

Edd Clark & Associates, Inc.

Environmental Consultants

April 2, 2008

Job No.: 0585,002.07

Alameda County Environmental Health LOP  
% Donna Drogos  
1131 Harbor Bay Parkway  
Alameda, California 94502-6577

**Report: Soil and Groundwater Investigation**  
**1530 - 1540 Solano Avenue**  
**Albany, California**

Dear Mrs. Donna Drogos,

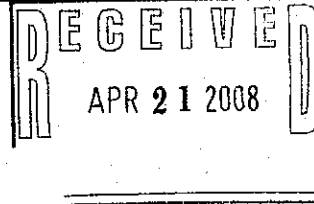
Please accept this as the cover letter for Edd Clark and Associates, Inc.'s (EC&A's) January 30, 2008 *Report: Soil and Groundwater Investigation* at 1530-1540 Solano Avenue (site), Albany, CA. Please review this report and respond to EC&A's recommendations. EC&A is the environmental consultant for the Responsible Party, which is the Blank Family Trust. There are three trustees:

Mrs. Muriel T. Blank  
1164 Solano Avenue #406  
Albany, California 94706  
(510) 525-2240

Mrs. Marcia B. Kelly  
641 SW Morningside Rd.  
Topeka, Kansas 66615  
(785) 272-6903  
[marciabkelly@earthlink.net](mailto:marciabkelly@earthlink.net)

Rev. Deborah Blank  
1563 Solano Avenue #344  
Berkeley, California 94707  
(510) 325-4818  
[miracoli@earthlink.net](mailto:miracoli@earthlink.net)

As requested by the Alameda County Environmental Health LOP (County), all reports and correspondence, including this cover letter and the June 13, 2007 *Phase I Environmental Site Assessment* for this site, will be electronically submitted to the County per the instructions on their website.



RECEIVED

2:44 pm, Apr 25, 2008

Alameda County  
Environmental Health

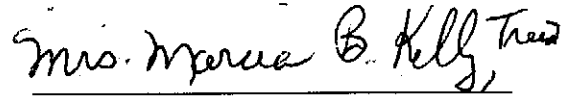
Please note that an Underground Storage Tank Unauthorized Release (Leak)/ Contamination Site Report form is included as Appendix C in EC&A's January 30, 2008 *Report: Soil and Groundwater Investigation* report. Please send copies of all correspondence regarding this property to EC&A. Please call E.J. VandenBosch or Edd Clark at 707-792-9500 should you require any further information at this time.

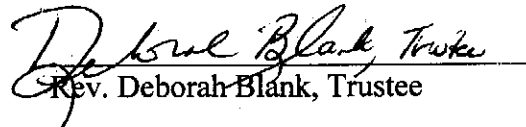
Sincerely,



Etta Jon (E.J.) VandenBosch  
Edd Clark & Associates, Inc.  
PO Box 3039  
Rohnert Park, CA 94927  
(707) 792-9500 - ph  
(707) 792-9504 - fax  
[ejv@sonic.net](mailto:ejv@sonic.net)

  
Mrs. Muriel T. Blank, Trustee

  
Mrs. Marcia B. Kelly, Trustee

  
Rev. Deborah Blank, Trustee

cc: Ms. Sandy Hrychick, Asset Management

0585/Cover Ltr



January 30, 2008

Job No.: 0585,002.07

Blank Family Trust  
% Mrs. Muriel T. Blank  
1164 Solano Avenue #406  
Albany, California 94706

**Report: Soil and Groundwater Investigation  
1530 - 1540 Solano Avenue  
Albany, California**

Dear Mrs. Blank:

Please accept this as Edd Clark & Associates, Inc.'s (EC&A's) report on the soil and groundwater investigation conducted at 1530 - 1540 Solano Avenue (site) in Albany, California. A Site Location Map is presented on Figure 1. The results of a Phase I Environmental Site Assessment (ESA) of this property, conducted by EC&A in June 2007, indicated that historical uses of the site were such that soil and/or groundwater may be impacted by fuel hydrocarbons (FHCs) and/or dry cleaning fluids. For this reason, EC&A recommended performance of the soil and groundwater investigation described in this report. The investigation was conducted in accordance with EC&A's October 29, 2007 *Workplan: Soil and Groundwater Investigation*. The workplan was requested by the Blank Family Trust to assess soil and groundwater conditions in the area of the site that was formerly occupied by an automotive service station and in the vicinity of the existing dry cleaner facility.

**SCOPE OF WORK**

The soil and groundwater investigation included the following activities.

- Preparation and submittal of a boring permit application to the Alameda County Public Works Agency (ACPWA) with the appropriate fee;
- Advancement of six exploratory soil borings;
- Collection of soil samples from the borings for chemical analyses and evaluation of soil lithology;
- Collection of grab-groundwater samples from four of the borings for chemical analyses; and
- Preparation of this report summarizing the work completed and presenting conclusions and recommendations regarding site conditions.

**SITE DESCRIPTION**

The site is on the east side of the city of Albany, California, and occupies the southwest corner of the intersection of Solano and Peralta Avenues. Solano Avenue slopes down to the west from the

Berkeley Hills to a location near East Shore Highway 80 and San Francisco Bay. Topographic maps of the area indicate a generally westerly or southwesterly surface gradient in the site vicinity. The groundwater flow-direction is probably also generally westerly, toward San Francisco Bay.

The portion of the site that is presently occupied by a 7-Eleven store (1540) and Clean Living Cleaners (1538) was occupied by a residence in 1929 and a different residence and an automotive service station structure as early as 1939. Reverend (Rev.) Deborah Blank, a member of the Blank Family Trust, stated that her father bought this property in about 1956, and the service station continued in operation at this location between 1950 and 1959. Reportedly, one underground storage tank (UST) for gasoline was removed from this property when the service station structure was razed in about 1960. The June 2007 ESA revealed no regulatory agency records or other evidence of appropriate abandonment and/or removal of the UST.

## **DECEMBER 2007 SOIL AND GROUNDWATER INVESTIGATION**

### **Soil Boring Advancement and Sample Collection**

EC&A directed the advancement of six exploratory soil borings (B-1 through B-6) and collected soil and grab-groundwater samples from four of them for chemical analyses. The borings were advanced on December 12 and 13, 2007, under permit issued by the ACPWA. A copy of the permit is in Appendix A. B-1, B-2 and B-4 were drilled to depths of 20.5 feet (ft) below ground surface (bgs), and B-5 to 20.2 ft bgs. B-3A met auger refusal at 12 ft bgs; therefore, an additional boring (B-3B) was advanced at a location 5 ft to the north of B-3A. Auger refusal was met at 13 ft bgs in this boring. B-1 was advanced in the patio area adjacent to the crawl/storage space beneath the dry cleaning facility. The dry cleaning machine is located approximately 10 ft to the northeast and 10 ft above B-1, at Clean Living Cleaners. B-2 through B-5 were advanced in the area formerly occupied by the automotive service station. Boring locations are shown on Figure 2. B-1 was drilled with a portable drill rig, B-2 through B-5 with a DR10K truck-mounted drill rig. Both drill rigs were equipped with 4-inch-outside-diameter, solid-stem augers. Clear Heart Drilling, Inc., of Santa Rosa, California, provided drilling services.

Drilling was performed under the technical direction of an EC&A field geologist who classified the soils encountered, maintained a continuous log of the lithology and assisted in obtaining soil and groundwater samples. The field work was performed under the supervision of a California Professional Geologist. EC&A personnel field screened the breathing zone continuously, and the soil samples, for organic vapors with a photoionization detector (PID). Boring logs describing soil lithology encountered in each boring are presented on Figures 3 through 7. Soils were described using the Unified Soil Classification System, which is presented on Figure 8.

### **Soil Sampling Procedures**

Soil samples were collected from each boring at a minimum of every 5 ft, at any change in lithology, any obviously contaminated soil, and where possible, at the approximate soil/groundwater interface. Soil samples were collected using a split-spoon sampling apparatus containing 2-inch-diameter by 6-inch-long stainless steel liners. When a boring was advanced to the selected sampling depth, the drill rods were removed and the sampler lowered into the bottom of the hole and driven

approximately 18 inches into soil ahead of the auger with a 140-pound, drill-rig-operated hammer. The sample tube ends were sealed with Teflon™ squares and plastic end caps. Soil samples were selected for laboratory analyses based on field screening (odor, staining, etc.) and PID measurements. Soil samples submitted for laboratory analyses were labeled, logged on a chain-of-custody form and placed on ice for transport to McCampbell Analytical, Inc., (MAI) for chemical analyses. MAI is a State-certified laboratory located in Pittsburg, California.

