



# soil PACIFIC INC.

Geotechnical and Environmental Services

June 21, 2015  
Project No. H-5072-15

**Sassony Properties**  
4312 Woodman Ave. Ste. 250  
Sherman Oaks, CA 91423

Ph: 800-380-7765

Fx: 818-824-6304

Jennifer M. Duenas [mailto:sassony@sassonygroup.com]

**Subject: Limited Phase II Environmental Site Assessment Report  
Commercial Property Located at  
1057 W Manchester Ave, Los Angeles, California 90044**

Dear Sir;

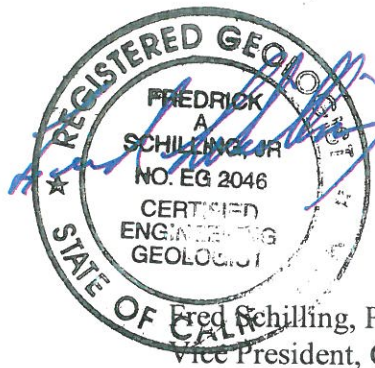
Pursuant to your request and authorization, we are pleased to submit this letter report concerning the Phase II site assessment, including the results of analytical test results. Based on our findings it is our opinion that there are traces of petroleum hydrocarbon substances and industrial solvent within the tested areas.

The opportunity to be service is appreciated. Should you have any question regarding this letter please contact this office for further clarification.

Very truly

Soil Pacifica Inc.

Yones Kabir  
President



Fred Schilling, Ph. D.  
Vice President, CEG

**Limited Phase II Environmental Site Assessment Report  
Commercial Property Located at  
1057 W Manchester Ave, Los Angeles, California 90044**

**EXECUTIVE SUMMARY**

The property is located at 1057 W Manchester Ave, Los Angeles, California. At the present time subject properties are occupied by an active retail Deli Shop, and a Fish Market at the north east corner and a Restaurant at the south east corner that are closed. This subject is a rectangular commercial property identified as 1057 W Manchester Ave, Los Angeles. The property boundary is surrounded by an iron fence and two gates. Immediate surrounding properties at the north are multi-unit residential and commercial property at the east.

Water, electric and sewer conduits are present and functional. No hazardous waste storage facility below ground and or unknown chemical storage was identified.

On June 8, 2015 Soil Pacifica, Inc., completed an investigation with subsurface boring and soil gas sampling. During this investigation 5 random borings were drilled between 16 to a minimum of 5 feet below the ground surface within the paved parking area. The boring location where selected randomly within areas to have a potential for underground storage tank cluster and/or pumping islands.

Two boring advanced to a minimum of 16 feet below ground with soil sampling for geotechnical engineering purposes. The boring shafts then converted to deep soil gas survey. In addition three more boring were advanced to -5 feet below ground surface and then converted to soil gas probes.

Considering analytical test results for soil gas samplings a potential for soil contamination were identified, in all soil gas probes. Visual soil discoloring and petroleum hydrocarbon odor was indicative of presence of petroleum hydrocarbon substances at the site.

In light of foregoing information it is our opinion that the site is impacted with petroleum hydrocarbon and industrial solvents such as PCE and TCE. The lateral and vertical extent of the contamination is not identified with proposed borings. Such task requires up to 60 feet depth borings evaluating the vertical extent. The lateral extend can be established by number of boring throughout the property depending the budget. Based on experience limited number of borings may not define a definitive answer concerning establishment of a zero line. Furthermore we have seen in similar project off-site plume on groundwater which requires additional tasks such as obtaining a permit and securing the public property prior to start such investigation.

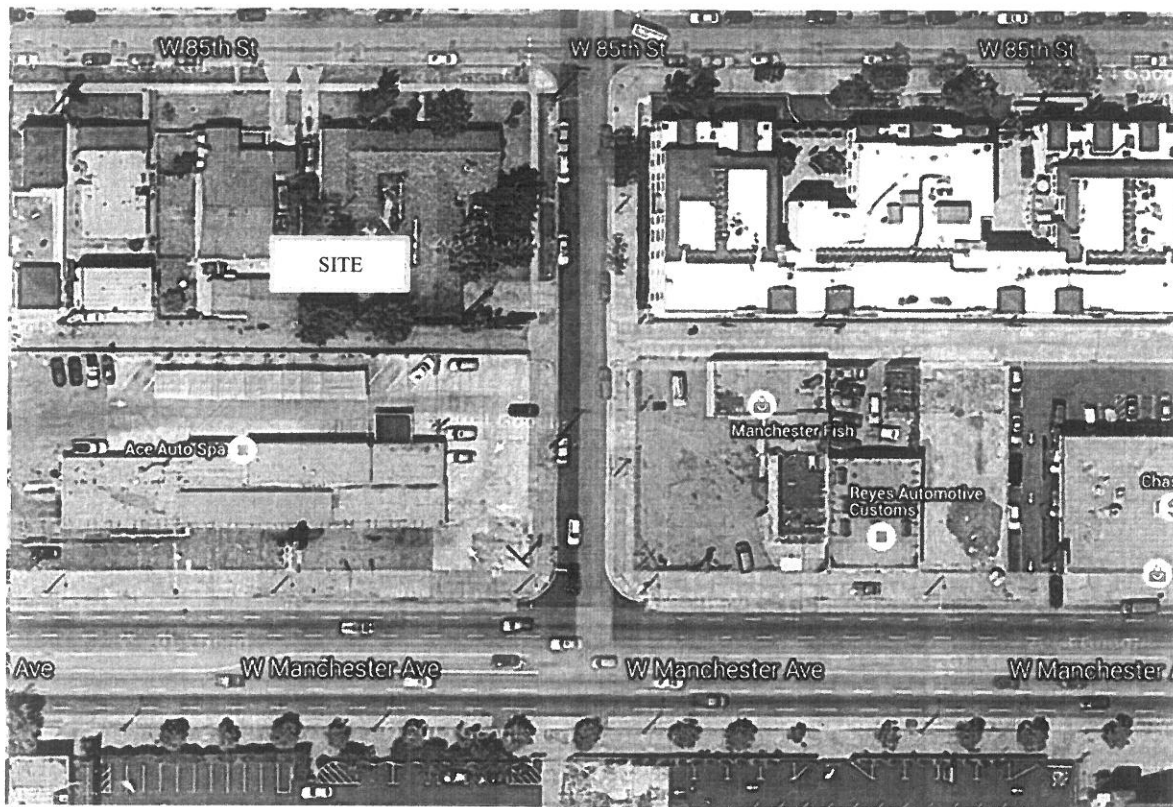
**Limited Phase II Environmental Site Assessment Report  
Commercial Property Located at  
1057 W Manchester Ave, Los Angeles, California 90044**

