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4:05 pm, Sep 02, 2011 Alameda County Environmental Health

August 25, 2011

Mr. Rick Jeffries R & B Equipment Inc. 2215 Dunn Road Hayward, CA 94545

Subject: Tank Closure Report for 1000 North Vasco Road

in Livermore, California (Project 2010-035)

Dear Rick:

We are pleased to present this report which describes details of the tank and piping system removal performed by R&B Equipment at 1000 North Vasco Road in Livermore, California (the "Site"). Removal and sampling were observed by Livermore-Pleasanton Fire Department inspectors on both days. Collection of tank pit soil and water samples was observed by Ms. Danielle Stefani on January 21, 2011. Collection of pipeline trench and stockpile samples was observed by Mr. Paul Smith on January 27, 2011. Locations trench samples were directed by Mr. Smith and are potentially representative of worst-case conditions owing to location directly beneath former fuel dispensers.

Information provided in the Tank Closure Report includes descriptions of current tank and piping system removal work, summaries of past relevant work by others, and laboratory test results. Laboratory results apply only to the soil samples and water samples collected and tested as reported in the Tank Closure Report. Samples that could be collected from other locations on the Site may have similar or different concentrations than the concentrations reported.

Laboratory testing of soil samples collected at the time of tank and piping removal found elevated concentrations (1,400 – 3,200 mg/Kg) of diesel-range petroleum hydrocarbons in the diesel pipeline trench labeled as "Trench PL3." The concentration of diesel-range petroleum hydrocarbons in diesel pit water sample TP2-Diesel-W also was elevated above the Environmental Screening Level (ESL) of 100 μ g/L, and the concentration of gasoline-range petroleum hydrocarbons in gasoline tank pit water sample TP1-Gas-W was slightly above the ESL. Neither tank pit was de-watered and allowed to recharge before sampling; therefore, tank pit water samples may not be representative of formation water.

A signed copy of the Tank Closure Report is report should be forwarded by the Site's Owner to Alameda County Health Care Services Agency, to the hazardous materials specialist named below:

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





Armstrong, PG6134

Papineau, REA791

Project 2010-035 1000 North Vasco Road Livermore, California

Thank you for this opportunity to serve R&B Equipment Inc. If you have any questions or require additional information, please contact us directly.

Sincerely,

Marc Papineau

Marc Papineau
California Registered Environmental Assessor 791

Project Manager

R. Mark Armstrong

andre

California Professional Geologist 6134

Project Reviewer

c/o Matt Macedo 2995 Taylor Way Byron, CA 94514

August 25, 2011

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

Subject:

Tank Closure Report for 1000 North Vasco Road in Livermore, California

LUFT Case RO0003073 and Geotracker Global ID T10000002919

Dear Mr. Wickham:

On behalf of Eugene and Shirley Macedo Trust, I am pleased to submit the Tank Removal Closure Report for tank and piping system removal in January 2011.

We recently requested R & B Equipment Inc. and its subcontractor, Environmental Service, assemble a comprehensive Tank Removal Closure Report. Their report is intended to meet the County's written guidance for tank removal report content and answer your specific questions.

I declare, under penalty of perjury, that the information contained in the attached document is true and correct to the best of my knowledge.

Sincerely,

Matt Macedo

Enclosure: Tank Removal Closure Report dated August 25, 2011

cc. Scott A. Menard, President
 Arbor Development Group LLC
 3650 Mount Diablo Boulevard Suite 200
 Lafayette, CA 94549

Rick Jeffries R & B Equipment 2215 Dunn Road Hayward, CA 94545

TANK REMOVAL CLOSURE REPORT

FOR

1000 NORTH VASCO ROAD

LIVERMORE, CALIFORNIA

August 25, 2011

Prepared for:

R & B Equipment Inc. 2215 Dunn Road Hayward, CA 94545

TEL (510) 782-3774

Prepared by:

Environmental Service 5789 Gold Creek Drive Castro Valley, CA 94552

TEL (510) 881-8574 / FAX (510) 581-7204

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SIGNATURES AND CERTIFICATIONS

This Tank Closure Report describes details of tank and piping system removal performed at 1000 North Vasco Road in Livermore, California (the "Site"). Removal and sampling were performed on January 21 and January 27, 2011. Environmental Service and Earth Engineers were retained by R&B Equipment Inc., the tank and piping system removal contractor, initially to perform compliance sampling and later to prepare the Tank Closure Report.

Information conveyed in the Tank Closure Report includes descriptions of the current work on the Site, summaries of previous relevant work by others, and laboratory test results. Pipeline trench and tank pit footprints and sample locations for the work conducted on January 21 and 27, 2011, are shown in diagrams in the Tank Closure Report. These footprints and locations are approximate, based on tape measurements and referenced to features on a base aerial photograph. Locations of previous excavation footprints, bore holes, and monitoring wells, as also shown in the diagrams in the Tank Closure Report, are approximate, based on digital overlays of drawings prepared by others.

Laboratory results apply only to the soil samples and water samples collected on January 21 and 27, 2011, as reported in the Tank Closure Report. Samples that could be collected from other locations on the Site may have different concentrations than the concentrations reported.

The work presented herein is the work of a California Registered Environmental Assessor and a California Professional Geologist. The undersigned certify as follows: 1) We have performed this work with the same care and professional standards of practice prevailing for other similar work at the time of performance. 2) Statements contained in the Tank Closure Report are true and correct to the best of our knowledge.

Date of signature and certification: August 25, 2011

Marc Papineau

California Registered Environmental Assessor 791

Project Manager

R. Mark Armstrong

California Professional Geologist 6134

Project Reviewer

TABLE OF CONTENTS

<u>Se</u>	ection	Page
	SIGNATURES AND CERTIFICATIONS	i
	TABLE OF CONTENTS	ii
	LIST OF TABLES	iii
	LIST OF FIGURES	iii
1	OVERVIEW OF THE CLOSURE ACTIVITIES	1
2	TANK AND PIPING SYSTEMS REMOVED IN JANUARY 2011	3
3	DESCRIPTIONS OF THE EXCAVATIONS	4
4	VISUAL OBSERVATIONS OF SOIL AND GROUNDWATER	
	4.1 Observations During Recent Tank and Piping Removal Work	
	4.2 Limitations	
	4.3 Observations Made During Phase I and II Investigations	10
5	SAMPLING AND TESTING METHODS	12
3	5.1 Soil Sampling Methods	
	5.1 Soil Sampling Methods	
	5.3 Vapor Monitoring Method	
	5.4 Sampling Limitations and Exceptions	
	2.4 Samping Limitations and Exceptions	
6	INTERIM REMEDIAL MEASURES	16
7	REFERENCES	17
T /	ABLE	19
FI	GURES	20-25
ΡF	HOTOGRAPHS	26-31
Al	PPENDICES	32
	 A. Underground Tank Closure Plan B. BAAQMD Regulation 8, Rule 40 Notification C. City of Livermore Demolition Permit No. DEM10017 D. Receipt for Dry Ice E. Uniform Hazardous Waste Manifests for Tanks F. Certificates of Tank Destruction G. Republic Services Company Tag for Receipt of Piping for Landfil H. Republic Services Company Waste Profile for Fiberglass Piping I. Livermore–Pleasanton Fire Department Inspection Report #1 J. Livermore–Pleasanton Fire Department Inspection Report #2 K. Signed Laboratory Reports and Sample Chains-of Custody L. Chromatograms for Pit Water Samples M. Logs of Borings and Cone Penetration Test Soundings 	l Disposal

LIST OF TABLES

<u>Ta</u>	<u>able</u>	<u>Page</u>
1	LABORATORY RESULTS FOR SOIL AND WATER SAMPLES	19

LIST OF FIGURES

<u>Fi</u>	<u>Figure</u>		
1	SITE LOCATION MAP	20	
2	NEIGHBORHOOD OF THE SITE	21	
3	CURRENT AND PREVIOUS WORK	22	
4	2011 TANK AND LINE REMOVAL	23	
5	DETAIL OF TANK PIT TP1 AND TRENCH PL1	24	
6	DETAIL OF TANK PIT TP2 AND TRENCHES PL2 AND PL3	25	

1. OVERVIEW OF THE CLOSURE ACTIVITIES

Closure activities conducted in January 2011 consisted of tank and line removal and backfilling at a former Geno's Country Store service station located north of I-580 at 1000 N. Vasco Road in Livermore, Alameda County, California (the "Site"). Figure 1 shows the location of the Site on a topographic base map. Figure 2 shows the Site and neighbors on an aerial base map.

The prime contractor, R & B Equipment Inc., was retained by the Site's owner to perform removal of the tanks and pipelines and backfilling. Closure activities in January 2011 were follow-on to temporary closure of three underground storage tanks (USTs) and the associated pipelines in July 2008. Product piping had been drained and tanks pumped to remove residual fuel in 2008. Available documents describe the previous July 2008 activities as "temporary abandonment." Pipelines may have been disconnected and capped at the time of temporary abandonment. The current Tank Closure Report does not provide further detail concerning the work performed in July 2008.

Tanks and pipelines removed in January 2011 had been installed in 1994 and later were abandoned and out of service continuously during July 2008-January 2011. Tank removal in 1994 preceded installation of the current tanks. Three gasoline USTs and one diesel UST were removed in 1994 (Grayland Environmental, 1994). Remedial excavations were performed in 1994 and groundwater monitoring was performed during 1995-1996. The case, now closed, was listed by Alameda County by identification number RO0000410. The case closure letter issued by Alameda County was dated May 22, 2000.

An objective of the current work performed in January 2011 was to remove the temporarily abandoned tanks and lines. An owner-imposed constraint was to do so while maintaining open Los Vaqueros Grill restaurant on the Site. The Site's service station was inactive but a restaurant remained in business in the building on the Site. Therefore, excavation activities to uncover the tanks and lines were performed just to the extent necessary to access these underground facilities for removal.

Before removing the tanks and pipelines the concrete or asphalt surface covering was saw cut. The surface coverings were removed and tops of tanks and piping systems were carefully uncovered. Tanks had been drained in July 2008; therefore, pumping and disposal of liquids and tank bottom sludge were not necessary and were not performed. Inerting was performed using an abundant quantity of dry ice. The estimated effective ratio is 14 pounds dry ice per 1,000 gallons of tank volume. Each of the gasoline USTs was inerted with about 210-240 pounds of dry ice. The diesel UST was inerted with about 170-190 pounds of dry ice. Dry ice in the documented amount of 750 pounds was purchased at Mavry Welding Supply in Oakland on the day it was used; therefore, the estimated effective quantities allow for 10-20 percent loss before start of inerting.

The lower explosive limit (LEL) was measured by the contractor with a Combustible Gas Indicator (GCI) and oxygen level meter. The Livermore-Pleasanton Fire Department Inspector on the morning of January 21, 2011, observed the measurements. The CGI readings for the three tanks were 1-4 percent of the LELs for gasoline or diesel. Oxygen is normally about 21 percent in the atmosphere we breath, but should 13 percent or lower inside the tanks.

The oxygen levels and LELs were low and accepted for removal of the tanks for loading and transportation.

Tanks were loaded onto flatbed trucks and transported to ECI at 255 Parr Boulevard in Richmond, California. Transportation manifests and certificates of tank destruction are included in the appendices. See Appendix E and Appendix F.

Product piping and vent lines were accepted for disposal at Republic Services Company's Vasco Road Landfill. The tag for weight and a waste profile are included in the appendices. See Appendix G and Appendix H.

Backfilling was performed upon removal tanks and piping and completion of environmental sampling. Backfilling used interim stockpiled excavated fill removed over and around the tanks and pipelines and additionally used imported fill for make-up. Interim stockpiles were observed by the sampler and were noted to contain mostly pea gravel, typically with less than about 10-20 percent other fine-grained fill or native soil. Make-up fill consisted of 725 tons of Class II recycled base material (or, approximately 480 cubic yards) imported to the Site from Vulcan Material Company Plant #450 in Pleasanton. Backfilling was observed to be performed in uniform level lifts which were compacted using compaction equipment. See Photographs.

An objective of the work was to remove for proper disposal the tanks and piping abandoned and left temporarily in-place during July 2008-January 2011. Interim remedial actions (*e.g.*, expanded excavation of petroleum-affected soil) were not objectives of the work in January 2011. The depth of product line excavation was approximately 2.5-3 feet or depth sufficient to expose the pipes for access and removal. Except for Pipeline Trench PL2, excavation was not generally performed to remove all fill clear to adjacent native soil. Signs of substantial contamination and conduits for potential movement were not observed during the work; therefore, as interim remedial actions were not among the Site owner's objectives of the work and as gross contamination and conduits were not observed, such actions were not performed by the contractor.

Work including saw cutting, excavation, tank and piping system removal, disposal, backfilling and compaction was completed during January 20-31, 2011.

2. TANK AND PIPING SYSTEMS REMOVED IN JANUARY 2011

A tank couplet consisting of two (2) adjacent 15,000-gallon underground gasoline storage tanks, one (1) 12,000-gallon underground diesel storage tank, product and vent pipelines in three separate trenches were removed in January 2011. The tanks were located in two separate areas in the northeast corner of the Site and in the north-central area along the north side of the building.

For ease of labeling and communication, the five excavations and one pot hole are identified as follows:

Tank Pit TP1	two (2)15,000-gallon gasoline USTs in the northeast corner of Site
Tank Pit TP2	one (1) 12,000-gallon diesel UST in the north-central area of Site
Trench PL1	fuel product lines on the Site's east side, extending south from TP1
Trench PL2	diesel product line and vent lines between TP1 and TP2
Trench PL3	diesel product lines in the north-central area, extending north from TP2
Vent Rack VP	north side of building, next between the building and diesel tank pit TP2

For clarity, it is emphasized that the current tank and pipeline removal activities in January 2011 followed 1) temporary abandonment activities performed in July 2008 and also followed 2) previous tank and pipeline removal activities conducted in 1994 which involved entirely different tanks and pipelines. Previous tank removal activities in 1994 were performed on different tanks located generally outside the footprints of the tank pits recently excavated in January 2011. However, one of the 1994 UST remedial excavations was located along the east side of the Site, and it overlapped or adjoined much of Trench PL1 (see Figure 3).

All three underground storage tanks removed in January 2011 had been put into service around October 1994, based on the UST Closure Plan and Underground Storage Tank Application - Form B. All three tanks had been taken temporarily out of service since July 2008, based on the Regulation 8, Rule 40 Notification Form and other available documents.

Gasoline Storage Tanks—Both were the same size (about 15,000 gallons) and of apparent the same kind construction with steel inner tank, fiberglass skin for secondary containment, and interstitial vapor monitoring. Both were manufactured by TRUSCO (now part of CB&I) according to Underground Storage Tank Application - Form B.

The gasoline storage tanks were noted to be in generally good condition without apparent product or vapor in the annular space. The fiberglass skins generally were intact with the exception that the fiberglass near the vapor monitoring probe inlet at the top end of one tank was missing. This break of the fiberglass skin may have occurred during excavation to uncover the tank top but was not observed by the report preparers.

Diesel Storage Tank—The tank was about 12,000-gallons and had a similar fiberglass skin over a steel inner tank, with interstitial vapor monitoring. This tank also was manufactured by TRUSCO according to Underground Storage Tank Application - Form B. The diesel storage tank was noted to be in good condition without apparent product or vapor in the annular space. The fiberglass skin was intact.

Product and Vent Lines—Product and vent lines were observed to be doubled-walled fiberglass. The vent pipe rack is located outside the north side of the existing building. All product lines and vent lines were removed from the Site except for the vent line stubs

under the curb between Tank Pit TP2 and the vent pipe rack. Vent lines were cut at the diesel pit and in a test pothole on the south side of the curb where the horizontal vent lines met the vertical vent pipe sections at the vent pipe rack. The three vent line stubs left in the ground are estimated to be 3-5 feet in length.

3. DESCRIPTIONS OF THE EXCAVATIONS

Excavations in January 2011 were all targeted to remove specified tank and piping systems. Excavations were preceded by concrete saw cutting over the targets.

Six definable excavations included two tank pit excavations, three pipeline trenches, and one pothole near the base of the vent pipe rack. Tank excavations were labeled as TP1 (gasoline USTs) and TP2 (diesel UST). Pipeline excavations were labeled as PL1 (east side), PL2 (between Tank Pits TP1 and TP2), and PL3 (north-central side). The vent pipe rack test pit or "pot hole" was labeled as VP. Excavation footprints, except pothole VP, are shown in Figures 4, 5, and 6.

Gasoline Tank Pit (TP1)—This was one large irregular excavation for the couplet of two tanks as opposed to two separate excavations. It was irregularly shaped, roughly 32 feet (north wall) x 41 feet (east wall) x 38 feet (south wall) x 54 feet (west wall) as measured along the concrete or asphalt surfacing material. See Figure 5.

A narrow mound of pea gravel separated the two tanks. The excavation depth was nominally to ground water or just below. The pit water level was 9.3 feet below grade surface at the time of sampling on January 21, 2011.

The bottoms of the gasoline USTs may have been at about 12 feet bgs; however, as ground water charged the pits, the tanks floated and pea gravel and native soil sloughed from sidewalls into the pit. The photos show tops of the gasoline storage tanks above adjacent grade.

Diesel Tank Pit (**TP2**)—This was a 19-foot wide x 37-foot long rectangular excavation along the north side of the building. Dimensions are as measured along the top of concrete or asphalt surfacing material. The north sidewall was irregular. See Figure 6.

Excavation depth was nominally to ground water or just below. The pit water level was 9.3 feet below grade surface at the time of sampling on January 21, 2011. The bottom of the diesel UST may have been at about 11 feet bgs; however, as ground water charged the pit, the tank floated and pea gravel slumped and native soil sloughed from sidewalls into the pit. The photo shows the top of the diesel storage tank at the time of inerting.

Pipeline Trench PL1—Trench PL1 was a long narrow trench generally 5 feet wide, 164 feet long, and 2.5-3 feet deep, extending south from the gasoline storage tanks. The slope of the pipe was slope down from south to north. See Figure 5.

In Trench PL1, pea gravel backfill was excavated to top-of-pipe. Excavation did not remove pea gravel beneath the pipe or expose native soil. With pea gravel pipe bedding remaining in Trench PL1, the view to native soil was limited to the pot holes where pea gravel was removed with a back hoe.

At the time of sampling, after piping was removed from the trench, a backhoe was used to expose underlying native soil at each sampling location. Test pot holes were excavated an additional 1-1.5 feet with a back hoe to remove slumping pea gravel and expose the surface of native soil at each confirmation sample location. Minor soil staining without petroleum odor or Photo-Ionization Detector (PID) response was noted at location PL1-S1 but not at confirmation sample locations PL1-S2, -S3, -S4, or -S5.

Pipeline Trench PL2—This was a short-run trench between the tank pits. Trench PL2 contained vent pipes from the gasoline USTs in Tank Pit TP1 and also contained a diesel product pipeline from the diesel UST in Tank Pit TP2. Trench PL2 was 3.5 feet wide, 37 feet long, and 3-3.5 feet deep, running east-west between Tank Pits TP1 and TP2. At the both ends of Trench PL2, the trench ran into the tank pit excavations. See Figure 6.

In Trench PL2, pea gravel backfill was excavated to native soil. Excavation removed the pea gravel and stockpiled it next to the trench as shown in the photograph. Visibility of native soil in Trench PL2 was better as most pea gravel in this short run of pipe was removed and stockpiled. At the time of sampling, after piping was removed from the trench, a hand shovel was used to skim off the soil "skin" over each sampling location. Staining was looked for but staining of the native soil was not observed during sampling.

Pipeline Trench PL3— Trench PL3 was a narrow trench generally 3.5 feet wide, 65 feet long, and 2.5-3 feet deep, extending north from the diesel storage tank. The slope of the pipe was slope down from north to south. See Figure 6.

In Trench PL3, pea gravel backfill was excavated to top-of-pipe. Excavation did not remove pea gravel beneath the pipe or expose native soil. With pea gravel pipe bedding in Trench PL3, the view to native soil was limited to the pot holes where pea gravel was removed with a back hoe.

At the time of sampling, after piping was removed from the trench, a backhoe was used to expose underlying native soil at each sampling location. Test pot holes were excavated an additional 1-1.5 feet with a back hoe to remove pea gravel and expose the surface of native soil at each confirmation sample location. Minor soil staining without petroleum odor or PID response was noted at locations PL3-S10 and PL3-S12.

4. VISUAL OBSERVATIONS OF SOIL AND GROUNDWATER

4.1 Observations During Recent Tank and Piping Removal Work

On January 21, 2011, the tank pit sidewalls were observed from grade surface to groundwater surface (9 feet bgs). On January 27, 2011, the shallow pipe trenches were observed from grade surface to about 3 feet bgs at the sampling locations in Trenches PL1 and PL3 and generally along the entire length of Trench PL3.

Gasoline Tanks and Tank Pit (TP1)—There were no obvious signs of tank or line failure. The two gasoline USTs were double-walled tanks with steel inner tanks and fiberglass outer skins. The interstitial space had vapor monitoring. Product piping was double-walled fiberglass. The steel inner tanks were not visible. One tank had lost a piece of the fiberglass along the upper north end of the tank below the bung which was the connection point for vapor monitoring. The fiberglass outer skins otherwise appeared intact.

Gross contamination (*e.g.*, a heavily stained sidewall or backhoe bucket full of odorous soil) was looked for but was not observed during sampling. Staining of the Tank Pit TP1 sidewalls was not apparent above the water line where native soil was visible. At the southeast, south and southwest portions of Tank Pit TP1, there was slumped fill (primarily, pea gravel) so that native soil was not visible generally above the water line along the south and southwest perimeter. Native soil was exposed near the southeast corner of the gasoline storage tank located nearest North Vasco Road using a backhoe. Soil staining was not observed in the Tank Pit TP1 east sidewall or in soil taken off the backhoe bucket.

Views of the Tank Pit TP1 sidewalls were blocked in multiple areas by pea gravel or sloughing native soil. Below the asphalt cover and base rock, to the 9 foot depth to the water surface, there was not an apparent stratification of the soil into layers or horizons. Observation of the stratigraphy was limited to observations of sidewalls above water surface for gross signs of contamination (*e.g.*, staining) and potential conduits.

TP1 North Sidewall The north sidewall was steep, irregular but generally following the curb of the northern driveway at the Site's northern property limit, and avoiding a box storm sewer inlet. The top of north sidewall avoided the box storm sewer inlet by 2 feet. Measured at closest approach, the top of sidewall at the saw cut was located about 12-15 feet south of the northern driveway curb, allowing a one-way lane for traffic access. A temporary chain link fence protected the access lane. Measured at closest approach, the saw cut was about 30 feet south of the center of the off-site trapezoidal drainage ditch. The Tank Pit TP1 north sidewall extended 32 feet at a bearing of approximately 22 degrees north of west, measured from a point 47 feet west of the north Vasco Road west curb and 16 feet south of the northern driveway's north curb.

The view to the Tank Pit TP1 north sidewall was relatively clear with some sloughed material over the sidewall near water surface. There were not any exposed, visible pipes or conduits; obvious roots or root holes; or, obvious permeable backfills (*e.g.*, sand or pea gravel fills). The Tank Pit TP1 north sidewall soil appeared generally uniform, brown or yellowish-brown (10YR 5 / 3) and fine-grained, relatively saturated near water surface and drier and lighter in color/value approaching grade surface.

TP1 East Sidewall The east sidewall was steep, straight and parallel to North Vasco Road and the Site's eastern property limit, near a the northern driveway. The Tank Pit TP1 east sidewall measured from the top of saw cut was located about 47 feet east of the North Vasco Road west curb. The Tank Pit TP1 east sidewall extended 41 feet south from a point 16 feet south of the northern driveway's north curb.

The view to the Tank Pit TP1 east sidewall was relatively clear of sloughed material except near water surface and near the southeastern limit. There were not any exposed, visible pipes or conduits; obvious roots or root holes; or, obvious permeable backfills (e.g., sand or pea gravel fills, brick fragments or other debris). Soil in the Tank Pit TP1 east sidewall appeared generally uniform, brown or yellowish-brown (Munsell 10YR 5 / 3) and fine-grained, relatively saturated and darker in color near water surface and drier and lighter in color/value approaching grade surface.

TP1 South Sidewall The south sidewall was sloped or piled with substantial pea gravel and sloughed soil extending from water surface nearly to top of grade surface. The estimated distance from the south end of tanks to the top of saw cut was 13 feet.

There was a large 4-inch diameter PVC pipe for fire flow exposed relatively close to the surface and extending between the Tank Pit TP1 west sidewall and Tank Pit TP1 east sidewall. The water pipe appeared to be bedded in the pea gravel fill in common with the tank backfill. The water pipe traversed east-west not in-line with Trench PL2 but offset about 3 feet to the south. Direction from the job foreman was to avoid digging around this pipe because it is a critical utility.

