CITADEL ENVIRONMENTAL SERVICES, INC.

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PRIVILEGED AND CONFIDENTIAL
DRAFT - FOR DISCUSSION PURPOSES ONLY
ATTORNEY-CLIENT WORK PRODUCT

June 14, 2012

Tanya Paskewitz
PELTON CENTER PLAZA
110 Pelton Center Way, Suite 3
San Leandro, California 94577

Re: CITADEL Project No. 0365.1001.0
Supplemental Phase II Subsurface Investigation Report
Pelton Plaza – Organic Cleaners
122 Pelton Center Way
San Leandro, California 94577

Dear Ms. Paskewitz:

Enclosed please find Citadel Environmental Services, Inc.'s Supplemental Phase II Subsurface Investigation Report for the above-referenced location.

The Supplemental Phase II Subsurface Investigation Report was conducted for Pelton Plaza in accordance with Citadel's Proposal 0365.1001.P, dated May 9, 2012, and a mutually agreed upon scope of work.

If, after your review, you have any questions or require additional information, please do not hesitate to telephone me at the Citadel Office in San Jose at (408) 418-4690.

Sincerely,
CITADEL ENVIRONMENTAL SERVICES, INC.

Mark Drollinger

Digitally signed by Mark Drollinger
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Date: 2012.06.14 11:12:36 -07'00'

Mark Drollinger, CSP, CHMM, REA I
Principal Engineer

Enclosure

Pelton Center Plaza
110 Pelton Center Way, Suite 3
San Leandro, California 94577

Supplemental Phase II Subsurface Investigation Report

June 14, 2012

Citadel Project Number 0365.1001.0

Pelton Plaza – Organic Cleaners
122 Pelton Center Way
San Leandro, California 94577

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APPENDICES

1.0 INTRODUCTION

In June 2012, Citadel Environmental Services, Inc. (Citadel) conducted a Supplemental Phase II Environmental Subsurface Investigation (Phase II) at the Pelton Plaza shopping center, located in San Leandro, California (Site). The approximate 1.93 acre site is comprised of a low-rise retail center, landscaping paved parking and a central road (Pelton Center Way) providing access through the Site. Organic Cleaners occupies a tenant space near the intersection of 4th Street and Pelton Center Way and is located at 122 Pelton Center Way (Figure 1).

Various laundry and drycleaning businesses have occupied this space since at least 1950. The current occupant, Organic Cleaners, uses a chemical free solution in place of hydrocarbon-based solvents, having made this operational change in 2009.

The Phase II was intended to define the extent and magnitude of known and suspect solvent contamination previously reported by others. This Phase II consisted of the advancement of four soil gas probes and four HydroPunch borings in the vicinity of the drycleaner facility. The Phase II was comprised of environmental sampling of soil, soil gas, and groundwater, and preparation of this report.

2.0 BACKGROUND

In May 2001, Western Environmental Engineers Co. (WEECO) conducted a limited subsurface investigation at the Site that included advancing three soil borings (B1-B3) to a total depth of approximately 7 feet below grade surface (bgs). Reportedly, two borings (B1 and B2) were advanced near the existing dry cleaning machine and one boring (B3) was advanced near the geometric middle of the occupied space. WEECO collected soil samples at 3 and 7 feet bgs in each boring and laboratory results indicated that samples from soil borings B1 and B2 contained PCE concentrations ranging from 0.115 to 0.327 milligrams per kilogram (mg/Kg). Soil samples obtained from boring B3 did not have detectable levels of PCE above the laboratories minimum detection limit (MDL). PCE was the only volatile organic compound reported by the laboratory in the soil samples analyzed. The measured concentrations were all less than the San Francisco Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs), which are conservative standards, designed to be protective of groundwater, the surrounding environment, and human health. The results of this investigation are included in WEECO's "*Preliminary Phase II Environmental Site Assessment Report*" dated May 21, 2001.

A Phase I Environmental Site Assessment (Phase I) was completed for the Site by JMK Environmental Solutions, Inc. (JMK), dated August 20, 2003. The prior WEECO Phase II findings were reported in the JMK report along with the current environmental conditions of the Site at that time. JMK agreed with WEECO's findings and recommendations, concluding for themselves that no additional environmental investigations were warranted at that time.

A Phase I was conducted for the Site by IVI Environmental, Inc., (IVI) dte March 22, 2012. Based on this Phase I, IVI reviewed the prior work and results of WEECO in 2001 and JMK in 2003 concluded that the prior Phase II did not go far enough in terms of their assessment of soil gas and groundwater. Further, IVI found that the long-time presence of the laundry and drycleaning occupancies was a recognized environmental condition that required additional investigation.

On April 20, 2012, IVI installed five temporary soil gas probes (SV1, SV3A, SV4A, SV5, and SV6), and one HydroPunch soil boring (GW1) in the near vicinity of the drycleaning equipment and

chemical storage area inside the Organic Cleaners facility. These borings were advanced to sample the underlying soil gas and groundwater, and evaluate the currant subsurface conditions. Laboratory results of soil gas samples collected inside the cleaner facility reported PCE, trichloroethene (TCE), and cis-1,2 dichloroethene (DCE); however, only PCE was reported to have exceeded the respective contaminant-specific commercial ESL, currently at 1.4 micrograms per liter (ug/L). Soil gas collected by IVI and analyzed by a mobile laboratory on-Site reported PCE concentrations from 44 to 77 ug/L. Results of groundwater sampling found PCE at 7.5 ug/L, exceeding the ESL of 5 ug/L. Based on their results of soil gas and groundwater sampling, IVI recommended an additional investigation of soil, soil gas and groundwater.

On June 4, 2012, Citadel initiated a Supplemental Phase II Site Investigation incorporating a scope of work to define the vertical and lateral extents of suspect subsurface contamination for the Site.

3.0 GEOLOGY/HYDROGEOLOGY

According to the "*East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*" prepared by SFRWQCB, the Site is located within the San Leandro Sub-Area in the East Bay Plain of the San Francisco Basin. Sediments in the Sub-Area consist primarily of alluvial fan deposits but also include a distinct low permeability unit; the Yerba Buena Mud. The Yerba Buena Mud deposit forms a major aquitard between shallow and deep aquifers in the region. The aquifers in the San Leandro Sub Area are typically fine grained and relatively poor producers of groundwater. In addition, shallow aquifers have been impacted by subsurface contamination limiting their practical use.

Based on the drilling logs, native shallow soils beneath the site consist primarily of silty clay, with occasional horizons containing minor sand or gravel mixed into the predominately clay matrix. This section is consistent from near surface to 36 feet bgs, the maximum depth of exploration. Groundwater was encountered at about 34-36 feet bgs during drilling of the HydroPunch borings. The intercepted portion of the saturated zone consists of the silty clay deposits typical of the soil column, possibly suggesting an insignificant water-bearing perched zone. Descriptions of the sediments encountered during drilling are presented in the drilling logs (Appendix A).

Citadel reviewed the CRWQCB's Geotracker database to locate facilities within the Site vicinity that could provide additional information with respect to local geology, approximate groundwater depth and gradient and local environmental concerns. Based on this review, Citadel's findings of the local subsurface geology and groundwater depth was confirmed from this on-Site investigation. In addition, Citadel anticipates that groundwater gradient for the Site will be to the southwest.

4.0 SITE INVESTIGATION

On June 4 and 5, 2012, Citadel advanced four soil gas probes identified as SV7 through SV10 at the Site to five- feet bgs. Soil gas probes SV7 and SV9 were installed inside the Organic Cleaners facility east of the dry cleaning machine. Soil gas probe SV8 was installed southwest of the dry cleaning machine, near the front entrance to the facility. In addition to the three indoor soil gas probes, a fourth soil gas probe (SV10) was installed outside the building to the west. During work inside the dryclenaing facility, Citadel observed that the reported locations of two previous probes by IVI may have been inaccurate as there were no surface expressions of these holes in

their expected locations. Though the temporary probes were removed by IVI after sampling, surface evidence for these probe locations would be obvious. IVI soil gas probes SV5 and SV6 appear to be located on the west side of the dry cleaning machine as indicated on Figure 2. The other IVI probe locations appear to be correct.

Citadel advanced four HydroPunch borings outside the Organic Cleaners facility to approximately 36 feet bgs for the purpose of testing groundwater downgradient at the Site. The four hydropunch borings were identified as HP1 through HP4. Borings HP1 and HP2 were advanced southeast and southwest of the occupied building in the parking area of Pelton Center Way, respectively. Borings HP3 and HP4 were advanced to the south and west of the dry cleaner shop, respectively. The locations of the soil gas probes and soil borings are shown on Figure 2. Photos taken during field work are presented in Appendix B.

The soil borings were installed using a GeoProbe-type hydraulic direct-push drilling rig. This drilling method is desirable because it eliminates soil cuttings and allows for representative soil sampling. Direct push technology uses one-inch diameter rods that are driven to specific depths for soil sampling. At the required depth, the rods are retrieved from the hole and a soil sampling tool is installed and driven into the undisturbed soil. Soil samples were collected at select intervals for geologic logging and laboratory analysis. Each sample was screened in the field for volatile emissions with a photo-ionization detector (PID) field calibrated to a hexane standard. Permits obtained from the Alameda County Public Works Agency for boring installation are included in Appendix C.

During drilling, soil samples were collected at six-foot intervals for geologic logging and laboratory analysis. Each sample was screened in the field for volatile emissions with the PID. The soil samples were preserved in acetate sleeves sealed with Teflon tape and plastic caps and immediately stored on ice pending shipment to the laboratory.