**1.0 INTRODUCTION**

In accordance with your authorization, Soil Pacifica, Inc. has completed a soil gas survey at the subject site. At the present time the property (1057 W Manchester Ave, Los Angeles), is occupied by a retail active Deli Store and two vacant buildings at the north east and south east corners that previously are used as a fish market and a restaurant services.

In order to determine the site environmental condition and status from environmental engineering standpoint, on June 8, 2015, we drilled five soil borings and then converted to gas probes between -16 to -5 feet to collect soil gas sampling form each point using pre-vacuumed canisters. The air samples were rushed to a certified analytical laboratory for testing using the method EPA 8260 B, for detection a full column of petroleum hydrocarbon substances.

Figure 1: Site aerial photo (by USGS).



## 2.0 SCOPE of WORK

Scope of Work completed during this Soil Gas Sampling Event consisted of the following operations:

- Interview with the owner about past use of the property and review of in house geologic, hydrogeologic, and environmental reports that we have performed within the subject project vicinity.
- Subsurface exploration, by means of a Geoprobe boring B-1, B-2, B-3, B-4 and B-5 and collection of soil gas sampling.
- Laboratory analysis of all soil gas samples at a State Certified Hazardous Waste Testing Laboratory (CHWTL) for hydrocarbon fuel contaminant content using method EPA 8060B.
- Interpretation of information collected during the subsurface exploration, and laboratory test results, and data analysis.
- Report preparation, drafting, and presentation of findings, conclusions and recommendations.



Figure 2: Site topographic map (by USGS).

#### **4.0 SITE DESCRIPTION**

The property is located at 1057 W Manchester Ave, Los Angeles. The subject site is comprised of a rectangular parcel occupied by three retail store buildings as outlined here above.

Subject site is surrounded by relatively new commercial building at the east and a multi-residential apartment building at the north side. Site access is through two Iron Gates from Raymond Avenue and Manchester Avenue.

Site sheet fellow is toward South, Southeast. The approximate elevation at the property is 140 above MSL. The project site is connected to the City sewer, and electric lines. No visual drum/s hazardous waste storage, underground or above ground storage were noticed. The property is paved and gated.

## **5.0 SUMMARY OF FINDINGS**

### **5.1 General Field Procedures**

On June 8, 2015, Soil Pacific, Inc. completed five Geoprobe borings (B-1, B-2, B-3, B-4 and B-5), and collected appropriate soil gas samples at each point form a soil horizon of -16 feet on B-1 and B-2 (V-1 and V-2) and three borings to a minimum of 5 feet borings B-3, B-4 and B-5( V-3, V-4 and V-5). All soil vapor samples were analyzed at CalTech Environmental Laboratories, Paramount, California. (see Appendix B).

### **5.2 Laboratory Findings**

Soil Gas samples were collected utilizing EPA Soil Gas advisory sampling protocol. An EPA type chain of custody form was used to document sample identification, time of collection, and sampling personnel. All samples were transported to CalTech Environmental Laboratories of California, Paramount, California; a State Department of Health Services (DOHS) Certified Hazardous Waste Testing Laboratory (CHWTL). Soil type was logged the time of drilling. The results of the initial sample analysis for all soil gas samples are reported below.

Soil gas samples were collected from each geoprobe soil gas probe. All soil gas samples were analyzed for hydrocarbon fuel contaminants (EPA 8260 B) including methyl-tri-butyl-ether (MTBE) and industrial solvents (PCE/TEC). Soil vapor sampling analysis indicated a trace of peritoneum hydrocarbon substances and industrial solvent such PCE and TCE on all sampled location.

The reported test results are indicative of trace of petroleum hydrocarbon and industrial soil contamination within the zone that are tested. However, the concentration of the detected substances may change with depth and the location. Therefore, the performed task is considered as detecting and verification of absence or confirming of those substances that detected during the testing. In order to have an idea about vertical and lateral extent of contamination a full spectrum of Phase II and/or site characterization is necessary with an adequate budgetary and scope of work.

Based on our experience with the area, groundwater is expected at -45 to -50 feet below ground. Groundwater contamination is not verified. However, a major groundwater contamination exists within Manchester Avenue and the vicinity. Most of detected groundwater contaminations are expanded plumes mainly off-site migrated of other resources. In most cases few plumes commingling with each other makes difficult to determine the responsible party.

## 6.0 CONCLUSIONS and RECOMMENDATIONS

### 6.1 Conclusions

Soil gas analysis completed by Cal Tech Environmental Laboratories for Soil Pacific, Inc. did detect hydrocarbon fuel contaminants in the soil gas samples. All of the sampling points were drilled on or within a close distance to the old underground storage tank cluster and pumping island. The interview with the current owner indicated that the tanks are removed in 1980's. However, the previous owner did not admit having knowledge about unauthorized release of hydrocarbon and or industrial solvents. The boring locations were selected randomly within the areas having more potential for petroleum hydrocarbon contamination.