The Tank Pit TP1 south sidewall measured from the top of saw cut was extended west from a point located about 47 feet east of the North Vasco Road curb and 57 feet south of the northern driveway north curb. The Tank Pit TP1 south sidewall extended 36 feet west, measured from a point 47 feet west of the north Vasco Road west curb and 57 feet south of the northern driveway north curb.

The view to the Tank Pit TP1 south sidewall was completely blocked by the slumped pea gravel and sloughed backfill material. The water pipe appeared to be located about 2-3 feet below grade surface, which was about 6-7 feet above water surface on January 21, 2011.

TP1 West Sidewall The west sidewall was gradually sloped and highly irregular in shape. At grade surface parts of the concrete cover were saw cut but more of the cover was broken. Over its irregular path, the Tank Pit TP1 west sidewall extended 53 feet between the western ends of the adjacent north and south sidewalls.

The view of the Tank Pit TP1 west sidewall generally was blocked by sloughed material and pea gravel over the sidewall near water surface. There was a limited view of northwest sidewall near the junction with the north sidewall. There, exposed, visible pipes or conduits; obvious roots or root holes; or, obvious permeable backfills (e.g., sand or pea gravel fills) were looked for but were not seen. The appearance

(e.g., color, texture) of the soil where exposed appeared to be continuous with the appearance of the soil in the adjoining north sidewall.

Diesel Tank Pit (**TP2**)—There were no obvious signs of tank or line failure. The single diesel UST was a double-walled tank with steel inner tank and fiberglass outer skin. The interstitial space had vapor monitoring. Product piping was double-walled fiberglass. The steel inner tank was not visible, and the fiberglass outer skin appeared intact.

Gross contamination (*e.g.*, a heavily stained sidewall or backhoe bucket full of odorous soil) was looked for but was not observed during sampling. Staining of the Tank Pit TP2 sidewalls was not apparent above the water line where native soil was visible. Soil staining was observed in soil taken off the backhoe bucket for the purpose of collecting Tank Pit TP2 sidewall soil samples along the tank pit's east side. Similar staining was not observed in soil taken off the backhoe bucket for the purpose of collecting Tank Pit TP2 sidewall soil samples along the tank pit's west side.

Below the asphalt cover and base rock, from 1-2 feet bgs to the water surface, there was not apparent stratification of the soil into layers or horizons. Observation of the stratigraphy was limited to observations of sidewalls above water surface for gross signs of contamination (*e.g.*, staining) and potential conduits.

TP2 North Sidewall The north sidewall was irregular and sloped, and it was not saw cut. The top of north sidewall was generally parallel to the existing building and was located about 20 feet north of the face-of-curb along the north side of the building. The Tank Pit TP2 north sidewall extended 37 feet east-west, as measured at grade surface. Dimensions were considerably reduced at water surface.

The view to the Tank Pit TP2 north sidewall was disrupted by substantial artificial fill from water surface to grade surface. Pipeline Trench PL3 conjoined the Tank Pit TP2 north sidewall Other exposed, visible conduits were shallow, small diameter (less than 2 inches) electrical conduits for the dispensers or lighting. Obvious artificial fill (*e.g.*, pea gravel fill) extended northward from Tank Pit TP2 through Pipeline Trench PL3.

TP2 East Sidewall The Tank Pit TP2 east sidewall measured from the top of saw cut was located about 122 feet east of the North Vasco Road west curb. The Tank Pit TP2 east sidewall extended 19 feet north from the saw cut just outside the curb located along the north side of the building.

The view to the Tank Pit TP2 east sidewall was blocked by slumped pea gravel or sloughed soil near water surface and near the building. Pipeline Trench PL2 conjoined the TP2 east sidewall. Sampled off the bucket the fine-grained soil in the Tank Pit TP2 east sidewall appeared generally uniform, brown or yellowish-brown (Munsell 10YR 5 / 3). Some stained (Munsell 2.5 Y 4.5 / 2) soil was seen in the Tank Pit TP2 east sidewall scraping off the backhoe bucket. This same soil had a PID response of 30 ppmv in open air and 117-184 ppmv in a Ziplok bag. The observed soil staining of soil taken off the bucket for sample TP2-E1 was not observed generally along the east sidewall or adjacent sidewalls above the water line.

TP2 South Sidewall The south sidewall was steep, straight and parallel to the building on the Site. The Tank Pit TP2 south sidewall measured from the top of saw cut was located about 16 feet north of the building face and extended 37 feet between east and west sidewalls.

The view to the Tank Pit TP2 south sidewall was relatively clear of sloughed material except near water surface and near the southeastern limit. Below the 1-2 feet of artificial fills, soil in the TP2 south sidewall appeared generally uniform, brown or yellowish-brown (Munsell 10YR 5 / 3) and fine-grained. There were exposed shallow electrical conduits with obvious permeable backfill (*e.g.*, a pea gravel fill) to 2 feet bgs. One additional conduit remains well above the tank bottom at approximately 2-3 feet bgs. Vent line stubs estimated to be about 3-5 feet in length were left in-place between the Tank Pit TP2 and the vent pipe rack (VP). These stubs are not grouted or capped.

TP2 West Sidewall The Tank Pit TP2 west sidewall was steep and saw cut at the top. Over its straight path, the Tank Pit TP2 west sidewall extended about 19 feet from the south sidewall saw cut.

The view of the Tank Pit TP2 west sidewall generally was clear from surface to water surface. The appearance (e.g., color, texture) of the soil where exposed appeared to be yellowish-brown (10 YR 5 / 3), fine-grained, and continuous with the appearance of the soil in the adjoining south sidewall. Conduits or aggregate fills were not observed in the Tank Pit TP2 west sidewall.

Product and Vent Pipe Trenches (PL1, PL2, and PL3)— Pipeline Trenches PL1 and PL3 had substantial pea gravel in the bottoms and slumping of pea gravel from the trench sides into trench bottoms. Test pot holes were excavated an additional 1-1.5 feet with a backhoe to remove pea gravel and expose the surface of native soil on trench bottom at each of the confirmation sample locations. Gross contamination (*e.g.*, a heavily stained backfill or exposed native soil) was looked for but was not observed during sampling. Minor soil staining without petroleum odor or PID response was noted at locations PL1-S1, PL3-S10, and PL3-S12. Visibility of native soil in Pipeline Trench PL2 was better as most pea gravel in this short run of diesel product piping and vent lines was removed and stockpiled. Staining was looked for but staining of the native soil was not observed in Pipeline Trench PL2.

4.2 Limitations to Observations Made During January 2011

The following limitations prevailed during observations in January 2011:

- 1. With water around the perimeter of the tank pit, visibility was limited to the sidewalls above the water line. Views of tank pit sidewalls were from water surface at 9.3 feet bgs to grade surface.
- 2. In several instances, slumped pea gravel and/or sloughing soil partially blocked the view of sidewalls especially near the water surface. Site soils from grade surface to 9 feet bgs, or deeper, are fine-grained soils with generally uniform color and composition or subtle composition and color changes (see Appendix M).

- 3. Visual observations of the tank pit sidewall soil to the 9-foot depth bgs could not discern gradual increasing sand content (decreasing clay content) with depth. A variety of soil boring logs and cone penetration test soundings from work performed by others during 1995-2010 were reviewed (see Appendix M). Cone penetrometer test soundings and soil boring logs for the northern portion of the Site show a subtle transition from sandy clay, silty clay, or clayey silt to fine-grained clayey sand in the interval 4-12 feet bgs (see Section 4.3 and Appendix M). The transition would not necessarily be obvious from the visual observations of the pits sidewalls made on January 21, 2011.
- 4. Scum or sheen was noted on the water surface in both Tank Pits TP1 and TP2. The Livermore-Pleasanton Fire Department Inspector noted sheen on the water surface in both pits (see Appendix I); however, the tank pits were not de-watered. Observed conditions, therefore, are not necessarily representative of formation water.
- 5. Observations of the trench bottoms and sidewalls of Pipeline Trenches PL1 and PL3 were limited by presence of pea gravel fill. Native soil could only be observed at the pothole locations where pea gravel was removed using a backhoe to expose native soil.

4.3 Observations Made During Previous Investigations and Closure Review

1995-1996 H2OGEOL performed soil sampling, well installation and initial groundwater monitoring on the Site in 1995. Logs of borings for wells MW-1, MW-2, and MW-3 are provided in Appendix M. Figure 3 shows the locations of the monitoring wells.

Well monitoring demonstrated a consistent trend in groundwater potentiometric surface slope down toward the west northwest, 60 degrees west of north (H2OGEOL, 1996). Soil boring logs from 1995 show the top of the transition from clay and silt to clayey sand at 4-7 feet bgs, with well-graded, clayey sand generally in the interval from 7-13 feet bgs (Alameda County, 1998; H2OGEOL, 1995). Logs of soil borings for MW-1 and MW-2 showed fine-grain sandy clay from surface to 7 feet bgs or clayey sand in the interval 7-12 feet bgs. Soil color was log as Munsell 10YR 3 /4 and 10YR 5 / 6 in the upper interval. The transition to fine-grained clayey sandy shown in the boring log for MW-3 was shallower, at 4 feet bgs with the note "decreasing clay with depth at 6 feet bgs (H2OGEOL, 1995).

The log of the soil boring for MW-1 also noted greenish-gray soil color and trace gravel at 7 feet bgs (H2OGEOL, 1995). The "5G" 5 / 1 noted probably meant "5Y" 5 / 1. MW-1 was located close to the former diesel tank removed in 1994, and the greenish-gray could have been indicative of staining caused by diesel fuel. Typical soil color at equal depth (1-9 feet bgs) has been logged as Munsell 10YR 3 /4, 10 YR 5 / 3, and 10YR 5 / 6. Faint diesel odor was noted (H2OGEOL, 1995).

1998 According to the Case Closure Summary for closed case RO0000410, the Altamont Creek-Arroyo Seco Piedmont was a natural drainageway, converted into an unlined trapezoidal flood control channel. First groundwater encountered on the Site at 9 feet bgs develops from the clayey sand of the shallow part of the Altamont Creek alluvial fan aquifer. Well MW-1, the former diesel UST removal and remedial excavation in October 1994, the northern end of Trench PL3, and Tank Pit TP1 were all located adjacent to the Altamont

Creek-Arroyo Seco Piedmont. The unlined drainage ditch, or flood control channel, are shown in Figure 2. Locations of tank and piping system removal work in 1994 and 2011 are shown in relation to the unlined channel in Figure 3.

2006 In June 2006 ENGEO drilled and logged a soil boring (labeled as "1-B1" in Figure 3) located just west of diesel tank pit TP2. Bore hole 1-B1, or 01-B01, was located in a parking stall at the northwest corner of the building. Later, in July 2006, Gregg In Situ Inc. performed cone penetration test soundings across the Site. Tests locations 1-CPT5 and 1-CPT6 were located close to the flood control channel. CPT-5 was located near the northern end of Pipeline Trench PL3 and 1994 diesel UST excavation area. See Figure 3.

The results of the Gregg soundings are presented in Appendix C of ENGEO's Geotechnical Exploration report dated October 2010. The log of boring 1-B1 also is presented in Appendix C of ENGEO's report (ENGEO, 2010b). ENGEO's log of boring 1-B1 indicates silty clay to a depth of 7 ft bgs and then a sequence of clayey sand, sandy clay, clayey sand, and silty sand from 7 to 15 feet bgs. The Gregg cone penetration test soundings show a transition from clayey silt and silt above 9 feet bgs to silty sand and sand at 9-12 feet bgs (ENGEO, 2010b).

2009 Krazan & Associates, Inc. in 2009 reported that soils on the Site consist of "fine-grained soils including clays, silts, and clayey sand" from surface to 20 feet bgs. The Krazan soil and groundwater investigation (the "Krazan SWI") is mentioned here because it addresses the two tank areas and two dispenser areas with product piping which were excavated in January 2011. See Figure 3 for the Krazan SWI bore hole locations.

Locations of Krazan bore holes in relation to the tank and piping systems removed in January 2011 are described as follow:

- Bore holes B-6 and B-11 bracketed the pair of gasoline USTs in a longitudinal orientation, at north and south ends of the side-by-side gasoline USTs.
- Bore holes B-3 and B-4 bracketed the single diesel UST longitudinally or end-to-end.
- Bore holes B-1, B-2, and B-5 bracketed the former north-central diesel dispensers and the underground pipelines removed in January 2011.
- Bore holes B-12, B-13, B-14, and B-15 bracketed the former east fuel dispensers and the underground pipelines removed in January 2011.

For the Krazan SWI, soil samples were collected generally at 10, 15 or 20 feet bgs and none was collected above 10 feet bgs. In the soil samples collected, maximum diesel concentrations were reported for soil samples collected from bore hole B-1 at 10 feet bgs (11 mg/Kg) and 15 feet bgs (6.3 mg/Kg). Bore hole B-1 was located at the former north-central diesel dispensers. Soil samples from B-1 were collected at depths that are about 7-12 feet below the depth of the diesel product piping removed in January 2011(Krazan, 2009).

2010 - 2011 ENGEO in 2010 and 2011 reported that the Site's soils consist of "fill over interbedded silty clay, sandy clay, clayey sand and silty sand with various amounts of gravel." (ENGEO, 2011 and 2010a). ENGEO's description is based on an extensive geotechnical exploration of the Site including soil borings and cone penetration test soundings in 2010. ENGEO's description is consistent with the description in the Krazan SWI and, additionally, duly notes the presence of gravel and artificial fill at variable depths as do the logs prepared by H2OGEOL (H2OGEOL, 1995).

5. SAMPLING AND TESTING METHODS

5.1 Soil Sampling Methods

A total of 23 soil samples were collected, including four (4) from the gasoline storage tank pit (TP1), four (4) from the diesel tank pit (TP2), twelve (12) from the trenches, one (1) from the base of the vent pipe rack below elbow depth (VP-S13), and two (2) from soil stockpiles (STK-PL2 and STK-PL3). Sample locations are shown in Figures 3, 4, and 5.

Trench Bottom Soil Sampling—Each soil sample of in-place soil (*e.g.*, in a pipeline trench) was collected using a slide hammer and sample spoon loaded with a new 2-inch diameter by 6-inch long brass "sleeve" or "liner." In Pipeline Trenches PL1 and PL3, which had substantial pea gravel in the bottoms and sloughing of pea gravel from the trench sides into trench bottoms, the backhoe operator was directed by the sampler to clear each sampling area to native soil. After the native soil surface was exposed, the trench was accessed for sampling using a slide hammer and loaded spoon.

Tank Pit Bottom Soil Sampling—Samples of tank pit bottom soil were not collected as both Tanks Pits TP1 and TP2 charged with ground water.

Tank Pit Sidewall Soil Sampling—Tank pit soil samples were collected off the backhoe bucket with effort to 1) obtain sample from just above the water surface and 2) obtain sample from the side tooth of the backhoe bucket used to scrape the sidewall of the tank pit. The sampler directed the backhoe operator using hand signals to achieve these two objectives.

The preferred method of collecting a soil sample off-the-bucket was to use the slide hammer and samples spoon loaded with a new 2-inch diameter by 6-inch long brass sleeve as described above. Sometimes soil in a backhoe bucket is so "loose" that retrieval of a sample fails. In this case, samples are hand-packed into a brass liner prepared with Teflon sheet and a plastic cap at one end. After filling, the sample was then prepared with Teflon sheet and plastic cap over the remaining open end of the liner.

5.2 Vapor Monitoring Method

A photo-ionization detector (PID) was used to check soil off the bucket, exposed in-pace trench soil, and soil stockpiles for volatile vapors. The PIDs uses during sampling on January 21 and 27, 2011, were calibrated in Concord and brought to the Site with a certified isobutylene span gas. On January 21, 2011, one PID response was noted near the east end of the diesel tank pit (TP2). The PID response was 30 ppmv off the bucket (TP2-E2) and 117-184 ppmv in a Ziplok plastic bag containing a handful of the soil. The PID on January 21, 2011, was a Thermo Analytical 580B with a 10.6 eV lamp (Environmental Instruments ID#187). The PID on January 27, 2011, was an RAE 2000 with a 10.6 eV lamp (Environmental Instruments ID#236). Both PIDs were calibrated to 100 ppmv isobutylene.

The PID response for soil collected off the bucket from the east end of Tank Pit TP2 was the highest PID response during the sampling work. There were no similar PID responses at the other confirmation soil sampling locations. For soil sampled off the bucket from sidewall

locations around Tank Pit TP1, PID readings were zero. Some transient PID responses were noted which were generally 1-10 ppmv, and these were found to be caused by nearby operating heavy equipment.

Cleaning—All brass liners were new, and were washed, rinsed, and air dried before being brought to the Site. The spoon itself was wiped, rinsed with distilled water, and air dried asneeded between samples to avoid "locking" of the brass sleeves in the spoon. The level of spoon cleaning and rinsing between tanks pits and trenches was higher to avoid potential cross-contamination from residual soil on the cutting edge of the spoon.

Soil Sample Labeling and Chain-of-Custody—Soil samples were labeled in the field at the time of collection with a Sanford fine-point "Sharpie." The Site Address, Sample ID, date, and time of collection were noted on the brass sleeve. The Sample ID was additional written on one plastic end cap. Pre-written labels were not used. Each sample Chain-of-Custody was hand-written by the sampler while on Site, using a black pen and transcribing from the labeled sample containers.

Sample Delivery—After capping with Teflon sheet and plastic end caps and labeling, soil samples were placed in on ice with abundant water ice. Samples were delivered by the sampler with a completed chain-of-custody form, within approximately 2-4 hours of sample collection. Samples did not leave the custody of the sampler until delivery at the laboratory in Pittsburg, California.

Laboratory Testing Protocols—Laboratory testing followed the *Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites* (RWQCB, 2004, 1990) as instructed in the field by the Livermore-Pleasanton Fire Department inspector, Ms. Danielle Stefani. The appropriateness of the Tri-Regional Board Staff Recommendations (Appendix A, Table #2) was confirmed specifically by telephone communication with Mr. Jerry Wickham, Alameda County DHS. U.S. EPA Method 8260B was run for specified fuel oxygenates and additives listed in the U.S. EPA Method 8260B and not full-method list of volatile organic compounds (VOCs) or halogenated volatile organic compounds (HVOCs). This was confirmed with J. Wickham in January 2011 in advance of the laboratory testing. Tri-Regional Board Staff Recommendations testing protocols were communicated to McCampbell Analytical, Inc., by email and attachment to the Sample Chain-of-Custody.

Samples collected from the gasoline tank pit (TP1) were tested by the laboratory for gasoline, volatile aromatic hydrocarbons (BTEX), fuel oxygenates and additives. Samples collected from the diesel tank pit (TP2) were analyzed for diesel and BTEX. For the pipeline trenches, laboratory analyzed soil samples as follows:

- Soil samples collected from Trench PL1 were analyzed for gasoline, BTEX, fuel oxygenates and additives, and diesel.
- The one soil sample (VP-S13) collected from the foot of the vent pipe rack was tested for gasoline, BTEX, fuel oxygenates and additives, and diesel.
- Soil samples collected from Trenches PL2 and PL3 were analyzed for BTEX and diesel.

Trench PL2 contained a diesel product line and vent lines. This was the trench between tank pits. There were no gasoline product lines in Trench PL2 or west of the gasoline tank pit (TP1). Soil samples collected from the Trench PL2, therefore, were tested by the laboratory for diesel and BTEX but were not tested for gasoline.

McCampbell Analytical, Inc., (Pittsburg, CA), performed all of the analytical testing for the tank and piping system removal. McCampbell Analytical, Inc., is a California DHS-certified test laboratory (ELAP Certification #1644) and is specifically certified to perform the testing by the U.S. EPA analytical methods reported herein.

5.3 Pit Water Sampling Method

Pit Water Samples—Two tank pit water samples were collected, one each from Tank Pit TP1 and Tank Pit TP2, on January 21, 2011. Water samples were collected using new polyethylene bailers with bottom emptying tubes, and new nylon line, one set-up for each tank pit. A 1-Liter amber glass bottle was filled with water collected by bailing from Tank Pit TP2. Triplicate 40-ml VOAs were filled with water collected by bailing from Tank Pit TP1. Ms. Stefani observed and confirmed presence of a meniscus and absence of headspace or air bubbles in each of the three VOAs. Pit water samples were labeled and placed in an ice chest with abundant water ice. Pit water samples were delivered by the sampler with a completed chain-of-custody form, within 4 hours of sample collection.

Pit water samples were collected from the pits by casting a bailer on line and trawling to retrieve a sample. The bailer was observed to fill as it tilted about 15 degrees from horizontal and partially submerged at the end (bottom-emptying devise end). Neither pit was de-watered and allowed to re-charge before sampling. The water surface was noted in both tank pits as having floating scum. D. Stefani noted sheen in both Tank Pits TP1 and TP2 (see Appendix I). The laboratory noted "immiscible liquid/product sheen" in the water sample in the 1-L amber bottle which had been collected from Tank Pit TP2. M. Papineau noted the sheen on the Tank Pit TP1 water surface was limited to the edge of the pit at the water line. The water surface in Tank Pit TP2 was noted by M. Papineau as having scum but not obvious sheen.

5.4 Sampling Limitations and Exceptions

The following limitations and exceptions are noted:

- 1. A slide hammer and spoon loaded with a clean brass liner generally was used to obtain driven soil samples. Wherever a soil sample was not retrieved, because the soil medium being sampled was loose, for example, soils was packed into a brass liner capped on one end and then was quickly capped on the other end. Pipeline trenches were sampled in the former manner. Stockpiles (STK-PL2 and STK-PL3), consisting mainly of pea gravel, were sampled in the latter manner.
- 2. Soil samples are believed by sampler to be representative of soil at the given location and depth at the time of sampling. Samples locations shown in Figures 3, 4, 5, and 6 are approximate, and sample depths included in the chart in Figure 4 are approximate. Measurements were made using a steel measuring tape.

- 3. Tank pit bottoms, or sidewalls at the equivalent depth horizon as tank pit bottoms, could not be sampled owing to the presence of groundwater in both tank pits. An effort was made to use the backhoe bucket to scrape soil samples from the sidewalls near the sidewall/water interface.
- 4. Tank Pit TP1's south sidewall was generally not accessed for sampling except at the southeast corner. There, native soil was exposed near the southeast corner of the former gasoline storage tank located nearest North Vasco Road using a backhoe. Owing to presence of a fire service PVC water pipeline and substantial pea gravel fill under the water pipeline, removing pea gravel tended to undermine the pipe, which deflected as pea gravel slumped into the open tank pit (see Photo, page 27). In the southeast, south and southwest portions of Tank Pit TP1, there were substantial volumes of slumped pea gravel so that native soil was not generally visible above the water line along the south and southwest perimeter. Obvious soil staining was not observed in the sidewalls where they could be seen from the perimeter or in soil collected off the backhoe bucket at the locations accessed for sampling.
- 5. Tank pits charged with ground water which rose to the depth of 9.3 feet below grade surface. The tank pits were not de-watered and allowed to recharge with formation water. Pit water samples, therefore, are not considered to be representative of formation water from the adjacent ground water bearing clayey sands.
- 6. Laboratory analytical results for the water sample collected from Tank Pit TP2 are considered qualitative in view of the presence of immiscible liquid/product sheen in the sample. The water sample bailed from Tank Pit TP2 was poured into in a 1-L amber bottle with acid preservative and Teflon-lined screw cap. The water sample was poured from a new polyethylene monitoring well bailer. VOAs of pit water were not collected from Tank Pit TP2, as necessary for laboratory determination of BTEX. The laboratory was directed to perform one BTEX analysis of Tank Pit TP2 water drawn from the 1-L amber bottle.

6. INTERIM REMEDIAL MEASURES

Gross contamination (*e.g.*, a heavily stained sidewall, a backhoe bucket full of odorous soil, or a stockpile with odor and elevated PID reading) was not observed during sampling. Excavated pea gravel was placed back into the tank pits and pipe trenches. Clean make-up fill was placed in the tank pits and was compacted in uniform level lifts. Interim remedial measures such as over-excavation, for example, were not performed. Soil was not removed from the Site for off-site disposal.

In January 2011, in the one instance of a positive PID response (30 ppmv in the bucket and 117-184 ppmv of the same soil placed into in a Ziplok plastic bag), PID response did correspond to visible staining noted as 2.5Y 4.5/2 (grayish-brown). Typical soil color at equal depth (1-9 feet bgs) has been logged as Munsell 10YR 3 / 4, 10YR 5 / 3, and 10YR 5 / 6. The soil sample showing positive PID response was collected off the backhoe bucket from the east end of Tank Pit TP2. The proportion of stained soil in the bucket was limited. Signs of substantial petroleum impact such as soil visible staining in the Tank Pit TP2 east sidewall and conduits below 2-3 feet bgs were not observed. Since interim remedial actions were not among the Site owner's objectives for the work, and in the absence of obvious petroleum-affected soil in the Tank Pit TP2 east sidewall above the water surface, remedial excavation was not performed by the contractor.