#### Grab-groundwater Sampling Procedures

A grab-groundwater sample was collected from B-1, B-2, B-4 and B-5 as soon as sufficient water was present in each of the boreholes to enable sample collection. Groundwater was not encountered in B-3A or in B-3B. Each groundwater sample was collected by lowering a new single-sample, disposable bailer, fitted with a disposable bottom-emptying device to minimize water degassing, into the boreholes for sample collection. Groundwater was transferred from the bailers to the appropriate laboratory-supplied, sterile sample containers, labeled, logged on a chain-of-custody form and placed on ice for transport to MAI for chemical analysis.

#### Equipment Cleaning Procedures and Waste Containment

In order to minimize the possibility of cross-contamination, all downhole drilling and sampling equipment was appropriately cleaned prior to use. The augers were steam cleaned before drilling commenced and between borings. The soil- and water-sampling equipment was either steam cleaned or washed in a soap-and-water solution and double rinsed with tap water before samples were collected.

Drill cuttings from the soil borings and rinse water from decontamination procedures were placed in appropriately labeled and sealed DOT 17H 55-gallon drums for temporary, onsite storage. EC&A personnel collected a composite soil sample from the soil drums and an aliquot water sample from the decontamination water drums. The samples were submitted to MAI for chemical analyses in order to evaluate disposal options.

#### Soil Boring Abandonment

Following sample collection, the borings were backfilled by tremie grouting to within 5 ft of the ground surface, then filled with bentonite chips to within about 0.5 ft of the ground surface. Bentonite chips were used to backfill the upper portion of each boring, with verbal permission from the ACPWA, in order to prevent the runoff of groundwater that was present in the borings and displaced by the cement grout backfill. The top 1 ft to 0.5 ft of each boring was capped with asphalt or cement to match surrounding grade.

#### **Sample Analyses and Analytical Results**

The soil and grab-groundwater samples collected from B-2, B-4 and B-5, and the soil samples from B-3A, were analyzed for total petroleum hydrocarbons (TPH) as gasoline (g), TPH as diesel (d), TPH as motor oil (mo), benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tert-butyl ether (MTBE) by Analytical Methods SW8015Cm/8015C/8021B. Soil and grab-groundwater samples from B-1 were analyzed for halogenated volatile organic compounds (HVOCs) by Analytical Method SW8260B (8010 Basic Target List). The composite soil and aliquot water samples from the waste drums were analyzed for all of the analytes listed above.

Fifteen soil samples (four from B-1, two from B-3A and three from B-2, B-4 and B-5) and four grab-groundwater samples (one each from B-1, B-2, B-4 and B-5) were submitted to the laboratory for chemical analyses. The second number in the soil sample ID is the depth, in ft bgs, from which the sample was collected.

### Soil Samples

#### *Dry Cleaner Area*

Tetrachloroethene (PCE) was detected in two soil samples collected from the dry cleaner boring (B-1), at concentrations of 0.16 milligrams per kilogram (mg/kg) in B-1d10.5, and 0.43 mg/kg in B-1d15.0.

#### *Former Service Station Location*

TPHg and TPHd were detected in 3 of the 11 soil samples from the vicinity of the former service station location, at maximum concentrations of 2.6 mg/kg TPHg and 6.8 mg/kg TPHd, both detected in sample B-5d10.0. TPHmo was also detected in this sample at a concentration of 9.1 mg/kg. Minor concentrations of benzene, toluene and/or xylenes were detected in soil samples B-2d15.0 and B-2d20.0.

### Grab-groundwater Samples

#### *Dry Cleaner Area*

PCE was detected in the grab-groundwater sample from the B-1 in the patio area, at a concentration of 2.9 micrograms per liter ( $\mu\text{g/l}$ ).

#### *Former Service Station Location*

TPHd was detected in B-5W at a concentration of 200  $\mu\text{g/l}$ . Benzene and toluene were detected in samples B-2W and B-5W at maximum concentrations of 0.67  $\mu\text{g/l}$  and 0.59  $\mu\text{g/l}$ , respectively.

Analytical results for soil and grab-groundwater samples from the borings are presented on Tables 1 and 2, respectively. Complete copies of the analytical laboratory reports are in Appendix B.

## **HYDROGEOLOGY**

The subject property is located within the California geomorphic province known as the Coast Ranges. This province is a geologically complex and seismically active region characterized by sub-parallel northwest-trending faults, mountain ranges and valleys. Prevalent bedrock in the area consists of the Jurassic-Cretaceous Franciscan Complex originally deposited in a marine environment. Extensive folding and faulting during late Cretaceous through early Tertiary geologic time created complex geologic conditions that underlie the highly varied topography typical of the region. In valleys, the bedrock is covered by alluvial soils.

According to U.S. Geologic Survey (USGS), Geologic Map and Map Database of the Oakland Metropolitan Area, Alameda, Contra Costa and San Francisco Counties, California, R.W. Graymer, 2000, the site is underlain by Quaternary (Pleistocene) age alluvial fan and fluvial deposits (Q<sub>pat</sub>). The nearest major fault is the Hayward Fault Zone, approximately 2/3 of a mile to the northeast. The San Andreas fault zone is located approximately 18 miles to the southwest.

Lithology encountered during the December 2007 drilling at the site indicated a hard silty to sandy clay present at depths ranging from approximately 0.5-1.5 ft bgs to 20.5 ft bgs, the total depth explored. Thin lenses (<3-ft-thick) of silty to clayey sand were encountered in B-1 and B-5 at approximate depths of 3.5 and 6 ft bgs, respectively. In B-4, an approximate 4-ft-thick lense of sandy silt was encountered at approximately 2 ft bgs. Weathered bedrock was first encountered in all the borings at depths ranging from 6.5 ft and 12.5 ft bgs; bedrock was encountered at approximately 8 ft bgs in B-3A and B-3B, and at approximately 20.5 ft bgs in B-1, B-2 and B-4. Copies of Borings Logs are presented as Figures 3 through 7.

Groundwater was first encountered in B-2, B-4 and B-5 at a depth of approximately 20 ft bgs, and not initially encountered during drilling in B-1, B-3A and B-3B. After drilling was completed and the borings left open for a few hours, groundwater rose to about 18 ft bgs in B-1, 16 ft in B-2, 13 ft in B-4 and 17 ft in B-5. Groundwater did not enter B-3A or B-3B.

## CONCLUSIONS

Analyses of soil and groundwater samples from the borings advanced in and around the former service station location indicate that a very localized, minor release of FHCs to the subsurface occurred as a result of the site's historical operation as a fueling service station. However, none of the analytes detected in soil samples from these borings exceeded the San Francisco Bay Regional Water Quality Control Board's (SFBRWQCB's) November 2007 Environmental Screening Levels (ESLs) for shallow and deep soils where groundwater is a current or potential source of drinking water. Additionally, with the exception of the 200 µg/l TPHd detected in B-5W, the groundwater samples did not contain FHCs in amounts exceeding the SFBRWQCB's November 2007 Groundwater Screening Levels (GSLs) for groundwater that is a current or potential drinking water resource.

Analyses of soil and groundwater samples from B-1, which was advanced about 10 ft beneath and 10 ft southwest of the dry cleaning machine, indicate that a minor release of PCE to the subsurface occurred in this area. However, concentrations of PCE in both soil and groundwater samples from this boring did not exceed the SFBRWQCB's November 2007 ESL of 0.7 mg/kg (soil) and GSL of 5.0 µg/l (water) for this analyte.

## RECOMMENDATIONS

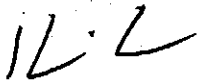
Based on the relatively minor amounts of analytes detected in soil and groundwater samples collected during the December 2007 investigation, additional investigation at this site does not appear warranted.

**LIMITATIONS**

The conclusions presented in this report are professional opinions based on the information presented herein, which includes data generated by others. Whereas EC&A does not guarantee the accuracy of data supplied by third parties, we reserve the right to use this data in formulating our professional opinions. This report is intended only for the indicated purpose and project site. Conclusions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the site property can occur with time because of natural processes or the works of man on the site or adjacent properties. In addition, changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

Thank you for choosing EC&A to provide environmental consulting services on this project. Please call if you have any questions.