After collecting the soil samples, the soil gas probes were installed to approximately 5 feet bgs in soil gas borings SV7 through SV9. The probes consisted of air diffusers connected to polyethylene tubing that extended above the surface. The space around the diffusers was filled with sand and sealed to the near surface with bentonite. The soil gas sampling probes were allowed to equilibrate for at least one hour before applying vacuum and collecting samples. After static conditions were established, soil gas was purged through the tubing, and the samples were collected from the closed system using a low-flow vacuum pump (at 0.2 liters/minute) and individual Tedlar sampling bags. The samples were collected after purging at least 3 pore volumes (volume of tubing length and sand pack). All equipment was decontaminated using an alconox solution between holes. After soil gas sampling, the probes were removed from the ground and the holes sealed with bentonite and resurfaced with concrete.

After soil sampling in the HydroPunch borings, in-situ groundwater samples were collected by sending a ½-inch diameter PVC threaded pipe down the open bore hole. The temporary screen was connected to Teflon tubing fitted with a check valve, and water was driven into the tube by manually lowering and raising the tubing. At each location, the groundwater samples were collected with the well screen exposed at about 34-36 feet bgs. After completion of groundwater sampling, the tubing was removed and the holes were sealed with bentonite and resurfaced with asphalt or concrete to match existing grade.

The soil, soil gas, and groundwater samples were delivered using proper Chain-of-Custody protocols to Cal Tech Environmental Laboratories, Inc., (Cal Tech) in Paramount, California. Cal

Tech is an ELAP approved laboratory No. 2424. The samples were analyzed using EPA Method 8260B.

Soil Sampling Results

Results of soil analysis indicated that none of the soil samples from borings HP1, HP2, or HP3 had detectable levels of volatile organic compounds (VOC's). However, soil samples from HP4 was reported with PCE concentrations above the MDL in each of the soil gas samples analyzed, ranging from 0.008 to 0.012 mg/Kg. In addition, PCE was reported in the soil samples from the interior soil gas probes (collected at approximately 5 feet bgs) ranging from 0.005 to 0.030 mg/Kg. The highest concentration of PCE reported by the laboratory was detected in soil from SV9, located immediately adjacent to the dry cleaning machine. Samples from SV10, located west of the dry cleaners towards HP4, did not have detectable PCE at 5 feet bgs. No VOC other than PCE was detected in any of the soil samples.

These results were compared to the SFRWQCB ESLs for commercial applications, which include values for settings above drinking water or non-drinking water, and for depths above or below 3 meters. In any of these scenarios the ESL for PCE in soil is 0.7 mg/Kg. None of the reported PCE concentrations exceeded this value, and in fact were at least one order of magnitude lower that the established ESL. These results are summarized in Table 1. The laboratory data including chain of custody and method detection limits are presented in Appendix D.

In-Situ Groundwater Sampling Results

PCE was reported in three of four groundwater samples collected during this Phase II. Sample HP3 did not have detectable levels. Groundwater collected from HP1 and HP2, located nearest to the dry cleaners facility, were reported with PCE values of 1.5 and 1.1 ug/L, respectively. These values are below the established maximum contaminant level (MCL) (and SFRWQCB ESL) of 5 ug/L. PCE was reported in HP4, located to the west of the cleaner facility, at 14 ug/L. These results are presented in Table 2. The laboratory data including chain of custody and method detection limits are presented in Appendix D.

Soil Gas Sampling Results

Results of soil gas analysis reported detectable levels of PCE in soil gas at 5 feet bgs from SV7 and SV9 at 1.7 and 4.7 ug/L, respectively. Soil gas probes SV8 and SV10, did not have detectable PCE levels. No VOC other than PCE was detected in soil gas. These results were compared to the SFRWQCB ESLs for soil gas in commercial applications. Both detected values exceeded the conservative standard of 1.4 ug/L. These results are summarized in Table 3. The laboratory data including chain of custody and method detection limits are presented in Appendix D.

To quantify the potential risk beyond the preliminary conservative ESL screening, the results were used as input to a computer model to determine the site-specific potential risk to human health for workers inside the building from the measured soil gas concentrations in the subsurface. The standard for measuring this risk is the Johnson-Ettinger computer model developed by the EPA for simulating vapor intrusion into a structure. These data can provide insight into whether remediation is required or not.

5.0 VAPOR INTRUSION MODELING

The Johnson-Ettinger model is a one-dimensional analytical solution to diffusive and convective transport of volatile chemical vapor into indoor spaces made available by the EPA. The model provides a theoretical description of vapor intrusion from the subsurface into an indoor air space and relates vapor concentrations at a subsurface source to potential vapor concentrations in an enclosed air space. It was developed as a screening tool and has a number of inherent simplifying assumptions regarding contaminant distribution, subsurface characteristics, transport mechanisms, and building construction. The model assumes that isotropic homogeneous conditions adequately characterize the subsurface.

The model assumes an infinite contaminant source and that vapor flux through the subsurface occurs only by one-dimensional diffusion (upward) to the base of the building foundation. Diffusive flow through the subsurface is simulated using common vapor flux equations controlled by the assigned soil property variables. Convection carries the mass through simulated cracks and openings in the foundation into the structure. The convective sweep is caused by presumed air movement in the building from heating/cooling, stack, and wind effects. Both diffusive and convective transports are assumed to be uniform and steady state. The model does not account for attenuation factors such as biodegradation or sorption during transport to the base of the building.

The model treats the entire building as a single chamber with instantaneous and homogeneous vapor dispersion. It therefore neglects contaminant sinks and room to room variations in vapor concentrations due to unbalanced mechanical or natural ventilation. Once a representative average concentration is determined, all vapors directly below the areal extent of the structure are presumed to enter the structure, and since the mass is considered infinite, steady state transport prevails and the intrusion rate remains constant. Therefore, the soil gas concentrations, the building ventilation rate, and the soil gas flow rate into the building will determine the calculated indoor air concentrations.

Model Input

There are several versions of the Johnson-Ettinger model including ones that use concentrations of volatile contaminants in soil, groundwater and soil gas to predict exposure risk within an enclosed air space. When soil gas data is available, it can be directly input into the model, providing the most direct and reliable calculation. The pertinent model for this exercise is named SG-ADV, which allows input of parameters for the soil gas concentrations, the soil type, size of the building footprint, the height of the structure, and the building ventilation rate (or indoor air exchange rate).

To provide a conservative and appropriate characterization of the potential vapor intrusion risk, the maximum PCE concentrations were used with DTSC-recommended default values rather than existing building dimensions. The case was modeled in a commercial scenario, which is appropriate given the long history of commercial development in the area.

Soil Gas Concentrations

Two separate cases were considered in this analysis. The first case used data from our investigation using the maximum PCE concentration measured from SV9, which had 4.7 ug/L. This probe is located immediately adjacent to the dry cleaning machine and should be representative of near worst-case case conditions. In addition, the maximum value from the IVI

investigation was modeled. Though these probes are located less than 20 feet from SV9, they had markedly higher PCE concentrations to 77 ug/L.

Soil Permeability

The model also allows input of Site specific soil type in the vadose zone and calculates values of permeability; soil moisture content and other important parameters based on the selection. Based on information from drilling, the upper 5 feet of soil beneath the Site consists mostly of silty clay. The soil type chosen for the model input was silty clay (SIC), which closely fits the profile of the soil encountered during drilling.

Building Footprint and Height

The default value recommended by DTSC is a building occupying 100 square meters with a ceiling height of about 8 feet.

Model Results

The results of the model provide an assessment of the exposure risk to humans in the default structure, using accepted risk factors. Since the model is primarily a screening tool it provides very conservative results. Accordingly, the acceptable exposure risk values are conservative. For carcinogens the accepted exposure risk is 10^{-6}, for non-carcinogens the hazard risk quotient is 1. However, risk management decisions can be made on cases in the range of 10^{-4} to 10^{-6}, especially when default criteria and conservative input data are used.

Results indicated the calculated carcinogen risk for PCE in sample SV9 is 9.0E-07. The calculated carcinogen risk for PCE in sample SV4A (IVI maximum) is 1.5E-05. The IVI result modestly exceeds the 10^{-6} threshold, but is clearly in range for a positive risk management decision. The results are summarized in Table 4. The model input and results are presented in Appendix E.

6.0 FINDINGS AND CONCLUSIONS

The Site is a retail mall that included a dry cleaning business occupant for over 60 years in one location. The current business no longer uses PCE, but past operations included PCE use and storage. Initial investigations conducted by WEECO in 2001 suggested low PCE levels in soil at approximately 3 and 7 feet bgs immediately adjacent to the dry cleaning machine. These concentrations were compared to conservative ESLs and were lower than the guideline screening values. A subsurface investigation of the Site by IVI in April 2012 suggested that high levels of PCE were present in soil gas in the immediate vicinity of the on-Site dry cleaning machine, and that groundwater was marginally impacted.

The objective of this investigation was to determine the magnitude and extent of PCE contamination discovered by IVI. The scope of work included installation of soil gas probes around the perimeter of the IVI probes, including one located immediately adjacent to the dry cleaning machine (on the opposite side of the previous probes). In addition, four HydroPunch probes were advanced around the perimeter of the business to gauge potential groundwater contamination.

Results indicated none of the soil samples had significant levels of PCE in any of the areas of investigation. All measured concentrations were well below the SFRWQCB ESL guidelines. In addition, results of groundwater sampling indicated just one sample had PCE concentrations greater than the MCL (and drinking water standard ESL) with 14 ug/L PCE in HP4. Probe HP4 is located about 120 feet west of the dry cleaning shop and was also the only HydroPunch location with detectable PCE levels in soil (though all were well below the corresponding ESL guideline). This probe is located west of IVI's original probe GW1, which had 7.5 ug/L PCE in April 2012. Though these two dissolved values exceed the conservative MCL, they are not considered significant.