In January 2011, three instances of soil staining in the pipeline trenches were observed. One was at sample location PL1-S1 at the south end of Pipeline Trench PL1. The other two instances were at sample location PL3-S10 and PL3-S12. In Trench PL3, staining was not observed at adjacent sample locations PL3-S9 and PL3-S11. As stated in Section 4.2, observations of the pipeline trenches, except PL2, were limited by presence of unexcavated pea gravel fill. In Trench PL3, in which staining was identified in two potholes (PL3-S10 and PL3-S12), the laboratory reported diesel concentrations uniformly above 1,000 mg/Kg in consecutive adjacent locations PL3- S10, PL3-S11, and PL3-S12. Pipeline Trench PL3 was not over-excavated in January 2011.

Interim groundwater remedial measures also were not implemented. Ground water observed in the tank pits had visible scum and/or sheen. Ms. Danielle Stefani noted minor sheen on the water surface in both tank pits (Stefani, 2011). Groundwater in the tank pits, which may have included perched water as well as formation water, was sampled as-is. The tank pits were not de-watered and allowed to recharge. The tank pit water samples were poorer in quality than counterparts collected from a de-watered, recharged tank pit. The corresponding laboratory test results for the tank pit water samples, therefore, are not necessarily representative of formation water.

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TABLE 1
Laboratory Results for Soil and Water Samples
1000 North Vasco Road in Livermore, CA

Tank Pit Sidewall and Pipeline Trench Bottom Soil Samples	Soil	Sample	Gasoline	Diesel	Volatile Organic Aromatics (mg/Kg)			
TP1-E1	Sample ID	Depth (Feet)	GRO (mg/Kg)	DRO (mg/Kg)	Benzene	Toluene	Ethylbenzene	Xylenes
TP1-E2		Tank	Rit Sidewa	ll and Pipeli	ne Trench E	Bottom Soil	Samples	
TP1-C1 9.3 ND ND ND ND ND ND	TP1-E1	9.3	ND		ND	ND	ND	ND
TP1-W1 9.3 ND ND ND ND ND ND	:						ND	ND
TP2-E1	TP1-C1	9.3	ND		ND	ND	ND	ND
TP2-E2	TP1-W1	9.3	ND		ND	ND	ND	ND
TP2-W1 9.3	TP2-E1	9.3		ND	ND	ND	ND	ND
TP2-W2	TP2-E2	9.3		ND	ND	ND	ND	ND
PL1-S1 3.4 2.9 4.0 ND ND ND ND ND PL1-S2 2.8 ND ND ND ND ND ND ND N	TP2-W1	9.3		ND	ND	ND	ND	ND
PL1-S2 2.8	TP2-W2	9.3		ND	ND	ND	ND	ND
PL1-S3 2.7 ND 1.5 ND ND ND ND ND	PL1-S1	3.4	2.9	4.0	ND	ND	ND	ND
PL1-S4 3.0 ND 1.3 ND ND ND ND ND ND ND N	PL1-S2	2.8	ND	ND	ND	ND	ND	ND
PL1-S5 3.0 ND ND ND ND ND ND ND N	PL1-S3	2.7	ND	1.5	ND	ND	ND	ND
PL2-S6 3.3	PL1-S4	3.0	ND	1.3	ND	ND	ND	ND
PL2-S7 3.7	PL1-S5	3.0	ND	ND	ND	ND	ND	ND
PL2-S8 3.8 ND ND ND ND ND ND N	PL2-S6			ND	ND	ND	ND	ND
PL3-S9 3.2		3.7				ND	<u> </u>	
PL3-S10 3.2							<u> </u>	
PL3-S11 3.0 3,200 <0.05 <0.05 <0.05 <0.05 <0.05 PL3-S12 2.8 2,700 <0.05 <0.05 <0.05 <0.05 <0.05 VP-S13 2.7 ND ND ND ND ND ND ND N		3.2		ND	ND	ND	ND	ND
PL3-S12 2.8 2,700 <0.05 <0.05 <0.05 <0.05 <0.05 VP-S13 2.7 ND ND ND ND ND ND ND Reporting Limit 1.0 1.0 0.005 0.005 0.005 0.005 Stockpile Samples	:					Y-	·	·
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STK-PL2 1.2 ND ND ND ND ND ND STK-PL3 380 ND ND ND ND ND ND ND N	-		GRO	DRO			•	_
STK-PL3					ND	ND	ND	ND
Reporting Limit 1.0 0.005 0.005 0.005 0.005 0.005 Tank Pit Water Samples						Y-	<u></u>	
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TP1-Gas-W 240 ND 7.6 ^b 4.6 ^b 41 ^b	-		GRO	DRO		(μg/L)	(μ g/L)	(μ g/L)
TP2-Diesel-W 540,000 -12 800 100 1500			240		·	1	4.6 ^b	41 ^b
	TP2-Diesel-W			540,000	<12	800	190	1,500
Reporting Limit 50 <10,000 0.5 0.5 0.5 0.5			50	<10,000	0.5	0.5	0.5	0.5

NOTES:

- 1. Reporting limits are as listed unless otherwise indicated for a particular sample as less than, "<," limit quantity.
- 2. Water sample TP1-Gas-W also had concentrations of TBA at 5.0 μ g/L and MtBE at 0.98 μ g/L.
- 3. The tank pits were not de-watered and allowed to recharge. Fire Department Inspector noted sheen on water surface in both tank pits. See Appendix I.
- 4. Analytical results with superscript "b" for water sample TP1-Gas-W are results by U.S. EPA Method 8260B. Similar results were reported for U.S. EPA Method 8021B/8015Bm.

SOURCE: McCampbell Analytical, 2011. See Appendices K and L for signed lab reports and chromatograms.

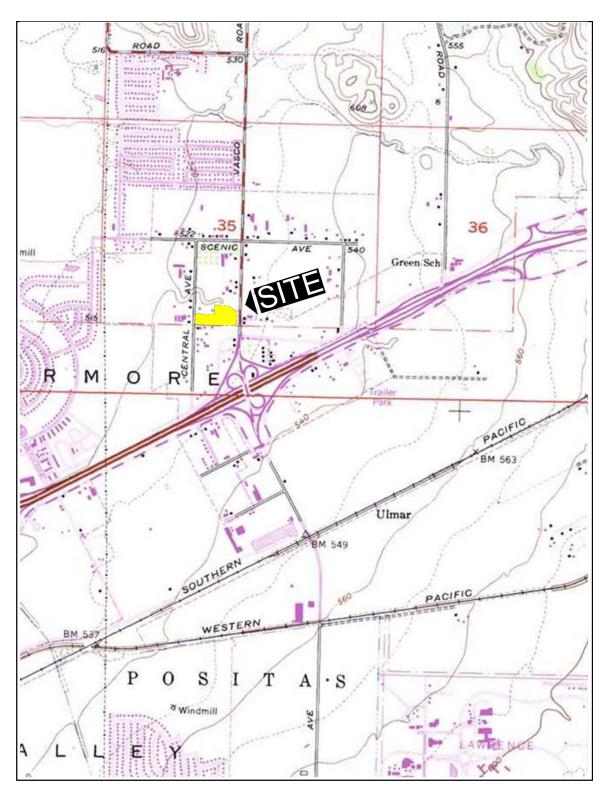






FIGURE 1
Site Location Map
1000 N. Vasco Road
Livermore, California



MAP KEY

- 0 Subject Site is APN 99B-5075-6-8 (1000 N. Vasco Road)
- 1 Los Primos Mexican restaurant, former Magic Car Wash & Gas Station (1025 N. Vasco Rd.)
- 2 Alameda County-owned parcel, APN 99B-5075-6-10, a drainage channel
- 3 Quik Stop gas and store (951 N. Vasco Rd.)
- 4 Fountainhead Montessori School (949 Central Ave.)
- 5 Valero service station (816 N. Vasco Rd.)
- 6 Northfront Park



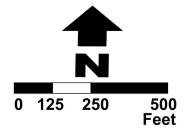
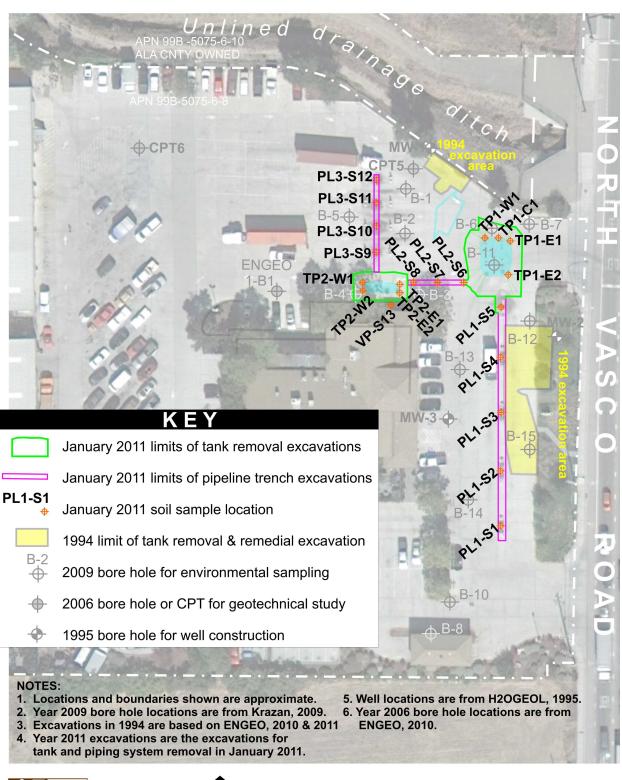


FIGURE 2
Neighborhood of the Site
1000 N. Vasco Road
Livermore, California





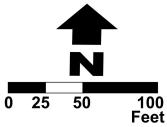
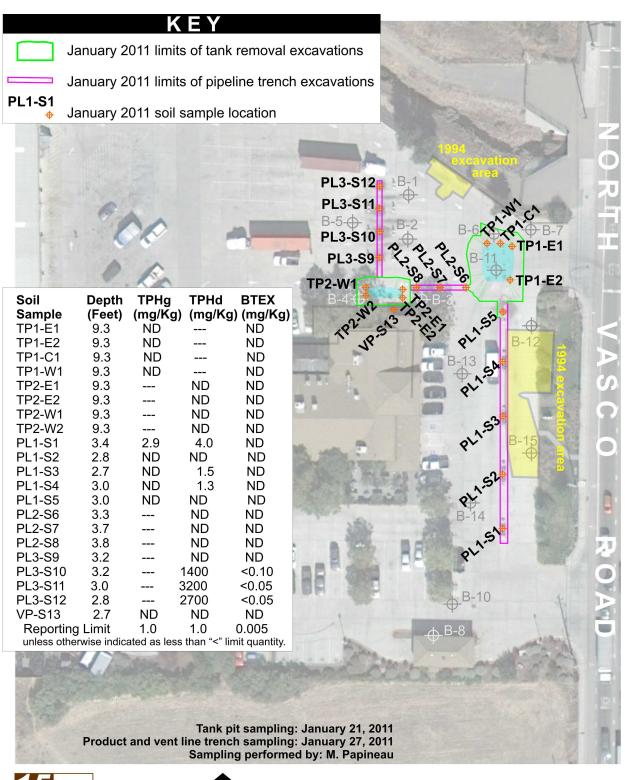


FIGURE 3
Current and Previous Work
at 1000 N. Vasco Road
Livermore, California





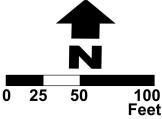
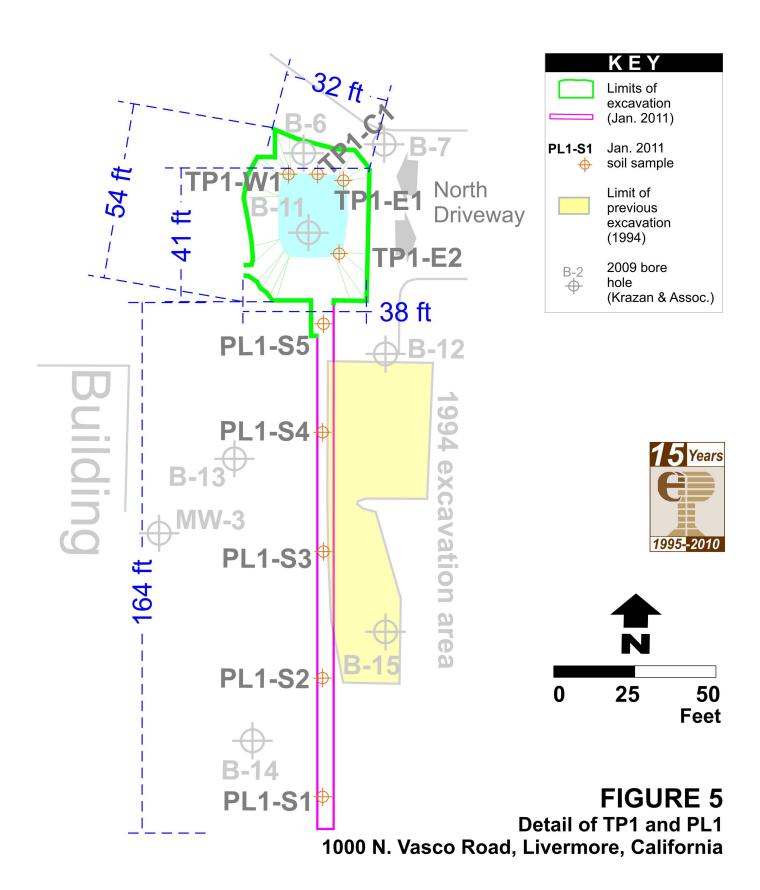
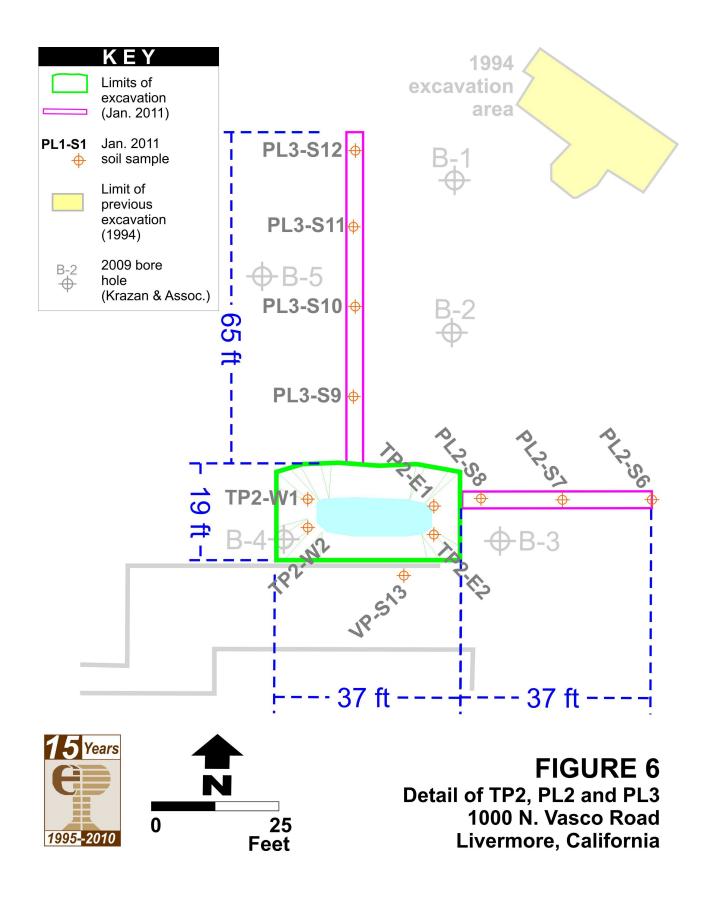


FIGURE 4
2011 Tank and Line Removal
1000 N. Vasco Road
Livermore, California





Gasoline Storage Tanks





Tank Pit TP1 Gasoline







Tank Pit TP2 and Diesel Storage Tank

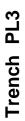






Trench PL1









Trench PL3

APPENDICES

- A. Underground Tank Closure Plan
- B. BAAQMD Regulation 8, Rule 40 Notification
- C. City of Livermore Demolition Permit No. DEM10017
- D. Receipt for Dry Ice
- E. Uniform Hazardous Waste Manifests for Tanks
- F. Certificates of Tank Destruction
- G. Republic Services Company Tag for Receipt of Piping for Landfill Disposal
- H. Republic Services Company Waste Profile for Fiberglass Piping
- I. Livermore-Pleasanton Fire Department Inspection Report #1
- J. Livermore–Pleasanton Fire Department Inspection Report #2
- K. Signed Laboratory Reports and Sample Chains-of Custody
- L. Chromatograms for Pit Water Samples
- M. Logs of Borings and Cone Penetration Test Soundings

APPENDIX A UNDERGROUND TANK CLOSURE PLAN

d-1) gas; (-12 Dedsell

Livermore-Pleasanton Fire Department

3560 Nevada St., Pleasanton, 94566 (925) 454-2362 Fax; (925) 454-2367

UNDERGROUND TANK CLOSURE PLAN

//	
1. Name of Business: MACEDO PROPERTY Site Address: 1000 Nolth VASCORD Tank Owner/Operator Contact Person: Scott MENALD EPA ID#:	IVERMOLE (* 1945] Phone: 925 229-8753
2. Property Owner: ARBOR DEVELOPMENT Owner Address: 3650 MOUNT DIABLO X LASAGETTE CA 94599	BC# 200
3. Tank Removal Contractor: R&B EQUIPMENT	Departme
Address: 22/5 1) ann 1 / Aug Phone: 5/0 782-372/ License Type: A a C T 6-Ven	The Bepartment information in the state of t
4. Required attachments:	ons are acceptable ified or shall be distributed on this changed, modified or shall be distributed on the changes.
Worker's Compensation Certificate copposition in the Plot Plan 3 Copposition from the State "Facility" and "Tank" forms (one five page in Tank") Pleasanton: Check payable to the City of Pleasanton Livermore: Check payable to the City of Pleasanton or recommendation of Business License MEED TANK INFORMATION 5. Tanks to be closed:	Fire Marshad Plan Marshal laws, order does with a pproved plan Marshal laws, order does with the provent the proposed with the provent of the provent on plans: It is a proved plan Marshal laws, order to prove the provent on plans: Reviewed By All Control of the provent of t
1	rials of ruction Age of Tank
1 15000 GAS FIBERS	CLASS /GVES
2 15000 GAS FIBERG	
3 12000 DIESEL FIRSE	
4	
5	
6	

6. Total number of underground tanks at this facility (prior to this closure):

7. Length of piping being closed under this plan:

_									
fanagement (of Tanl	<u>(8</u>							
cessible associa oproved alternati sponsibility to b	ted pipin ve methoring a wo I from th	g must the od used. I orking com e ground u	n be rei naccess ibustibl inless tl	moved. I sible pipin e gas ind he LEL is	Piping mu ng must b icator on	ist be di se perma site to v	spose mentl erify	d of as has y plugged that the ta	to the tanks. All zardous waste unless . It is the contractor's nk is inert. Tanks meter must be
A su Cali	pplement ornia Co		ıst be a ulations	ttached to	this plai	n demon			e requirements of nks, Sections 67383.1
Dry i	ice must		in the ta	ank in an	amount r			_	ls per 1000 gallons of by the Fire
Methods to be	used for	rendering	g tank(s) inert:					
12-	Dry ice (2	(See attac 22.2 pound	ds per 1	000 gallo	ons tank v	volume)			
L. L. 1					. ,				
			<u>sis</u>						
ample Collec	tion an		<u>sis</u>						
ample Collec 0. Sample An	tion an			CL Hydro	O&G	EPA 8270	рН	MTBE 8260	Other (specify)
ample Collec O. Sample An TPHG	tion an	d Analy			O&G	1	pН		
TPHG Cank 1 Cank 2	tion an	d Analy			O&G	1	pН		
TPHG Cank 1 Cank 2 Cank 3	tion an	d Analy			O&G	1	pH		
TPHG ank 1 × ank 2 × ank 3 × ank 4	tion an	d Analy	Lead		O&G	1	pН		
Sample An TPHG nk 1 nk 2 nk 3 nk 4	tion an	d Analy	Lead		O&G	1	pH		
TPHG Tank 1 Tank 2 Tank 3 Tank 4 Tank 5 Tank 5	alysis TPH D X ust be co	BTX&E	Lead X every:	Hydro 20 linear is preser	feet of pi	ping that	at is re	emoved. A	(specify) An underground water
TPHG Tank 1 Tank 2 Tank 3 Tank 4 Tank 5 Tank 5 Tank 5 Tank 5 Tank 6 Tank 1 Tank 1 Tank 2 Tank 2 Tank 3 Tank 4 Tank 5	alysis TPH D with the collected if and of the st be place.	BTX&E Begin and the second of	Lead Y every 2 d water	Hydro 20 linear is presect in native	feet of pi nt in the c e soil (on must be c	ping the excavati	at is reon. Te for the	emoved. A wo soil satanks less	(specify) An underground water amples must be

CM.3.5 UST Closure Plan Rev. Date: 10/8/2010

no

Yes

If yes, explain reasoning:

Please be aware that excavated soil may not be returned to the excavation without prior approval.

<u>Ar</u>	DITIONAL CONTRACTOR/CONSULTANT INFORMATION:
13.	Product/Residual Sludge/Rinsate Transporter 800) 4(99 - 3676
	Name: ACLEAN WATER EPAID#: CALOUO 317320
	Hauler License #: 621131 License Exp. Date:
	Address: 33204 WESTARA AVE
	Name: #CLEAN WATEN EPA ID#: CACOUO 317320 Hauler License #: 621131 License Exp. Date: Address: 33204 WESTERN AVE Union City, CA 94587
14.	Product/Residual Sludge/Rinsate Disposal Site
	Name: CLEANWATER EPAID#: CALOUO 317320 Address:
15.	Tank & Piping Transporter
	Name: CF / EPA ID#: CF 1/009 966 392
	Address: 250 PARR RCLD
	Name: <u>CCi</u> EPA ID#: <u>CA 0009 466 392</u> Address: <u>250 PANR 19CV0</u> RICHMOND CA 9480(
	Tank & Piping Disposal Site
	Name: Z C EPA ID#:
	Name: <u>EPAID#:</u> Address: <u>(SAME as ABove)</u>
17.	Sample Collector
	Name MANK THICHUA EPAID# CACOOL 59254
	Address: 0 0 1 0 1/11 0 0 0
	2215 HONN PHYWAND CH
	Sample Collector Name: MANK PAPCNUA EPAID#: CACOO! 59234 Address: 2215 DUNN AD HAYWAND CA 94545
1 &	Laboratory
10.	TOCT No. 2000
	Name: FPA ID#:
	Address:
	Name: TEST AMERICA EPAID#: Address: PLEASANTON, CA

CLOSURE REPORT:

A final closure report must be submitted within 60 days of tank closure which describes the closure activities, presents the sample analysis results including copies of lab reports and chain of custody, and documents the final disposal of waste materials, tanks, and piping including one copy of the waste manifests.

Questions for the Fire Department can be addressed to Paul Smith (925-454-2339, <u>psmith@lpfire.org</u>), John Rigter (925-454-2337, <u>jrigter@lpfire.org</u>), Danielle Stefani (925-454-2338, <u>dstefani@lpfire.org</u>)

APPENDIX B

BAAQMD REGULATION 8, RULE 40 NOTIFICATION



Inv Req Date:

Ву:

Fwd to Supv.