### 6.2 Recommendations -

Based on review of the soil gas sampling analytical test results, it is our opinion that the site has a potential for major contamination and /or groundwater contamination. If TCE and PCE contamination concentration changes then that will make the remediation process more complicated since TCE and PCE treatment is not the same as petroleum hydrocarbon. This phenomenon will increase the cost of the remediation if these elements detected in soil and groundwater with a higher concentration above the remediation goal limit. Otherwise, if the level of concentration becomes in low ranges a health risk assessment will be sufficient to obtain a closure letter to use the property for commercial purposes. This kind of efforts will limit the use of the parcel forever and will prohibit constructing a residential unit on it. Therefore, upon completion of delineation of vertical and lateral extent of discovered substances, if the concentration of known contaminants at the site still remains below the action level, then the possibility of providing of a health risk assessment might be concerned.

Table-1: Vapor Samples Analytical Laboratory Test Results

Well ID	DATE	Benzen e (µg/L)	Toluen e (µg/L)	Ethylbenzen e (µg/L)	m.p-Xylene s (µg/L)	o-Xylen e (µg/L)	MTB E (µg/L )	TBA (µg/L )	TAM (µg/L )	TCE (µg/L )	PCE (µg/L )
V-1	6/18/2015	6.5*	2.5	60	26	3.7	ND	ND	ND	2.1*	7.5*
V-2	6/18/2015	ND	ND	13	3.3	ND	ND	ND	ND	ND	2.8*
V-3	6/18/2015	ND	1.3	3.1	1.9	ND	ND	ND	ND	ND	2.6*
V-4	6/18/2015	ND	ND	3.3	1.7	ND	ND	ND	ND	ND	1.5*
V-5	6/18/2015	ND	ND	1.5	2	ND	ND	ND	ND	ND	1.7*

**Notes:**

ND: not detected

\* : Above CHHSLs Limit

By comparing the analytical testing results (Table-1) with applicable CHHSLs guide line (California Human Health Screening Levels) in Table-2, we discovered that certain detected substances are above the CHHSLs limit.

As we outline here above, the lateral and vertical extent of contamination are not defined yet. Therefore, it is our opinion that health risk assessment or remediation recommendation cannot be warranted at this time. Furthermore, in order to provide a health risk assessment and/or site remediation a full site characterization is required. Therefore, additional site exploration testing and/or other necessary investigation as outlined by Water Quality Control Board and/or DTST ordinance and protocol must be implemented at the site.



## **7.0 LIMITATIONS**

The work completed in this Phase II Site Investigation has been performed by Soil Pacific, Inc., and licensed or certified subcontractors to Soil Pacific, Inc. The work has been performed in accordance with the professional practices and standards currently accepted in the GeoEnvironmental / Environmental Engineering Consulting Industry at the time our work was completed. No other warranty is either expressed or implied.

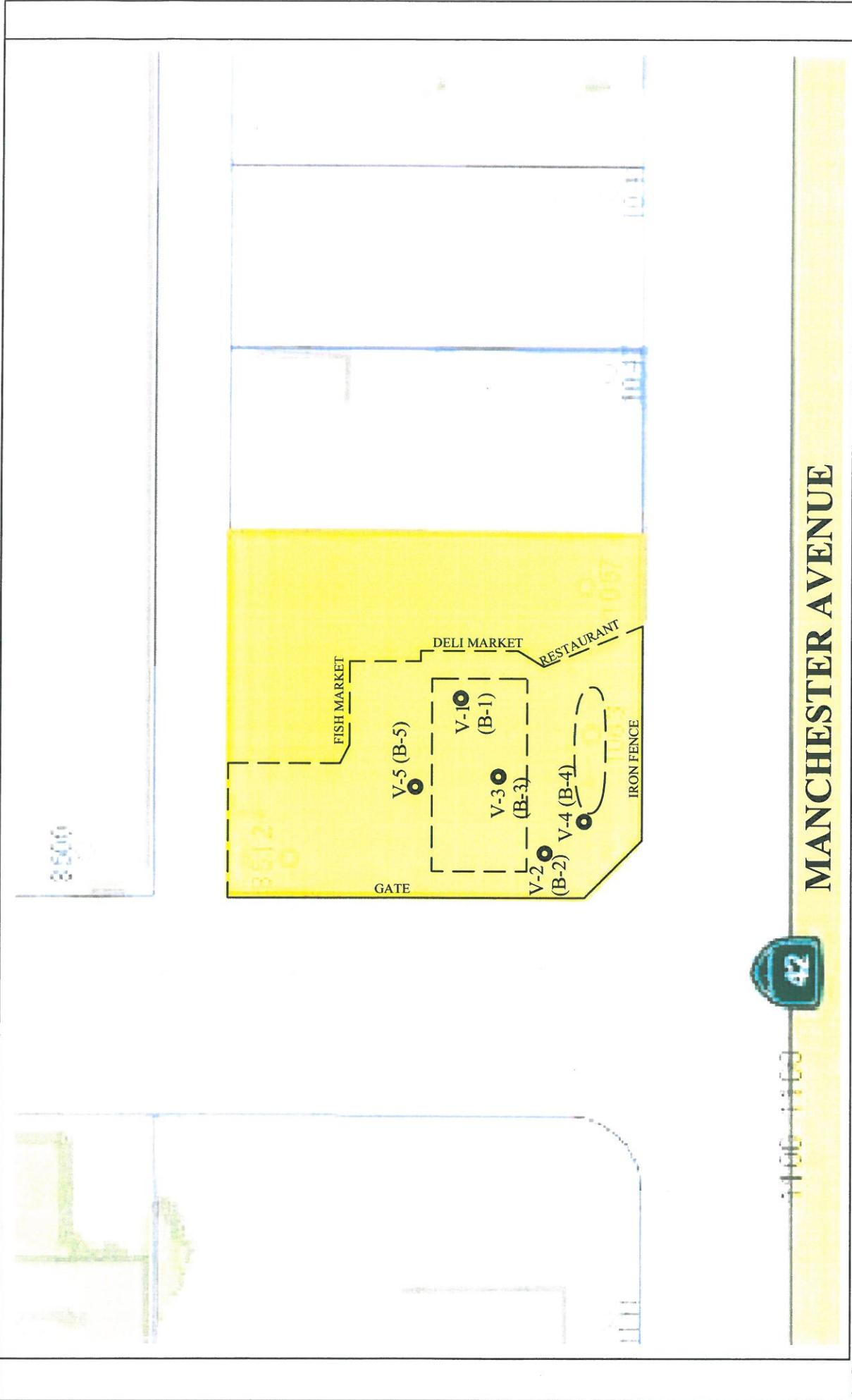
This report is issued with the understanding that it is the responsibility of the property owner, or his representative(s), to ensure that the information and recommendations contained herein are brought to the attention of the regulatory agency(s), as required by law.