The characteristics of the water–bearing zone suggest it is unproductive (given the predominant clayey deposits) and non-potable (given the shallow depth and suspected high TDS values). If the water bearing zone were designated as a non-drinking water type, which appears probable, the ESL for dissolved PCE would be 120 ug/L and the dissolved levels would be inconsequential.

Results of current soil gas sampling indicate a limited extent of notable PCE concentrations. The probes included in this investigation were intended to define the extent of contamination, and as such, were installed some distance from the suspected source area. However, SV9 is located immediately adjacent to the suspected source and within 20 feet of the probes with the highest PCE concentrations in soil gas. Results indicate an order of magnitude drop in concentrations across this short distance, suggesting a very limited problem. These results suggest that the impacted soil gas area is very limited and the magnitude is not significant.

Citadel acknowledges that some uncertainties exist regarding the reported presence of minor PCE contaminations greater than 120 feet from the source area in HP4. Though intermediate points such as SV10 suggest this is not a significant concern and may be unrelated to current and past Site operations.

Finally, due to the very low levels of dissolved PCE in the groundwater, we believe the Site should be considered a candidate for closure with no further action.

7.0 LIMITATIONS

This Subsurface Investigation was performed in accordance with generally and currently accepted engineering practices and principles; however, the procedures and methodologies used in this investigation are not intended to meet any specific regulatory guidelines as this work was completed as a self-directed effort. This investigation was necessarily constrained by time to the number of sample locations and laboratory analyses completed. Although efforts were made to investigate the most probable areas that might have subsurface contamination, this assessment should not be construed as a comprehensive investigation of the entire property. Although the data in this report is indicative of subsurface conditions in areas investigated, no further conclusions regarding the absence or presence of subsurface contamination at the site should be construed or inferred other than those expressly stated in this report. The conclusions made are based on information obtained from field observations, independent laboratory analytical results, and from relevant Federal, State, regional, and local agencies.

8.0 SIGNATURES

Report Prepared by:

Dan Louks

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Registered Geologist 4883

Mark Drollinger

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Mark Drollinger, CSP, CHMM, REA I
Principal Engineer

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Table 1
Summary of Soil Sampling Results

TABLE 1
Summary of Soil Sampling Results (mg/Kg)

Sample ID	PCE	TCE	DCE
Sampled May 16, 2001			
B1-3	0.327	ND	ND
B1-7	0.221	ND	ND
B2-3	0.141	ND	ND
B2-7	0.115	ND	ND
B3-3	ND	ND	ND
B3-7	ND	ND	ND
Sampled June 4-5, 2012			
SV7-5	0.017	ND	ND
SV8-5	0.005	ND	ND
SV9-5	0.030	ND	ND
SV10-5	ND	ND	ND
HP1-12	ND	ND	ND
HP1-24	ND	ND	ND
HP1-30	ND	ND	ND
HP1-36	ND	ND	ND
HP2-12	ND	ND	ND
HP2-24	ND	ND	ND
HP2-30	ND	ND	ND
HP2-36	ND	ND	ND
HP3-12	ND	ND	ND
HP3-24	ND	ND	ND
HP3-30	ND	ND	ND
HP3-36	ND	ND	ND
HP4-12	0.008	ND	ND
HP4-18	0.012	ND	ND
HP4-24	0.008	ND	ND
HP4-31	0.011	ND	ND
SFRWQCB ESL	0.70	0.46	0.19

Notes: ND - Not Detected. San Francisco Regional Water Quality Control Board Environmental Screening Levels for soil in a commercial setting with underlying groundwater of drinking water quality. Please refer to lab report for complete results. No soil samples analyzed by IVI (April 1012).

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Table 2
Summary of In-Situ Groundwater Sampling Results

TABLE 2
Summary of In-Situ Groundwater Sampling Results (µg/L)

Sample ID	PCE	TCE	DCE
Sampled April 20, 2012			
GW1	7.5	ND	ND
Sampled June 4-5, 2012			
HP1	1.5	ND	ND
HP2	1.1	ND	ND
HP3	ND	ND	ND
HP4	14	ND	ND
SFRWQCB ESL – Drinking Water	5	5	6
SFRWQCB ESL – Non-Drinking Water	120	360	590

Notes: ND - Not Detected. San Francisco Regional Water Quality Control Board Environmental Screening Levels for groundwater in a drinking water and non-drinking water setting. Please refer to lab report for complete results.

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Table 3 & 4
Summary of Soil Gas Sampling Results
Summary of Johnson-Ettinger Modeling Results

TABLE 3
Summary of Soil Gas Sampling Results (µg/L)

Sample ID	PCE	TCE	DCE
Sampled April 20, 2012			
SV1	51	1.1	ND
SV3A	74	3.1	0.22
SV4A	77	3.5	0.18
SV5	44	0.74	ND
SV6	49	1.0	ND
Sampled June 4-5, 2012			
SV7-5	1.7	ND	ND
SV8-5	ND	ND	ND
SV9-5	4.7	ND	ND
SV10-5	ND	ND	ND
SFRWQCB ESL*	1.4	4.1	20

Notes: ND - Not Detected. San Francisco Regional Water Quality Control Board Environmental Screening Levels for soil gas in a commercial setting. Please refer to lab report for complete results.

TABLE 4
Summary of Johnson-Ettinger Modeling Results

Sample ID	Max. PCE Conc (ug/L)	Carcinogen Risk	Hazard Quotient
SV9-5	4.7	9.0E-07	1.2E-02
SV4A	77	1.5E-05	2.0E-01
	Acceptable Risk	1.0E-06	1

Notes: Risk Management Range is 1E-06 to 1E-04. Details presented in modeling exercise printouts (Appendix E).

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Figure 1
Site Plan – Pelton Plaza

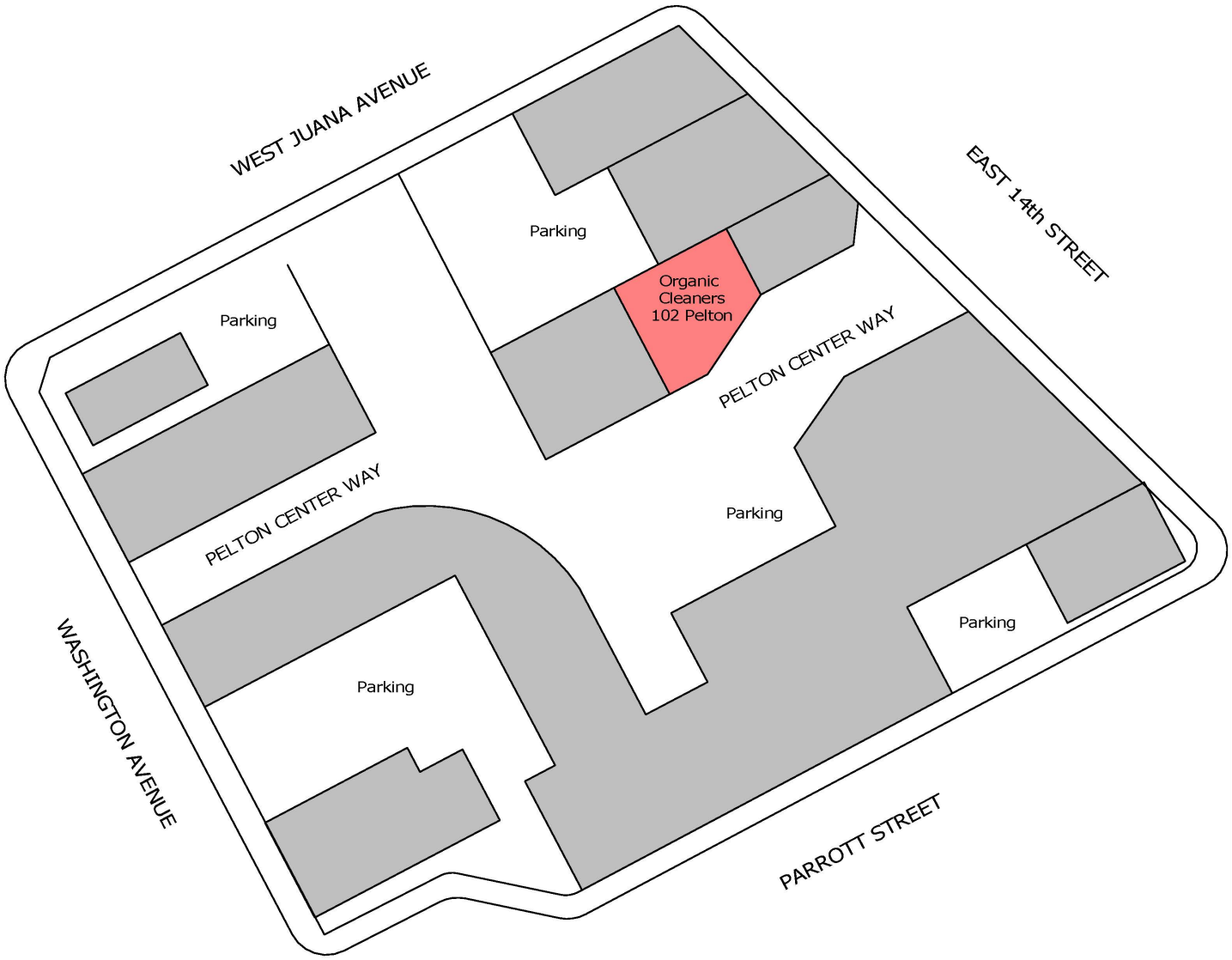

FIGURE 1
GENERAL SITE PLAN
PELTON PLAZA
102 Pelton Center Way
San Leandro, California

