# Andy Saberi 1045 Airport Boulevard South San Francisco, CA 94080

# RECEIVED

By Alameda County Environmental Health 1:25 pm, May 03, 2016

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

Re: 1230 14<sup>th</sup> Street, Oakland, California ACEH Case No. 433

Dear Mr. Wickham:

I, Mr. Andy Saberi, have retained Pangea Environmental Services, Inc. (Pangea) as an environmental consultant for the project referenced above. Pangea is submitting the attached report on my behalf.

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

If you have any questions, please call me at (650) 588-3088.

Sincerely,

Andy Saberi



April 12, 2016

VIA ALAMEDA COUNTY FTP SITE

Ms. Dilan Roe, Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

#### Re: **Soil Excavation Report** Former Shell Service Station 1230 14<sup>th</sup> Street Oakland, California Fuel Leak Case No. RO0000433

Dear Ms. Roe:

On behalf of property owner Andy Saberi, Pangea Environmental Services, Inc., (Pangea) has prepared this *Soil Excavation Report* for the subject site. This report describes soil excavation conducted in accordance with the approved July 28, 2015 *Workplan for Soil Excavation* (Workplan). The Workplan was approved in an Alameda County Environmental Health (ACEH) letter dated August 3, 2015.

Excavation conducted in November 2015 involved the offsite disposal of 684.6 tons of hydrocarbonimpacted soil. The excavation area was expanded with agency approval based on elevated benzene concentrations (up to 34 mg/kg) in encountered soil. To control cost, overburden soil was reused with agency approval, and an open cut excavation plan and slurry wall were used to avoid costly structural shoring.

Consistent with agency correspondence regarding excavation observations and data, this report presents recommendations for future work to help facilitate case closure. Pangea proposes soil borings adjacent north and northwest of the former USTs to address this data gap. If you have any questions or comments, please call me at (510) 435-8664.

Sincerely, Pangea Environmental Services, Inc.

Bob Clark-Riddell, P.E. Principal Engineer

Enclosures: Soil Excavation Report

cc: Andy Saberi (electronic copy) Perry Pineda, Shell Oil Products US (electronic copy) SWRCB Geotracker (electronic copy)

### **PANGEA Environmental Services, Inc.**



# SOIL EXCAVATION REPORT

Former Shell Service Station 1230 14<sup>th</sup> Street Oakland, California Fuel Leak Case No. RO0000433

April 12, 2016

Prepared for:

Andy Saberi 1045 Airport Boulevard South San Francisco, California 94080

Prepared by:

Pangea Environmental Services, Inc. 1710 Franklin Street, Suite 200 Oakland, California 94612

Written by:



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Morgan Gillies Project Manager

Bob Clark-Riddell, P.E. Principal Engineer

### **PANGEA Environmental Services, Inc.**

### INTRODUCTION

On behalf of property owner Andy Saberi, Pangea Environmental Services, Inc., (Pangea) has prepared this *Soil Excavation Report* for the subject site. This report describes soil excavation conducted in accordance with the approved July 28, 2015 *Workplan for Soil Excavation* (Workplan). The Workplan was approved in an Alameda County Environmental Health (ACEH) letter dated August 3, 2015 (Appendix A).

Excavation conducted in November 2015 involved the offsite disposal of 684.6 tons of hydrocarbonimpacted soil. The excavation area was expanded with agency approval based on elevated benzene concentrations (up to 34 mg/kg) in encountered soil. To control cost, overburden soil was reused with agency approval, and an open cut excavation plan and slurry wall were used to avoid costly structural shoring. Described below are the site background, soil excavation procedures, soil analytical results, proposed data gap investigation, and conclusions and recommendations.

Consistent with agency correspondence regarding excavation observations and data, this report presents recommendations for future work to help facilitate case closure. Pangea proposes soil borings adjacent north and northwest of the former USTs to address this data gap.

### SITE BACKGROUND

The former Shell-branded service station is located at the northeast corner of 14th Street and Union Street in Oakland, California (Figure 1). Currently, an abandoned one-story station building and a pump-island canopy occupy the site, and much of the property is paved except for the former UST excavation. Land use in the surrounding area is currently residential to the north, south, and east, and is commercial/industrial to the west and southwest. The site topography is essentially flat.

### Site History

According to prior reports, the current site building was constructed in 1958 and gas station operations at the site reportedly began in 1958 and ceased in 1993. Petroleum hydrocarbons were first discovered in site soil near the underground storage tanks (USTs) during the completion of three borings at the site in February 1991. Four gasoline USTs and one waste oil storage tank were removed from the site on August 24, 1993. The current property owner, Mr. Andy Saberi, purchased the property in the mid 1980s.

#### **Previous Environmental Work**

Previous environmental work has included site assessment, a sensitive receptor evaluation/well survey, risk evaluation, two rounds of feasibility testing (in 2000 and 2006), and several remedial actions. Remedial action included injection of oxygen releasing compound (ORC) into site wells in 1997, groundwater extraction (GWE) and dual-phase extraction (DPE) from 2002 to 2004 (performed with mobile equipment for approximately 11 separate days removing 6.0 lbs aqueous phase and 5.6 lbs vapor phase hydrocarbons), and hydrogen peroxide injection into site wells in 2003. Groundwater monitoring has been performed at the site since 1996.

In January 2008, Pangea submitted a *Draft Corrective Action Plan and Pilot Test Work Plan* (Draft CAP/Test Workplan) as required by Alameda County Environmental Health (ACEH). In June 2008, with ACEH approval, Pangea installed new remediation test wells, repaired damaged remediation wells, and destroyed one remediation well, as detailed in the *Well Installation and Destruction Report* dated October 6, 2008. In early July 2008, Pangea conducted the approved pilot testing using the newly installed remediation test wells to determine whether SVE or DPE would most effectively remove contaminants and capture hydrocarbon vapors resulting from air sparging. In the *SVE/DPE Pilot Test Report* dated October 7, 2008, Pangea recommended DPE/AS as the most effective remedial approach for the site. In a letter dated October 29, 2008, ACEH approved implementation of DPE/AS remediation at the site. On June 15, 2009, the California UST Cleanup Fund completed a 5-year review of the claim and recommended implementation of site remediation. DPE remediation system operation started in April 2011 and AS system operation commenced in October 2011.

To enhance DPE/AS remedial effectiveness, Pangea began pilot testing bio-organic catalyst (BOC) injection in select site wells. The pilot testing was performed as detailed in the *Workplan for Enhanced Site Remediation* dated March 6, 2012, and as approved by the ACEH in a letter dated April 17, 2012. In a letter dated September 10, 2012, ACEH rescinded their BOC pilot test approval due to concerns about offsite migration of site contaminants. On September 25, 2012, Pangea submitted the *Groundwater Monitoring and Remediation Report – First Half 2012*, which described Pangea's efforts to demonstrate control of any hydrocarbon migration initiated by desorption effects of BOC. Continued implementation of enhanced site remediation using BOC was approved by ACEH in a letter dated October 8, 2012. Site remediation was temporarily discontinued on February 15, 2013 to conduct post-remediation groundwater monitoring.

Soil and soil gas sampling was conducted at six locations to evaluate conditions after in situ remediation. As described in the *Soil and Soil Gas Sampling Report* dated April 7, 2015, soil boring SG-6 contained TPHg, TPHd, and naphthalene concentrations in *soil* exceeding applicable ESLs for commercial (and residential) site use. (The detected naphthalene concentration of 11 mg/Kg also exceeded the LTCP criteria for direct contact and outdoor air for residential site use). Additionally, *soil gas* contaminant concentrations in probe

SG-6 exceeded RWQCB ESLs for commercial and residential site use. Soil and soil gas results are summarized on Tables 1 and 2, respectively. This soil and soil gas information indicates that residual impact exceeds select agency screening levels at location SG-6. This impact could pose a risk to human health via direct exposure or potential vapor intrusion into future site buildings. To target residual hydrocarbon impact near SG-6 and the former southern dispenser, Pangea proposed limited soil excavation to target shallow soil impact.

#### SOIL EXCAVATION PROCEDURES

This section describes an excavation overview, excavation preparation, excavation activities, and soil disposal. Pangea contracted Sustainable Technologies (ST) of Alameda, California to perform the site excavation. Belshire Environmental Services of Forrest Hills, California was contracted to transport and dispose of impacted soil. Pangea observed the excavation, performed soil compliance sampling, and assisted with offsite soil disposal.

#### **Excavation Overview**

The excavation extent, delineation sampling locations, and analytical data are shown on Figures 2, 3 and 4. Excavation was performed to remove secondary source area hydrocarbons and help facilitate case closure. Site remediation included the excavation and offsite disposal of 684.6 tons of hydrocarbon-impacted soil in November 2015. The excavation initially targeted elevated soil impact and soil gas impact detected in boring/soil gas probe SG-6 under the southern dispenser island. Based on laboratory data, the excavation was expanded per agency direction (Appendix A) to target elevated soil impact under the northern dispenser island where up to 34 mg/kg benzene was found in site soil. The excavation involved the offsite disposal of 684.6 tons of hydrocarbon-impacted soil. Elevated hydrocarbon impact observed during site excavation near former remediation wells suggests that the site's fine sand soil impeded the effectiveness of prior insitu remedial techniques.

Excavation commenced on November 11, 2015. Additional excavation was performed on November 12, 16 through 21, 23 and 25, 2015. Some additional effort was required to complete the expanded excavation immediately prior to forecast rain, helping avoid additional costs and sediment run-off associated with wet weather excavation.

For cost control purposes, the excavation goal was to remove significant hydrocarbon source material without using costly structural shoring techniques and without significant 'chasing' of hydrocarbon impact beyond the initial planned excavation extent. Pangea employed several techniques to help control excavation cost. Initial soil sampling in advance of excavation allowed soil profiling with appropriate landfills and direct loading of soil for offhaul, as appropriate. Additional soil exploration was conducted by the excavation

contractor to help guide expansion of the excavation prior to soil removal. Shallow overburden with limited hydrocarbon impact was reused with agency approval. And an open cut excavation plan was used to avoid costly structural shoring. A slurry wall was successfully used to provide shoring along the adjacent street to avoid more costly shoring techniques.

The initial planned excavation extent is shown on Figure 2. Excavation delineation sampling locations are shown on Figure 3. The excavation was expanded to the north, south and east based on elevated laboratory analytical results detected in site soil. The completed excavation extent and depth is shown on Figure 4. The final excavation depth was approximately 15 ft bgs. Photographs of the excavation activities are included in Appendix C.

The approved Excavation Workplan referenced the following RWQCB Environmental Screening Levels (ESLs) for possible additional soil excavation: 100 mg/kg TPHg, 100 mg/kg TPHd, and 0.044 mg/kg benzene, and 1.2 mg/kg naphthalene. Pangea subsequently proposed modified cleanup goals based on RWQCB ESLs protective of human health (including 770 mg/kg TPHg and 0.74 mg/kg benzene). Mr. Wickham of ACEH approved modified cleanup goals in an email dated November 16, 2015 (Appendix A).

## **Excavation Preparation**

**Permitting:** Pangea obtained approval from the City of Oakland on October 26, 2015 following permit application revisions and several meetings. The City required engineering drawings from a structural engineer, a truck traffic plan, a storm water pollution prevention plan and a soil management plan. Permit information and open cut excavation plan drawings from the structural engineer are included in Appendix B.

**Line Locating and Security:** Prior to site excavation, the excavation contractor marked the site for underground service alert (USA) and used an underground line locator to clear the planned excavation area. The area was previously secured by a chain-link fence with a combination lock.

**Site Safety Plan and Air Monitoring:** A site safety plan was prepared to protect human health and minimize nuisance to nearby residences/businesses. The air monitoring program involved monitoring of hydrocarbon concentrations in air and a modified construction schedule to mitigate hydrocarbon vapor and dust during windy and/or warmer periods.

**Soil Profiling for Direct Loading:** To provide cost savings for soil handling and disposal, Pangea profiled soil for direct loading and disposal rather than more costly soil stockpiling, sampling, and subsequent loading later. Direct soil loading also helped minimize dust and odor concerns given the close proximity to the surrounding residential neighborhood. The initial soil profiling was conducted using prior data from SG-6-3 and SG-6-6 soil samples, receiving landfill acceptance on October 22, 2015 (before excavation start). During excavation activities, contaminant concentrations in soil higher than the initial profiling samples were

encountered and additional laboratory analyses were required for profiling with the landfill. Pangea used excavation delineation sample results during excavation expansion for the additional soil profiling effort.

**Canopy Removal:** To facilitate excavation around the dispenser island, Pangea coordinated the removal of the former canopy and concrete islands. The permit for canopy removal is included in Appendix B. Sustainable Technologies of Alameda, CA conducted the canopy demolition between August 26 and September 2, 2015.

**Grading and Erosion Control:** ST used grading and erosion control best management practices (BMP) described in the Workplan. ST installed straw wattles around the site and set up silt filters in nearby storm drains. During excavation activities stockpiled soil was covered with plastic when not in use. In addition to the stormwater protections described in the grading permit, on November 19, 2015 the City inspector requested rumble strips to remove soil from truck tires before they leave the site and use of a 'wet' street sweeper to clean the street/site approach after each truck. ST implemented these additional soil control measures beginning November 20, 2015.

## **Excavation Activities**

Excavation field activities were performed primarily between November 11 and 25, 2015. Final site restoration was completed in early December 2015 prior to significant precipitation (0.59") on December 13, 2015.

**Initial Excavation, Initial Delineation Sampling, and Slurry Wall Installation:** On November 11, 2015, excavation commenced with equipment delivery and initial storm water protection set up. To evaluate slope stability and the extent of contamination, limited exploratory excavation was conducted near soil gas probe SG-6. On November 11 and 12, ST excavated two perpendicular trenches centered on soil gas probe SG-6 to help define the lateral and vertical extent of contamination. Fourteen soil samples were collected on November 11 and 12, 2015 to help determine the extent of the excavation to the north, south and west. Exploratory delineation sampling locations are shown on Figure 3. The exploratory excavation was completed to a depth of approximately 17 ft below grade surface (bgs), and no soil sloughing was observed within the excavation sidewalls. Based on the observed soil stability, excavation was conducted without structural shoring to control cost. Consistent with the excavation permit, controlled density fill (CDF) was used along the southern boundary of the excavation to support the excavation was performed with an open cut shoring plan.

**Excavation Expansion Authorization:** As approved by ACEH email dated November 16, 2015 (Appendix A), Pangea expanded the excavation based on analytical results from excavation delineation soil sampling.

**Soil Compliance and Delineation Sampling Procedures:** Pangea Project Manager Morgan Gillies conducted soil compliance sampling on the following dates: November 11, 12, 17 and 25, 2015. To evaluate removal progress, soil compliance samples were collected from the excavation sidewalls and floor in accordance with the approved plan. For sidewall sampling, Pangea collected most soil samples between 9 and 15 ft depth along the sidewall corresponding to the depths of elevated contaminant concentrations detected in nearby soil samples (Figure 4). Pangea also collected shallow soil samples to demonstrate that shallow soil could be reused onsite to help control cost. Soil samples were collected in new stainless steel soil tubes, and sealed on each end with Teflon tape and end caps. Soil designated for sampling was raised to the surface using the excavator bucket or clean hand auger, where the top few inches were removed and a new soil tube was hammered into the relatively undisturbed soil. Compliance sample locations are shown on Figure 4. Sampling was conducted in accordance with Pangea's *Standard Operating Procedures* presented in Appendix D. Analytical results from the compliance sampling are summarized on Table 1.

**Air Monitoring:** The excavation contractor performed air monitoring during excavation activities as shown in the air monitoring report in Appendix D.

**Soil Reuse Authorization:** In an email dated November 12, 2015, Mr. Wickham of ACEH approved reuse of shallow site soil and referenced the San Francisco Bay Region RWQCB's Draft Technical Guidance titled *Characterization and Reuse of Petroleum Hydrocarbon Impacted Soil as Inert Waste* (PHIS) dated October 20, 2006. Pangea estimates 105 cubic yards of shallow site soil from approximately 2 to 5 ft bgs was reused onsite. Based on PHIS guidance specifying one soil analysis for every 25 cubic yards of reused soil, analytical results from the following five soil samples were used to profile shallow soil for reuse: E-2, W-4, SE-3, SW-3 and SG-6-3. As shown on Table 1, no TPHg or BTEX concentrations were detected in these five soil samples used for soil reuse profiling. Soil reuse procedures are described below in the backfill section.

**Well Destruction:** As approved by the ACEH email of November 12, 2015, Pangea coordinated destruction of site monitoring wells within the expanded excavation area and also coordinated destruction of other perimeter site wells to defray driller mobilization costs. The well destruction permits are included in Appendix B. Wells AS-3, AS-5, DP-2, DP-3, DP-4, MW-1, MW-3 and VW/MW-4 were destroyed by pressure grouting. A casing extension was placed over each well to allow collection of displaced groundwater and Portland cement was placed into the well through a tremie pipe positioned at the bottom of the well. After the well was filled with cement, a well cap and a water-tight fitting was attached to the top of the well casing. A minimum of 25 pounds per square inch (psi) of pressure was applied and maintained for five minutes. Then the well box was removed and neat cement was poured into the borehole to a depth of approximately 1 ft below grade surface (bgs) and the surface was restored with soil.

**Expanded Excavation:** Excavation to the south was limited by the adjacent sidewalk/roadway and the extent of contamination was delineated by sample location 14S. On November 17, 2015, the trench adjacent

to Fourteenth Street was excavated to a depth of approximately 15 ft and backfilled with CDF to support the excavation and safeguard the structural integrity of the sidewalk/roadway. To support the CDF backfill and allow thorough curing, soil adjacent the trench near Fourteenth Street remained in place until the final days of excavation.

Additionally on November 17, 2015, Pangea collected soil samples from the north (N, NN and NNN), east (E), southeast (SE) and southwest (SW) portions of the excavation to delineate the extent of contamination in those directions. Samples were collected from multiple locations in the northern direction based on significant hydrocarbon odors and soil staining observed between approximately 10 and 15 ft depth in this direction. As, shown on Figure 4, based on laboratory analytical results the excavation was extended to the north to remove hydrocarbon impacted soil around sample location 12N and N.

On November 19, 2015, a City of Oakland building inspector issued a stop work/correction notice for the site regarding issues related to erosion control, traffic control and providing the City with periodic progress updates. Pangea and ST quickly scheduled a meeting with the City of Oakland Engineer that same day to address the issues and the stop work notice was lifted. On November 19, 21, 23 and 25 the remaining contaminated soil was excavated and loaded into trucks for transport to Recology Hay Road Landfill in Vacaville.

**Final Excavation Extent:** The final excavation extent and depth is illustrated on Figure 4. Soil was excavated to a depth of approximately 15 feet bgs. The northern excavation boundary was approximately 20 feet from the site building.

**Excavation Backfilling:** The trench adjacent to Fourteenth Street was backfilled immediately after excavation with controlled density fill (CDF) to provide shoring adjacent the sidewalk and property boundary. Due to odor and potential stormwater runoff concerns (and storm water BMPs), additional backfilling commenced soon after completion of final excavation and in advance of forecasted significant precipitation. Backfilling was completed primarily on November 23, 24 and 25. The excavation cavity was first backfilled with crushed rock provided by Argent Materials of Oakland, California. A letter from Argent Materials stating that their backfill material was contaminant free is included in Appendix G. The crushed rock was graded and compacted from approximately 15 to 11 feet bgs. The crushed rock was compacted in one or more lifts and covered with geotextile fabric. From approximately 11 to 5 ft bgs, the excavation cavity was backfilled with Class II aggregate base (A/B) material mixed with reused overburden site soil. The A/B material only. Supplier documents indicated the following weight or volume of backfill materials for this site: 134.59 tons crushed rock, 580.85 tons Class II A/B, and 27 cubic yards of CDF slurry (along southern boundary). Pangea estimates that approximately 105 cubic yards of shallow site soil originally

present between approximately 2 and 5 ft bgs was reused onsite. As shown on Table 1, no TPHg or BTEX concentrations were detected in the soil samples used for soil reuse profiling (E-2, W-4, SE-3, SW-3 and SG-6-3). The permeable nature of the crushed rock will allow for additional natural attenuation and insitu biodegradation of residual hydrocarbons. The excavation backfill material was graded to match the existing surface elevation.

**Groundwater Observations:** During the excavation, groundwater was not encountered in the excavation cavity that extended to approximately 15 feet bgs.

**Surface Restoration:** Upon completion of backfill compaction, Pangea coordinated covering of the excavation area with plastic to comply with City of Oakland requirements. Repaving was planned for the excavation area, but is now on hold pending potential future additional soil excavation.

## Soil Disposal

According to waste manifests, a total of 684.6 tons of non-hazardous, petroleum-impacted soil was generated during excavation activities and transported for disposal by various trucking companies to Recology Hay Road Landfill in Vacaville, California. Copies of all waste manifests are located in Appendix F.

### SOIL ANALYTICAL RESULTS

Soil analytical results from excavation compliance sampling are summarized in Table 1. Soil compliance and delineation samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015B, and benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8021B. Samples containing more than 5 mg/kg benzene were analyzed by toxicity characteristic leaching procedure (TCLP) using extraction method SW1311. The laboratory analytical reports are presented in Appendix E.

Soil excavation was directed by ACEH to target secondary source material above applicable screening levels for *soil* and *soil gas*. Table 1 compares *soil* analytical results to the agency-approved ESLs for the proposed excavation (and general ESLs), and to media-specific criteria of the *Low Threat UST Closure Policy* (LTCP) for direct contact and outdoor air exposure. Table 2 compares *soil gas* analytical data from before excavation to ESLs.

Soil analytical results from compliance sampling are summarized on Figure 4. The maximum TPHg and benzene concentrations detected during compliance and delineation sampling were 7,800 mg/kg TPHg (sample S-9.5) and 34 mg/kg benzene (sample N-13). An elevated benzene concentration of 2.1 mg/kg was detected in sample 12N-13. These maximum concentration areas were excavated. The maximum TPHg and benzene concentrations in soil following excavation were 410 mg/kg TPHg (northern excavation extent at 13

ft bgs) and 0.36 mg/kg benzene (near dispensers at 15 ft bgs), which are below the agency-approved ESLs and LTCP criteria. Based on the prior percentage of naphthalene to TPHg in analyzed samples, the estimated maximum naphthalene concentration in residual soil is 2.4 mg/Kg (sample NN at 13 ft bgs).

# PROPOSED DATA GAP INVESTIGATION

Based on soil observations and soil analytical data during soil excavation, Pangea and ACEH discussed possible sources for the hydrocarbons detected under the southern and northern dispenser, and along the western and southern boundary of the former UST complex. A release from the dispensers or USTs could be the source of discovered hydrocarbons. If the hydrocarbons source was a release from the former USTs, Pangea considers the area north and northwest of the former USTs as a potential data gap.

Consistent with discussions with Mr. Wickham and the December 7, 2015 email (Appendix A), Pangea proposes soil borings adjacent to and within the site building to address this data gap. The proposed boring locations are shown on Figure 5. The proposed scope of work to accomplish the investigation objectives is detailed below.

### Task 1 - Pre-Field Activities

Prior to initiating field activities, Pangea will conduct the following tasks:

- Pre-mark the boring locations with white paint, notify Underground Service Alert (USA) of the drilling and sampling activities at least 72 hours before work begins, and conduct private line locating as merited;
- Prepare a site-specific health and safety plan to educate personnel and minimize their exposure to potential hazards related to site activities; and
- Coordinate with drilling and laboratory subcontractors and other involved parties.

## Task 2 – Soil Borings

To evaluate hydrocarbon concentrations in soil north and northwest of the former USTs, Pangea proposes to advance three soil borings and one contingent step-out boring. As shown on Figure 5, Pangea proposes to advance two borings inside the auto repair bays on the eastern side of the building and one boring in front of the western (office and storage) side of the building. A step-out boring is proposed towards the back of the building based on results from the two eastern borings. Pangea proposes advancing the borings to approximately 15 ft bgs for soil samples to help evaluate direct contact and outdoor air criteria of the LTCP. At each boring location, soil samples will be collected approximately every 4 ft below grade surface (bgs) to

assess soil conditions north and northwest of the former USTs. Additional soil samples may be collected if field signs of contamination are observed and/or at lithologic changes. Grab groundwater sampling will be conducted from each boring location.

Pangea will conduct site investigation using hand auger and/or a direct-push sampling rig. If a direct-push sampling rig is used, all borings will first be hand augered to five feet to avoid damaging subsurface utilities. The direct-push sampling rig will be equipped with a hydraulic hammer and steel drive rods to advance the borings to the proposed total depth. With hydraulic-push drilling, continuous soil collection is conducted using acetate liners and samples are typically collected on four foot intervals. Soil samples will be obtained by cutting 6-inch subsections, trimming the excess soil from the ends, and capping the ends with Teflon<sup>®</sup> tape and plastic caps. If hand auger techniques are used, soil samples will be collected within new brass or stainless steel liners driven into undisturbed soil with a slide-hammer. The soil will be classified according to the Unified Soil Classification System (USCS) and screened for field indications of petroleum hydrocarbons using visual and olfactory observations.

All site investigation activities will be performed under the supervision of a California Registered Civil Professional Engineer (P.E.). Additional soil and assessment procedures are presented in our Standard Operating Procedures (SOPs) in Appendix D.

Select soil samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tertiary butyl ether (MTBE) by EPA Method 8015Cm/8021B; and/or naphthalene by EPA Method 8260B.

## CONCLUSIONS AND RECOMMENDATIONS

Based on the above information, Pangea offers the following conclusions and recommendations:

- The excavation and offsite disposal of 684.6 tons of hydrocarbon-impacted soil has provided significant additional removal of secondary source material beneath the former dispensers and west of the former USTs. All soil impact identified above agency-approved ESLs and LTCP criteria during the soil excavation was removed. The elevated hydrocarbon impact close to former remediation wells suggests the fine sand soil impeded the effectiveness of prior insitu remedial techniques. By avoiding costly shoring techniques and minimizing expansion of the planned excavation, soil excavation was performed in a cost effective manner.
- Based on agency discussion about the unknown source of the hydrocarbons found west of the former USTs, Pangea and ACEH considers the area north and northwest of the former USTs as a potential data

gap. To address this data gap, Pangea has proposed soil borings as described above. Additional naphthalene data can be obtained during this data gap investigation, if requested.

- Pangea also recommends performing limited groundwater monitoring of site groundwater wells to evaluate post-excavation site conditions. The most recent groundwater monitoring event was performed in May and July 2014.
- Following the data gap investigation and post-excavation groundwater monitoring, Pangea recommends evaluating this case for closure in accordance with LTCP and other relevant regulatory policy.

# ATTACHMENTS

- Figure 1 Vicinity Map
- Figure 2 Initial Planned Excavation Extent
- Figure 3 Exploratory Delineation Sampling
- Figure 4 Excavation Extent and Analytical Data, November 2015
- Figure 5 Proposed Boring Locations

Table 1 – Soil Analytical Data

Table 2 – Soil Gas Analytical Data

Appendix A – Regulatory Correspondence

Appendix B – Permits & Open Cut Excavation Plan Drawings

Appendix C – Photographs

Appendix D - Air Monitoring Report & Standard Operating Procedures

Appendix E - Laboratory Analytical Reports

Appendix F – Waste Disposal Manifests

Appendix G – Argent Materials Letter



1230 14th Street Oakland, California Vicinity Map





**Planned Excavation Extent** 





**Exploratory Delineation Sampling** November 11, 12 and 17, 2015





Excavation Extent and Analytical Data, November 2015





**Proposed Boring Locations** 

Sample ID	Date	Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	
Commercial FSL drin	nking water	(fbg)	¥ 83	0.044	2.0	<u> </u>	2.3	0.023	2 500	83	
Residential FSL drin	king water		83	0.044	2.9	3.3	2.3	0.023	2,300	83	
Commercial ESL, unin	drinking water		450	0.044	2.9	33	2.3	8.4	2 500	150	
Residential ESL, non	drinking water		430	0.12	29	33	31	8.4	2,500	100	Nataa
Residential ESL Hum	an Health		770	0.12	1 000	18	600	30	10 000	240	Notes
Residential LTCD out	door oir oritorio (0 to	5 ft has);	770	1.0	1,000	4:0	000	57	10,000	240	-
Residential LTCP out	door air criteria (0 to	3 it bgs):		1.9		21					
Commercial LTCP ou	tdoor air critaria (5 to	5  ft hgs		2.0		80					
Commercial LTCP ou	tdoor air criteria (5 to	10  ft bgs		12		13/					
Commercial LTCF ou		10 it 0gs).		12		134					
November 2015 Exca	avation Samples										
E-2	11/11/2015	2	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.050			
E-9	11/17/2015	9	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.050			
E-13	11/17/2015	13	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.050			
W-4	11/11/2015	4	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.050			
12W-10	11/12/2015	10	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.050			
12W-13	11/12/2015	13	3.4	< 0.005	0.0080	< 0.005	< 0.005	< 0.050			
14S-10	11/12/2015	10	46	< 0.005	0.097	0.17	0.48	< 0.050			
14S-12	11/12/2015	12	180	0.19	0.68	2.0	5.6	<1.7			
14S-15	11/12/2015	15	35	0.021	0.13	0.23	0.61	< 0.050			
NNN-3	11/25/2015	3	260	< 0.10	0.46	0.34	12	<1.0		140	
NN-9	11/17/2015	9	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.050			
NN-13	11/17/2015	13	410	< 0.50	0.58	3.2	7.4	<5.0			
NNN-9	11/17/2015	9	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.050			
NNN-13	11/17/2015	13	15	< 0.005	0.039	< 0.005	0.029	< 0.050			
SE-3	11/17/2015	3	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	<0.050			
SE-9	11/17/2015	9	<1.0	< 0.005	< 0.005	<0.005	< 0.005	<0.050			
SW-3	11/17/2015	3	<1.0	<0.005	<0.005	<0.005	<0.005	< 0.050			
SW-9	11/17/2015	9	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.050			
		-									
12N-10	11/11/2015	10	430	< 0.17	0.78	1.9	17	<1.7			Excavated
12N-13	11/12/2015	13	1,400	2.1	8.3	24	110	<2.5			Excavated
12N-15	11/12/2015	15	110	0.36	0.43	1.5	7.4	<1.0			
12N-17	11/12/2015	17	11	0.043	0.077	0.14	0.69	< 0.050			

1000 $1000$ $10000$ $10000$ $2.3$ $0.023$ $2.900$ $83$ Readonal BSL datalog water $83$ $0.044$ $2.9$ $3.3$ $2.3$ $0.023$ $410$ $83$ Readonal BSL datalog water $100$ $0.12$ $2.9$ $3.3$ $100$ $8.4$ $4100$ $100$ Notes           Readonal LTCP outload ar enticit $0.0$ $0.12$ $2.9$ $3.3$ $31$ $8.4$ $410$ $100$ Notes           Readonal LTCP outload ar enticit $0.0$ $0.19$ $   -$ </th <th>Sample ID</th> <th>Date</th> <th>Depth</th> <th>TPHg</th> <th>Benzene</th> <th>Toluene</th> <th>Ethyl-benzene</th> <th>Xylenes</th> <th>MTBE</th> <th>Oil and Grease</th> <th>TPHd</th> <th></th>	Sample ID	Date	Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	
Residential SL, disking water       83       0.044       2.9       3.3       2.3       0.02       4.0       6.0         Commarcial SL, non-disking water       400       0.012       2.9       3.3       1.0       6.4       4.00       1.00       Notes         Reademind SL, non-disking water       770       0.74       1.000       4.8       6.00       3.9       1.000       2.0       -         Reademind SL, non-disking water       1.0       0.5 % pt       -       2.3       -	Commercial ESL, drin	nking water	(IDg)	83	0.044	2.9	(ppm) 3.3	2.3	0.023	2.500	83	-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Residential ESL, drin	king water		83	0.044	2.9	3.3	2.3	0.023	410	83	
Residential SSL, non-chanking water       100       0.12       29       33       31       8.4       410       100       Notes         Residential IX, thema Health       70       0.74       1.000       4.3       660       39       10.000       200          Residential IX of noots at circles 0 to 10 ft bgs:        1.2        2.2	Commercial ESL, nor	-drinking water		450	0.26	29	33	100	8.4	2.500	150	
Residential ESL, Human Health       770 $0.74$ 1000       4.8       666       39       10.000       240          Residential LTQ monitor air criteria (0) to 5 ft hgy:       -       1.9       -       2.2       -	Residential ESL, non-	drinking water		100	0.12	29	33	31	8.4	410	100	Notes
Residential LTCP outdoor air criteria (5 to 10 ftsp2):       -       1.9       -       21       - </td <td>Residential ESL, Hun</td> <td>an Health</td> <td></td> <td>770</td> <td>0.74</td> <td>1.000</td> <td>4.8</td> <td>600</td> <td>39</td> <td>10.000</td> <td>240</td> <td></td>	Residential ESL, Hun	an Health		770	0.74	1.000	4.8	600	39	10.000	240	
Presidential LTCP outdoor at criteria (50 10 fb bg):       -       2.8       -       32       - <td>Residential LTCP out</td> <td>door air criteria (0 to 5</td> <td>ft bgs):</td> <td></td> <td>1.9</td> <td></td> <td>21</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Residential LTCP out	door air criteria (0 to 5	ft bgs):		1.9		21					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Residential LTCP out	door air criteria (5 to 1	0 ft bgs):		2.8		32					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Commercial LTCP ou	tdoor air criteria (0 to	5 ft bgs):		8.2		89					
File       11/11/2015       10       64       0.093       0.17       0.49       1.9 $< 0.50$ Excavated         FE-9.5       11/11/2015       9.5       2,700 $< 2.5$ 6.7       9.7       45 $< 2.5$ Excavated         8-9.5       11/11/2015       9.5       7,800       13       96       96       610 $< 2.5$ Excavated         N-9       11/17/2015       9       2,600 $< 0.50$ 2.3       6.4       200 $< 5.0$ Excavated         September 2014 Soil Investigation       5       5 $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$	Commercial LTCP ou	tdoor air criteria (5 to	10 ft bgs):		12		134					
14.01       14.11       10       6.4       0.093       0.17       0.49       19       4.03       -       -       Excented         F42.95       11/11/2015       9.5       7,000       123       6.6       9.7       4.5       4.5       -       -       Excented         S-5       11/11/2015       9.5       7,000       13       6.6       9.0       6.10       -25       -       -       Excented         N-3       11/17/2015       13       7,200       34       300       120       7,30       4.50       -       -       Excented         Setember 2014 Sol Increase       -       -       -       2.1       -       -       -       Excented         SG-1.4'       911/2014       3       <1.0												
FeB 3       11/112015       9.5       2.700 $2.25$ 6.7       9.7       4.5 $2.35$ Excavated         S9.5       11/112015       9.5       2.600 $3.05$ 2.3 $6.4$ 2.00 $2.50$ $$ Excavated         N.9       11/172015       9       2.600 $3.4$ $300$ $100$ $730$ $2.5$ $$ Excavated         Septembolic       Signal $11/172015$ 9 $2.600$ $3.4$ $300$ $100$ $730$ $2.5$ $$ Excavated         Septembolic       Signal $11/172015$ $3$ $-1.0$ $0.005$ $-0.005$ $-0.005$ $0$	F-10	11/11/2015	10	64	0.093	0.17	0.49	1.9	< 0.50			Excavated
\$9.5       11/12015       9.5       7.800       13       96       96       610 $< 2.5$ Excavated         N-9       11/17/2015       13       7.200       34       300       120       730 $< 2.5$ Excavated         Sepenber 2014 Sol Texture       51       3 $< 1.0$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$ $< 0.005$	F-E-9.5	11/11/2015	9.5	2,700	<2.5	6.7	9.7	45	<25			Excavated
N-9 N-1311/17/2015132600 7,200 $0.50$ 342.364 300200 120 $0.50$ 730 $$ $$ 	S-9.5	11/11/2015	9.5	7,800	13	96	96	610	<25			Excavated
N9         11/172015         9         2,600 $34$ 2.3         6.4         200 $<5.0$ $=$ $=$ Excavated           Sepenber 2014 Sull restant         5 $<1.0$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ <td></td>												
N-13       1/1/72015       13       7,200       34       300       120       730       -25         Excavated         September 2014 Sulf       3       -1.0       -0.005	N-9	11/17/2015	9	2,600	<0.50	2.3	6.4	200	<5.0			Excavated
September 2014 Solution       September 2014 Solution <td>N-13</td> <td>11/17/2015</td> <td>13</td> <td>7,200</td> <td>34</td> <td>300</td> <td>120</td> <td>730</td> <td>&lt;25</td> <td></td> <td></td> <td>Excavated</td>	N-13	11/17/2015	13	7,200	34	300	120	730	<25			Excavated
September 2014 Soil Investigation         Sch-1-3       9/11/2014       3       <1.0       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0												
SG1-3?       9/11/2014       3       <1.0 $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ </td <td>September 2014 Soil</td> <td>Investigation</td> <td></td>	September 2014 Soil	Investigation										
SG-1-6'       9/11/2014       6       <1.0 $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ $<0.005$ <td>SG-1-3'</td> <td>9/11/2014</td> <td>3</td> <td>&lt;1.0</td> <td>&lt; 0.005</td> <td>&lt; 0.005</td> <td>&lt; 0.005</td> <td>&lt; 0.005</td> <td>&lt; 0.005</td> <td></td> <td>2.1</td> <td></td>	SG-1-3'	9/11/2014	3	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		2.1	
SG-2.3' SG-2.6'9/18/20143 9/18/2014 $(1.0)$ $(0.005)$ <th< td=""><td>SG-1-6'</td><td>9/11/2014</td><td>6</td><td>&lt;1.0</td><td>&lt; 0.005</td><td>&lt; 0.005</td><td>&lt; 0.005</td><td>&lt; 0.005</td><td>&lt; 0.005</td><td></td><td>2.1</td><td></td></th<>	SG-1-6'	9/11/2014	6	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		2.1	
SG-2-5       9/18/2014       3       <1.0       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005				1.0								
SG-2-6       9/18/2014       6       <1.0       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005	SG-2-3	9/18/2014	3	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		3.1	
SG-3-3' SG-3-6'9/18/20143<1.0 <0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.005<0.00	SG-2-6	9/18/2014	6	<1.0	< 0.005	< 0.005	<0.005	< 0.005	< 0.005		3.6	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	SG-3-3'	9/18/2014	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005		1.1	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	SG-3-6'	9/18/2014	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005		1.1	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5000	9/18/2014	0		<0.005	<0.005	<0.005	<0.005	<0.005		1.2	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	SG-4-3'	9/11/2014	3	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		3.7	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	SG-4-6'	9/18/2014	6	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		8.1	
SG-5-3'       9/11/2014       3       <1.0       <0.005       <0.005       <0.005       <0.005       <0.005       -       4.2         SG-6-3'       9/18/2014       3       <1.0												
SG-6-3'       9/18/2014       3       <1.0       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.005       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.0050       <0.00	SG-5-3'	9/11/2014	3	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		4.2	
SG-6-3'       9/18/2014       3       <1.0       <0.005       <0.005       <0.005       <0.005       -       6.1         SG-6-6'       9/18/2014       6       1,900       <2.0       3.2       3.0       49       <2.0        620         November 2003 Post-Perside Injection Sampling                 6.1         S-18-4       11/7/2003       4       <1.0       <0.0050       <0.0050       <0.0050       <0.0050       <           S-18-9       11/7/2003       9       1,800       4.0       35       21       150            S-18-14       11/7/2003       14       2,000       27       120       42       230            S-18-19       11/7/2003       19       <1.0       0.028       0.073       0.019       0.10            S-18-24       11/7/2003       24       <4.6       <0.023       0.027       <0.023       0.061            S-18-24       11/7/2003       24       <4.6       <												
SG-6-6'       9/18/2014       6       1,900       <2.0       3.2       3.0       49       <2.0        620         November 2003 Post-Peroxide Injection Sampling                  600	SG-6-3'	9/18/2014	3	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.1	
November 2003 Post-Peroxide Injection Sampling         S-18-4       11/7/2003       4       <1.0	SG-6-6'	9/18/2014	6	1,900	<2.0	3.2	3.0	49	<2.0		620	
November 2003 Post-Peroxide Injection Sampling         S-18-4       11/7/2003       4       <1.0	<b>X</b>											
S-18-4       11//2003       4       < 1.0       < 0.0000       < 0.0000       < 0.0000       < 0.0000             S-18-9       11/7/2003       9 <b>1,800 4.0</b> 35 <b>21</b> 150            S-18-14       11/7/2003       14 <b>2,000 27</b> 120 <b>42</b> 230           S-18-19       11/7/2003       19       <1.0	November 2003 Post	-Peroxide Injection S	ampling	<1.0	<0.0050	<0.0050	<0.0050	<0.0050				
S-16-2     11/1/2003     24     1,000     7     1,000     7     1-     1-     1-       S-18-14     11/7/2003     14     2,000     27     120     42     230         S-18-19     11/7/2003     19     <1.0	S-18-4	11/7/2003	4	<1.0 1 800	<0.0050 <b>4</b> 0	<0.0050	<0.0050 <b>21</b>	<0.0050 150				
S-16-14       11/7/2003       19       <1.0       0.028       0.073       0.019       0.10            S-18-24 $11/7/2003$ 24       <4.6	S-10-7 S-18-14	11/7/2003	14	2.000	27	120	42	230				
S-18-24 11/7/2003 24 <4.6 <0.023 0.027 <0.023 0.061	S-18-19	11/7/2003	19	<1.0	0.028	0.073	0.019	0.10				
	S-18-24	11/7/2003	24	<4.6	<0.023	0.027	<0.023	0.061				

Sample ID	D Date	Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	
Commercial ESL.	drinking water	(IDg)	83	0.044	2.9	(ppm) 3.3	2.3	0.023	2,500	83	
Residential ESL	drinking water		83	0.044	2.9	3 3	2.3	0.023	410	83	
Commercial ESL,	non-drinking water		450	0.26	29	33	100	8.4	2 500	150	
Residential FSL	non-drinking water		100	0.12	29	33	31	8.4	410	100	Notos
Residential ESL,	Human Health		770	0.74	1.000	4.8	600	39	10.000	240	
Residential LTCP	Poutdoor air criteria (0.1	to 5 ft bgs):		19		21					
Residential LTCP	Poutdoor air criteria (5 t	to 10 ft bgs):		2.8		32					
Commercial LTC	Poutdoor air criteria (0	to 5 ft bgs):		8.2		89					
Commercial LTC	P outdoor air criteria (5	to 10 ft bgs):		12		134					
	i outdoor un eriteriu (b	10 10 11 0 5).		12		101					
S-19-4	11/7/2003	4	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050				
S-19-8	11/7/2003	8	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050				
S-19-9	11/7/2003	9	3.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050				
S-19-14	11/7/2003	14	2,000	9.6	71	34	190				
S-19-19	11/7/2003	19	<1.0	0.0075	0.017	0.0079	0.036				
S-20-9	11/7/2003	9	<1.0	<0.0050	<0.0050	<0.0050	<0.0050				
S-20-15	11/7/2003	15	<5.0	1.2	< 0.025	0.095	0.026				
S-20-19 5	11/7/2003	19.5	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050				
S-20-21	11/7/2003	21	<4.6	0.84	< 0.023	0.067	0.026				
S-20-24	11/7/2003	24	<1.0	< 0.0050	< 0.0050	<0.0050	< 0.0050				
C 21 4	11/7/2002	4	<1.0	<0.0050	<0.0050	<0.0050	<0.0050				
S-21-4	11/7/2003	4	<1.0	<0.0050	<0.0050	< 0.0050	<0.0050				
S-21-9	11/7/2003	9	<1.0	<0.0050	<0.0050	<0.0050	<0.0050				
S-21-11	11/7/2003	11	1 400	<0.30	<0.30	4.4	14				
S-21-14	11/7/2003	14	1,400	<b>5.5</b>	0/	20	130				
S-21-19	11/7/2003	19	<1.0	<0.0085	<0.055	<0.010	<0.044				
5-21-24	11/7/2005	24	<1.0	<0.0050	<0.0050	<0.0050	<0.0050				
June 2002 Soil In	nvestigation										
S-10 5.0-5.5	6/7/2002	5.0	<1.0	<.005	<.005	<.005	<.005				
S-10 8.5-9.0	6/7/2002	8.5	<1.0	<.005	<.005	<.005	<.005				
S-10 10-10.5	6/7/2002	10.0	<1.0	<.005	<.005	<.005	<.005				
S-10 12.5-13	6/7/2002	12.5	1,700	1.2	6.3	25	120				
S-10 15-15.5	6/7/2002	15.0	4,300	4.3	46	57	470				
S-10 17.5-18	6/7/2002	17.5	<1.0	0.012	0.012	0.012	0.062				
S-10 20-20.5	6/7/2002	20.0	690	2.0	9.1	11	56				
S-10 22.5-23	6/7/2002	22.5	<1.0	<.005	<.005	<.005	<.005				
S-10 24.5-25	6/7/2002	24.5	<1.0	<.005	<.005	<.005	<.005				
S-11 5-5.5	6/7/2002	5.0	<1.0	<.005	<.005	<.005	<.005				
S-11 7.5-8	6/7/2002	7.5	<1.0	<.005	<.005	<.005	<.005				
S-11 10.5-11	6/7/2002	10.5	<1.0	<.005	<.005	<.005	<.005				
S-11 12.5-13	6/7/2002	12.5	1,400	3.7	26	21	140				
S-11 15-15.5	6/7/2002	15.5	3,200	8.6	55	42	230				
S-11 17.5-18	6/7/2002	17.5	330	1.3	5.9	4.2	24				