Date:

By:



Notification Form

Regulation 8 Rule 40

REMOVAL OF UNDERGROUND STORAGE TANKS OR TREATMENT OF CONTAMINATED SOIL
SITE OF ACTIVITY
Site Address: 1000 N. VASCOR) City & Zip: LIVEPROLE 995// Site#:
Specific Location of Project within Address: SEE PLOT PLAN
Owner/Operator: ARBOR DEUFLOAMENT GLOUP IN C
Check any that apply (400 numbers refer to regulation section requiring reporting):
Tank Removal or Replacement (401) Contaminated Soil Excavation and Removal (402)
Aeration of Soil < 50 ppmw organic content, but does not meet Section 118 Exemption (403)
Section 114 Exempt; Date Pipeline Leak Started:Vol. Of Soil:(403)
☐ Section 115 Exempt; Date Contamination Unrelated to UST Activities <i>Discovered</i> : (405)
If only Tank Removal is selected, attach results showing soil is not contaminated
CONTRACTOR INFORMATION
Name: Ry BEOUI PMENT INC. Site Contact: RICK JEFFEL Phone: 5107823774
Address: 2215 DUNNER HAYWARY PA 94545
TANK REMOVAL (Section 401)
Scheduled Start Date: /2-/-/O Number and Size of Tank(s): 2-/5,060 & /-/2,000 GALW
Explain Methods of:
Piping drainage or flushing (310.1) <u>SEALE > Juby 2008</u>
Liquid and sludge removal (310.2) TEMA ABANDONED JULY 2008
Vapor removal (310.3) [Check One] 🗍 Water Displacement 🖫 Vapor Freeing* 🗍 Ventilation*
* Emission controls required for vapor freeing or ventilation if tank size greater than 250 gallons.
COMPLETE INFORMATION BELOW OR ATTACH SAMPLE RESULTS SHOWING SOIL IS UNCONTAMINATED (310.4)
CONTAMINATED SOIL EXCAVATION AND REMOVAL (Section 402)
Scheduled Start Date: Scheduled Completion Date:
Purpose of Excavation:
Quantity of Soil: Organic Content & Type:
Methods used to quantify and analyze soil:
Method of Stockpile Control (304-306)
☐ Water Spray ☐ Covered ☐ Vapor Suppressant (List Material Used):
Method of Site Closure (306)
☐ Backfilled ☐ Contaminated Soil Removed
Onsite Treatment (Describe): A/C or P/O #:
Loaded Trucks Covered? (306.2)
AERATION OF SOIL ≤ 50 PPMW ORGANIC CONTENT (Section 403)
You must submit a Permit Application and Risk Screening Analysis (Forms will be sent to you)
FOR BAAQMD USE ONLY
Fax/PM Date: By: Disp to t#: Area: Date: By:

APPENDIX C

CITY OF LIVERMORE DEMOLITION PERMIT NO. DEM10017

LINYLINGIC PROCESSION





Plan Check No:

DEM10017

Address:

1000 Vasco Road, North, Livermore

Facility Name:

Former Geno's County Store

Project Type:

Remove 3 underground storage tanks

Submitted By:

R & B Equipment, 510-782-3774

Reviewed By:

Danielle Stefani, Hazardous Materials Coordinator

Review Date:

November 1, 2010

Conditions of Approval

A Fire Department inspector must be present for the removal of the tanks.

The trucks hauling each tank must be on-site before the tank is removed from the ground.

The proper calibration of the gas meter must be demonstrated to the Fire Department inspector prior to testing of the tanks for clearance for removal of the tanks. The LEL meter shall have a dilution valve to ensure adequate oxygen is present to obtain accurate LEL readings. Call Danielle Stefani at 925-454-2338 if you have any questions about this requirement.

CITY OF LIVERMORE	Permit No. DEM10017
Community Development Department	Issued Date:
1052 S. Livermore Avenue	Valuation: \$25,000.00
Livermore, CA 94550	Site Address: 1000 Vasco Road, North ****
Information: (925) 960-4410	Parcel Number: 099B507500608
Inspections: (925) 960-4430	Fire Sprinklers?
mspections, (bed) boo 4400	Smoke Detectors?
Owner Name & Phone #: Eugene And Shirley Ma	
Contractor Name & Phone #: R & B EQUIPMENT	(310) 102-3114
Description of Work: Remove 3 underground fuel to Vaqueros)	tanks. 2 15,000 tanks and 1 12,000 tank (Los
IMPORTANT	관심하는 그리면 작가 나라고 무역하는 것이 있다면 다음하다.
Application is hereby made to the City of Livermore for a on the front face of this application. Each person upon	
Division 3 of the Business and Professions Code, and my license is in ful	icensed under provisions of Chapter 9, commencing with Section 7000) of I force and effect.
License Class: A ASB C21 HAZ License Number: 669008 Expiration Date: 04/30/2	201
	경영 로 경영을 보면 전상 설명한 다음을 보고 연중합니다.
Contractor's Signature: Patti ()	고 있다. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
that it was not built or improved for the purpose of sale.). I, as owner of the property, am exclusively contracting with license Professions Code: The Contractors' State License Law does not apply to for the projects with a licensed Contractor pursuant to the Contractors' State License I am exempt from licensure under the Contractors' State License I By my signature below I acknowledge that, except for my personal resider of the improvements covered by this permit, I cannot legally sell a structure entirety by licensed contractors. I understand that a copy of the applicable upon request when this application is submitted or at the following Web signature.	able item(s) (Section 7031.5, Business and Professions Code: Any city or pair any structure, prior to its issuance, also requires the applicant for the approvisions of the Contractors' State License Law (Chapter 9 sions Code) or that he or she is exempt from licensure and the basis for or a permit subjects the applicant to a civil penalty of not more than five sole compensation, will do () all of or () portions of the work, and the Professions Code: The Contractors' State License Law does not apply to or improves the property, provided that the improvements are not intended a one year of completion, the Owner-Builder will have the burden of proving and Contractors to construct the project (Section 7044, Business and an owner of property who builds or improves thereon, and who contracts ate License Law.). Law for the following reason: In the following reason:
Issued Date Signature of Property Owner or Au	uthorized Agent
for the performance of the work for which this permit is issued. I have and will maintain workers' compensation insurance, as required to which this permit is issued. My workers' compensation insurance carrier: ZURICH AMERICAN INSURANCE COMP	ired by Section 3700 of the Labor Code, ired by Section 3700 of the Labor Code, ired by Section 3700 of the Labor Code, for the performance of the work ire and policy number are: Policy Number: WC926612500 It is issued, I shall not employ any person in any manner so as to gree that if I should become subject to the workers' compensation
Issued Date: Applicant	
Issued Date: Applicant:	
I certifiy that I have read this application and state that the above informat building construction, and hereby authorize representatives of this City to	enter upon the above-mentioned property for inspection purposes.
Issued Date: ////8 //() Signature of Owner or Contra	actor: WK 1465
PLEASE NOTE: THIS PERMIT SHALL EXPIRE BY LIMITATIO Pursuant to Section 17951(d) of the California Health & Safety Code, you within 60 days of notification of completed work.	N IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

N VASCO RD 000 Road Vasco NO. 15,000 gal 15,000 gol Rostaural Auto Shop WARE HOUSE VACANT Lot NOV 10. Central



Inspe Storm I		Contraction in C	Iommercial	Shell Inspect	ions		dan da esta da Esta da esta d
Inspe	ction	Date	Inspector	Inspection	gladenani seje - resed de La compete de La compe	Date	Inspector
Storm I	Drain			Wall Framing			
			1				
Sewer					Lower		
******				Closures	Upper		
Water 9	Service (Domestic)				Interior Column Footing		
Water S	CIVICE (Domestic)	-		Retaining Walls	Walls		
Setback	IS			Trook Evologues	Footing		-
				Trash Enclosure	Walls		
Hadous	l a la	Plumbing		Light Pole Footing	[\$		
Unders	ab	Electrical		Roof Nailing Soffit Framing			
Interior	Column Footing			Somerranning			
				Roof Framing			
Buildin	g Footings						
	·						
							
Slab				Sheetrock			
Wall Pa		ļ		Rainwater Piping	Exterior		
wall ra	illers				Underground		
I				Electrical	Rough Inside		
					House Panel		
					Service		
Pre-Gre	out						
	-						-
		UG Hydrosta					
T' T.		OH Hydrosta	tic Test				
	otection	UG Flush Connection a	a DHE				
Arire Pr							
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Fire Pr		Welded Pipe Fire Alarm		Siell Towner	ions		
File Pr		Welded Pipe Fire Alarm	Commercial	Shell Inspec	tions	Data	Inenector
Inspe	ection	Welded Pipe Fire Alarm		Inspection		Date	Inspector
Inspe	ection loor Plumbing	Welded Pipe Fire Alarm	Commercial	Inspection Warehouse Elect	ric	Date	Inspector
Inspe Underf	ection loor Plumbing	Welded Pipe Fire Alarm	Commercial	Inspection Warehouse Elect Electrical Service	ric e	Date	Inspector
Inspection of the Inspection o	ection loor Plumbing log lectric Plumbing	Welded Pipe Fire Alarm	Commercial	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi	ric e n	Date	Inspector
Inspe Underf Framir Wall E Rough Wall Ir	ection loor Plumbing lig lectric Plumbing isulation	Welded Pipe Fire Alarm	Commercial	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi Gas Piping Test	ric e n pment	Date	Inspector
Inspe Underf Framin Wall E Rough Wall In OK to	ection loor Plumbing log lectric Plumbing lisulation Cover Wall	Welded Pipe Fire Alarm	Commercial	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi	ric e n pment	Date	Inspector
Inspe Underf Framir Wall E Rough Wall Ir	ection loor Plumbing leg lectric Plumbing isulation Cover Wall	Welded Pipe Fire Alarm	Commercial	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi Gas Piping Test	ric e n pment	Date	Inspector
Inspe Underf Framin Wall E Rough Wall In OK to	ection loor Plumbing lectric Plumbing isulation Cover Wall ock T-Bar	Welded Pipe Fire Alarm	Commercial	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi Gas Piping Test	ric e n pment	Date	Inspector
Inspective Property of the Pro	loor Plumbing lectric Plumbing sulation Cover Wall ock T-Bar Electrical Mechanical	Welded Pipe Fire Alarm	Commercial	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi Gas Piping Test	ric e n pment	Date	Inspector
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Inspe Underf Framin Wall E Rough Wall Ir OK to Sheetn Above Ceiling	loor Plumbing lectric Plumbing sulation Cover Wall ock T-Bar Electrical Mechanical	Welded Pipe Fire Alarm Date	Commercial	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi Gas Piping Test Welded Pipe for F	ric e n pment	Date	Inspecto
Inspecture of the Property of	loor Plumbing lectric Plumbing sulation Cover Wall ock T-Bar Electrical Mechanical Sprinklers	Welded Pipe Fire Alarm Date	Commercial	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi Gas Piping Test	ric e n pment	Date	Inspecto
Inspective Value of the North Above Ceiling OK to	loor Plumbing lectric Plumbing sulation Cover Wall ock T-Bar Electrical Mechanical Sprinklers Install Ceiling Tile	Welded Pipe Fire Alarm Date	Commercial Inspector Fina	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi Gas Piping Test Welded Pipe for F	ric to the control of the control o	Date	Inspector
Inspective Value of the Property of the Proper	door Plumbing dectric Plumbing sulation Cover Wall ock T-Bar Electrical Mechanical Sprinklers Install Ceiling Tile	Welded Pipe Fire Alarm Date	Commercial	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi Gas Piping Test Welded Pipe for F	ric e n pment ire Protection		
Inspective Value of the Price	loor Plumbing lectric Plumbing sulation Cover Wall ock T-Bar Electrical Mechanical Sprinklers Install Ceiling Tile	Welded Pipe Fire Alarm Date	Commercial Inspector Fina	Inspection Warehouse Elect Electrical Service Ceiling Insulatio Mechanical Equi Gas Piping Test Welded Pipe for F	ric e n pment ire Protection		

APPENDIX D

DRY ICE RECEIPT FOR 750 POUNDS DRY ICE



DANGEROUS AND MAY CAUSE EXPLOSION.

4600 Malat Street • Oakland, CA 94002 (510) 533-9353 • Fax (510) 533-3002

411 Old County Rd. • Belmont, CA 94002 (650) 593-1838 • Fax (650) 593-1518 164759

REMIT TO:

P.O. BOX 23804 OAKLAND, CA 94623-0804

DOC.#

DATE 1-80-11

DG #

BRYS EQUIPMENT

S.H.P. T.O

CUSTOMER P.O. # REAL	RASE #	eams 2	SHRIPES TROM
		Chille	umate
SABIR VIA DRIBER BA	is Challands		
CYLINDERS QUANTITIES			LINE PRICE EXTENDED
DEL RET. ORDERED SHIPPED BACK ORDERED	U/M	DESCRIPTION	UNITERICE PRICE
730 750)/=	,53 347.50
	1 Deg) S UE SCALO	
		P(E)	
			\$ 38.76
SPECIAL INSTRUCTIONS			A 1/2/6
			\$ 436.26
			total BU
	La de la companya de		☐ REFUSED
This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department	EMERGENCY RESPONSE 1 (800) 633-8253 SHIPPED BY:		ACCEPTS THE ABOVE PRODUCTS SUBJECT TO ALL SEE SIDE HEREOF AND THE EXISTING CONTRACT
of Transportation. By Alliance Gas Products	<u> </u>	RECEIVED BY: X	DATE
CAUTION: USE NO OIL OR LUBRICANT OF ANY KIND ON CYLINDERS, YALVES, GAUGES, REGULATORS OR ANY OTHER FITTINGS, AS SUCH USE IS			

PRINT NAME: X

APPENDIX E

UNIFORM HAZARDOUS WASTE MANIFESTS FOR TANKS

se print or type. (Form desig	ned for use on elite (12-pitch) typewrit						n Approved.	OMB No. 20	050-
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number CAC082659015	2. Page 1 o	3. Emergency Respo 510-235-1393	Andrews Committee Committee		213	579	4 JJ	K
5. Generator's Name and Mailin	ng Address MATT MACEDO		Generator's Site Addre	ess (if different th	an mailing addres	s)			
	1000 N VASCO RD								
0.005.44	INTERMODE OF AN	551	1						
Generator's Phone: 925-44 Transporter 1 Company Nan	ue 5-5001				U.S. EPAID N	lumber			-
	ECOLOGY CONTROL INDU	ISTRIES			1	C,A	D982030	173	
7. Transporter 2 Company Nan	ne				U.S. EPA ID N	lumber			
8. Designated Facility Name ar	nd Site Address				U.S. EPAID N	lumber			
	ECOLOGY CONTR 255 PARR BOULEV	OLINDUSTRIES				CA	D009466	392	
Facility's Phone:510-235-1	ENCOUNTED TO A VIOLENCE	801			1				
65 110 DOTO	ion (including Proper Shipping Name, Hazara	t Class ID Number	10, Cor	tainers	14 Tetal	10 11-3	I		-
9a. Bb. U.S. DUT Description HM and Packing Group (if:		white the community	No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13.1	Waste Codes	
1.			110		i mora da co			T	Andrew Co.
NUN-RUNA H	AZARDOUS WASTE SOLID (I	EMPTY STURAGE TAI	NK) 001	IP -	15000	P	512		-
									and reported
2.					B				
100									Printer land
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5. G	enerator's Name and Mailir	ng Address MATT MACEDO			Generator	s Site Address	(if different th	an mailing addres	s)		-	
1		1000 N VASCO RD										
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Facil	ity's Phone,510-235-1	1393 PAGERMOND, CA	84001									
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19. H	lazardous Waste Report M	anagement Method Codes (i.e., codes f	or hazardous waste trea	tment, disposa	al, and recyc	ling systems)			-			
18c. 19. H	111200	2.		3.		w 1 - 3 - 3 - 3		4,		***************************************		-
	7/29											
		or Operator: Certification of receipt of ha	zardous materials covere	ed by the man	ilest except	as noted in Ite	m 18a			naka K	Ally	
Pripa	Property 1/	11006-		Si	gnatuge /	11	711		/	Mo	nth Day	Year
1	2011/1	MASKE			Pu		me	least	242	11	120	1/
A Forn	18700-22 (Rev 3-05) 1	Previous editions are obsolete		-157 1-157 - 15		-			Taranta and the		STATE OF THE PARTY OF	Liber Sales

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

APPENDIX F

CERTIFICATES OF TANK DESTRUCTION

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard - Richmond, California 94801 Phone # 510-235-1393

CUSTOMER: R AND B EQUIPMENT

JOB NO: 52T4197

GENERATOR: MATT MACEDO

1000 N. VASCO RD LIVERMORE CA 94551

FOR: ECOLOGY CONTROL INDUSTRIES

TANK NO.: 34161

LOCATION: RICHMOND

DATE: 04/05/2011

LAST PRODUCT: UNLEADED

TEST METHOD: VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE:

15,000 GALLONS

CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES

HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED

AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.

ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED

THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

TITLE

under which it was issued.

REPRESENTATIVE

INSPECTOR

pecce

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard · Richmond, California 94801 Phone # 510-235-1393

CUSTOMER: R AND B EQUIPMENT

JOB NO: 52T4197

GENERATOR: MATT MACEDO

1000 N. VASCO RD LIVERMORE CA 94551

FOR: ECOLOGY CONTROL INDUSTRIES

TANK NO.: 34162

LOCATION: RICHMOND

DATE: 05/04/2011

LAST PRODUCT: DIESEL

TEST METHOD: VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE: 15,000 GALLONS

CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES

HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED

AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.

ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED

THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

TITLE

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard · Richmond, California 94801 Phone # 510-235-1393

CUSTOMER: R AND B EQUIPMENT

JOB NO: 52T4197

GENERATOR: MATT MACEDO

1000 N. VASCO RD LIVERMORE CA 94551

FOR: ECOLOGY CONTROL INDUSTRIES

TANK NO.: 34163

LOCATION: RICHMOND

DATE: 03/10/2011

LAST PRODUCT: DIESEL

TEST METHOD: VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE: 12,000 GALLONS

CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES

HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED

AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.

ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED

THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations: and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

REPRESENTATIVE

TITLE

INSPECTOR

APPENDIX G

REPUBLIC SERVICES COMPANY TAG FOR RECEIPT OF PIPING FOR LANDFILL DISPOSAL



REPUBLIC SERVICES VASCO ROAD LANDFILL

4001 N, Vasco Road, Livermore, CA 94551 (925) 447-0491

011980

R & B EQUIPMENT 2215 DUNN ROAD HAYWARD, CA 94545-2205

Contract: 3850111454

88821 TICKET GRID 102004 OOOWEIGHMASTER M FEDROZA DATE IN 31 January 2011 4:43 pm DATE OUT TIME OUT 31 January 2011 4:43 pm SOTPS REFERENCE VASCO LIVERMORE

Gross Weight 36,720.00 lb Stored Tare Weight 32,860.00 lb

Net Weight

3.860.00 15.

Inbound - SCALE TICKET

		DESCRIPTION	PATE	EXTENSION	TAX	TOTAL
1.93 1.00 1.00	TN LD LD	SW-OFF SPEC MATERIAL ENVIRONMENTAL FEE FUEL RECOVERY FEE	\$80.00 \$6.18 \$4.48	\$154.40 \$6.18 \$4.48	\$0.00 \$0.00 \$0.00	\$154.40 \$6.18 \$4.48
				(beleljen, gr	ži tary, ryjes	
		sterret of entre manner	Proposition	ing die die die 1945 Gebeurg die 1945 in B		

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution. All children must remain in vehicles.

Absolutely no salvaging allowed.

CUSTOMER

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the division of Measurement Standards of the California Department of Food & Agriculture.

\$165.06

TENDERED \$O. OO

CHANGE

APPENDIX H

REPUBLIC SERVICES COMPANY WASTE PROFILE FOR FIBERGLASS PIPING



			graduation, separation to the second	
Requested Disposal Facility: 385	i0 Vasco Road Landfill CA			Waste Profile #
Saveable fill in form. Restricted printing until	all required (vellow) fields are completed	POTENTIA PARA PROCESTO PROMETER MARIENTA SERVICIA MARIA ANTONO PARA		
I. Generator Information			Sales Rep #.	PPP (Permitted An Exemple conducted) (March Institute and Antenna (MARCH) (March Institute and Insti
Generator Name: Matt Maced			and the Control of Con	
Generator Site Address: 100	0 N. Vasco Road			
City: Livermore	County: Alameda	State:	California	Zip: 94551
State ID/Reg No:	State Approval/Waste Code			able) NAICS #:
Generator Mailing Address (i			(ii uppilo	oboji v too ir .
City: Livermore	County: Alameda	State:	California	Zip: 94551
Generator Contact Name:	Annual of the second of the se		Email:	[Lip. 0700]
Phone Number:	Ext:		ımber:	
Ila. Transporter Informatio) M		And the state of t	
Transporter Name: R & B Equ	**************************************	Contac	t Name: Rick or	Pat
Transporter Address: 2215 Du	The state of the s	Toomac	t verie. Not of	1 CIL
City: Hayward	County: Alameda	State: 0	CA	Zip: 94545
Phone Number: (510) 782-3			ransportation N	
llb. Billing Information	and the first of the second se	01010	Tarioportation 14	auniber.
Bill To: R & B Equipment, Inc.		Contac	t Name: Rick or	Dat
Billing Address: 2215 Dunn Ro	ad	Toontao	7	
City: Hayward	State: CA	Zip: 94545		ment@sbcglobal.net
		ZIP. 34343		Phone: (510) 782-3774
III. Waste Stream Informat	ion			
Name of Waste: underground f	iberglass pipe - clean & dry			
Process Generating Waste:				
excavate to remove underground	piping			
Physical State: SOL	ID SEMI-SOLID POW	DER TILIC	QUID	
Method of Shipment: 🗸 BULI	✓ □DRUM □BAGGED			
Estimated Annual Volume: 10		ns		
Frequency: ONE TIME [TANNUAL			
	NDFILL SOLIDIFICA	TION [BIOREMEDIA	TION
	The state of the s		OTOTAL DIA	11014
V. Representative Sample			☑NO S	AMPLE TAKEN
Is the representative sample colle analysis, collected in accordance equivalent rules?	cted to prepare this profile and I with U.S. EPA 40 CFR 261.20(c	aboratory ;) guidelines	or YES o	r 🔲 NO
Sample Date:	Type of Sample: COMPO	OSITE SAM	DIE TO COA	D CASADI E
Sample ID Numbers:	. The or cample	JOILE SAIV	IFLE [] GRAI	B SAMPLE



Page 2 of 2

				Wa	ste Profile #
V. Physical	Characteristics of W	aste			
Characterist	ic Components			l	range)
	ss pipe - dry & clean			100.000	range)
3.					
4.					
5.	annin mil german get specimen angels, may nyeloget is quit pour in the sign of the garden and		***		
Color	Odor (describe)	Does Waste Contain Free Liquids	% Solids	pH:	Flash Point
tan	попе	Yes or No	100.00	N/A	N/A o_
Attach	Laboratory Analytical Re	eport (and/or Material Safety D Reguired Parameters Provided	ata Sheet) In for this Profi	cluding Chain	of Custody and
Does this waste	or generating process contain	regulated concentrations of the fo	llowing Pestic	ides and/or	
Herbicides: Chlo	ordane, Endrin, Heptachlor (a	and it epoxides), Lindane, Methoxy	chlor. Toxanh	ene. 2.4-D or	
2,4,5-TP Silvex	as defined in 40 CFR 261.33	?			Yes or No
Does this waste	contain reactive sulfides (gre	ater than 500 ppm) or reactive cyar	ide (greater th	an 250 ppm)	
Does this waste	R 261.23(a)(5)]?	ons of Polychlorinated Biphenyls (DOD) 1 F	1:	Ycs or No
Part 761?					Yes or No
261.33, including	contain concentrations of list g_RCRA_F-Listed Solvents?	ed hazardous wastes defined in 40	CFR 261.31, 2	61.32,	Yes or No
		eristic as defined by Federal and/or	State regulation	ns?	Yes or No
Does this waste	contain regulated concentrati	ons of 2,3,7,8-Tetrachlorodibenzoo	lioxin (2,3,7,8-	TCCD), or any	
other dioxin as d	efined in 40 CFR 261.31?			,,	Yes or No
		ed by Federal and/or State regulati			Yes or No
		e as defined by Federal and/or Stat	e regulations?		Yes or No
Is this waste a re	active or heat generating was	ste?			Yes or No
Does the waste c	ontain sulfur or sulfur by-pro	oducts?			Yes or No
Is this waste gen	erated at a Federal Superfund	l Clean Up Site?			Yes or No
Is this waste from	n a TSD facility, TSD-like fa	cility or waste consolidator?			Yes or No
/l. Certifica					
hereby certify the	at to the best of my knowledg	e and belief, the information contain	ned herein is a	true, complete a	nd accurate description
Of the waste triate	enai being offered for dispose	ii and all known or suspected hazar	ds have been d	disclosed. All An	alytical Results/Material
balety Data Snee	is submitted are truthful and	complete and are representative of	the waste.		
further certify tha	at by utilizing this profile, neith	ner I nor any other employee of the	company will d	alivar for dienner	or ottomot to delice
oi disposal ally w	asie which is classingo as 10:	XIC Waste, nazardous waste or infec	tious wasta or	any other waste	motorial this Enville . !-
nounnied notti ac	cepting by law. I shall immed	diately give written notice of any ch:	ange or condition	on pertaining to t	ho wante not negutided
naccurate or untro	any neterny agrees to fully life	demnify this disposal facility against	any damages	resulting from th	is certification being
		d the form or next of the			and the state of t
Later College Old	time company has not aftered	d the form or content of this profile s	neet as provid	ed by Republic S	services Inc.
				ra Til	
Au	thorized Representative Name/Title	e (Type or Print)		Company Name	And the second s
	2	>	14	355	
	Authorized Representative Si	mature		Date	ARTON AREADES AT
				Date	1