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N

APPROXIMATE SCALE IN FEET
0 80 160

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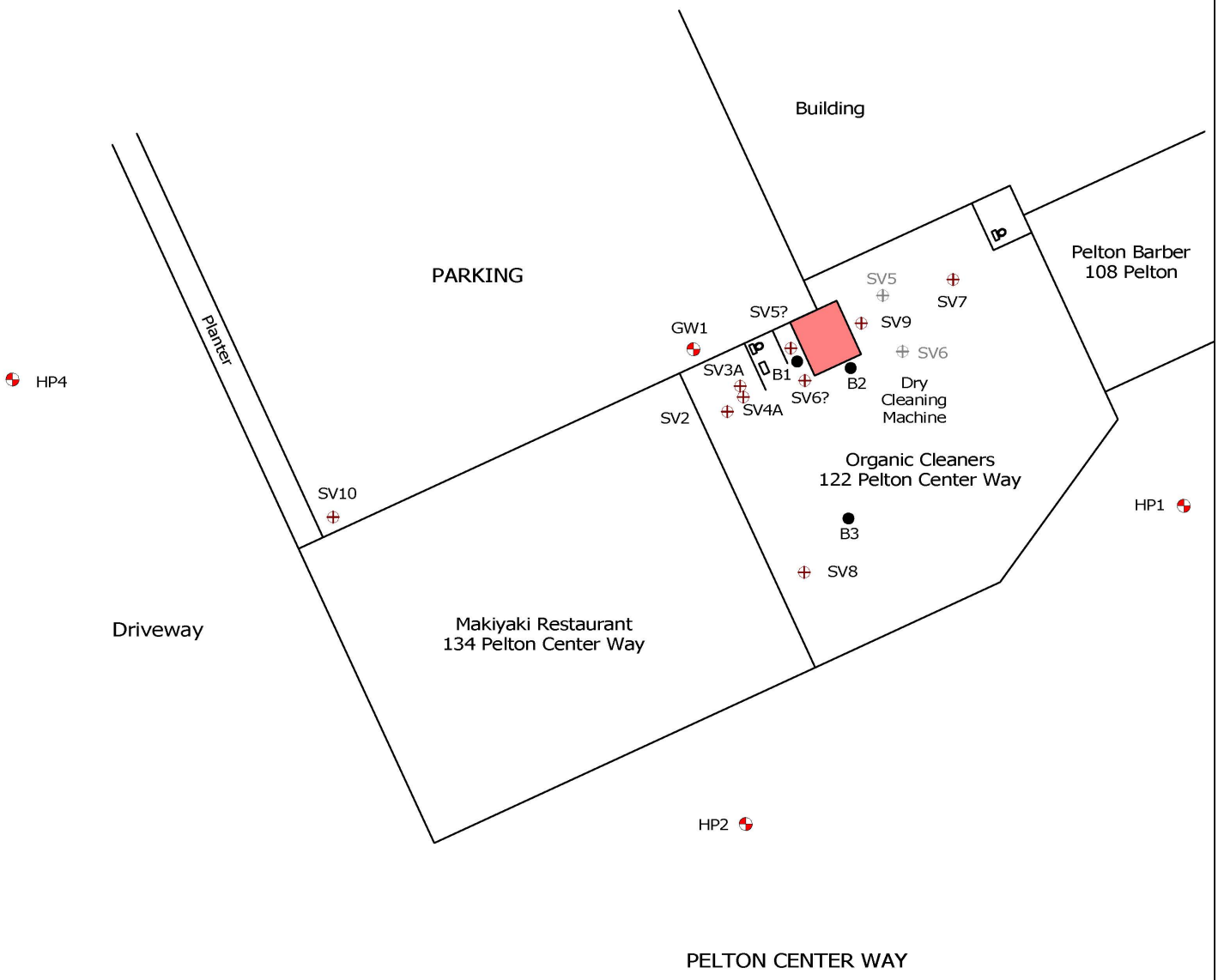
Figure 2
Site Plan – Organic Cleaners



LEGEND

- Soil Boring (WEECO - 2001)
- Soil Boring/Soil Gas Probe
- HydroPunch Boring

Probes SV5 and SV6 shown where found in black, and where indicated on previous site map in gray.

HP3

FIGURE 2
GENERAL SITE PLAN
ORGANIC CLEANERS
122 Pelton Center Way
San Leandro, California

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N

APPROXIMATE SCALE IN FEET
0 25 50

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Appendix A
Drilling Logs

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DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER SV7

PROJECT Organic Cleaners – Pelton Plaza
OWNER
LOCATION 122 Pelton Center Way, San Leandro, CA
PROJECT NUMBER
DATE DRILLED June 4, 2012
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Gregg Drilling
DRILL METHOD GeoProbe
DRILLER Jesse
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
5			0.1	SV7-5		CL	Silty CLAY; dark gray, medium plasticity, slightly moist, no odor. Install Probe SV7 at 5 feet. Seal with bentonite to surface. Remove probe after vapor sampling, resurface with concrete.

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DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER SV8

PROJECT Organic Cleaners – Pelton Plaza
OWNER
LOCATION 122 Pelton Center Way, San Leandro, CA
PROJECT NUMBER
DATE DRILLED June 4, 2012
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Gregg Drilling
DRILL METHOD GeoProbe
DRILLER Jesse
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
5			0.1	SV8-5		CL	Silty CLAY; dark gray, medium plasticity, slightly moist, no odor. Install Probe SV8 at 5 feet. Seal with bentonite to surface. Remove probe after vapor sampling, resurface with concrete.

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DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER SV9

PROJECT Organic Cleaners – Pelton Plaza
OWNER
LOCATION 122 Pelton Center Way, San Leandro, CA
PROJECT NUMBER
DATE DRILLED June 4, 2012
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Gregg Drilling
DRILL METHOD GeoProbe
DRILLER Jesse
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
5			0.1	SV9-5		CL	Silty CLAY; dark gray, medium plasticity, slightly moist, no odor. Install Probe SV9 at 5 feet. Seal with bentonite to surface. Remove probe after vapor sampling, resurface with concrete.

CITADEL
ENVIRONMENTAL SERVICES, INC.

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER SV10

PROJECT Organic Cleaners – Pelton Plaza
OWNER
LOCATION 122 Pelton Center Way, San Leandro, CA
PROJECT NUMBER
DATE DRILLED June 4, 2012
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Gregg Drilling
DRILL METHOD GeoProbe
DRILLER Jesse
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
5			0.1	SV10-5		CL	Silty CLAY; dark gray, medium plasticity, slightly moist, no odor. Install Probe SV10 at 5 feet. Seal with bentonite to surface. Remove probe after vapor sampling, resurface with concrete.

DRILL/LITHOLOGIC LOG

CITADEL ENVIRONMENTAL SERVICES, INC.

BORING/WELL NUMBER HP1

PROJECT Organic Cleaners – Pelton Plaza
OWNER
LOCATION 122 Pelton Center Way, San Leandro, CA
PROJECT NUMBER
DATE DRILLED June 4, 2012
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Gregg Drilling
DRILL METHOD GeoProbe
DRILLER Jesse
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
6			0.1	HP1-6		CL	Silty CLAY; dark gray, medium plasticity, slightly moist, no odor.
12			0.1	HP1-12		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
18			0.1	HP1-18		CL	Silty CLAY; brown, medium plasticity, mottled, slightly moist, no odor.
24			0.1	HP1-24		CL	Silty CLAY; brown, medium plasticity, some very fine to medium grained sand, no odor.
							10% fine gravel at 28 feet
30			0.1	HP1-30		CL	Silty CLAY; light brown, medium plasticity, moist, no odor.
36			0.1	HP1-36		CL/SC	Silty CLAY; brown, medium plasticity, moist to wet. Changes to Clayey SAND; brown, very fine to coarse grained, wet , no odor.
							Collect in-situ groundwater sample at 36 ft. Seal with bentonite, resurface with concrete.

DRILL/LITHOLOGIC LOG

CITADEL ENVIRONMENTAL SERVICES, INC.

BORING/WELL NUMBER HP2

PROJECT Organic Cleaners – Pelton Plaza
OWNER
LOCATION 122 Pelton Center Way, San Leandro, CA
PROJECT NUMBER
DATE DRILLED June 4, 2012
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Gregg Drilling
DRILL METHOD GeoProbe
DRILLER Jesse
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
6			0.1	HP2-6		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
12			0.1	HP2-12		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
18			0.1	HP2-18		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
24			0.1	HP2-24		CL	Silty CLAY; brown, medium plasticity, some very fine grained sand, no odor.
							Soft at 28 feet
30			0.1	HP2-30		CL	Silty CLAY; brown, medium plasticity, moist, no odor.
36			0.1	HP2-36		CL	Silty CLAY; brown, medium plasticity, very moist to wet, no odor.
							Collect in-situ groundwater sample at 36 ft. Seal with bentonite, resurface with concrete.

CITADEL
ENVIRONMENTAL SERVICES, INC.

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HP3

PROJECT Organic Cleaners – Pelton Plaza
OWNER
LOCATION 122 Pelton Center Way, San Leandro, CA
PROJECT NUMBER
DATE DRILLED June 5, 2012
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Gregg Drilling
DRILL METHOD GeoProbe
DRILLER Jesse
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
6			0.1	HP3-6		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
12			0.1	HP3-12		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
18			0.1	HP3-18		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
24			0.1	HP3-24		CL	Silty CLAY; brown, medium plasticity, lens of silty sand, minor gravel, no odor.
30			0.1	HP3-30		CL	Silty CLAY; brown, medium plasticity, moist, no odor.
36			0.1	HP3-36		CL	Silty CLAY; brown, medium plasticity, wet, no odor. Collect in-situ groundwater sample at 36 ft. Seal with bentonite, resurface with concrete.