Sample ID	Date	Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	
Communical ESL daim	1-1	(fbg)	•	0.044	2.0	<u>(ppm)</u>		0.022	0.500	•	
Desidential ESL, drint	king water		83	0.044	2.9	3.3	2.3	0.023	2,500	83	
Residential ESL, drink	ing water		83	0.044	2.9	3.3	2.3	0.023	410	83	
Commercial ESL, non-	-drinking water		450	0.26	29	33	100	8.4	2,500	150	
Residential ESL, non-c	drinking water		100	0.12	29	33	31	8.4	410	100	Notes
Residential ESL, Huma	an Health		770	0.74	1,000	4.8	600	39	10,000	240	
Residential LTCP outd	loor air criteria (0 to	5 ft bgs):		1.9		21					
Residential LTCP outd	loor air criteria (5 to	10 ft bgs):		2.8		32					
Commercial LTCP out	door air criteria (0 to	o 5 ft bgs):		8.2		89					
Commercial LTCP out	door air criteria (5 to	o 10 ft bgs):		12		134					
S-11 20-20.5	6/7/2002	20.0	<1.0	0.015	0.018	< 0.005	0.019				
S-11 22.5-23	6/7/2002	22.5	<1.0	0.019	0.045	0.015	0.092				
S-11 24.5-25	6/7/2002	24.5	<1.0	0.01	0.023	0.062	0.037				
S-11 26-26.5	6/7/2002	26.0	<1.0	<.005	<.005	<.005	<.005				
S-11 28.5-29	6/7/2002	28.5	<1.0	<.005	<.005	<.005	<.005				
S-12 5-5.5	6/7/2002	5.0	<1.0	<.005	<.005	<.005	<.005				
S-12 7.5-8	6/7/2002	7.5	<1.0	<.005	<.005	<.005	<.005				
S-12 13.5-14	6/7/2002	13.5	650	5.7	30	12	64				
S-12 15-15.5	6/7/2002	15.0	13,000	130	740	290	1,500				
S-12 17.5-18	6/7/2002	17.5	16	0.65	2.1	0.42	2.3				
S-12 20-20.5	6/7/2002	20.0	2	0.058	0.19	0.049	0.29				
S-12 22.5-23	6/7/2002	22.5	220	1.3	9.0	4.2	24				
S-12 24.5-25	6/7/2002	24.5	1.9	0.047	0.2	0.052	0.26				
S-13 5-5.5	6/7/2002	5.0	<1.0	<.005	<.005	<.005	<.005				
S-13 7.5-8	6/7/2002	7.5	<1.0	<.005	<.005	<.005	<.005				
S-13 12.5-13	6/7/2002	12.5	9,800	26	310	130	1,100				
S-13 15-15.5	6/7/2002	15.0	3,900	37	180	76	360				
S-13 17.5-18	6/7/2002	17.5	4,700	6.5	130	59	580				
S-13 20-20.5	6/7/2002	20.0	<1.0	0.028	0.0085	< 0.005	0.068				
S-14 5 5-6	6/10/2002	5.5	<1.0	< 005	< 005	< 005	< 005				
S-14 7 5-8	6/10/2002	7.5	<1.0	< 005	< 005	< 005	< 005				
S-14 9-9 5	6/10/2002	9.0	<1.0	< 005	< 005	< 005	< 005				
S-14 11 5-12	6/10/2002	11.5	<1.0	< 005	< 005	< 005	0.0078				
S-14 12 5-13	6/10/2002	12.5	670	<0.25	0.71	5.4	19				
S-14 15-15 5	6/10/2002	15.0	1 100	0.88	25	22	120				
S-14 17 5-18	6/10/2002	17.5	3.8	0.1	0.3	0.89	0.48				
S-14 20-20.5	6/10/2002	20.0	4	0.39	0.51	0.12	0.5				
S-15 5-5.5	6/10/2002	5.0	<1.0	<.005	<.005	<.005	0.011				
5-15 /.5-8	6/10/2002	1.5	<1.0	<.005	<.005	<.005	<.005				
8-15 10-10.5	6/10/2002	10.0	2.3	<.005	<.005	<.005	<.005				
8-15 12.5-13	6/10/2002	12.5	<1.0	<.005	<.005	<.005	0.032				
8-15 15-15.5	6/10/2002	15.0	1,200	1.9	4.3	22	110				

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	
Commercial ESL, drinl	king water	(IDg)	83	0.044	2.9	3.3	2.3	0.023	2,500	83	
Residential ESL, drink	ing water		83	0.044	2.9	3.3	2.3	0.023	410	83	
Commercial ESL, non-	drinking water		450	0.26	29	33	100	8.4	2,500	150	
Residential ESL, non-d	lrinking water		100	0.12	29	33	31	8.4	410	100	Notes
Residential ESL, Huma	an Health		770	0.74	1,000	4.8	600	39	10,000	240	
Residential LTCP outd	loor air criteria (0 to	5 ft bgs):		1.9		21					
Residential LTCP outd	loor air criteria (5 to	10 ft bgs):		2.8		32					
Commercial LTCP out	door air criteria (0 to	5 ft bgs):		8.2		89					
Commercial LTCP out	door air criteria (5 to	o 10 ft bgs):		12		134					
S-15 17.5-18	6/10/2002	17.5	24	1.3	1.9	0.4	1.9				
S-15 20-20.5	6/10/2002	20.0	270	0.51	3.5	4.2	21				
S-16 7.5-8	6/10/2002	7.5	<1.0	<.005	<.005	<.005	<.005				
S-16 10-10.5	6/10/2002	10.0	<1.0	<.005	<.005	<.005	<.005				
S-16 11.5-12	6/10/2002	11.5	<1.0	<.005	<.005	<.005	<.005				
S-16 15-15.5	6/10/2002	15.0	4,500	<1.0	4	94	460				
S-16 17.5-18	6/10/2002	17.5	5,000	<1.0	23	76	360				
S-16 20-20.5	6/10/2002	20.0	1.3	0.12	0.0088	0.08	0.08				
S-17 5-5 5	6/10/2002	5.0	<1.0	< 005	< 005	< 005	< 005				
S-17 10-10 5	6/10/2002	10.0	<1.0	< 005	< 005	< 005	< 005				
S-17 12 5-13	6/10/2002	12.5	4 300	0.64	6.8	48	340				
S-17 15-15 5	6/10/2002	15.0	590	0.41	5.8	11	58				
S-17 17 5-18	6/10/2002	17.0	52	0.57	0.073	0.16	0.66				
S-17 20-20.5	6/10/2002	20.0	<1.0	<.005	<.005	<.005	0.013				
S-18 2.5-3	6/10/2002	2.5	<1.0	<.005	<.005	<.005	<.005				
MW 5 0 5	0/27/2001	0.5	2.0	<0.0050	<0.0050	0.0060	0.010	<0.50			
MW-5-14.0	9/27/2001	9.5 14 5	3.9 790	<0.0050 2 7	<0.0050	11	67	<0.50			
WIW-5-14.0	5/2//2001	14.5	150	2.7	50	11	07	<1.0			
December 2000 Geop	robe Investigation	5.0	-1.0	-0.0050	-0.0050	-0.0050	-0.0050	-0.0050			
GP-1-5	12/11/2000	5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	< 0.0050			
GP-1-10	12/11/2000	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	< 0.0050			
GP-1-15	12/11/2000	15.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050			
GP-1-20	12/11/2000	20.0	120	< 0.020	0.022	0.64	1.1	<0.020			
GP-2-5	12/11/2000	5.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
GP-2-10.5	12/11/2000	10.5	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
GP-2-15	12/11/2000	15.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
GP-3-5	12/11/2000	5.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
GP-3-10.0	12/11/2000	10.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
GP-3-15.0	12/11/2000	15.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
GP-4-5	12/11/2000	5.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			

Sample ID	Date	Depth	ТРНд	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	
Commercial FSL drinki	ng water	(fbg)	83	0.044	2.0	<u> </u>	23	0.023	2 500	83	
Residential FSL drinkir	ng water		83	0.044	2.9	3.3	2.5	0.023	410	83	
Commercial ESL, annual	rinking water		450	0.044	2.9	22	100	8.4	2 500	150	
Posidential ESL, non-dr	inking water		430	0.20	29	22	21	8.4	2,300	100	Netes
Residential ESL, Humar	Health		770	0.12	1 000		600	30	10 000	240	Notes
Residential LTCP outdo	or air aritaria (0 to 1	5 ft has);	770	1.0	1,000		000	57	10,000	240	
Residential LTCP outdo	or air criteria (5 to	10  ft bgs		2.8		32					
Commercial LTCP outd	oor air criteria (0 to	5 ft bgs):		8.2		89					
Commercial LTCP outd	oor air criteria (5 to	10 ft bgs):		12		134					
GP-4-10	12/11/2000	10.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
GP-4-15	12/11/2000	15.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
GP-5-5	12/11/2000	5.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
GP-5-10	12/11/2000	10.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
GP-5-15	12/11/2000	15.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
March 1006 Investigat	ion										
SB-A/(MW-1)-10.5	03/06/96	10.5	<1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025		160		
SB-A/(MW-1)-16.0	03/06/96	16.0	9.8	1.9	0.4	0.22	1.1		57		
SB-A/(MW-1)-20.5	03/06/96	20.5	5.9	0.89	0.049	0.19	0.25		80		
SD D/(MW 2) 10 5	02/06/06	10.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025				
SB-B/(MW-2)-10.3 SB B/(MW-2) 16.0	03/06/96	10.3	<1.0	<0.0025	<0.0023	<0.0023	<0.0023				
<b>3D-D</b> /(WW-2)-10.0	03/00/90	10.0	<1.0	<0.0025	<0.0025	<0.0025	<0.0025				
SB-C-11.75	03/06/96	11.8	<1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025				
SB-C-15.5	03/06/96	15.5	1.9	0.022	0.12	0.086	0.32				
SB-D/(MW-3)-10.5	03/06/96	10.5	<1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025				
SB-D/(MW-3)-15.5	03/06/96	15.5	<1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025				
SB-E-10.5	03/06/96	10.5	<1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025		<50		
SB-E-16.0	03/06/96	16.0	<1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025		200		
SB-E(VW/AS)-1-5 5	03/07/96	5 5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025				
SB-F(VW/AS-1)-10.5	03/07/96	10.5	62	0.97	4.2	1.4	8.0				
SB-F(VW/AS-1)-15.5	03/07/96	15.5	7.4	1.7	0.44	0.2	0.6				
SB-F(VW/AS-1)-20.5	03/07/96	20.5	20	2.6	1.7	0.5	2.0				
SB-G(VW/MW-2)-8 5	03/07/96	8.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025				
SB-G(VW/MW-2)-10.5	03/07/96	10.5	<1.0	0.0032	< 0.0025	<0.0025	<0.0025				
SB-G(VW/MW-2)-20.5	03/07/96	20.5	2.9	0.47	0.34	0.15	0.57				
CD LIANAC 2) 95	02/07/06	0 <i>5</i>	<1.0	<0.0025	<0.0025	<0.0025	<0.0025				
SD-H(VW/AS-3)-8.3 SB-H(VW/AS 3) 10.5	03/07/96	8.5 10.5	<1.0	<0.0025	<0.0025	<0.0025	< 0.0025				
SB-H(VW/AS-3)-21.0	03/07/96	21.0	1.0	0.047	0.016	0.0037	0.017				
	00,0170	21.0		0.017	0.010	0.0007	0.017				
SB-I(VW/MW-4)-5.5	03/08/96	5.5	<1.0	<0.0025	< 0.0025	<0.0025	< 0.0025				
SB-1(VW/MW-4)-8.5	03/08/96	8.5	80	0.14	0.33	1.3	5.2				

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	
Commercial ESL, drinkin	g water	(IDg)	83	0.044	2.9	3.3	2.3	0.023	2,500	83	
Residential ESL, drinking	water		83	0.044	2.9	3.3	2.3	0.023	410	83	
Commercial ESL, non-dri	nking water		450	0.26	29	33	100	8.4	2.500	150	
Residential ESL, non-drin	iking water		100	0.12	29	33	31	8.4	410	100	Notes
Residential ESL, Human	Health		770	0.74	1.000	4.8	600	39	10.000	240	
Residential LTCP outdoo	r air criteria (0 to	5 ft has).		19		21					
Residential LTCP outdoo	r air criteria (5 to	10 ft bgs):		2.8		32					
Commercial LTCP outdo	or air criteria (0 to	5 ft bgs):		8.2		89					
Commercial LTCP outdo	or air criteria (5 to	10 ft bgs):		12		134					
	, ,										
SB-I(VW/MW-4)-15.5	03/08/96	15.5	3.4	0.23	0.093	0.1	0.42				
SB-J-10.5	03/08/96	10.5	<1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025				
SB-K(MW-4)-10.5	03/08/96	10.5	<1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025				
Product Piping Samples											
TS-1-4.0	11/27/1995	4	<1.0	< 0.0050	0.005	< 0.0050	< 0.0050				
TS-2-2.0	11/27/1995	2	<1.0	< 0.0050	0.0057	< 0.0050	0.0075				
TS-3-3.0	11/27/1995	3	<1.0	< 0.0050	< 0.0050	< 0.0050	0.0069				
TS-4-3.0	11/27/1995	3	< 0.005	0.011	0.038	0.0073	0.043				
TS-5-2.5	11/27/1995	2.5	46	< 0.10	< 0.10	< 0.10	2				
TS-6-3.0	11/27/1995	3	3,100	30	<6.0	33	230				
Tankpit Excavation Cor	nfirmation Sampl	les									
S2-15.0	11/27/1995	15	3,600	<6.0	140	78	430				
S3-15.0	11/27/1995	15	1,000	7.6	33	19	100				
S4-15.0	11/27/1995	15	5,600	72	280	110	580				
S5-15.0	11/27/1995	15	2,800	36	160	64	350				
S6-15.0	11/27/1995	15	3,800	<6.0	<6.0	76	350				
S7-15.0	11/27/1995	15	570	< 0.50	< 0.50	4.9	13				
S8-15.0	11/27/1995	15	3.200	60	200	69	350				
\$9-15.0	11/27/1995	15	5,100	62	260	110	570				
1993 UST and Dispense	r Removal Samp	les									
S-1	08/25/93	8.5	67	0.038	0.089	0.110	0.380		7,700	1,200	
S-2	08/25/93	14.0	2,200	1.4	3.2	3.5	13				
S-3	08/25/93	11.0	530	0.4	0.76	0.83	3.1				
S-4	08/25/93	11.0	40	0.031	0.059	0.066	0.29				
S-5	08/25/93	11.0	1.4	< 0.005	0.0063	0.0081	0.025				
S-6	08/25/93	13.0	1,600	0.97	2.3	2.7	10				
S-7	08/25/93	11.0	11.000	6.7	16	18	69				
S-8	08/25/93	11.0	18,000	11	26	30	110				
S-9	08/25/93	11.0	6,200	3.7	8.7	10	37				
DS-1	08/25/93	1.0	0.013	0.0070	0.017	0.021	0.072				
DS-2	08/25/93	1.0	0.0020	0.0053	0.0089	0.012	0.031				

Table 1 Soil Analytical Results - Former Shell-branded Service Station, 1230 14th St., Oakland, California

Sample ID	Date	Depth (fbg)	TPHg ←	Benzene	Toluene	Ethyl-benzene —— (ppm)	Xylenes	MTBE	Oil and Grease	TPHd	
Commercial ESL, drin	king water		83	0.044	2.9	3.3	2.3	0.023	2,500	83	
Residential ESL, drink	ting water		83	0.044	2.9	3.3	2.3	0.023	410	83	
Commercial ESL, non	-drinking water		450	0.26	29	33	100	8.4	2,500	150	
Residential ESL, non-	drinking water		100	0.12	29	33	31	8.4	410	100	Notes
Residential ESL, Hum	an Health		770	0.74	1,000	4.8	600	39	10,000	240	
Residential LTCP out	loor air criteria (0 to	5 ft bgs):		1.9		21					
Residential LTCP out	loor air criteria (5 to	10 ft bgs):		2.8		32					
Commercial LTCP out	tdoor air criteria (0 to	o 5 ft bgs):		8.2		89					
Commercial LTCP out	tdoor air criteria (5 to	o 10 ft bgs):		12		134					
DS-3	08/25/93	1.0	0.0013	< 0.0050	0.0059	0.0061	0.018				
DS-4	08/25/93	1.0	0.0027	0.0055	0.0094	0.016	0.047				
DS-5	08/25/93	1.0	0.0034	0.0059	0.011	0.018	0.061				
DS-6	08/25/93	1.0	0.011	0.0068	0.015	0.018	0.064				
VSW-1	08/25/93	6.0	4,800	2.9	7.0	8.0	30				
VSW-2	08/25/93	6.0	0.021	0.15	0.29	0.33	1.3				
1991 Soil Borings											
SB1-6-6.5	2/21/1991	6.0	11	0.014	0.37	0.22	1.2				
SB1-10.5-11	2/21/1991	10.5	4.6	0.15	0.5	0.13	0.68				
SB1-15.5-16	2/21/1991	15.5	7.5	2.1	1.8	0.18	1.1				
SB2-6-6.5	2/21/1991	6.0	<1.0	<.0050	<.0050	<.0050	0.034				
SB2-10.5-11	2/21/1991	10.5	1.8	0.062	0.038	0.035	0.085				
SB2-15.5-16	2/21/1991	15.5	6.1	1.2	1.4	0.15	0.8				
SB3-6-6.5	2/21/1991	6.0	<1.0	0.038	0.0054	0.015	0.034				
SB3-10.5-11	2/21/1991	10.5	1,600	18	98	35	190				
SB3-15.5-16	2/21/1991	15.5	2.4	0.31	0.21	0.064	0.35				

Notes:

Commercial/Residential ESL, drinking water = Table A - Environmental Screening Levels for Shallow Soil (<3 meters) where groundwater is a current or potential source of drinking water, as established by the RWQCB-SFBR, Interim Final November 2007 (Revised December 2013).

Commercial/Residentail ESL, non-drinking water = Table B - Environmental Screening Levels for Shallow Soil (<3 meters) where groundwater is a <u>not</u> current or potential source of drinking water, as established by the RWQCB-SFBR, Interim Final November 2007 (Revised December 2013).

1,400 = Samples collected after peroxide injection, which contain concentrations exceeding the ESL for residential human health protection are shown in **bold**.

Sample depth = Feet below ground surface

ppm = parts per million (milligrams per kilogram).

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015C.

TPHg = Total Petroleum Hydrocarbons as gasoline, analyzed by EPA Method 8015 in 3/6/96 event; by EPA Method 8260B for susequent events.

Benzene, toluene, ethylbenzene, and xylene analyzed by EPA Method 8020 in 3/6/96 event; by EPA Method 8260B for subsequent events

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260B.

Oil and grease by Standard Method 5520.

# Pangea

#### Table 2. Soil Gas Analytical Data - Former Shell-branded Service Station, 1230 14th St., Oakland, California

Boring/ Date Depth														
Sample ID	Sampled	(ft-ft bgs)	←			– ug/m <sup>3</sup> —				$\longrightarrow$	%	%	%	%
Residential ESL for sl	hallow <b>soil gas</b> :		42	160,000	490	52,000	50,000	4,700	36	Varies				
Commercial ESL for	shallow <b>soil gas</b> :		420	1,300,000	4,900	220,000	50,000	47,000	360	Varies				
LTCP Commercial Co	riteria (With Bioattenu	uation Zone)	280,000		3,600,000				310,000					
LTCP Commercial Co	riteria (No Bioattenua	tion Zone)	280		3,600				310					
SG-1 SG-2 SG-3	11/11/2014 11/11/2014 11/11/2014	5-6 5-6 5-6	<3.7 <3.8 <3.9	<4.4 <4.5 <4.6	<5.0 <5.2 <5.2	<10 <10.4 <10.4	<240 <240 <250	<4.2 <4.3 <4.4	<24 <25 <25	 	<0.12 <0.12 <0.12	18 20 18	 	
SG-4 SG-5	11/11/2014	5-6 3 5-4 5	<3.9	<4.6 <4.6	<5.2 <5.4	<10.4 <10.8	<250 <250	<4.4 <4.4	<25 <26		<0.12	16 18		
SG-6 VMP-1	11/11/2014 11/11/2014	5-6 5-6	<b>1,300</b> <3.7	480 <4.4	<520 <5.0	17,700 <10	<b>9,800,000</b> 490	<440 <4.2	<2,500 <24		<0.12 <0.12	14 19		

#### Abbreviations:

SG-1 = Soil Gas Sample

ug/m3 = Micrograms per cubic meter of air results calculated by laboratory from parts per billion results using normal temperature and pressure (NPT).

ft - ft bgs = Depth interval below ground surface (bgs) in feet.

Other VOCs = Volatile organic compounds by EPA Method TO-15, uses GC/MS scan.

< n = Chemical not present at a concentration in excess of detection limit shown.

--- = Not analyzed

MRL = Method reporting limit.

ESL = Environmental Screening Level for Shallow Soil Gas with Residential and Commercial/Industrial Land Use, for samples less than five feet below a building foundation or ground surface (Table E).

ESL established by the SFBRWQCB, Interim Final - November 2007 (revised December 2013).

LTCP = Low Threat Closure Policy established by the State Water Resources Control Board and adopted May 1, 2012. Soil Gas Criteria.

Bold = Concentrations above ESLs for Residential and/or Commercial Land Use for shallow soil gas (SG samples).

Varies = Concentration detections for VOCs varies. Please see analytical report.

# APPENDIX A

Regulatory Correspondence

ALAMEDA COUNTY HEALTH CARE SERVICES

ALEX BRISCOE, Director

AGENCY



ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

August 3, 2015

Mr. Andrew Saberi Sabek, Inc. 1045 Airport Blvd. South San Francisco, CA 94080 Mr. Som Gupta c/o Abe Gupta AV Law Firm PC 111 Deerwood Road, Suite 380 San Ramon, CA 94583 (*Sent via E-mail to: <u>abe@avlawyers.com</u>*)

Perry Pineda Shell Oil Products US 20945 S. Wilmington Ave. Carson, CA 90810-1039 (Sent via E-mail to: <u>perry.pineda@shell.com</u>)

Subject: Work Plan Approval for Fuel Leak Case No. RO0000433 and GeoTracker Global ID T0600101691, Shell/Sabek Inc, 1230 14<sup>th</sup> Street, Oakland, CA 94607

Dear Mr. Saberi, Mr. Pineda, and Mr. Gupta:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the most recently submitted document entitled, "*Workplan for Soil Excavation*" dated July 28, 2015 (Work Plan). The Work Plan, which was prepared by Pangea Environmental Services on behalf of property owner Andy Saberi, presents plans for limited soil excavation in the area of a former dispenser.

The proposed scope of work is acceptable and may be implemented as proposed. We request that you perform the proposed work and send us the reports described below.

### TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Jerry Wickham), and to the State Water Resources Control Board's GeoTracker website according to the following schedule and file-naming convention:

• November 13, 2015 – Soil Excavation and Confirmation Soil Sampling Report File to be named: EX\_R\_yyyy-mm-dd RO433

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Responsible Parties RO0000433 August 3, 2015 Page 2

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org. Case files can be reviewed online at the following website: <a href="http://www.acgov.org/aceh/index.htm">http://www.acgov.org/aceh/index.htm</a>. Case files can be reviewed online at the following website: <a href="http://www.acgov.org/aceh/index.htm">http://www.acgov.org/aceh/index.htm</a>. If your email address does not appear on the cover page of this notification ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297 Senior Hazardous Materials Specialist

Attachment: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Robert Clark-Ridell, Pangea, 1710 Franklin Street, Suite 200, Oakland, CA 94612 (Sent via E-mail to: <u>BRiddell@pangeaenv.com</u>)

Michael R. Leslie, Caldwell, Leslie, & Proctor, 725 South Figueroa Street, 31<sup>st</sup> Floor, Los Angeles, CA 90017-5524

William Paynter, Law Offices of William H. Paynter, 809 Broadway, Suite 6, Sonoma, CA 94576

Michael Taffet, Oak Center Neighborhood Association, (Sent via E-mail to: <u>mjtaffet@gmail.com</u>)

Ellen Wyrick-Parkinson, 1420 Magnolia Street, Oakland, CA 94607

M. Willingham, 1418-1420 Union Street, Oakland, CA 94607

Jerry Wickham, ACEH (*Sent via E-mail to: jerry.wickham@acgov.org*) GeoTracker, eFile

# **Bob Clark-Riddell**

From:Bob Clark-RiddellSent:Wednesday, November 18, 2015 4:47 PMTo:'Wickham, Jerry, Env. Health'Subject:RE: 1230 14th Street Excavation - Urgent Well DestructionAttachments:Draft Excavation Plan 11-18-15.pdf

Jerry,

Per your request Pangea coordinated additional delineation north and east of the excavation. As shown on the attached map, the planned excavation will be expanded to the north to meet the revised cleanup goal. The excavation will be extended north about 10 feet and east about 5 ft. Note that the first northern test pit found 34 mg/kg benzene at 13', much higher than prior maximum benzene. This impact will now be removed also.

Contact me with comments on the planned excavation expansion.

Bob Clark-Riddell, P.E. Pangea Environmental Services, Inc. 510.435.8664 direct

-----Original Message-----

From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org] Sent: Monday, November 16, 2015 6:21 PM To: Bob Clark-Riddell <briddell@pangeaenv.com> Subject: RE: 1230 14th Street Excavation - Urgent Well Destruction

Bob,

Based on the information you have presented, it appears that the proposed excavation to the north may be sufficient provided that confirmation soil samples collected at the completion of excavation to the north do not exceed the modified cleanup goals. In addition to the deeper soil samples collected at 10 feet and greater, please collect one confirmation sample between 3 to 5 feet bgs and one soil sample between 6 and 10 feet bgs from the northern wall for confirmation.

I did not see sidewall results from the eastern sidewall, only a floor sample apparently from 9.5 feet bgs. Therefore, it is not clear whether the excavation is sufficient to the east. Further delineation using borings or exploratory trenching to the east may be appropriate. For the eastern, southern, and western sidewalls, please include one soil confirmation sample from approximately 3 to 5 feet bgs and one confirmation soil sample between 6 and 10 feet bgs to demonstrate that shallow soils do not pose a risk and a bioattenuation zone exists for soil vapor.

Regards, Jerry Wickham Alameda County Environmental Health

From: Bob Clark-Riddell [briddell@pangeaenv.com] Sent: Monday, November 16, 2015 4:08 PM

## To: Wickham, Jerry, Env. Health Subject: RE: 1230 14th Street Excavation - Urgent Well Destruction

## Hello Jerry,

Based on field observations and analytical results from samples collected during exploratory trenching last week, Pangea prepared the attached draft figure showing our tentative extent of excavation. The planned depth of the excavation is approximately 14 ft. For shoring, we will install a slurry wall adjacent the sidewalk and southern boundary on Tuesday. Excavation and offhaul will be Tuesday, Wed and Thurs. Our goal is to complete the excavation by Thursday this week, and backfill up to 5 ft depth on Friday.

This tentative extent is based on cleanup to revised screening levels from those in the approved workplan. Rather than more conservative Final ESLs in the workplan, Pangea proposes using the ESLs protective of human health of 0.74 mg/Kg benzene and 770 mg/Kg TPHg for residential site use (the anticipated future site use within a residential neighborhood). Theses screening levels are summarized below.

Screening Level

Benzene

TPHg

Approved Workplan (Final ESLs)

0.044 ppm

100 ppm

Proposed Level (Human Health ESLs, Residential Site Use)

0.74 ppm

770 ppm

Question: As shown on the attached figure, contamination has been delineated to the proposed revised screening level to the south and west. Additional delineation to the north and east can be performed tomorrow if necessary. Otherwise, we can perform compliance sampling along the excavation boundary but we would not plan to overexcavate beyond the boundary at a later date. Would you like additional borings or exploratory trenching to the north and east for further delineation on Tuesday, or do you think we would have performed sufficient secondary source removal?

Bob Clark-Riddell, P.E. Pangea Environmental Services, Inc. 510.435.8664 direct

From: Bob Clark-Riddell Sent: Thursday, November 12, 2015 12:43 PM To: 'Wickham, Jerry, Env. Health' <jerry.wickham@acgov.org> Subject: RE: 1230 14th Street Excavation - Urgent Well Destruction

Jerry,

Thank you for responding quickly after your return from Veteran's Day. As we discussed, we should have some new soil lab data to discuss on Monday morning regarding the extent of excavation. Bob

Bob Clark-Riddell, P.E. Pangea Environmental Services, Inc. 510.435.8664 direct

From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org] Sent: Thursday, November 12, 2015 8:11 AM To: Bob Clark-Riddell <briddell@pangeaenv.com<mailto:briddell@pangeaenv.com>> Subject: RE: 1230 14th Street Excavation - Urgent Well Destruction

Bob,

The proposed destruction of the monitoring wells identified below is acceptable. Reuse of the shallow overburden soil is also acceptable provided that the sampling is consistent with the PHIS guidance and the sampling results are less than Tier I ESLs.

Regards,

Jerry Wickham Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502 510-567-6791 jerry.wickham@acgov.org<mailto:jerry.wickham@acgov.org>

From: Bob Clark-Riddell [mailto:briddell@pangeaenv.com] Sent: Wednesday, November 11, 2015 3:33 PM To: Wickham, Jerry, Env. Health <jerry.wickham@acgov.org<mailto:jerry.wickham@acgov.org>> Subject: FW: 1230 14th Street Excavation - Urgent Well Destruction Importance: High

Hello Jerry,

This email follows my voicemail message to you today about the subject site. During today's commencement of the approved soil excavation, we encountered heavy odor and green-stained soil about 8-10 ft depth. We have performed exploratory trenches in each direction to characterize the extent of most significant contamination. Here are some urgent questions.

1. Well Destruction – Due to apparent significant impact extending to the south, we recommend destroying well VW/MW-4 ASAP (this Friday if possible). This well is 20' deep with a 2" casing diameter. During destruction of well VW/MW-4, it makes sense to destroy additional wells at the same time for cost control. Pangea seeks your permission to destroy well VW/MW-4 by pressure grouting, and also wells located further from the excavation activities in progress (such as wells AS-5, DP-3, MW-1, AS-3, DPE-2). The remainder of the site wells, including key perimeter wells MW-6 and MW-7) can be destroyed at a later date after agency noticed of intent to close. Upon your concurrence we would expedite permitting and destruction. Is this acceptable?

2. Overburden Soil Reuse - The shallow overburden soil (about 2-5' depth) appears very clean. We'd like to reuse this soil about 3-6' depth at the site. Consistent with the attached PHIS guidance, we would analyze one sample for every 25 cy of reuse. We expect to reuse about 30-50 cy and analyze two samples for TPHg, TPHd, BTEX, naphthalene for comparison to Tier I ESLs. Is this acceptable?

Please contact me with any questions.

Bob Clark-Riddell, P.E. Pangea Environmental Services, Inc. 510.435.8664 direct

# **Bob Clark-Riddell**

From: Sent: To: Cc: Subject: Bob Clark-Riddell Thursday, November 19, 2015 3:09 PM 'Ellsworth, Ellen' 'James Bauer'; 'Harlan, David'; 'Ray, Cliff' RE: 1230 14th St. Grading Package Addendum

Ellen,

ST will also bring their 'wet vac' water-utilizing vacuum system connected to a 55-gallon drum. I look forward to any additional comments you may have after discussing with Inspector Ray.

Thank you for the verbal approval to order the trucks to continue our work tomorrow. Your quick response is very appreciated, and will allow us to avoid a large open excavation over the weekend. Bob

Bob Clark-Riddell, P.E. Pangea Environmental Services, Inc. 510.435.8664 direct

From: Bob Clark-Riddell
Sent: Thursday, November 19, 2015 2:38 PM
To: 'Ellsworth, Ellen' <EEllsworth@oaklandnet.com>
Cc: James Bauer <james@sustainabletech.cc>; Harlan, David <DHarlan@oaklandnet.com>; Ray, Cliff
<CRay@oaklandnet.com>
Subject: RE: 1230 14th St. Grading Package Addendum
Importance: High

Ellen,

Thank you for meeting just now with me and James of Sustainable Technologies (ST) to go over your email below and Inspector Ray's stop work order/correction notice. Here is a summary of our discussion, and the information you requested is described herein.

- Erosion controls: ST will augment the current controls by providing rumble strips (see rumble strip photo) at the site access point, and is obtaining a street sweeper attachment for the backhoe for street and site sweeping. Straw swaddles are ready for expanded use as necessary. As shown on the attached picture 'access and loading area swept clean', regular sweeping before and after each truck has kept soil and dust on the paved site area and exit to the street to a bare minimum.
- 2. Additional cubic yards: Per the attached 'Email-Wickham', based on additional sample results the ACEH is requiring the excavation be extended laterally away from the sidewalk and deeper in the central hot spot. The excavation limit and volume is described below with item 4.
- 3. Schedule: Our plan was to finish all or most excavation and soil offhaul by Monday, Nov 23. Our goal is to safety and erosion control, and we can achieve this best by resuming work quickly. If today by 3:30 pm we can get approval to resume work, we can request trucks for tomorrow morning. This will allow us to remove some from excavation bottom so we can commence backfilling with rock onsite (and two truckloads scheduled for delivery about noon. If we cannot resume work ASAP and cannot get trucks for tomorrow, the project could
extend over the Thanksgiving holidays when rain is expected. Thank you in advance for helping us get back on schedule to maximize erosion control and to ensure safety for site operations and the public.

- 4. Revised Plan of Excavation limits: Exploratory trench samples have delineated the new excavation limit acceptable to the ACEH as shown on attached 'draft excavation plan'. ACEH is requiring excavation to about 14' depth and extension to the north. The anticipated soil excavation volume is about 500-550 cubic yards. For shoring along the southern extent, a 3' thick slurry wall (about 30' long) was installed along the southern excavation to the excavation has been sloped as necessary.
- 5. **Traffic Control**: Traffic control is not needed. ST has ordered shorter trucks to allow access and egress without traffic control.

Pangea respectfully requests that you update us as quickly as possible. Allowing us to resume operations by 3:30 pm today would help resume soil offhaul tomorrow to start backfilling before the weekend. Thank you very much.

Bob Clark-Riddell, P.E. Pangea Environmental Services, Inc. 510.435.8664 direct

From: Ellsworth, Ellen [mailto:EEllsworth@oaklandnet.com]
Sent: Thursday, November 19, 2015 1:23 PM
To: Bob Clark-Riddell <<u>briddell@pangeaenv.com</u>>
Cc: James Bauer <<u>james@sustainabletech.cc</u>>; Harlan, David <<u>DHarlan@oaklandnet.com</u>>; Ray, Cliff
<<u>CRay@oaklandnet.com</u>>
Subject: RE: 1230 14th St. Grading Package Addendum

#### Bob/James

I'm available to meet with you this afternoon until 3:00 PM. Please bring copy of the Stop Work Notice. I spoke with Cliff Ray, Senior Construction Inspector, earlier and understand there are problems with the following:

- 1. Insufficient Traffic Controls; Flagman doesn't have signs and blocking of traffic.\*
- 2. Grading amount is in excess of 100 cu. yds. And, anticipated amount in permit is 50 cu. yds. with an expected 4 days to complete the work.
- 3. Lack of erosion control measures around site and at inlets.
- 4. Trucks leaving the site and dragging excess dirt and debris into the streets.

Please provide the following information when we meet or by email:

- 1. Erosion Controls must be resolved immediately. Please submit photos showing all corrections made.
- 2. Explain additional cu. yds. removal and progress update.
- 3. Provide expected completion date and updated work schedule.
- 4. Provide a revised plans showing expected limits of work.
- 5. Are traffic control measures required in the City's right-of-way to complete this work?\*

\*A permit from Traffic Engineering Services, Public Works Agency is required for any traffic control measures placed within this City's right-of-way. This is a separate permit from the Building Grading Permit.

Thank you, Ellen

Ellen Ellsworth

Assistant Engineer II Bureau of Building Planning and Building Department City of Oakland (510) 238-7204

From: Bob Clark-Riddell [mailto:briddell@pangeaenv.com]
Sent: Thursday, November 19, 2015 12:41 PM
To: Ellsworth, Ellen
Cc: James Bauer
Subject: RE: 1230 14th St. Grading Package Addendum
Importance: High

Ellen,

As you may know, inspector Cliff Ray issued a stop work order this morning. Cliff said we should be able to get back on schedule quickly to finish up and beat the rains.

I left you a voicemail this morning asking when James and I can come meet with you or appropriate people. Please contact me at your earliest convenience at 510.435.8664.

Bob Clark-Riddell, P.E. Pangea Environmental Services, Inc. 510.435.8664 direct

From: Ellsworth, Ellen [mailto:EEllsworth@oaklandnet.com]
Sent: Thursday, October 29, 2015 10:34 AM
To: James Bauer <james@sustainabletech.cc>; Bob Clark-Riddell <br/>briddell@pangeaenv.com>
Subject: RE: 1230 14th St. Grading Package Addendum

Hi James and Bob,

The Grading Permit GR1500097 and the AMR1500106 were both approved by Tim Low, Acting Building Official. The Grading Bond in the amount of the Engineer's Estimate of \$18,900.00 is required prior to issuance of the Grading Permit. The permit and approved plans have been submitted for Final Check. Wayne Wada, Process Coordinator II, or another Building Staff Coordinator, will be calling you when the permit is ready for pick up.

Thanks, Ellen

#### Ellen Ellsworth

Assistant Engineer II Bureau of Building Planning and Building Department City of Oakland (510) 238-7204

#### **Bob Clark-Riddell**

From:	Wickham, Jerry, Env. Health <jerry.wickham@acgov.org></jerry.wickham@acgov.org>
Sent:	Monday, December 07, 2015 5:37 PM
То:	Bob Clark-Riddell
Subject:	RE: RO433 Shell Station 1230 14th Street Oakland

Hi Bob,

The proposed boring locations appear acceptable. You will need to submit a work plan or work plan addendum to an existing work plan to describe how the borings will be advanced, screened, logged, and sampled.

Regards, Jerry Wickham Alameda County Environmental Health

From: Bob Clark-Riddell [briddell@pangeaenv.com] Sent: Monday, December 07, 2015 4:05 PM To: Wickham, Jerry, Env. Health Subject: RE: RO433 Shell Station 1230 14th Street Oakland

Hello Jerry,

This email follows our recent discussion about the excavation and impact at the subject site. Pangea has completed soil excavation in the planned area to below the revised screening levels. The excavation limit and soil data are summarized on attached Figure 2 and Table 1. Note that elevated TPHg and benzene (as high as 34 mg/kg benzene) impact was found about 9 to 13 ft depth and was removed to the revised screening levels.

Based on our observations during the soil excavation, Pangea is uncertain about the source of the hydrocarbons within the excavated area. The hydrocarbon source could have been from the dispenser area or from the UST area. The elevated hydrocarbon impact so close to former remediation wells suggests the fine sand impeded prior insitu remedial effectiveness around the fringe of the former UST area.

Therefore, Pangea considers the area north and northwest of the former UST area as a potential data gap with respect to case closure. To address this data gap, Pangea recommends three soil borings (and one contingent step out boring) to approximately 15 ft depth where shown on Figure 3. If you concur with this recommendation, Pangea would complete the borings soon and consider the need for any additional source excavation prior to case closure.

Please contact me with any questions. Thank you. Bob

Bob Clark-Riddell, P.E. Pangea Environmental Services, Inc. 510.435.8664 direct

From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org] Sent: Monday, November 30, 2015 4:38 PM To: 'Cook, Brigitte' <BCook@oaklandnet.com>; Michael J Taffet <mjtaffet@gmail.com> Cc: Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>; Bob Clark-Riddell <briddell@pangeaenv.com> Subject: RO433 Shell Station 1230 14th Street Oakland

### **APPENDIX B**

Permits & Open Cut Excavation Plan Drawings

	CITY OF OAKLA	ND
	Department of Planning	and Building
	BUILDING SERV	ICES
	250 Ogawa Plaza · 2nd Floor ·	Oakland, CA 94612
+	telephone (510) 238-3444 · facsimile (510) 2	38- 7287 · www.oaklandnet.com
	PERMIT INSPECTIO	ON RECORD
	Commercial and Multiple	Unit Residential
	California Building, Electrical, Plumbing, Mechanie	cal, Energy, and Green Building Codes
	Oakland Building, Planning, Sustainablit	y, Fire, and Municipal Codes
ddress:	1230 14TH ST, Oakland, CA ST Suite: 94607	APN: 005 037701901
escription:	Remove deteriorated gas pump cover and ground concrete	e as part of ongoing remediation and cleanup
	per County Health; also code enf case for city 1502516	
wner:	Saberi Andy & Zaida Trs	Issued: 08/12/2015
ontractor:	SUSTAINABLE TECHNOLOGIES	Type: Non-Residential Building -
		Alteration
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All construct All construct been signed Noise levels regulations. Follow all ha Toilet facilit Permit Exp A permit ma performed. Each permit City Inspect A Refund R performed. 1 Site M aint "Best Mana; Jobsite must stock piled on Inspection. For Building PZ) inspecti Additional Separate perp pedestrian ca Separate performed.	and inspections. Protect all documents from the weath of for all inspections. Protect all documents from the weath of and dated by the City inspector.         and Hours of Construction shall conform with the Zoning         azardous material testing, work er protection, remediation,         ties must be provided on-site for construction work ers.         piration & Refunds         ay be extended (fee required) for a total of one year from the difference         will expire separately unless each of the Major Inspection for every 6 months (or sooner). An expired permit cannot be equest must be filed for all refunds. Up to 80% of inspective for and the cleaned daily of trash and debris and maintained free of ansite. Vehicles and equipment must be park ed on-site (state)         ge (B), Electrical (E), Plumbing (P), Mechanical (M), Grad ons, call (510) 238-3851. For Public Works inspect inspections, call (510) 238-3851. For Public Works inspect inspecting are not a substitute for the Certified Ra	Instruction Management Plan must be readily available at err. ' OK TO COVER" box on this Inspection Record Card has g Conditions of Approval and Oak land Municipal Code and disposal regulations (lead-based paint, as bestos, etc.). e date of issuance only if no inspections have been s (Foundation, First Floor, Frame, Final) is approved by the pereinstated if an inspection has been performed. tion fees may be refunded if no inspections have been t has expired. to protect storm water drainage systems (C6). f graffiti. Construction materials must be neatly es 5a below). in before 10:00 am on the morning of the scheduled tions, call (510) 238-3651. For EBMUD sewer lateral ctions by a pre-Certified Rater must be also be completed. ons and approvals. bestruct the sidewalk or street in any way (scaffolding, mpsters, traffic lane closure, etc.).