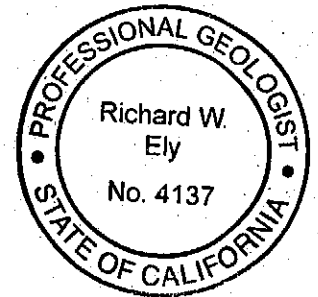
Sincerely,



Kevin L. Coker, REA  
Project Scientist



Richard Ely, PG #4137  
Project Geologist



- Attachments: Figure 1 - Site Location Map  
Figure 2 - Site Plan  
Figure 3 - Log of Soil Boring B-1  
Figure 4 - Log of Soil Boring B-2  
Figure 5 - Log of Soil Boring B-3A/3B  
Figure 6 - Log of Soil Boring B-4  
Figure 7 - Log of Soil Boring B-5  
Figure 8 - Unified Soil Classification System

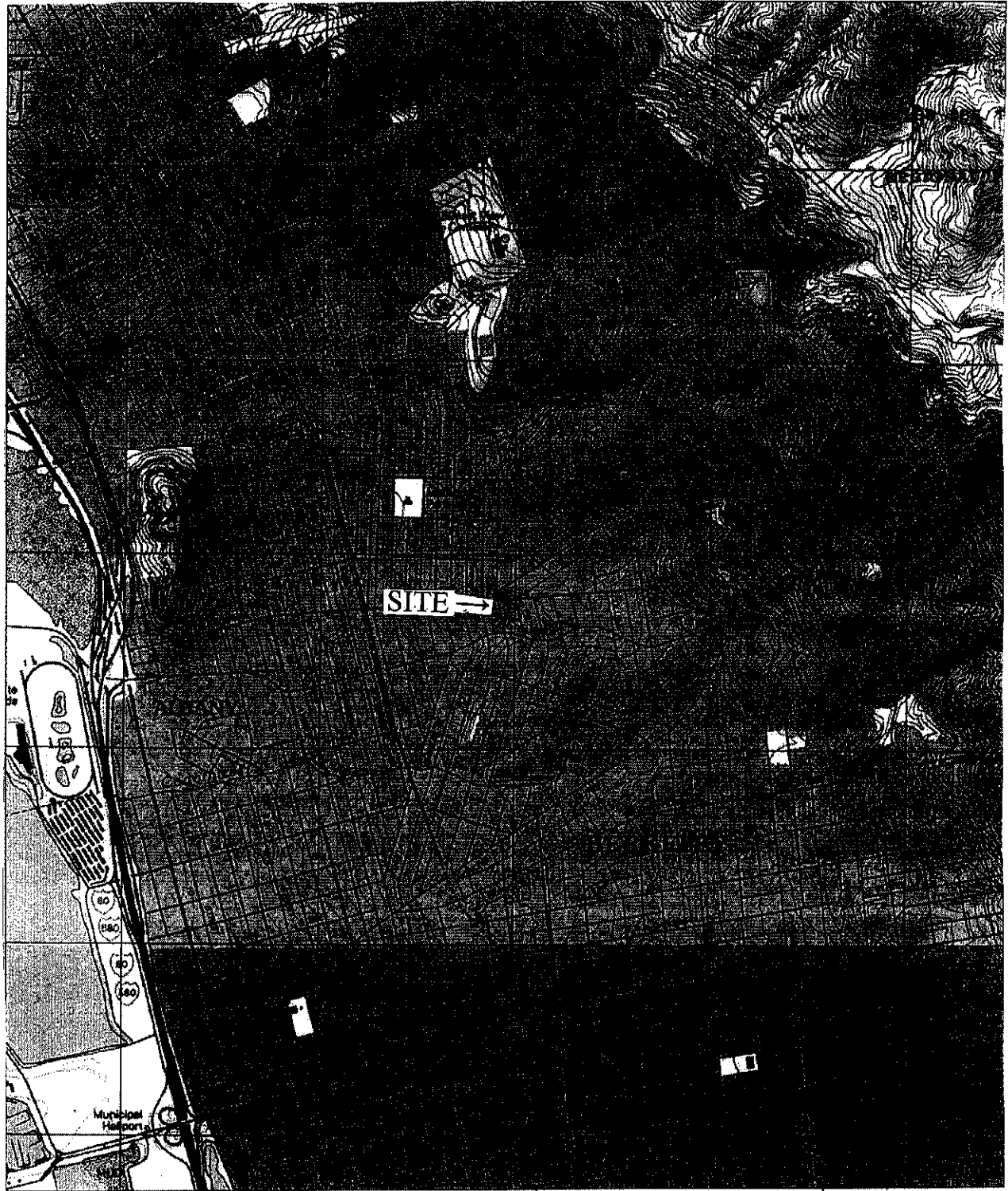
- Table 1 - Analytical Results - Soil Samples from Borings  
Table 2 - Analytical Results - Grab-groundwater Samples from Borings

- Appendix A - Boring Permit  
Appendix B - Analytical Laboratory Reports  
Appendix C - Underground Storage Tank Unauthorized Release (Leak)/  
Contamination Site Report

cc: Rev. Deborah Blank  
Ms. Marcia Kelly  
Ms. Sandy Hrychick

0585\PSI report





TN 15° MN

122°18.000' W

122°17.000' W

WGS84 122°16.000' W

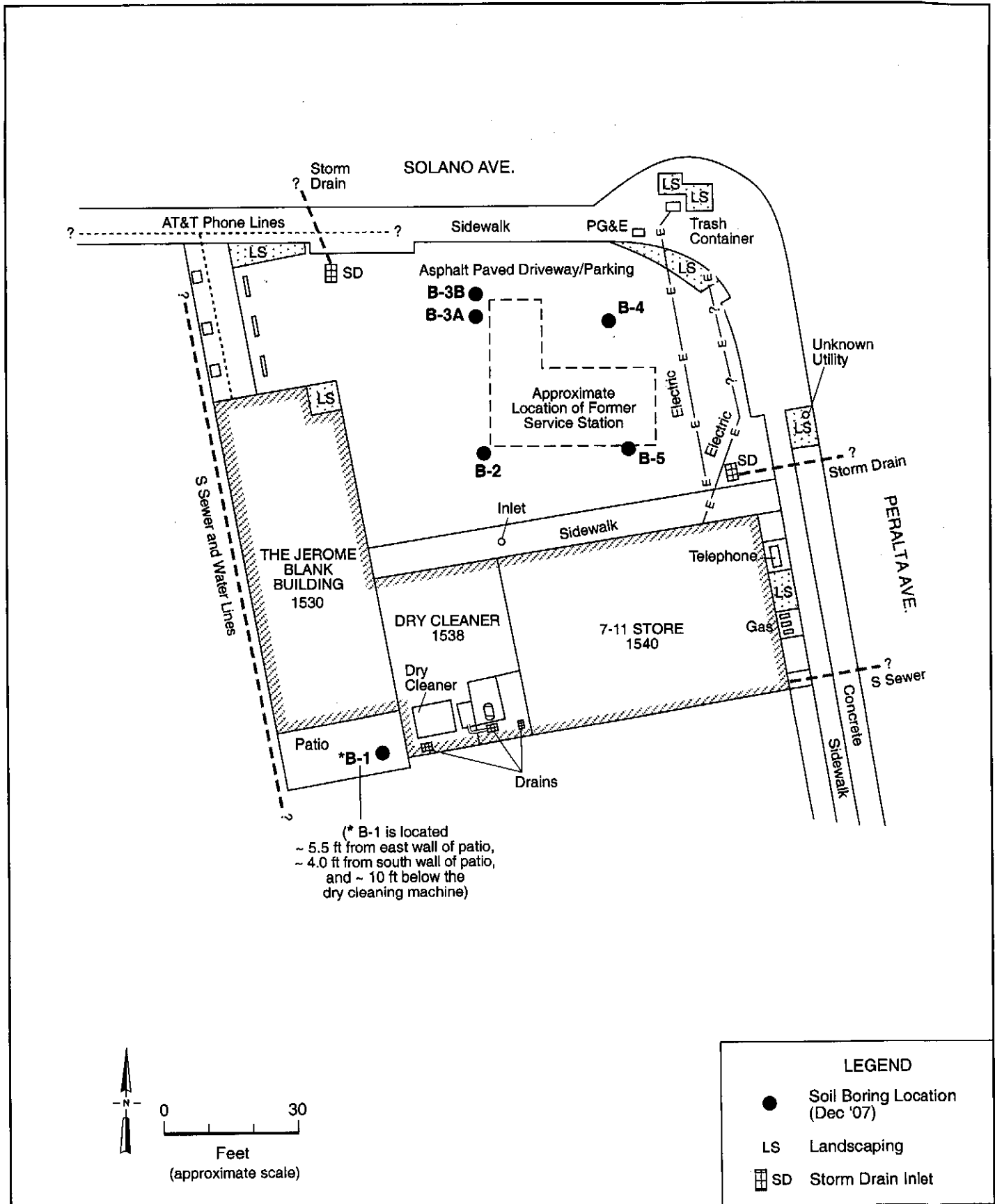
0 1000 FEET 0 500 1000 METERS  
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**EDD CLARK & ASSOCIATES, INC.**  
 ENVIRONMENTAL CONSULTANTS

**Site Location Map**  
 1530-1540 Solano Avenue  
 Albany, California

FIGURE  
 1



TRACE #465/RG12(Jan08)