CITADEL
ENVIRONMENTAL SERVICES, INC.

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HP4

PROJECT Organic Cleaners – Pelton Plaza
OWNER
LOCATION 122 Pelton Center Way, San Leandro, CA
PROJECT NUMBER
DATE DRILLED June 5, 2012
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Gregg Drilling
DRILL METHOD GeoProbe
DRILLER Jesse
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
6			0.1	HP4-6		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
12			0.1	HP4-12		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
18			0.1	HP4-18		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
24			0.1	HP4-24		CL	Silty CLAY; brown, medium plasticity, slightly moist, no odor.
30			0.1	HP4-30		CL	Silty CLAY; brown, medium plasticity, moist, no odor.
36			0.1	HP4-36		CL	Silty CLAY; brown, medium plasticity, wet, no odor. Collect in-situ groundwater sample at 36 ft. Seal with bentonite, resurface with concrete.

CITADEL
ENVIRONMENTAL SERVICES, INC.

Appendix B
Photographic Documentation

CITADEL ENVIRONMENTAL SERVICES, INC.

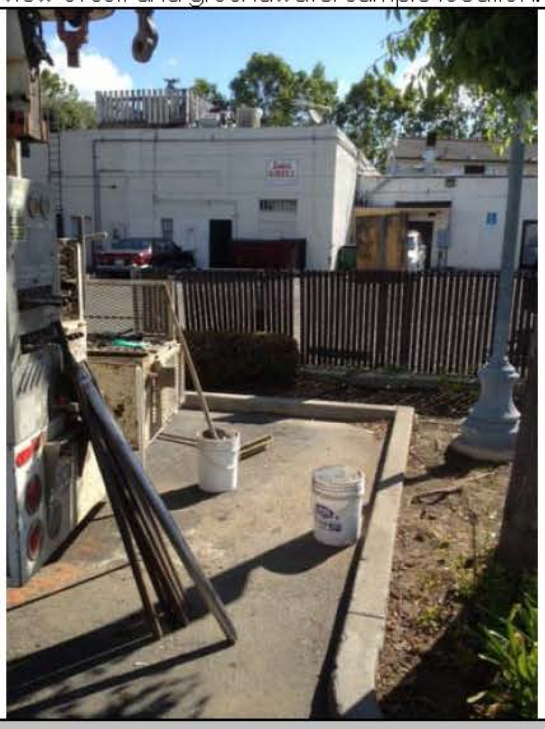
Pelton Plaza **Citadel Project No. 0365.1001.0**	**Phase II Subsurface Investigation Report** **Organic Cleaners** **San Leandro, California 94577**

PHOTO A: PROBE HP1
View of soil and groundwater sample location.

PHOTO B: PROBE HP2
View of soil and groundwater sample location.

PHOTO C: PROBE HP3
View of soil and groundwater sample location.

PHOTO D: PROBE HP4
View of soil and groundwater sample location.



CITADEL ENVIRONMENTAL SERVICES, INC.

Pelton Plaza **Citadel Project No. 0365.1001.0**	**Phase II Subsurface Investigation Report** **Organic Cleaners** **San Leandro, California 94577**

PHOTO E: PROBE SV7

View of soil and soil gas sample location.

PHOTO F: PROBE SV8

View of soil and soil gas sample location.

PHOTO G: PROBE SV9

View of soil and soil gas sample location.

PHOTO H: PROBE SV10

View of soil and soil gas sample location.

CITADEL ENVIRONMENTAL SERVICES, INC.

Pelton Plaza **Citadel Project No. 0365.1001.0**	**Phase II Subsurface Investigation Report** **Organic Cleaners** **San Leandro, California 94577**

PHOTO I: PROBE SV8

View of vapor sample location.

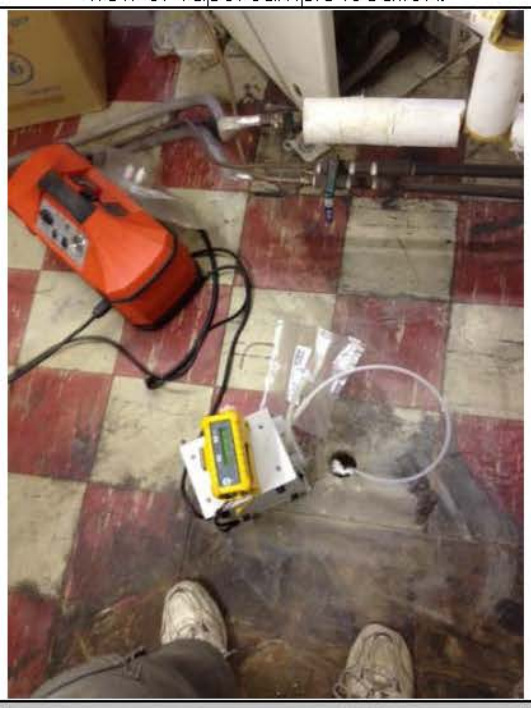


PHOTO J: NOT USED

PHOTO NOT USED.

PHOTO K: NOT USED

PHOTO NOT USED.

PHOTO L: NOT USED

PHOTO NOT USED.

CITADEL
ENVIRONMENTAL SERVICES, INC.

Appendix C
Boring Permits

Alameda County Public Works Agency - Water Resources Well Permit

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

Application Approved on: 06/01/2012 By jamesy

Permit Numbers: W2012-0353
Permits Valid from 06/04/2012 to 06/05/2012

Application Id:	1337986227942	**City of Project Site:**	San Leandro
Site Location:	122 Pelton Center Way/Pelton Plaza San Leandron, CA 94577		
Project Start Date:	06/05/2012	**Completion Date:**	06/05/2012
Assigned Inspector:	Contact James Yoo at (510) 670-6633 or jamesy@acpwa.org		
Extension Start Date:	06/04/2012	**Extension End Date:**	06/05/2012
Extension Count:	1	**Extended By:**	jamesy

Applicant:	Citadel Environmental, Inc. - Mark Drollinger 111 N. Market St., Ste. 300, San Jose, CA 95113	**Phone:**	408-418-4690
Property Owner:	Sung Paskewitz 110 Pelton Ceter Way, Ste. 3, San Leandro, CA 94577	**Phone:**	510-329-1021
Client:	** same as Property Owner **		
Contact:	Mark Drollinger	**Phone:**	408-418-4690
		Cell:	408-645-9457

	Total Due:	$265.00
Receipt Number: WR2012-0162	**Total Amount Paid:**	$265.00
Payer Name : Mark Drollinger	Paid By: VISA	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 4 Boreholes
Driller: Gregg Drilling - Lic #: 485165 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2012-0353	06/01/2012	09/03/2012	4	2.00 in.	35.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

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

4. Applicant shall contact James Yoo for an inspection time at 510-670-6633 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled,

properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

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

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

CITADEL
ENVIRONMENTAL SERVICES, INC.

Appendix D
Laboratory Report

CAL TECH Environmental Laboratories

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

ANALYTICAL RESULTS*

CTEL Project No: CT199-1206016
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/05/12 @ 12:00 p.m.
Matrix: Air
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12

Laboratory ID:	1206-016-1	1206-016-2	1206-016-3	**Method**	**Units:**	**Detection**
Client Sample ID:	SV7	SV8	SV9			**Limit**
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	ND	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	ND	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	ND	ND	ND	EPA 8260B	ug/L	0.5
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	ug/L	1

(Continued)

CTEL Project No: CT199-1206016

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Laboratory ID: / **Client Sample ID:**	1206-016-1 SV7	1206-016-2 SV8	1206-016-3 SV9	**Method**	**Units**	**Detection Limit**
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	1.7	ND	4.7	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	ND	ND	ND	EPA 8260B	ug/L	0.5
m.p-Xylene	ND	ND	ND	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	ND	ND	ND	EPA 8260B	ug/L	0.6
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Isopropylbenzene	ND	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	ND	ND	ND	EPA 8260B	ug/L	1
4-Chlorotoluene	ND	ND	ND	EPA 8260B	ug/L	1
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
tert-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trimethylbenzene	ND	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
Ethanol	ND	ND	ND	EPA 8260B	ug/L	10

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	84	87	85	70-130
1,2 Dichloromethaned4	86	83	100	70-130
Toluene-d8	101	96	100	70-130
Bromofluorobenzene	84	82	87	70-130

CTEL Project No: CT199-1206016
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/05/12 @ 12:45 p.m.
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12
Matrix: Air