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1	FOUNDATION	2	FIRST FLOOR	3	FRAME	4	FINAL	5	SITE		
	FLECTRICAL		FLECTRICAL		ELECTRICAL		ELECTRICAL		PRE-CONSTRUCTION		
E	CONSTRUCTION	E	UNDERFLOOR	E	SUBPANEL/	E	SM OKE & CO	S	PRE-CON		
10	POWER	20 F	CABLE	30	FEEDER	40 E	ALARMS EQUIPMENT/	50A S	M EETING OBSTRUCT/		
11	of Liv	21	PROTECTION	E 31		41	DEVICES	50B	ENCROACH		
E 12	CONDUT/CABLE	E 22	WIRING	E 32	BOXMAKE-UP	42	TRANSFORM ER	50C	ELEVATION		
E 13	SINGLESERVICE			E 33	SUSPENDED CELNG	E 43	ENERGY/ CALGREEN	S 50D	GRADING		
E	SERVICE			E 38	FRAME	E 86	FINAL ELECTRICAL	S 50E	CREEK PROTECTION		
-	PLUMBING		PLUM BING		PLUM BING		PLUM BING	S 50F			
P	UNDERGROUND	P	UNDERFLOOR	P	DWV	P	ROOF	S 50G	VEGETATION		
10 P	BACKWATER	20 P	DRAINS (FIRE/	D 31	GAS	40 P	GASTEST	S	DUST & EROSION		
11	VALVE	21	CONDEN/MISC)	F 31	PIPING WATER PIPING/	41 P		50H	CONTROL		
12	(SO)	22	RECEPTORS	32	SERVICE	42	RELEASE	50J	RUNOFF		
P 13	NTERCEPTOR (GREASE)			P 33	TUB / SHOWER PAN	Р 43А	ENERGYCODE/ CALGREEN	S 50K	SHORING		
				P 34	BACKFLOW DEVICES	P 44	CHLORINATION/ SIREPORTS	S 50L	& PARKING		
			ن د	P 38	FRAME	P 86	FINAL PLUMBING	S 50M	BLIGHT/NOISE/		
	MECHANICAL		MECHANICAL		MECHANICAL	読み	M EC HA NIC A L	1.1	INFRA STRUC TURE		
М	UNDERGROUND	М	UNDERFLOOR	M	SUSPEND CELNG/	M	REGISTERS/	PZ	SEWER/		
10 M	RADANT/	20 M	RADANT/	30 M	DAMPER (FIRE,	40 M	EQUIPMENT	PZ	STORM		
11	COLS	21	COLS	31	CELNG, SM OKE)	41		51			
				M 32	OUTDOORAR	M 42	GUARDS	52			
				M 33	DUCT (TYPE IHOOD)	M 43	ENERGYCOM PLY FORM S	P Z 53	HARDSCAPE		
				M		M	CALGREEN	PZ	FRE		
				34 M	EXHAUST	44 M	SIREPORTS	PZ	C3FACILITY		
	-			35 M	DUCTS FRAME	45 M	(EQ,BALANCE) FIN:AL	55 PZ	FINAL		
	1			38	<b>О.К.</b>	86	MECHANICAL	86	INFRASTR		
	BUILDING		BUILDING		BUILDING		BUILDING	0.5			
B 10	STAKING	B 20	ELEVATION	В 30	&NALNG	В 40	RETANWALL	50	OUBORADE		
B 11	SETBACKS	B 21	FIRSTFLOOR ELEVATION	B 31	ZONING ROUGH	B 41	ZONING CONDITIONS	GR 51	PAD		
В	SP NSPECT	В	SPINSPECT	В	SP NSPECT	B	SPIN SPECT	GR	SP N SPECT REPORT		
12 B	PERS	8 B	ACCESSBLITY	32 B	FIRERATED	42 B	SIGNAGE	GR	FINAL		
13		23		33	ASSEM BLY	43		86	GRADING		
B 14	GRADEBEAM			8 33A	CONSTRUCTION	B 44	ACCESSBEILT		RIGHT OF WAY		
B 15	EMBEDMENTS			B 34	SHEAR WALL BRACING	B 45	ENERGY/HERS (FORM S.REPORT)	PX 50	SDEWALK/ DRNEWAY		
				В	SUSPENDED	В	GPR COM PLANCE	PX	EBM UD LATERAL		
В	SLAB FLOOR /	В	FLOOR	35 B	FLOOR & WALL	45A B	SM OKE & CO	PX	FINAL		
16 B	VAPOR BARRIER	24 B	FRAMING INSULATION	35A B	FRAMING NSULATION	46 B	ALARM S RECYCLING	86	ROW		
17	&DRANAGE	25		36		47	CDSR	6	FIRE MARSHALL		
B 18	WALLS			В 37	COVERING	1		50	FRESPRINKLER		
			×	В 37А	WP M EM BRANE			F M 86	E IN A L F IR E (510) 238-3851		
				B 37B	EGRESS/ SAFETYGLAZNG			7	PLANNING		
			-	B 38	OKTO COVER	B 48	OKTO OCCUPY	ZC 58	ROUGH		
				B 39	TUB / SHOWER WALL		A CONTRACTOR OF A	ZC 59A	LANDSCAPE/ HARDSCAPE		
				B	GYPSUM	12		ZC 59B	SITE M PROVEMENTS		
-		-		B	FIRESAFING	В	FINAL	ZC	FINAL		
-	EQUINDATION	-	FIRSTFLOOR	39B	FRAME	86	BLDG FINALER FREEZE	86 9	PROJECT		
1	APPVD	2	APPVD	3	APPVD	98	CRAFTS	99	FINAL		

9.21.15

#### **BUILDING SERVICES**

PERMIT NO. GIR 150097

	GRADIN	G PERMIT FEE PAID: RECEPT NO
1 JOB	ADDRESS: 1230 14th Street	11. MATERIAL IMPORTED FROM: A rock Materials
2. APPI NAM	ICANT (PROPERTY OWNER)	
ADD	RESS 10 45 Airport Blud	12. HAUL ROUTE: 880 -> 14+4 -> 880 HWV
3.CONT	RACTOR Sustainable Jack hologies	
LICE	NSE# 777329 PHONE 573 112	>
ADD	RESS 1800 Orion St. Alameda 94	AND DECLIESTED STADTING DATE: (130 and
4. CIVIL	ENGINEER IN CHARGE: Bob Clark - Riddell	DATE OF CONDICTION STARTING DATE STARTING DATE
RĊE	#PHONE	DATE OF COMPLETION: V JENT / 2013
ADD	RESS 1710 Franklin Oakland	14. 10 AL ESTIMATED COST OF GRADING WORK:
5. GRAD	ING PLAN PREPARED BY: Bib Clark Miller 510	(ATTACH ESTIMATE SHEET)
RCE	#PHONE_435-8664	15. EROSION CONTROL PROTECTION TO BE USED:
6. TEST	ING & INSPECTION BY BUT Charle-Pidley 570	Waddels on Fence line
RCE	# <u>C49639</u> PHONE 475-8669	Cover Soil Pile
` ADDI	RESS THO FRANKIN ST ONVIAND	16. ADDITONAL INFORMATION SUBMITTED:
7.PURPO	DSE OF GRADING TO remove	Approval Letter from
CAL	taminated Spil	Alameda Co Environmental Health
		+ Wark Plan
8. GRAD	EXCAVATION 35 CUBIC YARDS	17 BONDS: Total Estimate \$18,900 anount
52	FILL 35 CUBIC VARDS	D RÉPEODMANCE
9. EQUIP	WENT TO BE USED: John Deer	C ERBOR AND MATERIALS \$
Dac	KNOE	LI EROSION CONTROL \$
10. EXCE	ESS MATERIAL HAULED TO: <u>Fand Fill</u>	18. APPROVALS: BY DATE
(#1	ra mont /	ENGINEERING SERVICES: ALANTEE 22 10 2315
		PLANNING DEPT. CHIR- CROWN COOL XED 12/13/183
	·	OTHERS
The permi	t issued pursuant to all provisions of Chapter 6, Article 2 of the Oakland	
Municipal right of wa	Code, "Grading, Excavations and Fills," Any work within the dedicated public y construction in a watercourse, building construction or blasting is subject to	AJPA AMIL data
additional   shall be re	permits. This permit is granted upon the express condition that the permittee	Bot 10 All 8/13/15
permit of a	rising out of permittee's failure to perform the obligations with respect to this	CIVIL ENGINEER IN CHARGE DATE
indemnify,	e permittee shall, and by acceptance of the permit agrees to, defend, save and hold harmless the City, its officers and employees, from and against	8/13/15
any and all	suits, claims or actions brought by any person for or on account of any bodily	
ա տասնենն, նվե	lease of illness or damage to persons and/or property suctained or pricing in	OWNER, OR OWNER'S AGENT DATE
the constru	sease or illness or damage to persons and/or property sustained or arising in ction of the work performed under the permit or in consequence of permittee's afform the obligations with respect to the second	OWNER, OR OWNER'S AGENT DATE  APPROVED BY THE DEPUTY DIRECTOR OF PLANNING & BUILDING
the constru failure to pe	sease or illness or damage to persons and/or property sustained or arising in ction of the work performed under the permit or in consequence of permittee's erform the obligations with respect to this permit.	OWNER, OR OWNER'S AGENT DATE APPROVED BY THE BEPUTY DIRECTOR OF PLANNING & BUILDING BY
failure to pe	sease or illness or damage to persons and/or property sustained or arising in ction of the work performed under the permit or in consequence of permittee's erform the obligations with respect to this permit.	OWNER, OR OWNER'S AGENT DATE APPROVED BY THE BEPUTY DIRECTOR OF PLANNING & BUILDING BY DATE TIONS OF PERMIT
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Applicant Job Copy

### J.M. TURNER ENGINEERING, INC.



CONSULTING ENGINEERS

CIVIL ENGINEERING STRUCTURAL ENGINEERING CONSTRUCTION ENGINEERING

## FORMER SHELL SERVICE STATION 1230 14<sup>TH</sup>. STREET OAKLAND, CA

## OPEN CUT EXCAVATION SLOPE STABILITY CALCULATIONS

## PANGEA Environmental Services 1710 Franklin St., Suite 200 Oakland, CA 94612

The maximum depth of the proposed excavation shall be 10' max. Soil parameters are based on site specific information provided by Pangea, project #1150.001Boring # SG-6 Soil parameters used are as shown below.

A surcharge load for equipment at the top of the slope is based on a setback distance of 4' from the edge of the excavation.

1) Soil Parameters:

Cohesion = 100 psf, Internal Angle of Friction = 30 degrees, Soil Unit Weight = 120 pcf.

The safety factor for the proposed sloped excavation is 1.49. See attached calculations. Groundwater level shall be maintained at or below the bottom of the excavation.



DATE: 08/27/2015 DESIGN BY: A.J.V. SHEET NO: 1 of 5 JOB#: 14569-1

1325 COLLEGE AVE. • SANTA ROSA, CA 95404-3909 • (707) 528-4503 FAX (707) 528-4505



Galena 4.02 Analysis Results

Project: PANG File: P:\1	EA Environmen 4000 Series\1	tal Services 4500 Series\1	Inc. 14569\10	ft max lto 1 12	30 14 th s	street Oakland.g	nProcessed:	16:57:10 27 A	ıg 2015
DATA: Analysis	s 1 - 1230 14	th st Oakland	d, 10' max w	/ 1H:1V Slope					
Material and W	later Properti	es (1 materia	al)						
Material: 1 ( Cohesion 100.00 3	(Mohr-Coulomb Phi UnitWeig 30.0 120.00	Isotropic) - ht Ru 1.10	Sands (SM)						
Unit weight of	f water: 62.40	10 1	Unit weight	of water/medium	n above gro	ound: 62.400			
Material Profi	iles (1 profil	.e)					×		
Profile: 1 (2 -10.00	2 points) Ma 10.00	terial benea 55.00	th: 1 - Sar 10.00	nds (SM)					
Slope Surface	(4 points)								
-10.00	0.00	0.00	0.00	10.00	10.00	55.00	10.00		
Phreatic Surfa	ace (2 points)								
-10.00	0.00	60.00	0.00			3			
Distributed L	oads (1 load)								
Load X	-Left Pre: 14.00 3	ssure 00.0	X-Right 26.00	Pressure 300.0					
Failure Surfa	ce								
Initial circu Circle centre Intersections	lar surface for the surface fo	or critical s 0.42 YC: 0.00 YL:	earch defin 13.99 0.00	ed by: XL,XR,R Circle radiu XR: 13.00	s: R: YR:	14.00 10.00			
Generated fai 0.00 4.50 8.48 11.50	lure surface 0.00 0.89 3.18 6.64	(20 points) 0.92 5.36 9.17 11.95	0.06 1.24 3.79 7.44	1.83 6.18 9.82 12.36	0.18 1.65 4.45 8.27	2.74 6.98 10.43 12.71	0.35 2.11 5.14 9.13	3.63 7.75 10.99 13.00	0.59 2.62 5.87 10.00
Variable Rest	raints								
Parameter des Range of vari Trial positio	criptor: ation: ons within ran	XL 14.00 ge: 10	XR 28.00 10	R 25.00 10					

RESULTS: Analysis 1 - 1230 14th st Oakland, 10' max w/ 1H:1V Slope

Bishop Simplified Method of Analysis - Circular Failure Surface

Critical Failure Circle Search using Multiple Circle Generation Techniques

Factor of Safety for initial failure circle approximation: 1.49 There were: 463 successful analyses from a total of 1001 trial circles 538 analyses aborted due to unacceptable geometry

Critical (minimum) Factor of Safety: 1.49

Negative normal stresses exist on the base of one or more slices - examine slice data and consult the Galena Users' Guide

Circle and Results Summary (Lowest 99 Factor of Safety circles)

Circle	X-Centre	Y-Centre	X-Left	Y-Left	X-Right	Y-Right	Radius	FoS
1	-0.42	13.99	0.00	0.00	13.00	10.00	19.00	1 526
2	-1.33	18.82	0.78	0.78	14.30	10.00	10.17	1.520
3	-3.03	21.37	0.78	0.78	14.56	10.00	20.94	1.521
4	-0.20	20.94	-0.78	0.00	17.67	10.00	20.94	1.531
5	0.13	15.36	-0.78	0.00	14.56	10.00	15.39	1.533
6	-4.70	23.86	0.78	0.78	14.56	10.00	23.72	1.537
ž	-0.73	13.30	0.78	0.78	11.44	10.00	12.61	1.547
8	-2.61	27.06	0.78	0.78	17.67	10.00	26.50	1.547
ġ	0.45	16.16	0.78	0.78	14.56	10.00	15.39	1.547
10	-1.17	24.42	0.78	0.78	17.67	10.00	23.72	1.550
11	-6.33	26.31	0.78	0.78	14.56	10.00	26.50	1.550
12	0.31	21.72	0.78	0.78	17.67	10.00	20.94	1.562
13	-0.25	20.84	-2.33	0.00	17.67	10.00	20.94	1.563
14	1.38	18.04	-0.78	0.00	17.67	10.00	18.17	1.565
15	0.07	15.20	-2.33	0.00	14.56	10.00	15.39	1.575
16	1 26	17.81	-2.33	0.00	17.67	10.00	18.17	1.584
17	-2.84	15 74	0.78	0.78	11.44	10.00	15.39	1.584
18	1 63	10 57	0.78	0.78	11.44	10.00	9.83	1.586
19	-0.37	20.65	-3.89	0.00	17.67	10.00	20.94	1.589

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23.63 17.47 9.54 20.36 14.90 17.02 12.53 18.04 23.45 12.27 13.29 19.99 16.46 14.90 18.05 14.46 23.20 11.87 20.29 23.63 17.68 17.81 13.87 12.27 26.49 8.98 17.81 13.87 12.27 26.49 8.98 17.81 12.15 12.27 26.24 22.82 13.87 23.26 24.25 17.47 23.26 19.53 20.29 23.63 17.68 12.15 12.27 26.24 22.82 13.87 23.26 19.53 20.29 23.68 17.47 23.26 24.47 23.26 19.53 20.29 23.68 17.47 23.26 24.77 13.29 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.65 19.53 20.69 19.57 17.47 23.26 27.77 24.47 1.57 17.60 21.57 17.67 17.67 17.47 22.52 14.96 1.57 17.67 17.47 24.93 24.95 24.95 24.95 24.95 24.95 24.95 24.95 24.95 24.95	-3.89 -3.89 -3.89 -5.44 -2.33 -5.44 -2.33 -5.44 -7.00 -7.00 -7.00 -7.00 -7.00 -7.00 -2.33 -7.00 -2.33 -5.44 -2.33 -7.00 -2.33 -5.44 -2.33 -7.00 -2.33 -3.89 -3.89 -3.89 -3.89 -3.89 -5.44 -3.389 -3.89 -5.44 -3.389 -5.44 -3.389 -5.44 -3.389 -5.44 -3.389 -5.44 -3.389 -5.44 -3.33 -7.00 -2.33 -7.00 -2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -5.44 -2.33 -7.00 2.33 -7.00 2.33 -5.44 -2.33 -7.00 2.33 -5.44 -2.33 -5.44 -2.33 -5.44 -2.33 -5.44 -2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00 2.33 -7.00	$\begin{array}{c} 0.00\\$	$\begin{array}{c} 17.67\\ 17.67\\ 11.44\\ 17.67\\ 11.44\\ 17.67\\ 14.56\\ 17.67\\ 14.56\\ 17.67\\ 14.56\\ 17.67\\ 17.67\\ 17.67\\ 17.67\\ 17.67\\ 17.67\\ 17.67\\ 17.67\\ 17.67\\ 14.56\\ 20.78\\ 11.44\\ 14.56\\ 17.67\\ 17.67\\ 17.67\\ 14.56\\ 20.78\\ 11.44\\ 11.44\\ 11.44\\ 20.78\\ 17.67\\ 14.56\\ 20.78\\ 17.67\\ 14.56\\ 20.78\\ 17.67\\ 14.56\\ 20.78\\ 17.67\\ 14.56\\ 20.78\\ 17.67\\ 14.56\\ 20.78\\ 17.67\\ 20.78\\ 20.78\\ 17.67\\ 20.78\\ 20.78\\ 17.67\\ 20.78\\ 20.78\\ 20.78\\ 17.67\\ 20.78\\ 20.78\\ 20.78\\ 11.44\\ 20.78\\ 20.78\\ 11.44\\ 20.78\\ 20.78\\ 11.44\\ 17.67\\ 20.78\\ 20.78\\ 11.44\\ 20.78\\ 20.78\\ 11.44\\ 20.78\\ 20.78\\ 11.44\\ 20.78\\ 20.78\\ 11.44\\ 20.78\\ 20.78\\ 11.44\\ 20.78\\ 20.78\\ 11.44\\ 20.78\\ 20.78\\ 11.44\\ 20.78\\ 20.78\\ 11.44\\ 20.78\\ 23.89\\ 11.44\\ 23.89\\ 23$	10.00 10	23.72 18.17 9.83 20.94 15.39 18.17 12.61 12.61 12.61 12.61 12.61 12.61 12.61 12.61 12.61 12.61 12.61 12.61 15.39 15.39 15.39 15.39 15.39 15.39 15.39 15.39 15.39 15.39 15.39 15.39 15.39 15.39 15.39 23.72 23.72 23.72 23.72 23.72 23.72 15.39 23.72 23.72 23.72 23.72 23.72 15.39 23.72 15.39 23.72 23.72 15.39 23.72 23.72 15.39 23.72 15.39 23.72 15.39 23.72 23.72 15.39 23.72 23.72 23.72 23.72 15.39 23.72 23.72 23.72 23.72 15.39 23.72 23.72 15.39 23.72 23.72 23.72 23.72 15.39 23.72 23.72 23.72 15.39 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.94 20.50 20.94 20.	$\begin{array}{c} 1.596\\ 1.599\\ 1.605\\ 1.609\\ 1.610\\ 1.610\\ 1.610\\ 1.624\\ 1.624\\ 1.624\\ 1.629\\ 1.639\\ 1.640\\ 1.629\\ 1.640\\ 1.650\\ 1.650\\ 1.650\\ 1.650\\ 1.650\\ 1.650\\ 1.650\\ 1.650\\ 1.650\\ 1.650\\ 1.650\\ 1.650\\ 1.664\\ 1.673\\ 1.673\\ 1.673\\ 1.673\\ 1.673\\ 1.673\\ 1.679\\ 1.681\\ 1.693\\ 1.695\\ 1.695\\ 1.699\\ 1.701\\ 1.702\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.705\\ 1.757\\ 1.758\\ 1.759\\ 1.757\\ 1.758\\ 1.759\\ 1.763\\ 1.771\\ 1.771\\ 1.789\\ 1.791\\ 1.796\\ 1.799\\ 1.833\\ 1.833\\ 1.834\\ \end{array}$	
Intersections: XL: Generated failure su	0.0 urface: (	0 YL: 20 points)	0.00	XR: 13.	00 YR:	10.00	0.74	0.25
0.00 0.00 4.50 0.89 8.48 3.18 11.50 6.64		0.92 5.36 9.17 11.95	1.24 3.79 7.44	6.18 9.82 12.36	1.65 4.45 8.27		6.98 10.43 12.71	2.11 5.14 9.13

4

0.59 2.62 5.87 10.00

3.63 7.75 10.99 13.00

Slice (	Geometry	and	Properties	(40	slices)
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									122		100
Slice	X-Left	Width	Y-Top	Y-Base	Base	Base	Base	Total	PoreWater	Normal	Test
	a. 1939a.	10 March 10			Angle	Matl	Cohesion	Weight	Force	Stress	Factor
1	0.00	0.31	0.15	0.01	3.6	1	100.00	5.29	0.00	12.12	0.98
2	0.31	0.31	0.46	0.03	3.6	1	100.00	15.87	0.00	46.39	0.98
3	0.61	0.31	0.77	0.05	3.6	1	100.00	26.45	0.00	80.07	0.98
4	0.92	0.30	1.07	0.08	7.4	1	100.00	36.40	0.00	105.45	0.96
5	1.23	0.30	1.38	0.12	7.4	1	100.00	46.11	0.00	135.77	0.96
6	1.53	0.30	1.68	0.16	7.4	1	100.00	55.81	0.00	166.10	0.96
7	1.83	0.30	1.99	0.21	11.1	1	100.00	64.40	0.00	186.13	0.95
8	2.14	0.30	2.29	0.27	11.1	1	100.00	73.16	0.00	213.13	0.95
9	2.44	0.30	2.59	0.32	11.1	1	100.00	81.92	0.00	240.12	0.95
10	2.74	0.30	2.89	0.39	14.9	1	100.00	88.88	0.00	255.06	0.94
11	3.04	0.30	3.18	0.47	14.9	1	100.00	96.64	0.00	278.76	0.94
12	3.33	0.30	3.48	0.55	14.9	1	100.00	104.41	0.00	302.46	0.94
13	3.63	0.29	3.78	0.64	18.7	1	100.00	109.52	0.00	312.52	0.93
14	3.92	0.29	4.07	0.74	18.7	1	100.00	116.25	0.00	332.96	0.93
15	4 21	0.29	4.36	0.84	18.7	1	100.00	122.98	0.00	353.39	0.93
16	1.50	0.43	4.72	0.98	22.5	ī	100.00	191.27	0.00	363.05	0.93
17	1.00	0.43	5.14	1.15	22.5	1	100.00	204.04	0.00	388.89	0.93
18	5 36	0.41	5 56	1 34	26.2	î	100.00	209.44	0.00	397.52	0.94
10	5 77	0.41	5 98	1.55	26.2	ĩ	100.00	219.84	0.00	418.65	0.94
20	6 18	0.41	6 38	1.76	30.0	ī	100.00	221.29	0.00	421.31	0.94
21	6 58	0.40	6 78	1 99	30.0	î	100.00	229.36	0.00	437.84	0.94
22	6 08	0.39	7 17	2 24	33 8	î	100.00	226.93	0.00	434.72	0.96
22	7 36	0.30	7 56	2 10	33.8	1	100.00	232.75	0.00	446.79	0.96
23	7.30	0.30	7 03	2.15	37 6	1	100.00	226 62	0 00	438.06	0.97
29	0 11	0.37	9 30	3.04	37 6	1	100.00	230 32	0.00	445.86	0.97
25	0.11	0.37	0.50	3 34	A1 3	1	100.00	220 77	0.00	431.72	0.99
20	0.40	0.35	0.00	3.34	41.3	1	100.00	222 50	0.00	135 14	0.99
21	8.82	0.35	9.00	3.04	41.5	1	100.00	200 02	0.00	416 09	1 02
28	9.17	0.33	9.55	3.90	45.1	1	100.00	209.92	0.00	415 08	1 02
29	9.50	0.33	9.00	4.20	40.1	1	100.00	111 00	0.00	302 12	1 05
30	9.82	0.18	9.91	4.33	40.9	1	100.00	261 04	0.00	370 06	1.05
31	10.00	0.43	10.00	4.90	48.9	1	100.00	201.94	0.00	310.90	1.05
32	10.43	0.28	10.00	5.32	52.7	1	100.00	130.87	0.00	313.79	1.05
33	10.71	0.28	10.00	5.69	52.1	1	100.00	144.37	0.00	204.02	1.09
34	10.99	0.25	10.00	6.07	56.4	1	100.00	120.30	0.00	234.20	1.14
35	11.24	0.25	10.00	6.45	56.4	1	100.00	108.55	0.00	205.08	1.14
36	11.50	0.23	10.00	6.84	60.2	1	100.00	86.76	0.00	100.07	1.20
37	11.73	0.23	10.00	7.24	60.2	1	100.00	75.77	0.00	127.43	1.20
38	11.95	0.40	10.00	7.86	64.0	1	100.00	103.96	0.00	66./1	1.27
39	12.36	0.35	10.00	8.70	67.8	1	100.00	54.49	0.00	-4.05	1.36
40	12.71	0.29	10.00	9.56	71.5	1	100.00	15.32	0.00	-68.72	1.46



Former Shell Service Station 1230 14th Street Oakland, California



**Proposed Excavation Area** 

#### GENERAL NOTES

- 1. PROVIDE ACCESS AND BARRICADING PER OSHA REQUIREMENTS.
- 2. CONTRACTOR TO VERIFY THE LOCATION & SIZE OF ALL EXISTING UNDERGROUND UTILITIES AND/OR PIPES, PRIOR TO COMMENCING THE EXCAVATION, IN ORDER TO ELIMINATE ANY CONFLICTS WITH THE SHORING SYSTEM.
- 3. THIS PLAN IS DESIGNED STRICTLY FOR PROTECTION OF WORKERS. LAYOUT IS PER CONTRACT DRAWINGS, CONTRACTOR TO VERIFY THAT THERE IS SUFFICIENT CLEARANCE & WORKING SPACE.
- 4. THIS PLAN IS IN ACCORDANCE WITH FEDERAL AND/OR STATE OSHA REGULATIONS, DESIGN BY A REGISTERED CIVIL ENGINEER.
- 5. THESE PLANS ARE NOT INTENDED TO SHOW THE METHOD AND MEANS OF EXCAVATION OF THE WORK, WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. CONTRACTOR SHALL HAVE A COMPETENT PERSON AT THE SITE WHERE THIS PLAN IS IN USE. HE/SHE SHALL BE RESPONSIBLE MAKING SURE THAT ALL ELEMENTS OF THIS PLAN ARE ADHERED TO AND SHALL NOTIFY THE ENGINEER IF CONDITIONS ENCOUNTERED ARE DIFFERENT THAN ANTICIPATED AND SHOWN ON THIS PLAN. IF CONDITIONS ARE DIFFERENT, THIS PLAN MUST BE MODIFIED TO COVER THOSE CONDITIONS OR A NEW PLAN SHALL BE USED.
- 7. IF ANY EXISTING STRUCTURE(S), BUILDING(S) OR RAILROAD(S), NOT ALREADY SHOWN ON THE SHORING PLANS, IS (ARE) WITHIN A DISTANCE EQUAL TO THE DEPTH OF EXCAVATION, (FROM EDGE OF EXCAVATION TO STRUCTURE) THE CONTRACTOR SHALL CONTACT J.M. TURNER ENGINEERING FOR PLAN REVIEW AND/OR POSSIBLE PLAN REVISIONS.
- 8. IF EXISTING PARALLEL UTILITIES, NOT ALREADY SHOWN ON THE SHORING PLANS, ARE 48" IN DIAMETER OR LARGER AND ARE CLOSER THAN 48" FROM THE EDGE OF THE EXCAVATION THE CONTRACTOR SHALL CONTACT J.M. TURNER ENGINEERING FOR PLAN REVIEW AND/OR PLAN REVISIONS.

#### OPEN CUT NOTES:

- 9. CONTRACTOR TO VERIFY THAT REQUIRED CLEARANCES ARE OBTAINED.
- 10, EQUIPMENT MAY OPERATE FROM THE SPOIL PILE SIDE AS LONG AS REQUIRED SETBACK IS MAINTAINED.
- 11. CONTRACTOR IS REQUIRED TO NOTIFY A REPRESENTATIVE @ J.M. TURNER ENGINEERING @ (707) 528-4503 3 TO 4 DAYS PRIOR TO START OF EXCAVATION TO SCHEDULE A SITE VISIT 1 TO 2 DAYS AFTER START OF EXCAVATION IF DEEMED NECESSARY BY J.M. TURNER ENGINEERING.
- 12. IF SLOUGHING OR RAVELING OCCURS DECREASE SLOPING GRADIENT TO PREVENT FURTHER RAVELING OR SLOUGHING OF THE SOILS.
- 13. PROTECT THE SLOPE DURING WET WEATHER, BY USE OF VISQUEEN WITH SAND BAGS OR EQUIVALENT MATERIAL. CONTRACTOR TO COMPLY WITH PROJECTS SWPPP.
- 14. SOILS ARE BASED ON THE GEOTECHNICAL BORE LOGS (BORING SG-6) PREPARED BY PANGEA ENVIRONMENTAL SERVICES DATED 09/18/14 PROJECT No. 1150.001.

# PANGEA

ENVIRONMENTAL SERVICES 1710 FRANKLIN STREET, SUITE 200 OAKLAND, CA 94612

FORMER SHELL SERVICE STATION 1230 14th STREET OAKLAND, CA

### OPEN CUT EXCAVATION PLAN

#### **INDEX:**

SHEET S/1 COVER PAGE SHEET S/2 PLAN VIEW & SECTIONS

# TIM

	REVISIONS BY
STEEL REQUIREMENTS • N/A WELDING REQUIREMENTS • N/A	FORMER SHELL SERVICE STATION 1230 14th STREET 0AKLAND, CA OPEN CUT EXCAVATION PLAN
<ul> <li>N/A</li> <li>DEWATER INSIDE THE EXCAVATION AS NEEDED TO ALLOW CONSTRUCTION AND/OR REQUIRED WORK OPERATIONS.</li> <li>DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR. IF DEWATERING WELLS, SPECIAL SUMP PUMPS OR ANY REQUIREMENTS FOR DEWATERING ARE REQUIRED BY THE REVIEWING AGENCY, CONTRACTOR SHALL ADDRESS THIS IN A SEPARATE SUBMITTAL.</li> </ul>	PANGEA ENVIRONMENTAL SERVICES 1710 FRANKLIN STREET, SUITE 200 OAKLAND, CA 94612
DEWATERING WELLS MAY BE REQUIRED (AS MANY AS NEEDED) TO MAINTAIN THE WATER LEVEL AT THE BOTTOM OF THE EXCAVATION.	L.M. TURNER ENGINEERING, INC. CONSULTING ENGINEERS 1325 COLLEGE AVE., SANTA ROSA, CA. 95404 (707) 528-4503 FAX (707) 528-4505
PROFESSION PROFES	SCALE: VARIES DATE: 08/27/15 DRAWN BY: A.B.B. CHECKED BY: A.J.V. DRAWING NO: 14569–1/ S1 SHEET: 1 OF 2



#### Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

#### Application Approved on: 11/24/2015 By jamesy

Permit Numbers: W2015-1045 to W2015-1050 Permits Valid from 11/25/2015 to 11/30/2015

Application Id: Site Location: Project Start Date: Assigned Inspector:	1447364245243 1230 14th Street 11/25/2015 Contact Lindsay Furuyama at (925) 956-231	City of Project Site:Oakland Completion Date:11/30/2015 2311 or Lfuruyama@groundzonees.com		
Applicant:	Pangea Environmental Services - Elizabeth	<b>Phone:</b> 510-965-5489		
Property Owner:	Avery 1710 Franklin Street #200, Oakland, CA 94 Andy Saberi 1045 Airport Blvd, South San Francisco, CA	612 Phone: 94080		
Client: Contact:	Morgan Gillies	Phone: 408-910-1783 Cell:		

	Total Due:	\$2382.00
Receipt Number: WR2015-0570 Payer Name : Robert Clark-Riddell	Total Amount Paid: Paid By: VISA	\$2382.00 PAID IN FULL
•	•	

#### Works Requesting Permits:

Well Destruction-Monitoring - 6 Wells Driller: Cascade Drilling, L.P. - Lic #: 938110 - Method: press

#### Specifications Permit # Issued Date Expire Date Owner Well Hole Diam. Casing Seal Depth Max. Depth State Well # Orig. DWR # Diam. ld Permit # W2015-11/24/2015 02/23/2016 AS-3 6.00 in. 1.00 in. 21.00 ft 25.00 ft 1045 11/24/2015 02/23/2016 AS-5 6.00 in. 1.00 in. 21.00 ft 25.00 ft W2015-1046 W2015-11/24/2015 02/23/2016 DP-2 10.00 in. 4.00 in. 7.00 ft 23.00 ft 1047 11/24/2015 02/23/2016 DP-3 10.00 in. 4.00 in. 7.00 ft 23.00 ft W2015-1048 W2015-11/24/2015 02/23/2016 MW-1 8.00 in. 2.00 in. 6.00 ft 22.00 ft 1049 W2015-11/24/2015 02/23/2016 VW/MW-4 4.00 ft 20.00 ft 8.00 in. 2.00 in. 1050

#### **Specific Work Permit Conditions**

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Work Total: \$2382.00

#### Alameda County Public Works Agency - Water Resources Well Permit

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

8. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

10. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

11. Remove the Christy box or similar structure. Tremie Grout with Cement (More than 30 ft in depth). After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

12. No work allowed on November 26 and 27th date.

APPENDIX C Photographs



Site Entrance/Exit

Site Entrance/Exit with Rumble Strips



CDF Slurry Wall at Southern Boundary

Open excavation with CDF Slurry Wall





Compaction of backfill with Sheep's Foot Roller

Backfilling near completion



Plastic Covering Site After Excavation Completion

### **APPENDIX D**

Air Monitoring Report & Standard Operating Procedures

Sustainable Technologies

**Environmental Remediation** 

#### 1230 14<sup>th</sup> St Excavation

**Air Monitoring Report** 

Air monitoring Conducted with Multi Rae Plus.

Multi Rae was used to monitor air conditions on site and the perimeter of the site. The unit was also used to preliminarily test soil samples prior to sending samples to lab. Staff also had a Four gas Meter on their persons during the construction Last calibrated on November 16, 2015

Vapors were mitigated during construction. Soil was direct loaded on to trucks to minimize volatiles. When soil was stockpiled between trucks the soil was covered with Visqueen. Periodically throughout the job when needed the material excavated was sprayed with biodegradable formula to suppress odors. Additional Staff was utilized to spray the materials.

Date	Time	CO	VOC	H₂S	LEL	<b>O</b> <sub>2</sub>	Initial
11/16	9:30	0	0	0	0	20.9	SAM
11/16	10:35	1	0	0	0	20.9	SAM
11/16	11:00	0	0	0	0	20.9	SAM
11/16	13:00	0	0	0	0	20.9	SAM
11/16	14:00	2	0	0	0	20.9	SAM
11/16	16:00	0	0	0	0	20.9	SAM
11/17	9:00	0	0.2	0	0	20.9	SAM
11/17	9:15	0	64.1	0	0	20.9	SAM
11/17	9:30	0	7	0	0	20.9	SAM
11/17	9:45	0	1.4	0	0	20.9	SAM
11/17	10:15	0	0.2	0	0	20.9	SAM
11/17	10:30	0	0	0	0	20.9	SAM
11/17	10:45	0	6.4	0	0	20.9	SAM
11/17	13:00	0	13	0	0	20.9	SAM
11/17	14:00	0	0	0	0	20.9	SAM



## Sustainable Technologies

Environmental Remediation

11/18	9:00	0	.2	0	0	20.9	SAM
11/18	10:00	0	0.1	0	0	20.9	SAM
11/18	11:00	0	0.3	0	0	20.9	SAM
11/18	13:30	0	.2	0	0	20.9	SAM
11/18	14:00	0	0	0	0	20.9	SAM
11/19	9:00	0	13	0	0	20.9	SAM
11/19	10:00	0	49	0	0	20.9	SAM
11/19	11:00	0	2.5	0	0	20.9	SAM
11/19	13:00	0	3	0	0	20.9	SAM
11/19	14:00	0	0	0	0	20.9	SAM
11/20	9:30	0	.2	0	0	20.9	SAM
11/20	10:00	2	.3	0	0	20.9	SAM
11/20	10:30	1	0	0	0	20.9	SAM
11/20	10:40	0	1.1	0	0	20.9	SAM
11/20	11:00	0	.2	0	0	20.9	SAM
11/20	12:00	2	.3	0	0	20.9	SAM
11/21	10:00	0	1.1	0	0	20.9	JB
11/21	11:00	0	.8	0	0	20.9	JB
11/21	13:00	0	.4	0	0	20.9	JB
11/21	14:00	0	0	0	0	20.9	JB
11/23	9:00	0	.1	0	0	20.9	JB
11/23	10:00	0	.2	0	0	20.9	JB
11/23	11:00	0	0	0	0	20.9	JB
11/23	13:00	0	2.4	0	0	20.9	JB
11/23	14:00	0	.1	0	0	20.9	JB
11/23	15:00	0	.2	0	0	20.9	JB
11/23	16:00	0	0	0	0	20.9	JB
11/24	9:00	0	0	0	0	20.9	JB
11/24	10:00	0	0	0	0	20.9	JB
11/24	11:00	0	0	0	0	20.9	JB
11/24	13:00	0	0	0	0	20.9	JB
11/24	14:00	0	0	0	0	20.9	JB
11/25	8:00	0	.2	0	0	20.9	SAM
11/25	9:00	0	.1	0	0	20.9	SAM

## Sustainable Technologies

## **Environmental Remediation**

11/2510:00000020.9SAM11/2511:00000020.9SAM11/2513:00000020.9SAM11/309:00000020.9JB11/3010:00000020.9JB11/3011:00000020.9JB11/3011:00000020.9JB11/3014:00000020.9JB12/19:00000020.9JB12/110:00000020.9JB12/111:00000020.9JB12/111:00000020.9JB12/111:00000020.9JB12/111:0000020.9JB12/111:0000020.9JB12/29:0000020.9JB12/210:0000020.9JB12/211:0000020.9JB12/211:0000020.9JB12/211:0000020.9JB12/211:00000020.9JB								
11/2511:00000020.9SAM11/2513:00000020.9SAM11/309:00000020.9JB11/3010:00000020.9JB11/3011:00000020.9JB11/3011:00000020.9JB11/3013:00000020.9JB11/3014:00000020.9JB12/19:00000020.9JB12/110:00000020.9JB12/111:00000020.9JB12/111:00000020.9JB12/111:00000020.9JB12/113:00000020.9JB12/29:00000020.9JB12/210:00000020.9JB12/211:00000020.9JB12/213:00000020.9JB12/214:00000020.9JB12/214:00000020.9JB12/214:00	11/25	10:00	0	0	0	0	20.9	SAM
11/2513:000000020.9SAM11/309:000000020.9JB11/3010:00000020.9JB11/3011:00000020.9JB11/3013:00000020.9JB11/3014:00000020.9JB11/3014:00000020.9JB12/19:00000020.9JB12/110:00000020.9JB12/111:00000020.9JB12/113:00000020.9JB12/29:00000020.9JB12/210:00000020.9JB12/211:00000020.9JB12/211:00000020.9JB12/211:00000020.9JB12/214:00000020.9JB12/214:00000020.9JB12/214:00000020.9JB	11/25	11:00	0	0	0	0	20.9	SAM
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11/3010:00000020.9JB11/3011:00000020.9JB11/3013:00000020.9JB11/3014:00000020.9JB12/19:00000020.9JB12/110:00000020.9JB12/111:00000020.9JB12/113:00000020.9JB12/114:00000020.9JB12/29:00000020.9JB12/210:00000020.9JB12/213:00000020.9JB12/214:00000020.9JB12/214:00000020.9JB12/214:00000020.9JB	11/30	9:00	0	0	0	0	20.9	JB
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12/113:00000020.9JB12/114:00000020.9JB12/29:00000020.9JB12/210:00000020.9JB12/211:00000020.9JB12/213:00000020.9JB12/214:00000020.9JB	12/1	11:00	0	0	0	0	20.9	JB
12/114:00000020.9JB12/29:00000020.9JB12/210:00000020.9JB12/211:00000020.9JB12/213:00000020.9JB12/214:00000020.9JB	12/1	13:00	0	0	0	0	20.9	JB
12/2       9:00       0       0       0       0       20.9       JB         12/2       10:00       0       0       0       0       20.9       JB         12/2       11:00       0       0       0       0       20.9       JB         12/2       13:00       0       0       0       0       20.9       JB         12/2       14:00       0       0       0       0       20.9       JB	12/1	14:00	0	0	0	0	20.9	JB
12/2       10:00       0       0       0       0       20.9       JB         12/2       11:00       0       0       0       0       20.9       JB         12/2       13:00       0       0       0       0       20.9       JB         12/2       14:00       0       0       0       0       20.9       JB	12/2	9:00	0	0	0	0	20.9	JB
12/2         11:00         0         0         0         20.9         JB           12/2         13:00         0         0         0         0         20.9         JB           12/2         14:00         0         0         0         0         20.9         JB	12/2	10:00	0	0	0	0	20.9	JB
12/2       13:00       0       0       0       0       20.9       JB         12/2       14:00       0       0       0       0       20.9       JB	12/2	11:00	0	0	0	0	20.9	JB
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	12/2	14:00	0	0	0	0	20.9	JB

**James Bauer** 

Construction Manager **Sustainable Technologies** <u>www.sustainabletech.cc</u> 1800 Orion St Suite 101 Alameda, CA 94501 510 523-1122 phone / 510 504-2873 Cell License #772329 A, C-10, HAZ, HIC, 8(a), MBE, SBE, Bay Area Green Business

#### STANDARD FIELD PROCEDURES FOR EXCAVATION SAMPLING

During remedial excavation activities compliance sampling is typically required to assess the extent of the contamination remaining in site soil. Pangea has developed standard field procedures for compliance sampling and excavation to provide sample collection, handling and documentation in compliance with State and local regulatory agency regulations.

#### **Soil Sampling**

Soil samples are typically collected from the bottom and sidewalls of the excavation. If water is present in the excavation, soil samples are typically collected from the soil/water interface. The soil samples are collected in steam-cleaned brass or steel tubes from either a driven split-spoon type sampler or the bucket of a backhoe or excavator. When a backhoe or excavator is used, approximately three inches of soil are scraped from the surface and the tube is driven into the exposed soil. The location and number of samples is determined by the environmental professional and/or regulatory agency representatives overseeing the excavation.

When required or requested before sample collection, Pangea field staff screen soil with a portable photoionization detector (PID) to qualitatively assess the presence or absence of volatile contaminants. Excavated soil is typically segregated based on contaminant concentration and stockpiled on site on plastic sheeting. When field observations and/or PID measurements indicate that the contaminant-bearing soil has been satisfactorily removed, Pangea collects soil samples from excavation sidewalls and floor for confirmatory analysis at a State-certified analytic laboratory.

#### **Stockpile Soil Sampling**

To facilitate soil disposal at approved offsite facilities, Pangea typically collects one four-point composite soil samples for 200 cubic yards or less of stockpiled soil. If the soil stockpile volume is between 200 and 1,000 cubic yards, two four-point composite samples are typically collected. If soil is segregated based on field observations, at least one four-point composite soil sample is collected for each segregated stockpile. To generate a composite sample, Pangea collects four individual soil samples in steam-cleaned brass or steel tubes by hand, or from either a driven split-spoon type sampler or the bucket of a backhoe or excavator. The sample locations and depths are selected to obtain composite soil sample representative of the stockpile. The four individual soil tubes are composited by the state-certified laboratory. When hand sampling or backhoe/excavator is used, approximately three inches of soil are scraped from the surface and the tube is driven into the exposed soil. Additional stockpile sampling procedures may be required to facilitate reuse of soil onsite in accordance with regulatory oversight.

#### **Grab Ground Water Sampling**

If groundwater enters the excavation, grab ground water samples are typically collected from the open excavation. Grab groundwater sample can be collected from excavator equipment, disposable Tygon<sup>®</sup> tubing placed into the excavation, or other appropriate sampling equipment placed into the water. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory.

#### Sample Storage, Handling and Transport

Upon removal from the sampler or the backhoe, soil samples are trimmed flush, capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Groundwater samples in appropriate containers are labeled, placed in protective bags, and stored on crushed ice at or below 4°C. All samples are transported under chain-ofcustody to a State-certified analytic laboratory.

#### **Duplicates and Blanks**

Duplicate or blind duplicate samples can be collected, if requested. For water sampling, laboratorysupplied trip blanks can accompany samples to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

#### STANDARD FIELD PROCEDURES FOR SOIL BORINGS

This document describes Pangea Environmental Services' standard field methods for drilling and sampling soil borings. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

#### Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality, and to submit samples for chemical analysis.

#### Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist, scientist or engineer working under the supervision of a California Registered Engineer, California Registered Geologist (RG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e. sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or product saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e. cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

#### Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or hydraulic-push technologies. At least one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples are collected near the water table and at lithologic changes. With hollow-stem drilling, samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the borehole. With hydraulic-push drilling, samples are typically collected using acetate liners. The vertical location of each soil sample is determined by measuring the distance from the middle of the soil sample tube to the end of the drive rod used to advance the split barrel sampler or the acetate tube. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent crosscontamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPAapproved detergent.

#### Sample Storage, Handling and Transport

Sampling tubes or cut acetate liners chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

#### **Field Screening**

Soil samples collected during drilling will be analyzed in the field for ionizable organic compounds using a photoionization detector (PID) with a 10.2 eV lamp. The screening procedure will involve placing an undisturbed soil sample in a sealed container (either a zip-lock bag, glass jar, or a capped soil tube). The container will be set aside, preferably in the sun or warm location. After approximately fifteen minutes, the head space within the container will be tested for total organic vapor, measured in parts per million on a volume to volume basis (ppmv) by the PID. The PID instrument will be calibrated prior to boring using hexane or isobutylene. PID measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

#### Water Sampling

Water samples collected from borings are either collected from the open borehole, from within screened PVC inserted into the borehole, or from a driven Hydropunch-type sampler. Groundwater is typically extracted using a bailer, check valve and/or a peristaltic pump. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory.

Pangea often performs electrical conductivity (EC) logging and/or continuous coring to identify potential waterbearing zones. Hydropunch-type sampling is then performed to provide discrete-depth grab groundwater sampling within potential water-bearing zones for vertical contaminant delineation. Hydropunch-type sampling typically involves driving a cylindrical sheath of hardened steel with an expendable drive point to the desired depth within undisturbed soil. The sheath is retracted to expose a stainless steel or PVC screen that is sealed inside the sheath with Neoprene O-rings to prevent infiltration of formation fluids until the desired depth is attained. The groundwater is extracted using tubing inserted down the center of the rods into the screened sampler.

#### **Duplicates and Blanks**

Blind duplicate water samples are collected usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory QA/QC blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

#### Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

#### Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite on top of and covered by plastic sheeting. At least four individual soil samples are collected from the stockpiles for later compositing at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Ground water removed during sampling and/or rinsate generated during decontamination procedures are stored onsite in sealed 55 gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Disposal of the water is based on the analytic results for the well samples. The water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

### **APPENDIX E**

Laboratory Analytical Reports



McCampbell Analytical, Inc.