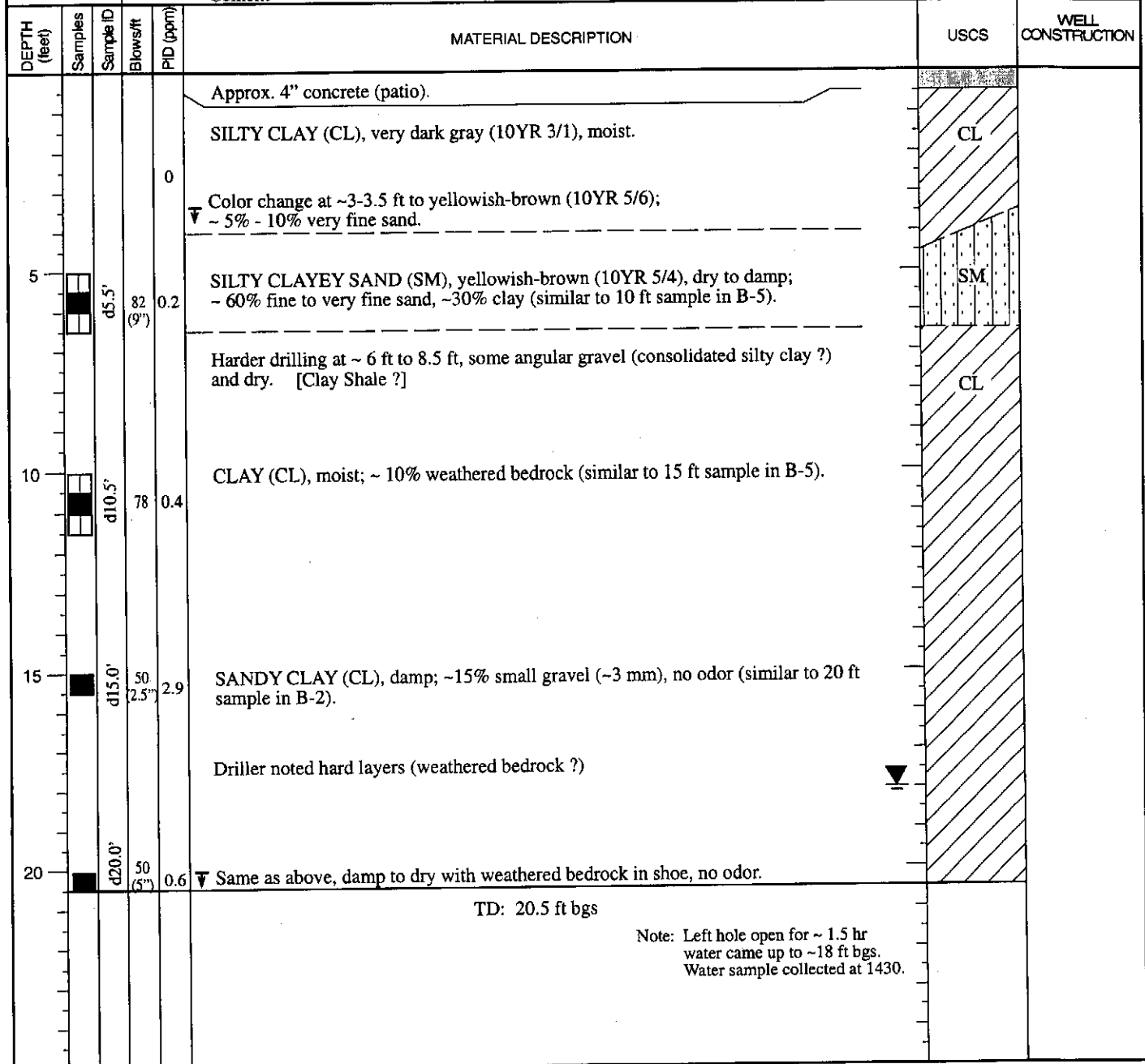
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**SITE PLAN**  
 Blank Property  
 1530 - 1540 Solano Avenue  
 Albany, California

FIGURE  
 2

JOB NUMBER	0585,002.07	REVIEWED BY	EC&A, E.J. VandenBosch	DATE	October 2007	REVISED	January 2008
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BORING LOCATION		1530-1540 Solano Ave., Albany, CA (Patio, ~ 10' below dry cleaning machine)		ELEVATION AND DATUM		Ground Surface		BORING NO.		B-1	
DRILLING AGENCY		Clear Heart Drilling, Inc.		DRILLER		Chris		DATE STARTED		13 Dec 07	
DRILLING EQUIPMENT		Portable		DATE FINISHED		13 Dec 07		COMPLETION WELL DEPTH		20.5 ft	
DRILLING METHOD		Solid Flight Auger		BORING DIA.		4 inches		NO. OF SAMPLES		4 Soil, 1 Grab Groundwater	
SIZE AND TYPE OF CASING		—		FROM		— TO —		WATER LEVEL		FIRST — MEASURED / SAMPLED ~ 18 ft	
TYPE OF PERFORATION		—		FROM		— TO —		CORE BARREL		2.0 inch $\phi$ LENGTH 18 inches	
SIZE AND TYPE OF PACK		—		FROM		— TO —		LOGGED BY:		EJVB CHECKED BY: RWE	
TYPE OF SEAL		NO. 1 Cement Grout		FROM		5.0 ft TO 20.5 ft		COMMENTS Soil samples field screened with Photo-ionization Detector (PID), results in parts per million (ppm).			
		NO. 2 Bentonite Chips Cement		FROM		0.5 ft TO 5.0 ft 0.0 ft TO 0.5 ft					



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ENVIRONMENTAL CONSULTANTS

LOG OF SOIL BORING B-1  
Blank Property  
1530 - 1540 Solano Avenue  
Albany, California

FIGURE  
3

JOB NUMBER	0585,002.07	REVIEWED BY	EC&A, E.J. VandenBosch	DATE	December 2007	REVISED		SHEET NO.	1 of 1
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TRACE #456/RG/12-Jan08)

BORING LOCATION		1530-1540 Solano Ave., Albany, CA (~31' E of J. Blank bldg, SW corner former service station)		ELEVATION AND DATUM		Ground Surface		BORING NO.		B-2	
DRILLING AGENCY		Clear Heart Drilling, Inc.		DRILLER		Chris		DATE STARTED		12 Dec 07	
DRILLING EQUIPMENT		DR-10K		COMPLETION WELL DEPTH		20.5 ft		SAMPLER		Split Spoon	
DRILLING METHOD		Solid Flight Auger		BORING DIA.		4 inches		NO. OF SAMPLES		4 Soil, 1 Grab Groundwater	
SIZE AND TYPE OF CASING		—		FROM — TO —		WATER LEVEL		FIRST ~20 ft bgs		MEASURED / SAMPLED 16 ft	
TYPE OF PERFORATION		—		FROM — TO —		CORE BARREL		2.0 inch $\phi$		LENGTH 18 inches	
SIZE AND TYPE OF PACK		—		FROM — TO —		LOGGED BY:		EJVB		CHECKED BY: RWE	
TYPE OF SEAL		NO. 1 Cement Grout		FROM 2.0 ft TO 20.5 ft		COMMENTS		Soil samples field screened with Photo-ionization Detector (PID), results in parts per million (ppm).			
		NO. 2 Bentonite Chips Asphalt Patch		FROM 1.0 ft TO 2.0 ft 0.0 ft TO 1.0 ft							

DEPTH (feet)	Samples	Sample ID	Blows/ft	PID (ppm)	MATERIAL DESCRIPTION	USCS	WELL CONSTRUCTION
0					Approx. 5" asphalt underlain by ~ 1.5 ft pea gravel and silt fill.		
5		d6.0'	21	0	CLAY (CL), $\leq 10\%$ fine to very fine sand, moist.	CL	
					SILTY CLAY (CL), very dark grayish-brown (2.5Y 3/2), moist; $\leq 5\%$ fine to medium sand, no odor.		
					▼ Color change to light olive brown (2.5Y 5/4), and stiffer.		
10		d10.0'	60 (6')	0	CLAY (CL), light olive brown (2.5Y 5/4), dry to barely damp; rock fragments (consolidated clay ?), very hard; no odor. [Clay Shale ?]		
15		d15.0'	60 (6')	0.4	SILTY CLAY (CL), some oxidation, dry; 1-2 mm rock fragments - very hard semi-consolidated clay at 15.5 ft [weathered bedrock ?], no odor.		
20		d20.0'	80 (5.5')	0.4	SILTY CLAY (CL), dry to barely moist at 19.5 ft, with ~15% very fine to very coarse sand (up to 3 mm). Sampler wet on outside, free water at ~ 20 ft (~1 to 2" wet to saturated silty clay on top of bedrock). Bedrock at 20.5 ft (weathered)		
					TD: 20.5 ft bgs		
					Note: Water level up to ~ 16 ft bgs after 3-1/2 hrs. Sample collected at 1340.		

