS E/S FRUITVALE AVE. / ADD FIBERS IN @ END OF LOADING PROCESS	
CUSTOMER JOB ID #		RETURNED CONCRETE

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
[illegible]	[illegible]	[illegible]	[illegible]	7.5 [illegible] WR		
75.00 ea	0	150	RFIBER6	FORTA-FERRO FIBERS		
10.00 ea	0		EFUEL06	FUEL06 #2006 FUEL SURC		
10.00 ea	0		EENV12	904 #ENVIRONMENTAL		
* YD = CUBIC YARD						

BATCH TIME	LEAVE PLANT	ARRIVE JOB	BEGIN POUR	FINISH POUR	LEAVE JOB	ARRIVE AT PLANT	USAGE CODE	SUB TOTAL
9:45								

TOTAL WAIT TIME	PREVIOUS TRUCK	LOAD #	SLUMP	MAP PAGE	TIME DUE ON JOB	TAX RATE	TAX
	1254				10:15		

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	ORDER GRAND TOTAL	TOTAL
07/01/14	1509	12	1250	[illegible], SCOTT		

DRUM REV - AT PLANT	DRUM REV - START	DRUM REV - FINISH	DEPUTY WEIGHMASTER
			Robert Jensen Weighat2400Peralta St, Oakland, CA

WEIGHMASTER CERTIFICATE
13259196

CENTRAL CONCRETE SUPPLY COMPANY | Central Bode Westside

a U.S. CONCRETE COMPANY

CENTRAL CONCRETE SUPPLY CO., INC.

MAIN OFFICE:
755 Stockton Avenue,
San Jose, CA 95126
1-866-404-1000

TICKET NUMBER

WARNING: IRRITATION TO THE SKIN AND EYES: Contains Portland Cement. Wear rubber boots and gloves. **PROLONGED CONTACT MAY CAUSE BURNS.** Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

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NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE POURING.

LOAD RECEIVED BY:

X _____

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration; the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED: X _____

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WATER ADDED AT CUSTOMER REQU
EXCESSIVE WATER IS DETRIMENTA
TO CONCRETE PERFORMANCE

X _____
REQUESTOR'S NAME

SA

FULL LOAD (GALLONS)	¾ LOAD (GALLONS)	½ LOAD (GALLONS)	

TEST RESULTS

SLUMP	CONC. TEMP	

CYLINDERS TAKEN. ☐ YES ☐ NO

NAME OF TESTING LAB.

CUSTOMER: [illegible] ENVIRONMENTAL SERVICES | CUSTOMER CODE: [illegible]

DELIVERY ADDRESS: 5400 ALAMEDA AVE, OAKLAND

PROJECT NAME:

PROJECT CODE:

CUSTOMER P.O. #:

CUSTOMER JOB ID #:

SPECIAL INSTRUCTIONS: 675 FRUITVALE AVE. ; PUT FIBERMIX @ END OF LOADING PROCESS

RETURNED CONCRETE

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRI
75.00	0	225	FIBERPE	FORTA-FERRO FIBERS 7.5		
10.00	0		EHUE106	FUEL SURCHARGE		
10.00	0		ENV13	#ENVIRONMENTAL		

* YD = CUBIC YARD

BATCH TIME	LEAVE PLANT	ARRIVE JOB	BEGIN POUR	FINISH POUR	LEAVE JOB	ARRIVE AT PLANT	USAGE CODE	SUB TOTAL
10:14								

TOTAL WAIT TIME	PREVIOUS TRUCK	LOAD #	SLUMP	MAP PAGE	TIME DUE ON JOB	TAX RATE	TAX
	LOCAL	3	4		10:46		

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	ORDER GRAND TOTAL	TOTAL
07/01/14	13059	12	1213	TROUPE, DIAMOND		

DRUM REV - AT PLANT	DRUM REV - START	DRUM REV - FINISH	DEPUTY WEIGHMASTER
			Robert Jensen Weighmaster, Oakland,

WEIGHMASTER CERTIFICA

13259198

CENTRAL CONCRETE SUPPLY COMPANY

Central
Bode
Westside

a U.S. CONCRETE COMPANY

CENTRAL CONCRETE SUPPLY CO., INC.

MAIN OFFICE:
755 Stockton Avenue,
San Jose, CA 95126
1-866-404-1000

TICKET NUMBER

WARNING: IRRITATION TO THE SKIN AND EYES: Contains Portland Cement. Wear rubber boots and gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

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NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE POURING.

LOAD RECEIVED BY:

X ______________________

PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED. X ______________________

WEIGHMASTER CERTIFICATE

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WATER ADDED AT CUSTOMER REQUEST

EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE.

X ______________________

REQUESTOR'S NAME

SA

FULL LOAD	¾ LOAD	½ LOAD	¼ LOAD
(GALLONS)	(GALLONS)	(GALLONS)	(GALLONS)

TEST RESULTS

SLUMP	CONC. TEMP.	AIR%

CYLINDERS TAKEN. ☐ YES ☐ NO

NAME OF TESTING LAB:

CUSTOMER	CUSTOMER CODE	DELIVERY ADDRESS
[illegible] ENVIRONMENTAL SERVICES	[illegible]	5600 ALAMEDA AVE., OAKLAND
PROJECT NAME	PROJECT CODE	

CUSTOMER P.O #	SPECIAL INSTRUCTIONS	RETURNED CONCRETE
	[illegible] FRUITVALE AVE. / PUT FIBERS IN [illegible] OF LOADING PROCESS...	
CUSTOMER JOB ID #		
[illegible]		

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
10.00 yd	[illegible]	[illegible]	[illegible]	7.5 SK [illegible] NR		
75.00 ea	0	300	SFIBERS	[illegible] FIBRO FIBERS 7.5		
[illegible].00 ea	[illegible]		EFUEL[illegible]	FUEL06 *2006 FUEL [illegible]		
10.00 ea	0		EENV12	[illegible]		
* [illegible] CUBIC YARD						

BATCH TIME	LEAVE PLANT	ARRIVE JOB	BEGIN POUR	FINISH POUR	LEAVE JOB	ARRIVE AT PLANT	USAGE CODE	SUB TOTAL
10:57								

TOTAL WAIT TIME	PREVIOUS TRUCK	LOAD #	SLUMP	MAP PAGE	TIME DUE ON JOB	TAX RATE	TAX
	121[illegible]	1	4		11:[illegible]		

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	ORDER GRAND TOTAL	TOTAL
07/01 [illegible]	[illegible]	12	1215	NARANJO, LORENZO		

DRUM REV - AT PLANT	DRUM REV - START	DRUM REV - FINISH	DEPUTY WEIGHMASTER
			Robert [illegible] Weighat2400[illegible]St.Oakland.