APPENDIX I

LIVERMORE-PLEASANTON FIRE DEPARTMENT INSPECTION REPORT #1

LIVERMORE-PLEASANTON FIRE DEPARTMENT

INSPECTION REPORT NARRATIVE

Name of Facility: Gen'o's Country Store Address: 1000 A VASCOR (Liv, Pleas.)
Inspector: DANIENO SEPANI
I used the standard NST Closure form
abla releasement of the contraction of the contract
Rémoved + 15015,000 gasoline
1 x 15,000 gasoleno 1x 12,000 diesel
1x 12,000 Lesel
1,000 Us dry ice used
Contractor had a meter-CGI & O2 - that
had documentation of calebration done on
1/5/11. The point specified domonstration
151 calebration prisite, but noceas was
on-site. The consultant pr-site-
NGO had a PID posite with 100 ppm
rollibration gas, The proper calibration
of the Did was domonstrated.
Peading in the tanks were 280ppm-TANK!
930 00M TANK 2 ! 2105 DAM TANK 3.
CIGI matched these peadings at 1-4%
1/FI Oxygen was down for
The piping will be comoved at a later date
Lue to acces usues
The gas tank pit contained under and a
Sheen . The alesa put also contoured
water and a skeld.
The tanks associated to be in excellent shope
Marile Indika Dalia Ilailii
Received by: Signature of Facility Representative Printed Name Date of Inspection

CM.5.9 Narrative Rev. Date: 8/4/2010 Page $\underline{/}$ of $\underline{\mathcal{A}}$

LIVERMORE-PLEASANTON FIRE DEPARTMENT

INSPECTION REPORT

Name of Facility: Geno's (DUNITY Short Address: 1000 N GETTS Liv)Pla	eas.
nspector:	
Manifest No - 002/35795 /# 34/6/2	1 3 1
002135794 1# 24/61	
002135796 4 6 34163	
ECI Job# 6274197	
Site map exists in the Site Gib.	
Site map exists in the site 46.	- 12 T
No staining of soil.	V
orte e Principalita de la Maria Maria de la compansión de transferencia de la compansión de la compansión de l La compansión de la compansión de la compansión de la compansión de la productiva de la compansión de la compa	
WHEN samples taken in each pit.	
	<i>A</i> =
For Safety and access Reasons the excava	tro
will be backfilled and paved before	
The last result are back the area	_
may hear to be nomend desending	<u> </u>
and find to be no opened depending	2
Remediation	<u> </u>
The RP has deceded to take Soil	
Samples as well	

Received by: Signature of Facility Representative

Printed Name

Date of Inspection

APPENDIX J

LIVERMORE-PLEASANTON FIRE DEPARTMENT INSPECTION REPORT #2

LIVERMORE-PLEASANTON FIRE DEPARTMENT

INSPECTION REPORT NARRATIVE

Name of Facility: Goods Country Store	Address: 1000 N Vasco Rd.	Liv./Pleas.
Inspector: Pan Smith		
100000	4	
**************************************		4.
×	= former diesel dispensers - Sample 1.	scal Former basoline
34″ ∿	, 013-2313-770	
	< PL3-312 Grey Color petrolem	Dy merchan
	•	
S+KP13 30	(PL3-511	
×		
3'2"	8L3-510 Slight grey rolur slight aroma	
	1	
3'2"	K PL3-59	
N		
*		· / _
vent lines		
D2'8''	1 Stocupile x	
VP-513 U	STAPLE	
Former (here (6 643-29
tank		
		200
Simple collected 13 from pipeliner		1 3 1
2 for steelphs:	STK-PL3 * STK-pl2	
A 1 : C		
A small leigh of ventile beneath the	curb between the former	
town and the vent rack has left in pla	to the second se	
Stoth Menard will be removed including	he vent pupe 2" metal, pipe security	
ruch and unistrut when the sectionrant is des	*	
clevelagment		gasoline disperses
		so direct too
I observed to chain of custody complited for	the lab. Simply um be analyze	
per TI. Regional Boards Recommendation for learning funds	Appendix A	offsite 135
		1 27 11
Received by: Signature of Facility Representative	Printed Name	Date of Inspection

CM.5.9 Narrative Rev. Date: 3/4/2010 Page 1 of 2

LIVERMORE-PLEASANTON FIRE DEPARTMENT

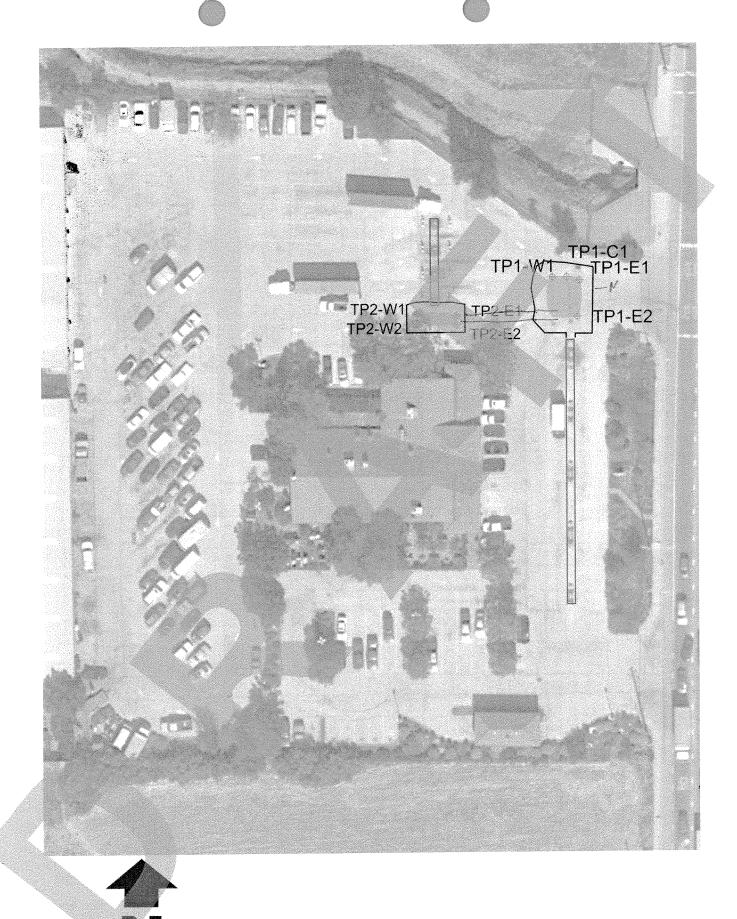
INSPECTION REPORT NARRATIVE

ame of Facility: Geno's Config Store spector: 8 45 Milt for Sampling of pipeline on a 9 chipanser feeling state Had 4 chipansers for dissel without a capage 5 chipansers for gasoline without a capage met w Milk of fir B, tellow with Rich of R' B (e) capperlines/piper Mark Pupinaw - Sampler to chistric sampling behavalth pi 3'9" X X Former 6 PL258 PL258 PL258	iping
Had 4 chapensed for diesel without a capage 5 chapensed for gasoline without a capage met w mile of for B tellow wi Rich of R. B (e) vaporting/piper mark Pupinan - Sampler to chistory sampling belocath pi 3'9" X X PL258 PL258 PL258 PL258	iping
Mark Papinar - Sampler to chiscus sampling beneath pi 3'9" X X Former 60 PL25-8 PL258 PL258 Vent line 3	ping a tunh
X X Former & pit PL25-8 PL258 PL256	en tunh
Vent lines 3	-,3 { ,
Xent lines 3	PL1-55
	3′
Samples collected vising stide humaner	<u>ρμι-54</u>
Stockpile Samply collected by exposing fresh	
A gravel which may hard pucked into a brail the	1 PL1-53
N * Ominly copped	7,8,,
	,
	₹10
	, passes, L
· · · · · · · · · · · · · · · · · · ·	J 3/5
	slight g

Printed Name

Date of Inspection

Received by: Signature of Facility Representative



0 25 50 100 Feet

APPENDIX K

SIGNED LABORATORY REPORTS AND SAMPLE CHAINS-OF CUSTODY

McCampbell Analytical, Inc.

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

Environmental Service	Client Project ID: #2010-035; 1000 N. Vasco Rd	Date Sampled: 01/21/11
5789 Gold Creek Drive		Date Received: 01/21/11
over gold creek prive	Client Contact: Marc Papineau	Date Reported: 01/25/11
Castro Valley, CA 94552	Client P.O.:	Date Completed: 01/25/11

WorkOrder: 1101510

January 25, 2011

Daga	Marc:
Dear	IVIAIC.

Enclosed within are:

- 1) The results of the 10 analyzed samples from your project: #2010-035; 1000 N. Vasco Rd,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager

McCampbell Analytical, Inc.

	AWA.
[- AND
1	

McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com Telephone: (877) 252-9262 Fax: (925) 252-9269

þ	GH	CHAIN O	F CUS	TODY	RECOR
	THRN	AROUND TIME			

I UKIN AKOUND I	WIATEN	100	11	9000	1000		1000
		RUS	SH	24 HR	48 HR	72 HR	5 DAY
GeoTracker ED	F 📮	PDF		Excel	□ Wr	ite On (DW)
	Che	eck if sa	ampl	e is efflu	ent and "J	" flag is r	equired

														Check if sample is effluent and "J" flag is required																				
Report To: M.	Report To: M. PAPINEAU Bill To: RICK JEFFRIES														*	Anal	ysis	Re	que	st						4	the	r	Comments					
Company: environmental service REB Equipment										┨.			0			M.P.Y		51.5			7						240			Filter				
57	89 Qu	CREEK	DR.						20			,		A STORY WILDS	E E		B&					gen			27	b					25.5			Samples
	STRO VA		CA I	E-Ma	il: r	nar	C_	PO	56	cg	Joh	4/1	nel	43	S		20 E			per		ů						(02	6		2 7			for Metals
Tele: (5%) 88				ax:										1 0	2013		1.55	=	(8)	(17)		ors/		(S)	93		-	7.600	602		O. H.			analysis:
Project #: 20/0	- 035		F	rojec	t Na	me:	10	00	N.	V	250	bok	Rd				1664	(418	VO	1 80	(sa	rocl		icide	A.		NAS	0109	010		B.A			Yes / No
Project Location: Sampler Signatur	1000 N	· VASCO	RD.	411	IER	140	RE	2	9					800	+ 1708		se (ons	1 (H	1 602	ticid	Y: A	des)	Herb	83	(S)	Is / P	8/8	8/6	8020	33			
Sampler Signatur	e: Marc	140	pina	- 1	n	P				_				J §	7700		Grea	carb	802	(EP/	Pes	NO.	stici	0	Ž	SVC	PAE	7 200	200.	10/0	3			
	50 10	SAMI	PLING		ers	Ĺ	ΜA	TR	IX	J		ETH SER			Cas	(51)	Sil &	Hydro	8010	NLY	81 (C	CB's	NP Pe	Acidic	82601	8270	8310 (200.7	7.000	8/60	23			
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	Debox.	Officer BYEV & TPU as	BIEA & IFH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	M#08-BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 7 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (** 9Cs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	1346K withe, Dil			
TP2-diesel-	W I-	21-2011	1123	1	11	V				7	1		T	Т	1	/				3	D				X						Γ.			
TPI-gas-Wi		21-2011		3	VO	4 1				-	1	/		\ \	/					1	M										/			
TO2-FI		21-2011		1	B		1				1					/				V														
TPI-gas-W TPZ-EI TPZ-EZ		21-2011			B	T	1		1	1	1	T		1		/				/														
TP2-W1		21-2011		1	B	†	1	Т	\top	1	1	T	T	\top		1				V														
TP2-W2		21-2011		ì	B		V			1	1	T		T	_	/				1														
TPI-EI		21-2011		1	B		V			1	1			7	1																1			
TAI-WI		-21-2011	,	i	B		1			T	V			\ \	1																~			
TPI-CI TPI-WEZ ZWEZ		21-2011		1	B		V				5			~	1																/			
TPI-VEZ		21-2011		1	B		V				1			V	/																/			
TUSE 2																																		
										T																								
Relinquished By:		Date:	Time:		ived I	y:	0	1	1	. /	11	7		1	CE/	/t°	70	2			7								CO	им	ENT	S:	7	
Man RP.	gamen	1-21-11	3:65pm	1	N	-	2	1	10	4	/ (1				DD C					1													
Relinquished By:		Date:	Time:	Rece	ived I	y:								D	DEC	HL	ORI	NAT	ED	IN I		0.0	_/											
																ROF					INE	KS_	Y	_										
Relinquished By:		Date:	Time:	Rece	ived I	By:								1	-					7	-						****							
														P	PRE	SER	VA'	TIO		DAS	0	& G	M pH		LS	OTI	HER							

McCampbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252	, CA 94565-1701 2-9262					Work	Order:	11015	510	(ClientC	ode: E	NVC				
		WaterTrax	WriteOr	n EDF		Excel	[Fax	5	✓ Email		Hard	Сору	Thir	dParty	☐ J-	flag
Report to:							Bill to:						Req	uested	TAT:	3 (days
Marc Papinea Environmenta 5789 Gold Cr Castro Valley 510-881-8574	al Service reek Drive	cc: PO:	arc_p@sbc 2010-035; 1	global.net 000 N. Vasco Rd			En 578	rc Papi vironme 39 Gold stro Val	ental Se Creek	Drive				e Rece e Prini		01/21/ 01/24/	
									Requ	uested	Tests (See leg	gend b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1101510-001	TP2-Diesel-W	1	Water	1/21/2011 11:23		Α						Α					
1101510-002	TP1-Gas-W		Water	1/21/2011 11:40				Α		В							
1101510-003	TP2-E1		Soil	1/21/2011 12:37			Α				Α						
1101510-004	TP2-E2		Soil	1/21/2011			Α				Α						
1101510-005	TP2-W1		Soil	1/21/2011 12:49			Α				Α						
1101510-006	TP2-W2		Soil	1/21/2011 12:54			Α				Α						
1101510-007	TP1-E1		Soil	1/21/2011 13:09			Α		Α								
1101510-008	TP1-W1		Soil	1/21/2011 13:25			Α		Α								
1101510-009	TP1-C1		Soil	1/21/2011 13:32			Α		Α								
1101510-010	TP1-E2		Soil	1/21/2011 13:09			Α		Α								

Test Legend:

1	8260VOC_W	2	G-MBTEX_S	3	G-MBTEX_W	4 MBTEXOXYPBSCV-8260B_S		5 IBTEXOXYPBSCV-8260B_V
6	TPH(D)_S	7	TPH(D)_W	8		9] [10
11		12						
							Prepa	red by: Melissa Valles

Comments: BTEX, MTBE, DIPE, TAME, TBA, 1,2-DCA, and EDB added to samples TP1-gas-W, TP1-E1, TP1-W1, TP1-C1, and TP1-E2 1/24/11 per email

Comments:

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

Sample Receipt Checklist

Client Name:	Environmental Service				Date	and Time Received:	1/21/2011	3:15:59 PM
Project Name:	#2010-035; 1000 N. Va	sco Rd			Chec	klist completed and	reviewed by:	Melissa Valles
WorkOrder N°:	1101510 Matrix	Soil/Water			Carrie	er: Client Drop-In		
		<u>Chain</u>	of Cu	stody (C	OC) Inform	ation		
Chain of custody	present?		Yes	V	No 🗆			
Chain of custody	signed when relinquished ar	nd received?	Yes	V	No 🗆			
Chain of custody	agrees with sample labels?		Yes	✓	No 🗌			
Sample IDs noted	by Client on COC?		Yes	V	No 🗆			
Date and Time of	collection noted by Client on C	COC?	Yes	✓	No 🗆			
Sampler's name r	noted on COC?		Yes	✓	No 🗆			
		<u>Sa</u>	mple	Receipt	Informatio	<u>n</u>		
Custody seals int	tact on shipping container/coo	oler?	Yes		No 🗆		NA 🔽	
Shipping containe	er/cooler in good condition?		Yes	V	No 🗆			
Samples in prope	er containers/bottles?		Yes		No 🗹			
Sample containe	rs intact?		Yes	✓	No 🗆			
Sufficient sample	volume for indicated test?		Yes	✓	No 🗌			
	<u>s</u>	ample Preser	vatior	and Ho	ld Time (HT	Γ) Information		
All samples recei	ved within holding time?		Yes	V	No 🗌			
Container/Temp E	Blank temperature		Coole	r Temp:	7°C		NA \square	
Water - VOA vial	s have zero headspace / no	bubbles?	Yes		No 🗸	No VOA vials subn	nitted \square	
Sample labels ch	necked for correct preservation	n?	Yes	✓	No 🗌			
Metal - pH accept	table upon receipt (pH<2)?		Yes		No 🗆		NA 🔽	
Samples Receive	ed on Ice?		Yes	V	No 🗆			
		(Ice Type	: WE	TICE)				
* NOTE: If the "N	lo" box is checked, see com	ments below.						
=====	=======				====	======		======
Client contacted:		Date contacte	ed:			Contacted	d by:	

BTEX by 8260 for sample TP2-Diesel-W was not received in a VOA. Ok to pour from liter per M.P.

Environmental Service		oject ID: #2010-0	Date Sampled:	01/21/11		
5789 Gold Creek Drive	Vasco Ro	a		Date Received:	01/21/11	
370) Cold Clean Brive	Client C	ontact: Marc Pap	oineau	Date Extracted:	01/24/11	
Castro Valley, CA 94552	Client P.	O.:		Date Analyzed:	01/24/11	
	Volatile O	rganics by P&T	and GC/MS*	-		
Extraction Method: SW5030B	Ana	lytical Method: SW826	60B		Work Order:	1101510
Lab ID	1101510-001A					
Client ID	TP2-Diesel-W			Reporting Limit fo		
					DF	=1
Matrix	W					
DF	25				S	W
Compound		Conc	entration		ug/kg	μg/L
Benzene	ND<12				NA	0.5
Ethylbenzene	190				NA	0.5
Toluene	800				NA	0.5
Xylenes	1500				NA	0.5
	Surr	ogate Recoverie	s (%)			
%SS1:	82					
%SS2:	99					
%SS3:	85					
Comments	b6					

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

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

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b6) lighter than water immiscible sheen/product is present

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in $\mu g/L$, soil/sludge/solid samples in $\mu g/kg$, wipe samples in $\mu g/kg$, product/oil/non-aqueous liquid samples in mg/L.

Environmental Service	Client Project ID: #2010-035; 1000 N.	Date Sampled:	01/21/11
5789 Gold Creek Drive	Vasco Rd	Date Received:	01/21/11
	Client Contact: Marc Papineau	Date Extracted:	01/21/11-01/22/11
Castro Valley, CA 94552	Client P.O.:	Date Analyzed:	01/21/11-01/22/11

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

Analytical methods: SW8021B/8015Bm Extraction method: SW5030B Work Order: 1101510

LAHaciic	in inculou. B W 3030B			rinary	ticai inctitods.	JW 0021D/0013	Bili		*** 01	k Oluci.	101510
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
002A	TP1-Gas-W	W	240	ND	ND	6.3	3.8	38	1	106	d2
007A	TP1-E1	S	ND	ND	ND	ND	ND	ND	1	86	
008A	TP1-W1	S	ND	ND	ND	ND	ND	ND	1	89	
009A	TP1-C1	S	ND	ND	ND	ND	ND	ND	1	80	
010A	TP1-E2	S	ND	ND	ND	ND	ND	ND	1	91	
	ting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5		μg/L	
ND means not detected at or above the reporting limit		S	1.0	0.05	0.005	0.005	0.005	0.005		mg/K	Ţg.

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

[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

- %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor
- +The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
- d2) heavier gasoline range compounds are significant (aged gasoline?)

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Service	Client Project ID: #2010-035; 1000 N. Vasco Rd	Date Sampled:	01/21/11
5789 Gold Creek Drive	v asco Ku	Date Received:	01/21/11
	Client Contact: Marc Papineau	Date Extracted:	01/21/11
Castro Valley, CA 94552	Client P.O.:	Date Analyzed:	01/22/11

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

Analytical methods: SW8021B/8015Bm Extraction method: SW5030B Work Order: 1101510 Lab ID Client ID Matrix TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes DF % SS Comments 003A TP2-E1 S ND ND ND ND 106 004A S 103 TP2-E2 ND ND ND ND 1 005A S ND ND ND 93 TP2-W1 ND 1 006A TP2-W2 S ND ND ND ND 1 102 Reporting Limit for DF = 1; 5.0 0.5 0.5 50 0.5 0.5 ug/L ND means not detected at or

above the reporting finht									
* water and vapor samples are rep	orted in	μg/L, soil/sludge/so	olid samples i	n mg/kg, wipe	e samples in µ	g/wipe, produc	t/oil/non-aque	ous liquid samples and al	1
TCLP & SPLP extracts in mg/L.									