"When Quality Counts"

## **Analytical Report**

WorkOrder:	1511589
Report Created for:	Pangea Environmental Svcs., Inc.
	1710 Franklin Street, Ste. 200 Oakland, CA 94612
Project Contact:	Morgan Gillies
Project P.O.: Project Name:	1150.001; 1230 14th St.
Project Received:	11/12/2015

Analytical Report reviewed & approved for release on 11/13/2015 by:

Angela Rydelius, Laboratory Manager

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



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com

NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3



### **Glossary of Terms & Qualifier Definitions**

Client: Pangea Environmental Svcs., Inc.

**Project:** 1150.001; 1230 14th St.

**WorkOrder:** 1511589

#### **Glossary Abbreviation**

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

#### **Analytical Qualifiers**

d1	weakly modified or unmodified gasoline is significant
d7	strongly aged gasoline or diesel range compounds are significant in the $TPH(g)$ chromatogram
d9	no recognizable pattern



## **Analytical Report**

Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/12/15 18:47
Date Prepared:	11/12/15
Project:	1150.001; 1230 14th St.

WorkOrder:	1511589
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
14S-10	1511589-001A	Soil	11/12/2015 14:35 GC3	112861
Analytes	Result		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	46		1.0 1	11/13/2015 05:42
MTBE	ND		0.050 1	11/13/2015 05:42
Benzene	ND		0.0050 1	11/13/2015 05:42
Toluene	0.097		0.0050 1	11/13/2015 05:42
Ethylbenzene	0.17		0.0050 1	11/13/2015 05:42
Xylenes	0.48		0.0050 1	11/13/2015 05:42
Surrogates	<u>REC (%)</u>		<u>Limits</u>	
2-Fluorotoluene	83		70-130	11/13/2015 05:42
Analyst(s): IA			Analytical Comments: d7,d9	
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
14S-12	1511589-002A	Soil	11/12/2015 14:50 GC7	112861
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	180		33 33	11/13/2015 12:47
MTBE	ND		1.7 33	11/13/2015 12:47
Benzene	0.19		0.17 33	11/13/2015 12:47
Toluene	0.68		0.17 33	11/13/2015 12:47
Ethylbenzene	2.0		0.17 33	11/13/2015 12:47
Xylenes	5.6		0.17 33	11/13/2015 12:47
<u>Surrogates</u>	<u>REC (%)</u>		Limits	
2-Fluorotoluene	99		70-130	11/13/2015 12:47



## **Analytical Report**

Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/12/15 18:47
Date Prepared:	11/12/15
Project:	1150.001; 1230 14th St.

WorkOrder:	1511589
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

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

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
14S-15	1511589-003A	Soil	11/12/201	15 15:15 GC3	112861
Analytes	Result		<u>RL</u>	DF	Date Analyzed
TPH(g)	35		1.0	1	11/13/2015 06:42
MTBE	ND		0.050	1	11/13/2015 06:42
Benzene	0.021		0.0050	1	11/13/2015 06:42
Toluene	0.13		0.0050	1	11/13/2015 06:42
Ethylbenzene	0.23		0.0050	1	11/13/2015 06:42
Xylenes	0.61		0.0050	1	11/13/2015 06:42
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	82		70-130		11/13/2015 06:42
<u>Analyst(s):</u> IA			Analytical Comm	nents: d7,d9	

### McCampbell Analytical, Inc.

FAX: (510) 836-3709

WaterTrax

Email:

PO:

cc/3rd Party:

ProjectNo: 1150.001; 1230 14th St.



Report to:

Morgan Gillies

Oakland, CA 94612 (510) 836-3700

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

Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200

## **CHAIN-OF-CUSTODY RECORD**

		WorkOr	der: 1511589	Clie	ntCode: PEO		
writeOn	EDF	Excel	EQuIS	🖌 Email	HardCopy	ThirdParty	_J-flag
		Bill	to:		Requ	lested TAT:	1 day;
mgillies@pangeae	env.com	I	Bob Clark-Ridde	ell			
		I	Pangea Enviror	mental Svcs.	, Inc.	. D!	11/12/2015
			treet, Ste. 200	) Date	e Keceivea:	11/12/2015	
1150.001; 1230 14	4th St.	(	Oakland, CA 94	612	Date	e Printed:	11/12/2015

				[				Re	quested	Tests (	See leg	end bel	ow)			
Lab ID	Client ID	Matrix	<b>Collection Date</b>	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1511589-001	14S-10	Soil	11/12/2015 14:35		А											
1511589-002	14S-12	Soil	11/12/2015 14:50		А											
1511589-003	14S-15	Soil	11/12/2015 15:15		А											

#### Test Legend:

1	G-MBTEX_S
5	
9	

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**Prepared by: Agustina Venegas** 

#### **Comments:**

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

#### Page 1 of 1

	M	CCampbell A	<u>nalytical</u> ty Counts''	<u>, Inc.</u>		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														
				WORI	K ORDER S	UMMARY														
Client Name Project: Comments:	: PANGEA E 1150.001; 1	ENVIRONMENTAL S 230 14th St.	VCS., INC.	C Co	QC Level: Li Client Contact: M ntact's Email: m	EVEL 2 forgan Gillies gillies@pangeaenv.com	m		Worl Date R	k Order: eceived:	1511589 11/12/2015									
Lab ID	Client ID	Matrix	Test Name	EDF	Containers /Composites	Bottle & Preservative	e De- chlorinated	Collection Date & Time	TAT	Sediment Content	t Hold SubOut									
1511589-001A	14S-10	Soil	SW8021B/801	5Bm (G/MBTEX)	1	Stainless Steel tube 2"x6	"	11/12/2015 14:35	1 day											
1511589-002A	14S-12	Soil	SW8021B/801	5Bm (G/MBTEX)	1	Stainless Steel tube 2"x6	"	11/12/2015 14:50	1 day											

1

Stainless Steel tube 2"x6"

 $\square$ 

11/12/2015 15:15

1 day

1511589-003A 14S-15

Soil

SW8021B/8015Bm (G/MBTEX)

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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N	<b>IcCAMP</b>	BELL	ANA	LYI	<b>FIC</b> A	AL.	, IN	C.			REA	a state						С	H	AII	NO	<b>)</b> F	CI	JST	<b>O</b> J	DY	R	EC	OF	RD	
		1534 V	Villow Pass	Road										τι	JR	NA	RC	DUI	ND	TI	ME		Ę		X	1	] [				· 🖵 –
Website: www.mccampbell.com Email: main@mccampbell.com												RUSH 24 HR 48 HR 72 HR											5 DAY								
Telephone: (925) 252-9262 Fax: (925) 252-9269										1	EDF Required? Coelt (Normal) No Write On (DW) No																				
Report To: Morgan Gillies Bill To: Pangea																	A	naly	sis l	Requ	iest						0	ther	Comments		
Company: Pange	a Environme	ntal Ser	vices, Inc	•						_																					Filter
1710 Franklin Str	eet, Suite 200	), Oakla	nd, CA 9	4612	1									BE													1		-		Samples
	<u>.</u>		E	Mail	: mgil	lies(	@pa1	igea	env	.con	n		4	LW/																	for Metals
Tele: (510) 836-3'	702		F	'ax: (	510) 8	836-	3709		-	-			-	8015																	analysis:
Project #: 1150.00	1220 1 4th C4	Ochle	P	rojec	t Nan	ie:	1230	14 <sup>u</sup>	St	_			-	+ 0																	Yes / No
Project Location:	1230 14 St.	., Oaklar	10										-	2/802																	
Sampler Signatur	e:	100	~~		T					М	FTI	IOD	-	3 (60)	(0)																
		SAMI	PLING	2		1	MAT	RIJ	K	PR	ESEI	RVEI	2	s Gas	(826																
SAMPLE ID	LOCATION			ine	s									PHa	ites																
	(Field Point Name)	Date	Time	nta	aine	L			2 1					& T	gens																2
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## Sample Receipt Checklist

Client Name:	Pangea Environmental Svcs., Inc.			Date and T	ime Received:	11/12/2015 6:47:40 PM	
Project Name:	1150.001; 1230 14th St.			LogIn Revi	ewed by:	Agustina Venegas	
WorkOrder №:	1511589	Matrix: <u>Soil</u>			Carrier:	Client Drop-In	
		Chain of C	ustody	/ (COC) Ir	nformation		
Chain of custody	present?		Yes	✓	No 🗌		
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No 🗌		
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌		
Sample IDs noted	d by Client on COC?		Yes	✓	No 🗌		
Date and Time of	collection noted by C	lient on COC?	Yes	✓	No 🗌		
Sampler's name	noted on COC?		Yes	✓	No 🗌		
		Sample	e Rece	eipt Inforr	<u>nation</u>		
Custody seals int	act on shipping contai	iner/cooler?	Yes		No 🗌		NA 🗹
Shipping containe	er/cooler in good cond	ition?	Yes	✓	No 🗌		
Samples in proper containers/bottles?		Yes	✓	No 🗌			
Sample containers intact?		Yes	✓	No 🗌			
Sufficient sample volume for indicated test?		Yes	✓	No 🗌			
		Sample Preservatio	on and	Hold Tim	<u>ne (HT) Info</u>	rmation	
All samples recei	ved within holding time	e?	Yes	✓	No		
Sample/Temp Bla	ank temperature			Temp:	6.5°C		
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes		No 🗌		NA 🗹
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No 🗌		
pH acceptable up	oon receipt (Metal: <2;	522: <4; 218.7: >8)?	Yes		No 🗌		NA 🗹
Samples Receive	ed on Ice?		Yes	✓	No 🗌		
		(Ісе Туре	e: WE	TICE )			
UCMR3 Samples Total Chlorine t	:: ested and acceptable	upon receipt for EPA 522?	Yes		No 🗌		NA 🗹
Free Chlorine to 300.1, 537, 539	ested and acceptable )?	upon receipt for EPA 218.7,	Yes		No 🗌		NA 🔽

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

Comments:



McCampbell Analytical, Inc.

"When Quality Counts"

# **Analytical Report**

**WorkOrder:** 1511514

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200 Oakland, CA 94612

Project Contact:	Morgan Gillies
------------------	----------------

Project P.O.:

**Project Name:** 1150.001; 1230 14th St

**Project Received:** 11/11/2015

Analytical Report reviewed & approved for release on 11/12/2015 by:

Angela Rydelius, Laboratory Manager

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



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3



# **Glossary of Terms & Qualifier Definitions**

Client: Pangea Environmental Svcs., Inc.

**Project:** 1150.001; 1230 14th St

**WorkOrder:** 1511514

### **Glossary Abbreviation**

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

### **Analytical Qualifiers**

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another $peak(s)$ / cluttered chromatogram.
d2	heavier gasoline range compounds are significant (aged gasoline?)
d9	no recognizable pattern



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/11/15 15:24
Date Prepared:	11/11/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511514
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
F-10	1511514-001A	Soil	11/11/2015 10:40 GC7	112759
Analytes	Result		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	64		10 10	11/12/2015 12:23
MTBE	ND		0.50 10	11/12/2015 12:23
Benzene	0.093		0.050 10	11/12/2015 12:23
Toluene	0.17		0.050 10	11/12/2015 12:23
Ethylbenzene	0.49		0.050 10	11/12/2015 12:23
Xylenes	1.9		0.050 10	11/12/2015 12:23
<u>Surrogates</u>	<u>REC (%)</u>		Limits	
2-Fluorotoluene	89		70-130	11/12/2015 12:23
Analyst(s): IA			Analytical Comments: d2,d9	
Client ID	Lah ID	Matrix	Date Collected Instrument	Datah ID
Cheffit ID	Lab ID	Matin	Date Concettu Instrument	Datch ID
F-E-9.5	1511514-002A	Soil	11/11/2015 11:30 GC7	112759
F-E-9.5 Analytes	1511514-002A <u>Result</u>	Soil	Date concettu Instrument           11/11/2015 11:30 GC7           RL         DF	112759 Date Analyzed
F-E-9.5 Analytes TPH(g)	Lab ID           1511514-002A           Result           2700	Soil	Date Concerct Instrument           11/11/2015 11:30         GC7           RL         DF           500         500	Date Analyzed           11/12/2015 00:22
F-E-9.5 Analytes TPH(g) MTBE	Lab ID           1511514-002A           Result           2700           ND	Soil	Bate Confected Instrument           11/11/2015 11:30         GC7           RL         DF           500         500           25         500	Date Analyzed           11/12/2015 00:22           11/12/2015 00:22
F-E-9.5       Analytes       TPH(g)       MTBE       Benzene	Lab ID           1511514-002A           Result           2700           ND           ND	Soil	Bate Contected Instrument           11/11/2015 11:30         GC7           RL         DE           500         500           25         500           2.5         500	Date Analyzed           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22
F-E-9.5       Analytes       TPH(g)       MTBE       Benzene       Toluene	Lab ID           1511514-002A           Result           2700           ND           ND           6.7	Soil	Bate Contected Instrument           11/11/2015 11:30         GC7           RL         DF           500         500           25         500           2.5         500           2.5         500           2.5         500	Date Analyzed           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22
F-E-9.5 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene	Lab ID           1511514-002A           Result           2700           ND           ND           6.7           9.7	Soil	Bate Contected Instrument           11/11/2015 11:30         GC7           RL         DF           500         500           25         500           2.5         500           2.5         500           2.5         500           2.5         500	Date Analyzed           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22
F-E-9.5  Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes	Lab ID           1511514-002A           Result           2700           ND           0.7           9.7           45	Soil	Bate Contected Instrument           11/11/2015 11:30         GC7           RL         DE           500         500           25         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500	Date Analyzed           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22
F-E-9.5 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates	Lab ID           1511514-002A           Result           2700           ND           6.7           9.7           45           REC (%)	Soil	Bate Contected Instrument           11/11/2015 11:30         GC7           RL         DE           500         500           25         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500	Date Analyzed           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22
F-E-9.5  Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates 2-Fluorotoluene	Lab ID           1511514-002A           Result           2700           ND           0.7           9.7           45           REC (%)           112	Soil	Bate Contected Instrument           11/11/2015 11:30         GC7           RL         DE           500         500           25         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500           2.5         500	Date Analyzed           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22           11/12/2015 00:22



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/11/15 15:24
Date Prepared:	11/11/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511514
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date	Collected Instrument	Batch ID
S-9.5	1511514-0034	A Soil	11/11/2	2015 13:35 GC7	112759
<u>Analytes</u>	Result		<u>RL</u>	DF	Date Analyzed
TPH(g)	7800		500	500	11/12/2015 02:20
MTBE	ND		25	500	11/12/2015 02:20
Benzene	13		2.5	500	11/12/2015 02:20
Toluene	96		2.5	500	11/12/2015 02:20
Ethylbenzene	96		2.5	500	11/12/2015 02:20
Xylenes	610		2.5	500	11/12/2015 02:20
Surrogates	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
2-Fluorotoluene	417	S	70-130	1	11/12/2015 02:20
<u>Analyst(s):</u> IA			Analytical Co	mments: d2,d9,c4	

Client:	Pangea Environmental Svcs., Inc.	WorkOrder:	1511514
Date Prepared:	11/10/15	BatchID:	112759
Date Analyzed:	11/12/15	<b>Extraction Method:</b>	SW5030B
Instrument:	GC19	Analytical Method:	SW8021B/8015Bm
Matrix:	Soil	Unit:	mg/Kg
Project:	1150.001; 1230 14th St	Sample ID:	MB/LCS-112759

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.678	0.40	0.60	-	113	70-130
MTBE	ND	0.0854	0.050	0.10	-	85	70-130
Benzene	ND	0.0996	0.0050	0.10	-	100	70-130
Toluene	ND	0.102	0.0050	0.10	-	102	70-130
Ethylbenzene	ND	0.106	0.0050	0.10	-	106	70-130
Xylenes	ND	0.343	0.0050	0.30	-	114	70-130
Surrogate Recovery							
2-Fluorotoluene	0.124	0.119		0.10	124	119	70-130

QA/QC Officer

## McCampbell Analytical, Inc.

FAX: (510) 836-3709



Report to:

Morgan Gillies

Oakland, CA 94612 (510) 836-3700 F

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

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200

# **CHAIN-OF-CUSTODY RECORD**

			WorkOrde	er: 1511514	Client	Code: PEO		
WaterTrax	WriteOn	✓ EDF	Excel	EQuIS	Email	HardCopy	ThirdParty	_J-flag
Email: m	gillies@pangeae	nv.com	Bill to Bo	o: ob Clark-Ridde	 mantal Sugar In	Req	uested TATs:	1 day; 5 days;
PO:			Pa 17	10 Franklin St	reet, Ste. 200	Dat	e Received:	11/11/2015
ProjectNo: 11	50.001; 1230 14	th St	Oa	akland, CA 946	612	Dat	e Printed:	11/12/2015

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date	lold	1	2	3	4	5	6	7	8	9	10	11	12
1511514-001	F-10	Soil	11/11/2015 10:40		А	А										
1511514-002	F-E-9.5	Soil	11/11/2015 11:30		А											
1511514-003	S-9.5	Soil	11/11/2015 13:35		А											

#### Test Legend:

1	G-MBTEX_S
5	
9	

2	PREDF REPORT
6	
10	

3	
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4	
8	
12	

Prepared by: Briana Cutino

#### **Comments:**

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



## WORK ORDER SUMMARY

Client Name Project:	: PANGEA E 1150.001; 1	ENVIRONMENTAL S 230 14th St	SVCS., INC.	C	QC Level: 1 Slient Contact: M	LEVEL 2 Morgan Gillies				Wor Date R	k Order: Received:	1511514 11/11/2015
Comments:				Со	ntact's Email: r	ngillies@pangeae	env.com					
		WaterTrax	WriteOn	EDF	Excel	Fax 🗸	Email	HardCo	pyThirdPart	у 🗌	l-flag	
Lab ID	Client ID	Matrix	Test Name		Containers /Composite	s Bottle & Prese es	ervative	De- chlorinated	Collection Date & Time	ТАТ	Sediment Content	Hold SubOut
1511514-001A	F-10	Soil	SW8021B/802	15Bm (G/MBTEX)	1	Stainless Steel tu	ube 2"x6"		11/11/2015 10:40	1 day		
1511514-002A	F-E-9.5	Soil	SW8021B/802	15Bm (G/MBTEX)	1	Stainless Steel tu	ube 2"x6"		11/11/2015 11:30	1 day		
1511514-003A	S-9.5	Soil	SW8021B/802	15Bm (G/MBTEX)	1	Stainless Steel tu	ube 2"x6"		11/11/2015 13:35	1 day		
1511514-004A	S-3	Soil			1	Stainless Steel tu	ube 2"x6"		11/11/2015 13:40			✓
1511514-005A	N-5	Soil			1	Stainless Steel tu	ube 2"x6"		11/11/2015 13:45			✓
1511514-006A	N-10	Soil			1	Stainless Steel tu	ıbe 2"x6"		11/11/2015 14:00			✓

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

																5	11	5	14	-	10	5							- 14 25		e.
McCAMPBELL ANALYTICAL, INC. 1534 Willow Pass Road Pittsburg, CA 94565 Website: www.mccampbell.com Email: main@mccampbell.com										TU	JRI	NA	RO	CI	HA D T	IN IM	O] E	F C			)D 4 HR	YR	EC	COI R	RD	R	D 5 DAY				
Teleph	one: (925) 252	2-9262			F	ax: (	925)	252-	-926	9			E	5DI	R	equi	red	Co	elt (	Nori	nal)	٦	10	Wr	ite O	n (D	w)	NO		_	
Report To: Mor	gan Gillies	. 10	E	ill To	: Pai	ngea		í.,			-		1		-		-		Ana	lysi	Re	ques	st				-	0	ther	- (	Comment
Company: Pang	ea Environme	ental Ser	vices, Inc			1.00			-				┨.																- 1	F	Filter
1/10 Franklin St	reet, Suite 20	J, Oakia	nd, CA 9	4612			-		1					TBE																S	Samples
Tala: (510) 92( 1	703		E-	wiaii	: mgi	lies(a	pan	igea	env.	com				2)/W					1			2								f	or Metals
Tele: (510) 836-3	0/02		F	ax: (	510) a	\$36-3	220	1 4th	<u></u>				- 100	801																a	inalysis:
Project #: 1150.0	101 1220 1 4th G4	0.11	P	rojec	t Nan	ne: 1	230	14"	St					+					-		1.00		-							P	es / No
Project Location	: 1230 14 <sup></sup> St	., Oakiai	10			-	-							5/803																	
Sampler Signatu	re:	SAM	PLING			N	<b>1</b> AT	RIX	_	ME	ETH	OD		Gas (60)	8260)																
SAMPLE ID	LOCATION (Field Point Name)	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	ICE	HCL	HNO3	DULIET P	BTEX & TPH as	5 Oxygenates (													-			
F-10	1	11/11	1040	T	5		X			X	+	-	1	1	-		-	-		-						-	+			1	
F=E-9.5		,	1130	T	11		×			X			Ń	Ż																	
5-95			1335	1	11	2	<			×			×	<															- 19	1	
5-3			1340	1	11	>	<			X			7									A								H	OLP
N-5			13:45	1	11	1	K			X			ĕ		1	_				-										H	OLP
N-10		V	1400	1	11		×			×			7	2	_		_	_		-										H	640
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Relinquished By:	to	Date:	Time	Rece	ived B	Z	E		X	6	-	+	I G	CE/	t°	OND	ITIO	N		2						CON	1MEN	TS:	2	N. T	
Relinquished By:	-12/	Date:	Time:	Rece	ived B	12	N	A	X	Z	×	K	HDA	IEA DEC	D SI HLC	PACE	ABS ATE	SENT D IN	LAB_	R8											
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		,		-30			/						Р	RE	SER	VAT	ION	OAS	5 0	&G	ME pH<	TAL	s c	THE	R						



## Sample Receipt Checklist

Client Name:	Pangea Environmer	tal Svcs., Inc.			Date and T	ime Received:	11/11/2015 3:24:49 PM
Project Name:	1150.001; 1230 14th	n St			LogIn Revi	ewed by:	Briana Cutino
WorkOrder №:	1511514	Matrix: Soil			Carrier:	Bernie Cummir	ns (MAI Courier)
		Chain of C	ustody	/ (COC) li	nformation		
Chain of custody	present?		Yes	✓	No 🗌		
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No 🗌		
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌		
Sample IDs noted	d by Client on COC?		Yes	✓	No 🗌		
Date and Time of	collection noted by C	lient on COC?	Yes	✓	No 🗌		
Sampler's name	noted on COC?		Yes	✓	No 🗌		
		Sample	e Rece	eipt Infori	mation		
Custody seals int	act on shipping conta	iner/cooler?	Yes		No 🗌		NA 🗹
Shipping containe	er/cooler in good cond	lition?	Yes	✓	No 🗌		
Samples in prope	er containers/bottles?		Yes	✓	No 🗌		
Sample container	rs intact?		Yes	✓	No 🗌		
Sufficient sample	volume for indicated	test?	Yes	✓	No 🗌		
		Sample Preservatio	on and	Hold Tin	<u>ne (HT) Info</u>	rmation	
All samples recei	ved within holding tim	e?	Yes	✓	No 🗌		
Sample/Temp Bla	ank temperature			Temp:	2.2°C		
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes		No 🗌		NA 🗹
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No 🗌		
pH acceptable up	oon receipt (Metal: <2;	522: <4; 218.7: >8)?	Yes		No 🗌		NA 🗹
Samples Receive	ed on Ice?		Yes	✓	No 🗌		
		(Ісе Туре	: WE	TICE )	)		
UCMR3 Samples	:: rested and acceptable	upon receipt for FPA 5222	Yes		No		
Free Chlorine to	ested and acceptable	upon receipt for EPA 218.7.	Yes				
300.1, 537, 539	)?	· · · · · · · · · · · · · · · · · · ·					_

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

Comments:



McCampbell Analytical, Inc.

"When Quality Counts"

# **Analytical Report**

WorkOrder:	1511568
Report Created for:	Pangea Environmental Svcs., Inc.
	1710 Franklin Street, Ste. 200 Oakland, CA 94612
Project Contact:	Morgan Gillies
Project P.O.: Project Name:	1150.001; 1230 14th St
Project Received:	11/12/2015

Analytical Report reviewed & approved for release on 11/17/2015 by:

Angela Rydelius, Laboratory Manager

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



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3



## **Glossary of Terms & Qualifier Definitions**

**Client:** Pangea Environmental Svcs., Inc.

**Project:** 1150.001; 1230 14th St

**WorkOrder:** 1511568

### **Glossary Abbreviation**

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

### Analytical Qualifiers

d2	heavier gasoline range compounds are significant (aged gasoline?)
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/12/15 15:50
Date Prepared:	11/12/15-11/17/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511568
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
E-2	1511568-001A	Soil	11/11/201	5 14:30 GC19	112834
Analytes	Result		<u>RL</u>	DF	Date Analyzed
TPH(g)	ND		1.0	1	11/13/2015 14:55
MTBE	ND		0.050	1	11/13/2015 14:55
Benzene	ND		0.0050	1	11/13/2015 14:55
Toluene	ND		0.0050	1	11/13/2015 14:55
Ethylbenzene	ND		0.0050	1	11/13/2015 14:55
Xylenes	ND		0.0050	1	11/13/2015 14:55
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	120		70-130		11/13/2015 14:55
<u>Analyst(s):</u> IA					
Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
Client ID W-4	Lab ID 1511568-002A	Matrix Soil	Date Co 11/11/201	IlectedInstrument5 14:35GC19	Batch ID 113013
Client ID W-4 Analytes	Lab ID 1511568-002A <u>Result</u>	Matrix Soil	Date Co 11/11/201 <u>RL</u>	Ilected     Instrument       5 14:35     GC19       DF	Batch ID 113013 Date Analyzed
Client ID W-4 Analytes TPH(g)	Lab ID 1511568-002A <u>Result</u> ND	Matrix Soil	Date Co 11/11/201 <u>RL</u> 1.0	Ilected     Instrument       5 14:35     GC19       DE 1     1	Batch ID           113013           Date Analyzed           11/17/2015 14:48
Client ID w-4 Analytes TPH(g) MTBE	Lab ID 1511568-002A <u>Result</u> ND ND	Matrix Soil	Date Co 11/11/201 <u>RL</u> 1.0 0.050	Ilected     Instrument       5 14:35     GC19       DE     1       1     1	Batch ID           113013           Date Analyzed           11/17/2015 14:48           11/17/2015 14:48
Client ID w-4 Analytes TPH(g) MTBE Benzene	Lab ID           1511568-002A           Result           ND           ND           ND           ND           ND           ND	Matrix Soil	Date Co 11/11/201 RL 1.0 0.050 0.0050	IlectedInstrument5 14:35GC19DF11111	Batch ID           113013           Date Analyzed           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48
Client ID W-4 Analytes TPH(g) MTBE Benzene Toluene	Lab ID           1511568-002A           Result           ND	Matrix Soil	Date Co           11/11/201           RL           1.0           0.050           0.0050           0.0050	Ilected         Instrument           5 14:35         GC19           DE         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	Batch ID           113013           Date Analyzed           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48
Client ID w-4 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene	Lab ID           1511568-002A           Result           ND           ND	Matrix Soil	Date Co           11/11/201           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050	Ilected         Instrument           5 14:35         GC19           DE         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	Datch ID           113013           Date Analyzed           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48
Client ID W-4 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes	Lab ID 1511568-002A Result ND ND ND ND ND ND ND ND 0.021	Matrix Soil	Date Co           11/11/201           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050	Ilected         Instrument           5 14:35         GC19           DF         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	Batch ID           113013           Date Analyzed           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48
Client ID w-4 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates	Lab ID 1511568-002A Result ND ND ND ND ND ND 0.021 REC (%)	Matrix Soil	Date Co           11/11/201           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050	Ilected         Instrument           5 14:35         GC19           DE         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	Date Analyzed           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48
Client ID W-4 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates 2-Fluorotoluene	Lab ID 1511568-002A Result ND ND ND ND ND 0.021 REC (%) 121	Matrix Soil	RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050	Ilected         Instrument           5 14:35         GC19           DE         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	Batch ID           113013           Date Analyzed           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48           11/17/2015 14:48





Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/12/15 15:50
Date Prepared:	11/12/15-11/17/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511568
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
12N-10	1511568-003A	Soil	11/11/2015 15:05 GC7	112834
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	430		33 33	11/13/2015 15:26
MTBE	ND		1.7 33	11/13/2015 15:26
Benzene	ND		0.17 33	11/13/2015 15:26
Toluene	0.78		0.17 33	11/13/2015 15:26
Ethylbenzene	1.9		0.17 33	11/13/2015 15:26
Xylenes	17		0.17 33	11/13/2015 15:26
<u>Surrogates</u>	<u>REC (%)</u>		Limits	
2-Fluorotoluene	108		70-130	11/13/2015 15:26
<u>Analyst(s):</u> IA			Analytical Comments: d2,d9	
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
12N-13	1511568-004A	Soil	11/12/2015 11:25 GC7	112834
Analytes	Result		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	1400		50 50	11/13/2015 05:15
MTBE	ND		2.5 50	11/13/2015 05:15
Benzene	2.1		0.25 50	11/13/2015 05:15
Toluene			0.25 50	11/12/2015 05:15
	8.3		0.25 50	11/13/2015 05:15
Ethylbenzene	<u>8.3</u> 24		0.25 50	11/13/2015 05:15
Ethylbenzene Xylenes	8.3 24 110		0.25         50           0.25         50           0.25         50	11/13/2015 05:15 11/13/2015 05:15 11/13/2015 05:15
Ethylbenzene Xylenes Surrogates	8.3 24 110 <u>REC (%)</u>		0.25 50 0.25 50 0.25 50 Limits	11/13/2015 05:15 11/13/2015 05:15 11/13/2015 05:15
Ethylbenzene Xylenes Surrogates 2-Fluorotoluene	8.3 24 110 <u>REC (%)</u> 117		0.25         50           0.25         50           0.25         50           Limits         70-130	11/13/2015 05:15 11/13/2015 05:15 11/13/2015 05:15 11/13/2015 05:15



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/12/15 15:50
Date Prepared:	11/12/15-11/17/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511568
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
12N-15	1511568-005A	Soil	11/12/2015 11:40 GC7	112834
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	110		20 20	11/13/2015 15:56
MTBE	ND		1.0 20	11/13/2015 15:56
Benzene	0.36		0.10 20	11/13/2015 15:56
Toluene	0.43		0.10 20	11/13/2015 15:56
Ethylbenzene	1.5		0.10 20	11/13/2015 15:56
Xylenes	7.4		0.10 20	11/13/2015 15:56
Surrogates	<u>REC (%)</u>		Limits	
2-Fluorotoluene	109		70-130	11/13/2015 15:56
Analyst(s): IA			Analytical Comments: d2,d9	
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
12W-10	1511568-006A	Soil	11/12/2015 12:50 GC7	112870
Analytes	Result		<u>RL</u> DF	Date Analyzed
TPH(g)	ND		1.0 1	11/13/2015 13:18
MTBE	ND		0.050 1	11/13/2015 13:18
Benzene	ND		0.0050 1	11/13/2015 13:18
Toluene	ND		0.0050 1	11/13/2015 13:18
Ethylbenzene	ND		0.0050 1	11/13/2015 13:18
Xylenes	ND		0.0050 1	11/13/2015 13:18
Surrogates	<u>REC (%)</u>		<u>Limits</u>	
2-Fluorotoluene	102		70-130	11/13/2015 13:18
• • • • • •				



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/12/15 15:50
Date Prepared:	11/12/15-11/17/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511568
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
12N-17	1511568-007A	Soil	11/12/2015 13:20 GC3	112834
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	11		1.0 1	11/13/2015 07:41
МТВЕ	ND		0.050 1	11/13/2015 07:41
Benzene	0.043		0.0050 1	11/13/2015 07:41
Toluene	0.077		0.0050 1	11/13/2015 07:41
Ethylbenzene	0.14		0.0050 1	11/13/2015 07:41
Xylenes	0.69		0.0050 1	11/13/2015 07:41
Surrogates	<u>REC (%)</u>		Limits	
2-Fluorotoluene	88		70-130	11/13/2015 07:41
<u>Analyst(s):</u> IA			Analytical Comments: d2,d9	
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
Client ID 12W-13	Lab ID 1511568-008A	Matrix Soil	Date Collected Instrument	Batch ID 112834
Client ID 12W-13 Analytes	Lab ID 1511568-008A <u>Result</u>	Matrix Soil	Date Collected         Instrument           11/12/2015         13:50         GC7           RL         DF	Batch ID 112834 Date Analyzed
Client ID 12W-13 Analytes TPH(g)	Lab ID 1511568-008A <u>Result</u> 3.4	Matrix Soil	Date Collected         Instrument           11/12/2015         13:50         GC7           RL         DE         1.0         1	Batch ID 112834 Date Analyzed 11/13/2015 14:56
Client ID 12W-13 Analytes TPH(g) MTBE	Lab ID 1511568-008A Result 3.4 ND	Matrix Soil	Date Collected         Instrument           11/12/2015         13:50         GC7           RL         DF         1.0         1           0.050         1         1         1	Batch ID 112834 Date Analyzed 11/13/2015 14:56 11/13/2015 14:56
Client ID 12W-13 Analytes TPH(g) MTBE Benzene	Lab ID 1511568-008A Result 3.4 ND ND	Matrix Soil	Date Collected         Instrument           11/12/2015         13:50         GC7           RL         DF         1           1.0         1         1           0.050         1         1           0.0050         1         1	Batch ID 112834 Date Analyzed 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56
Client ID 12W-13 Analytes TPH(g) MTBE Benzene Toluene	Lab ID 1511568-008A Result 3.4 ND ND 0.0080	Matrix Soil	Date Collected         Instrument           11/12/2015         3:50         GC7           RL         DE         1           1.0         1         1           0.050         1         1           0.0050         1         1           0.0050         1         1	Batch ID           112834           Date Analyzed           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56
Client ID 12W-13 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene	Lab ID 1511568-008A Result 3.4 ND ND 0.0080 ND	Matrix Soil	Date Collected         Instrument           11/12/2015         13:50         GC7           RL         DF         1           1.0         1         1           0.050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1	Batch ID 112834 Date Analyzed 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56
Client ID 12W-13 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes	Lab ID 1511568-008A Result 3.4 ND ND 0.0080 ND ND ND	Matrix Soil	Date Collected         Instrument           11/12/2015         3:50         GC7           RL         DF         1           1.0         1         1           0.050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1	Batch ID 112834 Date Analyzed 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56
Client ID 12W-13 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates	Lab ID 1511568-008A Result 3.4 ND ND 0.0080 ND ND ND ND REC (%)	Matrix Soil	Date Collected         Instrument           11/12/2015         13:50         GC7           RL         DF         1           1.0         1         1           0.050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1	Batch ID 112834 Date Analyzed 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56 11/13/2015 14:56
Client ID 12W-13 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates 2-Fluorotoluene	Lab ID 1511568-008A Result 3.4 ND ND 0.0080 ND ND ND REC (%) 96	Matrix Soil	Date Collected         Instrument           11/12/2015         3:50         GC7           RL         DE         1           1.0         1         1           0.050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           1.0050         1         1           1.0050         1         1           1.0050         1         1           1.0050         1         1           1.0050         1         1           1.0050         1         1           1.0050         1         1           1.0050         1         1           1.0050         1         1           1.0050         1         1 <t< td=""><td>Batch ID           112834           Date Analyzed           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56</td></t<>	Batch ID           112834           Date Analyzed           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56           11/13/2015 14:56



Client:	Pangea Environmental Svcs., Inc.	WorkOrder:
Date Prepared:	: 11/12/15	BatchID:
Date Analyzed:	: 11/12/15	Extraction M
Instrument:	GC7	Analytical M
Matrix:	Soil	Unit:
Project:	1150.001; 1230 14th St	Sample ID:

WorkOrder:	1511568
BatchID:	112834
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg
Sample ID:	MB/LCS-112834
	1511568-004AMS/MSD

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits	
TPH(btex)	ND	0.501	0.40	0.60	-	84	70-130	
МТВЕ	ND	0.0907	0.050	0.10	-	91	70-130	
Benzene	ND	0.0926	0.0050	0.10	-	93	70-130	
Toluene	ND	0.0876	0.0050	0.10	-	88	70-130	
Ethylbenzene	ND	0.0944	0.0050	0.10	-	94	70-130	
Xylenes	ND	0.296	0.0050	0.30	-	99	70-130	
Surrogate Recovery								
2-Fluorotoluene	0.111	0.111		0.10	111	111	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		160	NR	NR	-	NR	
МТВЕ	NR	NR		ND<2.5	NR	NR	-	NR	
Benzene	NR	NR		2.1	NR	NR	-	NR	
Toluene	NR	NR		8.3	NR	NR	-	NR	
Ethylbenzene	NR	NR		24	NR	NR	-	NR	
Xylenes	NR	NR		110	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

QA/QC Officer



Client:	Pangea Environmental Svcs., Inc.	WorkOrder:	1511568
Date Prepared:	11/12/15	BatchID:	112870
Date Analyzed:	11/13/15	<b>Extraction Method:</b>	SW5030B
Instrument:	GC19	Analytical Method:	SW8021B/8015Bm
Matrix:	Soil	Unit:	mg/Kg
Project:	1150.001; 1230 14th St	Sample ID:	MB/LCS-112870

Analyte	MB Result	LCS Result	RL		MB SS %REC	LCS %REC	LCS Limits	
TPH(btex)	ND	0.602	0.40	0.60	-	100	70-130	
MTBE	ND	0.0849	0.050	0.10	-	85	70-130	
Benzene	ND	0.101	0.0050	0.10	-	101	70-130	
Toluene	ND	0.102	0.0050	0.10	-	102	70-130	
Ethylbenzene	ND	0.105	0.0050	0.10	-	105	70-130	
Xylenes	ND	0.336	0.0050	0.30	-	112	70-130	
Surrogate Recovery								
2-Fluorotoluene	0.119	0.120		0.10	119	120	70-130	

QA/QC Officer



Client:	Pangea Environmental Svcs., Inc.	WorkO
Date Prepared:	11/16/15	BatchIE
Date Analyzed:	11/17/15	Extracti
Instrument:	GC19	Analytic
Matrix:	Soil	Unit:
Project:	1150.001; 1230 14th St	Sample

WorkOrder:	1511568
BatchID:	113013
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg
Sample ID:	MB/LCS-113013
	1511688-013AMS/MSD

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	70-130
МТВЕ	ND	0.0874	0.050	0.10	-	87	70-130
Benzene	ND	0.104	0.0050	0.10	-	104	70-130
Toluene	ND	0.105	0.0050	0.10	-	105	70-130
Ethylbenzene	ND	0.107	0.0050	0.10	-	107	70-130
Xylenes	ND	0.341	0.0050	0.30	-	114	70-130
Surrogate Recovery							
2-Fluorotoluene	0.124	0.122		0.10	124	122	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		ND<8	NR	NR	-	NR	
МТВЕ	NR	NR		ND<1	NR	NR	-	NR	
Benzene	NR	NR		ND<0.1	NR	NR	-	NR	
Toluene	NR	NR		ND<0.1	NR	NR	-	NR	
Ethylbenzene	NR	NR		ND<0.1	NR	NR	-	NR	
Xylenes	NR	NR		ND<0.1	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

QA/QC Officer

## McCampbell Analytical, Inc.



Report to:

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

# **CHAIN-OF-CUSTODY RECORD**

ab ID	Client ID		Matrix	Collection Date	Hold 1	2	3	Requested	Tests (So	ee legend l 7 8	pelow) 9 10	0 11	1
(510) 836-3700	FAX: (510) 836-3709					2 01101	,			Dun		11/1 <i>4</i> /4	
Oakland, CA 946	12	ProjectNo: 1	150.001: 1230	14th St		Oaklar	nd. CA 94	612		Date	e Printed:	11/12/2	015
1710 Franklin Stre	eet, Ste. 200	PO:	1710 Franklin Street, Ste. 200						00	Date	11/12/2	015	
Pangea Environm	cc/3rd Party:				Pange	a Enviror	mental Svcs	s., Inc.			5 days;		
Morgan Gillies		Email: m	ngillies@pange	eaenv.com		Bob Cl	ark-Ridd	ell				3 days;	
eport to:						Bill to:				Requ	uested TATs:	1 day;	
			VinteOn							пагисору			y
		□ W/atorTray					EOUIS	- Empil		JardConv			~
(925) 252-920	52				Work	Order: 1	1511568	Ch	entCode	: PEO			
Fittsburg, CA	94505-1701				**/ 1	0 1 1	E11ECO		10 1	DEO			

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1511568-001	E-2	Soil	11/11/2015 14:30		А	Α										
1511568-002	W-4	Soil	11/11/2015 14:35		А											
1511568-003	12N-10	Soil	11/11/2015 15:05		А											
1511568-004	12N-13	Soil	11/12/2015 11:25		А											
1511568-005	12N-15	Soil	11/12/2015 11:40		А											
1511568-006	12W-10	Soil	11/12/2015 12:50		А											
1511568-007	12N-17	Soil	11/12/2015 13:20		А											
1511568-008	12W-13	Soil	11/12/2015 13:50		A											

#### Test Legend:

1	G-MBTEX_S
5	
9	

2	PREDF REPORT
6	
10	

3	
7	
11	

4	
8	
12	

Page 1 of 1

Prepared by: Maria Venegas

#### samples 001 & 002 on a 3day all others on 1day TAT. **Comments:**

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



## WORK ORDER SUMMARY

**QC Level:** LEVEL 2

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.

**Project:** 1150.001; 1230 14th St

**Comments:** samples 001 & 002 on a 3day all others on 1day TAT.

Client Contact: Morgan Gillies Contact's Email: mgillies@pangeaenv.com Work Order: 1511568 Date Received: 11/12/2015

		WaterTrax	WriteOn	✓ EDF	Excel	]Fax 🖌 Email	HardC	opy ThirdPart	у 🗌	J-flag
Lab ID	Client ID	Matrix	Test Name		Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	ТАТ	Sediment Hold SubOut Content
1511568-001A	E-2	Soil	SW8021B/80	015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/11/2015 14:30	3 days	
1511568-002A	W-4	Soil	SW8021B/80	015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/11/2015 14:35	3 days	
1511568-003A	12N-10	Soil	SW8021B/80	015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/11/2015 15:05	1 day	
1511568-004A	12N-13	Soil	SW8021B/80	015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/12/2015 11:25	1 day	
1511568-005A	12N-15	Soil	SW8021B/80	015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/12/2015 11:40	1 day	
1511568-006A	12W-10	Soil	SW8021B/80	015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/12/2015 12:50	1 day	
1511568-007A	12N-17	Soil	SW8021B/80	015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/12/2015 13:20	1 day	
1511568-008A	12W-13	Soil	SW8021B/80	015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/12/2015 13:50	1 day	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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Γ	AcCAMP	BELL 1534 V	ANA Willow Pass	LY7 Road	<b>FIC</b>	AL	, II	NC			( a )			9	ті		N A	RC					)F	C	US	TO	D	YI	REC	CO	RD		0
We Telepho	bsite: <u>www.mc</u> one: (925) 252	campbell 2-9262	burg, CA 9 .com Ema	4565 ail: ma	ain@n F	ax:	mpb (925	ell.(	com 52-9	269	)			1	ED	FR	equi	red	? C	oelt	(No	rm	al)	RI No	USH	24 Wri	te O	t n (I	48 H DW)	IR N	72 H	R	5 DAY
Report To: Mor	gan Gillies	San .	E	Bill To	o: Pa	ngea	1							T		2				A	naly	sis I	Req	uest						T	Other	Т	Comments
<b>Company:</b> Pange	ea Environme	ental Ser	vices, Inc			8										-								-						Г		Т	Filter
1710 Franklin St	reet, Suite 200	), Oakla	nd, CA 9	4612											BE																		Samples
· · · · · · · · · · · · · · · · · · ·			E	-Mail	: mgil	llies	@pa	ang	eaen	v.c	om				LW/																		for Metals
Tele: (510) 836-3	702		F	'ax: (	510) 8	836-	370	9							8015)																	3	analysis:
Project #: 1150.0	01	et al.	P	rojec	t Nan	ne:	123	0 14	4 <sup>th</sup> S	t					*													8				1	Yes / No
Project Location:	1230 14 <sup>th</sup> St	., Oaklar	ıd												8020																		
Sampler Signatur	re:	-10	el									_			(602/																		
-		SAM	PLING	s		1	MA	TR	IX	F	ME	THO	OD VED		Gas	8260																	
SAMPLE ID	LOCATION (Field Point Name)	Date	Time	# Container	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	Other	Ouller 1	BTEX & TPH as	5 Oxygenates (										4							
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W-4	A. Carton	11/11	1435	1	Slew		í							>	X												1					1	12HOTAT
121-10	21.0	14/4	1505	1	1									Ś	$\langle \rangle$																	1	24 hrta
121-13	-	11/12	1125					_		+	_	-	_	P	$\leq$	_		_							_			_	_			1	4 hrTAT
121-15		1	1140				++-	+	-	+		-	-	R	<			-	_		_						_	_		_		4	24 hr. 1AT
120 - 10			1250					-	_	+		-	-	2	5	-											_					- 2	2thr. TAT
1210-17		V	1250		1		1	-		╋		+		K	×	-					_			-			-	-				-	19/4 TAT
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## Sample Receipt Checklist

Client Name:	Pangea Environmen	tal Svcs., Inc.			Date and 1	ime Received:	11/12/2015 3:50:17 PM
Project Name:	1150.001; 1230 14th	n St			LogIn Revi	ewed by:	Maria Venegas
WorkOrder №:	1511568	Matrix: <u>Soil</u>			Carrier:	Bernie Cummir	ns (MAI Courier)
		Chain of C	ustody	<u>/ (COC) lı</u>	nformation		
Chain of custody	present?		Yes	✓	No 🗌		
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No 🗌		
Chain of custody	agrees with sample la	ibels?	Yes	✓	No 🗌		
Sample IDs note	d by Client on COC?		Yes	✓	No 🗌		
Date and Time of	f collection noted by C	lient on COC?	Yes	✓	No 🗌		
Sampler's name	noted on COC?		Yes	✓	No		
		Sample	e Rece	eipt Infori	<u>mation</u>		
Custody seals int	act on shipping contai	ner/cooler?	Yes		No 🗌		NA 🖌
Shipping contain	er/cooler in good cond	ition?	Yes	✓	No 🗌		
Samples in prope	er containers/bottles?		Yes	✓	No 🗌		
Sample containe	rs intact?		Yes	✓	No 🗌		
Sufficient sample	volume for indicated	test?	Yes	✓	No 🗌		
		Sample Preservatio	on and	Hold Tin	ne (HT) Info	rmation	
All samples recei	ved within holding time	e?	Yes	✓	No 🗌		
Sample/Temp Bl	ank temperature			Temp:	7.6°C		
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes		No 🗌		NA 🗹
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No 🗌		
pH acceptable up	oon receipt (Metal: <2;	522: <4; 218.7: >8)?	Yes		No 🗌		NA 🗹
Samples Receive	ed on Ice?		Yes	✓	No 🗌		
		(Ісе Туре	: WE	TICE )	1		
UCMR3 Samples	<u>;;</u> tested and acceptable	upon receipt for FPA 5222	Yes		No 🗌		
Free Chlorine t	ested and acceptable	upon receipt for EPA 218.7.	Yes		No 🗌		
300.1, 537, 539	)? )	,, <u>.</u> ,		_			

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

Comments:

\_\_\_\_



McCampbell Analytical, Inc.