TRACE #466RG/12 Jan 08

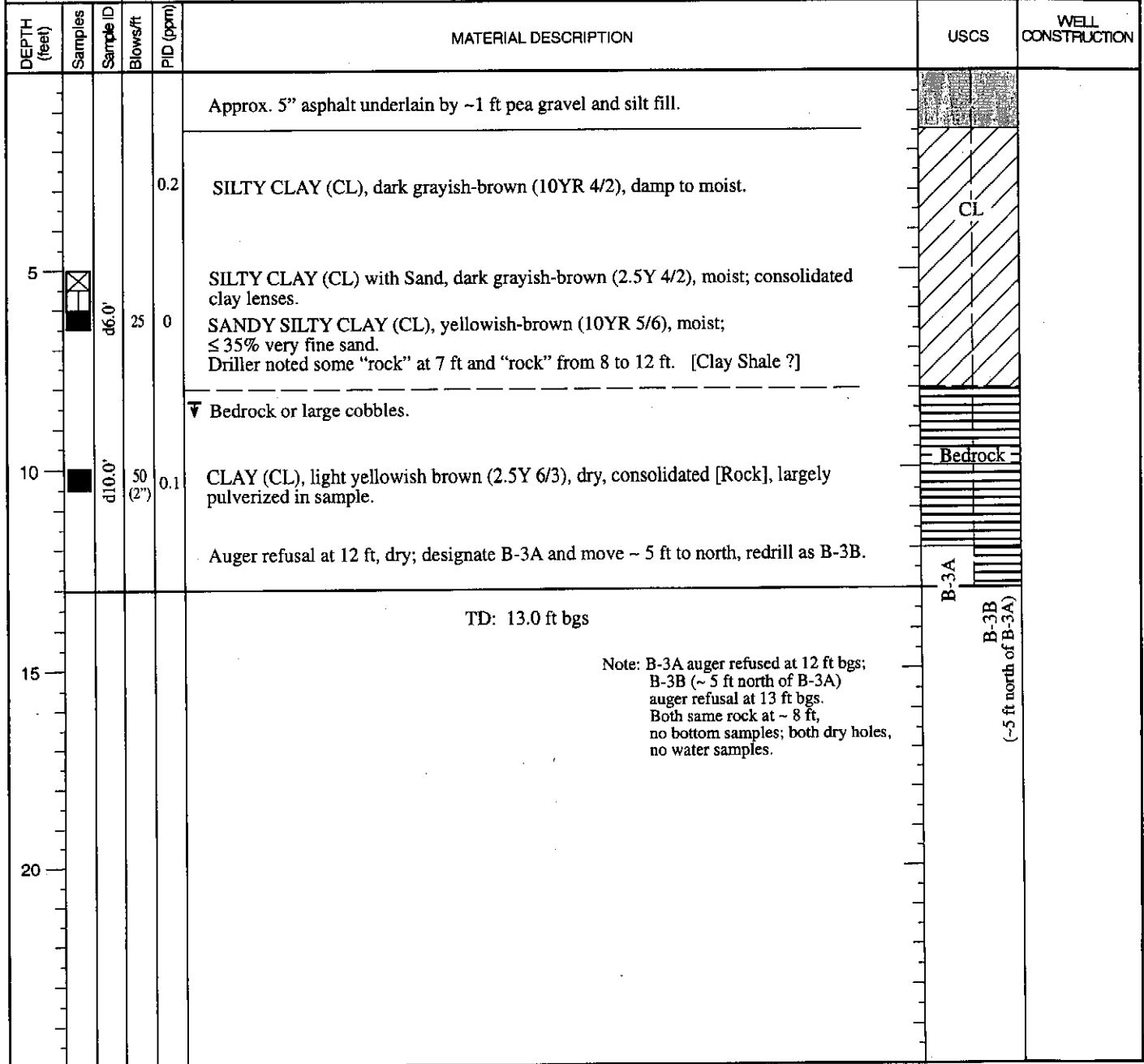
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ENVIRONMENTAL CONSULTANTS

**LOG OF SOIL BORING B-2**  
Blank Property  
1530 - 1540 Solano Avenue  
Albany, California

FIGURE  
4

JOB NUMBER	0585,002.07	REVIEWED BY	EC&A, E.J. VandenBosch	DATE	December 2007	REVISED		SHEET NO.	1 of 1
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BORING LOCATION		1530-1540 Solano Ave., Albany, CA (~ 17' from sidewalk, NW corner of former station, 3B ~ 5' N of 3A)		ELEVATION AND DATUM		Ground Surface		BORING NO.		B-3A/B	
DRILLING AGENCY		Clear Heart Drilling, Inc.		DRILLER		Chris		DATE STARTED		12 Dec 07	
DRILLING EQUIPMENT		DR-10K		DATE FINISHED		12 Dec 07		SAMPLER		Split Spoon	
DRILLING METHOD		Solid Flight Auger		BORING DIA.		4 inches		COMPLETION WELL DEPTH		12.0/13.0 ft	
NO. OF SAMPLES		2 Soil, no Grab Groundwater (dry)		WATER LEVEL		FIRST		MEASURED / SAMPLED		—	
TYPE OF PERFORATION		—		FROM		— TO —		CORE BARREL		2.0 inch φ	
LENGTH		18 inches		LOGGED BY:		EJVB		CHECKED BY:		RWE	
TYPE OF SEAL		NO. 1 Cement Grout		FROM		6.0 ft TO 12.0 ft		COMMENTS		Soil samples field screened with Photo-ionization Detector (PID), results in parts per million (ppm). Dry holes—no water sample.	
NO. 2 Bentonite Chips Asphalt Patch		FROM		1.0 ft TO 6.0 ft		0.0 ft TO 1.0 ft					



**EDD CLARK & ASSOCIATES, INC.**  
ENVIRONMENTAL CONSULTANTS

**LOG OF SOIL BORING B-3A/B**

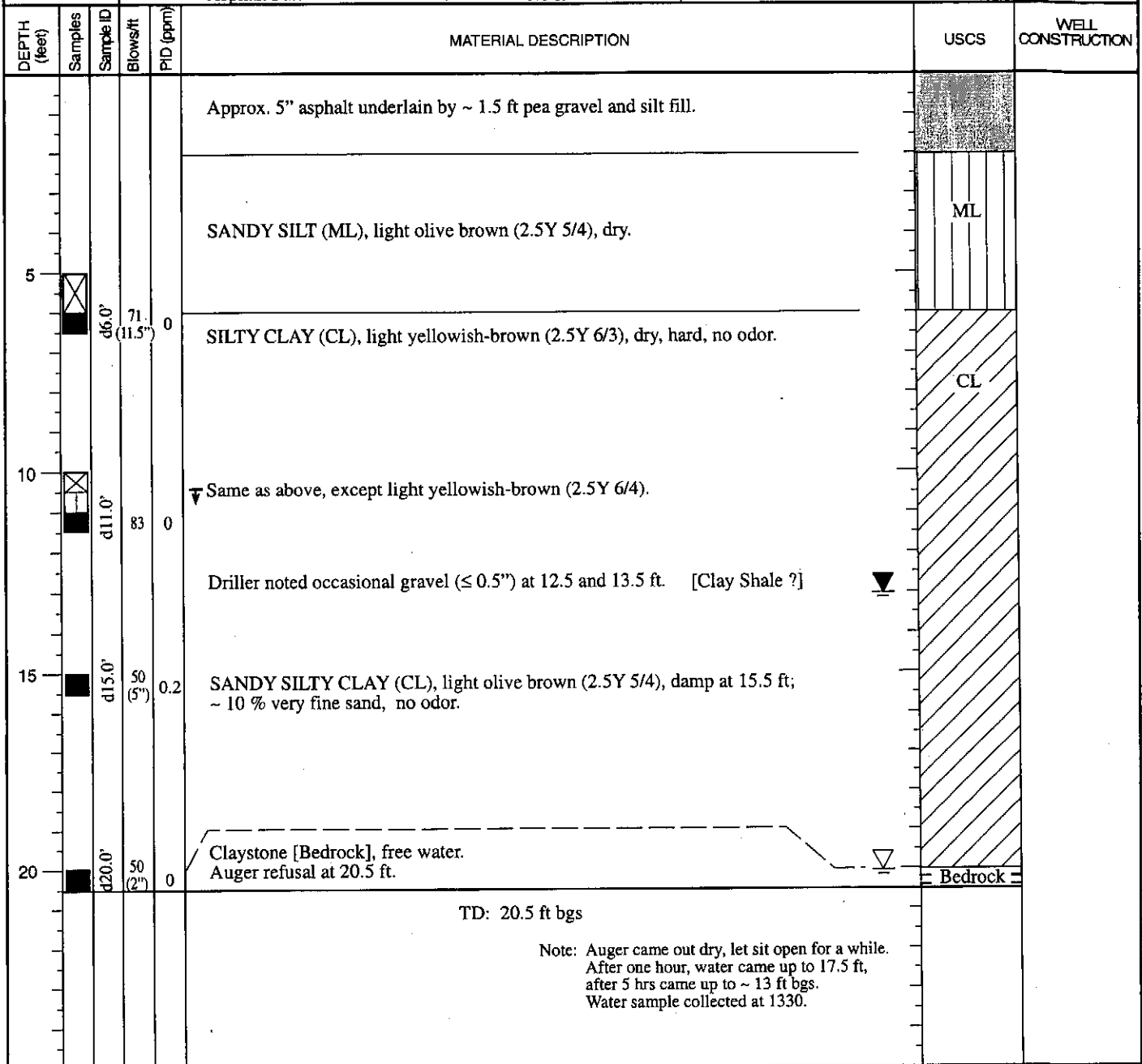
Blank Property  
1530 - 1540 Solano Avenue  
Albany, California