It should be noted that the findings presented in this report are valid at this time, and that changes in the Geoenvironmental / environmental engineering conditions at, or around, the subject property can occur with the passage of time. In addition, changes in the currently acceptable Geoenvironmental / environmental engineering consulting standards and/or technology may occur as a result of new developments, or legislation. This may have an effect on the acceptability of the results of this study in the future, which are acceptable by the regulatory agencies today.

Should you have any questions concerning this report please do not hesitate to call us (714)879-1203.

**APPENDIX-A**

**FIGURES**



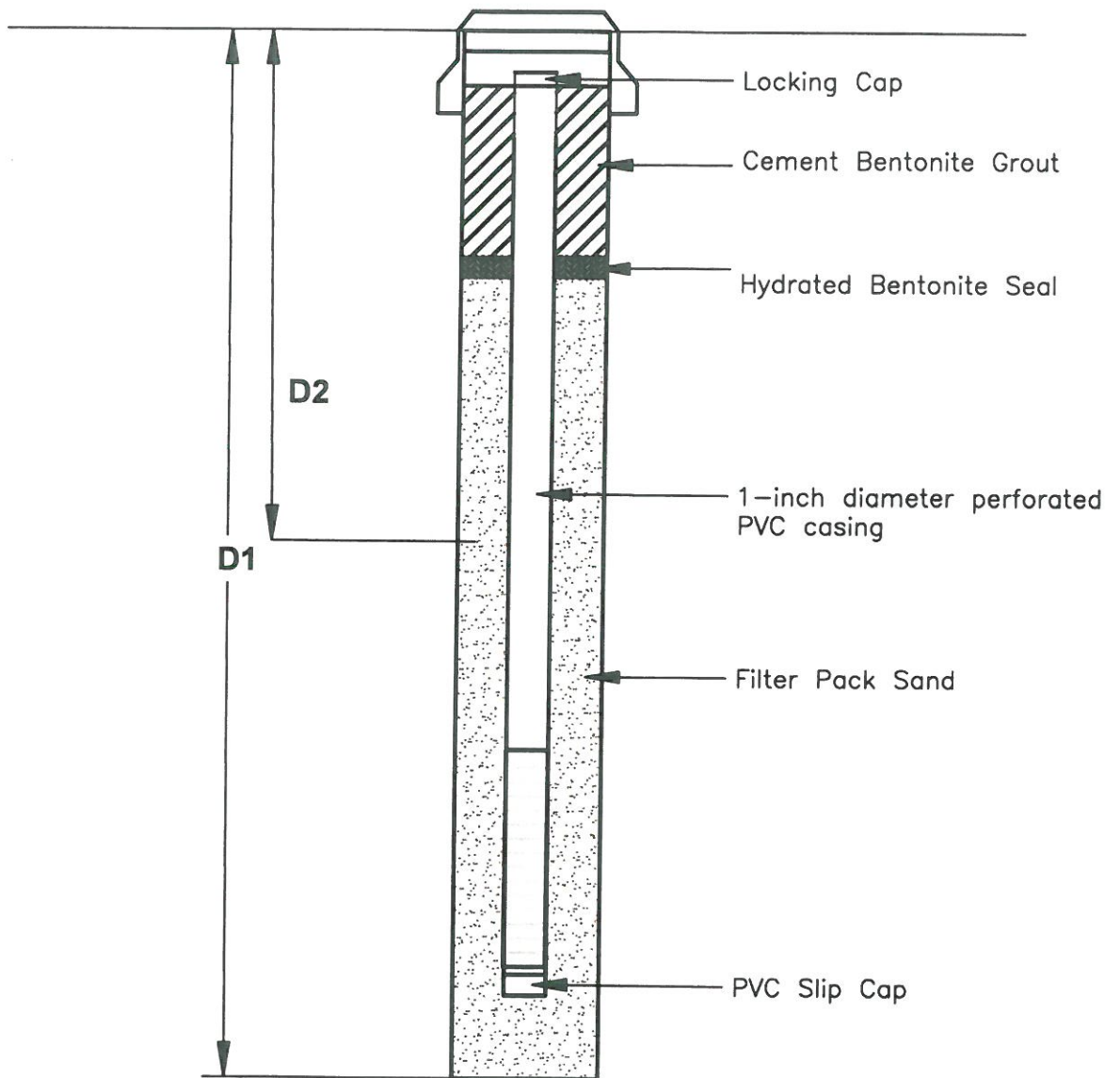
**LEGEND**

- ON B-1 AND B-2 SOIL BORING SHAFTS CONVERTED TO SOIL GAS SAMPLING PROB
- B-2 SOIL BORING TO -16 FEET BELOW THE EXISTING GRADE
- V-5 SOIL GAS PROB TO -5 FEET BELOW THE EXISTING GRADE
- BORING LOCATION