"When Quality Counts"

# **Analytical Report**

**WorkOrder:** 1511514 A

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200 Oakland, CA 94612

<b>Project Contact:</b>	Morgan Gillies
Project P.O.:	

**Project Name:** 1150.001; 1230 14th St

**Project Received:** 11/11/2015

Analytical Report reviewed & approved for release on 11/16/2015 by:

Angela Rydelius, Laboratory Manager

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



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3



## **Glossary of Terms & Qualifier Definitions**

Client: Pangea Environmental Svcs., Inc.

**Project:** 1150.001; 1230 14th St

**WorkOrder:** 1511514

### **Glossary Abbreviation**

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

#### **Analytical Qualifiers**

Sspike recovery outside accepted recovery limitsc4surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.d2heavier gasoline range compounds are significant (aged gasoline?)d9no recognizable pattern



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/11/15 15:24
Date Prepared:	11/13/15
Project:	1150.001; 1230 14th St

 WorkOrder:
 1511514

 Extraction Method:
 SW1311 (ZHETCLP)/SW5030B

 Analytical Method:
 SW8021B/8015Bm

 Unit:
 mg/L

Client ID	Lab ID	Matrix	Date Co	llected	Instrument	Batch ID
S-9.5	1511514-003A	Soil	11/11/201	5 13:35	GC3	112942
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
TPH(g)			0.50	10		11/16/2015 16:17
МТВЕ			0.050	10		11/16/2015 16:17
Benzene	ND		0.0050	10		11/16/2015 16:17
Toluene			0.0050	10		11/16/2015 16:17
Ethylbenzene			0.0050	10		11/16/2015 16:17
Xylenes			0.0050	10		11/16/2015 16:17
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
aaa-TFT	108		70-130			11/16/2015 16:17
<u>Analyst(s):</u> IA		Ana	lytical Comm	<u>nents:</u> d	2	



Client:	Pangea Environmental Svcs., Inc.	WorkOrder:	1511514
Date Prepared:	11/13/15	BatchID:	112942
Date Analyzed:	11/16/15	<b>Extraction Method:</b>	SW1311
Instrument:	GC3	Analytical Method:	SW8021B/8015Bm
Matrix:	Soil	Unit:	mg/L
Project:	1150.001; 1230 14th St	Sample ID:	MB/LCS-112942

### QC Summary Report for SW8021B/8015Bm (ZHETCLP)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.0620	0.040	0.060	-	103	70-130
МТВЕ	ND	0.00902	0.0050	0.010	-	90	70-130
Benzene	ND	0.00988	0.00050	0.010	-	99	70-130
Toluene	ND	0.00997	0.00050	0.010	-	100	70-130
Ethylbenzene	ND	0.0101	0.00050	0.010	-	101	70-130
Xylenes	ND	0.0307	0.00050	0.030	-	102	70-130
Surrogate Recovery							
aaa-TFT	0.00946	0.00949		0.010	95	95	70-130

QA/QC Officer

McCampbell Analytical, 1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262	Inc.	CHAIN-OF-CUSTODY RECORD         WorkOrder:       1511514       A       ClientCode:       PEO	Page 1 of 1
	☐ WaterTrax ☐ WriteOn ✔ EDF	Excel Fax Email HardCopy	hirdParty J-flag
Report to: Morgan Gillies	Email: mgillies@pangeaenv.com	Bill to: Requested Bob Clark-Riddell	ITAT: 1 day;
Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200	cc/3rd Party: PO:	Pangea Environmental Svcs., Inc.Date Rec1710 Franklin Street, Ste. 200Date Rec	eived: 11/11/2015
Oakland, CA 94612 (510) 836-3700 FAX: (510) 836-3709	ProjectNo: 1150.001; 1230 14th St	Oakland, CA 94612Date AddDate Print	<i>l-On:</i> 11/13/2015 <i>nted:</i> 11/13/2015
		Requested Tests (See legend below)	)
Lab ID Client ID	Matrix Collection Da	te Hold 1 2 3 4 5 6 7 8	9 10 11 12

А

11/11/2015 13:35

Soil

#### Test Legend:

1511514-003

1 GMBTEX_ZHETCLP_S	2	3	4
5	6	7	8
9	10	11	12
			Prepared by: Briana Cutino

Add-On Prepared By: Jena Alfaro

**Comments:** <u>TCLP Benzene added to 003 on RUSH TAT 11/13/15</u>

S-9.5

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.

	McCampbe "When	ell Analy Quality Counts	<u>rtical, Inc</u>	<u>.</u>	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								
	WORK ORDER SUMMARY												
Client Name:	PANGEA ENVIRONMENT	INC.	QC Leve	LEVEL 2		Wo	rk Order:	1511514					
Project:	1150.001; 1230 14th St			<b>Client Contac</b>	t: Morgan Gi	llies		Date	<b>Received:</b>	11/11/2015			
Comments:	TCLP Benzene added to 003 on	RUSH TAT 1	1/13/15	Contact's Emai	l: mgillies@j	bangeaenv.com		Date	e Add-On:	11/13/2015			
Lab ID	Client ID	Matrix	Test Name		Containers /Composites	Bottle & Preservative	Collection Date & Time	ТАТ	Sediment Content	Hold SubOut			

1

Stainless Steel tube 2"x6"

11/11/2015 13:35

1 day\*

TPH(g)-MBTEX (ZHETCLP)

Soil

1511514-003A

S-9.5

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

				-		. ndà				25		_			21	15	14		1			6	1					
N We Telepho	IcCAMP	BELL 1534 V Pitts ccampbell 2-9262	ANA Willow Pass burg, CA 9 .com Ema	LYT Road 4565 ail: ma	TICA	ccampl	NC. bell.co 5) 252	2-92	69	S		J E	ruf df i	REA	ARC		HA DT elt (	IN IM Nori	OF E nal)		UST J JSH	CO 24 Write	DY HR On (	RE 48 H DW)	CO IR N	<b>RD</b> 72 F	IR	D 5 DAY
Report To: Morg	an Gillies		E	Bill To	: Pan	gea	P.P.			8, 10			-	5	2	X	Ana	lysis	Rec	uest						Other	(	Comments
Company: Pange 1710 Franklin Str	ea Environme eet, Suite 200	ental Ser 0, Oakla	vices, Inc nd, CA 9	4612 Maile	mail	liesan	anga	0.001			2	TBE		cilii.													F	Filter Samples
Tele: (510) 836-3	702		F	ax: (	510) 8	36-37(	angea	acity	.com			51/1		2									f	or Metals				
Project #: 1150.0	01		P	rojec	t Nam	e: 123	0 14 <sup>t</sup>	th St				8		1									an Ve	es / No				
<b>Project Location:</b>	1230 14th St	., Oaklaı	nd .	-								020		0	2									- 1				
Sampler Signatur	e:	11d	10								201	02/8		14	<b>'</b>													
	SAMPLING SAMPLING PRESERV				OD AVED	I as Gas ((	H as Gas (		CC																			
SAMPLE ID	(Field Point Name)	Date	Time	# Contair	Type Container	Water Soil	Air	Sludge Other	ICE	HCL	HNO <sub>3</sub> Other	BTEX & TPI	5 Oxygenat	ZHE T						-								
F-10 F-E-9.5 5-95		<i>u/ii</i>	1040 1130 1335	1	7500 11 11	×			XXX			XX			3													
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Relinquished By: Relinquished By:	-1-1	Date:	Time: Time:	Recei	ived By	w	nd III	TTT I	15	15	5:20	HI DI AI PI	EAD ECHI PPRO RESE	SPA LOR DPRI	CE AE INATI IATE ( ED IN 1	SENT ED IN CONT	LAB_ AINE	RS_										
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McCampbell Analytical, Inc.

"When Quality Counts"

# **Analytical Report**

**WorkOrder:** 1511717 A

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200 Oakland, CA 94612

Project Contact:	Morgan Gillies
------------------	----------------

Project P.O.:

**Project Name:** 1150.001; 1230 14th St

**Project Received:** 11/17/2015

Analytical Report reviewed & approved for release on 11/23/2015 by:

Angela Rydelius, Laboratory Manager

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# **Glossary of Terms & Qualifier Definitions**

Client: Pangea Environmental Svcs., Inc.

**Project:** 1150.001; 1230 14th St

WorkOrder: 1511717

### **Glossary Abbreviation**

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



# **Glossary of Terms & Qualifier Definitions**

Client: Pangea Environmental Svcs., Inc.

**Project:** 1150.001; 1230 14th St

**WorkOrder:** 1511717

### **Analytical Qualifiers**

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another $peak(s)$ / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
d2	heavier gasoline range compounds are significant (aged gasoline?)
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/17/15 15:38
Date Prepared:	11/20/15
Project:	1150.001; 1230 14th St

 WorkOrder:
 1511717

 Extraction Method:
 SW1311 (ZHETCLP)/SW5030B

 Analytical Method:
 SW8021B/8015Bm

 Unit:
 mg/L

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
N-13	1511717-006A	Soil	11/17/20 <sup>-</sup>	15 12:30	GC3	113249
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
TPH(g)			5.0	100		11/21/2015 14:10
МТВЕ			0.50	100		11/21/2015 14:10
Benzene	0.17		0.050	100		11/21/2015 14:10
Toluene			0.050	100		11/21/2015 14:10
Ethylbenzene			0.050	100		11/21/2015 14:10
Xylenes			0.15	100		11/21/2015 14:10
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
aaa-TFT	103		70-130			11/21/2015 14:10
Analyst(s): IA		Ana	lytical Comr	<u>ments:</u> d	1	

Client:	Pangea Environmental Svcs., Inc.	WorkOrder:	1511717
Date Prepared:	11/20/15	BatchID:	113249
Date Analyzed:	11/21/15	<b>Extraction Method:</b>	SW1311
Instrument:	GC3	Analytical Method:	SW8021B/8015Bm
Matrix:	Soil	Unit:	mg/L
Project:	1150.001; 1230 14th St	Sample ID:	MB/LCS-113249

## QC Summary Report for SW8021B/8015Bm (ZHETCLP)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.0601	0.040	0.060	-	100	70-130
MTBE	ND	0.00998	0.0050	0.010	-	100	70-130
Benzene	ND	0.0103	0.00050	0.010	-	103	70-130
Toluene	ND	0.0104	0.00050	0.010	-	104	70-130
Ethylbenzene	ND	0.0106	0.00050	0.010	-	106	70-130
Xylenes	ND	0.0320	0.0015	0.030	-	107	70-130
Surrogate Recovery							
aaa-TFT	0.00878	0.00896		0.010	88	90	70-130

QA/QC Officer

McCampbell Analytical, Inc. 1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262					<b>CH</b> Work	AIN Orde	<b>I-OF</b> r: 1511	- <b>CU</b> 1717	<b>JST</b> ( A	DDY Clier	<b>RE</b>	COR : peo	RD		Page	1 of 1	l
		WaterTrax	WriteOr	n 🖌 EDF	E	Excel		Fax	✓	Email		HardCo	ру	ThirdF	'arty	_J-fla	g
Report to: Morgan Gillies		Email: mgillies@pangeaenv.com			Bill to: Bob Clark-Riddell							Requested TAT:			1 day;		
Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200		cc/3rd Party: PO:			Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200							Date Received:					
Oakland, CA 94612 (510) 836-3700 FAX: (510) 836-3709		ProjectNo: 1150.001; 1230 14th St			Oakland, CA 94612							Date Logged: Date Add-On:			11/17/2015 11/18/2015		
					Γ				Re	quested	Tests (	(See lege	end be	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1511717-006	N-13		Soil	11/17/2015 12:30		А											

#### Test Legend:

1 GMBTEX_ZHETCLP_S	2	3	4
5	6	7	8
9	10	11	12
			Prepared by: Agustina Venegas

Add-On Prepared By: Jena Alfaro

#### Comments: <u>1 Day & 5 Day. RUSH Benzene TCLP 11/18/15 1D TAT</u>

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 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com						
			Y	WORK ORDE	R SUMM	ARY					
Client Name:	PANGEA ENVIRO	ONMENTAL SVCS.,	INC.	QC Leve	el: LEVEL 2			Wo	rk Order:	1511717	
Project:	1150.001; 1230 14	th St		Client Contac	t: Morgan G	illies		Dat	e Logged:	11/17/2015	
Comments:	1 Day & 5 Day. RUS	H Benzene TCLP 11/18	/15 1D TAT	Contact's Ema	il: mgillies@j	pangeaenv.com		Date	Add-On:	11/18/2015	
Lab ID	Client ID	Matrix	Test Name		Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold SubOut	
1511717-006A	N-13	Soil	TPH(g)-MBTEX	(ZHETCLP)	1	Stainless Steel tube 2"x6"	11/17/2015 12:30	3 days*			

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

N Web Telepho	IcCAMP site: <u>www.mcc</u> ne: (925) 252	BELL 1534 V Pittsl campbell. -9262	ANAI Villow Pass burg, CA 94 <u>com</u> Ema	LYT Road 4565 iil: ma	TICA in@m F	AL, II accampb ax: (925	NC.	m 2-9269	9		T EI	UF DF I	RN A	ARC	CH DUN ? Coo	HAI DT	IMI IMI	OF E nal)	CU K RU No	JST SH W	COD 24 H Vrite	Y F R On (I	₹EC 48 HI 9W)	COI R No	RD 72 H	R 5 DA
Report To: Morg	an Gillies	-	B	ill To	: Par	ngea		- 8/8		1	10.0		L			Ana	lysis	Req	uest		- 3			0	ther	Comn
Company: Pange	a Environme	ntal Ser	vices, Inc			_		-			-		1					2011								Filter
1710 Franklin Str	eet, Suite 200	, Oakla	nd, CA 9	4612			-				TBE		3	See.						-			- N		1	Samp
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Tele: (510) 830-37	/02		F	ax: (	510) a	\$36-370	9				8015		0)	100				-						1		analys
Project #: 1150.00	1220 14th St	Oaldan	P	rojec	t Nan	ie: 123	0 14"	St		-	+ 03	2	7			100								1		Yes / f
Somplor Signature	1230 14	, Oakian			3.4				1		2/80		à													
Sampler Signature		yan						<u> </u>	ME	THOD	s (60	(05	N				-									
		SAMI	PLING	s	Ι.	MA	TRD	<	PRES	ERVE	S Ga	(82)	Q								-					
SAMPLE ID	LOCATION (Field Point Name)	Date	Time	# Containe	Type Containers	Water Soil	Air	Other	ICE	HNO <sub>3</sub>	Other BTEX & TPH a	5 Oxygenates	TCUPE													
SE-3.		11/17	1015	1	55	X			X		X				-	+	+			+			+		-	Sdui
SE-9	2.	1	1025	1	7 COL	×		5	2		X							0	1					1		Sdev
E-9.	8		1120			X			X		X					_									-	Rus
E-13			1130	_		X			X		X	_				-		-								Rus
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McCampbell Analytical, Inc.

"When Quality Counts"

# **Analytical Report**

WorkOrder:1511717Report Created for:Pangea Environmental Svcs., Inc.1710 Franklin Street, Ste. 200<br/>Oakland, CA 94612Project Contact:Morgan GilliesProject P.O.:1150.001; 1230 14th StProject Received:11/17/2015

Analytical Report reviewed & approved for release on 11/23/2015 by:

Angela Rydelius, Laboratory Manager

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### **Glossary of Terms & Qualifier Definitions**

Client: Pangea Environmental Svcs., Inc.

**Project:** 1150.001; 1230 14th St

WorkOrder: 1511717

#### **Glossary Abbreviation**

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



### **Glossary of Terms & Qualifier Definitions**

Client: Pangea Environmental Svcs., Inc.

**Project:** 1150.001; 1230 14th St

**WorkOrder:** 1511717

#### **Analytical Qualifiers**

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
d2	heavier gasoline range compounds are significant (aged gasoline?)
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/17/15 15:38
Date Prepared:	11/17/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511717
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
E-9	1511717-003A	Soil	11/17/2015 11:20 GC7	113038
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND		1.0 1	11/17/2015 20:43
MTBE	ND		0.050 1	11/17/2015 20:43
Benzene	ND		0.0050 1	11/17/2015 20:43
Toluene	ND		0.0050 1	11/17/2015 20:43
Ethylbenzene	ND		0.0050 1	11/17/2015 20:43
Xylenes	ND		0.015 1	11/17/2015 20:43
Surrogates	<u>REC (%)</u>		Limits	
2-Fluorotoluene	100		70-130	11/17/2015 20:43
Analyst(s): IA				
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
Client ID E-13	Lab ID 1511717-004A	Matrix Soil	Date Collected Instrument	Batch ID 113038
Client ID E-13 Analytes	Lab ID 1511717-004A <u>Result</u>	Matrix Soil	Date Collected         Instrument           11/17/2015         11:30         GC7           RL         DF	Batch ID 113038 Date Analyzed
Client ID E-13 Analytes TPH(g)	Lab ID 1511717-004A <u>Result</u> ND	Matrix Soil	Date Collected         Instrument           11/17/2015         11:30         GC7           RL         DE         1.0         1	Batch ID           113038           Date Analyzed           11/17/2015 21:13
Client ID E-13 Analytes TPH(g) MTBE	Lab ID           1511717-004A           Result           ND           ND           ND	Matrix Soil	Date Collected         Instrument           11/17/2015         11:30         GC7           RL         DF         1.0         1           0.050         1         1	Batch ID           113038           Date Analyzed           11/17/2015 21:13           11/17/2015 21:13
Client ID E-13 Analytes TPH(g) MTBE Benzene	Lab ID           1511717-004A           Result           ND           ND           ND           ND           ND           ND	Matrix Soil	Date Collected         Instrument           11/17/2015         11:30         GC7           RL         DF         1.0           0.050         1         1           0.0050         1         1	Batch ID           113038           Date Analyzed           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13
Client ID E-13 Analytes TPH(g) MTBE Benzene Toluene	Lab ID           1511717-004A           Result           ND	Matrix Soil	Date Collected         Instrument           11/17/2015         11:30         GC7           RL         DF         100         1           0.050         1         1           0.0050         1         1           0.0050         1         1	Batch ID           113038           Date Analyzed           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13
Client ID E-13 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene	Lab ID           1511717-004A           Result           ND	Matrix Soil	Date Collected         Instrument           11/17/2015         11:30         GC7           RL         DF            1.0         1            0.050         1            0.0050         1            0.0050         1            0.0050         1            0.0050         1	Batch ID           113038           Date Analyzed           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13
Client ID E-13 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes	Lab ID           1511717-004A           Result           ND           ND	Matrix Soil	Date Collected         Instrument           11/17/2015         11:30         GC7           RL         DE         1.0         1           0.050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1           0.0050         1         1	Batch ID           113038           Date Analyzed           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13
Client ID E-13 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates	Lab ID 1511717-004A Result ND ND ND ND ND ND ND ND ND ND	Matrix Soil	Date Collected         Instrument           11/17/2015         11:30         GC7           RL         DF         100         1           1.0         1         100         1           0.050         1         100         1           0.0050         1         100         100           0.0050         1         100         100           0.0050         1         100         100           0.0050         1         100         100           0.015         1         100         100           Limits         V         V         V	Batch ID           113038           Date Analyzed           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13
Client ID E-13 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates 2-Fluorotoluene	Lab ID 1511717-004A Result ND ND ND ND ND ND ND ND ND ND ND ND	Matrix Soil	Date Collected         Instrument           11/17/2015         11:30         GC7           RL         DE         100         1           1.0         1         100         1           0.050         1         100         1           0.0050         1         100         100           0.0050         1         100         100           0.0050         1         100         100           0.015         1         100         100           Limits         70-130         100         100	Batch ID           113038           Date Analyzed           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13           11/17/2015 21:13



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/17/15 15:38
Date Prepared:	11/17/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511717
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
N-9	1511717-005A	Soil	11/17/2015 11:50 GC7	113038
Analytes	Result		<u>RL DF</u>	Date Analyzed
TPH(g)	2600		100 100	11/17/2015 22:42
MTBE	ND		5.0 100	11/17/2015 22:42
Benzene	ND		0.50 100	11/17/2015 22:42
Toluene	2.3		0.50 100	11/17/2015 22:42
Ethylbenzene	6.4		0.50 100	11/17/2015 22:42
Xylenes	200		1.5 100	11/17/2015 22:42
<u>Surrogates</u>	<u>REC (%)</u>		Limits	
2-Fluorotoluene	87		70-130	11/17/2015 22:42
Analyst(s): IA			Analytical Comments: d2	
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
N-13	1511717-006A	Soil	11/17/2015 12:30 GC7	113038
N-13 Analytes	1511717-006A <u>Result</u>	Soil	11/17/2015 12:30 GC7	113038 Date Analyzed
N-13 Analytes TPH(g)	1511717-006A <u>Result</u> 7200	Soil	11/17/2015 12:30         GC7           RL         DF           500         500	<b>113038</b> <u>Date Analyzed</u> 11/18/2015 10:40
N-13 Analytes TPH(g) MTBE	1511717-006A Result 7200 ND	Soil	III/17/2015 12:30     GC7       RL     DE       500     500       25     500	113038 Date Analyzed 11/18/2015 10:40 11/18/2015 10:40
N-13 Analytes TPH(g) MTBE Benzene	1511717-006A <u>Result</u> 7200 ND 34	Soil	11/17/2015 12:30     GC7       RL     DE       500     500       25     500       2.5     500	113038 <u>Date Analyzed</u> 11/18/2015 10:40 11/18/2015 10:40 11/18/2015 10:40
N-13 Analytes TPH(g) MTBE Benzene Toluene	1511717-006A <u>Result</u> 7200 ND 34 300	Soil	III/17/2015 12:30     GC7       RL     DF       500     500       25     500       2.5     500       2.5     500	113038           Date Analyzed           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40
N-13         Analytes         TPH(g)         MTBE         Benzene         Toluene         Ethylbenzene	1511717-006A <u>Result</u> 7200 ND 34 300 120	Soil	RL     DF       500     500       25     500       2.5     500       2.5     500       2.5     500       2.5     500       2.5     500	113038           Date Analyzed           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40
N-13         Analytes         TPH(g)         MTBE         Benzene         Toluene         Ethylbenzene         Xylenes	1511717-006A <u>Result</u> 7200 ND 34 300 120 730	Soil	RL     DE       500     500       25     500       2.5     500       2.5     500       2.5     500       7.5     500	113038           Date Analyzed           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40
N-13         Analytes         TPH(g)         MTBE         Benzene         Toluene         Ethylbenzene         Xylenes         Surrogates	1511717-006A Result 7200 ND 34 300 120 730 <u>REC (%)</u>	Soil	RL     DE       500     500       25     500       2.5     500       2.5     500       2.5     500       2.5     500       2.5     500       2.5     500       2.5     500       2.5     500       2.5     500       2.5     500       1.5     500	113038           Date Analyzed           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40
N-13         Analytes         TPH(g)         MTBE         Benzene         Toluene         Ethylbenzene         Xylenes         Surrogates         2-Fluorotoluene	1511717-006A           Result           7200           ND           34           300           120           730           REC (%)           830	Soil Qualifiers S	III/17/2015 12:30       GC7         RL       DF         500       500         25       500         2.5       500         2.5       500         2.5       500         2.5       500         2.5       500         2.5       500         2.5       500         7.5       500         Limits       70-130	113038           Date Analyzed           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40           11/18/2015 10:40



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/17/15 15:38
Date Prepared:	11/17/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511717
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Colle	ected Instrument	Batch ID
NN-9	1511717-009A	Soil	11/17/2015	12:45 GC7	113038
<u>Analytes</u>	Result		RL	DF	Date Analyzed
TPH(g)	ND		1.0	1	11/17/2015 21:43
MTBE	ND		0.050	1	11/17/2015 21:43
Benzene	ND		0.0050	1	11/17/2015 21:43
Toluene	ND		0.0050	1	11/17/2015 21:43
Ethylbenzene	ND		0.0050	1	11/17/2015 21:43
Xylenes	ND		0.015	1	11/17/2015 21:43
<u>Surrogates</u>	<u>REC (%)</u>		Limits		
2-Fluorotoluene	107		70-130		11/17/2015 21:43
<u>Analyst(s):</u> IA					
Client ID	Lab ID	Matrix	Date Colle	ected Instrument	Batch ID
NN-13	1511717-010A	Soil	11/17/2015	12:55 GC7	113038
Analytes					
	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	<u>Result</u> <b>410</b>		<u>RL</u> 100	<u>DF</u> 100	<u>Date Analyzed</u> 11/18/2015 02:40
TPH(g) MTBE	<u>Result</u> 410 ND		<u>RL</u> 100 5.0	DF 100 100	Date Analyzed 11/18/2015 02:40 11/18/2015 02:40
TPH(g) MTBE Benzene	Result           410           ND           ND		RL 100 5.0 0.50	DE 100 100 100	Date Analyzed 11/18/2015 02:40 11/18/2015 02:40 11/18/2015 02:40
TPH(g) MTBE Benzene Toluene	Result           410           ND           ND           0.58		RL 100 5.0 0.50 0.50	DE 100 100 100 100	Date Analyzed           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40
TPH(g) MTBE Benzene Toluene Ethylbenzene	Result           410           ND           0.58           3.2		RL 100 5.0 0.50 0.50 0.50	DE 100 100 100 100 100	Date Analyzed           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40
TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes	Result           410           ND           0.58           3.2           7.4		RL         100         5.0         0.50         0.50         0.50         1.5	DE 100 100 100 100 100 100	Date Analyzed           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40
TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates	Result           410           ND           0.58           3.2           7.4		RL         100         5.0         0.50         0.50         0.50         1.5         Limits	DE 100 100 100 100 100 100	Date Analyzed           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40
TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates aaa-TFT	Result           410           ND           0.58           3.2           7.4           REC (%)           107		RL         100         5.0         0.50         0.50         0.50         1.5         Limits         70-130	DE 100 100 100 100 100 100	Date Analyzed           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40           11/18/2015 02:40



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/17/15 15:38
Date Prepared:	11/17/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511717
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Collected	Instrument Batch ID
NNN-9	1511717-011A	Soil	11/17/2015 13:45	GC7 113038
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND		1.0 1	11/17/2015 22:12
MTBE	ND		0.050 1	11/17/2015 22:12
Benzene	ND		0.0050 1	11/17/2015 22:12
Toluene	ND		0.0050 1	11/17/2015 22:12
Ethylbenzene	ND		0.0050 1	11/17/2015 22:12
Xylenes	ND		0.015 1	11/17/2015 22:12
<u>Surrogates</u>	<u>REC (%)</u>		Limits	
2-Fluorotoluene	110		70-130	11/17/2015 22:12
<u>Analyst(s):</u> IA				
Client ID	Lab ID	Matrix	Date Collected	Instrument Batch ID
NNN-13	1511717-012A	Soil	11/17/2015 14:00	GC7 113038
Analytes	Result		<u>RL</u> DF	Date Analyzed
TPH(g)	15		1.0 1	11/17/2015 19:14
MTBE	ND		0.050 1	11/17/2015 19:14
Benzene	ND		0.0050 1	11/17/2015 19:14
Toluene	0.039		0.0050 1	11/17/2015 19:14
Ethylbenzene	ND		0.0050 1	11/17/2015 19:14
Xylenes	0.029		0.015 1	11/17/2015 19:14
Surrogates			Limite	
	<u>REC (%)</u>		Limits	
2-Fluorotoluene	<u>REC (%)</u> 99		70-130	11/17/2015 19:14



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/17/15 15:38
Date Prepared:	11/17/15-11/18/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511717
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Col	lected Instrument	Batch ID
SE-3	1511717-001A	Soil	11/07/2015	5 10:15 GC7	113038
<u>Analytes</u>	Result		<u>RL</u>	DF	Date Analyzed
TPH(g)	ND		1.0	1	11/18/2015 02:10
MTBE	ND		0.050	1	11/18/2015 02:10
Benzene	ND		0.0050	1	11/18/2015 02:10
Toluene	ND		0.0050	1	11/18/2015 02:10
Ethylbenzene	ND		0.0050	1	11/18/2015 02:10
Xylenes	ND		0.015	1	11/18/2015 02:10
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	105		70-130		11/18/2015 02:10
Analyst(s): IA					
Client ID	Lab ID	Matrix	Date Col	lected Instrument	Batch ID
Client ID SE-9	Lab ID 1511717-002A	Matrix Soil	Date Col 11/17/2015	lected Instrument 5 10:25 GC19	Batch ID 113067
Client ID SE-9 Analytes	Lab ID 1511717-002A <u>Result</u>	Matrix Soil	Date Col 11/17/2015 <u>RL</u>	lected     Instrument       5 10:25     GC19       DF	Batch ID 113067 Date Analyzed
Client ID SE-9 Analytes TPH(g)	Lab ID 1511717-002A <u>Result</u> ND	Matrix Soil	Date Col 11/17/2015 <u>RL</u> 1.0	lected Instrument 5 10:25 GC19 DE 1	Batch ID 113067 Date Analyzed 11/18/2015 18:30
Client ID SE-9 Analytes TPH(g) MTBE	Lab ID 1511717-002A Result ND ND	Matrix Soil	Date Col 11/17/2015 <u>RL</u> 1.0 0.050	lected     Instrument       5     10:25     GC19       DF     1       1     1	Batch ID           113067           Date Analyzed           11/18/2015 18:30           11/18/2015 18:30
Client ID SE-9 Analytes TPH(g) MTBE Benzene	Lab ID 1511717-002A Result ND ND ND	Matrix Soil	Date Col           11/17/2015           RL           1.0           0.050           0.0050	lected     Instrument       5     10:25     GC19       DF     1       1     1       1     1	Batch ID           113067           Date Analyzed           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30
Client ID SE-9 Analytes TPH(g) MTBE Benzene Toluene	Lab ID 1511717-002A Result ND ND ND ND	Matrix Soil	RL         0.050           0.0050         0.0050	lectedInstrument5 10:25GC19DE111111111	Batch ID           113067           Date Analyzed           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30
Client ID SE-9 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene	Lab ID           1511717-002A           Result           ND	Matrix Soil	Bate Col           11/17/2015           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050	lectedInstrument5 10:25GC19DF1111111111111	Batch ID           113067           Date Analyzed           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30
Client ID SE-9 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes	Lab ID           1511717-002A           Result           ND           ND	Matrix Soil	Bate Col           11/17/2015           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.015	Iected         Instrument           5         10:25         GC19           DF         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1	Datch ID           113067           Date Analyzed           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30
Client ID SE-9 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates	Lab ID           1511717-002A           Result           ND	Matrix Soil	Bate Col           11/17/2015           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.015           Limits	Instrument           5 10:25         GC19           DE         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	Date Analyzed           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30
Client ID SE-9 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates 2-Fluorotoluene	Lab ID 1511717-002A Result ND ND ND ND ND ND ND ND ND ND ND	Matrix Soil	Date Col           11/17/2015           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.015           Limits           70-130	Instrument           5 10:25         GC19           DF         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	Batch ID           113067           Date Analyzed           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30           11/18/2015 18:30



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/17/15 15:38
Date Prepared:	11/17/15-11/18/15
Project:	1150.001; 1230 14th St

WorkOrder:	1511717
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg

Client ID	Lab ID	Matrix	Date Co	llected Instrumen	t Batch ID
SW-9	1511717-007A	Soil	11/17/201	5 12:25 GC19	113038
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
TPH(g)	ND		1.0	1	11/18/2015 19:01
MTBE	ND		0.050	1	11/18/2015 19:01
Benzene	ND		0.0050	1	11/18/2015 19:01
Toluene	ND		0.0050	1	11/18/2015 19:01
Ethylbenzene	ND		0.0050	1	11/18/2015 19:01
Xylenes	ND		0.015	1	11/18/2015 19:01
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	116		70-130		11/18/2015 19:01
Analyst(s): IA					
Client ID	Lab ID	Matrix	Date Co	llected Instrumen	t Batch ID
Client ID sw-3	Lab ID 1511717-008A	Matrix Soil	Date Co 11/17/201	llected Instrumen 5 12:30 GC7	t Batch ID 113038
Client ID sw-3 Analytes	Lab ID 1511717-008A <u>Result</u>	Matrix Soil	Date Co 11/17/201 <u>RL</u>	llected Instrumen 5 12:30 GC7	t Batch ID 113038
Client ID sw-3 Analytes TPH(g)	Lab ID 1511717-008A <u>Result</u> ND	Matrix Soil	Date Co 11/17/201 <u>RL</u> 1.0	Ilected Instrumen 5 12:30 GC7 DE 1	t Batch ID 113038 Date Analyzed 11/18/2015 04:09
Client ID sw-3 Analytes TPH(g) MTBE	Lab ID           1511717-008A           Result           ND           ND	Matrix Soil	Date Co 11/17/201 <u>RL</u> 1.0 0.050	llected Instrumen 5 12:30 GC7 DF 1 1	t Batch ID 113038 Date Analyzed 11/18/2015 04:09 11/18/2015 04:09
Client ID sw-3 Analytes TPH(g) MTBE Benzene	Lab ID           1511717-008A           Result           ND           ND           ND           ND           ND           ND	Matrix Soil	Date Co           11/17/201           RL           1.0           0.050           0.0050	Ilected     Instrumen       5 12:30     GC7       DF     1       1     1       1     1	t Batch ID 113038 Date Analyzed 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09
Client ID Sw-3 Analytes TPH(g) MTBE Benzene Toluene	Lab ID           1511717-008A           Result           ND	Matrix Soil	Date Co           11/17/201           RL           1.0           0.050           0.0050           0.0050	Ilected         Instrumen           5 12:30         GC7           DE         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	t Batch ID 113038 Date Analyzed 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09
Client ID sw-3 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene	Lab ID           1511717-008A           Result           ND	Matrix Soil	Date Co           11/17/201           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050	Ilected         Instrumen           5 12:30         GC7           DF         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	t Batch ID 113038 Date Analyzed 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09
Client ID SW-3 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes	Lab ID           1511717-008A           Result           ND	Matrix Soil	Date Co           11/17/201           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050	Ilected         Instrumen           5 12:30         GC7           DF         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	t Batch ID 113038 Date Analyzed 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09
Client ID SW-3 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates	Lab ID           1511717-008A           Result           ND	Matrix Soil	Date Co           11/17/201           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.015           Limits	Ilected         Instrumen           5 12:30         GC7           DF         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	t Batch ID 113038 Date Analyzed 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09
Client ID sw-3 Analytes TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes Surrogates 2-Fluorotoluene	Lab ID           1511717-008A           Result           ND           ND <td>Matrix Soil</td> <td>Date Co           11/17/201           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.015           Limits           70-130</td> <td>Ilected         Instrumen           5 12:30         GC7           DE         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1</td> <td>t Batch ID 113038 Date Analyzed 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09</td>	Matrix Soil	Date Co           11/17/201           RL           1.0           0.050           0.0050           0.0050           0.0050           0.0050           0.0050           0.0050           0.015           Limits           70-130	Ilected         Instrumen           5 12:30         GC7           DE         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	t Batch ID 113038 Date Analyzed 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09 11/18/2015 04:09



# **Quality Control Report**

Client:	Pangea Environmental Svcs., Inc.	WorkOrder:	1511717
<b>Date Prepared:</b>	11/17/15	BatchID:	113038
Date Analyzed:	11/17/15	<b>Extraction Method:</b>	SW5030B
Instrument:	GC7	Analytical Method:	SW8021B/8015Bm
Matrix:	Soil	Unit:	mg/Kg
Project:	1150.001; 1230 14th St	Sample ID:	MB/LCS-113038 1511717-012AMS/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	0.522	0.40	0.60	-	87	70-130
MTBE	ND	0.0896	0.050	0.10	-	90	70-130
Benzene	ND	0.0977	0.0050	0.10	-	98	70-130
Toluene	ND	0.0906	0.0050	0.10	-	91	70-130
Ethylbenzene	ND	0.0972	0.0050	0.10	-	97	70-130
Xylenes	ND	0.307	0.015	0.30	-	102	70-130
Surrogate Recovery							
2-Fluorotoluene	0.111	0.115		0.10	111	115	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		ND	NR	NR	-	NR	
MTBE	NR	NR		ND	NR	NR	-	NR	
Benzene	NR	NR		ND	NR	NR	-	NR	
Toluene	NR	NR		0.039	NR	NR	-	NR	
Ethylbenzene	NR	NR		ND	NR	NR	-	NR	
Xylenes	NR	NR		0.029	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

QA/QC Officer

#### McCampbell Analytical, Inc.

FAX: (510) 836-3709

WaterTrax



Report to:

Morgan Gillies

Oakland, CA 94612 (510) 836-3700

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

Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200

# **CHAIN-OF-CUSTODY RECORD**

WorkO	rder: 1511717	Clier	ntCode: PEO	Code: PEO						
Excel	EQuIS	🖌 Email	HardCopy	ThirdParty	J-flag					
Bi	ll to: Bob Clark-Ridd	ell	Requ	lested TATs:	1 day; 5 days;					
	Pangea Enviror 1710 Franklin S Oakland, CA 94	nmental Svcs., street, Ste. 200 612	Inc. ) Date Date	e Received: e Printed:	11/17/2015 11/18/2015					
	WorkOn	WorkOrder: 1511717	WorkOrder: 1511717 Clien Excel ■EQuIS ✓Email Bill to: Bob Clark-Riddell Pangea Environmental Svcs., 1710 Franklin Street, Ste. 200 Oakland, CA 94612	WorkOrder: 1511717 ClientCode: PEO Excel EQuIS Equis Equis Equis Equis Enail HardCopy Bill to: Requ Bob Clark-Riddell Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Data Oakland, CA 94612 Data	WorkOrder:       1511717       ClientCode:       PEO         Excel       EQuIS       Email       HardCopy       ThirdParty         Bill to:       Requested TATs:       Bob Clark-Riddell       Requested TATs:         Pangea Environmental Svcs., Inc.       1710 Franklin Street, Ste. 200       Date Received:         Oakland, CA 94612       Date Printed:					

				ſ	Requested Tests (See legend below)													
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12		
1511717-001	SF-3	Soil	11/7/2015 10:15		Α	А												
1511717-002	SE-9	Soil	11/17/2015 10:25		A													
1511717-003	E-9	Soil	11/17/2015 11:20		А													
1511717-004	E-13	Soil	11/17/2015 11:30		А													
1511717-005	N-9	Soil	11/17/2015 11:50		А													
1511717-006	N-13	Soil	11/17/2015 12:30		А													
1511717-007	SW-9	Soil	11/17/2015 12:25		А													
1511717-008	SW-3	Soil	11/17/2015 12:30		А													
1511717-009	NN-9	Soil	11/17/2015 12:45		А													
1511717-010	NN-13	Soil	11/17/2015 12:55		А													
1511717-011	NNN-9	Soil	11/17/2015 13:45		А													
1511717-012	NNN-13	Soil	11/17/2015 14:00		A													

#### Test Legend:

1	G-MBTEX_S
5	
9	

2	PREDF REPORT
6	
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7	
11	

4	
8	
12	

**Prepared by: Agustina Venegas** 

**Comments:** 1 Day & 5 Day

> 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.

Page 1 of 1



#### WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.

**Project:** 1150.001; 1230 14th St

Comments: 1 Day & 5 Day

QC Level: LEVEL 2 Client Contact: Morgan Gillies

Contact's Email: mgillies@pangeaenv.com

Work Order: 1511717 Date Received: 11/17/2015

		WaterTrax	☐WriteOn ✓ EDF	Excel	]Fax 🖌 Email	HardC	opy ThirdPart	у 🗌	J-flag
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
1511717-001A	SE-3	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/7/2015 10:15	5 days	
1511717-002A	SE-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 10:25	5 days	
1511717-003A	E-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 11:20	1 day	
1511717-004A	E-13	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 11:30	1 day	
1511717-005A	N-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 11:50	1 day	
1511717-006A	N-13	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 12:30	1 day	
1511717-007A	SW-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 12:25	5 days	
1511717-008A	SW-3	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 12:30	5 days	
1511717-009A	NN-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 12:45	1 day	
1511717-010A	NN-13	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 12:55	1 day	
1511717-011A	NNN-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 13:45	1 day	
1511717-012A	NNN-13	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"		11/17/2015 14:00	1 day	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

									F	21			SF	-	1	5	11	7	1	7						
McCAMPBELL ANALYTICAL, INC. 1534 Willow Pass Road Pittsburg, CA 94565 Website: www.mccampbell.com Telephone: (925) 252-9262 Fax: (925) 252-9269										1	T	URN . F Requ	ARO uired?	CI UN	HAI DT	IN O IMI	OF E			DD 24 HI rite (	YR R Dn (D'	EC 48 HR W)	OR [ 7 No	D 2 HR	S DAY	
Report To: Morgan Gillies Bill To: Pangea										, in the second s			Ana	lysis	Req	uest	Č				Oth	er	Comments			
Company: Pange	a Environmo	ental Serv	vices, Inc				S						126-			in and			- 1							Filter
1710 Franklin Str	eet, Suite 20	0, Oakla	nd, CA 9	4612	_				1			BE														Samples
			E-	Mail	: mgi	lies@p	ange	eaen	v.com	0	_	LW/														for Metals
Tele: (510) 836-3	702	- K	F	'ax: (	510)	836-370	9				_	8015														analysis:
Project #: 1150.0	01		Р	rojec	t Nan	ne: 123	0 14	th St			_	+														Yes / No
Project Location:	1230 14th St	., Oaklan	d									8020														
Sampler Signatur	e:	1 de	/	<u> </u>							_	(602)														· · · ·
		SAMI	PLING	5		MA	TRI	X	PRE	THOD	D	Gas	826(													2
SAMPLE ID	LOCATION (Field Point Name)	Date	Time	# Containers	Type Containers	Water Soil	Air	Sludge	ICE	HCL HNO <sub>3</sub>	Other	BTEX & TPH as	5 Oxygenates (													
SE-3.	-	11/17	1015	1	55	X			X			X				-			1		-		+		+	SchuTAT
SE-9		,	1025	1	Heart	X			8		2	<										-				5 deu TAT
E-9			1120			X			X		3	X							1					E		Rush
E-13			1130			X			X	_	/	X				_	_			_					_	Rush
N-9.			1120			X			X		- 2	X			_			-		_					-	Rash
511-9			1220			X	_		X	-	-2	X											+			Kash
Chi 3			1230			5			x		-<	$\mathbf{x}$							-				+			- Jack IA
NIN-a			12.45			Ŷ			X		- <	~			-								++			Puels
NN-13			1255			X	34		X		5	X			-			-							1	Rush
NNN-9			1345			X		14.1	×		5	K						-							4	Rush
NNN-13			1400	6	0	×			×		5	K														Rush
Sec. All			A 14 11		1					4	(			-			1						1.10			1. 1.
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Relinquished By:	151	Date:	Time:	Rece	ived B	N:ALI	at	Sin	21	1	-l'i	HE	AD SPA	CE ABS	SENT											
Relinquished By:		Date:	Time:	Rece	ived B	H	ŗ/	114	ny			DEC API PRI	CHLOR PROPRI ESERVE	INATE ATE C D IN L	D IN ONT. AB	LAB_ AINEI	RS &G	MET	ALS	OTHE	ER					
350 ·				1	<u></u>		_	134	1		1	PRI	ESERVA	TION		-	124	pH<2						_	X. 6	2



#### Sample Receipt Checklist

Client Name:	Pangea Environmen	tal Svcs., Inc.	Date and Time Received: 11/17/2015 3:38:59 PM						
Project Name:	1150.001; 1230 14th	l St			LogIn Revi	ewed by:	Agustina Venegas		
WorkOrder №:	1511717	Matrix: Soil			Carrier:	Bernie Cummir	ns (MAI Courier)		
		Chain of C	ustody	<u>y (COC) l</u>	nformation				
Chain of custody	present?		Yes	✓	No 🗌				
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No 🗌				
Chain of custody	agrees with sample la	bels?	Yes	✓	No 🗌				
Sample IDs noted	d by Client on COC?		Yes	✓	No 🗌				
Date and Time of	collection noted by C	lient on COC?	Yes	✓	No 🗌				
Sampler's name	noted on COC?		Yes	✓	No 🗌				
		Sample	e Rece	eipt Infori	mation				
Custody seals int	act on shipping contai	ner/cooler?	Yes		No 🗌		NA 🔽		
Shipping containe	er/cooler in good cond	ition?	Yes	✓	No 🗌				
Samples in prope	er containers/bottles?		Yes	✓	No 🗌				
Sample container	rs intact?		Yes	✓	No 🗌				
Sufficient sample	volume for indicated	test?	Yes	✓	No 🗌				
		Sample Preservation	on and	Hold Tin	<u>ne (HT) Info</u>	rmation			
All samples recei	ved within holding time	e?	Yes	✓	No 🗌				
Sample/Temp Bla	ank temperature			Temp:	3.9°C				
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes		No 🗌		NA 🗹		
Sample labels ch	ecked for correct pres	ervation?	Yes	✓	No				
pH acceptable up	oon receipt (Metal: <2;	522: <4; 218.7: >8)?	Yes		No 🗌		NA 🗹		
Samples Receive	ed on Ice?		Yes	✓	No 🗌				
		(Ісе Турє	e: WE	TICE )	)				
UCMR3 Samples Total Chlorine t	<u>:</u> ested and acceptable	upon receipt for EPA 522?	Yes		No 🗌		NA 🗹		
Free Chlorine to 300.1, 537, 539	ested and acceptable )?	upon receipt for EPA 218.7,	Yes		No 🗌		NA 🗹		

\_\_\_\_\_

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

\_\_\_\_

Comments:

\_\_\_\_\_

\_\_\_\_\_



McCampbell Analytical, Inc.