FIGURE  
**5**

JOB NUMBER	0585,002.07	REVIEWED BY	EC&A, E.J. VandenBosch	DATE	December 2007	REVISED		SHEET NO.	1 of 1
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TRACE #466/RG/12Jan08

BORING LOCATION		1530-1540 Solano Ave., Albany, CA (~ 17' from N sidewalk ~ 24' from E sidewalk)		ELEVATION AND DATUM		Ground Surface		BORING NO.		B-4	
DRILLING AGENCY		Clear Heart Drilling, Inc.		DRILLER		Chris		DATE STARTED		12 Dec 07	
DRILLING EQUIPMENT		DR-10K		COMPLETION WELL DEPTH		20.5 ft		SAMPLER		Split Spoon	
DRILLING METHOD		Solid Flight Auger		BORING DIA.		4 inches		NO. OF SAMPLES		4 Soil, 1 Grab Groundwater	
SIZE AND TYPE OF CASING		—		FROM — TO —		WATER LEVEL		FIRST ~ 20 ft bgs		MEASURED / SAMPLED ~ 13 ft	
TYPE OF PERFORATION		—		FROM — TO —		CORE BARREL		2.0 inch $\phi$		LENGTH 18 inches	
SIZE AND TYPE OF PACK		—		FROM — TO —		LOGGED BY:		EJVB		CHECKED BY: RWE	
TYPE OF SEAL		NO. 1 Cement Grout		FROM 2.0 ft TO 20.5 ft		COMMENTS		Soil samples field screened with Photo-ionization Detector (PID), results in parts per million (ppm).			
		NO. 2 Bentonite Chips Asphalt Patch		FROM 1.0 ft TO 2.0 ft 0.0 ft TO 1.0 ft							



TRACE #468/RG/12.Jan08

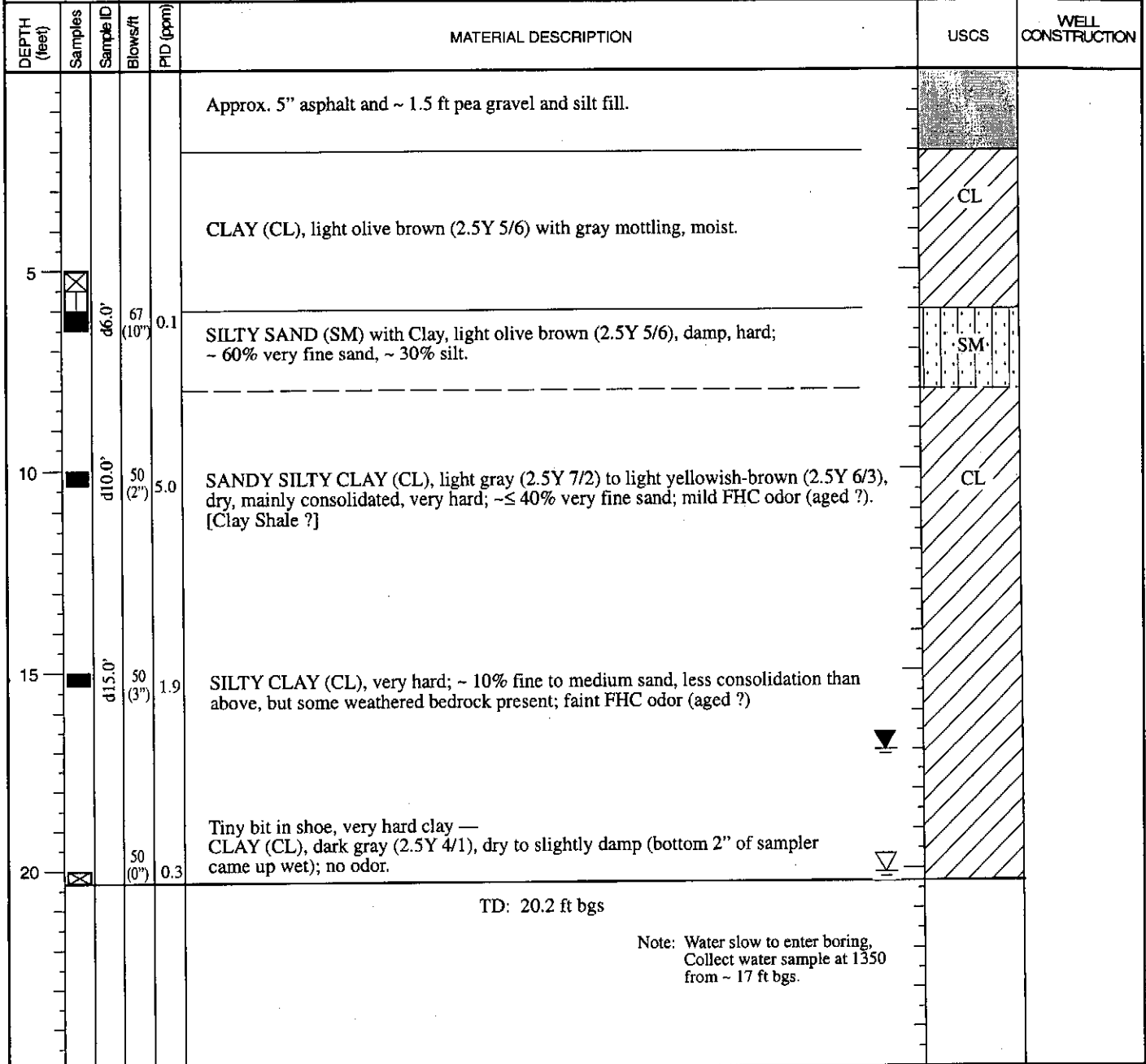
**EDD CLARK & ASSOCIATES, INC.**  
ENVIRONMENTAL CONSULTANTS

**LOG OF SOIL BORING B-4**  
Blank Property  
1530 - 1540 Solano Avenue  
Albany, California

FIGURE  
**6**

JOB NUMBER	0585,002.07	REVIEWED BY	EC&A, E.J. VandenBosch	DATE	December 2007	REVISED		SHEET NO.	1 of 1
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BORING LOCATION		1530-1540 Solano Ave., Albany, CA (~ 32' W of sidewalk, ~ 32' E of B-2)		ELEVATION AND DATUM		Ground Surface		BORING NO.		B-5	
DRILLING AGENCY		Clear Heart Drilling, Inc.		DRILLER		Chris		DATE STARTED		12 Dec 07	
DRILLING EQUIPMENT		DR-10K		COMPLETION WELL DEPTH		20.2 ft		SAMPLER		Split Spoon	
DRILLING METHOD		Solid Flight Auger		BORING DIA.		4 inches		NO. OF SAMPLES		3 Soil, 1 Grab Groundwater	
SIZE AND TYPE OF CASING		—		FROM — TO —		WATER LEVEL		FIRST ~ 20 ft bgs		MEASURED / SAMPLED ~ 17 ft	
TYPE OF PERFORATION		—		FROM — TO —		CORE BARREL		2.0 inch $\phi$		LENGTH 18 inches	
SIZE AND TYPE OF PACK		—		FROM — TO —		LOGGED BY:		EJVB		CHECKED BY: RWE	
TYPE OF SEAL		NO. 1 Cement Grout		FROM 6.0 ft TO 20.2 ft		COMMENTS		Soil samples field screened with Photo-Ionization Detector (PID), results in parts per million (ppm).			
		NO. 2 Bentonite Chips Asphalt Patch		FROM 1.0 ft TO 6.0 ft 0.0 ft 1.0 ft							



**EDD CLARK & ASSOCIATES, INC.**  
ENVIRONMENTAL CONSULTANTS

**LOG OF SOIL BORING B-5**  
Blank Property  
1530 - 1540 Solano Avenue  
Albany, California

FIGURE  
7

JOB NUMBER	0585,002.07	REVIEWED BY	EC&A, E.J. VandenBosch	DATE	December 2007	REVISED		SHEET NO.	1 of 1
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TRACE #466/RG/12.Jan08

## UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS					TYPICAL NAMES
<b>COARSE-GRAINED SOILS</b> MORE THAN HALF IS COARSER THAN NO. 200 SIEVE	<b>GRAVELS</b> MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
			GP		POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
		GRAVELS WITH OVER 15% FINES	GM		SILTY GRAVELS, SILTY GRAVELS WITH SAND
			GC		CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND
	<b>SANDS</b> MORE THAN HALF COARSE FRACTION IS LESS THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LITTLE OR NO FINES	SW		WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
			SP		POORLY GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
		SANDS WITH OVER 15% FINES	SM		SILTY SANDS WITH OR WITHOUT GRAVEL
			SC		CLAYEY SANDS WITH OR WITHOUT GRAVEL
<b>FINE-GRAINED SOILS</b> MORE THAN HALF IS FINER THAN NO. 200 SIEVE	<b>SILTS AND CLAYS</b> LIQUID LIMIT 50% OR LESS	ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SANDS AND GRAVELS	
		CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS	
		OL		ORGANIC SILTS OR CLAYS OF LOW PLASTICITY	
	<b>SILTS AND CLAYS</b> LIQUID LIMIT GREATER THAN 50%	MH		INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS, FINE SANDY OR SILTY SOILS, ELASTIC SILTS	
		CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
		OH		ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY	
<b>HIGHLY ORGANIC SOILS</b>		PT		PEAT AND OTHER HIGHLY ORGANIC SOILS	

- No Soil Sample Attempted
- Sample Observed but Not Retained
- No Recovery in Sampler
- Sample Submitted for Laboratory Analysis -- Sample Depth is Bottom of Sample
- [ 2 ] • Blows/Foot: Blows Required to Drive Sampler One Foot Using Hammer Weight of 140 Pounds Falling 30 inches

- 2.5 YR 6/2 • Soil Color according to Munsell Soil Color Charts (2000 Edition)
- First Encountered Saturated Soil
- Measured Ground Water Level
- Estimated Boundary Between Lithologic Units
- Estimated Gradational Boundary Between Lithologic Units

(TRACE #GEN/RG/21Nov03)

**EDD CLARK & ASSOCIATES, INC.**  
 ENVIRONMENTAL CONSULTANTS

**USCS LOG SYMBOLS**  
 Blank Property  
 1530-1540 Solano Avenue  
 Albany, California

FIGURE

8

JOB NUMBER	0585,002.07	REVIEWED BY	EJVB	DATE	January 2008	REVISED	REVISED
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**Table 1. Analytical Results - Soil Samples from Borings  
1530-1540 Solano Avenue, Albany, California**

Sample ID/Depth <i>ft bgs</i>	Date Sampled	TPHg <i>mg/kg</i>	TPHd <i>mg/kg</i>	TPHmo <i>mg/kg</i>	MTBE <i>mg/kg</i>	Benzene <i>mg/kg</i>	Toluene <i>mg/kg</i>	Ethyl- benzene <i>mg/kg</i>	Xylenes <i>mg/kg</i>	PCE <i>mg/kg</i>	Other HVOCs <i>mg/kg</i>
B-1d5.5	12/13/07	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.005	ND<0.01 to <0.005
B-1d10.5	12/13/07	NA	NA	NA	NA	NA	NA	NA	NA	0.16	ND<0.01 to <0.005
B-1d15.0	12/13/07	NA	NA	NA	NA	NA	NA	NA	NA	0.43	ND<0.025 to ND<0.050
B-1d20.0	12/13/07	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.005	ND<0.01 to <0.005
B-2d10.0	12/12/07	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA	NA
B-2d15.0	12/12/07	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	0.011	ND<0.005	0.0065	NA	NA
B-2d20.0	12/12/07	1.3 <sup>a</sup>	ND<1.0	ND<5.0	ND<0.05	0.0058	0.019	ND<0.005	0.016	NA	NA
B-3Ad6.0	12/12/07	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA	NA
B-3Ad10.0	12/12/07	ND<1.0	1.9 <sup>b</sup>	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA	NA
B-4d11.0	12/12/07	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA	NA
B-4d15.0	12/12/07	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA	NA
B-4d20.0	12/12/07	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA	NA
B-5d6.0	12/12/07	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA	NA
B-5d10.0	12/12/07	2.6 <sup>g</sup>	6.8 <sup>g,k</sup>	9.1	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA	NA
B-5d15.0	12/12/07	2.3 <sup>g</sup>	5.9 <sup>k</sup>	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA	NA
DR-1-S *	12/13/07	ND<1.0	2.0 <sup>g,b,f</sup>	7.0	ND<0.05	ND<0.005	0.017	ND<0.005	0.0099	0.030	ND<0.01 to <0.005

Notes

- TPHg: Total petroleum hydrocarbons as gasoline
- TPHd: Total petroleum hydrocarbons as diesel
- TPHmo: Total petroleum hydrocarbons as motor oil
- MTBE: Methyl tert-butyl ether; analyzed by Analytical Method SW8021B
- PCE: Tetrachloroethene
- HVOCs: Halogenated volatile organics

Notes, continued

ft bgs: Feet below ground surface  
mg/kg: Milligrams per kilogram  
ND: Not detected above the reporting limit  
NA: Not analyzed  
a: Unmodified or weakly modified gasoline is significant  
b: Diesel range compounds are significant; no recognizable pattern  
g: Strongly aged gasoline or diesel range compounds are significant  
G: Oil range compounds are significant (Cooking oil?)  
f: One to a few isolated peaks present  
k: Kerosene/kerosene range  
\*: Composite drum sample, also analyzed for total lead; result was 14 mg/kg

**Table 2. Analytical Results - Grab-groundwater Samples from Borings  
1530-1540 Solano Avenue, Albany, California**

Sample ID	Date Sampled	TPHg µg/l	TPHd µg/l	TPHmo µg/l	MTBE µg/l	Benzene µg/l	Toluene µg/l	Ethyl- benzene µg/l	Xylenes µg/l	PCE µg/l	Other HVOCs µg/l
B-1W	12/13/07	NA	NA	NA	NA	NA	NA	NA	NA	2.9	ND<0.5 to <1.0
B-2W	12/12/07	ND<50 <sup>i</sup>	ND<50 <sup>i</sup>	ND<250	ND<5.0	0.54	0.67	ND<0.5	ND<0.5	NA	NA
B-4W	12/12/07	ND<50 <sup>i</sup>	ND<50 <sup>i</sup>	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-5W	12/12/07	ND<50 <sup>i</sup>	200 <sup>k,b,i</sup>	ND<250	ND<5.0	0.59	0.52	ND<0.5	ND<0.5	NA	NA
DR-1-W *	12/13/07	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0 to <2.0

TPHg: Total petroleum hydrocarbons as gasoline  
 TPHd: Total petroleum hydrocarbons as diesel  
 TPHmo: Total petroleum hydrocarbons as motor oil  
 MTBE: Methyl tert-butyl ether; analyzed by Analytical Method SW8021B  
 PCE: Tetrachloroethene  
 HVOCs: Halogenated volatile organics  
 µg/l: Micrograms per liter  
 ND: Not detected above the reporting limit  
 NA: Not analyzed  
 b: Diesel range compounds are significant; no recognizable pattern  
 i: Liquid sample that contains greater than ~1 vol. % sediment  
 k: Kerosene/kerosene range  
 \*: Drum sample

# **Appendix A**

## **Boring Permit**

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)870-8633 Fax:(510)782-1939

Application Approved on: 11/05/2007 By Jamesy

Permit Numbers: W2007-1132  
Permits Valid from 12/10/2007 to 12/13/2007

Application Id: 1194043069717  
Site Location: 1538-1540 Solano Avenue, Albany CA94706  
Project Start Date: 12/10/2007

City of Project Site: Albany

Completion Date: 12/13/2007

Applicant: Edd Clark & Associates Inc. - Edd Clark  
PO Box 3039, Rohnert Park, CA 94927  
Property Owner: Blank Family Trust c/o Muriel Blank  
1164 Solano Ave #406, Albany, CA 94706  
Client: \*\* same as Property Owner \*\*

Phone: 707-792-9500

Phone: -

	Total Due:	\$200.00
Receipt Number: WR2007-0494	Total Amount Paid:	\$200.00
Payer Name : Edd Clark & Associates	Paid By: CHECK	PAID IN FULL

**Works Requesting Permits:**

Borehole(s) for Investigation-Geotechnical Study/CPT's - 5 Boreholes  
Driller: Clearheart Drilling - Lic #: 780357 - Method: auger

Work Total: \$200.00

**Specifications**

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-1132	11/05/2007	03/09/2008	5	4.00 in.	25.00 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.
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, property damage, personal injury and wrongful death.
4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org 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.

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

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. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

8. 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.