WEIGHMASTER CERTIFICATE #

13259201

CENTRAL CONCRETE SUPPLY COMPANY

Central
Bode
Westside

a U.S. CONCRETE COMPANY

CENTRAL CONCRETE SUPPLY CO., INC.

MAIN OFFICE:
755 Stockton Avenue,
San Jose, CA 95126
1-866-404-1000

TICKET NUMBER

1885196

WARNING: IRRITATION TO THE SKIN AND EYES: Contains Portland Cement. Wear rubber boots and gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

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NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE POURING.

LOAD RECEIVED BY:

X _____

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

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SIGNED: X _____

WEIGHMASTER CERTIFICATE

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WATER ADDED AT CUSTOMER REQU
EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE

X _____
REQUESTOR'S NAME

SA

FULL LOAD (GALLONS)	¾ LOAD (GALLONS)	½ LOAD (GALLONS)	¼ (G

TEST RESULTS

SLUMP	CONC. TEMP.	A

CYLINDERS TAKEN. ☐ YES ☐ NO

NAME OF TESTING LAB:

CUSTOMER	CUSTOMER CODE	DELIVERY ADDRESS
ENVIRONMENTAL SERVICES		
PROJECT NAME	PROJECT CODE	
CUSTOMER P.O. #	SPECIAL INSTRUCTIONS	
CUSTOMER JOB ID #		RETURNED CONCRETE

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRIC

BATCH TIME	LEAVE PLANT	ARRIVE JOB	BEGIN POUR	FINISH POUR	LEAVE JOB	ARRIVE AT PLANT	USAGE CODE	SUB TOTAL

TOTAL WAIT TIME	PREVIOUS TRUCK	LOAD #	SLUMP	MAP PAGE	TIME DUE ON JOB	TAX RATE	TAX

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	ORDER GRAND TOTAL	TOTAL

DRUM REV - AT PLANT	DRUM REV - START	DRUM REV - FINISH	DEPUTY WEIGHMASTER	WEIGHMASTER CERTIFICAT

13259203

CENTRAL CONCRETE SUPPLY COMPANY | Central Bode Westside

a U.S. CONCRETE COMPANY

CENTRAL CONCRETE SUPPLY CO., INC.

MAIN OFFICE:
755 Stockton Avenue,
San Jose, CA 95126
1-866-404-1000

TICKET NUMBER

18852004

WARNING: IRRITATION TO THE SKIN AND EYES: Contains Portland Cement. Wear rubber boots and gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

CONCRETE IS A PERISHABLE COMMODITY AND BECOMES THE PROPERTY OF THE PURCHASER UPON LEAVING THE PLANT. ANY CHANGES OR CANCELLATION OF ORIGINAL INSTRUCTIONS MUST BE TELEPHONED TO THE OFFICE BEFORE LOADING STARTS.

WE DO NOT GUARANTEE FINISHED RESULTS OBTAINED FROM THIS LOAD OF CONCRETE AS MANY IMPORTANT FACTORS AFFECTING THE ULTIMATE QUALITY OF THE COMPLETED JOB ARE OUT OF OUR CONTROL. We do not warrant that the concrete can be used in any particular environment or soil conditions or that the concrete is fit for any particular use. Selection of the mix design and/or specification of the mix design parameters are solely the responsibility of the Customer, and we assume no liability therefore.

PLEASE NOTE: THIS LOAD OF CONCRETE IS PRODUCED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR READY MIX CONCRETE ASTM. ANY DE-ICING MATERIALS, IMPROPER FINISHING AND LACK OF CURING WILL CAUSE DAMAGE OR A DECREASE IN STRENGTH.

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE) AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE POURING.

LOAD RECEIVED BY:

X _____

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration; the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED. X _____

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

WATER ADDED AT CUSTOMER REQUEST
EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE.

X _____
REQUESTOR'S NAME

SA

FULL LOAD	¾ LOAD	½ LOAD	¼ LOAD
(GALLONS)	(GALLONS)	(GALLONS)	(GALLONS)

TEST RESULTS

SLUMP	CONC. TEMP.	AIR%

CYLINDERS TAKEN. ☐ YES ☐ NO

NAME OF TESTING LAB:

CUSTOMER: NRC ENVIRONMENTAL SERVICES | CUSTOMER CODE: N 1002801

DELIVERY ADDRESS: 3600 ALAMEDA AVE, OAKLAND

PROJECT NAME | PROJECT CODE

CUSTOMER P.O. #

CUSTOMER JOB ID #: 85956

SPECIAL INSTRUCTIONS: C/S FRUITVALE AVE. & PUT FIBERSIN @ END OF LOADING PROCESS. (INCH ON JOB/////////

RETURNED CONCRETE

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
10.00	yd 60	60	1701C5C1	7.5 SK A&E W/ NR		
75.00	ea 0	450	RFIBER6	FORTA-FERRO FIBERS, 7.5		
10.00	ea 0		EFUEL06	FUEL06 *2006 FUEL SURC		
10.00	ea 0		EENV12	964 *ENVIRONMENTAL		

* YD = CUBIC YARD

BATCH TIME	LEAVE PLANT	ARRIVE JOB	BEGIN POUR	FINISH POUR	LEAVE JOB	ARRIVE AT PLANT	USAGE CODE	SUB TOTAL
11:44								

TOTAL WAIT TIME	PREVIOUS TRUCK	LOAD #	SLUMP	MAP PAGE	TIME DUE ON JOB	TAX RATE	TAX
	1254	6	4		12:13		

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	ORDER GRAND TOTAL	TOTAL
07/01/14	1309	12	1258	GONSALVES, SCOTT		

DRUM REV - AT PLANT	DRUM REV - START	DRUM REV - FINISH	DEPUTY WEIGHMASTER
			Robert Jensen Weighat2400PeraltaSt,Oakland,CA

WEIGHMASTER CERTIFICATE #

13259206

CENTRAL CONCRETE SUPPLY COMPANY — Central · Bode · Westside

a U.S. CONCRETE COMPANY

CENTRAL CONCRETE SUPPLY CO., INC.