"When Quality Counts"

# **Analytical Report**

WorkOrder:	1511B03
Report Created for:	Pangea Environmental Svcs., Inc
	1710 Franklin Street, Ste. 200 Oakland, CA 94612
Project Contact:	Bob Clark-Riddell
Project P.O.: Project Name:	1150.001.425; 1230 14th
Project Received:	11/25/2015

Analytical Report reviewed & approved for release on 12/02/2015 by:

Angela Rydelius, Laboratory Manager

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



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3



### **Glossary of Terms & Qualifier Definitions**

Client: Pangea Environmental Svcs., Inc.

**Project:** 1150.001.425; 1230 14th

**WorkOrder:** 1511B03

#### **Glossary Abbreviation**

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

#### **Analytical Qualifiers**

d2	heavier gasoline range compounds are significant (aged gasoline?)
e7	oil range compounds are significant
e11	stoddard solvent/mineral spirit (?)



### **Glossary of Terms & Qualifier Definitions**

Client: Pangea Environmental Svcs., Inc.

**Project:** 1150.001.425; 1230 14th

**WorkOrder:** 1511B03

#### **Quality Control Qualifiers**

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



Client:	Pangea Environmental Svcs., Inc.
Date Received:	11/25/15 17:06
Date Prepared:	11/25/15
Project:	1150.001.425; 1230 14th

# WorkOrder: 1511B03 Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Unit: mg/Kg

Client ID	Lab ID	Matrix	Date C	Collected Instrument	Batch ID
NNN-3'	1511B03-001A	Soil	11/25/2	015 11:00 GC7	113423
Analytes	Result		<u>RL</u>	DF	Date Analyzed
TPH(g)	260		20	20	11/29/2015 00:49
МТВЕ	ND		1.0	20	11/29/2015 00:49
Benzene	ND		0.10	20	11/29/2015 00:49
Toluene	0.46		0.10	20	11/29/2015 00:49
Ethylbenzene	0.34		0.10	20	11/29/2015 00:49
Xylenes	12		0.30	20	11/29/2015 00:49
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	121		70-130		11/29/2015 00:49
<u>Analyst(s):</u> IA			Analytical Con	nments: d2	



Client:	Pangea Environmental Svcs., Inc.	WorkOrder:	1511B03
Date Received:	11/25/15 17:06	<b>Extraction Method:</b>	SW3550B
Date Prepared:	11/25/15	Analytical Method:	SW8015B
Project:	1150.001.425; 1230 14th	Unit:	mg/Kg

Total Extractable Petroleum	Hydrocarbons	w/out SG	Clean-Un
Total Extractable retroieum	nyurocarbons	w/out SG	Clean-Op

Client ID	Lab ID	Matrix	Date Coll	lected Instrument	Batch ID
NNN-3'	1511B03-001A	Soil	11/25/2015	511:00 GC9a	113452
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
TPH-Diesel (C10-C23)	140		1.0	1	11/27/2015 20:24
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	111		70-130		11/27/2015 20:24
<u>Analyst(s):</u> TK			Analytical Comme	ents: e11,e7	

Angela Rydelius, Lab Manager

# **Quality Control Report**

Client:	Pangea Environmental Svcs., Inc.
Date Prepared:	11/25/15
Date Analyzed:	11/25/15 - 12/1/15
Instrument:	GC7
Matrix:	Soil
Project:	1150.001.425; 1230 14th

WorkOrder:	1511B03
BatchID:	113423
<b>Extraction Method:</b>	SW5030B
Analytical Method:	SW8021B/8015Bm
Unit:	mg/Kg
Sample ID:	MB/LCS-113423
	1511A66-001AMS/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	0.518	0.40	0.60	-	86	70-130
МТВЕ	ND	0.0934	0.050	0.10	-	93	70-130
Benzene	ND	0.0953	0.0050	0.10	-	95	70-130
Toluene	ND	0.0926	0.0050	0.10	-	93	70-130
Ethylbenzene	ND	0.0967	0.0050	0.10	-	97	70-130
Xylenes	ND	0.308	0.015	0.30	-	103	70-130
Surrogate Recovery							
2-Fluorotoluene	0.129	0.116		0.10	129	116	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.527	0.521	0.60	ND	88	87	70-130	1.14	20
MTBE	0.0692	0.0719	0.10	ND	69,F1	72	70-130	3.82	20
Benzene	0.0942	0.102	0.10	ND	94	102	70-130	8.40	20
Toluene	0.0963	0.104	0.10	ND	96	105	70-130	8.15	20
Ethylbenzene	0.101	0.109	0.10	ND	101	109	70-130	7.78	20
Xylenes	0.320	0.345	0.30	ND	107	115	70-130	7.49	20
Surrogate Recovery									
2-Fluorotoluene	0.114	0.122	0.10		114	122	70-130	7.06	20

A/QC Officer Page 6 of 11

# **Quality Control Report**

Client:	Pangea Environmental Svcs., Inc.	WorkOrder:	1511B03
<b>Date Prepared:</b>	11/25/15	BatchID:	113452
Date Analyzed:	11/27/15 - 11/30/15	<b>Extraction Method:</b>	SW3550B
Instrument:	GC6B, GC9b	Analytical Method:	SW8015B
Matrix:	Soil	Unit:	mg/Kg
Project:	1150.001.425; 1230 14th	Sample ID:	MB/LCS-113452

QC Report for SW8015B w/out SG Clean-Up								
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits	
TPH-Diesel (C10-C23)	ND	39.4	1.0	40	-	98	70-130	
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-	
Surrogate Recovery								
C9	26.5	26.0		25	106	104	70-130	

QA/QC Officer

McCampbell Analytica	l, Inc.			CH	AIN	I-OF	-CU	ST	)DY	RE	COR	D	I	Page	1 of	1
Pittsburg, CA 94565-1701 (925) 252-9262				Work	cOrde	r: 1511	B03		Client(	Code:	PEO					
	WaterTrax	WriteOn	EDF	Ē	xcel	E	EQuIS		Email		HardCo	ру	ThirdPa	rty	_ J-fla	g
Report to: Bob Clark-Riddell	Email: E	3Riddell@pang	jeaenv.com		В	ill to: Bob Cla	ark-Rid	dell			I	Reque	sted TAT:	3	3 days;	
Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200	cc/3rd Party: PO:		1000 1 14			Pangea 1710 Fi	a Enviro ranklin	onment Street,	al Svcs Ste. 20	., Inc. 0	i	Date 1	Received:		11/25/2	015
Oakland, CA 94612 (510) 836-3700 FAX: (510) 836-37(	Projectino: 7	1150.001.425;	1230 14th			Oaklan	d, CA S	4612			1	Date I	Logged:		11/25/2	015
								Red	quested	Tests (	See lege	end be	low)			
Lab ID Client I	D	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12

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#### Test Legend:

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2	TPH(D)_S	:
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4	
8	
12	

#### **Prepared by:** Agustina Venegas

#### **Comments:**

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

	<u>M</u>	Campbell A "When Quality	Inc.		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										
				WO	RK ORD	ER SUN	IMARY								
Client Name Project: Comments:	: PANGEA EN 1150.001.42:	NVIRONMENTAL SV 5; 1230 14th	VCS., INC.		QC Le Client Cont Contact's En	wel: LEVE act: Bob ( nail: BRide	EL 2 Clark-Riddell lell@pangeaenv.co	om		Worl Date	k Order: Logged:	1511B03 11/25/2015			
		WaterTrax	WriteOn	EDF	Excel	□Fa	x 🖌 Email	HardC	opy ThirdPart	y 🗍 J	-flag				
Lab ID	Client ID	Matrix	Test Name		Con /Cor	tainers B nposites	ottle & Preservativ	e De- chlorinated	Collection Date & Time	ТАТ	Sediment Content	Hold SubOut			
1511B03-001A	NNN-3'	Soil	SW8015B (Die SW8021B/801:	sel) 5Bm (G/MBTI	EX)	1 St	ainless Steel tube 2"x6	"	11/25/2015 11:00	3 days 3 days					

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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Web	site: www.mco	campbell.	com Ema	ail: ma	ı ain@n	ıccar	nnbe	ll.co	m									_					F	US	H	24	HR		48 I	IR	(7	2 HI	5 DAY
Telephor	ne: (925) 252	-9262			F	ax: (	925)	25	2-92	69		D.		EI	DF F	Requ	uire	d? (	Coel	t (N	lorn	1al)	N	0	W	rite	On	(D'	W)	N	0		
Report To: Bob C	Clark Riddel	1	E	Bill To	o: Pa	ngea													A	nal	ysis	Rec	ues	t						0	Othe	r	Comments
Company: Pange	a Environmo	ental Ser	vices, In	c.											X																		
1710 Franklin Street, Suite 200, Oakland, CA 94612						_	ЗE	dn	(F)																	Filter							
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Tele: (510) 435-80	664	,	F	'ax: (	510)	836-3	3709	-	11	11		_	_	015)	- Ter	E&	(418									/ 0/							analysis:
Project #: 1150.	,001.935		P	rojec	t Nan	ne:	12	30	14	74			_	+ 8	en (	5520	ons		)20)		X					/ 82	6	_					Yes / No
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	VOAS O&G METALS OTHER PRESERVATION pH<2																																



#### Sample Receipt Checklist

Client Name: Project Name: WorkOrder №: Carrier:	Pangea Environmental Svcs., Inc.1150.001.425; 1230 14th1511B03Matrix: SoilBernie Cummins (MAI Courier)			Date and Time Received: Date Logged: Received by: Logged by:	11/25/2015 16:20 11/25/2015 Agustina Venegas Agustina Venegas
	Chain of C	ustody	/ (COC) Ir	nformation	
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	d 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	e Rece	eipt Inforr	nation	
Custody seals int	act on shipping container/cooler?	Yes		No	NA 🔽
Shipping containe	er/cooler in good condition?	Yes	✓	No 🗌	
Samples in prope	er containers/bottles?	Yes	✓	No 🗌	
Sample container	rs intact?	Yes	✓	No 🗌	
Sufficient sample	volume for indicated test?	Yes	✓	No 🗌	
	Sample Preservation	on and	Hold Tim	ne (HT) Information	
All samples recei	ved within holding time?	Yes	✓	No 🗌	
Sample/Temp Bla	ank temperature		Temp:	3°C	
Water - VOA vial	s have zero headspace / no bubbles?	Yes		No 🗌	NA 🗹
Sample labels ch	ecked for correct preservation?	Yes	✓	No 🗌	
pH acceptable up	oon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes		No 🗌	NA 🗹
Samples Receive	ed on Ice?	Yes	✓	No 🗌	
	(Ісе Турє	: WE	TICE )		
UCMR3 Samples Total Chlorine t	x: ested and acceptable upon receipt for EPA 522?	Yes		No 🗌	NA 🖌
Free Chlorine to 300.1, 537, 539	ested and acceptable upon receipt for EPA 218.7, ??	Yes		No 🗌	NA 🗹

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

Comments:

\_\_\_\_

# **APPENDIX F**

Waste Disposal Manifests

# PANGEA

Soil Disposal Summary - Former Shell-branded Service Station, 1230 14th St., Oakland, California

Belshire Report	Dates	Tons	Facility	
#1	November 18 - 23	461.45	Recology Hay Road Landfill, Vacaville	
#2	November 21 - 25	133.82	Recology Hay Road Landfill, Vacaville	
#3	November 23 - 25	89.30	Recology Hay Road Landfill, Vacaville	
	<b>Total Tons:</b>	684.57		



# **Belshire Environmental Tonnage Report**

Site Information	Disposal Facility
Shell/Sabek, Inc. 1230 14th Street Oakland, CA 94607	Recology Hay Rd. Landfill 6426 Hay Rd Vacaville, CA 95687
EPA ID:	EPA ID:

#### Shipment Description

Non-Hazardous Soil

Profile #: J6596

Shipment Date	Manifest No	Ticket No	Load	Cleanup Tons
11/18/2015	720260	1489935	1	21.67
11/18/2015	720261	1489899	2	24.89
11/18/2015	720263	1489827	3	27.61
11/18/2015	720262	1489864	4	28.69
11/18/2015	720234	1490029	5	26.17
11/18/2015	720259	1490014	6	29.55
11/18/2015	720258	1490086	7	17.11
11/18/2015	720257	1490116	8	23.06
11/19/2015	720249	1490307	9	27.15
11/19/2015	720250	1490319	10	26.24
11/19/2015	720251	1490262	11	23.52
11/19/2015	720252	1490249	12	24.53
11/19/2015	720253	1490247	13	23.13
11/19/2015	720254	1490237	14	28.48
11/19/2015	720255	1490191	15	25.76
11/19/2015	720256	1490198	16	29.70
11/23/2015	720237	1491736	17	27.67
11/23/2015	720239	1491525	18	26.52
	Project Tonn	age Total		461.45

# NO. 720260

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# NON-HAZARDOUS WASTE DATA FORM

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		1		260091	
	Generator's Name and Malling Address	·**	Generator's Site Address (	if different than mailing address)	<u> </u>
	ANDY SABERI / EQUILON ENTERPRISES, LLC		SHELL/SABEK,	INC.	
	SUITE 12		1230 14TH STR	EET	
	SOUTH SAN FRANCISCO, CA 94080	` <b>~</b>	OAKLAND, CA	94607	
		x			
	510-838-3709	· ·		<i>,</i>	
	Container type removed from site:	<b>[</b>	Container type trans	sported to receiving facility:	· · · · · · · · · · · · · · · · · · ·
· .		₩			XX
	Drums L Vacuum Iruck L Holl-off Iruck '	Dump Iruck	La Drums La Va		All Dump Truck
Ē	Quantity	*	Quantity 1	Volume 8 YC	IS .
0					
2					AVATION
Ē	WASTE DESCRIPTION		GENERATING PROCES	SS	
GENE	COMPONENTS OF WASTE F	PM %	COMPO	DNENTS OF WASTE	PPM %
	BOIL	98-100%	3		
					-
,	2TPH	<1%	4		
19	Waste Protile	PROPERTIES: pH		IQUID 🖵 SLUDGE 🖵 SLURRY	OTHER
	HANDLING INSTRUCTIONS: WEAR ALL APPROPRI	ATE PERSONA	L PROTECTIVE	CLOTHING.	jór.
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	Generator Printed/Tuned Name	Signature 1	- <u>`</u> N	<u> </u>	Month Day Year
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LS L	Transporter 2 Company Name	· · · ·		Phone#	
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Ê	Transporter 2 Printed/Typed Name	Signature			Month Day Year
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	Transporter Acknowledgment of Receipt of Materials			<u> </u>	
≥	RECOLOGY HAY RD. LANDFILL			Phone# 707-678-4718	•
Υ	6426 HAY RD		. •		
9	VACAVILLE, CA 95687	, 12 12			
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王 王	Printed/Typed Name	Signature			Month Day Year
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L	Designated Facility Owner or Operator: Certification of receipt of materials	covered by this data form.	·	· · · · · ·	
		in many	<b>بھ</b> ر 2		**
		The of althe	a tra dilla a successione		

RECOLOGY HAY ROAD Ticket: 1489935 6426 Hay Road Vacaville, CA 95687 Date: 11/18/2015 Phone: (707)-678-4718 Time:11:47:00 - 12:08:24 INFOUND Truck: 10933 Customer: 53084/BELSHIRE ENVIRONMENTS Gross: 73960 LBS Scale Origin: OAK/Oakland Tare: 30620 LES Scale Net: 43340 LBS Profile: 6598/Belshire Env.Serv/Andy 8 Scale: H2 7 11-11 Materials & Services Quant Race Amount SOILV/VOC Soil 21.67 TONS -- , Terri Wilson Signature MMSTRALO 9/09 . Printed on recycled paper

# **NO.** 720261

# NON-HAZARDOUS WASTE DATA FORM

		8ESI # 260001		
<b>[</b>	Generatore Name and Mailing Address	Consisterio Sel Addino II difficient fina mallina addinasi		
	ANDY SABERI / EQUILON ENTERPRISES, LLC			
3	1045 AIRPORT ELVD.	1230 14TH STREET		
22 72	SUITE 12 SOUTH SAN FRANCISCO, CA. 94080	OAKLAND, CA 94607		
	and the new resident particular the second			
	Generator's Phone: 010-030-3700	Contrainer two transported to recolute facility		
- 14%) - 14%)	Sourgene Abeleitoved nom site.	contrainer type transported to receiving facility;		
	Drums D Vacuum Truck D Roll-off Truck Dump Truck	Drums D Vacuum Truck D Roll-off Truck 🕅 Dump Truck		
	Other	Other		
E ال	Quantity1	Quantity 1 Volume 8 105		
			-	
ERA	WASTE DESCRIPTION NON-HAZARDOUS SOIL	GENERATING PROCESS REMEDIAL EXCAVATION	CAVATION	
	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE PPM %	5	
ଫି	SOIL 99-100%	· .		
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			<u></u>	
	Waste Profile PROPERTIES: pH			
- <b>1</b>	HANDLING INSTELLICTIONS WEAR ALL APPROPRIATE PERSONA	LIPROTECTIVE CLOTHING.		
			—	
	Generator Printer/Tursed Name		10 · ·	
			Year	
· .	(arlos Chinehillas (1)		(0)	
·	Transporter 1 Company Name	Dia no 24		
	Balduras Transportaction	Phone#		
	Transporter 1 Printed/Typed Name Signature	Month Dav	Year	
ВТ	Michael Roldenas		15	
Õ	Transporter Acknowledgment of Receipt of Materials			
LS L	Transporter 2 Company Name	Phone#		
			*. 85-,-	
Ē	Transporter 2 Printed/Typed Name Signature	Month Day	Year	
	Transporter Acknowledgment of Receipt of Materials			
∣≿	RECOLOGY HAY RD. LANDFILL	707-678-4718		
	6426 HAY RD	,		
₽	VACAVILLE, CA 95687	,		
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H	Printed/ lyped Name Signature	Month Dev	Year	
μ	INT LEAT		<u> </u>	
	Upersignation raceinty owner or operator: Certification of receipt of materials covered by this data form.			
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# NO. 720263

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# NON-HAZARDOUS WASTE DATA FORM

	an a		······································	60091	
	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT ELVD. SUITE 12	- ·	Generator's Site Address (If different than SHELL/SABEK, INC. 1230 14TH STREET	malling address)	
	SOUTH SAN FRANCISCO, CA 94080		OAKLAND, CA 94607		
	Generator's Phone: 510-938-3709				·
	Container type removed from site:		Container type transported to r	eceiving facility:	÷
الدين 1 - المراجع 1 - المراجع	🗅 Drums 🔲 Vacuum Truck 🛛 Roll-off Truck	Dump Truck	Drums Di Vacuum Truck	Roll-off Truck	ump Truck
. :	Other		Q Other		
Б	Quantity 1		Quantity 1	Volume 18 YDS	• • .
<b>FRAT</b>	WASTE DESCRIPTION NON-HAZARDOUS	SOIL	GENERATING PROCESS		
Ë	COMPONENTS OF WASTE	PPM %	COMPONENTS OF W	ISTE PPM	*
IJ	soll		3		
	2	<1%	4		
	Waste Profile 4#6596	_ PROPERTIES: pH	🖾 соце 📮 цачер 📮 :	LUDGE 🖸 SLURRY 📮 OTH	ER
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	Generator Printed/Typed Name	Signature	$\Lambda \wedge /$	Mo	nth Day
4				· · · · · · · · · · · · · · · · · · ·	&  7
· .	The Generator certifies that the waste as described is 100% non-hazardo	ous	$\forall$		
	Transporter 1 Company Name HERMANDAL TWCK	NG		none# 209-604-52	2576
RTER	Transporter 1 Company Name HERMAN ASL Two CK Transporter 1 Printed/Typed Name HERMAN ASL Two CK Transporter 1 Printed/Typed Name	NG Signature	T ll P	none# 209-604-52 Mo	2556 nth Day 1   1841
SPORTER	Transporter 1 Printed/Typed Name HERMAN AM Twck's Transporter 1 Printed/Typed Name HERMAN AM Twck's Transporter 1 Printed/Typed Name HERMAN AM Twck's Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name	NG Signature	Inf	209-604-52 Mo 1	25 <u>6</u> nth Day 1   187
ANSPORTER	Transporter 1 Printed/Typed Name HERMAN AM TWCK Transporter 1 Printed/Typed Name HERMAN AM TWCK Transporter 1 Printed/Typed Name HERMAN Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name	NG Signature	I I I I I I I I I I I I I I I I I I I	209-604-52 Mo 11	25 <u>6</u> nth Day 1   ///
TRANSPORTER	CUV10S       ('A in CALLAS         The Generator certifies that the waste as described is 100% non-hazardo         Transporter 1 Company Name         HERMANAL         Transporter 1 Printed/Typed Name         Transporter 2 Printed/Typed Name	Signature Signature Signature	I I I I I I I I I I I I I I I I I I I	209-604-52 Mo 11 Phone#	256 nth Day 1 1 / Art /
TRANSPORTER	CUV10S       ('A. in CALLAS         The Generator certifies that the waste as described is 100% non-hazards         Transporter 1 Company Name         HERMANAL         Transporter 1 Printed/Typed Name         Transporter 2 Company Name         Transporter 2 Printed/Typed Name         Transporter 2 Printed/Typed Name         Transporter 3 Printed/Typed Name         Transporter 4 Company Name	Signature Signature Signature	I Zhof	none# 209-604-52 Mo 1 ?hoñe# Mo	256 nth Day 1   / 61 nth Day
TY TRANSPORTER	CUV10S       ('A. M CALLAS         The Generator certifies that the waste as described is 100% non-hazards         Transporter 1 Company Name         HERMANNAL         Transporter 1 Printed/Typed Name         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Printed/Typed Name         Transporter 3 Printed/Typed Name         Transporter 4 Company Name         Transporter 5 Printed/Typed Name         Transporter 7 Company Name         Transporter 7 Printed/Typed Name	Signature Signature Signature	I I	Phone# _07-604-52 Mo _1 Phone# Phone# Phone# 707-678-4718	256 nth Day 1   / / / /
CILITY TRANSPORTER	CUVIOS ('Ann CALLAS         The Generator certifies that the waste as described is 100% non-hazards         Transporter 1 Company Name         HERMANA TWCK         Transporter 1 Printed/Typed Name         HERMAN ALL TWCK         Transporter 1 Printed/Typed Name         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Printed/Typed Name         Transporter 3 Printed/Typed Name         Transporter 4 Printed/Typed Name         Transporter 5 Printed/Typed Name         Transporter 6 Printed/Typed Name         Transporter 7 Printed/Typed Name         Transporter 8 Printed/Typed Name         The 9 Printed/Typed Name         Transporter 8 Printed/Typed Name	Signature Signature	I I I	207-678-4718	256 nth Day 1   187 nth Day
FACILITY TRANSPORTER	CUVIOS ('Ann Chillas         The Generator certifies that the waste as described is 100% non-hazards         Transporter 1 Company Name         HERMANN AM         Transporter 1 Company Name         HERMANN AM         Transporter 1 Printed/Typed Name         Transporter Acknowledgment of Receipt of Materials         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Printed/Typed Name         Transporter 3 Printed/Typed Name         Transporter 4 Printed/Typed Name         Transporter 5 Printed/Typed Name         Transporter 4 Printed/Typed Name         Transporter 4 Printed/Typed Name         Transporter 5 Printed/Typed Name         Transporter 4 Printed/Typed Name         Transporter 5 Printed/Typed Name         Transporter 6 Printed/Typed Name         Transporter 7 Printed/Typed Name         Transporter 7 Printed/Typed Name         Transporter 8 Printed/Typed Name         Transporter 8 Printed/Typed Name         Transporter 9 Printed/Typed Name         Designated Facility Name and Site	Signature Signature	I Z	207-678-4718	2 5 6 nth Day 1   1 4 1
NG FACILITY TRANSPORTER	CUVIOS ('AIMCALLAS         The Generator certifies that the waste as described is 100% non-hazards         Transporter 1 Company Name         HERMANNAL         Transporter 1 Company Name         HERMANNAL         Transporter 1 Printed/Typed Name         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Printed/Typed Name         Transporter Acknowledgment of Receipt of Materials         Transporter Acknowledgment of Receipt of Materials         Designated Facility Name and Site Address         RECOLOGY HAY RD         VACAVILLE, CA 95687	Signature Signature Signature	I Z	209-604-52 Mo Phone# Mo Phone# 707-678-4718	256 nth Day 1177 nth Day
EIVING FACILITY TRANSPORTER	CUVIOS ('AIMCAILIAS The Generator certifies that the waste as described is 100% non-hazardo Transporter 1 Company Name HERMANAM TWCK' Transporter 1 Printed/Typed Name Transporter 2 Company Name Transporter 2 Company Name Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address RECOLOGY HAY RD. LANDFILL 6428 HAY RD VACAVILLE, CA 95687	Signature Signature Signature	I Z	209-604-52 Mo 1 Phoñe# Mo Phoné# 707-678-4718	256 nth Day 1 / / / /
ECEIVING FACILITY TRANSPORTER	CUVIOS ('AIMCAILIAS         The Generator certifies that the waste as described is 100% non-hazards         Transporter 1 Company Name         HERMANAL         Transporter 1 Company Name         HERMANAL         Transporter 1 Printed/Typed Name         Transporter 2 Printed/Typed Name         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Printed/Typed Name         Printed/Typed Name         Action 1 Designated Facility Name and Site Address         RECOLOGY HAY RD. LANDFILL         6426 HAY RD         VACAVILLE, CA 95687         Printed/Typed Name	Signature Signature Signature Signature		Phone# Mo  Phone#  Phone#  Phone#  Phone#  Phone #  Mo  Phone #  Mo  Phone #  Phone #  Mo  Phone #  Phone # Phone # Phon	nth Day

RECOLOGY HAY ROAD Ticket: 1489827 6426 Hay Road Vacaville,/CA 95687 Phone: (707)-678-4718 Date: 11/10/2015 Time:09:54:05 - 09:54:10 INDOUND Truck: 8165 Customer: 53884/BELSHIRE ENVIRONMENTLicense: UP07171 Gross: 87780 LBS Scale Origin: OAK/Oakland 32560 LB3 Tare: FreTar Net: Profile: 6596/Belshire Env.Serv/Andy S 55220 LBS Scale: H1 Materials & Services Quantity Amount Rate SOILV/VOC Soil 27.61 TONS Marion Allen Signature 'MSTR4-LO 9/09 6 Printed on recycled paper
	•			BESI # 260091	28 YET -
	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12 SOUTH SAN FRANCISCO, CA 94080		Generator's Site SHELL/SA 1230 14TH OAKLAND	Address (if different than mailing address) BEK, INC. I STREET 9, CA 94607	
	540 928 9700	1			
	Container type removed from site:	•	Container ty	pe transported to receiving facil	ity;
	Drums D Vacuum Truck D Roll-off Truck	Dump Truck	🛛 Drams	🗘 Vacuum Truck 🛛 📮 Roll-off	Truck Truck
	Other	4 N.	D Othër	·	
ř	Quañtity1	ъ.	Quantity	Volume 18	5 YDS
ЧЧ ЧЧ	NON-HAZARDOUS S	OIL			EXCAVATION
Ц Z	COMPONENTS OF WASTE PPN	1 %	ا المركز الدولية المركز ومناقرة المركزة	COMPONENTS OF WASTE	PPM %
5	T	99-100%	<b>3</b>		
	E TPH	≪1%	4.		٠ <b>٠</b>
	Marta Profile				
			AL PROTEC	TIVE CLOTHING.	<u></u>
	Generator Printed/Typed Name	Signature			Month Day
	Generator Printed/Typed Name CUV 05 CLUCC LCS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name			FIVE CLOTHING.	Month Day
- - 	Generator Printed/Typed Name CUV OS CLINCWILLS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name MG T 2014 2014 2014 2014 2014	Signature		FIVE CLOTHING.	Month Day 111181 7037013
ORIER	Generator Printed/Typed Name <u>Cuv</u> <u>OS</u> <u>Curchilus</u> The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name <u>MG</u> <u>T</u> <u>PUV</u> <u>KIWG</u> Transporter 1 Printed/Typed Name <u>ARTUZC</u> <u>B</u>	Signature Signature Signature		FIVE CLOTHING.	Month Day 11118 7037013 Month Day 11118
NSPORTER	Generator Printed/Typed Name CUV OS CUNCEILS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name MG T TUKING Transporter 1 Printed/Typed Name ARTUZ D Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name	Signature Signature		Phone#	Month Day 11118 7037013 Month Day 11118
RANSPORTER	Generator Printed/Typed Name CUV OS CUNCEILS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name Transporter 1 Printed/Typed Name Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name Transporter 2 Printed/Typed Name	Signature Signature Signature		Phone#	Month Day 11118 1118 1 1118 1 1118 1 1118 1 1118 1 1118 1 1118 1
TRANSPORTER	Generator Printed/Typed Name <u>CUV</u> OS <u>(KINCK)</u> The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name <u>Transporter 1 Company Name</u> <u>Transporter 1 Printed/Typed Name</u> <u>Transporter 2 Company Name</u> <u>Transporter 2 Printed/Typed Name</u>	Signature Signature Signature Signature		Phone#	Month Day 111181 7037013 Month Day 111181
TRANSPORTER	Generator Printed/Typed Name <u>CUV</u> OSCHACKINCKILLS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name <u>MG</u> T2UKING Transporter 1 Printed/Typed Name <u>Transporter 2 Company Name</u> Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name	Signature Signature Signature Signature		Phone#	Month Day 11118 1 7037013 Month Day 111181
LIY TRANSPORTER	Generator Printed/Typed Name CUV OS CUNCELLS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name MG T 20 KING Transporter 1 Company Name Transporter 1 Printed/Typed Name Transporter 2 Company Name Transporter 2 Company Name Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name	Signature Signature Signature Signature		Phone# Phone# Phone# Phone# 707-678-4	Month Day 11118 1 7037013 Month Day 111181 Month Day
AGILITY TRANSPORTER	Generator Printed/Typed Name         Cuv       OS         MG       Tuv	Signature Signature Signature		Phone# Phone# Phone# Phone# 707-678-4	Month Day 11118 7037013 Month Day 111181 Month Day
G-FAGIELLY IRANSPORTER	Generator Printed/Typed Name         Cuv       OS         The Generator certifies that the waste as described is 100% non-hazardous         Transporter 1 Company Name         MG       Truck I MG         Transporter 1 Printed/Typed Name         MG       TRUCK I MG         Transporter 1 Printed/Typed Name         MG       TRUCK I MG         Transporter 1 Printed/Typed Name         Transporter 2 Printed/Typed Name         Transporter 2 Company Name         Transporter 2 Printed/Typed Name         VACAVILLE, CA 95687	Signature Signature Signature		Phone# Phone# Phone# Phone# 707-678-4	Month Day 11118 7037013 Month Day 11118
VING FACILITY TRANSPORTER	Generator Printed/Typed Name CUV OS ALINCHILLS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name MG TYUKING Transporter 1 Printed/Typed Name MTCVC B Transporter 2 Company Name Transporter 2 Company Name Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address RECOLOGY HAY RD, LANDFILL 6428 HAY RD VACAVILLE, CA 95687	Signature Signature Signature		Phone# Phone# Phone# Phone# 707-878-4	Month Day 11118 7037013 Month Day 111081 Month Day



			BES  #	60091		
	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12 SOUTH SAN FRANCISCO, CA 94080	Generator's Site A SHELL/SA 1230 14TH OAKLAND	ddress (if different than BEK, INC. STREET CA 94607	malling address)		
	Generator's Phone: 510-836-3709 Container type removed from site:	Container typ	e transported to r	eceiving facility:	<u>.</u>	
	Drums Divacuum Truck Di Roll-off Truck 🕅 Dump Truck	Drums	Vacuum Truck	D Roll-off Truck	私 Dump	Tru
	Other	Other		<u> </u>		
OR	Quantity	Quantity 1		Volume 17	yrds	
ERAT	WASTE DESCRIPTION NON-HAZARDOUS SOIL	GENERATING F	ROCESS	REMEDIAL EXC	CAVATION	
GENE	COMPONENTS OF WASTE PPM % SOIL 98-100%	6 3	COMPONENTS OF W	ASTE	РРМ	-
а. З.	TPH <1%	6			1. 1. 1. 1.	
y.	<u>Kaston</u>	·····			·	-
art⊁ia ,	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSON	JAL PROTECT		Siunge 🖵 Siurry IG:		
	Waste Provide     PROPERTIES: pH       HANDLING INSTRUCTIONS:     WEAR ALL APPROPRIATE PERSON       Generator Printed/Typed Name     6/1       Behalt     0       Generator Printed/Typed Name     6/1       Signature     5       Generator continues     6/1       The Generator continues that the waste as described is 100% non-hazardous     6/1			SUDGE 🖵 SLURRY	Month	Da
	Waste Provide       PROPERTIES: pH         HANDLING INSTRUCTIONS:       WEAR ALL APPROPRIATE PERSON         Generator Printed/Typed Name       64, Behaltor         Generator certifies that the waste as described is 100% non-hazardous       1         Transporter 1 Company Name       1         WGD       TVL/CKIALG			Phone#		
DRIER	Waste Provide       PROPERTIES: pH         HANDLING INSTRUCTIONS:       WEAR ALL APPROPRIATE PERSON         Generator Printed/Typed Name       64       8 + 1 + 5       0 + 5       Signature         Generator Printed/Typed Name       64       8 + 1 + 5       0 + 5       Signature         The Generator certifies that the waste as described is 100% non-hazardous       11         Transporter 1 Company Name       FRUCHING         Transporter 1 Printed/Typed Name       Signature         AD_TURE       Signature			IG: Phone# (SC) 7-0	Month (1) (3) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
<b>ISPORTER</b>	Waste Proule       PROPERTIES: pH         HANDLING INSTRUCTIONS:       WEAR ALL APPROPRIATE PERSON         Generator Printed/Typed Name       64       8 ± h = 15       0 f       Signature         Generator Printed/Typed Name       64       8 ± h = 15       0 f       Signature         Generator Printed/Typed Name       64       8 ± h = 15       0 f       Signature         The Generator certifies that the waste as described is 100% non-hazardous       11         Transporter 1 Company Name       FULCHANG       11         Transporter 1 Printed/Typed Name       Signature       11         Transporter 1 Company Name       Signature       11         Transporter 2 Company Name       11       11       11       11	JAL PROTECT		Phone#		
<b>IRANSPORTER</b>	Waste Prome       PROPERTIES: pH         HANDLING INSTRUCTIONS:       WEAR ALL APPROPRIATE PERSON         Generator Printed/Typed Name       64, Behalfor         Generator Centifies that the waste as described is 100% non-hazardous       1         Transporter 1 Printed/Typed Name       Signature         ADDEC PROPERTIES       Signature         Transporter 1 Printed/Typed Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature			Phone# Phone#	Month	
TRANSPORTER	Waste Provide       PROPERTIES: pH.         HANDLING INSTRUCTIONS:       WEAR ALL APPROPRIATE PERSON         Generator Printed/Typed Name       64       8 ± h = 15       0 f       Signature         Generator Printed/Typed Name       64       8 ± h = 15       0 f       Signature         Generator Printed/Typed Name       64       8 ± h = 15       0 f       Signature         The Generator centifies that the waste as described is 100% non-hazardous       17         Transporter 1 Company Name       100% non-hazardous       17         Transporter 1 Printed/Typed Name       Signature       16         Transporter 1 Printed/Typed Name       Signature       16         Transporter 2 Company Name       Signature       17         Transporter 2 Company Name       Signature       17         Transporter 2 Printed/Typed Name       Signature       16         Transporter 2 Printed/Typed Name       Signature       17			Phone#	Month Month 370 Month U U	
ILITY TRANSPORTER	Waste Provide       PROPERTIES: pH.         HANDLING INSTRUCTIONS:       WEAR ALL APPROPRIATE PERSON         Generator Printed/Typed Name       64, Behalfor       Signature         Generator Printed/Typed Name       64, Behalfor       Signature         The Generator centifies that the waste as described is 100% non-hazardous       1         Transporter 1 Company Name       Signature         MG       Truck       Signature         Transporter 1 Printed/Typed Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter Acknowledgment of Receipt of Materials       Signature         Designated Pacility Name and Site Address       RECOLOGY HAY RD         Cology HAY RD       LANDFILL			Studge         Studge           IG:	Month	
IG FACILITY TRANSPORTER	Waste Prove Interview       PROPERTIES: pH.         HANDLING INSTRUCTIONS:       WEAR ALL APPROPRIATE PERSON         Generator Printed/Typed Name       04       8e halfs       05       Signature         Generator Printed/Typed Name       04       8e halfs       05       Signature         Generator Printed/Typed Name       04       8e halfs       05       Signature         The Generator centifies that the waste as described is 100% non-hazardous       Transporter 1 Company Name       Signature         Transporter 1 Printed/Typed Name       Signature       Signature         Transporter 2 Company Name       Signature       Signature         Transporter 2 Printed/Typed Name       Signature       Signature         Designated Facility Name and Site Address       RECOLOGY HAY RD       LANDFILL         6426 HAY RD       VACAVILLE, CA 95687 <td></td> <td></td> <td>Studge         Studge           IG:        </td> <td>Month (// / / Month (// / Month</td> <td></td>			Studge         Studge           IG:	Month (// / / Month (// / Month	
IVING FACILITY TRANSPORTER	Waste Prove Integration Properties: pH.         HANDLING INSTRUCTIONS:       WEAR ALL APPROPRIATE PERSON         Generator Printed/Typed Name       64 Behalfsof       Signature         Generator Printed/Typed Name       64 Behalfsof       Signature         The Generator certifies that the Waste as described is 100% non-hazardous       Transporter 1 Company Name       Signature         Transporter 1 Company Name       Signature       Signature         Transporter 1 Company Name       Signature         Transporter 1 Company Name       Signature         Transporter 2 Company Name       Signature         Designated Pacifity Name and Site Address       Signature         VACAVILLE, CA 95687       VACAVILLE, CA 95687	JAL PROTECT		Studge         Studge         Studge           IG:		

RECOLOGY HAY ROAD Ticket: 1490029 6426 Hay Road Vacaville, CA 95687 Date: 11/18/2015 Phone: (707)-878-4718 Time: 14:15:15 - 14:15:27 INDOWND Truck: 10932 Customer: S3884/BELSHIRE ENVIRONMENTS Gross: 84400 LBS Brale Origin: OAK/Oakland Tare: 32060 LBS FreTar 52340 LBS 9 m 14 Net: Profile: S596/Belshire Env.Serv/Andy 3 Scale: Hl Materials & Services Quantity Amount Rate SOILV/VOC Sail 26.17 TONS Marion Allen WMSTR4-LO 9/09 C Printed on recycled paper 51150

NO.	7202	59
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## NON-HAZARDOUS WASTE DATA FORM

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		<u> </u>
<b>*</b>	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12 SOUTH SAN FRANCISCO, CA 94080	Generator's Site Address (if different than mailing address) SHELL/SABEK, INC. 1230 14TH STREET OAKLAND, CA 94607
	000000 510-838-2700	
	Container type removed from site:	Container type transported to receiving facility:
	Drums Diversum Truck Die Roll-off Truck X Dump Truck	Drums D Vacuum Truck D Roll-off Truck
	D Other	Other
ОR	Quantity 1	Quantity 1 Volume 18 Y D S
ERAT	WASTE DESCRIPTION NON-HAZARDOUS SOIL	GENERATING PROCESS
INE	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE PPM %
GE	1 <u>\$99-100</u> %	3
	<u>ع</u>	4
	Waste Profile	
اری میں اندر	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONA	AL PROTECTIVE CLOTHING.
	ta International de la construction de La construction de la construction d	i na nagina ang na gamanang kananang kanang kana T
£ .	Generator Printed/Typed Name	Month Day Year I U I (X IZC) (K
	The Generator certifies that the waste as described is 100% non-hazardous	
н Н	Transporter & Company Name HENNANDEL TRUCKING	Phone# 209-604-5255
RTE	Transporter 1 Printed/Typed Name Utop Transporter 1 Signature Utop Transporter 1 Signature	Month Day Year
SPC	Transporter Acknowledgment of Receipt of Materials	Bhons#
AN		
TR	Transporter 2 Printed/Typed Name Signature	Month Day Year
- ·	Transporter Acknowledgment of Receipt of Materials	
X		Phone#
	6426 HAY RD	107-878-4718
AC	VACAVILLE, CA 85687	$\backslash$
ц		
VIN		
RCEN	Printed/Typed Nama	Month Day Year
, <u>115</u> , 	Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form	
		× 

RECOLOGY HAY ROAD Ticket: 1490014 6426 Hay Road Vacawille, CA 95687 Date: 11/18/2015 Phone: (707)-678-4718 Time:13:37:59 - 14:00:19 INCOUND Truck: 0165 . Customer: 53854/BELSHIRE ENVIRONMENTLigense: UP07171 Gross: 90840 LB3 Scale Origin: OAK/Oakland ek es ja Tare: 31740 LB3 Scale Net: 59100 LBS Profile: 6596/Belshire Env.Serv/Andy S Scale: H2 Materials & Services Rate Amount Quantity 29.55 TONS SOILV/VOC Soil Terri Wilson Sidnature WMSTR4-LO 9/09. 🛟 Printed on recycled paper

NO. 720258

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# NON-HAZARDOUS WASTE DATA FORM

		26009 <b>1</b>	
	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12 SOUTH SAN FRANCISCO, CA 94080	Generalor's Bills Actress (If different this mailing address) SHELL/SABEK, INC. 1230 14TH STREET OAKLAND, CA 94807	
	dependions Phone: 510-836-3709	Container twoe transported to receiving facility	
	D Drums D Vacuum Truck D RoB-off Truck 🖄 Dump Truck	Drums: Di Vacuum Trück Di Röll-off Trück	Dump Track
	Other	Other	-
TOH	Quantitay 1	Quantity 1 Volume 18 10.	ک
ERA.	WASTE DESCRIPTION NON-HAZARDOUS SOIL	GENERATING PROCESS REMEDIAL EXCA	VATION
GEN	COMPONENTS OF WARTE PPM 3% SOIL SOIL SO-1009	COMPONENTS OF WASTE	PPM %
		6 <sub>4</sub>	
	Waste ProfilePROPERTIES: pH		
	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSON		Month Day Year
	The Generator contines that the weste as described is 100% non-hazardous		
ШШ	Transporter 1 Company Name Dalawas Transport Station Transporter 1 Printed/Typed Name NALCLINCAL PLALARS	Phone#	Month Day Year
SPOF	Transporter 2 Company Name		11 18 13
TRAN	Thereporter 2 Printed/Typed Name Signetium		Month Day Year
VING FACILITY	Transporter Acknowledgiment of Receptor Meterials Designated Facility Namo and Ste Address RECOLOGY HAY RD. LANDFILL 8428 HAY RD VACAVILLE, CA 95887	Phong# 707-878-4718	
RECEI	Printed/Typed Name Signature		Many des year
I		i i i i i i i i i i i i i i i i i i i	