0.005

0.005

0.005

0.005

mg/Kg

0.05

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

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

Wien Guart, Counts		Telephone: 077 202 7202 Tall. 720 202 7207					
Environmental Service	Client Project ID: #2010-035; 1000 N. Vasco Rd		Date Sampled:	01/21/11			
5789 Gold Creek Drive	vasco Ku		Date Received:	01/21/11			
	Client Contact: M	arc Papineau	Date Extracted:	01/24/11			
Castro Valley, CA 94552	Client P.O.:		Date Analyzed:	01/24/11			

Oxygenates, MBTEX & Lead Scavengers by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1101510

Extraction Method: SW5030B	on Method: SW5030B Analytical Method: SW8260B								
Lab ID	1101510-007A	1101510-008A	1101510-009A	1101510-010A					
Client ID	TP1-E1	TP1-W1	TP1-C1	TP1-E2	Reporting DF				
Matrix	S	S	S	S		-1			
DF	1	1	1	1	S	W			
Compound		Conce	entration		mg/kg	ug/L			
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	0.005	NA			
Benzene	ND	ND	ND	ND	0.005	NA			
t-Butyl alcohol (TBA)	ND	ND	ND	ND	0.05	NA			
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.004	NA			
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	0.004	NA			
Diisopropyl ether (DIPE)	ND	ND	ND	ND	0.005	NA			
Ethanol	ND	ND	ND	ND	0.5	NA			
Ethylbenzene	ND	ND	ND	ND	0.005	NA			
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	0.005	NA			
Methanol	ND	ND	ND	ND	5.0	NA			
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	0.005	NA			
Toluene	ND	ND	ND	ND	0.005	NA			
Xylenes	ND	ND	ND	ND	0.005	NA			
	Surr	ogate Recoveries	s (%)						
%SS1:	77	77	80	80					
%SS2:	109	107	106	106					
Comments									

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

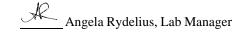
ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



"When Ouality	Counts"			Telephone:	877-252-9262 Fax: 92	5-252-9269			
Environmental Service			#2010-0	35; 1000 N.	Date Sampled:	01/21/11			
5789 Gold Creek Drive	Vasco Ro	1			Date Received:	01/21/11			
	Client Co	ontact: N	Iarc Pap	oineau	Date Extracted:	Date Extracted: 01/25/11			
Castro Valley, CA 94552	Client P.0	Э.:	01/25/11						
	Oxygenates, MB'	TEX & L	ead Sca	vengers by GC/	MS*				
Extraction Method: SW5030B	Ana	lytical Metho	d: SW826	0B		Work Order: 1101510			
Lab ID 1101510-002B									
Client ID	TP1-Gas-W					Reporting			
Matrix	W			– DF	=1				
DF	1					S	W		
Compound		ug/kg	μg/L						
tert-Amyl methyl ether (TAME)	ND					NA	0.5		
Benzene	ND					NA	0.5		
t-Butyl alcohol (TBA)	5.0					NA	2.0		
1,2-Dibromoethane (EDB)	ND					NA	0.5		
1,2-Dichloroethane (1,2-DCA)	ND					NA	0.5		
Diisopropyl ether (DIPE)	ND					NA	0.5		
Ethanol	ND					NA	50		
Ethylbenzene	4.6					NA	0.5		
Ethyl tert-butyl ether (ETBE)	ND					NA	0.5		
Methanol	ND					NA	500		
Methyl-t-butyl ether (MTBE)	0.98					NA	0.5		
Toluene	7.6					NA	0.5		
Xylenes	41					NA	0.5		
	Surr	ogate Red	coveries	s (%)					
%SS1:	90								
%SS2:	93								
%SS3:	100								
Comments		1							

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

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

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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

"When Ouality Counts"

Environmental Service Client Project ID: #2010-035; 1000 N. Date Sampled: 01/21/11 Vasco Rd Date Received: 01/21/11 5789 Gold Creek Drive Client Contact: Marc Papineau Date Extracted: 01/21/11 Client P.O.: Castro Valley, CA 94552 Date Analyzed 01/22/11-01/24/11

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3510C/SW3550B Analytical methods: SW8015B Work Order: 1101510

Extraction method SW	3510C/SW3550B	Analytica	al methods: SW8015B		Work Order: 1101510			
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments		
1101510-001A	TP2-Diesel-W	W	540,000	200	#	e1/e10,b6		
1101510-003A	TP2-E1	S	ND	1	115			
1101510-004A	1101510-004A TP2-E2		ND	1	111			
1101510-005A	TP2-W1	S	ND	1	113			
1101510-006A	TP2-W2	S	ND	1	117			
	g Limit for DF =1;	W	50		με	:/L		
ND means not detected at or above the reporting limit		S	1.0		mg/Kg			

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

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

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

b6) lighter than water immiscible sheen/product is present

e1) unmodified or weakly modified diesel is significant; and/or e10) fuel oil



⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55671 WorkOrder 1101510

EPA Method SW8260B Extraction SW5030B Spiked Sample ID: 1101490-00											01A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
7 mary to	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND<5.0	10	89.1	91.1	2.24	82.9	82.2	0.853	70 - 130	30	70 - 130	30
Benzene	ND<5.0	10	97.4	100	2.75	96.7	94.8	2.04	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND<20	50	92.4	89.6	3.05	96	87.4	9.35	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND<5.0	10	102	102	0	105	104	1.42	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	102	103	1.61	89.3	86.3	3.44	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND<5.0	10	103	106	2.87	101	97.4	3.09	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	99.7	102	2.08	95.8	95.5	0.307	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND<5.0	10	110	109	0.714	109	106	2.60	70 - 130	30	70 - 130	30
Toluene	ND<5.0	10	92.6	93.6	1.05	102	98.4	3.23	70 - 130	30	70 - 130	30
%SS1:	97	25	81	81	0	88	88	0	70 - 130	30	70 - 130	30
%SS2:	97	25	102	101	1.18	94	93	1.21	70 - 130	30	70 - 130	30
%SS3:	81	2.5	91	89	1.74	99	98	1.52	70 - 130	30	70 - 130	30

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

BATCH 55671 SUMMARY

Lab ID		Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
Ī	1101510-001A	01/21/11 11:23 AM	01/24/11	01/24/11 6:01 PM	1101510-002B	01/21/11 11:40 AM	01/25/11	01/25/11 4:01 AM

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

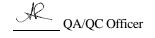
% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

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

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



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55672 WorkOrder 1101510

EPA Method SW8260B Extraction SW5030B Spiked Sample ID: 1101393-001A									001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
7 mary to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	78.9	75.4	4.49	78.5	78.3	0.183	70 - 130	30	70 - 130	30
Benzene	ND	0.050	107	97.1	10.1	112	111	0.846	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	87.7	83.8	4.58	79.7	81.2	1.88	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	91.5	87.3	4.68	90.9	91.2	0.412	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	97.2	90.4	7.29	98.9	98.3	0.619	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	113	104	8.64	117	115	2.24	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	98.8	91.5	7.67	100	99.5	0.906	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	105	98.2	6.90	105	104	0.734	70 - 130	30	70 - 130	30
Toluene	ND	0.050	112	101	9.97	116	113	2.80	70 - 130	30	70 - 130	30
%SS1:	85	0.13	92	94	2.29	94	95	0.768	70 - 130	30	70 - 130	30
%SS2:	99	0.13	106	105	0.648	105	103	1.73	70 - 130	30	70 - 130	30

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

BATCH 55672 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101510-007A	01/21/11 1:09 PM	01/24/11	01/24/11 2:48 PM	1101510-008A	01/21/11 1:25 PM	01/24/11	01/24/11 3:27 PM
1101510-009A	01/21/11 1:32 PM	I 01/24/11	01/24/11 4:06 PM	1101510-010A	01/21/11 1:09 PM	01/24/11	01/24/11 4:44 PM

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

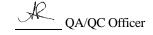
% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

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

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

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

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



W.O. Sample Matrix: Water

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

BatchID: 55669

WorkOrder 1101510

QC SUMMARY REPORT FOR SW8021B/8015Bm

QC Matrix: Water

EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					S	Spiked San	nple ID	: 1101386-0	01A
Analyte	Sample	Sample Spiked MS		MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)	ND	60	109	107	2.01	107	109	1.57	70 - 130	20	70 - 130	20
МТВЕ	ND	10	109	109	0	110	110	0	70 - 130	20	70 - 130	20
Benzene	ND	10	99.4	97.7	1.78	100	98.7	1.30	70 - 130	20	70 - 130	20
Toluene	ND	10	94.3	93.4	0.874	97.3	97.1	0.195	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	98.6	95.8	2.83	98	97.7	0.354	70 - 130	20	70 - 130	20
Xylenes	ND	30	101	98.1	2.81	101	101	0	70 - 130	20	70 - 130	20
%SS:	112	10	96	96	0	97	96	0.236	70 - 130	20	70 - 130	20

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

BATCH 55669 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101510-002A	01/21/11 11:40 AM	1 01/22/11	01/22/11 1:16 AM				

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

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

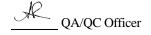
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55736 WorkOrder 1101510

EPA Method SW8021B/8015Bm Extraction SW5030B Spiked Sample ID: 1101485-001A														
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)			
Analyto	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH(btex ^f)	ND	0.60	119	112	6.30	120	126	4.78	70 - 130	20	70 - 130	20		
MTBE	ND	0.10	115	112	2.95	116	116	0	70 - 130	20	70 - 130	20		
Benzene	ND	0.10	96.9	94.6	2.39	94.8	93.6	1.29	70 - 130	20	70 - 130	20		
Toluene	ND	0.10	93.8	91.7	2.18	92.6	90.4	2.34	70 - 130	20	70 - 130	20		
Ethylbenzene	ND	0.10	93.7	91.2	2.71	93	90.6	2.59	70 - 130	20	70 - 130	20		
Xylenes	ND	0.30	93.5	90.6	3.18	92.8	90.5	2.57	70 - 130	20	70 - 130	20		
%SS:	77	0.10	99	96	2.49	93	93	0	70 - 130	20	70 - 130	20		

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

BATCH 55736 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101510-003A	01/21/11 12:37 PM	01/21/11	01/22/11 8:13 AM	1101510-004A	01/21/11	01/21/11	01/22/11 8:43 AM
1101510-005A	01/21/11 12:49 PM	01/21/11	01/22/11 9:13 AM	1101510-006A	01/21/11 12:54 PM	01/21/11	01/22/11 9:43 AM
1101510-007A	01/21/11 1:09 PM	01/21/11	01/21/11 11:04 PM	1101510-008A	01/21/11 1:25 PM	01/21/11	01/21/11 11:34 PM
1101510-009A	01/21/11 1:32 PM	01/21/11	01/22/11 12:04 AM	1101510-010A	01/21/11 1:09 PM	01/21/11	01/22/11 12:34 AM

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

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

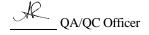
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55729 WorkOrder 1101510

EPA Method SW8015B	Extra	ction SW	3550B					5	Spiked San	nple ID:	1101471-0	07A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
7 thatyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	SD RPD LCS/LCS		RPD
TPH-Diesel (C10-C23)	33	40	87.6	106	10.4	92.1	92.9	0.863	70 - 130	30	70 - 130	30
%SS:	111	25	106	121	13.0	97	96	0.808	70 - 130	30	70 - 130	30

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

BATCH 55729 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101510-003A	01/21/11 12:37 PM	01/21/11	01/22/11 1:41 AM	1101510-004A	01/21/11	01/21/11	01/24/11 2:53 PM
1101510-005A	01/21/11 12:49 PM	01/21/11	01/22/11 3:56 AM	1101510-006A	01/21/11 12:54 PM	01/21/11	01/22/11 5:03 AM

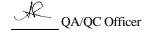
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

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

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

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

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



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55668 WorkOrder 1101510

EPA Method SW8015B	Extra	ction SW	3510C					5	Spiked San	nple ID:	: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	1
Amaryto	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	118	124	4.62	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	102	100	2.15	N/A	N/A	70 - 130	30

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

BATCH 55668 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1101510-001A	01/21/11 11:23 AM	1 01/21/11	01/24/11 10:09 PM					

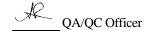
 $MS = Matrix \; Spike; \\ MSD = Matrix \; Spike \; Duplicate; \\ LCS = Laboratory \; Control \; Sample; \\ LCSD = Laboratory \; Control \; Sample \; Duplicate; \\ RPD = Relative \; Percent \; Deviation.$

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

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

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

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



McCampbell Analytical, Inc.
"When Ouality Counts"

Environmental Service	Client Project ID: #2010-035; 1000 N. Vasco	Date Sampled: 01/27/11
5789 Gold Creek Drive		Date Received: 01/27/11
576) Gold Creek Blive	Client Contact: Marc Papineau	Date Reported: 02/03/11
Castro Valley, CA 94552	Client P.O.:	Date Completed: 02/10/11

WorkOrder: 1101651

February 10, 2011

D	3 4	-
Dear	M	arc:

Enclosed within are:

- 1) The results of the 13 analyzed samples from your project: #2010-035; 1000 N. Vasco,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager

McCampbell Analytical, Inc.

1101651

McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701 Website: www.mccampbell.com Telephone: (877) 252-9262 Report To: MRCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701 Email: main@mccampbell.com Fax: (925) 252-9269 Report To: Report To: Report To:														OU eke	NE r E	DF	IM O	E Ch	PD eck	RUS F	SH	24 Ex	HR KCe	ı	48 I	Writ	72 HI te Or flag i	5 DAY (DW) s required Comments				
Company: environmental service Hayward OA 5789 GOLO CREEK DR. CASTRO VALLEY CA E-Mail: marc_pesheglobal, net Tele: (570 881-8574 Fax: (5/0) 581-7204 Project #: 2010-035 Project Name: 1000 N-Vasco											1+ 8015) / MTBE		Grease (1664 / 5520 E/B&F)	is (418.1)	IVOCs)			/ Congeners					PNAs)	6010 / 6020)	6010 / 6020)	0	18TEX/M18E	DCE EDB	Filter Samples for Metals analysis: Yes / No			
Sampler Signatur	1: 1000 N. Vesseo Rd Livermore, CA ire: Manthonia (MA)									\dashv	2 / 802		rease		021 (F	PA 60	estici	NLY;	icides)	3 Her	(S)	VOCs	AHs/	00.8/	/8.00	/ 6020		1,2				
Sumprer Signatur	mu	/	LING				MAT	RE	X		IETI ESE			as (60	(5)	1 & G	ydroca	8/010	LY (E	I (CI P	B's O	P Pest	cidic C	260 (V	S) 0.2	310 (P.	0.7/2	0.7/2	/ 6010	-	5	
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	- La	Soil	T	Other				\neg	BTEX & TPH as G	TPH as Diesel (8015)	Total Petroleum Oi	Total Petroleum Hydrocarbo	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	ATTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors	EPA 507 / 8141 (NP Pesticides)	EPA \$15 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 /	Lead (200.7 / 200.8 / 6010 / 6020)	PA 826	a shall	
PL1-51		1-27-11	1007	1	B		/			V																				1		
PLI-SZ		1-27-11		1	B		/			V		4	4																	1		
PL1-53		1-27-11		1	B		V	_		V		4	4																	1		
PL1-54			1030		B		/	+	-	V		4	4																	V	-	
PLI-S5		,	1044	1	B		V	+	+	V		+	+	-					1									_		V	+	
PLZ-56		1-27-1			B		1	+	+	V	-	+	+		1	-	-	_	1				_				_	_			+	
PL2-57		1-27-11		1	B	\vdash	/	+	-	V	-	+	+	-	1	-		_	1				_					_	-	-	+	
PL2-58		1-27-11		-	B		/	+	+	V		+	+	-	4				1			_	_		_			-			-	1
PL3-59		1-27-11		-	B		/	+		/	-	+	+	+	1		-		1									_		-		
PL3-510		1-27-11		-	B		/	+		/		+	+		1		-		1				6					-		-		
PL3-511		1-27-11		1	BB		/	+	+	7	+	+	+	+	1			-	1				100						\dashv	-		
PL3-512 VP-513		1-27-11		1	R		1	+		1		+	+	+	J			,	1 Da		P								\dashv	1		
V1-313		1-21-11	1255		1			1					1						1	AM	Δ									-		
Relinquished By:	Date: Time: Received By: 1507 1-27-2017 Maure 7-										_	7	1	ICE	/t°_	2	8	102			8-		711	di		to	1	CO	мм	ENTS:		
many		1507	1-27-	2014	11	la	u	_				<u>/</u>	4	HE.	AD S	PAC	E A	ION BSE	NT_		-	,	X	600	b	20	55.	sle	evi	e5		
Relinquished By:		Date:	Time:	Rece	ived B	y:							GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB APPROPRIATE CONTAINERS COMMENTS: COMMENT																			
Relinquished By:	elinquished By: Date: Time: Received By:											ESEI					0	&G	MI pH-		LS	оті	IER									

TABLE #2 RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND STORAGE TANK INVESTIGATIONS

(See explanation on following page.)

	, ,	(36	е ехріапаці	JII OII IOIIOV	villy page.			_	
Tank Contents (Carbon Range)	Gasoline by 8015M or 8260B	Diesel by 8015M	BTEX by 8021B or 8260B	VOCs by 8260B ⁽¹⁾	Semi-VOCs by 8270C (2)	Oil & Grease by 1664A	PCBs by 8082	Total Lead by 7421	Title 22 Met
Unknown Fuel (C4-C36)	х	Х		Х				х	
Gasoline (C4-C20)	х			Х				X	
Diesel (C10-C36)		х	x	Х					
Jet Fuel/Kerosene (C9-C20)		X	X						
Heating Oil (C10-C32)		Х	х						
Stoddard Solvent (C8-C20) (Non-Chlorinated)		х		×					
Chlorinated Solvents				Х	Х				
Waste Oil or Unknown Contents	х	x		X	х	х	х		х

Notes

- EPA Method 8260B analyses must include all analytes listed in the method plus fuel oxygenates methyl-tertiary-butyl ether (MTBE), diisopropyl
 ether (DIPE), ethyl-tertiary-butyl ether (EtBE), tertiary-amyl-methyl ether (TAME), tertiary-butanol (TBA), methanol and ethanol and fuel additives
 1,2-dichloroethane (1,2-DCA) and ethylene dibromide (EDB or 1,2-dibromoethane).
- If pentachlorophenol (PCP) is identified, analyze the soil and/or water sample for dioxins and furans by EPA Method 8290 and pesticides by EPA Method 8081A.
- Method 6010B may be used for all but the following metals, for which individual AA methods are required: Antimony & Arsenic by 7062, Cadmium by 7131A, Lead by 7421, Mercury by 7471A, Nickel by 7521, Selenium by 7742, and Thallium by 7841.
- 4. Non-proprietary, performance based analytical methods may be used with approval of Regional Board staff

McCampbell Analytical, Inc.

_____ 1534 Willow Pass Rd

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pittsburg (925) 25	g, CA 94565-1701 52-9262					Work	Order:	1101	651	(Client	Code: E	NVC				
		WaterTrax	WriteOn	☐ EDF		Excel	[Fax	[✓ Email		Hard	Юору	Thi	rdParty	☐ J-	flag
Report to: Marc Papine Environment 5789 Gold C	tal Service	Email: m cc: PO:	arc_p@sbc	global.net			R8	-	ry pment n Road	i				uested e <i>Rece</i>		5 d 01/27/2	days 2011
Castro Valle 510-881-8574	y, CA 94552 FAX 510-581-7204	ProjectNo: #2	2010-035; 10	000 N. Vasco			Ha	yward,	CA 945	545			Dat	e Prin	ted:	01/27/	2011
								1 .				(See le			1		
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1101651-001	PL1-S1		Soil	1/27/2011 10:07			Α										
1101651-002	PL1-S2		Soil	1/27/2011 10:16			Α									Ī	
1101651-003	PL1-S3		Soil	1/27/2011 10:21			Α										
1101651-004	PL1-S4		Soil	1/27/2011 10:30			Α										
1101651-005	PL1-S5		Soil	1/27/2011 10:44			Α									Ī	
1101651-006	PL2-S6		Soil	1/27/2011 10:59		Α		Α									
1101651-007	PL2-S7		Soil	1/27/2011 11:11		Α		Α									
1101651-008	PL2-S8		Soil	1/27/2011 11:30		Α		Α									
1101651-009	PL3-S9		Soil	1/27/2011 11:53		Α		Α									
1101651-010	PL3-S10		Soil	1/27/2011 12:10		Α		Α									
1101651-011	PL3-S11		Soil	1/27/2011 12:32		Α		Α									
1101651-012	PL3-S12		Soil	1/27/2011 12:43		Α		Α									
1101651-013	VP-S13		Soil	1/27/2011 13:23		Α		Α									
Test Legend:																	
1 G-MB	TEX_S 2	GAS8260	_\$	3	TPH(D)_S		4						5			
6	7			8				9					[10			
11	12																
The following San	npIDs: 001A, 002A, 003A, 00	04A, 005A contair	n testgroup.										Prepa	red by:	Maria	a Venega	as

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.

Sample Receipt Checklist

Client Name:	Environmental Service	•			Date	and Time Received:	1/27/2011	3:30:05 PM
Project Name:	#2010-035; 1000 N. Va	sco			Chec	klist completed and r	eviewed by:	Maria Venegas
WorkOrder N°:	1101651 Matrix	Soil Soil			Carrie	er: <u>Client Drop-In</u>		
		<u>Chain o</u>	f Cu	stody (C	OC) Inform	ation		
Chain of custody	y present?	•	Yes	V	No 🗆			
Chain of custody	y signed when relinquished a	nd received? `	Yes	V	No 🗆			
Chain of custody	y agrees with sample labels?	•	Yes	✓	No 🗌			
Sample IDs noted	d by Client on COC?	•	Yes	✓	No 🗆			
Date and Time o	f collection noted by Client on	COC?	Yes	✓	No \square			
Sampler's name	noted on COC?	,	Yes	✓	No \square			
		San	nple	Receipt	Informatio	<u>n</u>		
Custody seals in	ntact on shipping container/co	oler?	Yes		No 🗆		NA 🔽	
Shipping contain	ner/cooler in good condition?	,	Yes	V	No 🗆			
Samples in prop	er containers/bottles?	•	Yes	✓	No 🗆			
Sample containe	ers intact?	•	Yes	✓	No 🗆			
Sufficient sample	e volume for indicated test?	,	Yes	✓	No 🗌			
	<u>s</u>	ample Preserv	atior	n and Ho	old Time (HT	「 <u>) Information</u>		
All samples rece	eived within holding time?	,	Yes	✓	No 🗌			
Container/Temp	Blank temperature	(Coole	r Temp:	2.8°C		NA \square	
Water - VOA via	ıls have zero headspace / no	bubbles?	Yes		No \square	No VOA vials subm	itted 🗹	
Sample labels c	hecked for correct preservation	on?	Yes	✓	No 🗌			
Metal - pH accep	otable upon receipt (pH<2)?	,	Yes		No \square		NA 🗹	
Samples Receiv	ed on Ice?	•	Yes	✓	No 🗆			
		(Ice Type:	WE	TICE)			
* NOTE: If the "I	No" box is checked, see com	ments below.						
=====	=======	=====		===	====	======	====	======
Client contacted:		Date contacted	d:			Contacted	by:	
Comments:								

Environmental Service	3	Date Sampled:	01/27/11
5789 Gold Creek Drive	Vasco	Date Received:	01/27/11
	Client Contact: Marc Papineau	Date Extracted:	01/27/11
Castro Valley, CA 94552	Client P.O.:	Date Analyzed:	01/28/11-01/31/11

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

	Gasonie Range (Co-C12) Volatie Hydrocarbons as Gasonie with D1EX and W1DE											
Extraction	on method: SW5030B	hod: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1101651									1101651	
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments	
006A	PL2-S6	S			ND	ND	ND	ND	1	77		
007A	PL2-S7	S			ND	ND	ND	ND	1	78		
008A	PL2-S8	S			ND	ND	ND	ND	1	77		
009A	PL3-S9	S			ND	ND	ND	ND	1	88		
010A	PL3-S10	S			ND<0.10	ND<0.10	ND<0.10	ND<0.10	20	84	d7	
011A	PL3-S11	S			ND<0.050	ND<0.050	ND<0.050	ND<0.050	10	77	d7	
012A	PL3-S12	S			ND<0.050	ND<0.050	ND<0.050	ND<0.050	10	78	d7	
013A	VP-S13	S			ND	ND	ND	ND	1	84		
_	ting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5		ug/L		
	eans not detected at or ve the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005		mg/K	Σg	

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

[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

- %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor
- +The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
- d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

_____Angela Rydelius, Lab Manager

A STATE OF THE STA			
Environmental Service	Client Project ID: #2010-035; 1000 N. Vasco	Date Sampled:	01/27/11
5789 Gold Creek Drive	Vasco	Date Received:	01/27/11
	Client Contact: Marc Papineau	Date Extracted:	01/27/11
Castro Valley, CA 94552	Client P.O.:	Date Analyzed:	01/29/11

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1101651													
	method: SW5030B	1 1		1	1				Work Order: 110165				
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments		
013A	VP-S13	S	ND		ND	ND	ND	ND	1	84			
	ing Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5		ug/I			
	ans not detected at or	S	1.0	0.05	0.005	0.005	0.005	0.005		mg/k			

^{*} water and vapor samples are reported in $\mu g/L$, soil/sludge/solid samples in mg/kg, wipe samples in $\mu g/wipe$, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

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

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:



[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

McCampbell Analytical, Inc.