		Method	Units:	Detection Limit
Laboratory ID:	1206-016-4			
Client Sample ID:	SV10			
Dilution	1			
Dichlorodifluoromethane	ND	EPA 8260B	ug/L	1
Chloromethane	ND	EPA 8260B	ug/L	1
Vinyl Chloride	ND	EPA 8260B	ug/L	0.5
Bromomethane	ND	EPA 8260B	ug/L	1
Chloroethane	ND	EPA 8260B	ug/L	1
Trichlorofluoromethane	ND	EPA 8260B	ug/L	1
Iodomethane	ND	EPA 8260B	ug/L	1
Acetone	ND	EPA 8260B	ug/L	10
1,1-Dichloroethene	ND	EPA 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	EPA 8260B	ug/L	10
Methylene Chloride	ND	EPA 8260B	ug/L	10
Freon 113	ND	EPA 8260B	ug/L	5
Carbon disulfide	ND	EPA 8260B	ug/L	1
trans,1,2-Dichloroethene	ND	EPA 8260B	ug/L	1
Methyl-tert-butyl-ether(MtBE)	ND	EPA 8260B	ug/L	1
1,1-Dichloroethane	ND	EPA 8260B	ug/L	1
Vinyl acetate	ND	EPA 8260B	ug/L	50
Diisopropyl Ether (DIPE)	ND	EPA 8260B	ug/L	1
Methyl Ethyl Ketone	ND	EPA 8260B	ug/L	10
cis,1,2-Dichloroethene	ND	EPA 8260B	ug/L	1
Bromochloromethane	ND	EPA 8260B	ug/L	1
Chloroform	ND	EPA 8260B	ug/L	1
2,2-Dichloropropane	ND	EPA 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	EPA 8260B	ug/L	1
1,1,1-Trichloroethane	ND	EPA 8260B	ug/L	1
1,2-Dichloroethane	ND	EPA 8260B	ug/L	0.5
1,1-Dichloropropene	ND	EPA 8260B	ug/L	1
Carbon Tetrachloride	ND	EPA 8260B	ug/L	0.5
Benzene	ND	EPA 8260B	ug/L	0.5
t-Amyl Methyl Ether (TAM)	ND	EPA 8260B	ug/L	1
1,2-Dichloropropane	ND	EPA 8260B	ug/L	1
Trichloroethene	ND	EPA 8260B	ug/L	1
Dibromomethane	ND	EPA 8260B	ug/L	1
Bromodichloromethane	ND	EPA 8260B	ug/L	1
2-Chloroethylvinylether	ND	EPA 8260B	ug/L	5
cis,1,3-Dichloropropene	ND	EPA 8260B	ug/L	1
4-Methyl-2-pentanone(MI)	ND	EPA 8260B	ug/L	10
trans,1,3-Dichloropropene	ND	EPA 8260B	ug/L	1
Toluene	ND	EPA 8260B	ug/L	0.5
1,1,2-Trichloroethane	ND	EPA 8260B	ug/L	1

(Continued)

CTEL Project No: CT199-1206016

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Laboratory ID: / **Client Sample ID:**	1206-016-4 SV10	**Method**	**Units**	**Detection Limit**
1,2-Dibromoethane(EDB)	ND	EPA 8260B	ug/L	0.5
1,3-Dichloropropane	ND	EPA 8260B	ug/L	1
Dibromochloromethane	ND	EPA 8260B	ug/L	1
2-Hexanone	ND	EPA 8260B	ug/L	10
Tetrachloroethene	ND	EPA 8260B	ug/L	1
Chlorobenzene	ND	EPA 8260B	ug/L	1
1,1,1,2-Tetrachloroethane	ND	EPA 8260B	ug/L	1
Ethylbenzene	ND	EPA 8260B	ug/L	0.5
m.p-Xylene	ND	EPA 8260B	ug/L	0.6
Bromoform	ND	EPA 8260B	ug/L	1
Styrene	ND	EPA 8260B	ug/L	1
o-Xylene	ND	EPA 8260B	ug/L	0.6
1,1,2,2-Tetrachloroethane	ND	EPA 8260B	ug/L	1
1,2,3-Trichloropropane	ND	EPA 8260B	ug/L	1
Isopropylbenzene	ND	EPA 8260B	ug/L	1
Bromobenzene	ND	EPA 8260B	ug/L	1
2-Chlorotoluene	ND	EPA 8260B	ug/L	1
n-Propylbenzene	ND	EPA 8260B	ug/L	1
4-Chlorotoluene	ND	EPA 8260B	ug/L	1
1,3,5-Trimethylbenzene	ND	EPA 8260B	ug/L	1
tert-Butylbenzene	ND	EPA 8260B	ug/L	1
1,2,4-Trimethylbenzene	ND	EPA 8260B	ug/L	1
sec-Butylbenzene	ND	EPA 8260B	ug/L	1
1,3-Dichlorobenzene	ND	EPA 8260B	ug/L	1
1,4-Dichlorobenzene	ND	EPA 8260B	ug/L	1
p-Isopropyltoluene	ND	EPA 8260B	ug/L	1
1,2-Dichlorobenzene	ND	EPA 8260B	ug/L	1
n-Butylbenzene	ND	EPA 8260B	ug/L	1
1,2 Dibromo-3-Chloropropane	ND	EPA 8260B	ug/L	1
1,2,4-Trichlorobenzene	ND	EPA 8260B	ug/L	1
Naphthalene	ND	EPA 8260B	ug/L	1
1,2,3-Trichlorobenzene	ND	EPA 8260B	ug/L	1
Hexachlorobutadiene	ND	EPA 8260B	ug/L	1
Ethanol	ND	EPA 8260B	ug/L	10

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	84	70-130
1,2 Dichloromethaned4	96	70-130
Toluene-d8	102	70-130
Bromofluorobenzene	84	70-130

Greg Tejirian
Laboratory Director

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

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

CAL TECH Environmental Laboratories

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

QA/QC Report

Method: 8260B

Matrix: Water / Air

Date Analyzed: 6/6/2012

Date Extracted: 6/6/2012

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethene	42	44	50	84	88	70-130	20	4
Benzene	52	49	50	104	98	70-130	20	6
Trichloroethene	46	45	50	92	90	70-130	20	2
Toluene	52	49	50	104	98	70-130	20	6
Chlorobenzene	44	42	50	88	84	70-130	20	4
m,p-Xylenes	88	84	100	88	84	70-130	20	4

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	1
PCE	ND	ug/L	1

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

Lab Job No. 05 016

Chain of Custody Record

Client: Citadel Environmental
Contact: Mark Drollinger
Address: 1725 Victory Blvd
Glendale CA
Project: Organic Cleaners 722 Dutton Center Dr San Leandro
Sampled By: (signature)
Name/Signature

Phone: 408-573-0905
Fax:

Turn Around Time
Rush 36 Hr
Normal

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	8260 (Gas)	Comments
SV 7		6-5-12 12:00	Tedlar	1	-	AIR	X	
SV 8		↓ 12:15	↓	1	↓	↓	X	
SV 9		↓ 12:30	↓	1	↓	↓	X	
SV 10		↓ 12:45	↓	1	↓	↓	X	

Relinquished: (signature) Date / Time: 6-5-2012 19:30 Received:

Dispatched : Date / Time: Carrier:

I hereby authorize the performance of the above indicated tests.
(signature)

Date / Time: 6-5-12 / 19:30 pm Received by lab: (signature)

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CAL TECH Environmental Laboratories

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

ANALYTICAL RESULTS*

CTEL Project No: CT199-1206018
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/04/12 @ 12:50 p.m.
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12 – 06/07/12
Matrix: Soil

Laboratory ID:	1206-018-2	1206-018-4	1206-018-5	**Method**	**Units:**	**Detection**
Client Sample ID:	HP1-12	HP1-24	HP1-30			**Limit**
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAM)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
cis,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.010
trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

(Continued)

CTEL Project No: CT199-1206018

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Laboratory ID: / **Client Sample ID:**	1206-018-2 HP1-12	1206-018-4 HP1-24	1206-018-5 HP1-30	**Method**	**Units**	**Detection Limit**
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Tetrachloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m.p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	89	90	84	70-130
1,2 Dichloromethaned4	103	100	84	70-130
Toluene-d8	101	95	102	70-130
Bromofluorobenzene	96	87	86	70-130

CTEL Project No: CT199-1206018
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/04/12 @ 14:00 p.m.
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12 – 06/07/12
Matrix: Soil

Laboratory ID:	1206-018-6	1206-018-8	1206-018-10	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	HP1-36	HP2-12	HP2-24			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAM)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
cis,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.010
trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

(Continued)

CTEL Project No: CT199-1206018

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Laboratory ID: / **Client Sample ID:**	1206-018-6 HP1-36	1206-018-8 HP2-12	1206-018-10 HP2-24	**Method**	**Units**	**Detection Limit**
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Tetrachloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m.p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	86	85	97	70-130
1,2 Dichloromethaned4	98	101	103	70-130
Toluene-d8	99	101	97	70-130
Bromofluorobenzene	91	90	85	70-130

CTEL Project No: CT199-1206018
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/04/12 @ 11:50 am
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12 – 06/07/12
Matrix: Soil

Laboratory ID:	1206-018-11	1206-018-12	1206-018-14	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	HP2-30	HP2-36	HP3-12			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAM)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
cis,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.010
trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

(Continued)

CTEL Project No: CT199-1206018

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Laboratory ID: / **Client Sample ID:**	1206-018-11 HP2-30	1206-018-12 HP2-36	1206-018-14 HP3-12	**Method**	**Units**	**Detection Limit**
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Tetrachloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m.p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	92	96	94	70-130
1,2 Dichloromethaned4	106	108	90	70-130
Toluene-d8	100	108	95	70-130
Bromofluorobenzene	82	87	87	70-130

CTEL Project No: CT199-1206018
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/04/12 @ 08:15 am
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12 – 06/07/12
Matrix: Soil

Laboratory ID:	1206-018-16	1206-018-17	1206-018-18	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	HP3-24	HP3-30	HP3-36			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAM)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
cis,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.010
trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

(Continued)

CTEL Project No: CT199-1206018

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Laboratory ID: / **Client Sample ID:**	1206-018-16 HP3-24	1206-018-17 HP3-30	1206-018-18 HP3-36	**Method**	**Units**	**Detection Limit**
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Tetrachloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m.p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	91	85	95	70-130
1,2 Dichloromethaned4	96	90	99	70-130
Toluene-d8	94	97	95	70-130
Bromofluorobenzene	84	84	94	70-130

CTEL Project No: CT199-1206018
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/05/12 @ 09:00 am
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12 – 06/07/12
Matrix: Soil

Laboratory ID:	1206-018-20	1206-018-21	1206-018-22	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	HP4-12	HP4-18	HP4-24			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAM)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
cis,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.010
trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

(Continued)