**soil PACIFIC Inc.**  
 Geotechnical & Environmental Services  
 675 N. Eckhoff, Suite # A  
 Orange, CA 92668

**PROJECT SITE**  
 1057 WEST MANCHESTER AVENUE  
 LOS ANGELES, CA 90044

**PLOT PLAN**  
 FIGURE - 3  
 DATE : 6/8/2015

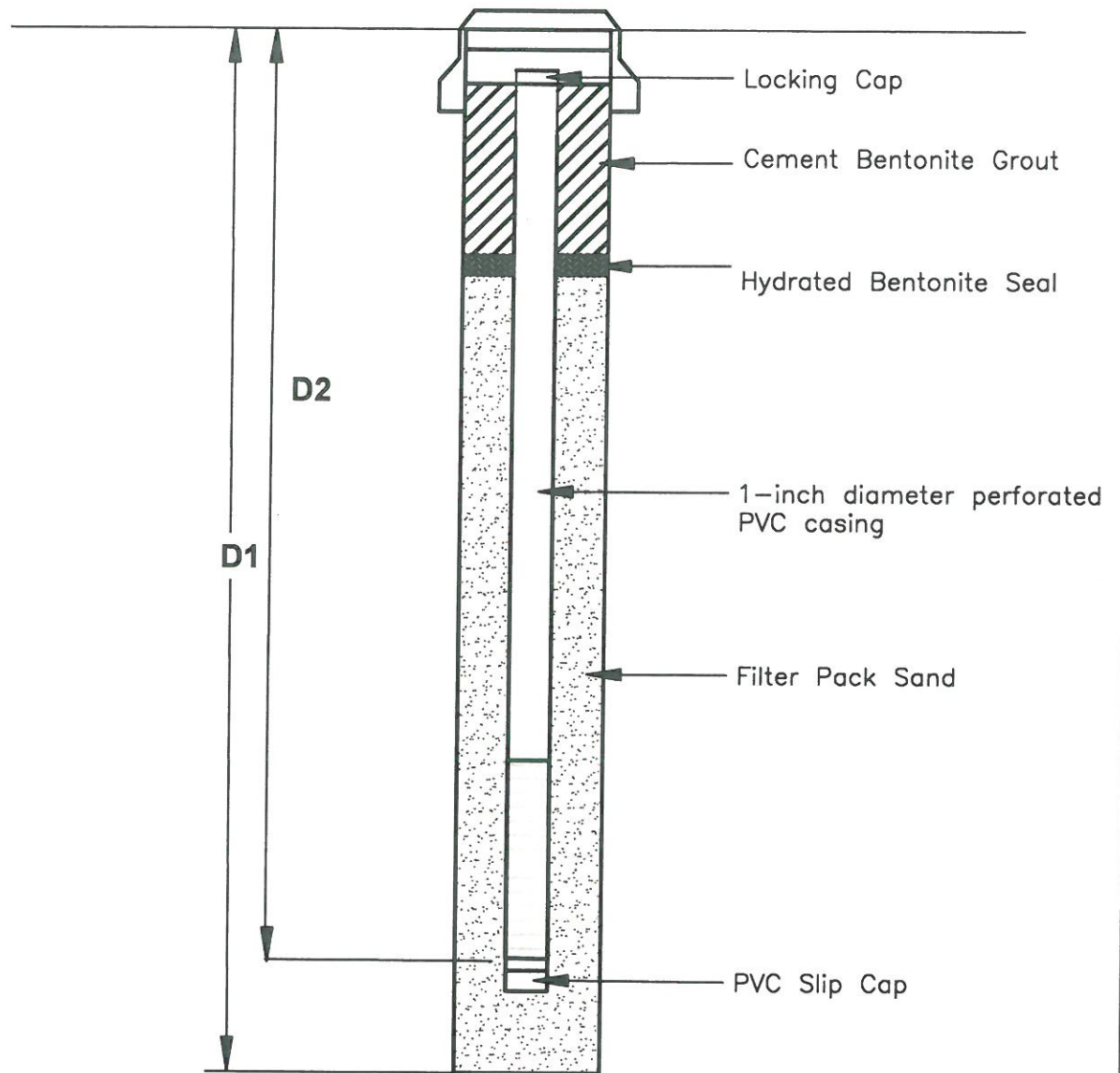


5-foot Deep Soil Probe Details	
Total Depth (D1)	5 feet
Well Screen Slot Size (D2)	1 foot



**PROJECT SITE**  
 1057 WEST MANCHESTER AVENUE  
 LOS ANGELES, CA 90044

**SOIL PROBE AT 16 FEET**  
 FIGURE - 4  
 DATE : 6/ 18/ 2015 | SHEET 1 OF 1



16-foot Deep Soil Probe Details	
Total Depth (D1)	16 feet
Well Screen Slot Size (D2)	3 feet



**PROJECT SITE**  
 1057 WEST MANCHESTER AVENUE  
 LOS ANGELES, CA 90044

**SOIL PROBE AT 16 FEET**  
 FIGURE - 5  
 DATE : 6/ 18/ 2015 | SHEET 1 OF 1

**APPENDIX-B**

**TABLES**

Table-1  
Vapor Samples Analytical Laboratory Test Results

Well ID	DATE	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m.p-Xylenes (µg/L)	o-Xylene (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAM (µg/L)	TCE (µg/L)	PCE (µg/L)
V-1	6/18/2015	6.5*	2.5	60	26	3.7	ND	ND	ND	2.1*	7.5*
V-2	6/18/2015	ND	ND	13	3.3	ND	ND	ND	ND	ND	2.8*
V-3	6/18/2015	ND	1.3	3.1	1.9	ND	ND	ND	ND	ND	2.6*
V-4	6/18/2015	ND	ND	3.3	1.7	ND	ND	ND	ND	ND	1.5*
V-5	6/18/2015	ND	ND	1.5	2	ND	ND	ND	ND	ND	1.7*