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

	"When Ouality Counts"	Telephone: 8	Telephone: 877-252-9262 Fax: 925-252-9269							
Environmenta	al Service		-	#2010-035; 1000 N.	Date Sampled: 01/27/11					
5789 Gold Cre	eek Drive	Vas	.co		Date Received: 01/27/11					
		Clie	ent Contact: M	Iarc Papineau	Date Extract	ed: 01	/27/11			
Castro Valley	, CA 94552	Clie	ent P.O.:		Date Analyz	ed 01	/28/11-0	2/02/11		
		TPH		& Trap and GC/MS*						
Extraction method	SW5030B		Analytical r	methods SW8260B		Wo	rk Order:	1101651		
Lab ID	Client ID		Matrix	TPH(g)		DF	% SS	Comments		
001A	PL1-S1		S	2.9		1	107			
002A	PL1-S2		S	ND		1	113			
003A	PL1-S3		S	ND		1	109			
004A	PL1-S4		S	ND		1	109			
005A	PL1-S5		S	ND		1	110			
Re	porting Limit for DF =1;		W	NA			NA			
	means not detected at or bove the reporting limit	-	S	0.25			mg/kg	g		

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

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

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

Angela Rydelius, Lab Manager

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



			,, , ,	//
Environmental Service	Client Project ID: #	#2010-035; 1000 N.	Date Sampled:	01/27/11
5789 Gold Creek Drive	Vasco		Date Received:	01/27/11
	Client Contact: M	arc Papineau	Date Extracted:	01/27/11
Castro Valley, CA 94552	Client P.O.:		Date Analyzed:	01/28/11-02/02/11

Oxygenates, MBTEX & Lead Scavengers by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1101651

Extraction Method: SW5030B	Extraction Method: SW5030B Analytical Method: SW8260B								
Lab ID	1101651-001A	1101651-002A	1101651-003A	1101651-004A					
Client ID	PL1-S1	PL1-S2	PL1-S3	PL1-S4	Reporting DF				
Matrix	S	S	S	S		-1			
DF	1	1	1	1	S	W			
Compound	Compound Concentration								
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	0.005	NA			
Benzene	ND	ND	ND	ND	0.005	NA			
t-Butyl alcohol (TBA)	ND	ND	ND	ND	0.05	NA			
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.004	NA			
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	0.004	NA			
Diisopropyl ether (DIPE)	ND	ND	ND	ND	0.005	NA			
Ethanol	ND	ND	ND	ND	0.5	NA			
Ethylbenzene	ND	ND	ND	ND	0.005	NA			
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	0.005	NA			
Methanol	ND	ND	ND	ND	5.0	NA			
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	0.005	NA			
Toluene	ND	ND	ND	ND	0.005	NA			
Xylenes	ND	ND	ND	ND	0.005	NA			
	Surr	ogate Recoveries	s (%)						
%SS1:	92	97	99	98					
%SS2:	106	108	105	105					
Comments									

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



when Quanty	Counts		reiephone: a	6/7-252-9262 Fax: 92:	3-232-9209			
Environmental Service		Project ID: #2010-0	35; 1000 N.	Date Sampled:	01/27/11			
5789 Gold Creek Drive	Vasco)		Date Received: 01/27/11				
e, o, cold clock 21110	Clien	t Contact: Marc Pap	01/27/11					
Castro Valley, CA 94552	Client	P.O.:	01/28/11-02	2/02/11				
	Oxygenates, N	/IBTEX & Lead Sca	vengers by GC/N	MS*				
Extraction Method: SW5030B		Analytical Method: SW826			Work Order:	1101651		
Lab ID	1101651-005A							
Client ID	PL1-S5				Reporting			
Matrix	S				- DF	=1		
DF	1				S	W		
Compound		Conce	entration		mg/kg	ug/L		
tert-Amyl methyl ether (TAME)	ND				0.005	NA		
Benzene	ND				0.005	NA		
t-Butyl alcohol (TBA)	ND				0.05	NA		
1,2-Dibromoethane (EDB)	ND				0.004	NA		
1,2-Dichloroethane (1,2-DCA)	ND				0.004	NA		
Diisopropyl ether (DIPE)	ND				0.005	NA		
Ethanol	ND				0.5	NA		
Ethylbenzene	ND				0.005	NA		
Ethyl tert-butyl ether (ETBE)	ND				0.005	NA		
Methanol	ND				5.0	NA		
Methyl-t-butyl ether (MTBE)	ND				0.005	NA		
Toluene	ND				0.005	NA		
Xylenes	ND				0.005	NA		
	Sı	ırrogate Recoveries	s (%)					
%SS1:	97							
%SS2:	104							
Comments								

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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

Environmental Service	Client Project ID: #2010-035; 1000 N.	Date Sampled: 01/27/11
5789 Gold Creek Drive	Vasco	Date Received: 01/27/11
	Client Contact: Marc Papineau	Date Extracted: 01/27/11
Castro Valley, CA 94552	Client P.O.:	Date Analyzed 01/29/11-02/01/11

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3550B Analytical methods: SW8015B Work Order: 1101651

Extraction method SW	/3550B	Analytica	al methods: SW8015B		Work Orde	er: 1101651
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1101651-006A	PL2-S6	S	ND	1	117	
1101651-007A	PL2-S7	S	ND	1	116	
1101651-008A	PL2-S8	S	ND	1	115	
1101651-009A	PL3-S9	S	ND	1	115	
1101651-010A	PL3-S10	S	1400	10	99	e1
1101651-011A	PL3-S11	S	3200	20	102	e1
1101651-012A	PL3-S12	S	2700	20	97	e1
1101651-013A	VP-S13	S	ND	1	109	
	g Limit for DF =1;	W	NA		N.	A
	s not detected at or the reporting limit	S	1.0		mg	/Kg

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e1) unmodified or weakly modified diesel is significant

Angela Rydelius, Lab Manager

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

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55830 WorkOrder 1101651

EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					5	Spiked Sar	nple ID	: 1101628-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
7 may to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)	ND	0.60	114	122	6.57	114	116	1.74	70 - 130	20	70 - 130	20
MTBE	ND	0.10	116	118	2.21	109	114	4.39	70 - 130	20	70 - 130	20
Benzene	ND	0.10	93.6	95.1	1.55	92.5	95.5	3.21	70 - 130	20	70 - 130	20
Toluene	ND	0.10	90.3	91.5	1.32	89.3	92	2.99	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	90.1	91.3	1.33	89.3	91.6	2.48	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	89	90.3	1.36	88.9	92.1	3.50	70 - 130	20	70 - 130	20
%SS:	103	0.10	76	80	4.90	86	86	0	70 - 130	20	70 - 130	20

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

BATCH 55830 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101651-006A	01/27/11 10:59 AM	1 01/27/11	01/28/11 8:53 PM				

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

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

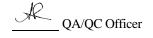
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55865 WorkOrder 1101651

EPA Method SW8021B/8015Bm	Extrac	ction SW	5030B					S	Spiked San	nple ID	: 1101648-0	02A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
7 thaty to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)	ND	0.60	99.9	89.5	11.0	97.2	95.4	1.82	70 - 130	20	70 - 130	20
MTBE	ND	0.10	121	117	3.33	112	114	1.16	70 - 130	20	70 - 130	20
Benzene	ND	0.10	97.5	99.9	2.49	103	101	1.80	70 - 130	20	70 - 130	20
Toluene	ND	0.10	94.6	97.2	2.70	99.1	98.1	1.09	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	95.9	98.5	2.66	100	98.6	1.77	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	99	101	2.15	103	101	1.94	70 - 130	20	70 - 130	20
%SS:	86	0.10	99	102	3.40	102	105	2.77	70 - 130	20	70 - 130	20

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

BATCH 55865 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101651-007A	01/27/11 11:11 AM	01/27/11	01/28/11 9:54 PM	1101651-008A	01/27/11 11:30 AM	01/27/11	01/28/11 11:55 PM
1101651-009A	01/27/11 11:53 AM	01/27/11	01/29/11 4:25 AM	1101651-010A	01/27/11 12:10 PM	01/27/11	01/31/11 7:28 PM
1101651-011A	01/27/11 12:32 PM	01/27/11	01/31/11 9:59 PM	1101651-012A	01/27/11 12:43 PM	01/27/11	01/31/11 10:59 PM
1101651-013A	01/27/11 1:23 PM	01/27/11	01/29/11 2:25 AM				

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

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

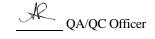
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55870 WorkOrder 1101651

EPA Method SW8260B	Method SW8260B Extraction SW5030B Spiked Sample ID: 1101651-005A										05A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	Acceptance Criteria (%)		
7 mary to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	79.1	78.4	0.883	76.6	76.7	0.189	70 - 130	30	70 - 130	30
Benzene	ND	0.050	113	114	0.921	115	113	1.58	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	86.2	85.7	0.606	93.6	95.9	2.42	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	102	102	0	101	100	0.827	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	97.4	97.5	0.0152	93.5	87.7	6.31	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	103	103	0	110	107	2.90	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	92.9	92.2	0.722	94	91.7	2.45	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	98.3	98.2	0.105	102	101	1.40	70 - 130	30	70 - 130	30
Toluene	ND	0.050	119	118	0.370	128	123	3.79	70 - 130	30	70 - 130	30
%SS1:	97	0.13	88	88	0	96	97	0.430	70 - 130	30	70 - 130	30
%SS2:	104	0.13	111	110	0.435	104	103	1.39	70 - 130	30	70 - 130	30

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

BATCH 55870 SUMMARY

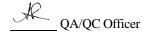
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101651-001A	01/27/11 10:07 AM	01/27/11	01/28/11 3:58 PM	1101651-001A	01/27/11 10:07 AM	01/27/11	02/02/11 2:05 PM
1101651-001A	01/27/11 10:07 AM	01/27/11	02/02/11 9:06 PM	1101651-002A	01/27/11 10:16 AM	01/27/11	01/28/11 4:40 PM
1101651-002A	01/27/11 10:16 AM	01/27/11	01/28/11 4:40 PM	1101651-003A	01/27/11 10:21 AM	01/27/11	01/28/11 5:22 PM
1101651-003A	01/27/11 10:21 AM	01/27/11	01/28/11 5:22 PM	1101651-004A	01/27/11 10:30 AM	01/27/11	01/28/11 6:05 PM
1101651-004A	01/27/11 10:30 AM	01/27/11	01/28/11 6:05 PM	1101651-005A	01/27/11 10:44 AM	01/27/11	01/28/11 6:47 PM
1101651-005A	01/27/11 10:44 AM	01/27/11	01/28/11 6:47 PM				

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

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

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery. The LCS and LCSD are spikes into a clean, known, similar matrix and they and the surrogate standards reflect the overall validity of their extraction batch. Our control limits are 70-130% recovery and a 30% RPD for the LCS-LCSD and for the Surrogate Standards.

DHS ELAP Certification 1644



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55831 WorkOrder 1101651

EPA Method SW8015B Extraction SW3550B Spiked Sample ID: 1101603-001										001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	1
7 tildiyto	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	190	40	116	124	1.43	117	116	0.502	70 - 130	30	70 - 130	30
%SS:	93	25	99	108	8.76	82	80	1.50	70 - 130	30	70 - 130	30

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

BATCH 55831 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101651-006A	01/27/11 10:59 AM	01/27/11	01/30/11 6:26 AM	1101651-007A	01/27/11 11:11 AM	01/27/11	01/29/11 11:09 PM
1101651-008A	01/27/11 11:30 AM	01/27/11	01/30/11 12:22 AM	1101651-009A	01/27/11 11:53 AM	01/27/11	01/30/11 1:35 AM
1101651-010A	01/27/11 12:10 PM	01/27/11	02/01/11 2:22 AM				

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

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55869 WorkOrder 1101651

EPA Method SW8015B Extraction SW3550B Spiked Sample ID: 1101651-013)13A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	١
, and y to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	2.8	40	90.1	90.2	0.0600	117	117	0	70 - 130	30	70 - 130	30
%SS:	105	25	106	106	0	81	80	0.892	70 - 130	30	70 - 130	30

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

BATCH 55869 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101651-011A	01/27/11 12:32 PM	01/27/11	02/01/11 5:18 AM	1101651-012A	01/27/11 12:43 PM	01/27/11	02/01/11 6:57 AM
1101651-013A	01/27/11 1:23 PM	01/27/11	02/01/11 5:47 AM				

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

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Ouality Counts"

Environmental Service	Client Project ID: #2010-035; 1000 N. Vasco	Date Sampled: 01/27/11
5789 Gold Creek Drive		Date Received: 01/27/11
6767 GOIG CLOCK 21170	Client Contact: Marc Papineau	Date Reported: 02/03/11
Castro Valley, CA 94552	Client P.O.:	Date Completed: 02/07/11

WorkOrder: 1101651 A

February 10, 2011

D	3 4	-
Dear	M	arc:

Enclosed within are:

- 1) The results of the 5 analyzed samples from your project: #2010-035; 1000 N. Vasco,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager

McCampbell Analytical, Inc.

1101651.

McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD						т	UR	N	AR	OU					C	US		OI	Y	R	EC	0	RD									
PITTSBURG, CA 94565-1701 Website: www.mccampbell.com Email: main@mccampbell.com																	RUS	Н		HR		48 F			HR							
Telephone: (877) 252-9262 Fax: (925) 252-9269							-	1 G	eo'l	ra	cke	r E								effl						(DW) required						
Report To: MRAPINE AND BILL TO: RZ B Equipment						\exists		T				A				ues	_							ther	-	Comments						
Company: Company	vommente	I se	STIVY		1	tay	AC.	M	01.	1		_	5-3	2	6	77				ers			35						BE	9/0	h	Filter
	9 GOLO (J		_			-	_	MTBE	3	/8&1					uage									ME	the fre	3	Samples
	RO VALL					narc					JIN	e7	200	0	\$20 E					00/						(07)	20)		X	71	1	for Metals
Tele: (570) 8 Project#: 201			F	ax: (5/C) 5 g	60	72	04	10-			8015)	4	Grease (1664 / 5520 E/B&F)	8.1)	(8)	8021)		clors		des)			48)	0 / 60	09/0		RIE	ad	200	analysis:
Project Location:			no P	1 /	Au	id.	3	0	0	VC	SC	9	170	三	991)	18 (41	(H)	05/	ides)	Aro	(s	rbici		(\$	/PN/	/ 601	109/	(02	5/18	5	2	Yes / No
Sampler Signatur	e: M.	Mari	NO KO	0	rA?)	JV T)	1-1			\dashv	2 / 8	1	rease	rpou	021	PA 6	estic	NLY.	icide	H	000	000	AHs	8.000	8.00	/ 602	8	4.	1,	
	man		LING				ATF	RIX			ног		18 (60	2		Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MITBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 + 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	525.2 / 625 / 8270 (SVOCs)	8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200,7 / 200,8 / 6010 / 6020)	8 0	70		
	LOCATION/	DI KIVAL	DII. (G	SLS	Fype Containers				PF	RESI	ERVI	ED	as G	8015	Total Petroleum Oil &	n Hy	1/80	ONI	8081	PCB	S.	(Ac	1/82	5 / 82	1/83	s (20)	(200	8.00	100	0		
SAMPLE ID	Field Point			Containers	onta								LFH	iesel	oleur	oleur	09/3	TEX	/809	8082	814	815	7 62	7 62	SIN	fetal	fetals	7/2	87	6hx		
	Name	Date	Time	ont	C	ter		dge	اء	Г	O	e	X &	TPH as Die	Petr	Petr	502.2	£/B	205/	4809	201/	515/	524.2	525.2	8270	17.1	rs N	(200	PAS	0		
				#C	Typ	Water	Air	Sludge	E	HCL	HNO3	Other	BTEX &	TPH	Total	Total	EPA	F	EPA	EPA	EPA	EPA	EPA	EPA	EPA	CAM	LUF	Lead	EP	+		
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P21-54		1-27-11		1	B	1			1			\forall		X															1		\forall	
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PLZ-56			1059	1	B	1			1			\forall		I	7			J					7							\top	7	
PL2-57		1-27-11		,	B	V			1/			\forall		1				1													1	
PL2-58		1-27-11	4	i	B	1			V			\forall		1				J														
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many		1507	1-27-	2014	10	lan	u	u	-		1			OD O				NT		D -	1	×	AC O	h	000		s/e	evi	es			
Relinquished By:		Date:	Time:	Rece	ived By	/:							GOOD CONDITION D - Z deameter HEAD SPACE ABSENT XG ii brass sleeves DECHLORINATED IN LAB APPROPRIATE CONTAINERS																			
Relinquished By:		Date:	Time:	Recei	ived By	v:		_		_							LAB															
reanquisited by:		Date.	· mic.	Acce	red B												vo	AS	08	G	ME	TAL	s	ОТН	IER							
													PRI	ESEF	RVA'	LIO					pH<					_						

McCampbell Analytical, Inc.

1534 Willow Pass Rd Pittsburg, CA 94565-1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pittsburg, CA (925) 252-926					V	VorkO	rder:	110165	1 A	(ClientC	Code: E	ENVC					
		WaterTrax	WriteO	n EDF		Excel	[Fax		✓ Email		Hard	Сору	Thir	dParty	☐ J-f	lag	
5789 Gold Creek Castro Valley, CA	larc Papineau Email: marc_p@sbcglobal.net nvironmental Service cc: 789 Gold Creek Drive PO: astro Valley, CA 94552 ProjectNo: #2010-035; 1000 N. Vasco						Bill to: Rick Jeffery R&B Equipment 2215 Dunn Road Hayward, CA 94545							Requested TAT: Date Received: Date Add-On: Date Printed:				
									Requ	uested	Tests (See leg	gend be	elow)				
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	
1101651-001	PL1-S1		Soil	1/27/2011 10:07		Α												
1101651-002	PL1-S2		Soil	1/27/2011 10:16		Α												
1101651-002 1101651-003	PL1-S2 PL1-S3		Soil Soil	1/27/2011 10:16 1/27/2011 10:21		A A												

Test Legend:

1 TPH(D)_S	2	3	4	5
6	7	8	9	10
11	12			
		_		

Prepared by: Maria Venegas

Comments: TPH(d) added 2/3/11 5 day per email

> 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.

"When Ouality Counts"

Environmental Service Client Project ID: #2010-035; 1000 N. Date Sampled: 01/27/11 Vasco Date Received: 01/27/11 5789 Gold Creek Drive Client Contact: Marc Papineau Date Extracted: 02/03/11 Client P.O.: Castro Valley, CA 94552 Date Analyzed 02/03/11-02/05/11

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3550B Analytical methods: SW8015B Work Order: 1101651

Extraction method 5 w	33300	Aliaiyii	cai illetilous: Sw 8013B		WOLK OLD	er: 1101631			
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments			
1101651-001A	PL1-S1	S	4.0	1	119	e2,e4			
1101651-002A	PL1-S2	S	ND	1	118				
1101651-003A	PL1-S3	S	1.5	1	115	e2			
1101651-004A	PL1-S4	S	1.3	1	110	e7			
1101651-005A	PL1-S5	S	ND	1	117				
	Reporting Limit for DF =1;		NA		NA				
	s not detected at or he reporting limit	S	1.0		mg	/Kg			

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

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

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

- +The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
- e2) diesel range compounds are significant; no recognizable pattern
- e4) gasoline range compounds are significant.
- e7) oil range compounds are significant

Angela Rydelius, Lab Manager

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55921 WorkOrder 1101651

EPA Method SW8015B Extraction SW3550B Spiked Sample												10A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
, analyto	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	40	122	124	1.98	112	112	0	70 - 130	30	70 - 130	30
%SS:	118	25	86	86	0	97	97	0	70 - 130	30	70 - 130	30

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

BATCH 55921 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101651-001A	01/27/11 10:07 AM	02/03/11	02/04/11 8:03 PM	1101651-002A	01/27/11 10:16 AM	02/03/11	02/04/11 9:15 PM
1101651-003A	01/27/11 10:21 AM	02/03/11	02/05/11 12:42 AM	1101651-004A	01/27/11 10:30 AM	02/03/11	02/03/11 8:59 PM
1101651-005A	01/27/11 10:44 AM	02/03/11	02/04/11 11:34 PM				

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

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical,	Inc.
"When Quality Counts"	

Environmental Service	Client Project ID: #2010-035; 1000 N. Vasco	Date Sampled: 01/27/11
5789 Gold Creek Drive		Date Received: 01/27/11
3769 Gold Creek Blive	Client Contact: Marc Papineau	Date Reported: 02/03/11
Castro Valley, CA 94552	Client P.O.:	Date Completed: 01/31/11

WorkOrder: 1101653

February 03, 2011

D	3 4	-
Dear	M	arc:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: #2010-035; 1000 N. Vasco,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager

McCampbell Analytical, Inc.

1101653

M N	McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701 Website: www.mccampbell.com Email: main@mccampbell.com						Т	UR	IN.	AR						C	US	ST	OI	Y	R	EC	CO)	0								
We Tel	ebsite: <u>www.m</u> ephone: (877	ccampbel	l.com En	nail: n	nain@ Fax:	mccs (92	amp 5) 2	bell 252-	.com 9269			Logge								DF	,		PD	F		E		1		Wı	rite		(DW) s required	
Report To: M	PAPINE	AU	I	Bill To	o: R	28	E	au	IPM	EN	7								A	nal	ysis	Rec	lues	t						, (the	r	Comments	s
Company: PN	Wonmen	talce	NRE		H	440	NA	1R	0	OA						-					LS									88			Filter	
5799	Gran C	REEK	DK-											LBE		B&F					Вене									IM			Samples	
CASTI	20 VALLE	CY OX	1	E-Mai	il: m	arc	E	90	she	9/0	ba	In	ct	M		0 E/I					Com						6	6		TEX			for Metals	
Tele: (570) 8	81-8574		F	ax: (570) 5	3/	-7	200	4				8015) / MTBE		552	-	(\$	G.		S		-				602	6020					analysis:	
CASTI Tele: (570) 88 Project #:20 00	035		F	rojec	t Nar	ne:	10	00	N.	Va	50	0		*		264	418.	,0C	/ 80	(s	rock		cide			NAs)	010	10/		100			Yes / No	
Project Location:	10001	I, VASO	O RO	. L	IVE	RM	OR	F.	CA					/8021+		e (10	ns (4	€	602	cide	(; A)	es)	erbi	(\$	3	/ P!	8 / 61	1 60	020	Gar				
Project Location: Sampler Signatur	e: Man	PRO	inea	Ch	nAs			,						(602 / 8		reas	arbo	8021	EPA.	Pesti	NE	ticid	CIH	/OC	0.05	AHS	2007	8.003	9/0	200				
	•	/	LING					TR		l N		HO		Gas (60	15)	Jil & G	lydroc	8010/	NLY ()	81 (CI	CB's 0	8141 (NP Pesticides)	Acidic	8260 (1	8270 (S	8310 (P	7 / 1007	00.7/2	8 / 6010	500				
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	Containers	Type Containers	Water	ii.	٦,	Sludge	ICE	HCL	HNO ₃	Other	BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	PA EZL				
				#	Ę	3	Soil	Air	2 0	2	Ĭ	Ξ	Ō	BT	TP	Tot	Tol	EP	7	EP	EP	EP	EP	EP	EP	EP	2	LU	Les	W				
STK-PL3 STK-PL2	stockpi'le	1-27-11	1301	\	B		V			J					1				1	,														
STK-PLZ	stockrile	1-27-11	1306	1	B		/			1					1				1															
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McCampbell Analytical, Inc.

Report to:

Marc Papineau

Environmental Service

5789 Gold Creek Drive

Castro Valley, CA 94552

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

CHAIN-OF-CUSTODY RECORD

ClientCode: ENVC

Page 1 of 1

Date Received: 01/27/2011

Date Printed: 01/27/2011

WorkOrder: 1101653

marc_p@sbcglobal.net Rick Jeffery Email: R&B Equipment 2215 Dunn Road ProjectNo: #2010-035; 1000 N. Vasco Hayward, CA 94545

510-881-8574 FAX 510-581-7204 cc:

PO:

					Requested Tests (See legend below)												
Lab ID	Client ID	Matrix	Collection Date H	lold	1	2		3	4	5	6	7	8	9	10	11	12
	OTIV DI S		1.10=100111101	$\overline{}$		Τ.							I	I			I
1101653-001	STK-PL3	Soil	1/27/2011 13:01	ш	Α	Α											
1101653-002	STK-PL2	Soil	1/27/2011 13:06		Α	Α											

Test Legend:

				
1 G-MBTEX_S	2 TPH(D)_S	3	4	5
6	7	8	9	10
11	12			
				D 11 M 1 W
				Prepared by: Maria 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.

Sample Receipt Checklist

Client Name:	Environmental Service				I	Date a	and Time Received:	1/27/2011	4:06:48 PM
Project Name:	#2010-035; 1000 N. Vas	co			(Checl	klist completed and r	eviewed by:	Maria Venegas
WorkOrder N°:	1101653 Matrix	<u>Soil</u>			(Carrie	er: <u>Client Drop-In</u>		
		Chain o	f Cu	stody (C	COC) Int	orma	ation		
Chain of custody	y present?	١	⁄es	V	No				
Chain of custody	y signed when relinquished and	I received?	⁄es	V	No				
Chain of custody	y agrees with sample labels?	١	⁄es	V	No				
Sample IDs noted	d by Client on COC?	١	⁄es	V	No				
Date and Time o	f collection noted by Client on Co	OC?	⁄es	V	No				
Sampler's name	noted on COC?	١	⁄es	V	No				
		<u>Sam</u>	nple	Receipt	t Inform	atior	<u>n</u>		
Custody seals in	tact on shipping container/cool	er?	⁄es		No			NA 🗹	
Shipping contain	er/cooler in good condition?	١	⁄es	V	No				
Samples in prop	er containers/bottles?	١	⁄es	~	No				
Sample containe	ers intact?	١	⁄es	✓	No				
Sufficient sample	e volume for indicated test?	١	⁄es	✓	No				
	<u>Sar</u>	mple Preserva	ation	and Ho	old Time	e (HT	<u>) Information</u>		
All samples rece	ived within holding time?	١	⁄es	✓	No				
Container/Temp	Blank temperature	C	Coole	r Temp:	2.8°C			NA \square	
Water - VOA via	ıls have zero headspace / no b	ubbles?	⁄es		No		No VOA vials subm	itted 🗹	
Sample labels cl	hecked for correct preservation	? \	⁄es	~	No				
Metal - pH accep	otable upon receipt (pH<2)?	١	⁄es		No			NA 🔽	
Samples Receiv	ed on Ice?		es	V	No				
		(Ice Type:	WE	TICE)				
* NOTE: If the "I	No" box is checked, see comm	ents below.							
=====				===	===	==		====	
Client contacted:		Date contacted	l:				Contacted	by:	
Comments:									

Environmental Service	Client Project ID: #2010-035; 1000 N. Vasco	Date Sampled:	01/27/11
5789 Gold Creek Drive	Vasco	Date Received:	01/27/11
	Client Contact: Marc Papineau	Date Extracted:	01/27/11
Castro Valley, CA 94552	Client P.O.:	Date Analyzed:	01/28/11-01/29/11

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

Gasonne Range (Co-C12) Volathe Hydrocarbons as Gasonne with D1EX and W11DE												
Extraction	on method: SW5030B			Analyt	tical methods: S	SW8021B/8015	Bm		Worl	k Order:	101653	
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments	
001A	STK-PL3	S			ND	ND	ND	0.036	1	85	ď7	
002A	STK-PL2	S			ND	ND	ND	ND	1	99		
	rting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5		ug/L		
	eans not detected at or we the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005		mg/K	g	

^{*} water and vapor samples are reported in $\mu g/L$, soil/sludge/solid samples in mg/kg, wipe samples in $\mu g/wipe$, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

- %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor
- +The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
- d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram



[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

Environmental Service	Client Project ID: #2010-035; 1000 N. Vasco	Date Sampled: 01/27/11
5789 Gold Creek Drive	vasco	Date Received: 01/27/11
	Client Contact: Marc Papineau	Date Extracted: 01/27/11
Castro Valley, CA 94552	Client P.O.:	Date Analyzed 01/30/11-01/31/11

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3550B Analytical methods: SW8015B Work Order: 1101653

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments		
1101653-001A	STK-PL3	S	380	20	99	e1,e7		
1101653-002A	STK-PL2	s	1.2	1	108	e2		
	rting Limit for DF =1;	W	NA		N	A		
	eans not detected at or ve the reporting limit	S	1.0		mg	/Kg		

* water samples are reported in µg/L	wipe samples in $\mu g/wipe$, soil/solid/sludge samples in mg/kg , product/oil/non-aqueous liquid samples in mg/kg
and all DISTLC / STLC / SPLP / TO	LP extracts are reported in ug/L.