RECOLOGY HAY ROAD Ticket: 1490086 6426 Hay Road Vacaville, CA 95607 Date: 11/10/2015 Phone: (707)-678-4718 Time:15:18:05 - 15:18:11 INGOUND Truck: 9484 Customer: \$3884/BELSHIRE ENVIRONMENTLicense: 9E17657 Gross: 73120 LBS Scale Origin: OAK/Oakland 28900 LBS Tare: PreTar Net: 34220 LBS Brofile: 6596/Belshire Env.Serv/Andy S Scale: Hl Materials & Services Quantity Rate Амоцят SOILV/VOC Soil 17\_11 TONS Marion Allen WMSTR4-LO 9/09 C Printed on recycled paper

NO. 720257

1997 - 1997 1997 -		<sup>BESI</sup> * 260091
	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12 SOUTH SAN FRANCISCO, CA 94080	Generator's She Address (If different than mailing address) SHELL/SABEK, INC. 1230 14TH STREET OAKLAND, CA 94607
	Generator's Phone: 510-635-3709	
	Container type removed from site:	Container type transported to receiving facility:
	Drums Q Vacuum Truck Q Roll-off Truck 20 Dump Truck	Drums D Vacuum Truck D Roll-off Truck , D Bump Truck
	Other	D Other
		28-10-
O B	Quantity	Quantity 1 Volume
RAI	NON-HAZARDOUS SOIL	REMEDIAL EXCAVATION
Ц Ш	COMPONENTS OF WASTE PPM '%	COMPONENTS OF WASTE PPM %
<u>ы</u>	, (SOIL ) 99-100%	
	2	
	Waste Profile 1#6596 PROPERTIES: pH	
	HANDING INSTRUCTIONS	L FROTECTIVE CLOTHING.
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	on behals of and y saler save appr	1-Minotti Illunk
	Generator Printed/Typed Name Sighature	Month Day Year
	The Generator certifies that the waste as described is 100% non-Mazardous.	
	Transportehi Duffiertik Name NGLIE 2 2 300	Phone#
£	A AR AR	
B.E	Inguistration of the second se	Month + Day O Year-
0 0	Transporter Acknowledgment of Receipt of Materials	
NNS	Transporter 2 Company Name	Rione≇:
TRV 2	Transporter 2: Printed/Typed Name Signature	Month Day Year
		× 1 1 1
<u> </u>	Iransporter Acknowlodgment of Heceipt of Materials Designated Facility, Name and Site Address	Phone#
	RECOLOGY HAY RD. LANDFILL 6426 HAY RD	707-878-4718
ACI	VACAVILLE, CA 95687	
ц Ц		
NIN		
E S	Printed/TypedNumeret Signature	Month Per Greet
Ē	Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.	$\mu \in \mathbb{R}^{2}$

RECOLOGY HAY ROAD Ticket: 1490116 6426 Hay Road Vacaville, CA 95667 Date: 11/18/2015 Phone: (707)-678-4718 Time:15:57:33 - 15:57:45 INBOUND Truck: 10933 Customer: 53884/BELSHIRE ENVIRONMENT Gross: 76740 LB3 Scale Origin: OAK/Oakland Tare: 30620 LBS PreTar Net: 46120 LBS Profile: 6596/Belshire Env. Serv/Andy 3 Scale: Hl Materials & Services Ouantitu Rate Amount 23.06 TONS SOILV/VOC SHIL Marion Allen WMSTR4-LO 9/09 C Printed on recycled paper



## NON-HAZARDOUS WASTE DATA FORM

				260091	·. ·
	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12	<u>.</u>	Generator's Site Address SHELL/SABEK, 1230 14TH STR	(If different than mailing address) INC. EET	
	SOUTH SAN FRANCISCO, CA 94080		OAKLAND, CA	<b>94607</b>	
	Generator's Phone: 510-836-3709 Container type removed from site:		Container type tran	sported to receiving facility:	
	Drums D Vacuum Truck D Roll-off Truck	Cump Truck	🖬 Drums 🛄 Va	acuum Truck 📮 Roll-off Truck	Cump Truck
	🖸 Qiher		G Other		
TOR	Quantity 1		Quaniity 1		<u>2 405</u>
ERA	WASTE DESCRIPTION NON-HAZARDOUS	SOIL	GENERATING PROCE		AVATION
EN	COMPONENTS OF WASTE PP	M %	COMP	ONENTS OF WASTE	PPM %
G	1	99-100%	3	· · · · · · · · · · · · · · · · · · ·	
	2	<1%	4	:	
	Waste Rrofile	ÊRORERTIES≫pH- <u>∽</u>	anasa 🖵 (solida) 🗐		
	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIA	TE PERSONA		CLOTHING.	
	Sage Arpel on behalf of An	d-Saber			
	Generatof/Printed/Typed Name	Signature	Men	X	Month Day Year
	The Generator certifies that the waste as described is 100% non-hazardous		a statement	Phone#	
	Tonal Brothers	Šlanature			Month Day Year
ORTE	Bordy Khon men		$\sim$		111915
NSP	Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name	······································		Phone#	
TRA	Transporter 2 Printed/Typed Name	Signature		<u>,</u>	Month Day Year
	Transporter Acknowledgment of Receipt of Materials				
	Designated Facility Name and Site Address RECOLOGY HAY RD. LANDFILL 8428 HAY RD			Phone# 707-878-4718	
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		Generator's Site Address (	if different than mailing address	3)
Generator's Name and Malillog Address		SHELL/SABEK.	INC.	
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SOUTH SAN FRANCISCO, CA 94080	· \			
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PECOLOGY HAY DOAD Ticket: 1490319 6426 Hay Road Vacaville, CA 95687 Date: 11/19/2015 Phone: (707)-670-4718 Pime:11:55:31 - 11:65:55 THENDRO Truck: 10506 Costomer: 53804/BELSHIRE ENVIRONMENT: Gross; 86160 LBS Scale Origin: OAK/Oakland Tare: 33580 688 Frellar Net: 52480 183 Scofile: 6896/Belshice Env. Serv/Andy 3 Scale: H1 Materials & Hervices ANOUSS: Quantity Rate 25.24 TONS BOILN/WOC Soil 81 Terri Wilson Signature /MSTR4-LO 9/09 🖏 Printed on recycled paper -----

# NON-HAZARDOUS WASTE DATA FORM

			260091
	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT ELVD. SUITE 12 SOUTH SAN FRANCISCO, CA \$4080	Generator's Site Address ( SHELL/SABEK, 1230 14TH STRI OAKLAND, CA	f different than mailing address) INC. EET 94607
	Génerator's Phone: 510-836-3709		
	Container type removed from site	Container type trans	sported to receiving facility:
	Other.	Other	
RATOR		Quantity 1	
GENE	COMPONENTS OF WASTE PPM % SOIL 09-100%	- GENERATING PHOCES COMPC	NENTS OF WASTE PPM %
د	<u>۲</u> PH <b>«1%</b>	4	
سرچاري .	Waste Profile	<b>SOLID</b> L	
	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSON ON behalf of suberi- Generator Printed/Typed Name Signature	HEROTECHIVE C	Month Day Year               ZOI:
	Transporter 1 Company Name		Phone#
NSPORTER	Transporter 1 Printed/Typed Name Signature Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name	12	407 558-0652 Month Day Year ////////////////////////////////////
TR/	Transporter 2 Printed/Typed Name Signature	· · · · · · · · · · · · · · · · · · ·	Month Day Year
IG FACILITY	Designated Facility Name and Site Address RECOLOGY HAY RD. LANDFILL 6426 HAY RD VACAVILLE, CA 95687		Phone# 707-678-4718
RECEIVIN	Printed/Typed Name Signature Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form	1.	Month Day Year
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RECOLOGY HAY ROAD Ticket: 1490262 5425 Hay Road Vacaville, CA 93587 Date: 11/19/2015 Phona: (707)-678-4718 Pine:10:34:37 - 10:34:47 THEORED Pruck: 7954 Customer: 53884/BELSHIRE ENVIRONMENTLicense: 166 Gross: 77420 LBS Scale. Origin: OAK/Oakland 20280 163 Tare: Frelar Ne e : 47640 1688 Profile: 6596/Belshire Env. Serv/Andy Scale: H2 Materials & Services. Quantity Rane Amount chife, SOILV/VOC Soil 23.52 TONS Marion Allea 5.ignatue# /MSTR1-LO 9/09 Derinted on recycled paper

NO. 720252

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AND Y SAPER / POULON ENTERPRISES, LC     SHELL/SAEEK, INC.       106 / MPCN FB/JC.     SHELL/SAEEK, INC.       103 / MPCN FB/JC.     SHELL/SAEEK, INC.       100 / MP	. Г	 	Generator's Name and Malling Address Generator's Sile Address	if different than mailing address)
Note product or total.       2020 Inth STREET         South Street Francisco, CA Suddo       OAKLAND, CA Suddo         South Street Francisco, CA Suddo       OAKLAND, CA Suddo         Construct France Stock France       OAKLAND, CA Suddo         Construct France Stock France       Construct Type Interactional to resolving functions         Construct France Stock France       Construct Type Interactional to resolving functions         Construct France       NON-HAZAREOUS SOIL       Construct France         Construct France       NON-HAZAREOUS SOIL       Construct			ANDY SABERI / EQUILON ENTERPRISES, LLC SHELL/SABEK,	INC.
BOLITH SAN PRANCISCO, CA SAGED     DARLAND, CA BEDIT       BOLITH SAN PRANCISCO, CA SAGED     Container type transported to reserving facility:       Container type transported to reserving facility:     Darna       Darna     Vacuum Track       Container type transported to reserving facility:       Darna     Vacuum Track       Container type transported to reserving facility:       Darna     Vacuum Track       Container type transported to reserving facility:       Darna     Vacuum Track       Container type transported to reserving facility:       Darna     Nonter Description       Nonter Description     NON-HAZARDOU'S SOIL       Container type transported to reserving facility:     Container transported to reserving facility:       Versite     SOIL     Soil Soil       SOIL     Soil Soil Soil Soil Soil Soil Soil Soil			1040 AIKPURT BLVD. (1230 14TH STR	EET
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Container type transported to receiving facility:  Container type transported to receive facility to receive transported to receive facility to receive transpo			Constantiation Bhones 510-838-3708	
Dogma     Dogma     Down	<u>.</u>	ç,	Container type removed from site: Container type tran	sported to receiving facility:
C Dona       Vector from       Non-HAZARDOUS SOIL       Cenerous in tool of vector from       Cenerous in tool of vector from         C Dona       Image: Image				
Other     Output			Drums U Vacuum Iruck U Roll-off Iruck U Dump Iruck U Drums U Vacuum	
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Waste Description       NON-HAZARDOUS SOIL       GENERATING PROCESS       REMEDIAL EXCAVATION         COMPONENTS OF WASTE       PM       COMPONENTS OF WASTE       PM         SOIL       B2-100%       DARCONNETS OF WASTE       PM         SOIL       B2-100%       PM       COMPONENTS OF WASTE       PM         SOIL       B2-100%       DARCONNETS OF WASTE       PM       COMPONENTS OF WASTE       PM         Wester Profile       WESTE DESCRIPTION       B2-100%       Discussed Discusses       Pointed       PM         Wester Profile       WESTE DESCRIPTION       B2-100%       Discusses Discusses       PM       Discusses       PM       Discusses       Discus		œ.	Quantity 1	
MARTE DESCRIPTION     NON-HAZARDOUS SOIL     DEMEMBERING PROCESS     REMEDIAL EXCAVATION       NAME DESCRIPTION     DOMPONENTS OF WASTE     PM       SOIL     B8-100%       TPH     PM       NUMERING OF WASTE     North Day       NUMERING OF WASTE     North Day       North Day     Segnature       North Participaet Comparison of description Name       North Participaet Name     Segnature       North Participaet Name     Segnature       North Participaet Name     North Participaet Name       North Participaet Name     Segnature       North Participaet Name     North Participaet Name       North Participaet Name     Segnature       North Participaet		Ō		
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An       Build F of Andy Sabci         Bonterator Printed(Tryped Name       Signature         The Generator Contilles that the waste as described is 100% non-hazardous       Printed         Transporter 1 Company Planie       Signature         Description (Tryped Name)       Signature         Transporter 1 Company Planie       Signature         Transporter 1 Printed(Tryped Name)       North         Transporter 1 Printed(Tryped Name)       Signature         Transporter 1 Printed(Tryped Name)       North         Transporter 2 Printed(Tryped Name)       North         Transporter 2 Printed(Tryped Name)       North         Transporter 2 Printed(Tryped Name)       Signature	, ,	n in t		
And JA Ot And JA Sabel 1         Generator Printed/Typed Name         The Generator contract the wasto as described is 100% non-hazardous         Transporter 1 Company Native         Decompany Native         Month Day Main         Phone#         Transporter 1 Company Native         Month Day Main         Month Day Main         Month Day Main         Transporter 1 Printed/Typed Name         Signature         Month Day Main         Transporter 1 Printed/Typed Name         Transporter 2 Dripted/Typed Name         Stgnature         Month Dev         Transporter 2 Dripted/Typed Name         Stgnature         Month Dev         Transporter 2 Dripted/Typed Name         Stgnature         Phone#         Transporter Advinowledgment of Receipt of Matorials         Phone#         The Colory HAY RD				
Ganistics Printed/Typed Name       Signature       Month       Day       Year         The Generativ contifies that the weate as desorthed is 100% non hazardous       Phone#       Phone#       Month       Day       Year         Transporter 1 Companys Name       Phone#       Month       Day       Year       Month       Day       Year         Transporter 1 Printed/Typed Name       Signature       Month       Day       Year         Transporter 2 Company Name\       //       Phone#       Phone#         Transporter 2 Company Name\       //       Phone#       Phone#         Transporter 2 Philtod/Typed Name       Signature       Month       Day       Year         Transporter Acknowledgment of Receipt of Malerials       Phone#       Phone#       Phone#       Phone#         Transporter Acknowledgment of Receipt of Malerials       Phone#       Phone#       Phone#       Phone#         Transporter Acknowledgment of Receipt of Malerials       Phone#       Phone# <td><math>r_{j}^{n}</math></td> <td></td> <td>on behalt of Andia Saberi</td> <td></td>	$r_{j}^{n}$		on behalt of Andia Saberi	
The Generator continue that the waste as desorbed is 100% non-hazardous Transporter 1 Company-Name DOM IOM GWL- & SO M Signature Phone# Transporter 1 Platted/Typed Name Transporter 2 Company Name Transporter 2 Company Name Transporter 2 Company Name Transporter 2 Phylical/Typed Name Signature Nonth Day Year Nonth Year Nonth Nonth Nonth Nonth Day Year Nonth N			Generator Printed/Typed Name Signature	Month Day Year
The Constation contilles that the wastie as described is 100% non-hazardouls         Transporter 1 Company Name         Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of receipt of materials covered by this data form: The Constation of the Constant of the Constend of the Constant of the Constant of the Constant of	•	•		
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Hitrisporter 1 Printed/Typed Name       Signature       Month       Day       Year         Hitrisporter A Next Company Name       Month       Phone#       Phone#       Phone#         Transporter 2 Originated Facility Owner of Decelpt of Materials       7/       Phone#       Phone#         Transporter 2 Printed/Typed Name       Signature       Month       Day       Year         Transporter Acknowledgment of Receipt of Materials       Phone#       Transporter Acknowledgment of Receipt of Materials       Phone#         Designated Facility Name and Site Address       Phone#       Transporter Acknowledgment of Receipt of Materials       Month       Day       Year         UP       Designated Facility Owner or Operator: Certification of receipt of materials covered by this deals form?       Month       Day       Year         UP       Designated Facility Owner or Operator: Certification of receipt of materials covered by this deals form?       Year			Transporter 1 Company-Name	Phone#
Imagender L Printed/Typed Name       Signature         Transporter Acknowledgment of Receipt of Materials       ####################################		<b>m</b>	DOMINGULA 70 M	Manth Day Mart
Transporter Acknowledgment of Receipt of Materials     // Phone#       Transporter 2 Printed/Typed Name     Signature       Phone#     7D7-678-4718       Signature     Month       Designated Facility Owner or Operator: Cartification of receipt of materials covered by this data form.     Month		Щ.	Transporter 1 Printed/Typed Name Signature	Month Day real
Tansporter Acknowledgment of Receipt of Materials       //       Phone#         Transporter 2 Cripted/Typed Name       Signature       Month Day Year         Transporter 2 Prifited/Typed Name       Signature       Month Day Year         Transporter Acknowledgment of Receipt of Materials       Phone#         Transporter Acknowledgment of Receipt of Materials       Phone#         Transporter Acknowledgment of Receipt of Materials       Phone#         Designated Facility Name and Site Address       Phone#         RECOLOGY HAY RD       LANDFILL         8420 HAY RD       VACAVILLE, CA 95687         VACAVILLE, CA 95687       Signature         Month       /fav         Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.         Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.	ŀ	Ĕ	AMPIC KNAWITE TIM -2	(1-7 mg) 11113
Mainsporter 2 Confidency Name     Signature       Transporter 2 Pri/tied/Typed Name     Signature       Transporter Acknowledgment of Receipt of Materials       Designated Facility Name and Site Address       RECOLOGY HAY RD. LANDFHLL       8428 HAY RD       VACAVILLE, CA 95687       Printed/Typed Name       Bignature       Month       Jag       Printed/Typed Name       Bignature       Month       Jag       Designated Facility Owfor or Operator. Certification of receipt of materials covered by this deta form.	,	Ŭ,	Transporter Acknowledgment of Receipt of Materials	Phone#
Year     Month     Day     Year       Transporter 2 Prifited/Typed Name     Month     Day     Year       Transporter Acknowledgment of Receipt of Materials     Phone#       Designated Facility Name and Site Address     Phone#       RECOLOGY HAY RD. LANDFILL     6428 HAY RD       VACAVILLE, CA 95697     VACAVILLE, CA 95697		SZ 2		
Image: Transporter Acknowledgment of Receipt of Materials         Designated Facility Name and Site Address         RECOLOGY HAY RD. LANDFILL         S426 HAY RD         VACAVILLE, CA 95697         VACAVILLE, CA 95697         Month         Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form: The		R	Transporter 2 Prihted/Typed Name Stgnature	Month Day Year
Transporter Acknowledgment of Receipt of Materials         Designated Facility Name and Site Address         RECOLOGY HAY RD. LANDFILL         6428 HAY RD         VACAVILLE, CA 95687         VACAVILLE, CA 95687         Month         Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form?	·	┣━		
Pione# RECOLOGY HAY RD. LANDFILL 8428 HAY RD VACAVILLE, CA 95697 Printed/Typed Name Printed/Typed Name Month @ay _pear Month @ay _pear Month @ay _pear			Transporter Acknowledgment of Receipt of Materials	
RECOLOGY HAY RD. LANDFILL     707-678-4718       8426 HAY RD     VACAVILLE, CA 95697       VACAVILLE, CA 95697     Signature       Printed/Typed Name     Signature       Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form: 1	1	<u>.</u>	Designated Facility Name and Site Address	Phone#
B     S426 HAY RD       VACAVILLE, CA 95687       Printed/Typed Name       Printed/Typed Name       Signature       Month       Month       Max       Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form:			RECOLOGY HAY RD. LANDFILL	707-878-4718
YACAVILLE, CA 95697       Printed/Typed Name       Printed/Typed Name       Month       Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.			8428 HAY RD	34
Printed/Typed Name Printed/Typed Name Month / av / Pear Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form:		X	VACAVILLE, CA 95697	
Printed/Typed Name Printed/Typed Name Month /Pay /Bar Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form:		6		-
Printed/Typed Name  Month /Pay /Par  Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.		Ž		A. A.
Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form:		$\geq$	Printed/Tuped Name	Month <b>/ g</b> ay Xear
Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form:		ö	MALE TO A THE MALE	
		ШШ	Designated Eacility Owner or Operator: Cortilication of receipt of materials covered by this data form:	
	L	÷		

RECOLOGY MAY ROAD Ticket: 1490249 6425 May Road Vacaville, CA 95687 Date: 11/19/2015 Phone: (707)~678-4718 Time: 10:15:57 ~ 10:17:32 INBOUND Teuch: 10933 Customer: 50084/SELSHIRE ENVIRONMENT Gross: 79680 133 Scale Origin: OAE/Oakland 30620 133 TREESS FreTar Mests : 49050 588 Profile; 6595/Belshire Env.Bert/Bidy Ś Scale: H2 Manneials & Services Quantit Ĥate Amount SOIN/VOC Soil SO TONS - 14 Marion Allen MSTR4-LO 9/09

NO. 720253

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		BESI#	260091		
	Generator's Name and Malling Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12 SOUTH SAN FRANCISCO, CA 94080	Generator's Site Address (if different th SHELL/SABEK, INC. 1230 14TH STREET OAKLAND, CA 94607	an maliting address)	1	
	Generator's Phone: 610-836-3709				
GENERATOR	Container type removed from site:  Drums Vacuum Truck Roll-off Truck Dump Truck Other  Quantity 1 WASTE DESCRIPTION NON-HAZARDOUS SOIL COMPONENTS OF WASTE PPM SOIL TPH TPH Waste Profile W0590 PROPERTIE HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PEF ON bchalf Of And So	Container type transported to uck Drums Vacuum Truc Other Quantity 1 GENERATING PROCESS COMPONENTS OF 3. 41% 4. S: pH. S: pH. BROTECTIVE CLADTH DEXT	o réceiving facility: k  Roll-off Truck Volume REMEDIAL EXCAV WASTE I SLUDGE SURRY ING.		
	Generator Printed/Typed Name Sign				ay, 100
	Transporter LCompany Name APPLE GOLDEN APPLE		510 812-7440	5	, <u>, , , , , , , , , , , , , , , , , , </u>
RTEF	Transporter 1 Printed/Typed Name Sign Di 1599 SinSt	ature	·		9 11
NSPC	Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name		Phone#		 _
TRÅ	-it- Transporter 2 Printed/Typed Name Sign	ature	•	Month I	Day Yea
	Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address RECOLOGY HAY RD. LANDFILL 6426 HAY RD VACAVILLE, CA 85687	- <u>I:</u>	Phone# 707-678-4718		
/ING F				• . 	
RECEIV	Printed/Typed Name Sign	ature		Month	Day Yea Y / S
REC	Designated Facility Owner or Operator: Certification of receipt of materials covered by the	his data form.		<u> / (</u> ](	7



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# NON-HAZARDOUS WASTE DATA FORM

		260091
	Generator's Name and Malling Address ANDY SABERI / EQUILON ENTERPRISES, LLC	Generator's Site Address (If different than mailing address) SHELL/SABEK, INC.
	SUITE 12 SOUTH SAN FRANCISCO, CA 94080	1230 14TH STREET OAKLAND, CA 94607
	Communic Physics 510-836-3709	
	Container type removed from site:	Container type transported to receiving facility:
	I Drums Dump Truck Diff Truck X Dump Truck	Drums D Vacuum Truck D Roll-off Truck 🕅 Dump Truck
	Other	Conther
<b>TOR</b>	Quantity 1	Quantity 1. Volume
H.	WASTE DESCRIPTION NON-HAZARDOUS SOIL	GENERATING PROCESS REMEDIAL EXCAVATION
ENE	COMPONENTS OF WASTE / PPM %	COMPONENTS OF WASTE PPM %
Ъ.	3. SOIL 09-100%	3
1	₂	4
	Waste Profile #3598 PROPERTIES: pH	
n e Norske dere g		AL DESTECTIONE OF STRATES
	HANDLING INSTRUCTIONS: WEAK ALL APPROPRIATE PERSON	
•	on behalt of And Saberi	
	Generator Printed/Typed Name Signature	Month Day Year
-	The Generator certilies that the waste as described is 100% non-hazardous	Phone#
ĒR	MG TTRUCKING Transgorter 1 Printed/Typed Name Signature	(650)7(370)3 Month Day Year
<b>ORT</b>	APTURO BOLIANOS IC	e11/19/15
NSP	transporter Acknowledgment of Heceipt of Materials Transporter 2 Company Name	Phone#
TRA	Transporter 2 Printed/Typed Name Signature	Month Day Year
	Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address	Phone#
Ē	RECOLOGY HAY RD. LANDFILL	707-678-4718
5	6426 HAY RD	
Ę	VACAVILLE, CA 90087	
5 2		
NIN I		3
U U U	Printed/Typed Name Signature	Month Day Year
Ē	Designated Facility Owner or Operator: Cartification of receipt of materials overed by this deld for	11/17/D



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		260091
	Generator's Name and Mailing Address	Generator's Site Address (if different than malling address)
	ANDY SABERI / EQUILON ENTERPRISES, LLC	SHELL/SABEK, INC.
, ·	SUITE 12	1230 14TH STREET
	SOUTH SAN FRANCISCO, CA 94080	OAKLAND, CA 94607
	操作的复数形式 化反应性结构 化离子分子	
	610-838-3700	
	Container type removed from site:	Container type transported to receiving facility:
	Drums Di Vacuum Trück Di Roll-off Trück MM Dump Trück	L Drums L Vacuum Truck L Roll-off Truck M Dump Truck
1	Other.	U Other
Ц Н	Quantity	t Cuantity Actives a second to Volume
E,		
	WASTE DESCRIPTION NON-HAZARDOUS BOIL	GENERATING PROCESS REMEDIAL EXCAVATION
۳, E	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE PPM %
ЦЩ (Л	COU 00.400%	
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	WELLE BARD AND AND AND AND AND AND AND AND AND AN	
	waste eronie	
	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONA	L PROTECTIVE CLOTHING. /
	Lile CA.L. L.	
	On Dehalt of Analy Saber	
	Generator Printed/Typed Name	- Workin Days Pread
<u>}</u>	The Generator certifies that the waste as described is 100% non-hazardous	and the second sec
	Transporter 1 Corpoany Name	Photos (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
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	Transporter 1 Printed/Typed Narge	Month Day Yea
Ĕ	A 290 Mar K Nahan AND Com 12/1	
	Transporter Acknowledgment of Receipt of Materials	Diana //
NS I	Iransporter 2 Company Name	rtione#
<b>⊼</b>	Transporter 2 Printed/Typed Name Signature	Month Day Yea
二二二		
1.		
	Transporter Acknowledgment of Heceipt of Materials	Phone#
≿		707-678-4718
	6426 HAY RD	
12	VACAVILLE, CA 95687	
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		$1 \dots n$
」 三 三	Printed/Typed Name Signature	Month Day Yea
	1 teals der	
<u>م</u>	Designated Facility Owner or Operator: Certification of receipt of materials covered by this data forn	
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# NO. 720256

	260091
enerator's Name and Mailing Address	Generator's Šite Address (If different than malling address)
ANDY SABERI / EQUILON ENTERPRISES, LLC	SHELL/SABEK. INC.
1045 AIRPORT BLVD.	1230 14TH STREET
SUITE 12 CONTERAN ERANCISCO CA GAGO	OAKLAND, CA 94607
South San Francisco, CA Show	
enerator's Phone: 610-836-3709	
ontainer type removed from site:	Container type transported to receiving facility:
TeDrums L Vacuum Truck L Holl-off Truck very Dump Truck	
1 Other	└ Other
Juantity	Quantity 1
방법 전형을 감독하는 것이 같아. 말 같아요. 같이 많이	
	REMEDIAL EXCAVATION
VASTE DESCRIPTION	GENERATING PROCESS
COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE PPM %
SOIL 99-100%	14
·	3
TPH	4
Waste Profile PROPERTIES: pH	
HANDLING INSTRUCTIONS: WEAK ALL APPROPRIATE PERSONA	L FROTEGINE CLOTINIO.
·**	
	<u>_</u> ]
Signature	Month Day #
internation remined remined	and Marauti Alal 1111G
in behalk or may some itrade a	Marmana Martin
he Generator certifies that the waste as described is 100% non-hazardous	
ransporter 1 Company Name	Phone#
HEANANDER INK	2007 609 - 5123
ransporter 1 Printed/Typed Name	A Month Day
HEATON HEWALANDA NIK	$\sim$ $1/29$
+ 11/1 ANCE (JORANINO DE 1/1-	- When the second secon
ransporter Acknowledgment of Heceipt of Materials	Phone#
· · · · · · · · · · · · · · · · · · ·	1
tensoorter 2 Printed/Typed Name Signature	Month Day
	· I I I
ransporter Acknowledgment of Receipt of Materials	Bhano#
Designated Facility Name and Site Address	707-678-4718
	1 1/2
6420 HAY KU	3 · · ·
VACAVILLE, CA 90097	
le de la companya de	
	Month Day
Printed/Typed Name Signature	
rinted/Typed Name Signature	
Printed/Typed Name Signature	
Printed/Typed Name Signature	

14- 14

RECOLOGY HAY ROAD Ticket: 1490198 5426 Hay Road Vacarille, CA 98687 Date: 11/10/2015 Phone: (707)-678-4718 Pime:00:50:50 - 00:51:22 THEOMAD Truck: 3165 Customer: 53884/BELSHIRE ENVIRONMENTLigeness UP07171 91960 188 Gross; Scals Origin: OAK/Oakland There a 32560 683 **Preffar** 59400 LBS Nert : Profile: 5595/Belshire Env. Bery/Andy S Schle: Hl Materials 5 Services Quantity Nate ănount. ÷. è9,≓70, TONS SOIW/WOC Soil -17 Terri Wilson Signature. VMSTR4-LO 9/09 🗳 Printed on recycled paper

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		BESI# 260091
	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC	Generator's Site Address (if different than mailing address) SHELL/SABEK, INC.
	1045 AIRPORT BLVD.	1230 14TH STREET
	SOUTH SAN FRANCISCO, CA 94080	OAKLAND, CA 94607
1	Generator's Phone: 510-836-3709	
	Container type removed from site:	Sontainer type transported to receiving facility:
		Drums D Vacuum Truck D Boll-off Truck
	Conther	• Other
١ <u>٣</u>	Quanfity 1	Quantity 1 Volume () ////
ΙĘ.	El Martin Section de Martin de	
È	WASTE DESCRIPTION NON-HAZARDOUS SOIL	GENERATING PROCESS
ا <u>ت</u>	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE PPM %
Г.Ш.	SOIL 99-100%	
		3
	TPH <1%	
	2	4 ********************************
6.2	Waste Profile	
		L BROTECTIVE CLATUINA
		and the second
Ì	Generator Printed (Typed Name OH BENAIT OK General as Bignature	Month Day Year
1.0	Janes Dauer Im 1	11 23 15
	The Generator certifies that the waste as described is 100% non-hazardous	
4	Transporter 1 Company Name	Phone#
	Transporting 1 Divided Marine	Month Day Yoar
		-05 11 02 15
0	TUNKI ADDIE TIM	~ <u>ay</u>
L C	Transporter 2 Company Name	Phone#
A		
l E	Transporter 2 Printed/Typed Name Signature	Month Day Year
1		
	Transporter Acknowledgment of Receipt of Materials	
	Designated Facility Name and Site Address	Phone# 707-678-4718
	6428 HAY RD	4
<b>V</b>	VACAVILLE, CA 95687	ž
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NC N	₹	
Ι <u>Σ</u>	$\sim$	
	Printed/Typetd Name Signature	Month Lay Year
ШШ ШШ	The land to the owner of Descent of Still States of materials equated by the States of the	
	Designation Paoling Owner of Operation Operation of terraph of materials covered by this Batteriorm	
		No. 1997 - Charles Martine, and the Constant of Market (Charles and Charles and Char

ी । को ना है RECOLOGY HAY ROAD Ticket: 1491736 5426 Hay Road Vacaville, CA 9568 $T_{\odot}$ Date: 11/23/2018 Phone: (707) -670-4718 Time: 10:36:10 - 14.45:17 TRUMAN Truck: 10507 Customer: 53994/BELSHINE ENVIRONMENTLicense: 9894795 Geoss: 84100 688 Marmal Take: 23760 683 Scale. Origin: OAK/Oakland Merti : 55340 688 Vcofile: 65969/Andy Saberi/1230 14ph 3 Seale: H2 Rate Anoust Materials & Services Quantity 27 67 TONS SOLW/VOC Sail WASH 312.94 Frances Jackson /MSTR4-LO 9/09 🗳 Printed on recycled paper

## NON-HAZARDOUS WASTE DATA FORM

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			BESI # 260091	· · ·
	Generator's Name and Malling Address	Generator's Site Address	(if different than mailing address)	
	ANDY SABERI / EQUILON ENTERPRISES, LLC	SHELL/SABEK	INC	
	1045 AIRPORT BLVD.	ADOD AATU OTO		
	SUITE 12			
	SOUTH SAN FRANCISCO, CA 94080	OAKLAND, CA	94607	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
-		•		
		, · ·		
	Generator's Phone: 510-935-3709		· · · · · · · · · · · · · · · · · · ·	
	Container type removed from site:	Container type trai	nsported to receiving facility:	
		<b>D</b> - D.		¥¥
	Drums U Vacuum Iruck U Roll-off Iruck "U Dump Iruck	U Drums U V	acuum Truck 🖵 Roll-off Truck	Car Dump Truck
1				
	Q Other	Other	÷	
			1 2000	
l'œ	Ouentity 1	Quantine 1		1 Lords
O	wupining	Quantity		
5				
	MASTE DESCRIPTION NON-HAZARDOUS SOIL		REMEDIAL EXC	AVATION
μ		GENERATING PROCE		
Ξ.	COMPONENTS OF WASTE PPM %	COM	PONENTS OF WASTE	PPM %
G	SOIL 98-100%			
	] ·	· 3	······	<u> </u>
		· · · · ·	1944 - A.	
	IPH ≤1%	<b>4</b> .	•	•
		"		·····
	Waste Profile w H0598			OTHER
	Generator Printed/Typed Name for generalor Signature	1		Month Day Year
	Generator Printed/Typed Name for generator Signatures	B		Month Day Year
	Generator Printed/Typed Name For generalor Signature Ames Bawer The Generator certifies that the waste as described is 100% non-hazardous	B		Month Day Year
	Generator Printed/Typed Name For Generalor Signature Ames Baker The Generator certifies that the waste as described is 100% non-hazardous Transported 1 Company Name	B	Phonet	Month Day Year
×	Generator Printed/Typed Name For Generaloc Signature Generator Printed/Typed Name For Generaloc Signature The Generator certifies that the waste as described is 100% non-hazardous Transported 1 Company Name The Generator Certifies that the waste as described is 100% non-hazardous	B	Phone#08) 21	Month Day Year 1112315 2-9389
July 1	Generator Printed/Typed Name For Generalor Signature Generator Printed/Typed Name For Generalor Signature The Generator certifies that the waste as described is 100% non-hazardous The Generator certifies that the waste as described is 100% non-hazardous The Generator Company Name Apple Apple	ß	Phone (\$08) 31	Month Day Year 111 23 13 3-9389
IER	Generator Printed/Typed Name For Generalou Signature Generator Printed/Typed Name For Generalou Signature The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Printed/Typed Name Signature	ß	Phone#08) 31	Month Day Year 11/23/13 3-9389 Month Day Year
neter	Generator Printed/Typed Name for Generalou Signature Ames Baner The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Coppany Name OO OLEN Apple Transporter 1 Printed/Typed Name GOOLON Apple	ß	Phone #06) 31	Month Day Year
-ORTER	Generator Printed/Typed Name For Generalor Signature Ames Baher The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name OD OLEN ADDE Transporter 1 Printed/Typed Name Signature Signature Transporter Acknowledgment of Receipt of Materials	ß	Phone#08231	Month Day Year 11 23 13 3-9389 Month Day Year
spòrtier	Generator Printed/Typed Name For Generalou Signature Ames Baker The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name DOLOLEN Transporter 1 Printed/Typed Name Signature Transporter Acknowledgment of Receipt of Materials	<u>}</u>	Phone# Phone#	Month Day Year 11 23 13 3-9389 Monin Day Year
ANSPORTERY	Generator Printed/Typed Name For Generalou Signature Ames Bauer The Generator certifies that the waste as described is 100% non-hazardous Transportel 1 Company Name DOI OLEN ADDE Transporter 1 Printed/Typed Name Signature Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name	<u>}</u>	Phone# 31	Month Day Year 112315 3-9389 Month Day Year
RANSPORTER	Generator Printed/Typed Name For Generalou Signature Ames Baker The Generator certifies that the waste as described is 100% non-hazardous Itansportel 1 Company Name DOI DEW Transporter 1 Printed/Typed Name Signature Transporter Acknowledgment of Receipt of Viaterials Transporter 2 Company Name Signature Signature Signature Signature Signature		Phone# 08 31	Month Day Year 11 23 13 3-9389 Month Day Year Month Day Year
TRANSPORTER	Generator Printed/Typed Name For Generalou Signature Ames Baker The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name DOI DEN Transporter 1 Printed/Typed Name Signature Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name Transporter 2 Printed/Typed Name Signature	<u>B</u>	Phone# (\$05) 31 Phone# 1	Month Day Year
TRANSPORTER	Generator Printed/Typed Name For Generalou Signature Ames Baker The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name DOI DEN Transporter 1 Printed/Typed Name Signature Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name Signature Signature Signature	100947	Phone# 80831 Phone# 95	Month Day Year
TRANSPORTER	Generator Printed/Typed Name For Generalou Signature Generator Printed/Typed Name For Generalou Signature The Generator certifies that the waste as described is 100% non-hazardous Itënsportel 1 Company Name DOLOUN Name Signature Transporter 1 Printed/Typed Name Transporter Acknowledgment of Receipt of Materials Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name	<u>₩98</u> 947	Phone# 808 31 Phone# 1	Month Day Year
Y TRANSPORTER	Generator Printed/Typed Name       For       Generator Difference       Signature         Ames Baker       Image: Signature       Image: Signature       Image: Signature         The Generator certifies that the waste as described is 100% non-hazardous       Image: Signature       Image: Signature         Itemsporter 1 Company Name       Image: Signature       Signature         Transporter Acknowledgment of Receipt of Materials       Image: Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter Acknowledgment of Receipt of Materials       Image: Signature         Transporter 2 Printed/Typed Name       Signature         Transporter Acknowledgment of Receipt of Materials       Image: Signature         Transporter 2 Printed/Typed Name       Signature         Transporter Acknowledgment of Receipt of Materials       Image: Signature         Transporter Acknowledgment of Receipt of Materials       Image: Signature         Transporter Acknowledgment of Receipt of Materials       Image: Signature	\$ *98947	Phone# Phone# Phone# Phone#	Month Day Year
ITY TRANSPORTER	Generator Printed/Typed Name for Generalou Signature Ames Baker The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name OUCLEN Transporter 1 Printed/Typed Name Signature Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature Transporter Acknowledgment of Receipt of Materials Transporter 2 Printed/Typed Name Signature	\$ #98947	Phone# Phone# 195 Phone# 707-678-4718	Month Day Year
ILITY TRANSPORTER	Generator Printed/Typed Name for Generalor Signature Ames Baker The Generator certifies that the waste as described is 100% non-hazardous if ansporter 1 Company Name OUCLEN Transporter 1 Printed/Typed Name Signature Signature Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name Signature Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature RECOLOGY HAY RD. LANDFILL 6428 HAY RD	\$ #98947	Phone# Phone# Phone# Phone# 707-678-4718	Month Day Year
ACILITY TRANSPORTER	Generator Printed/Typed Name       For       Generator Difference       Signature         Ames Baker       Image: Signature       Image: Signature       Image: Signature         Intersporter 1 Company Name       Image: Signature       Image: Signature         Intersporter 1 Printed/Typed Name       Signature       Signature         Intersporter 1 Printed/Typed Name       Signature       Signature         Intersporter 2 Printed/Typed Name       Signature       Image: Signature         Transporter 2 Company Name       Image: Signature       Image: Signature         Transporter 2 Company Name       Image: Signature       Image: Signature         Transporter 2 Printed/Typed Name       Signature       Image: Signature         De	B +98947	Phone# Phone# Phone# Phone# 707-678-4718	Month Day Year
FACILITY TRANSPORTER	Generator Printed/Typed Name       For       Generator       Signature         The Generator certifies that the waste as described is 100% non-hazardous       Mess       Mess         Itansportel 1 Company Name       Mess       Mess         Older       Mess       Mess         Itansportel 1 Company Name       Signature         Mess       Mess       Mess         Itansporter 1 Printed/Typed Name       Signature         Transporter Acknowledgment of Receipt of Materials       Mess         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Printed/Typed Name       Signature         Tansporter 2 Printed/Typed Name       Signature         Designated Facility Name and Site Address       RECOLOGY HAY RD. LANDFILL         G428 HAY RD       VACAVILLE, CA 95687	B +98947	Phone# 93000# Phone# 707-878-4718	Month Day Year
G FACILITY TRANSPORTER	Generator Printed/Typed Name       For       Generator Difference       Signature         The Generator certifies that the waste as described is 100% non-hazardous       Image: Company Name       Image: Company Name         Transporter 1 Company Name       Image: Company Name       Signature         Transporter 1 Printed/Typed Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Company Name       Image: Company Name         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature         Tansporter 2 Printed/Typed Name       Signature         Tansporter 2 Printed/Typed Name       Signature         Tansporter Acknowledgment of Receipt of Materials       Materials         Designated Facility Name and Site Address       RECOLOGY HAY RD. LANDFILL         G428 HAY RD       VACAVILLE, CA 95687	B +98947	Phone# 900 3 Phone# 707-878-4718	Month Day Year
ING FACILITY TRANSPORTER	Generator Printed/Typed Name       For       Generator Diffesion       Signature         The Generator certifies that the waste as described is 100% non-hazardous       Mage       Mage         ITansportel 1 Company Name       Mage       Mage         Transporter 1 Printed/Typed Name       Signature         Mage       Signature         Transporter Acknowledgment of Receipt of Materials       Signature         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Company Name       Signature         Transporter 2 Printed/Typed Name       Signature         Tansporter 2 Printed/Typed Name       Signature         Tansporter 2 Printed/Typed Name       Signature         Tansporter Acknowledgment of Receipt of Materials       Signature         Designated Facility Name and Site Address       RECOLOGY HAY RD. LANDFILL         G428 HAY RD       VACAVILLE, CA 95687	<i>B</i> ++98947 1C <sup>+</sup> 1C <sup>+</sup>	Phone# 900 3 Phone# 707-878-4718	Month Day Year
IVING FACILITY TRANSPORTER	Generator Printed/Typed Name       For       Generator       Signature         The Generator certifies that the waste as described is 100% non-hazardous       Mession       Mession         Transporter 1       Company Name       Signature         Transporter 1       Printed/Typed Name       Signature         Transporter 1       Printed/Typed Name       Signature         Transporter 2       Company Name       Signature         Transporter 2       Company Name       Signature         Transporter 2       Company Name       Signature         Transporter 2       Printed/Typed Name       Signature         Transporter 2       Company Name       Signature         Transporter 2       Printed/Typed Name       Signature         Transporter 2       Company Name       Signature         Transporter 2       Printed/Typed Name       Signature         Transporter 2       Printed/Typed Name       Signature         Teansporter 2       Printed/Typed Name       Signature         Designated Facility Name and Site Address	B +98947 1C*98947	Phone# Phone# 195 Phone# 707-878-4718	Month Day Year
SEIVING FACILITY TRANSPORTER	Generator Printed/Typed Name       For       Generator       Signature         The Generator certifies that the waste as described is 100% non-hazardous       Mession       Mession         Transporter 1       Company Name       Signature         Transporter 1       Printed/Typed Name       Signature         Transporter 2       Company Name       Signature         Transporter 2       Printed/Typed Name       Signature         Transporter 2       Company Name       Signature         Transporter 2       Printed/Typed Name       Signature         Teamsporter Acknowledgment of Receipt of Materials       Printed/Typed Name       Signature         Designated Facility Name and Site Address       Printed/Typed Name       Signature         Printed/Typed Name       Signature       Signature	<u>ж</u> ар947	Phone# Phone# 195 Phone# 707-678-4718	Month Day Year
ECEIVING FACILITY TRANSPORTER	Gengrator Printed/Typed Name       For       Generator       Signature         The Generator certifies that the waste as described is 100% non-hazardous       Hame       Hame         Hamporter 1       Company Name       Mathematication       Signature         Hamporter 1       Printed/Typed Name       Signature       Signature         Transporter Acknowledgment of Receipt of Materials       Mathematication       Mathematication         Transporter 2 Company Name       Signature       Signature         Transporter 2 Company Name       Signature       Mathematication         Transporter 2 Company Name       Signature       Signature         Transporter 2 Company Name       Signature       Signature         Transporter 2 Printed/Typed Name       Signature       Signature         Transporter 2 Printed/Typed Name       Signature       Signature         Pesignated Facility Name and Site Address       RECOLOGY HAY RD. LANDFILL       G428 HAY RD         VACAVILLE, CA 96087       Signature       Signature	\$ *98947	Phone# 95 Phone# 707-678-4718	Month Day Year
RECEIVING FACILITY TRANSPORTER	Gengrator Printed/Typed Name       Signature         Ine Generator certifies that the waste as described is 100% non-hazardous       Signature         Itansporter 1 Company Name       Mee         Itansporter 1 Printed/Typed Name       Signature         Itansporter 2 Company Name       Signature         Itansporter 2 Printed/Typed Name       Signature         Itansporter 2 Printed/Typed Name       Signature         Itansporter 2 Printed/Typed Name       Signature         Pesignated Facility Name and Site Address       RECOLOGY HAY RD. LANDFILL         6428 HAY RD       VACAVILLE, CA 96087         Printed/Typed Name       Signature         Designated Facility Owner for Operator; Certification of receipt of materials covered by this data form	\$ *98947 1C 98947	Phone# 95 Phone# 707-878-4718	Month Day Year 11 23 13 3-9389 Month Day Year Month Day Year Month Day Year
RECEIVING FACILITY TRANSPORTER	Gengrator Printed/Typed Name       For       Generation       Signature         The Generator certifies that the waste as described is 100% non-hazardous       Image: Company Name       Image: Company Name         Transporter 1 Company Name       Signature       Signature         Transporter 1 Printed/Typed Name       Signature       Image: Company Name         Transporter 2 Company Name       Signature       Image: Company Name         Transporter 2 Company Name       Signature       Image: Company Name         Transporter 2 Company Name       Image: Company Name       Image: Company Name         Transporter 2 Company Name       Image: Company Name       Image: Company Name         Transporter 2 Company Name       Image: Company Name       Image: Company Name         Transporter 2 Printed/Typed Name       Signature       Image: Company Name         Transporter Acknowledgment of Receipt of Materials       Image: Company Name       Signature         Transporter Acknowledgment of Receipt of Materials       Image: Company Name       Signature         Transporter Acknowledgment of Receipt of Materials       Image: Company Name       Signature         Designated Facility Name and Site Address       RECOLOGY HAY RD       Image: Company Name       Signature         Printed/Typed Name       Signature       Signature       Signature	1098947	Phone# 95 Phone# 707-878-4718	Month Day Year