MAIN OFFICE:
755 Stockton Avenue,
San Jose, CA 95126
1-866-404-1000

TICKET NUMBER

18852196

WARNING: IRRITATION TO THE SKIN AND EYES: Contains Portland Cement. Wear rubber boots and gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

CONCRETE IS A PERISHABLE COMMODITY AND BECOMES THE PROPERTY OF THE PURCHASER UPON LEAVING THE PLANT. ANY CHANGES OR CANCELLATION OF ORIGINAL INSTRUCTIONS MUST BE TELEPHONED TO THE OFFICE BEFORE LOADING STARTS.

WE DO NOT GUARANTEE FINISHED RESULTS OBTAINED FROM THIS LOAD OF CONCRETE AS MANY IMPORTANT FACTORS AFFECTING THE ULTIMATE QUALITY OF THE COMPLETED JOB ARE OUT OF OUR CONTROL. We do not warrant that the concrete can be used in any particular environment or soil conditions or that the concrete is fit for any particular use. Selection of the mix design and/or specification of the mix design parameters are solely the responsibility of the Customer, and we assume no liability therefore.

PLEASE NOTE: THIS LOAD OF CONCRETE IS PRODUCED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR READY MIX CONCRETE ASTM. ANY DE-ICING MATERIALS, IMPROPER FINISHING AND LACK OF CURING WILL CAUSE DAMAGE OR A DECREASE IN STRENGTH.

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE POURING.

LOAD RECEIVED BY:

X ______________________

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED. X ______________________

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

WATER ADDED AT CUSTOMER REQUEST
EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE

X ______________________
REQUESTOR'S NAME

SA

FULL LOAD	¾ LOAD	½ LOAD	¼ LOAD
(GALLONS)	(GALLONS)	(GALLONS)	(GALLONS)

TEST RESULTS

SLUMP	CONC. TEMP.	AIR%

CYLINDERS TAKEN ☐ YES ☐ NO

NAME OF TESTING LAB

CUSTOMER	CUSTOMER CODE	DELIVERY ADDRESS
MRC ENVIRONMENTAL SERVICES	[illegible]	3600 [illegible] AVE, OAKLAND
PROJECT NAME	PROJECT CODE	

CUSTOMER P.O. #

CUSTOMER JOB ID #

SPECIAL INSTRUCTIONS
C/S FRUITVALE AVE. / PUT FIBERS IN @ END OF LOADING PROCESS...
[illegible] ON JOB ////////

RETURNED CONCRETE

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
7.00	yd 65	65	1701C5C	7.5 SK AGG W/ WR		
52.50	ea 0	487.5	RFIBER6	FORTA-FERRO FIBERS 7.5		
5.00	ea 0		EFUEL06	FUEL06 *2006 FUEL SUR		
5.00	ea 0		FENV12	964 *ENVIRONMENTAL		
* YD = CUBIC YARD				930 *SHORTLOAD		

BATCH TIME	LEAVE PLANT	ARRIVE JOB	BEGIN POUR	FINISH POUR	LEAVE JOB	ARRIVE AT PLANT	USAGE CODE	SUB TOTAL
14:13								

TOTAL WAIT TIME	PREVIOUS TRUCK	LOAD #	SLUMP	MAP PAGE	TIME DUE ON JOB	TAX RATE	TAX
	1256	7	4	–	14:44		

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	ORDER GRAND TOTAL	TOTAL
07/01/14	1309	12	1254	RUGERS, DONIEL		

DRUM REV - AT PLANT	DRUM REV - START	DRUM REV - FINISH	DEPUTY WEIGHMASTER
			Robert Jansen Weighat2400PeraltaSt,Oakland,CA