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

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

Angela Rydelius, Lab Manager

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

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55865 WorkOrder 1101653

EPA Method SW8021B/8015Bm	Extra	tion SW	5030B					Spiked Sample ID: 1101648-002A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)		
7 may to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(btex)	ND	0.60	99.9	89.5	11.0	97.2	95.4	1.82	70 - 130	20	70 - 130	20	
MTBE	ND	0.10	121	117	3.33	112	114	1.16	70 - 130	20	70 - 130	20	
Benzene	ND	0.10	97.5	99.9	2.49	103	101	1.80	70 - 130	20	70 - 130	20	
Toluene	ND	0.10	94.6	97.2	2.70	99.1	98.1	1.09	70 - 130	20	70 - 130	20	
Ethylbenzene	ND	0.10	95.9	98.5	2.66	100	98.6	1.77	70 - 130	20	70 - 130	20	
Xylenes	ND	0.30	99	101	2.15	103	101	1.94	70 - 130	20	70 - 130	20	
%SS:	86	0.10	99	102	3.40	102	105	2.77	70 - 130	20	70 - 130	20	

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

BATCH 55865 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101653-001A	01/27/11 1:01 PM	M 01/27/11	01/29/11 3:55 AM	1101653-002A	01/27/11 1:06 PM	01/27/11	01/28/11 11:11 PM

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

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

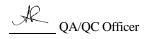
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 55869 WorkOrder 1101653

EPA Method SW8015B	Extra	tion SW	3550B			S	Spiked Sample ID: 1101651-013A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
raidiyto	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	2.8	40	90.1	90.2	0.0600	117	117	0	70 - 130	30	70 - 130	30
%SS:	105	25	106	106	0	81	80	0.892	70 - 130	30	70 - 130	30

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

BATCH 55869 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101653-001A	01/27/11 1:01 PM	1 01/27/11	01/30/11 7:39 AM	1101653-002A	01/27/11 1:06 PM	01/27/11	01/31/11 10:28 AM

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

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer

APPENDIX L

CHROMATOGRAMS FOR PIT WATER SAMPLES

File : D:\HPCHEM\GC7\DATA\01211129.D

Operator :

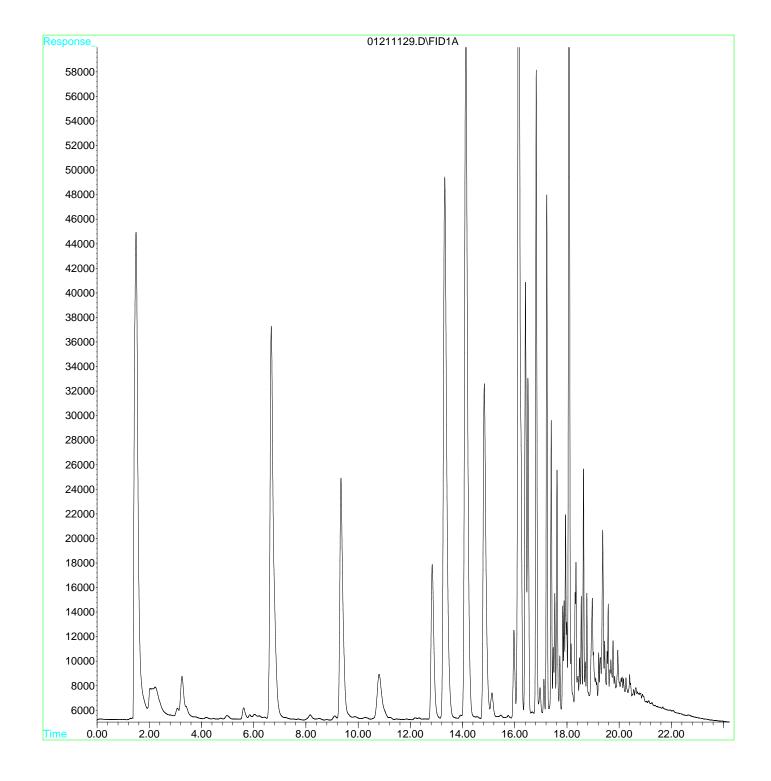
Acquired : 22 Jan 2011 1:16 am using AcqMethod GC7L.M

Instrument: GC-7

Sample Name: 1101510-002A W 72 HR

Misc Info : G-MBTEX_W

Vial Number: 29



File : D:\HPCHEM\GC6\DATAA\01241120.D

Operator :

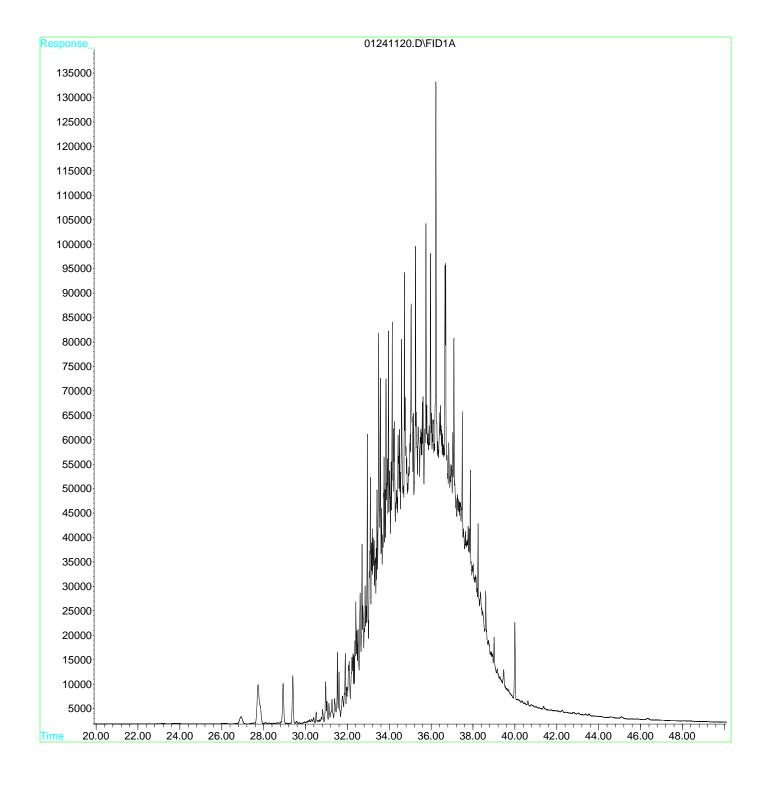
Acquired : 24 Jan 2011 10:09 pm using AcqMethod GC6A50C.M

Instrument: GC-6

Sample Name: 1101510-001A W RR

Misc Info : TPH(D)_W

Vial Number: 10



APPENDIX M

LOGS OF BORINGS AND CONE PENETRATION TEST SOUNDINGS

H2OGEOL, 1995 LOGS WITH WELL CONSTRUCTION DIAGRAMS

	H ₂ ()G	EOI	. 0				BOREHO	LE I	LITHO	DLOC	GIC	LOG			7
123	GROUND W							BOREHOLE No.		MW-1		Sheet	1 of	1	_	
-			0.7	/17-18/9	ε		Drilling	Co. ASE Dri	illing		Drill Mo	del	Iwan A	ucer.		4
Project	Geno's Cou			/1/-18/8	0		1 ~	Method - Hand C			Borehole			6.25-in	_	
ſ	n: 1000 Nor						1	Surface Elevatio		526.3				surface	_	1
Location								e MW-1 was co							_	1
Logged	by: GD		Driller:	RCV/GI	DL		Borenoi	e WW-1 Was co	трюсео	as a mor	morning	Well MI				
						Water L	.evel	8.68								
ę						Time		8:45								
Sampling Blowcounts	PID/FID HNu/OVA reading	c 1	6.8 6.8		S D	Date		7/24/95								٦
Sami	FINE	test fest	Soil Sample Number	Grap Soll Sym	Sol			Fie	ild Soil I	Descriptio	n					_
					CL	Landsca	pe fill. d	ark brown 7.5YF	R 3/4 ve	ry sandy	silty cla	γ.			- 2	T
		.1			-	Olive EV	/ 4/3 015	velly sandy silty	nlav n	abbles to	2 cm			-	S S	,
	-	2	1	- '//	CL/	Olive 61	4/3 g/8	very sandy salty	viey, pe	20000 10	2 0:11				2-inch PVC casing and screen.	1
		2			СН										S C	1
	-	3-	_										Nest Ce	ment Grout	asin	.
						Dark ye	liowich b	rown 10YR 3/4	elity stif	Holay. Fa	int dies	el odor.		1	8 a	
	\Box	4											- Bar	ntorite Seal	图 3	
-	-	5-	_		СН									ALD THE GOLD	Cre	
		6-				Trace g	ravels								3	1
		7	7-7.5 F													
		8						5 5/1 mottled ye fine to medium				graveliy			<i></i>	
_	\vdash	<u>,</u> †		图题		very.com	ayey von	Time to mediam	00170.7		ountered	Water at	8.8 Feet.	∇ -	8	
		9		1		Decreas	ing clay	with depth							eer	HILL
	1	10-+			sc	No odor	from 10	foot to total de	pth.						8	
	1	1_			í										E	4
	<u> </u>	' F	_			Yallowis	sh brown	10YR 5/6 claye	v verv f	ine to me	dium sa		DNESTAR	No. 3 Send	Seg	
	1	12-				TOMOTTI			, ,,,,						-	1
		13 -	-	100000		Vallaudi	ah hensam	10YR 5/6 very	tina to I	pedium e	hne					
_	_			1000000	sw	renowi	iii biown	701H 0/0 Very		nautum tu	oriu.				screen openings = 0.020 inch	
		14—			сн	Yellowin	sh brown	10YR 5/8 stiff of	clay.							Ē
-	 	15-	-		sc	Yellowin	th brown	10YR 5/6 very	clavev v	very fine t	o mediu	m sand				
		16-		Section 1	-	7 0.00 1711		211.010 1017	,.,			Total We	d Depth =			
				Total D	epth 16;8					NAME &	ompleted w			nce mark)		
	1-1	17-	-	. Ibelow.						FYEE Z	or thereo.	- TO HICH	www pipe	ype cover.		
		18-								,				-		
	\vdash			4								_				
		19-		1												
		20-	-		1											
		-	-	-												
	1 2	21-		1												
		22		- '					_							
	-	-	+-		(
	1	23—														
	-2	24		-									_			
	-) F	_	1						_	_	_		-		

BOREHOLE LITHOLOGIC LOG																1	
_	,	-		NSu≒TA					BOREHOLE No.	MW-	2	Shee	t 1 of	1	_		
Project	No.:		Dat	te: 07	7/17-18/9	5		Drilling	Co. ASE Dri	lling	Drill Mo	del	Iwan A	uger	_	1	
Client:	Geno's	Country	Stor	e				Drilling	Method - Hand C	peration	Boreho	e Diam	eter	6.25-In	_		
Locatio	n: 1000	North V	8800	Road				Ground	Surface Elevatio	n 526.6		Datum	ground	surface	_		
	Live	more, C	alifor	mia				Borehol	e MW-2 was co	mpleted as a m	onitoring	well M	W-2			1	
Logged	by:	GDL	Dril	ier:	RCV/GI	DL							_			+	
							Water i	.evel	8.17							4	
uts	⋖						Time	Time 8:43									
Sampling Blowcounts	PID/FID HNu/OVA	£	De	8 ja	phic bol	8 8	Date	Date 7/24/95									
San	문문	25	San	Sea	Graphic Soil Symbol	USCS Soil Symbol			Fie	ld Soil Descript	tion					4	
]		=		CL	Landsca	andscape fill, dark brown 7.5YR 3/4 very sandy silty clay.									
		-1-	\vdash	-			Dark ve	k yellowish brown 10YR 3/4 silty stiff clay.									
		2		\vdash			Dark ye	IIIO WIGHT E	10111 014	anty bini city.					2-inch PVC casing and screen	ľ	
					1 23 200										S C	ı	
-		-3	\vdash										Neat Ce	ement Grout	asin Sign	ľ	
					-	СН									in G	ı	
		-		-			Trace g	ravels					Ber	ntonite Seel	图 3		
		-5-	-	_	1.80								200	THE STATE OF THE S	: Ecre	Г	
		-6-			NS.										reen	1	
	_	_	\vdash	_	* 3903 Miles											1	
		-7-		7-7.6 Ft			Dark ye	llowish b	rown 10YR 3/4,	gravelly very c	layey ver	y				1	
		8		_			fine to	medium (sand.	First Fre	pountered V	Vater at 1	R.35 Feet	$\overline{\nabla}$			
		_	\vdash	_	-	1		First Encountered Water at 8.35 Feet.									
		9														1	
		-10		-	-8.55	sc									E G	1	
		11-															
		[''-	\vdash	=								L	ONESTAR	No. 3 Send	l ligg		
		-12-	\vdash	_	20000000000000000000000000000000000000										==	1	
		13					Dark ye	llowish b	rown 10YR 4/4 a	andy clay.					8	4	
			-	_	100	CL						_			screen openings = 0.020 inch		
		-14-				-									3	1	
		-15-			Per la	matt 15 C											
			-	-	(below	epth 15.1 grade)						Total W	el Depth =	15.26 Feet		1	
		16			1							(be	low refere	nce mark)			
-11800000		-17-									completed v	eith 6-inch	stove pipe	type cover.			
		40			•												
		-18-]												
		-19-	-	_	-												
		-20-			1												
-					-												
		-21-	-		1												
		-22-			1												
			_	-		-											
		-23			1												
		-24-			.												
		0.5	-	-	1												

-	Н2								BOREHO	DLE								
٨	GROUN	D WATER	S CO	NSULTAI	NC.				BOREHOLE No.		MW-3		Sheet	1 of	1			
Project	No.:		Dat	e: 07	/18-19/9	5		Drilling	Co. ASE Dri	illing		Drill Mod		Iwan A		_		
Client:	Geno's	Country	Ston	e				Drilling	Method - Hand C	peratio		Borehole			6.25-in	_]		
Locatio	n: 1000 l	North V	asco	Road				Ground	Surface Elevatio	n	626.3		Datum:	ground	surface	_		
	Liver	more, C	allfon	nia				Borehol	e MW-3 was co	mplete	d as a mor	itoring	well M	W-3				
Logged	by:	GDL	Drill	er:	RCV/G	DL								_				
							Water L	ieve.	7.60					_				
str.	×						Time		8:40									
Sampling Blowcounts	PID/FID HNu/OVA reading	to de to	ambie	ample Jmber	Graphic Soil Symbol	SCS	Date		7/24/95		D last							
88	프포함	28	Ö	めめえ	<i>ලහර</i> 7	⊃000°	Concret	a O E fa	et, beserock 0,3		Description	n				T N		
		4			30,900,00											2-inch PVC casing and screen.		
							Dark ye	erk yellowish brown 10YR 3/4 stiff clay.										
		2-	-	-		CH												
		3						C. L. L. L. L. C.										
		- 3	-			CH		fellowish brown 10YR 5/6 sandy stiff clay. Neat Cement Grout										
		4-	+			1		ncreasing sand content with depth. Yellowish brown 10YR 5/6 clayey sand.										
		5					N-HI	Bentonite Seni										
		6				sc		Cellowish brown 10YR 5/4 clayey sand. Decreasing clay with depth.										
			\vdash			Y E												
		7-		7-7:6 Ft														
		8		_		SC/ SW	Vellowie	First Encountered Water at 7.86 Feet. V. Yellowish brown 10YR 5/4 very clayey pebbly fine to coarse sand.										
		9			1		_	to 1 em		5.0707						8		
			-		-	sw	Vellowin	sh brown	10YR 5/4 pebbl	ly fine t	to coarse s	sand.				ee i		
		-10-			3300000	344		to 2X7		17 11110	10 000.00					1 8		
		-11-	\vdash										1.0	ONESTAR	No. 3 Send			
		40	\vdash											DINEGIAN	HO. D DEFE	S S		
		-12-					Yellowis	sh brown	10YR 5/4 stiff a	andy c	ilay.							
		-13-	-			CH												
		-14-														screen openings = 0.020 inch		
	\vdash								_									
		-15-																
		—16 -			Total D	epth 15.5									15.05 Feet. ence mark)	1		
			-		1DOIOW	1						Wel			ch flush box.			
		-17-														-		
		-1.8-		_														
		-19-														-		
				_	-											•		
		-20-			1													
		-21-	-		-								_			1		
-		22														1		
		-22-														1		
		-23-	-	-	+													
		-24				1												
		-25 <u>-</u>	-	-	-													
		-/-	_		-			_								1		

ENGEO, 2006 BORING LOG OF 01-B01

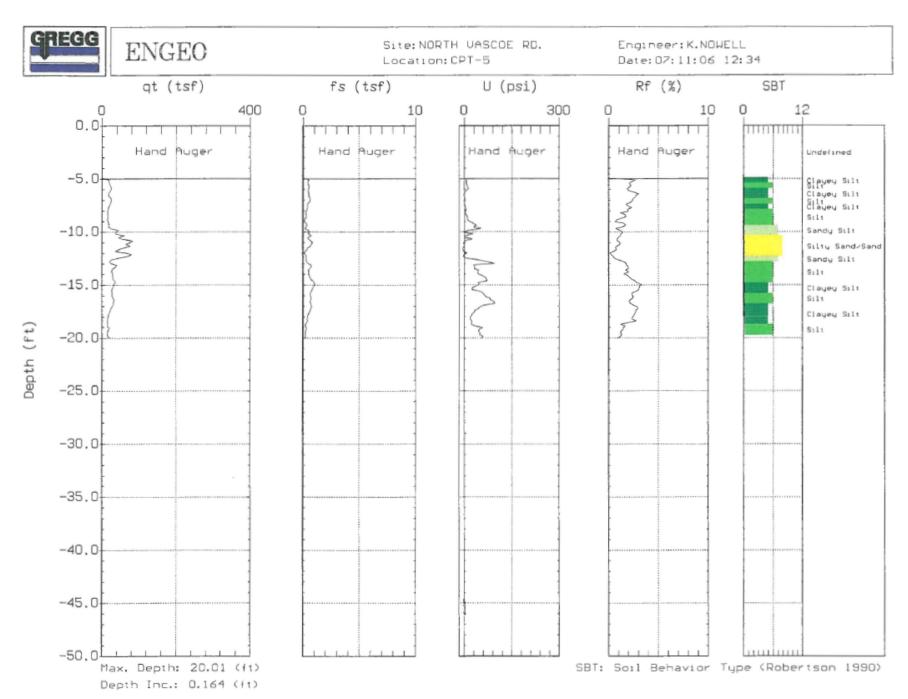


LOG OF BORING 01-B01

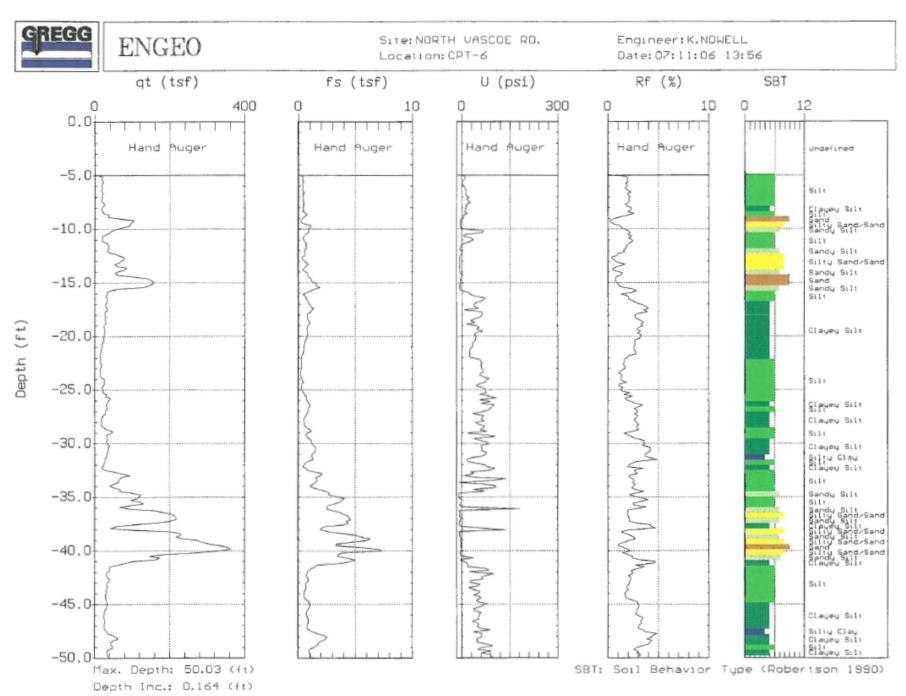
VASCO ROAD PROJECT 1000 NORTH VASCO ROAD LIVERMORE, CALIFORNIA 7380.1.001.01 DATE DRILLED: June 21, 2006 HOLE DEPTH (FT): 30 ft. HOLE DIAMETER: 6 in. SURF ELEV (FT-MSL): 530 ft. LOGGED / REVIEWED BY: K. Nowell / B.R.
DRILLING CONTRACTOR: Spectrum Drilling
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Auto

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count / Foot	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) "field approx
0-	_0 _		Pavement section 7 inches of concrete over 6 inches of aggregate base material. (FILL)						
-			SILTY CLAY, CL, grayish brown becoming dark yellowish brown, slightly moist, with sand, stiff to very stiff. PI=22, LL=36, %<200=84.2			19	16.5	113.7	3.3*
5-	- 1		SILTY CLAY, CL, grayish brown, slightly moist, to moist, with sand, minor moderate iron oxide staining, minor carbonates, very stiff.			28	16.5	114.3	3.0
-	-2		SILTY CLAY, CL, as above, with zone bearing abundant carbonates below 6.5 feet			14			
	-	11,6	CLAYEY SAND, SC, yellowish brown, very moist, loose to medium dense, sand is fine grained.						
10-	3 	N	DVOLAV OLAVOVA and also become majabashii			9	22.2		
-			SANDY CLAY, CL, grayish brown, moist, stiff.				40.0		0.01
	-4 -		Water encountered between 14.5 and 15 feet while drilling. CLAYEY SAND, SC, grayish brown, very moist, sand is fine to medium grained.		w		19.6		2.2*
15	-5		SILTY SAND, SM, yellowish brown, wet, medium dense, sand is fine to medium grained, sand is locally well graded. SILTY CLAY, CL, grayish brown to dark yellowish brown, slightly moist, medium			22			
-		V	stiff to stiff. SILTY SAND-POORLY GRADED SAND, SM-SP, yellowish brown, wet, medium dense, sand is fine to medium grained.			13			
20-	-6					14	23.2		
	-	A	CLAYEY SAND, SC, light grayish brown, wet, medium dense, sand is fine grained.						
-	7		As above, becoming CLAYEY SAND - SANDY CLAY, SC - CL						
25-	-8	A	SILTY SAND, SM, light grayish brown, wet. CLAYEY SAND- SANDY CLAY, SC - CL, grayish brown, wet, medium dense, sand is fine grained.			14	18.9		
-			SILTY GRAVEL, GM, yellowish brown, wet, gravel to 1-2/3-inch maximum dimension primarily sub rounded, medium dense, with sand.			42			
	_		POORLY GRADED SAND, SP, yellowish brown, wet, sand is primarilly fine grained, medium dense.			28	14.0		

GREGG IN SITU, INC., 2006 CONE PENETRATION TEST SOUNDINGS 1-CPT5 AND 1-CPT6



Appendix M – Page 8



Appendix M – Page 9