**Notes:**

ND: not detected

\* : Above CHHSLs Limit

Table 2. California Human Health Screening Levels for Indoor Air and Soil Gas

Chemical	<sup>1</sup> Indoor Air Human Health Screening Levels ( $\mu\text{g}/\text{m}^3$ )		<sup>2</sup> Shallow Soil Gas Human Health Screening Levels (Vapor Intrusion) ( $\mu\text{g}/\text{m}^3$ )	
	Residential Land Use	Commercial/Industrial Land Use Only	Residential Land Use	Commercial/Industrial Land Use Only
Benzene	8.40 E-02	1.41 E-01	3.62 E+01	1.22 E+02
Carbon Tetrachloride	5.79 E-02	9.73 E-02	2.51 E+01	8.46 E+01
1,2-Dichloroethane	1.16 E-01	1.95 E-01	4.96 E+01	1.67 E+02
<i>cis</i> -1,2-Dichloroethylene	3.65 E+01	5.11 E+01	1.59 E+04	4.44 E+04
<i>trans</i> -1,2-Dichloroethylene	7.30 E+01	1.02 E+02	3.19 E+04	8.87 E+04
Ethylbenzene	Postponed <sup>3</sup>	Postponed <sup>3</sup>	Postponed <sup>3</sup>	Postponed <sup>3</sup>
Mercury, elemental	9.40 E-02	1.31 E-01	4.45 E+01	1.25 E+02
Methyl tert-Butyl Ether	9.35 E+00	1.57 E+01	4.00 E+03	1.34 E+04
Naphthalene	7.20 E-02	1.20 E-01	3.19 E+01	1.06 E+02
Tetrachloroethylene	4.12 E-01	6.93 E-01	1.80 E+02	6.03 E+02
Tetraethyl Lead	3.65 E-04	5.11 E-04	2.06 E-01	5.78 E-01
Toluene	3.13 E+02	4.38 E+02	1.35 E+05	3.78 E+05
1,1,1-Trichloroethane	2.29 E+03	3.21 E+03	9.91 E+05	2.79 E+06
Trichloroethylene	1.22 E+00	2.04 E+00	5.28 E+02	1.77 E+03
Vinyl Chloride	3.11 E-02	5.24 E-02	1.33 E+01	4.48 E+01
<i>m</i> -Xylene	7.30 E+02	1.02 E+03	3.19 E+05	8.87 E+05
<i>o</i> -Xylene	7.30 E+02	1.02 E+03	3.15 E+05 <sup>4</sup>	8.79 E+05 <sup>4</sup>
<i>p</i> -Xylene	7.30 E+02	1.02 E+03	3.17 E+05	8.87 E+05

Reference: Appendix 1, OEHHA Target Indoor Air Concentrations and Soil-Gas Screening Numbers for Existing Buildings under Residential and Industrial Commercial land uses.

**Notes:**

1. "Residential Land Use" screening levels generally considered adequate for other sensitive uses (e.g., day-care centers, hospitals, etc.) Commercial industrial properties should be evaluated using both residential and commercial industrial CHHSLs. A deed restriction that prohibits use of the property for sensitive purposes may be required at sites that are evaluated and/or remediated under a commercial industrial land use scenario only.

Calculation of cumulative risk may be required at sites where multiple contaminants with similar health effects are present

Carcinogens: CHHSLs based on target cancer risk of 10<sup>-6</sup>. Cal/EPA cancer slope factors used when available

Noncarcinogens: CHHSLs based on target hazard quotient of 1.0

2. Soil Gas: Screening levels based on soil gas data collected ~ 1.5 meters (five feet) below a building foundation or the ground surface. Intended for evaluation of potential vapor intrusion into buildings and subsequent impacts to indoor-air. Soil gas data should be collected and evaluated at all sites with significant areas of VOC-impacted soil. Screening levels also apply to sites that overlie plumes of VOC-impacted groundwater.

3. Calculation of a screening number for the chemical has been postponed (pp) until the toxicity criterion currently being developed by OEHHA is published as a final document.

4. Representative Screening Numbers for mixed xylenes: The representative value for mixed xylenes is based on the calculated lowest one amongst the three isomers



**APPENDIX-C**

**LABORATORY REPORT & CHAIN-OF-CUSTODY DOCUMENTATION**

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## ANALYTICAL RESULTS\*

**CTEL Project No:** CT111-1506039  
**Client Name:** Soil Pacific Inc.  
 675 N. Eckhoff, Suite A  
 Orange, CA 92868  
**Attention:** Dr. Yones Kabir