WEIGHMASTER CERTIFICATE #
13259219

Appendix 9: Photographs

Figure 1: Ex C Prior to Hi-Vac Removal

Figure 2: Ex C Pothole

Figure 3: Ex C Dewatering Pothole

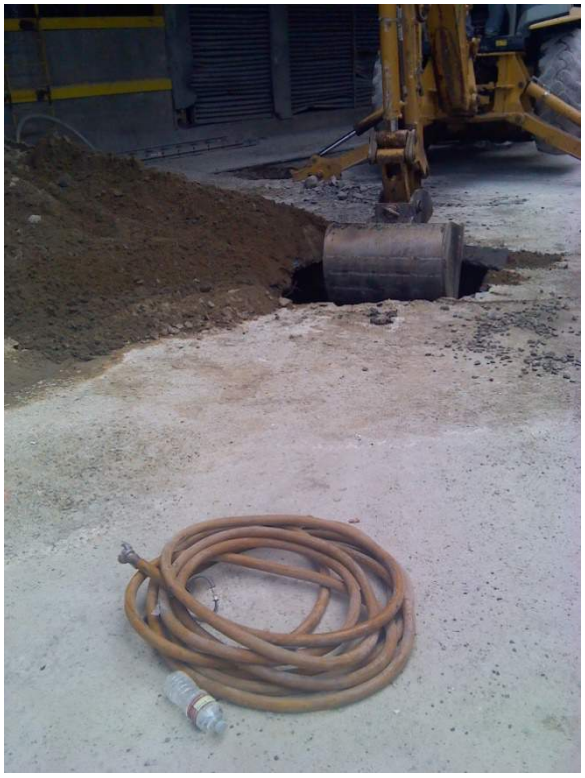

Figure 4: Backfilling Pothole

Figure 5: Removing Asphalt Surface

Figure 6: Removing RR Tracks

Figure 7: Saw-cutting RR Bolts

Figure 8: Beginning Excavation @ Ex C

Figure 9: Dead Pipelines @ Ex C

Figure 10: Placing Shoring @ Ex C

Figure 11: Shoring @ Ex C

Figure 12: Bottom of Ex C

Figure 13: Ramp into Ex C

Figure 14: Compacting Backfill @ Ex C

Figure 15: Backfill Compaction Completed @ Ex C

Figure 16: Compaction Tests @ Ex C

Figure 17: Aggregate Base Compacted @ Ex C

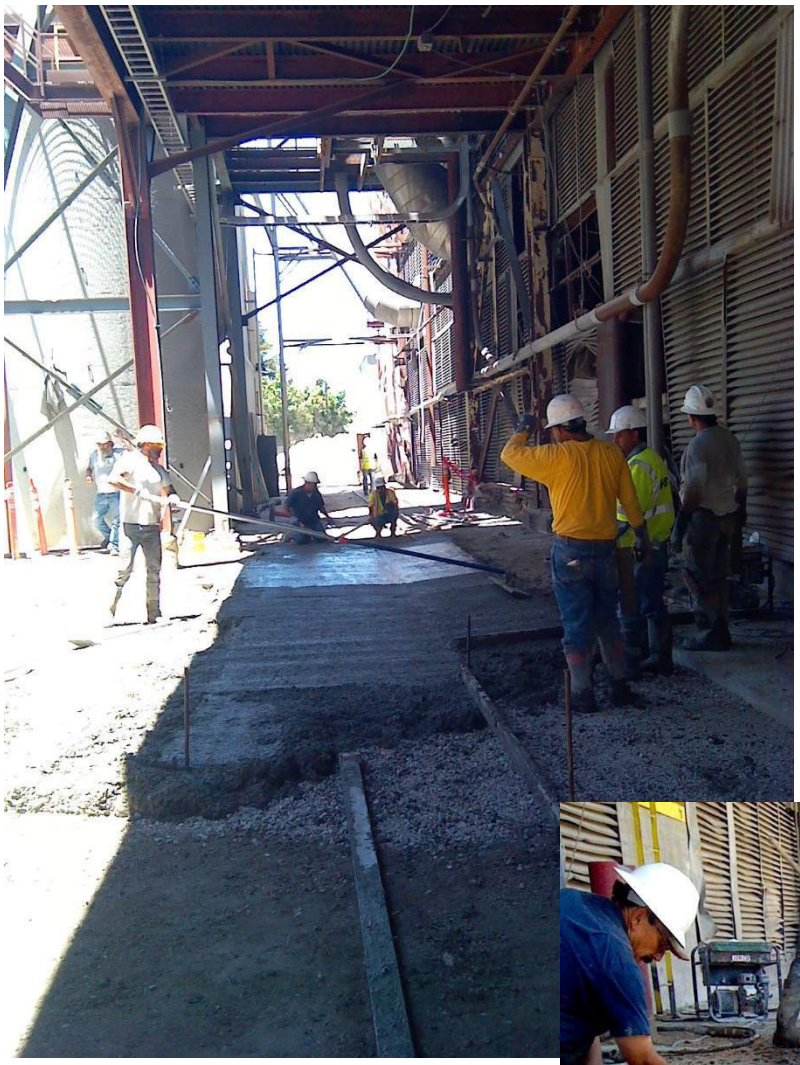

Figure 18: Concrete Pour @ Ex C

Figure 19: Concrete Pour @ Ex C

Figure 20: Finishing Touches @ Ex C

Figure 21: Ex E Prior to Excavation