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### **Belshire Environmental Tonnage Report**

Site Information	Disposal Facility
Shell/Sabek, Inc.	Recology Hay Rd. Landfill
1230 14th Street	6426 Hay Rd
Oakland, CA 94607	Vacaville, CA 95687
EPA ID:	EPA ID:

#### Shipment Description

Non-Hazardous Soil

Profile #: J#6596

Shipment Date	Manifest No	Ticket No	Load	Cleanup	Tons
11/21/2015	720243	1491068	1		17.03
11/21/2015	720244	1491129	2		19.02
11/21/2015	720246	1490980	3		18.16
11/21/2015	720247	1490957	4		18.25
11/21/2015	720248	1490971	5		15.97
11/25/2015	720245	1492220	6		21.34
11/25/2015	720295	1492388	7		24.05
	Proiect Tonna	ige Total			133.82

• • • • • **NO**. 720243

## NON-HAZARDOUS WASTE DATA FORM

		90000
		200091
	Generator's Name and Mailing Address	Generator's Site Address (if different than mailing address)
	ANDY SABERI / EQUILON ENTERPRISES, LLC	SHELL/SABEK, INC.
	1040 ARPORT BLVD.	1230 14TH STREET
	SOUTH SAN FRANCISCO CA 94080	OAKLAND, CA 94607
Ą		
•	Generator's Phone: 610-836-3709	
	Container type removed from site:	Container type transported to receiving facility:
•		
	Drums 🖵 Vacuum Truck 🖵 Roll-off Truck M Dump Truck	🖵 Drums 🖵 Vacuum Truck 🖾 Roll-off Truck 🗥 Dump Truck
Vities	Other	D Other
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ď,	Suantity / 1	Quantity 1 Volume 32.00105
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	WASTE DESCRIPTION NON-HAZARDOUS SOIL	GENERATING PROCESS
Z	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE PPM %
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	1 88-10070	3. <u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>
20		and the first
	TPH <1%	
R.	La	4. <u></u>
1	Waste Profile, #8596.) PROPERTIES: pH	🔲 SOLID 🛄 LIQUID 🛄 SLUDGE 🛄 SLUBRY 🛄 OTHER
	-	We have be a sub- an a time of a provide the second from the second from the to get a sub- the state when the
riy din azar	HANDLING INSTRUCTIONS WEAR ALL APPROPRIATE PERSON.	
		THE FIRE THE CONTRACT TO THE PARTY OF THE PA
		a
	Generator Printed/Typed Name On, be boil F os Signature	A Month 4 Day 1 Year
, ,	Genérator Printed/Typed Name On be boilf or Signature Andy Cohering and Boilt	B Month L day    Year
	Generator Printed/Typed Name On beboilf of signature Andy Saberi James Bairry	Month Day 1 Year
, , , , , , , , , , , , , , , , , , ,	Generator Printed/Typed Name On be boilf of Signature Andy Saberi James Bater The Generator certifies that the waste as described is 100% non-hazardous	B B B B B B B B B B B B B B B B B B B
	Generator Printed/Typed Name On be boilf of Signature And Y Saber I James Bater The Generator certifiles that the waste as described is 100% non-hazardous	Phone#
	Generator Printed/Typed Name On beboilf of Signature Andy Saberi James Bahrv The Generator certifices that the waste as described is 100% non-hazardous	Phone#
TER.	Generator Printed/Typed Name On be boilf of Signature Andy Saber-i dames Bairr The Generator certifies that the waste as described is 100% non-hazardous - 2 Transporter Company Name Holcch Apple	Phone#
RITER	Genérator Printed/Typed Name On be boilf of signature And Y Saber i d'ames Baurr The Generator certifies that the waste as described is 100% non-hazardous	Phone#
OGRIFER (	Generator Printed/Typed Name On be boilf of Signature And Y Saberi James Bater The Generator certifies that the waste as described is 100% non-hazardous Transporter Company Name Holdch Apple Transporter 1 Printed/Typed Name Signature Rundy Transporter Acknowledgment of Receipt of Materials	Phone#
ISPORTER	Generator Printed/Typed Name On be boilf of Signature And Y Saber-i Sames Bater The Generator certifites that the waste as described is 100% non-hazardous Transporter / Ompany Name Holdch Apple Transporter 1 Printed/Typed Name Rundy Transporter 2 Company Name	Phone#
ANSPORTER (	Generator Printed/Typed Name On be boilf of Signature And Y Saberi James Bairr The Generator certifies that the waste as described is 100% non-hazardous Transporter Ompany Name HoldCh APPC Transporter 1 Printed/Typed Name Rundy Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name	Phone#
RANSPORTER_	Generator Printed/Typed Name On be boilf of Signature And Y Saber-i James Bauer The Generator certifies that the waste as described is 100% non-hazardous Transporter / Company Name Goldcon Apple Transporter 1 Printed/Typed Name Rundy Transporter 2 Printed/Typed Name Signature Signature Signature Signature	Phone# Phone# Phone# Phone# Month Day Year Phone#
TRANSPORTER	Genérator Printed/Typed Name On be boilf of Signature And Y Saber-i d'ames Bauer The Generator certifies that the waste as described is 100% non-hazardous Transporter / Campany Name GoldCh Apple Transporter 1 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name	Phone# Phone# Phone# Phone#
TRANSPORTER	Genérator Printed/Typed Name On be boilf of Signature And Y Saber-i d'ames Bauer The Generator certifies that the waste as described is 100% non-hazardous Transporter / Ompany Name HoldCh Apple Transporter 1 Printed/Typed Name Rundy Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name	Phone# Phone# Phone# Phone# Month Day Year Phone#
TRANSPORTER	Generator Printed/Typed Name On be boilf of Signature And Y Saber-1 James Bater The Generator certifites that the waste as described is 100% non-hazardous Transporter Ompany Name GoldCh Apple Transporter 1 Printed/Typed Name Rundy Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name Transporter Acknowledgment of Receipt of Materials Designature	Phone# Phone# Phone# Phone# Phone# Month Day Year Phone#
IY TRANSPORTER	Generator Printed/Typed Name On be boilf of Signature And Y Saber-i James Baker The Generator certifies that the waste as described is 100% non-hazardous Transporter Ompany Name HoldCh APPC Transporter 1 Printed/Typed Name Rundy Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature Transporter Acknowledgment of Receipt of Materials Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address RECOLOGY HAY RD LANDFILL	Phone# Phone# Phone# Phone# Phone# Phone# Phone# Phone# Phone# Phone# Phone#
LITY   TRANSPORTER_	Generator Printed/Typed Name On be boilf of Signature And Y Saberi James Bairr The Generator certifies that the waste as described is 100% non-hazardous Transporter Company Name GoldCCM APPC Transporter 1 Printed/Typed Name Rundy Transporter Acknowledgment of Receipt of Materials Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address RECOLOGY HAY RD. LANDFILL Bd28 HAY RD	Phone# Phone# Phone# Phone# Phone# Phone# Phone# Phone# 707-878-4718
CILITY   TRANSPORTER	Generator Printed/Typed Name On be boilf of Signature And Y Saber-1 Aames Bauer The Generator certifies that the waste as described is 100% non-hazardous Transporter / Company Name GoldCh Apple Transporter 1 Printed/Typed Name Rundy Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature Signature Materials Designated Facility Name and Site Address RECOLOGY HAY RD. LANDFILL 6426 HAY RD VACAVILLE CA 95897	Phone# Phone# Phone# Phone# Phone# Phone# 707-678-4718
FACILITY TRANSPORTER	Generator Printed/Typed Name       On       be boilf       Signature         And Y       Saber-1       Ames       Bairr         The Generator certifies that the waste as described is 100% non-hazardous       -       -         Transporter Company Name       Signature       -         Model CCH       Apple       -       -         Transporter 1 Printed/Typed Name       Signature       -       -         Transporter 2 Printed/Typed Name       Signature       -       -         Transporter Acknowledgment of Receipt of Materials <td>Phone# Phone# Phone# Phone# Phone# Phone# Phone# 707-678-4718</td>	Phone# Phone# Phone# Phone# Phone# Phone# Phone# 707-678-4718
G FACILITY TRAINSPORTER	Generator Printed/Typed Name       On       be boilf       Signature         And Y       Saber-1       A mes       Baker         The Generator certifiles that the waste as described is 100% non-hazardous       A         Transporter Company Name       Mold CCh       Apple         Transporter 1 Printed/Typed Name       Signature         Max dy       Signature         Transporter 1 Printed/Typed Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter Acknowledgment of Receipt of Materials       Transporter 2 Printed/Typed Name         Transporter Acknowledgment of Receipt of Materials       Signature         Transporter Acknowledgment of Receipt of Materials       Signature         Designated Facility Name and Site Address       RECOLOGY HAY RD         VACAVILLE, CA 95887       Signature	Phone# Phone# Phone# Phone# Phone# Phone# Phone# Phone# 707-678-4718
NG FACILITY TRANSPORTER	Genérator Printed/Typed Name On be boilf of Signature And Y Saber-I Aames Baker The Generator certifiles that the waste as described is 100% non-hazardous Transporter Company Name HoldCh Apple Transporter 1 Printed/Typed Name Rundy Transporter 2 Printed/Typed Name Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature Signature Transporter 2 Printed/Typed Name Signature Signature Signature Acknowledgment of Receipt of Materials Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name	Phone# Phone# Phone# Phone# Phone# Phone# 707-678-4718
IVING FACILITY TRANSPORTER	Generator Printed/Typed Name On be boilf of Signature And Y Saberi Sames Bairy The Generator certifies that the waste as described is 100% non-hazardous Transporter Company Name HoldCh Apple Transporter 1 Printed/Typed Name Rundy Transporter Acknowledgment of Receipt of Materials Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature Signature Transporter 2 Printed/Typed Name Signature Signature Transporter 2 Printed/Typed Name	Phone# Phone# Phone# Phone# Phone# Phone# 707-878-4718
SEIVING FACILITY TRANSPORTER	Generator Printed/Typed Name On be boilf of Signature And Y Saber James Baker The Generator certifies that the waste as described is 100% non-hazardous Transporter Outpany Name GoldCh Apple Transporter 1 Printed/Typed Name Rundy Transporter Acknowledgment of Receipt of Materials Transporter 2 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature Printed/Typed Name Signature Signature Signature Printed/Typed Name Signature	Phone# Phone# Phone# Phone# Phone# Phone# Phone# 707-678-4718
ECEIVING FACILITY TRANSPORTER	Generator Printed/Typed Name       On, be boilf of       Signature         And Y Saberi Sames Bakry       The Generator certifies that the waste as described is 100% non-hazardous       Iterasporter Company Name         Transporter Company Name       Apple         Transporter 1 Printed/Typed Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter Acknowledgment of Receipt of Materials       Printed/Typed Name         Transporter Acknowledgment of Receipt of Materials       Printed/Typed Name         Designated Facility Name and Site Address       Printed/Typed Name         VACAVILLE, CA 95887       Signature	Phone# Phone# Phone# Phone# Phone# Phone# 707-878-4718
HECEIVING FACILITY   TRANSPORTER	Generator Printed/Typed Name       On, be boilf of Signature         And Y Saberi Aames Bair       Signature         The Generator certifies that the waste as described is 100% non-hazardous       Transporter Ompany Name         HoldCH APPle       Signature         Transporter Ompany Name       Signature         HoldCH APPle       Signature         Transporter Printed/Typed Name       Signature         Transporter Acknowledgment of Receipt of Materials       Transporter 2 Printed/Typed Name         Transporter 2 Printed/Typed Name       Signature         Transporter 2 Printed/Typed Name       Signature         Transporter Acknowledgment of Receipt of Materials       Transporter 2 Printed/Typed Name         Transporter Acknowledgment of Receipt of Materials       Signature         Transporter Acknowledgment of Receipt of Materials       Signature         Transporter Acknowledgment of Receipt of Materials       Signature         Designated Facility Name and Site Address       RECOLOGY HAY RD         VACAVILLE, CA 95887       Signature         Printed/Typed Name       Signature         Designated Facility Owner or Operator: Ceffification of receipt of materials covered by this data form	Mönth         Day         Year           Phone#         Month         Day         Year           Month         Day         Year         Year           Phone#         Month         Day         Year           Phone#         707-878-4718         Year           Month         Day         Year           Month         Day         Year
HEUEIVING FACILITY   TRAINSPORTER	Generator Printed/Typed Name       On       be boal if       OT       Signature         And Y       Saberi       Sames       Bateri       Signature         The Generator certifies that the waste as described is 100% non-hazardous       Transporter Company Name       Signature         MOLOCH       Apple       Rundy       Signature         Transporter 1 Printed/Typed Name       Signature       Signature         Transporter 2 Printed/Typed Name       Signature       Signature         Transporter Acknowledgment of Receipt of Materials       Designated Facility Name and Site Address       Signature         Printed/Typed Name       Signature       Signature       Signature         Designated Facility Owner or Operator: Ceftification of receipt of materials covered by this data form       Signature	Month         Day         Year           Phone#         Month         Day         Year           Month         Day         Year         Month           Phone#         707-678-4718         Year         Year           North         Day         Year         Year



## NON-HAZARDOUS WASTE DATA FORM

		260091
*	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12 SOUTH SAN FRANCISCO, CA 94080	Generator's Still Address (if different than mailing address) SHELL/SABEK, INC. 1230 14TH STREET OAKLAND, CA 84607
	510-936-3709	
	Container type removed from site:	Container type transported to receiving facility:
		Drums Di Vacuum Truck D Roll-off Truck
	Other	Other
OR	alantipe AID	Quantity 1 Volume 17 yrds
RAT	NON-HAZARDOUS SOIL	
<b>BENE</b>	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE PPM %
Ť	трн <1%	3
kongen steller V	Waste Profile	AL PROTECTIVE CLOTHING.
	Generator Printed/Typed Name On Behatfor Signature	Month Day Yes 11 2/ 1
	The Generator certifies that the waste as described is 100% non-hazardous	Phone#
сс.	GQLDEN APPLE	s Month Day Ye
ATE	Transpörter 1 Printed/Typed Name Signature	
Ö	CFOLDEN HENCE	
NS	Transporter 2 Company Name	find terr
TRA	Transporter 2 Printed/Typed Name Signature	Month Day Ye
ILITY	Transporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Addréss RECOLOGY HAY RD. LANDFILL 6426 HAY RD	Phone# 707-078-4718
FAC	VACAVILLE, CA 96687	
JNG		
$\geq$	Printed/Typed Name Signature	Month Day Y
<b>ECE</b>	STRACH (IAOX III	7/10 1 101
RECE	Designated Facility Owner or Operator; Certification of receipt of materials covered by this data-tor	



## NON-HAZARDOUS WASTE DATA FORM

•	BESI# 260091
	Conceptorie Cito Address (Editore and Mallion Address)
	AMBY SARERI / EQUILON ENTERPRISES, ELC 1045 AIRPORT BLAG. SUITE 12 SOUTH SAN FRANCISCO: CA 94550 CARLAND, CA 94557
· .	Generator's Phone: 510-835-3709
	Container type removed from site: Container type transported to receiving facility:
	🗇 Drums 🔍 Vacuum Truck 💭 Roll-off Truck 🖾 Dump Truck 💭 Drums 🖓 Vacuum Truck 🔍 Roll-off Truck 🖾 Dump Truck
	Other      Other
ОН	Quantity Volume Volume
ERAT	WASTE DESCRIPTION
Z	COMPONENTS OF WASTE PPM % COMPONENTS OF WASTE PPM %
Ш С	12-100% a a
F	TPH 19%
	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.
-	
	Generator Printed/lyped Name D & OCHON OT Signature Month Day Year
-	And Caboo Names Bunter - And The
	The Generator certifies that the waste as described is 100% non-hazardous
	Transporter 1 Company Name Phone#
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r. Ti	Transporter 1 Printed/Typed Name Signalure Month Day Year
E	
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Д.	Transporter 2 Company Name Phone#
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A A	Transporter 2 Printed/Typed Name Month Day Year
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·	Transporter Acknowledgment of Receipt of Materials
≥	RECOLOUSY HAY RD. LANDFILL 707-273-4718
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ECE.	Minteo/Typeo Namie
	Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.
÷.,	
RECOLOGY HAY ROAD Ticket: 1490980 6496 May Road Vacaville, CA 95587 Date: 11/21/2015 Phone: (707)-698-4718 Pime:10:43:24 - 10:44:11 INCOMO Truck: 10520 Customer: 53084/BELSHIRE ENVIRONMENTS Groes: 61860 LB3 Jaale Origin: QAK/Oakland nare: 25540 1333 FrePar 四曲七日 36320 688 Profile: 65963/Andy Saberi/1280 102h 3 Scale: Mi Materials & Services Quantity Ratie Amount 395-1 TOURS/VOC SCAL 18-16 TONS GEND a sekor 1993 1993 1993 Marion Allen Signature VMSTR4-LO 9/09 2 Printed on recycled paper

	N-HAZARDOUS WASTE	<b>DATA</b>	FORM	BES #	
	TO IT INCK	ж		260091	
	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVÓ." SUITE 12		Generator's Site Addre SHELL/SABEI 1230 14TH ST	ss (If different than mailing addre 4, INC. REET	<u>\$5)</u>
	SOUTH SAN FRANCISCO, CA 94080		OAKLAND, CA	A <u>84607</u>	\$
	Generator's Phone: 510-836-3709				
	Container type removed from site:		Container type tr	ansported to receiving fa	cility:
. 14	Drums D Vacuum Truck D Roll-off Truck	🗴 Dump Truck 🗧	🔍 🗋 Drums 🗖	Vacuum Truck 🔲 Roll-	off Truck 🕅 Dump Truck
	Other	- -	Gither	<u>;                                </u>	
	Almonto 1a		Quantity 1	<b>Giannesisja</b> Ventuenen	17
) 	GE NE	7	Guainty		
5	WASTE DESCRIPTION	SOIL	GENERATING PROC	REMEDI	ALEXCAVATION
	COMPONENTS OF WASTE	×M % ∳	CO	APONENTS OF WASTE	PPM %
5.	A. SOIL	98-100%	3		
- -	2	41%	4		584.00
م. مانتان و	Waste Profile J#6596	PROPERTIES: pH	; 🖸 solid 🗖	Liquid 🖵 sludge 🗔	SLÜARY DI OTHER
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		NIC FENDUN		CLOTHING.	Ju Ju
1			·	1	1. 0.04'O
•*	Generator Printed/Typed Name OAP the Benalf o	Signature	A.		Month Day Yea
	Andy Saberi James Baner		2	· · ·	1 1/24 1/5
	The Generator certifiles that the waste as described is 100% non-hazardous.	1		Phone #	
_	Golden Apple	iii 🥌	<b>f</b> <sup>1</sup>	;	the free set
ĩ	T/anspotter 11Prihted/Typed Name	Signature	Λ	ala yara a	Month Day Yea
		1/2		and the second s	Ar -
5	Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name			Phone#	
			<u>,                                     </u>		
:	Iransporter 2 Printed/ lyped Name	Signature			Month Day Yea
ļ	Transporter Acknowledgment of Receipt of Materials	l			
				Phone#	
	6426 HAY RD		·	101-010	41/10
	VAČAVILLE, CA 95687	1 4			· .
	<u>к</u>				
í þ	Printed/Typed Name	Signature			Monih Day Yea
1 1		- I		A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER	

RECOLDSY HAV ROAD Ticket: 1490957 6426 Hay Road Vacaville, CA 95687 Date: 11/21/2015 Phona: (707)~570~4718 Pimen: 10:09:12 = 10:00:10 TEBOURD Truck: 10031 Customer: 59004/BELSHINE ENVIR(NHENTLigense) 0451127 Gross: 50250 LBS Scala Origin: OAR/Ozkland Taid 23850 L83 Evelar 26500 LB3 Mat: s.,. Profile: 65960/Andy Suberi/1200 1864 9 Scale: H1 Materials & Services Shounts. Quantity Rate 18 225 TONS SOLDT TORE BOALS . . GEND Marion Allen VMSTR4-LO 9/09 🍪 Printed on recycled paper

NO. 720248

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#### NON-HAZARDOUS WASTE DATA FORM

-			BESI # 260091
ì	<u>.</u>	One of Mailing Address	Generator's Site Address (if different than mailing address)
	-	ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12 SOUTH SAN FRANCISCO, CA 94080	SHELL/SABEK, INC. 1230 14TH STREET OAKLAND, CA 94607
╈	·	Generator's Phone: 010-830-3709	Container type transported to receiving facility:
「「「「「「「」」」		Drums	Drums Diverse Vacuum Truck Direck M Dump Truck .
	i+s.	Other and the second seco	Other
	ATOR		
	Ш	WASTE DESCRIPTION	GENERATING FROCESS
.	Z	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE
	G	SOIL 98-100%	3 <i>)//////////////</i>
		2	
	ة مد قسرمان <del>ي</del> م	Waste Profile #6596. 3 PROPERTIES: pH	
	, · ·	HAND ING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSON	AL PROTECTIVE CLOTHING.
		Generator Printed/Typed Name o'n Behak of Signature Andi Sabeni James Bauer	
•		The Generator certilities that the waste as described is 100% 101/11/22/10003	559.916.9682
	ЦËР	Transporter t Brinhed/Typed Name	Month Day Year
	Ö	and the state of t	
	<b>JSP</b>	Transporter 2 Company Name	et al. and the second sec
•	₹.	Transporter 2 Printed/Typed Name "Signature	Month Day Year
	Ħ		
		Transporter Acknowledgment of Receipt of Materials	
	≿	Designated Facility Name and Site Address RECOLOGY HAY RD, LANDFILL	Phone# 707 <b>7878-4718</b>
		6426 HAY RD	
	NO	VACAVILLE, CA 95687	
	D		
	N N		
۲۰,		Printed/Typed Name Signature	Month 24 Year
	Ē	Designated Facility Owner or Operator: Certification of receipt of materials covered by this data for	orm.

RECOLOGY HAY ROAD 5426 May Road Vacaville, CA 95687 Phone: (707)-573-4713	Ticket: 1490971 Date: 11/21/2015 Time:10:10:04 - 10:31:32
Truck: 106 Customer: 53009/BELSHIRE ENVIRONMENT Origin: OAK/Oakland Profile: 68969/Andy Sabari/1230 14th S	Gross: 56260 1.85 Scale Tare: 24920 1.85 Scale Net: 31940 1.85 Scale: 112
Materials & Sections	Quantity Rape Amount
GEND	15 - 97 TCHS
and the second sec	
<sup>مر</sup> محمد المرابع	Frances Jackson
MSTR4-LO 9/09 🗳 Printed on recycled paper	

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NO. 720245

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## NON-HAZARDOUS WASTE DATA FORM

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		·	260091	
	Generator's Name and Malling Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD.	Generator's Site Address (if SHELL/SABEK, 1	different than mailing address)	
	Suite 12 South San Francisco, ca 94060	1230 14TH STRE OAKLAND, CA	ET 34607	
5	Generatorie Phone: 513-939-9709	· · · ·	*	4
· · ·	Container type removed from site:	Container type trans	ported to receiving facility:	
-1	Drums Vacuum Truck Roll-off Truck	Drums D Vac	uum Truck 🛛 🖾 Roll-off Truck	と Dump Truck
	Other	Other	· · · · · · · · · · · · · · · · · · ·	N Starten and Star
NTOR	Quantity 1	Quantity 1	Volume	17yrda.
ШЩ.	WASTE DESCRIPTION NON-HAZARDOUS SOIL	GENERATING PROCESS		AVATION
GEN	COMPONENTS OF WASTE PPM % SOIL 99-100%	COMPO	NENTS OF WASTE	PPM %
	2 TPH +19%	3	· · · · · · · · · · · · · · · · · · ·	
	Waste Profile JW0098.2	soup de lic	DUID) . 🛄 SLUDGE 📮 SLURRY	Отнея
st f	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONA	L PROTECTIVE C	LOTHING.	[
	General Debris			
	Generator Printed Typed Name OH Behalf OT Signature Avady Saberi Domes Bayer	B		Month Day Year
	The Generator certifies that the wasterias described is 100% non-hazardous		Phone#	
RER	Transporter 1 Printed/Typed Name	ral align		Month Day Year
PO	Transporter Acknowledgment of Receipt of Materials	hour Singh	·	11 62 13
ANS	Transporter 2 Company Name	· · · · · · · · · · · · · · · · · · ·	Phone#	• • • • • • • • •
TRÌ	Transporter 2 Printed/Typed Name Signature	pial su	Mah i	Month Day Year
<u> </u>	Transporter Acknowledgment of Receipt of Materials			
È	RECOLOGY HAY RD. LANDFILL		Phone# 36 707-878-4718	F
	6428 HAY RD VACAVILLE, CA 96687			
I NG I		4		
ECEIV	Printed/Typed Name Signature	17		Month Day Year
	Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.			
1				<b>a</b> . J

CED NO REPLACEMENT RECOLOGY HAY ROAD Ticket: 1492220 6426 Hay Road Vacaville, CA 95687 Date: 11/25/2016 Phone: (707)-678-4718 Time:00;41:50 - 00:42:05 INECOM Truck: 10031 Customer: 53884/BELSHIRE ENVIRONMENTALisense: 0451137 Gross: 68540 L83 Scale Origin: OAK/Oakland Tare: 22860 683 Praffaz Nat: 42680 683 Profile: 85963/Andy Saheri/1230 Web S Scale: HL Materials & Service Quantity Rate Амоцаб 301LV/VOC Soj 21,24 TON3 JUSHPUAL spha Marion Allan /MSTR4-LO 9/09 3 Printed on recycled paper

# NO. 720295

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# NON-HAZARDOUS WASTE DATA FORM

		BESI # 260091
	Generator's Name and Malling & Bores ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12 SOUTH SAN FRANCISCO, CA 94080	Generator's Site Address (if different than mailing address) SHELL/SABEK, INC. 1230 14TH STREET OAKLAND, CA 94607
	Generator's Phone: 510-836-3709	
	Container type removed from site:	Container type transported to receiving facility:
	Drums D Vacuum Truck D Roll-off Truck Dump Truck	Drums D Vacuum Truck D Roll-off Truck 🕅 Dump Truck
	Other	□ Other
B	Quantity	
ERAT		
	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE PPM %
Q	1 <b>29-100%</b>	3
	2	<b>4</b>
	Waste Profile JB PROPERTIES. pH	
	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONA	L PROTECTIVE CLOTHING.
3.		
	Generator Printer/Typed Name ONECE half of Andr Shev Lage	Month Day Year
	The Generator certifies that the waste as described is 100% non-hazardous	
	Fransporter 1 Company Name JUSHALL SINCH	Phone#
E E E E C	Jransporter 1 Printed/Typed Name Signature	Month / Day
D D	Transporter Acknowledgment of Receipt of Materials	
SNF	Transporter 2 Company Name	Phone#
TR/	Iransporter 2 Printed/Typed Name Signature Signature	Month Day Year
	ransporter Acknowledoment of Becklet of Mekadelin	
>	Designated Facility Name and Stré-Address	Phone#
	6426 HAY RD	707-679-4718
NAC	VACAVILLE, CA 95687	00°
5 I		
	rinted/Typed Name Signature Signature	Month Day Year
	esignated Facility Owner or Operator; Certification of receipt of materials bovered by this data form.	

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RECOLOGY HAY RCA) 6426 Hay Road Va Phone: (707)-673	0 ****ill*, CA 99667 - 1718		4110ket: 1492 Date: 11/25/ Time:12:35:0 THEODHD	388 2015 2 - 12/35122 
Truck: 10031 Customer: 53684 Origin: OAK/O Ruczile: 55960	/BELSHIRE ENVIRONMENTL; akland /Andy Saberi/Equilon Er	lennse: 0451127 1t	Gross: 7196 Tare: 2306 Ngt: 4010 Scale: H1	0 185 Scale 0 185 FreYax 0 185
Materials & Serri WEND/Senaral Debr		Quants.i.v 24.0	y <u>ea</u> S'ions	se Anourt
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#### **Belshire Environmental Tonnage Report**

Site Information	Disposal Facility
Shell/Sabek, Inc.	Recology Hay Rd. Landfill
1230 14th Street	6426 Hay Rd
Oakland, CA 94607	Vacaville, CA 95687
EPA ID:	EPA ID:

#### Shipment Description

Non-Hazardous Soil

Profile #: ADC

Shipment Date	Manifest No	Ticket No	Load	Cleanup	Tons
11/23/2015	720236	1491767	1		15.67
11/23/2015	720238	1491732	2		17.17
11/23/2015	720240	1491537	3		19.70
11/23/2015	720242	1491506	4		16.37
11/25/2015	720294	1492227	5		20.39
	Project Tonna	ge Total			89.30

NO. 720236

# NON-HAZARDOUS WASTE DATA FORM

		BESI # 260091
	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD.	Generator's Site Address (if different than mailing address) SHELL/SABEK, INC. 1230 14TH STREET
	SUITE 12 SOUTH SAN FRANCISCO, CA 94060	OAKLAND, CA 84607
	Generator's Phone: 610-836-3709	
	Container type removed from site:	Container type transported to receiving facility:
	Drums Diverse Vacuum Truck Direct Truck 🖾 Dump Truck	Drums Di Vacuum Truck Di Roll-off Truck 🖄 Dump Truck
	Other	Other
E E	Quantity 1	Quantity Votume
ERAT	WASTE DESCRIPTION NON-HAZARDOUS SOIL	
	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE PPM %
ច	SOIL 99-100%	3,
	TPH <1%	4
	Waste Profile	
والمناجعة المستسل		PROTECTIVE CI OTHING
	and the strengt here () Here () Signature	<sup>۲۰۰</sup> ۰۰ Month Day Year
	Hamps Bauer	m B- 11 [23] 15
A	Transporter 1 Company Name	Phone# 707-208-2003
RTEF	Transporter 1 Printed/Typed Name Schulev Sinch	Month Day Year <u>11 23 15</u>
ရို	Transporter Acknowledgment of Receipt of Materials	Pípoe#
N		
À	Transporter 2 Printed/Typed Name Signature	Month Day Year
	Transporter Acknowledgment of Receipt of Materials	
<b>_</b>	Designated Facility Name and Site Address RECOLOGY HAY RD, LANDFILL	Phone# 707-678-4718
	6426 HAY RD	• <b>*</b>
<b>V</b>	VACAVILLE, CA 95687	
L L	and the second se	
NG	and the second	
	District Marco	Month Dav Year
RECE	Primeur vyped Name Signalure Designated Facility Owner or Operator: Certification of receipt of materials covered by this date form	11/23/2
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#### **ദ NO.** 720238 9, NON-HAZARDOUS WASTE DATA FORM

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		BESI # 260091
	Generator's Name and Malling Address	Generator's Site Address (if different than malling address)
	ANDY SABERI / EQUILON ENTERPRISES, LLC	SHELL/SABEK, INC.
	SUITE 12	1230 14TH STREET
	SOUTH SAN FRANCISCO, CA 94080	OAKLAND, CA 94607
	B10-836-3709	
	Container type removed from site:	Container type transported to receiving facility
	🖵 Drums 🔲 Vacuum Truck 🖓 🖬 Róll-off Truck 🏧 Dump Truck	Drums D Vacuum Truck D Roll-off Truck Dump Truck
	C Other	• Other
		12
Ь	Quantity	Quantity Volume 0 70 S
ΥT(		
E E	WASTE DESCRIPTION NON-HAZARDOUS SOIL	GENERATING PROCESS
Ë	COMPONENTS OF WASTE PPM	
Щ,		
0		3
1.1		
	TPH <1%	4
	Waste Profile: PROPERTIES: pH	
	WEAR ALL APPROPRIATE PERSONAL	PROTECTIVE CLOTHING
/		
$\dot{c}$ in		
	A A	
	Generator Printed/tiped Name Signature Signature	Month Day Year
	James Bay are	1/ 1231 /5
	The Generator certifies that the waste as described is 100% non-hazardous	
• •	Transporter 1 Company Name	Phone# ////////
$ \rightarrow $	GAL TKK 106	559.96.98
Ш.	Transporter 1 Printed/Typed Name Signature	Month Day Year
		1/1/12/15
Q	Transporter Acknowledgment of Receipt of Materials	1/5/
S	Transporter 2 Company Name	Phone#
AN	K	
Ē	Transporter 2 Printed/Typed Name Signature	Month Day Year
1.7		
	Transporter Acknowledgment of Receipt of Marcels 1997	
≻-	Designated Facility Name and Site Address	Phone#
F	RECOLOGY HAY RD. LANDFILL	707-678-4716
5		the second se
Ă	VAUAVILLE, CA VOUV	
5		
ž,	·	- 10 <sup>-</sup>
≥`	Division of the Local Manua	
U.S.	Prinjueo, i vone Signaleffe	Month Day Year
透上	founded (110/109	and the second second
<u> </u>	pesignated Facility Owner or Operator: Certification of receipt of materials covered by the data form	



**NO.** 720240

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### NON-HAZARDOUS WASTE DATA FORM

	and the second	260091
. : .	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC 1045 AIRPORT BLVD. SUITE 12	Generator's Site Address (if different than mailing address) SHELL/SABEK, INC. 1230 14TH STREET
	SOUTH SAN FRANCISCO, CA 94980	OAKLAND, CA 94607
	Generator's Phone: 510-836-3709	
	Container type removed from site:	Container type transported to receiving facility:
	Drums D Vacuum Truck D Roll-off Truck 🕅 Dump Truck	Drums D Vacuum Truck D Roll-off Truck
	Guille Other	<sup>1</sup> Other
	Quantity1	Quantity 1 Volume 18 yrds
Ş	WASTE DESCRIPTION NON-HAZARDOUS SOIL	GENERATING DEGGESS REMEDIAL EXCAVATION
1.	COMPONENTS OF WASTE PPM %	COMPONENTS OF WASTE PPM
5	\$01L 99-100%	
	1	3,
1	₂ TPH ≪1%	
zyć.	Waste Profile J#0596 3 . 3 PROPERTIES: pH	
	HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONA	L PROTECTIVE CLOTHING.
		S
	Generator Printed/Typed Name Signature	Monih Day Yea
	Jemes Bayer	1/23/2
	The Generator certifies that the waste as described is 100% non-hazardous	
	Transporter 1 Company Name	Phone#
i	Transporter 1 Printed/Typed Name Signature	A Month Diay Year
A	Saturder Singh	11/23/15
	Transporter 2 Company Name	Phone#
	Transporter 2 Printed/Typed Name Signature	Month Dev Vee
	្រុកក្រុ ស៊ីទទឹក,	i i
þ	Transporter Acknowledgment of Receipt of Materials	
ļ	Designated Facility Name and Site Address	Phone# 767 870 4740
	6426 HAY RD	(6/10/64/10
	VACAVILLE, CA 95687	the states
		5 s.
	. · · · · · ·	
		Month Dav. Year
. P	olghalard ( )	
P	Arunial a Trill	
P C D	esignated Facility Owner or Operator: Certification of receipt of materials covered by this data form.	$ \downarrow \downarrow \downarrow \downarrow$

RECOLOGY HAY ROAD Ticket: 1491537 6426 Hay Road Vacaville, CA 95687 Date: 11/23/2018 Phone: (707)~678-4718 Time: 10:26:20 - 10:26:09 THEORED Truck: 10032 Customer: 53634/BELSHIRE ENVIDONMENTULizense: 59448a1 Groze: 50120 188 Scale Origin: OAK/Oakland Tara: 19730 583 Frefar. Net 39400 LBS Profile: 65969/Andy Saberi/1230 19th 3 Scale: Ml Materials & Services Quantit Rate dracom6. 19.70 PONS SOTLW/VOC Sail Érances dackson Jignature VMSTR4-LO 9/09 🖏 Printed on recycled paper



## NO. 720242

#### NON-HAZARDOUS WASTE DATA FORM

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<u> </u>	Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, LLC		Generator's Site Address (if differe SHELL/SABEK, INC	ent than mailing address)		
	1045 AIRPORT ELVD. SUITE 12	( 	1230 14TH STREET	17		
	, SOUTH SAN FRANCISCO, CA 94080	and a start and a start				
		, I	, <u>(</u>	· · ·		
	Container type removed from site:		Container type transporte	ed to receiving facility:		
	🖸 Drums 🔲 Vacuum Truck 📮 Roll-off Truck	Dump Truck	🖵 Drums 📮 Vacuum	Truck 🔲 Roll-off Truck	: X Dump Truck	
	🖵 Other		Other			
	Quantity 1		Quantity		yrds	-
ζ		e emi			CAVATION	
Ī		ром «	GENERATING PROCESS	S OF WASTE	PPM %	<b>**</b> *
5	SOIL	99-100%			······	· · · · · · · ·
;	1. <u></u>		3			· ·
	2TPH	<1%	4		· · · · · · · · · · · · · · · · · · ·	I
 	Waste Profile #0596.2	REOPERTIES DH				
					×	
		RIASE PERSONA	L PROTECTIVE CLO	HHING)	· · · ·	
	HANDLING INSTRUCTIONS: WEAR ALL APPROPI	RIALE PERSONA	L PROTECTIVE CLO	THING		 
	HANDLING INSTRUCTIONS: WEAR ALL APPROPI	RIALE PERSONA	L PROTECTIVE CLO	HING		 
	HANDLING INSTRUCTIONS: WEAR ALL APPROPI			,	Month Day	Year
	HANDLING INSTRUCTIONS: WEAR ALL APPROPT			1HING.	Month Day 11 33	Year
	HANDLING INSTRUCTIONS: WEAR ALL APPROPI Generator Printed/Typed Name A ame S B 9 4 8 4 The Generator Certifies that the waste as described is 100% non-hazard Transporter 1 Company Name GAF, TRF	Signature Jous		Phope# \$9.916.91	Majur Day  11  33  82	Year
	HANDLING INSTRUCTIONS: WEAR ALL APPROPT	Signature ious Signature		Phope# \$9.916.91	Month Day 11 33 82 Month Day 11 23	Year 18 Yéar
	HANDLING INSTRUCTIONS: WEAR ALL APPROPT	Signature Signature Jous Signature		Phope# \$9.9.16.91	Manth Day 11 33 82 Month Day 11 23	Year 18 Yéar 19
	Generator Printed/Typed Name         James Bquer         The Generator certifies that the waste as described is 100% non-hazard         Transporter 1 Company Name         Gimes James         Gimes James         Transporter 1 Printed/Typed Name         Transporter 1 Printed/Typed Name         Transporter 1 Printed/Typed Name         Transporter 2 Company Name	Signature Signature Signature		Phope# Phope# Phone#	Manth Day 11 33 82 Manth Day 11 23	Year 18 Year
	HANDLING INSTRUCTIONS: WEAR ALL APPROPT	Signature Signature Signature		Phone# Phone# Phone#	Month Day	Year Year Year
	HANDLING INSTRUCTIONS: WEAR ALL APPROPT	Signature Signature Signature		Phone#	Month Day 11 33 82 Month Day 11 23 Month Day	Year Year Year Year
	HANDLING INSTRUCTIONS: WEAR ALL APPROPT	Signature Signature Signature	a Maria	Phone# Phone# Phone# Phone# 707-678-4711	Month Day 11 33 82 Month Day 11 23 Month Day 11 23 Month Day	Year Year Year
	HANDLING INSTRUCTIONS:       WEAR ALL APPROPI         Generator Printed/Typed Name       Image: Standard Sta	Signature Signature Signature		Phone# Phone# Phone# Phone# 707-678-4711	Month Day 11 33 82 Month Day 11 23 Month Day 11 23 Month Day	Year Year Year
	HANDLING INSTRUCTIONS:       WEAR ALL APPROPI         Generator Printed/Typed Name       Image: Source	Signature Signature Signature	a Marine	Phone# Phone# Phone# Phone# 707-678-4711	Month Day 11 33 82 Month Day 11 23 Month Day 11 23 Month Day	Year Year Year
	HANDLING INSTRUCTIONS:       WEAR ALL APPROPI         Generator Printed/Typed Name       Image: Standard Sta	Ious Signature Signature Signature		Phone# Phone# Phone# Phone# 707-678-4711	Month Day 11 33 82 Month Day 11 23 Month Day 11 23 Month Day	Year Year Year
	HANDLING INSTRUCTIONS:       WEAR ALL APPROPI         Generator Printed/Typed Name       Agmes B940800         The Generator certifies that the waste as described is 100% non-hazard         Transporter 1 Company Name         GAAL TRAC         Transporter 1 Company Name         Transporter 1 Printed/Typed Name         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Printed/Typed Name         Transporter 2 Printed/Typed Name         Transporter Acknowledgment of Receipt of Materials         Transporter Acknowledgment of Receipt of Materials         Transporter Acknowledgment of Receipt of Materials         Designated Facility Name and Site Address         RECOLOGY HAY RD         VACAVILLE, CA 95687	Signature Signature Signature		Phone# Phone# Phone# Phone# 707-678-4711	Month Day 11 33 82 Month Day 11 23 Month Day 11 23 Month Day	Year Year Year
	HANDLING INSTRUCTIONS:       WEAR ALL APPROPI         Generator Printed/Typed Name       A am c S B 9 40 8 40         The Generator certifies that the waste as described is 100% non-hazard         Transporter 1 Company Name         Charler Acknowledgment of Receipt of Materials         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Company Name         Transporter 2 Printed/Typed Name         Transporter 2 Printed/Typed Name         Transporter Acknowledgment of Receipt of Materials         Transporter 2 Printed/Typed Name         Transporter Acknowledgment of Receipt of Materials         Designated Facility Name and Site Address         RECOLOGY HAY RD.         VACAVILLE, CA 95687	Signature Signature		Phone# Phone# Phone# Phone# 707-678-4711	Month Day 11 33 82 Month Day 11 23 Month Day 11 23 Month Day	Year Year Year

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# <sup>12</sup> **NO**. 720294

# NON-HAZARDOUS WASTE DATA FORM

		DLGI#	260091	
Generator's Name and Mailing Address ANDY SABERI / EQUILON ENTERPRISES, 1045 AIRPORT BLVD. SUITE 12 SOUTH SAN FRANCISCO, CA 94060	ITC	Generator's Sile Address (if different that SHELL/SABER, INC. 1230 14TH STREET OAKLAND, CA 94607	1 mailing address)	
Generator's Phone: 510-836-3709			¢ ' ''''''''''''''''''''''''''''''''''	
Container type removed from site:	,	Container type transported to	receiving facility:	
Drums D Vacuum Truck D Roll-off	Truck X Dump Truck	🖵 Drums 📮 Vacuum Truck	Roll-off Truck	
D Other				
Quantity		Quantity <u>4</u>	Volume 17	ds . 1
WASTE DESCRIPTION NON-HAZARE			REMEDIAL EXCA	VATION
	<sup>. ррм</sup> % <b>98-100%</b>	COMPONENTS OF W	ASTE	PPM / %
SOIL 1	<1%	۲.		
Waste Profile J#8596. 3	PROPERTIES: pH		SLUDGE 🖸 SLURRY 🕻	) other
HANDLING INSTRUCTIONS: WEAR ALL APPR	OPRIATE PERSONA	L PROTECTIVE CLOTHIN	<b>IG</b> .	
		<b>,</b>		
M. Behalf. OF Gaugator S	aseAprel Signature	ast		Mohth Day Year
Transporter 1 Company Native ASIV as described is 100% non-	-nizzaraojis.		hone#	
Transporter 1 Printed/Typed Name	Signature	Z		_Month Day Year
Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name			?hone#	
Transporter 2 Printed/Typed Name.	··· Signature			Mộnth Day Yeàr
Transporter Acknowledgment of Receipt of Materials	L:	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
RECOLOGY HAY RD, LANDFILL		β	hone# 707-678-4718	
VACAVILLE, GA 95687			н. А	
		<i></i>		and and a second se
rinted/Typed Name	Signature		, ·	Month Day Year
MACINI				145-16



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VMSTR4-LO 9/09 3 Printed on recycled paper

.

#### **APPENDIX G**

Argent Materials Letter



James Bauer Sustainable Technologies April 13, 2016

Subj: Confirmation of Non-Hazardous Material

RE: 1230 14<sup>th</sup> Street

Mr. Bauer

The ¾ Class 2 Base Rock, Backfill material and ¾ Drain Rock sold at our yard in Oakland are free of contaminates. Our materials have been used on a wide variety of public and private projects without incident.

Kind Regards,

Bill Crotinger Argent Materials Inc. 8300 Baldwin St. Oakland, CA 94621