**Phone:** (714) 879-1203  
**Fax:** (714) 879-4812

**Project ID:** Global ID:  
**Project Name:** 1057 Manchester, LA

**Date Sampled:** 06/08/15 @ 08:00 am  
**Date Received:** 06/08/15 @ 11:30 am  
**Date Analyzed:** 06/08/15

**Matrix:** Air

Laboratory ID:	1506-039-1	1506-039-2	1506-039-3	Method	Units:	Detection Limit
Client Sample ID:	V-1	V-2	V-3			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	ug/L	1
Chloromethane	ND	ND	ND	EPA 8260B	ug/L	1
Vinyl Chloride	ND	ND	ND	EPA 8260B	ug/L	0.5
Bromomethane	ND	ND	ND	EPA 8260B	ug/L	1
Chloroethane	ND	ND	ND	EPA 8260B	ug/L	1
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	ug/L	1
Iodomethane	ND	ND	ND	EPA 8260B	ug/L	1
Acetone	ND	ND	ND	EPA 8260B	ug/L	10
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	ug/L	10
Methylene Chloride	ND	ND	ND	EPA 8260B	ug/L	10
Freon 113	ND	ND	ND	EPA 8260B	ug/L	5
Carbon disulfide	ND	ND	ND	EPA 8260B	ug/L	1
trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	ug/L	1
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	ug/L	1
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	ug/L	1
Vinyl acetate	ND	ND	ND	EPA 8260B	ug/L	50
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	ug/L	1
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	ug/L	10
cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	ug/L	1
Bromochloromethane	ND	ND	ND	EPA 8260B	ug/L	1
Chloroform	ND	ND	ND	EPA 8260B	ug/L	1
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	ug/L	1
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	ug/L	1
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	ug/L	0.5
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	ug/L	1
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	ug/L	0.5
Benzene	6.5	ND	ND	EPA 8260B	ug/L	0.5
t-Amyl Methyl Ether (TAM)	ND	ND	ND	EPA 8260B	ug/L	1
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Trichloroethene	2.1	ND	ND	EPA 8260B	ug/L	1
Dibromomethane	ND	ND	ND	EPA 8260B	ug/L	1
Bromodichloromethane	ND	ND	ND	EPA 8260B	ug/L	1
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	ug/L	5
cis,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	ug/L	1
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	ug/L	10
trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	ug/L	1
Toluene	2.5	ND	1.3	EPA 8260B	ug/L	0.5
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	ug/L	1

(Continued)

TOTALLY DEDICATED TO CUSTOMER SATISFACTION

CTEL Project No: CT111-1506039

Project ID: Global ID:  
Project Name: 1057 Manchester, LA

Laboratory ID:	1506-039-1	1506-039-2	1506-039-3	Method	Units	Detection Limit
Client Sample ID:	V-1	V-2	V-3			
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	ug/L	0.5
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Dibromochloromethane	ND	ND	ND	EPA 8260B	ug/L	1
2-Hexanone	ND	ND	ND	EPA 8260B	ug/L	10
Tetrachloroethene	7.5	2.8	2.6	EPA 8260B	ug/L	1
Chlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	ug/L	1
Ethylbenzene	60	13	3.1	EPA 8260B	ug/L	0.5
m,p-Xylene	26	3.3	1.9	EPA 8260B	ug/L	0.6
Bromoform	ND	ND	ND	EPA 8260B	ug/L	1
Styrene	ND	ND	ND	EPA 8260B	ug/L	1
o-Xylene	3.7	ND	ND	EPA 8260B	ug/L	0.6
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Isopropylbenzene	5.0	ND	ND	EPA 8260B	ug/L	1
Bromobenzene	ND	ND	ND	EPA 8260B	ug/L	1
2-Chlorotoluene	ND	ND	ND	EPA 8260B	ug/L	1
n-Propylbenzene	11	ND	ND	EPA 8260B	ug/L	1
4-Chlorotoluene	ND	ND	ND	EPA 8260B	ug/L	1
1,3,5-Trimethylbenzene	2.0	ND	ND	EPA 8260B	ug/L	1
tert-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trimethylbenzene	12	ND	ND	EPA 8260B	ug/L	1
sec-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	ug/L	1
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
n-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
Naphthalene	ND	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	ug/L	1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	86	86	81	70-130
1,2 Dichloromethaned4	77	75	79	70-130
Toluene-d8	97	81	86	70-130
Bromofluorobenzene	102	96	95	70-130

**CTEL Project No:** CT111-1506039  
**Client Name:** Soil Pacific Inc.  
 675 N. Eckhoff, Suite A  
 Orange, CA 92868  
**Attention:** Dr. Yones Kabir

**Phone:** (714) 879-1203  
**Fax:** (714) 879-4812

**Project ID:** Global ID:  
**Project Name:** 1057 Manchester, LA

**Date Sampled:** 06/08/15 @ 08:00 am  
**Date Received:** 06/08/15 @ 11:30 am  
**Date Analyzed:** 06/08/15

**Matrix:** Air

Laboratory ID:	1506-039-4	1506-039-5	Method	Units:	Detection Limit
Client Sample ID:	V-4	V-5			
Dilution	1	1			
Dichlorodifluoromethane	ND	ND	EPA 8260B	ug/L	1
Chloromethane	ND	ND	EPA 8260B	ug/L	1
Vinyl Chloride	ND	ND	EPA 8260B	ug/L	0.5
Bromomethane	ND	ND	EPA 8260B	ug/L	1
Chloroethane	ND	ND	EPA 8260B	ug/L	1
Trichlorofluoromethane	ND	ND	EPA 8260B	ug/L	1
Iodomethane	ND	ND	EPA 8260B	ug/L	1
Acetone	ND	ND	EPA 8260B	ug/L	10
1,1-Dichloroethene	ND	ND	EPA 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	ND	EPA 8260B	ug/L	10
Methylene Chloride	ND	ND	EPA 8260B	ug/L	10
Freon 113	ND	ND	EPA 8260B	ug/L	5
Carbon disulfide	ND	ND	EPA 8260B	ug/L	1
trans,1,2-Dichloroethene	ND	ND	EPA 8260B	ug/L	1
Methyl-tert-butyl-ether(MtBE)	ND	ND	EPA 8260B	ug/L	1
1,1-Dichloroethane	ND	ND	EPA 8260B	ug/L	1
Vinyl acetate	ND	ND	EPA 8260B	ug/L	50
Diisopropyl Ether (DIPE)	ND	ND	EPA 8260B	ug/L	1
Methyl Ethyl Ketone	ND	ND	EPA 8260B	ug/L	10
cis,1,2-Dichloroethene	ND	ND	EPA 8260B	ug/L	1
Bromochloromethane	ND	ND	EPA 8260B	ug/L	1
Chloroform	ND	ND	EPA 8260B	ug/L	1
2,2-Dichloropropane	ND	ND	EPA 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	ND	EPA 8260B	ug/L	1
1,1,1-Trichloroethane	ND	ND	EPA 8260B	ug/L	1
1,2-Dichloroethane	ND	ND	EPA 8260B	ug/L	0.5
1,1-Dichloropropene	ND	ND	EPA 8260B	ug/L	1
Carbon Tetrachloride	ND	ND	EPA 8260B	ug/L	0.5
Benzene	ND	ND	EPA 8260B	ug/L	0.5
t-Amyl Methyl Ether (TAM)	ND	ND	EPA 8260B	ug/L	1
1,2-Dichloropropane	ND	ND	EPA 8260B	ug/L	1
Trichloroethene	ND	ND	EPA 8260B	ug/L	1
Dibromomethane	ND	ND	EPA 8260B	ug/L	1
Bromodichloromethane	ND	ND	EPA 8260B	ug/L	1
2-Chloroethylvinylether	ND	ND	EPA 8260B	ug/L	5
cis,1,3-Dichloropropene	ND	ND	EPA 8260B	ug/L	1
4-Methyl-2-pentanone(MI)	ND	ND	EPA 8260B	ug/L	10
trans,1,3-Dichloropropene	ND	ND	EPA 8260B	ug/L	1
Toluene	ND	ND	EPA 8260B	ug/L	0.5
1,1,2-Trichloroethane	ND	ND	EPA 8260B	ug/L	1