Figure 22: Exposed water pipe @ Ex E

Figure 23: Tar-like Residuals on Water Pipe @ Ex E

Figure 24: Side of Ex E

Figure 25: Bottom of Ex E

Figure 26: Pouring ORC @ Ex E

Figure 27: Laying Drainage Rock @ Ex E

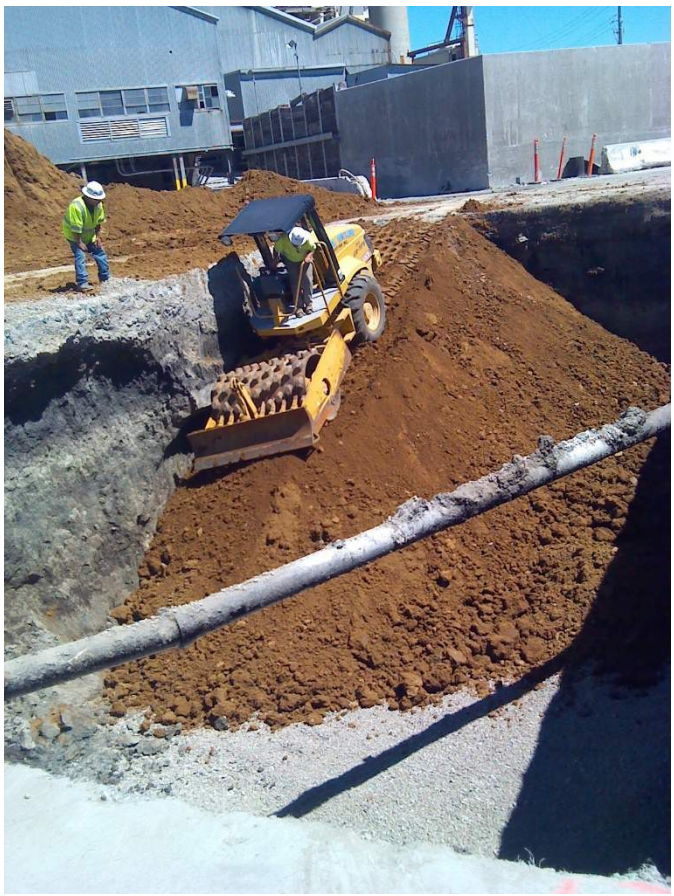

Figure 28: Backfill Ramp Into Ex E

Figure 29: Dewatering Ex E

Figure 30: Dewatering Ex E

Figure 31: Sawcutting Water Pipe @ Ex E

Figure 32: Removed Water Pipe @ Ex E

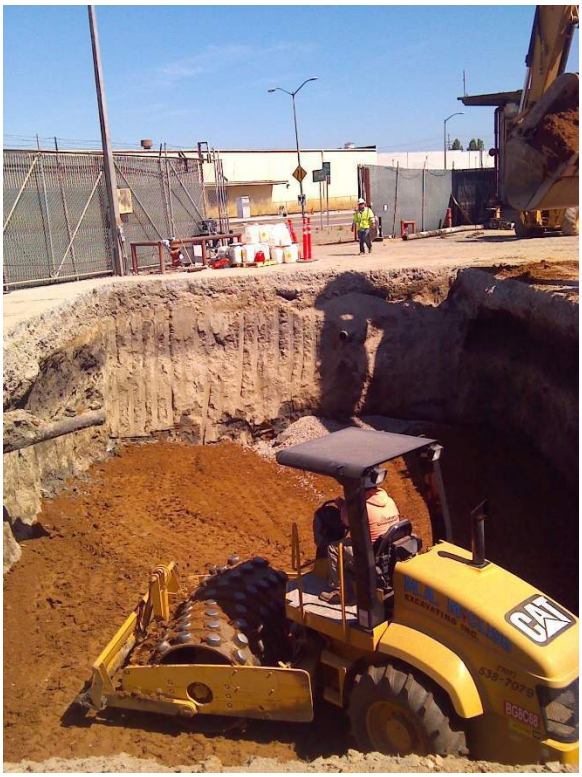

Figure 33: Compacting Backfill @ Ex E

Figure 34: Compaction Test @ Ex E

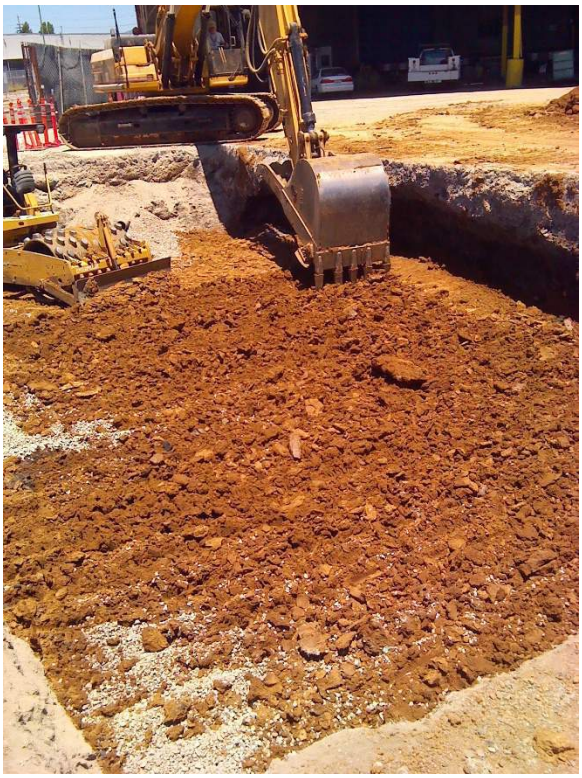

Figure 35: Scraping Backfill Lift @ Ex E

Figure 36: Drilling Dowel Holes @ Ex E

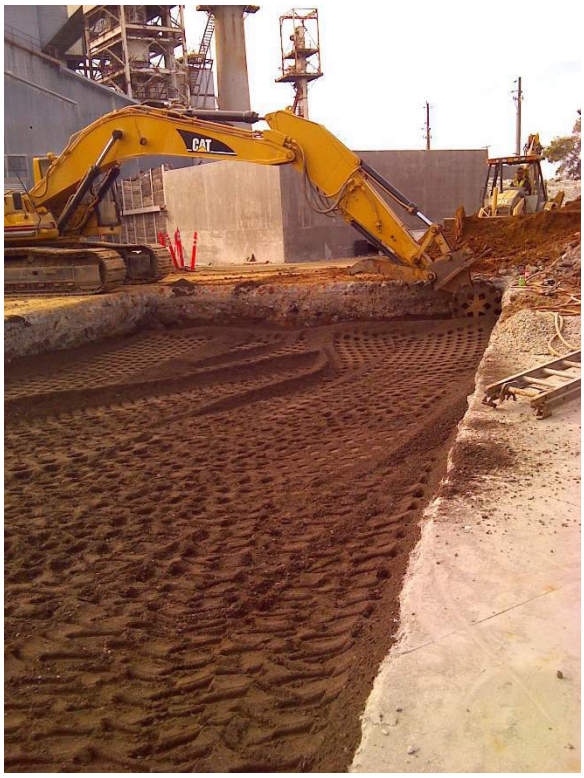

Figure 37: Aggregate Base Compaction @ Ex E

Figure 38: Aggregate Base Compaction Test Locations @ Ex E

Figure 39: Aggregate Base Compaction Tests @ Ex E