CTEL Project No: CT199-1206018

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Laboratory ID: / **Client Sample ID:**	1206-018-20 HP4-12	1206-018-21 HP4-18	1206-018-22 HP4-24	**Method**	**Units**	**Detection Limit**
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Tetrachloroethene	0.008	0.012	0.008	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m.p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	86	87	90	70-130
1,2 Dichloromethaned4	93	96	102	70-130
Toluene-d8	109	98	98	70-130
Bromofluorobenzene	85	86	89	70-130

CTEL Project No: CT199-1206018
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/05/12 @ 10:00 am
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12 – 06/07/12
Matrix: Soil

Laboratory ID:	1206-018-23	1206-018-24	1206-018-25	**Method**	**Units:**	**Detection**
Client Sample ID:	HP4-31	SV7-5'	SV8-5'			**Limit**
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAM)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
cis,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.010
trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

(Continued)

CTEL Project No: CT199-1206018

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Laboratory ID: / **Client Sample ID:**	1206-018-23 HP4-31	1206-018-24 SV7-5'	1206-018-25 SV8-5'	**Method**	**Units**	**Detection Limit**
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.010
Tetrachloroethene	0.011	0.017	0.005	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m.p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	91	104	106	70-130
1,2 Dichloromethaned4	103	102	104	70-130
Toluene-d8	101	95	95	70-130
Bromofluorobenzene	86	92	94	70-130

CTEL Project No: CT199-1206018
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/05/12 @ 09:30 am
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12 – 06/07/12
Matrix: Soil

Laboratory ID:	1206-018-26	1206-018-27	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	SV9-5'	SV10-5'			
Dilution	1	1			
Dichlorodifluoromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	EPA 8260B	mg/Kg	0.020
Freon 113	ND	ND	EPA 8260B	mg/Kg	0.010
Carbon disulfide	ND	ND	EPA 8260B	mg/Kg	0.005
trans,1,2-Dichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	EPA 8260B	mg/Kg	0.010
cis,1,2-Dichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAM)	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	EPA 8260B	mg/Kg	0.005
cis,1,3-Dichloropropene	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	EPA 8260B	mg/Kg	0.010
trans,1,3-Dichloropropene	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005

(Continued)

CTEL Project No: CT199-1206018

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Laboratory ID: / Client Sample ID:	1206-018-26 SV9-5'	1206-018-27 SV10-5'	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	EPA 8260B	mg/Kg	0.010
Tetrachloroethene	0.030	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	EPA 8260B	mg/Kg	0.001
m.p-Xylene	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
tert-Butylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
sec-Butylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY		Control Limit
Dibromofluoromethane	97	91	70-130
1,2 Dichloromethaned4	102	96	70-130
Toluene-d8	98	88	70-130
Bromofluorobenzene	97	90	70-130

Greg Tejiram
Laboratory Director

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

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

CAL TECH Environmental Laboratories

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

QA/QC Report

Method: 8260B

Matrix: Soil

Date Analyzed: 6/6/2012

Date Extracted: 6/6/2012

Perimeters	Conc. ug/Kg		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethene	44	46	50	88	92	70-130	20	4
Benzene	48	47	50	96	94	70-130	20	2
Trichloroethene	49	48	50	98	96	70-130	20	2
Toluene	51	49	50	102	98	70-130	20	4
Chlorobenzene	46	48	50	92	96	70-130	20	4
m,p-Xylenes	91	95	100	91	95	70-130	20	4

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/Kg	5
Benzene	ND	ug/Kg	5
Trichloroethene	ND	ug/Kg	5
Toluene	ND	ug/Kg	5
Chlorobenzene	ND	ug/Kg	5
m,p-Xylenes	ND	ug/Kg	5
MTBE	ND	ug/Kg	5
TBA	ND	ug/Kg	100
DIPE	ND	ug/Kg	10
ETBE	ND	ug/Kg	10
TAME	ND	ug/Kg	10
1,2-Dichloroethane	ND	ug/Kg	5
EDB	ND	ug/Kg	5
Ethylbenzene	ND	ug/Kg	5
o-Xylene	ND	ug/Kg	5

CAL TECH Environmental Laboratories

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

QA/QC Report

Method: 8260B

Matrix: Soil

Date Analyzed: 6/7/2012

Date Extracted: 6/6/2012

Perimeters	Conc. ug/Kg		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethene	42	44	50	84	88	70-130	20	4
Benzene	43	44	50	86	88	70-130	20	2
Trichloroethene	47	47	50	94	94	70-130	20	0
Toluene	51	48	50	102	96	70-130	20	6
Chlorobenzene	48	46	50	96	92	70-130	20	4
m,p-Xylenes	94	94	100	94	94	70-130	20	0

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/Kg	5
Benzene	ND	ug/Kg	5
Trichloroethene	ND	ug/Kg	5
Toluene	ND	ug/Kg	5
Chlorobenzene	ND	ug/Kg	5
m,p-Xylenes	ND	ug/Kg	5
MTBE	ND	ug/Kg	5
TBA	ND	ug/Kg	100
DIPE	ND	ug/Kg	10
ETBE	ND	ug/Kg	10
TAME	ND	ug/Kg	10
1,2-Dichloroethane	ND	ug/Kg	5
EDB	ND	ug/Kg	5
Ethylbenzene	ND	ug/Kg	5
o-Xylene	ND	ug/Kg	5

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

Lab Job No. 06-014 Page 1 of 3

Chain of Custody Record

Client: CITADEL ENVIRONMENTAL
Contact: MARK DRELLINGER
Address: 1725 VICTORY BLVD
GLENDALE CALIF
Project: ORGANIC CLEANERS 122 PEMBROKE CENTRE DR SAN LEANDRO
Sampled By: Don R Lawler
Name/Signature

Phone: 408 373 6905
Fax:

Turn Around Time
Rush 36 Hr
Normal

Analyses Requested: 8260's

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	8260's	Comments
	HP1-6	6/4/12 12:50	PLASTIC	1	ICE	SOIL		
	HP1-12	13:00					X	
	HP1-18	13:15						
	HP1-24	13:30					X	
	HP1-30	13:45					X	
	HP1-36	14:00					X	
	HP2-7	11:00						
	HP2-12	11:15					X	
	HP2-18	11:30						

Relinquished: Don R Lawler Date / Time: 6-5-12 19:30 Received:

Dispatched : Date / Time: Carrier:

I hereby authorize the performance of the above indicated tests.

Don R Lawler Date / Time: 6-5-12 / 12:30 pm Received by lab: R. Taylor

CTELCCR.DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

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

Lab Job No. 06-014 Page 1 of 3

Chain of Custody Record

Client: CITADEL ENVIRONMENTAL
Contact: MARK DOLLINGER
Address: 1725 VICTORY Blvd
GLENDALE CA
Project: ORGANIC CLEANERS 122 PELTON CENTRE WAY SAN LEANDRO
Sampled By: Dan R Lacko
Name/Signature

Phone: 408-573-6905
Fax:

Turn Around Time
Rush 36 HR
Normal

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	8260B								Comments
	HF2-24	6/4/12 18:40	ACETATE	1	ICE	SOIL	X								
	HF2-30	18:50					X								
	HF2-36	19:00					X								
	HF3-6	7:30													
	HF3-12	7:45					X								
	HF3-18	8:00													
	HF3-24	8:15					X								
	HF3-30	8:30					X								
	HF3-36	8:45	√	√	√	√	X								

Relinquished: Dan R Lacko
Date / Time: 6-6-12 19:30
Received:

Dispatched :
Date / Time:
Carrier:

I hereby authorize the performance of the above indicated tests.

Dan R Lacko

Date / Time: 6-6-12 19:30
Received by lab: R. Tyghe

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CTELCCR.DOC

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

Lab Job No. 06-016 Page 3 of 3

Chain of Custody Record

Client: CITADEL ENVIRONMENTAL
Contact: MARK BROWNING
Address: 1725 VICTORY BLVD., GLENDALE, CA

Phone: (818) 545-9457
Fax:

Turn Around Time
Rush 36 HR
Normal

Project: ORGANIC CLEANERS - 122 PELTON CENTER DRIVE SAN LEANDRO CA
Sampled By: DAN LOWE / R. Taylor
Name/Signature

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	Analyses Requested: 8260B	Comments
	HP4-6	6/5/12 9:00	ACETATE	1	ICE	SOIL		
	HP4-12	9:15					X	
	HP4-18	9:30					X	
	HP4-24	9:45					X	
	HP4-30	10:00					X	
	SV7-5'	6/5/12 7:45	ACETATE	1			X	
	SV8-5'	8:30					X	
	SV9-5'	9:30					X	
	SV10-5'	10:00					X	

Relinquished: R. Taylor Date / Time: 6-5-12 19:30 Received:

Dispatched : Date / Time: Carrier:

I hereby authorize the performance of the above indicated tests.