(Continued)


CTEL Project No: CT111-1506039

Project ID: Global ID:  
 Project Name: 1057 Manchester, LA

Laboratory ID:	1506-039-4	1506-039-5	Method	Units	Detection Limit
Client Sample ID:	V-4	V-5			
1,2-Dibromoethane(EDB)	ND	ND	EPA 8260B	ug/L	0.5
1,3-Dichloropropane	ND	ND	EPA 8260B	ug/L	1
Dibromochloromethane	ND	ND	EPA 8260B	ug/L	1
2-Hexanone	ND	ND	EPA 8260B	ug/L	10
Tetrachloroethene	1.5	1.7	EPA 8260B	ug/L	1
Chlorobenzene	ND	ND	EPA 8260B	ug/L	1
1,1,1,2-Tetrachloroethane	ND	ND	EPA 8260B	ug/L	1
Ethylbenzene	3.3	1.5	EPA 8260B	ug/L	0.5
m,p-Xylene	1.7	2.0	EPA 8260B	ug/L	0.6
Bromoform	ND	ND	EPA 8260B	ug/L	1
Styrene	ND	ND	EPA 8260B	ug/L	1
o-Xylene	ND	ND	EPA 8260B	ug/L	0.6
1,1,2,2-Tetrachloroethane	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichloropropane	ND	ND	EPA 8260B	ug/L	1
Isopropylbenzene	ND	ND	EPA 8260B	ug/L	1
Bromobenzene	ND	ND	EPA 8260B	ug/L	1
2-Chlorotoluene	ND	ND	EPA 8260B	ug/L	1
n-Propylbenzene	ND	ND	EPA 8260B	ug/L	1
4-Chlorotoluene	ND	ND	EPA 8260B	ug/L	1
1,3,5-Trimethylbenzene	ND	ND	EPA 8260B	ug/L	1
tert-Butylbenzene	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trimethylbenzene	ND	ND	EPA 8260B	ug/L	1
sec-Butylbenzene	ND	ND	EPA 8260B	ug/L	1
1,3-Dichlorobenzene	ND	ND	EPA 8260B	ug/L	1
1,4-Dichlorobenzene	ND	ND	EPA 8260B	ug/L	1
p-Isopropyltoluene	ND	ND	EPA 8260B	ug/L	1
1,2-Dichlorobenzene	ND	ND	EPA 8260B	ug/L	1
n-Butylbenzene	ND	ND	EPA 8260B	ug/L	1
1,2 Dibromo-3-Chloropropane	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trichlorobenzene	ND	ND	EPA 8260B	ug/L	1
Naphthalene	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichlorobenzene	ND	ND	EPA 8260B	ug/L	1
Hexachlorobutadiene	ND	ND	EPA 8260B	ug/L	1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY		Control Limit
Dibromofluoromethane	83	83	70-130
1,2 Dichloromethaned4	73	76	70-130
Toluene-d8	88	95	70-130
Bromofluorobenzene	100	101	70-130

  
 Roobik Yaghoubi  
 Laboratory Director

\*The results are base upon the sample received. Soil samples are not homogeneous

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

# Chain of Custody Record

Client: Sail Pavilion, Inc.  
 Contact: John Rubin  
 Address: 675 N. Eckhoff A  
 Project: 1057 Manchester, C.A.  
 Sampled By: [Signature]  
 Name/Signature

Phone: \_\_\_\_\_  
 Fax: 714 879 1203  
 Turn Around Time: \_\_\_\_\_  
 Rush: \_\_\_\_\_  
 Normal:

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	Comments
6-039-1	V-1	6-8-15	Tellex	1	-	Air	Smell/Order
2	V-2	↓	↓	1	-	↓	"
3	V-3	↓	↓	1	-	↓	"
4	V-4	↓	↓	1	-	↓	"
5	V-5	↓	↓	1	-	↓	"
							Manchester
							Bottle

Relinquished: [Signature] Date / Time: \_\_\_\_\_ Received: V-2  
 Dispatched: [Signature] Date / Time: \_\_\_\_\_ Carrier: V-3  
 I hereby authorize the performance of the above indicated tests.  
 Date / Time: 6-8-15/11:30 am Received by lab: Nick Phung  
 Custody seal(s) in tact upon receipt by lab? YES NO NONE