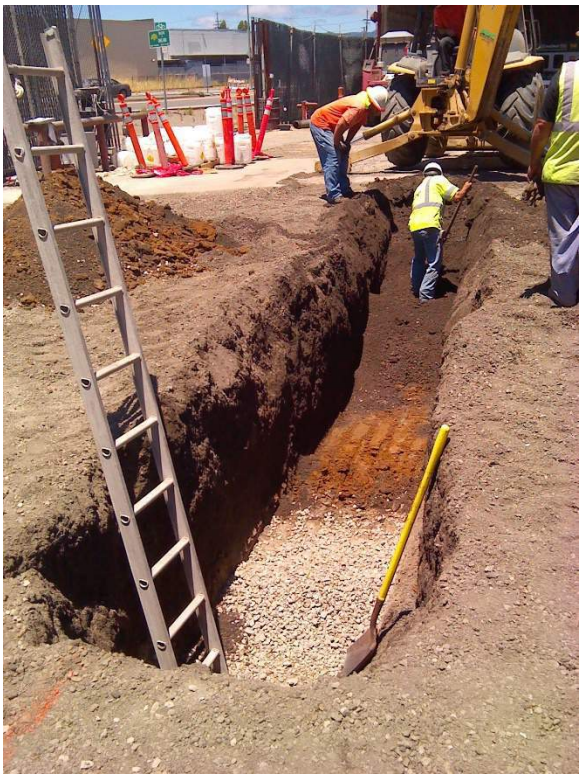

Figure 40: Water Pipe Trench @ Ex E

Figure 41: Sleeve Coupling for Water Pipe @ Ex E

Figure 42: Replaced Water Pipe @ Ex E

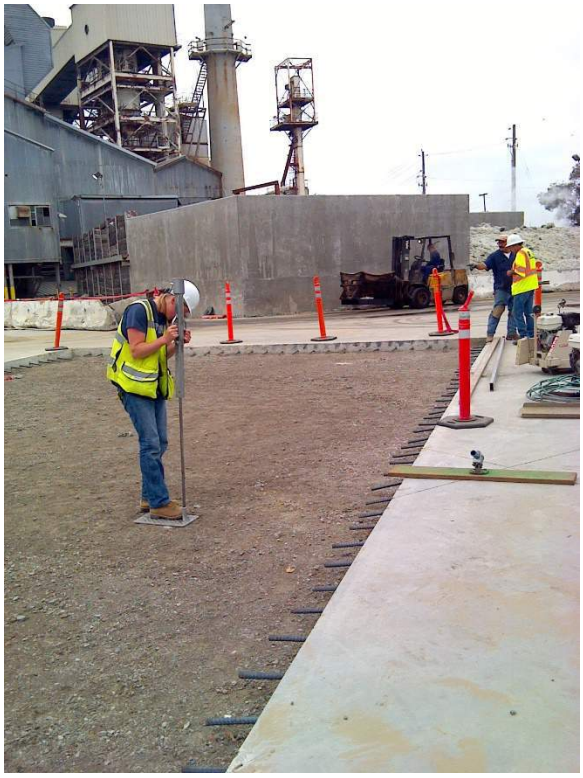

Figure 43: Trench Backfill Compaction Test @ Ex E

Figure 44: Saw-cut @ Ex E

Figure 45: Concrete Pour @ Ex E

Figure 46: Concrete Resurfacing @ Ex E

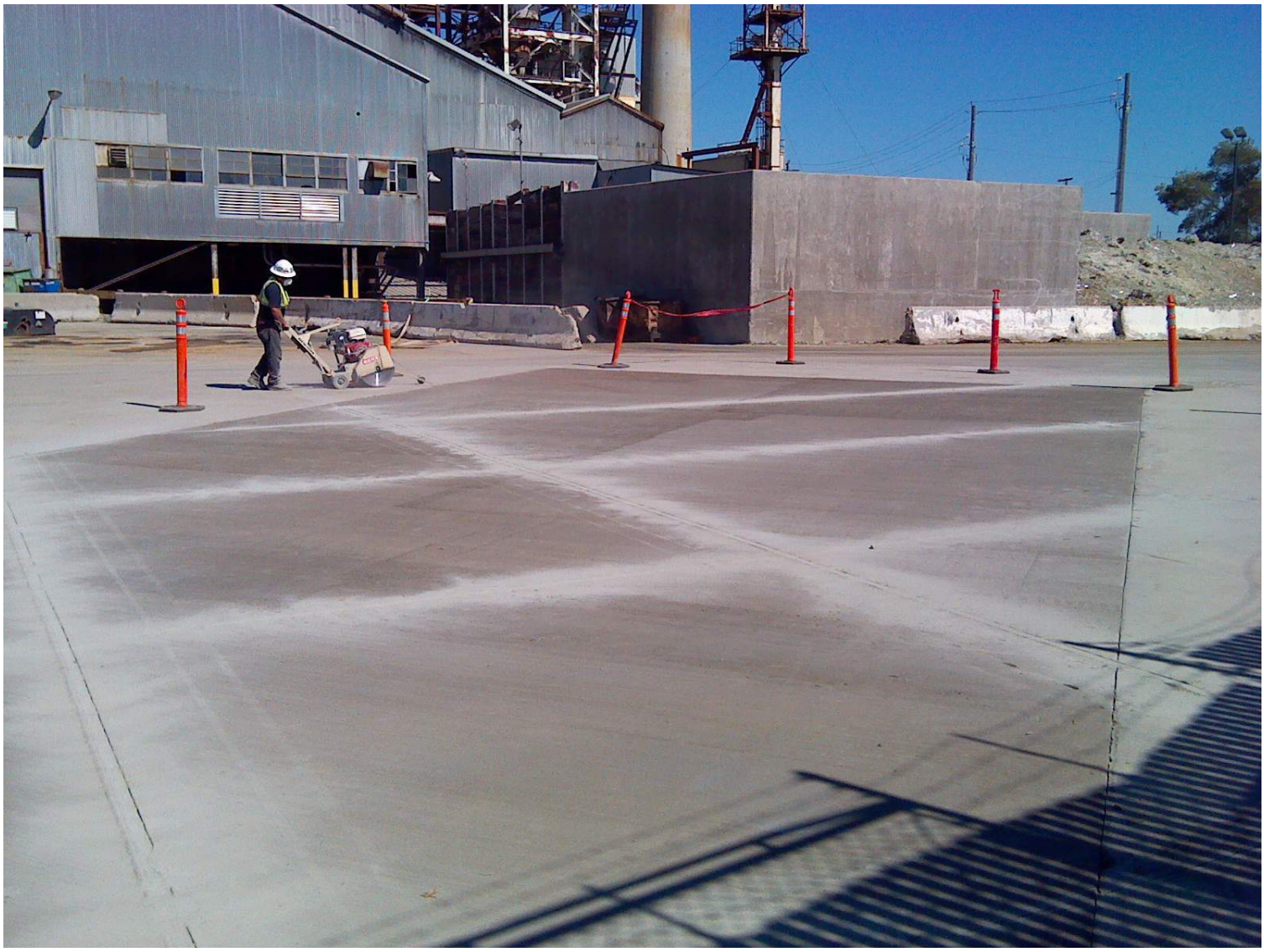

Figure 47: Finishing Touches @ Ex E

Appendix 10: Landfill Disposal Records

AREA E DIRECT

CHANGE ORDER 1

Customer Summary Report
Criteria: 06/17/2014 12:00 AM to 06/26/2014 11:59 PM
Business Unit Name: Altamont Landfill & Resource Recovery Facility - 504305 (USA)
User: tvierra
Date: Jun 26 2014, 9:56:47 AM - Central Standard Time
Operation Type: All
Customer Name: All
Ticket Type: All
Customer Type: All
PMT Category: All
Profile: 618135CA