Date / Time: 6-5-12 / 19:30 Received by lab: R. Taylor

CTELCCR.DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CAL TECH Environmental Laboratories

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

ANALYTICAL RESULTS*

CTEL Project No: CT199-1206017
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/04/12 – 06/05/12 @ 14:10 p.m.
Matrix: Water
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12

Laboratory ID:	1206-017-1	1206-017-2	1206-017-3	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	HP1	HP2	HP3			
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	ND	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	ND	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	ND	ND	ND	EPA 8260B	ug/L	0.5
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	ug/L	1

(Continued)

CTEL Project No: CT199-1206017

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Laboratory ID: / **Client Sample ID:**	1206-017-1 HP1	1206-017-2 HP2	1206-017-3 HP3	**Method**	**Units**	**Detection Limit**
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	1.5	1.1	ND	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	ND	ND	ND	EPA 8260B	ug/L	0.5
m.p-Xylene	ND	ND	ND	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	ND	ND	ND	EPA 8260B	ug/L	0.6
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Isopropylbenzene	ND	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	ND	ND	ND	EPA 8260B	ug/L	1
4-Chlorotoluene	ND	ND	ND	EPA 8260B	ug/L	1
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
tert-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trimethylbenzene	ND	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
Ethanol	ND	ND	ND	EPA 8260B	ug/L	10

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE		% SURROGATE RECOVERY		Control Limit
Dibromofluoromethane	88	87	81	70-130
1,2 Dichloromethaned4	82	88	80	70-130
Toluene-d8	99	106	98	70-130
Bromofluorobenzene	81	85	87	70-130

CTEL Project No: CT199-1206017
Client Name: Citadel Environmental
1725 Victory Blvd.
Glendale, CA 91201
Phone:(818) 246-2707
Fax: (818) 246-3145
Attention: Mr. Mark Drollinger

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

Date Sampled: 06/05/12 @ 10:15 am
Date Received: 06/05/12 @ 19:30 p.m.
Date Analyzed 06/06/12
Matrix: Water

Laboratory ID:	1206-017-4	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	HP4			
Dilution	1			
Dichlorodifluoromethane	ND	EPA 8260B	ug/L	1
Chloromethane	ND	EPA 8260B	ug/L	1
Vinyl Chloride	ND	EPA 8260B	ug/L	0.5
Bromomethane	ND	EPA 8260B	ug/L	1
Chloroethane	ND	EPA 8260B	ug/L	1
Trichlorofluoromethane	ND	EPA 8260B	ug/L	1
Iodomethane	ND	EPA 8260B	ug/L	1
Acetone	ND	EPA 8260B	ug/L	10
1,1-Dichloroethene	ND	EPA 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	EPA 8260B	ug/L	10
Methylene Chloride	ND	EPA 8260B	ug/L	10
Freon 113	ND	EPA 8260B	ug/L	5
Carbon disulfide	ND	EPA 8260B	ug/L	1
trans,1,2-Dichloroethene	ND	EPA 8260B	ug/L	1
Methyl-tert-butyl-ether(MtBE)	ND	EPA 8260B	ug/L	1
1,1-Dichloroethane	ND	EPA 8260B	ug/L	1
Vinyl acetate	ND	EPA 8260B	ug/L	50
Diisopropyl Ether (DIPE)	ND	EPA 8260B	ug/L	1
Methyl Ethyl Ketone	ND	EPA 8260B	ug/L	10
cis,1,2-Dichloroethene	ND	EPA 8260B	ug/L	1
Bromochloromethane	ND	EPA 8260B	ug/L	1
Chloroform	ND	EPA 8260B	ug/L	1
2,2-Dichloropropane	ND	EPA 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	EPA 8260B	ug/L	1
1,1,1-Trichloroethane	ND	EPA 8260B	ug/L	1
1,2-Dichloroethane	ND	EPA 8260B	ug/L	0.5
1,1-Dichloropropene	ND	EPA 8260B	ug/L	1
Carbon Tetrachloride	ND	EPA 8260B	ug/L	0.5
Benzene	ND	EPA 8260B	ug/L	0.5
t-Amyl Methyl Ether (TAM)	ND	EPA 8260B	ug/L	1
1,2-Dichloropropane	ND	EPA 8260B	ug/L	1
Trichloroethene	ND	EPA 8260B	ug/L	1
Dibromomethane	ND	EPA 8260B	ug/L	1
Bromodichloromethane	ND	EPA 8260B	ug/L	1
2-Chloroethylvinylether	ND	EPA 8260B	ug/L	5
cis,1,3-Dichloropropene	ND	EPA 8260B	ug/L	1
4-Methyl-2-pentanone(MI)	ND	EPA 8260B	ug/L	10
trans,1,3-Dichloropropene	ND	EPA 8260B	ug/L	1
Toluene	ND	EPA 8260B	ug/L	0.5
1,1,2-Trichloroethane	ND	EPA 8260B	ug/L	1

(Continued)

CTEL Project No: CT199-1206017

Project ID: Organic Cleaners
Project Name: 122 Pelton Center Dr., San Leandro

	Laboratory ID: 1206-017-4	**Client Sample ID:** HP4	**Method**	**Units**	**Detection Limit**
1,2-Dibromoethane(EDB)	ND		EPA 8260B	ug/L	0.5
1,3-Dichloropropane	ND		EPA 8260B	ug/L	1
Dibromochloromethane	ND		EPA 8260B	ug/L	1
2-Hexanone	ND		EPA 8260B	ug/L	10
Tetrachloroethene	14		EPA 8260B	ug/L	1
Chlorobenzene	ND		EPA 8260B	ug/L	1
1,1,1,2-Tetrachloroethane	ND		EPA 8260B	ug/L	1
Ethylbenzene	ND		EPA 8260B	ug/L	0.5
m.p-Xylene	ND		EPA 8260B	ug/L	0.6
Bromoform	ND		EPA 8260B	ug/L	1
Styrene	ND		EPA 8260B	ug/L	1
o-Xylene	ND		EPA 8260B	ug/L	0.6
1,1,2,2-Tetrachloroethane	ND		EPA 8260B	ug/L	1
1,2,3-Trichloropropane	ND		EPA 8260B	ug/L	1
Isopropylbenzene	ND		EPA 8260B	ug/L	1
Bromobenzene	ND		EPA 8260B	ug/L	1
2-Chlorotoluene	ND		EPA 8260B	ug/L	1
n-Propylbenzene	ND		EPA 8260B	ug/L	1
4-Chlorotoluene	ND		EPA 8260B	ug/L	1
1,3,5-Trimethylbenzene	ND		EPA 8260B	ug/L	1
tert-Butylbenzene	ND		EPA 8260B	ug/L	1
1,2,4-Trimethylbenzene	ND		EPA 8260B	ug/L	1
sec-Butylbenzene	ND		EPA 8260B	ug/L	1
1,3-Dichlorobenzene	ND		EPA 8260B	ug/L	1
1,4-Dichlorobenzene	ND		EPA 8260B	ug/L	1
p-Isopropyltoluene	ND		EPA 8260B	ug/L	1
1,2-Dichlorobenzene	ND		EPA 8260B	ug/L	1
n-Butylbenzene	ND		EPA 8260B	ug/L	1
1,2 Dibromo-3-Chloropropane	ND		EPA 8260B	ug/L	1
1,2,4-Trichlorobenzene	ND		EPA 8260B	ug/L	1
Naphthalene	ND		EPA 8260B	ug/L	1
1,2,3-Trichlorobenzene	ND		EPA 8260B	ug/L	1
Hexachlorobutadiene	ND		EPA 8260B	ug/L	1
Ethanol	ND		EPA 8260B	ug/L	10

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	85	70-130
1,2 Dichloromethaned4	86	70-130
Toluene-d8	104	70-130
Bromofluorobenzene	88	70-130

Greg Tejirian
Laboratory Director

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

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

CAL TECH Environmental Laboratories

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

QA/QC Report

Method: 8260B

Matrix: Water / Air

Date Analyzed: 6/6/2012

Date Extracted: 6/6/2012

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethene	42	44	50	84	88	70-130	20	4
Benzene	52	49	50	104	98	70-130	20	6
Trichloroethene	46	45	50	92	90	70-130	20	2
Toluene	52	49	50	104	98	70-130	20	6
Chlorobenzene	44	42	50	88	84	70-130	20	4
m,p-Xylenes	88	84	100	88	84	70-130	20	4

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	1
PCE	ND	ug/L	1

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

Lab Job No. 06-017 Page 1 of 1

Chain of Custody Record

Client: CITADEL ENVIROMENTAL
Contact: MARK DROLLINGER
Address: 1225 VICTORY BLVD
GLENDALE CALIF
Project: ORGANIC CLEANERS
Sampled By: RON R Lewis
Name/Signature

Phone: ~~408~~ 818-573-6905
Fax: _____

122 PELTON CENTRE DR
SAN LEANDRO

Turn Around Time
Rush 36 HR
Normal _____

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	Analyses Requested: 8260B								Comments
	HP1	6/4/12 12:00	VOA	2	ICE	W	X								
	HP2	6/4/12 14:15	↓	↓	↓	↓	X								
	HP3	6/5/12 8:50	↓	↓	↓	↓	X								
	HP4	6/5/12 10:15	↓	↓	↓	↓	X								

Relinquished: Ron R Lewis Date / Time: 6-5-12 19:30 Received: _____

Dispatched : _____ Date / Time: _____ Carrier: _____

I hereby authorize the performance of the above indicated tests.
Ron R Lewis

Date / Time: 6-5-12 | 19:30 Received by lab: R. Yoshioka

CTELCCR.DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CITADEL
ENVIRONMENTAL SERVICES, INC.

Appendix E
Vapor Intrusion Modeling Results

DATA ENTRY SHEET

SG-ADV-Version 3.
Dedicated commer

updated URF
and RfC 05/07

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
127184	4.70E+03			Tetrachloroethylene

MORE

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Totals must add up to value of Ls (cell F24) Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
15	150	24	150	0	0	SIC		

MORE

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
SIC	1.38	0.481	0.216						0	0	0

MORE

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	244	0.1	1	5

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
9.0E-07	1.2E-02

DATA ENTRY SHEET

SG-ADV-Version 3.
Dedicated commer

updated URF
and RfC 05/07

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
127184	7.70E+04			Tetrachloroethylene

MORE

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Totals must add up to value of Ls (cell F24) Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
15	150	24	150	0	0	SIC		

MORE

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
SIC	1.38	0.481	0.216						0	0	0

MORE

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	244	0.1	1	5

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.5E-05	2.0E-01