Ticket Date	Ticket ID	Manifest	Truck	Tons
6/17/2014	1042696	83886-eb-02	9e98601	19.56
6/17/2014	1042700	83886-eb-01	9D95172	13.02
6/17/2014	1042703	83886-eb-03	7m50287	17.91
6/17/2014	1042704	83886-eb-04	9e12294	22.1
6/17/2014	1042705	83886-eb-05	6M49733WT	19.52
6/17/2014	1042707	83996-eb-06	9B80765WT	20.43
6/17/2014	1042713	83886-eb-07	9b69932	20.73
6/17/2014	1042734	83886-eb-08	9b58789	18.21
6/17/2014	1042748	83886-eb-10	9d10197	19
6/17/2014	1042752	83886-eb-09	9C33196	15.03
6/17/2014	1042759	83886-eb-12	9f02624	16.06
6/17/2014	1042760	83886-eb-11	9d83200	18.56
6/17/2014	1042761	83886-eb-13	9e98601	20.09
6/17/2014	1042765	83886-eb-14	9d10196	19.81
6/17/2014	1042768	83886-eb-15	7m50287	19.57
6/17/2014	1042769	83886-eb-16	9e12294	24.17
6/17/2014	1042772	83886-eb-17	9B80765WT	20.13
6/17/2014	1042781	83886-eb-18	9D95172	20.37
6/17/2014	1042790	83889-eb-20	9d10197	25.49
6/17/2014	1042791	83886-eb-19	9b58789	22.75
6/17/2014	1042804	83886-eb-21	9C33196	17.03
6/17/2014	1042806	83886-eb-23	9e98601	20.92
6/17/2014	1042815	83886-EB-22	9D67290	23.74
6/17/2014	1042816	83886-EB-24	9d10196	19.23
6/17/2014	1042817	83886-EB-25	9e12294	20.33
6/17/2014	1042818	83886-EB-26	7m50287	21.59
6/17/2014	1042821	83886-EB-27	9d83200	18.97
6/17/2014	1042822	83886-EB-28	9f02624	18.01
6/17/2014	1042824	83886-EB-30	9b94589	23.12
6/17/2014	1042832	83886-EB-29	9B80765WT	20.53
6/17/2014	1042833	83886-EB-31	9D95172	18.86
6/17/2014	1042835	83886-EB-32	9d10197	19.71

6/17/2014	1042856	83886-EB-33	9b58789	20.02
6/17/2014	1042869	83886-EB-34	9e98601	21.89
6/17/2014	1042873	83886-EB-36	9D67290	22.52
6/17/2014	1042874	83886-EB-37	9d10196	21.57
6/17/2014	1042875	83886-EB-38	7m50287	19.59
6/17/2014	1042880	83886-EB-35	9C33196	15.82
6/17/2014	1042881	838896-EB-39	9e12294	23.27
6/17/2014	1042882	83886-EB-41	9b94589	25.42
6/17/2014	1042885	83886-EB-42	9d83200	21.81
6/17/2014	1042889	83886-EB-40	9f02624	20.68
6/17/2014	1042890	83886-eb-43	9D95172	20.51
6/18/2014	1042902	83886-eb 46	9e98601	20.71
6/18/2014	1042904	83886-eb-44	9B80765WT	22.38
6/18/2014	1042908	83886-eb-45	9b58789	21.74
6/18/2014	1042909	83886-eb-47	9d10197	21.1
6/18/2014	1042911	83886-eb 49	7m50287	23.59
6/18/2014	1042912	83886-eb-48	9e12294	24.41
6/18/2014	1042913	83886-eb-50	9D95172	21.15
6/18/2014	1042916	83886-eb-51	9d10196	21.25
6/18/2014	1042918	83886-ed-52	9E36439	24.73
6/18/2014	1042919	83886-eb-53	9D00172-SS164	23.53
6/18/2014	1042933	83886-eb S6	7f84519	25.07
6/18/2014	1042934	83886-eb-54	9E04434	23.08
6/18/2014	1042936	83886-eb-55	9e98601	22.27
6/18/2014	1042944	83886-eb-58	9B80765WT	22.04
6/18/2014	1042955	83886-eb-57	9d64281	23.47
6/18/2014	1042967	83886-eb-59	9d10197	22.53
6/18/2014	1042972	83886-eb-61	9b75249	20.42
6/18/2014	1042978	83886-eb-60	9b58789	21.68
6/18/2014	1042981	83886-eb-62	9e12294	21.93
6/18/2014	1042982	83886-eb-63	7m50287	21.86
6/18/2014	1042984	83886-eb-65	9d10196	26.14
6/18/2014	1042988	83886-eb-66	9D00172-SS164	25.34
6/18/2014	1042992	83886-eb-64	9D95172	17.91
6/18/2014	1042994	83886-eb-67	7f84519	24.99
6/18/2014	1042998	83886-eb-68	9e98601	25.2
6/18/2014	1043005	83886-eb-69	9E04434	22.68
Material Total	69			1458.85
Customer Total	69			1458.85
Ticket Totals	69			1458.85

Customer Summary Report

Criteria: 06/17/2014 12:00 AM to 06/26/2014 11:59 PM

Business Unit Name: Altamont Landfill & Resource Recovery Facility - S04305 (USA)

User: tvierra
Date: Jun 26 2014, 9:56:47 AM - Central Standard Time
Operation Type: All
Customer Name: All
Ticket Type: All
Customer Type: All
PMT Category: All
Profile: 618135CA

Internal Customer	Loads

Customer Summary Report
Criteria: 06/17/2014 12:00 AM to 06/26/2014 11:59 PM
Business Unit Name: Altamont Landfill & Resource Recovery Facility - S04305 (USA)
User: tvierra
Date: Jun 26 2014, 9:56:47 AM - Central Standard Time
Operation Type: All
Customer Name: All
Ticket Type: All
Customer Type: All
PMT Category: All
Profile: 618135CA

External Customer	Loads
NRC ENVIRONMENTAL SERVICES	69

AREA E COVER
B.O ITEM 9A

Customer Summary Report
Criteria: 06/17/2014 12:00 AM to 06/26/2014 11:59 PM
Business Unit Name: Altamont Landfill & Resource Recovery Facility - S04305 (USA)
User: tvierra
Date: Jun 26 2014, 9:53:47 AM - Central Standard Time
Operation Type: All
Customer Name: All
Ticket Type: All
Customer Type: All
PMT Category: All
Profile: 618134CA

Ticket Date	Ticket ID	Truck	Tons
6/17/2014	1042690	9d10197	22.63
6/17/2014	1042691	9d83200	19.49
6/17/2014	1042695	9f02624	18 33
6/17/2014	1042699	9d10196	20.58
Material Total	4		81.03
Customer Total	4		81.03
Ticket Totals	4		81.03

Customer Summary Report
Criteria: 06/17/2014 12:00 AM to 06/26/2014 11:59 PM
Business Unit Name: Altamont Landfill & Resource Recovery Facility - S04305 (USA)
User: tvierra
Date: Jun 26 2014, 9:53:47 AM - Central Standard Time
Operation Type: All
Customer Name: All
Ticket Type: All
Customer Type: All
PMT Category: All
Profile: 618134CA

Internal Customer	Loads

Customer Summary Report
Criteria: 06/17/2014 12:00 AM to 06/26/2014 11:59 PM
Business Unit Name: Altamont Landfill & Resource Recovery Facility - S04305 (USA)
User: tvierra
Date: Jun 26 2014, 9:53:47 AM - Central Standard Time
Operation Type: All
Customer Name: All
Ticket Type: All
Customer Type: All
PMT Category: All
Profile: 618134CA

External Customer	Loads

NRC ENVIRONMENTAL SERVICES	4

AREA C COVER
BD ITEM 3A

Customer Summary Report
Criteria: 06/17/2014 12:00 AM to 06/26/2014 11:59 PM
Business Unit Name: Altamont Landfill & Resource Recovery Facility - S04305 (USA)
User: tvierra
Date: Jun 26 2014, 9:58:28 AM - Central Standard Time
Operation Type: All
Customer Name: All
Ticket Type: All
Customer Type: All
PMT Category: All
Profile: 618211CA

Ticket Date	Ticket ID	Manifest	Truck	Tons
6/24/2014	1043690	na	9D00172-SS164	22.27
6/24/2014	1043720	83886-ct-02	69531j1	19.82
6/24/2014	1043724	83886-ct-03	8X62738	29.07
6/24/2014	1043762	83886-ct-04	9D00172-SS164	26.56
6/24/2014	1043780	83886-ct-06	69531j1	24.41
6/24/2014	1043786	838886-05	8X62738	28.71
6/24/2014	1043801	83886-ct-07	9D00172-SS164	21.08
6/24/2014	1043824	83886-ct-08	69531j1	18.43
6/24/2014	1043834	83886-ct-09	8X62738	28.44
6/25/2014	1043874	83888-ct-010	9D00172-SS164	26.69
6/25/2014	1043882	83888-ct-011	9b58789	23.95
6/25/2014	1043898	83886-ct-012	9d83396	21.9
6/25/2014	1043931	83886-ct-013	9D00172-SS164	23.12
6/25/2014	1043942	83886-ct-014	9b58789	20.16
6/25/2014	1043960	86886-ct-016	9d83396	20.61
6/25/2014	1043988	83886ct017	9D00172-SS164	22.42
6/25/2014	1043993	83886-ct-015	9b58789	23.39
6/25/2014	1043995	83886-ct-018	9d83396	23.64
Material Total	18			424.67
6/20/2014	1043392		NONE	0
Material Total	1			0
Customer Total	19			424.67
Ticket Totals	19			424.67

Customer Summary Report
Criteria: 06/17/2014 12:00 AM to 06/26/2014 11:59 PM
Business Unit Name: Altamont Landfill & Resource Recovery Facility - S04305 (USA)
User: tvierra
Date: Jun 26 2014, 9:58:28 AM - Central Standard Time
Operation Type: All
Customer Name: All
Ticket Type: All

Customer Type: All
PMT Category: All
Profile: 618211CA

Internal Customer	Loads

Customer Summary Report
Criteria: 06/17/2014 12:00 AM to 06/26/2014 11:59 PM
Business Unit Name: Altamont Landfill & Resource Recovery Facility - S04305 (USA)
User: tvierra
Date: Jun 26 2014, 9:58:28 AM - Central Standard Time
Operation Type: All
Customer Name: All
Ticket Type: All
Customer Type: All
PMT Category: All
Profile: 618211CA

External Customer	Loads
NRC ENVIRONMENTAL SERVICES	19

Customer Summary Report
Criteria: 06/26/2014 12:00 AM to 06/26/2014 11:59 PM
Business Unit Name: Altamont Landfill & Resource Recovery Facility - S04305 (USA)
User: tvierra
Date: Jun 26 2014, 6:22:55 PM - Central Standard Time
Operation Type: All
Customer Name: All
Ticket Type: All
Customer Type: All
PMT Category: All
Profile: 618211CA

Ticket Date	Ticket ID	Manifest	Truck	Tons
6/26/2014	1044053	82886-ct-020	9D00172-SS164	20.87
6/26/2014	1044152	83886-ct-019	9D00172-SS164	15.29
Material Total	2			36.16
Customer Total	2			36.16
Ticket Totals	2			36.16

External Customer	Loads
NRC ENVIRONMENTAL SERVICES	2