---

# **Appendix B**

## **Analytical Laboratory Reports**

**McC Campbell Analytical, Inc.**

"When Quality Counts"

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

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0585, 002; 1530- 1540 Solano Ave.	Date Sampled: 12/12/07
		Date Received: 12/13/07
	Client Contact: Etta Jon Vanden Bosch	Date Reported: 12/20/07
	Client P.O.:	Date Completed: 12/20/07

**WorkOrder: 0712431**

December 20, 2007

Dear Etta:

Enclosed within are:

- 1) The results of the 14 analyzed samples from your project: #0585, 002; 1530- 1540 Solano Ave.,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.





# McC Campbell Analytical, Inc.

"When Quality Counts"

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

Edd Clark & Associates, Inc.  
320 Professional Center Ste. 215  
Rohnert Park, CA 94928

Client Project ID: #0585, 002; 1530- 1540 Solano Ave.

Date Sampled: 12/12/07

Date Received: 12/13/07

Client Contact: Etta Jon Vanden Bosch

Date Extracted: 12/13/07-12/18/07

Client P.O.:

Date Analyzed 12/14/07-12/18/07

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0712431

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
002A	B-2d 10.0	S	ND	ND	ND	ND	ND	ND	1	89
003A	B-2d 15.0	S	ND	ND	ND	0.011	ND	0.0065	1	91
004A	B-2d 20.0	S	1.3,a	ND	0.0058	0.019	ND	0.016	1	96
005A	B-2 W	W	ND,i	ND	0.54	0.67	ND	ND	1	104
006A	B-3Ad 6.0	S	ND	ND	ND	ND	ND	ND	1	89
007A	B-3Ad 10.0	S	ND	ND	ND	ND	ND	ND	1	91
009A	B-4d 11.0	S	ND	ND	ND	ND	ND	ND	1	90
010A	B-4d 15.0	S	ND	ND	ND	ND	ND	ND	1	98
011A	B-4d 20.0	S	ND	ND	ND	ND	ND	ND	1	71
012A	B-4W	W	ND,i	ND	ND	ND	ND	ND	1	104
013A	B-5d 6.0	S	ND	ND	ND	ND	ND	ND	1	89
014A	B-5d 10.0	S	2.6,g	ND	ND	ND	ND	ND	1	93
015A	B-5d 15.0	S	2.3,g	ND	ND	ND	ND	ND	1	93
016A	B-5W	W	ND,i	ND	0.59	0.52	ND	ND	1	86

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.



# McC Campbell Analytical, Inc.

"When Quality Counts"

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

Edd Clark & Associates, Inc.  320 Professional Center Ste. 215  Rohnert Park, CA 94928	Client Project ID: #0585, 002; 1530-1540 Solano Ave.	Date Sampled: 12/12/07
	Client Contact: Etta Jon Vanden Bosch	Date Received: 12/13/07
	Client P.O.:	Date Analyzed: 12/16/07-12/17/07
		Date Extracted: 12/13/07

### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SW3510C/SW3550C

Analytical methods: SW8015C

Work Order: 0712431

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0712431-002A	B-2d 10.0	S	ND	ND	1	103
0712431-003A	B-2d 15.0	S	ND	ND	1	104
0712431-004A	B-2d 20.0	S	ND	ND	1	103
0712431-005B	B-2 W	W	ND,i	ND	1	94
0712431-006A	B-3Ad 6.0	S	ND	ND	1	93
0712431-007A	B-3Ad 10.0	S	1.9,b	ND	1	103
0712431-009A	B-4d 11.0	S	ND	ND	1	119
0712431-010A	B-4d 15.0	S	ND	ND	1	108
0712431-011A	B-4d 20.0	S	ND	ND	1	117
0712431-012B	B-4W	W	ND,i	ND	1	80
0712431-013A	B-5d 6.0	S	ND	ND	1	81
0712431-014A	B-5d 10.0	S	6.8,g,k	9.1	1	97
0712431-015A	B-5d 15.0	S	5.9,k	ND	1	83
0712431-016B	B-5W	W	200,k,b,i	ND	1	85

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	1.0	5.0	mg/Kg

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant (cooking oil?); h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil range (?); no recognizable pattern; m) fuel oil; n) stoddard solvent/mineral spirits; p) see attached narrative.



### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712431

Analyte	EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 32538			Spiked Sample ID: 0712402-002A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>‡</sup>	ND	0.60	107	112	4.31	114	117	2.36	70 - 130	30	70 - 130	30
MTBE	ND	0.10	112	117	4.03	104	121	15.5	70 - 130	30	70 - 130	30
Benzene	ND	0.10	99.6	101	1.63	102	111	8.09	70 - 130	30	70 - 130	30
Toluene	ND	0.10	89.7	91.6	2.10	92.9	98.9	6.20	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	101	105	3.55	104	107	3.04	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	96.3	100	3.74	103	103	0	70 - 130	30	70 - 130	30
%SS:	86	0.10	103	101	1.17	89	95	6.14	70 - 130	30	70 - 130	30

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

#### BATCH 32538 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712431-002A	12/12/07 9:50 AM	12/13/07	12/14/07 11:55 PM	0712431-003A	12/12/07 10:00 AM	12/13/07	12/15/07 2:27 AM
0712431-004A	12/12/07 10:15 AM	12/13/07	12/15/07 2:58 AM	0712431-006A	12/12/07 8:30 AM	12/13/07	12/18/07 5:58 PM
0712431-007A	12/12/07 8:40 AM	12/13/07	12/15/07 3:28 AM	0712431-009A	12/12/07 7:40 AM	12/13/07	12/14/07 5:46 PM
0712431-010A	12/12/07 7:50 AM	12/13/07	12/18/07 6:29 PM	0712431-011A	12/12/07 8:00 AM	12/13/07	12/15/07 5:30 AM
0712431-013A	12/12/07 11:00 AM	12/13/07	12/14/07 4:13 PM	0712431-014A	12/12/07 11:15 AM	12/13/07	12/15/07 6:00 AM
0712431-015A	12/12/07 12:10 PM	12/13/07	12/14/07 3:11 PM				

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

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.



**QC SUMMARY REPORT FOR SW8021B/8015Cm**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0712431

Analyte	EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 32521			Spiked Sample ID: 0712404-003A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>£</sup>	ND	60	102	98.5	3.31	92.1	92	0.140	70 - 130	30	70 - 130	30
MTBE	ND	10	112	105	6.21	102	101	0.586	70 - 130	30	70 - 130	30
Benzene	ND	10	94	92.8	1.29	95.6	90.4	5.68	70 - 130	30	70 - 130	30
Toluene	ND	10	93.5	91.6	2.01	94.5	84.2	11.5	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	104	102	1.63	105	99.7	5.30	70 - 130	30	70 - 130	30
Xylenes	ND	30	103	100	3.28	103	100	3.28	70 - 130	30	70 - 130	30
%SS:	90	10	96	96	0	100	99	0.549	70 - 130	30	70 - 130	30

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

**BATCH 32521 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712431-005A	12/12/07 1:40 PM	12/16/07	12/16/07 9:09 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 £ TPH(btex) = sum of BTEX areas from the FID.  
 # cluttered chromatogram; sample peak coelutes with surrogate peak.



### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0712431

Analyte	EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 32532			Spiked Sample ID: 0712441-001C			
	Sample µg/L	Spiked µg/L	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)			
									MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>‡</sup>	ND	60	98.4	86.7	12.6	94	101	6.78	70 - 130	30	70 - 130	30
MTBE	ND	10	102	104	2.67	93	98.8	6.01	70 - 130	30	70 - 130	30
Benzene	ND	10	92	83.6	9.54	90.1	91.8	1.90	70 - 130	30	70 - 130	30
Toluene	ND	10	90.6	80.9	11.2	89.6	90.1	0.565	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	100	81.5	20.7	103	102	1.74	70 - 130	30	70 - 130	30
Xylenes	ND	30	96.7	96.7	0	100	100	0	70 - 130	30	70 - 130	30
%SS:	99	10	97	88	9.64	95	95	0	70 - 130	30	70 - 130	30

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

#### BATCH 32532 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712431-012A	12/12/07 11:00 AM	12/16/07	12/16/07 10:10 PM	0712431-016A	12/12/07 1:50 PM	12/16/07	12/16/07 10:40 PM

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

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.



### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712431

Analyte	EPA Method SW8015C		Extraction SW3550C			BatchID: 32514			Spiked Sample ID: 0712380-003A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	3800	20	NR	NR	NR	112	110	1.73	70 - 130	30	70 - 130	30
%SS:	109	50	116	120	2.93	118	117	1.17	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 32514 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712431-002A	12/12/07 9:50 AM	12/13/07	12/17/07 3:45 AM	0712431-003A	12/12/07 10:00 AM	12/13/07	12/17/07 4:55 AM
0712431-004A	12/12/07 10:15 AM	12/13/07	12/17/07 6:06 AM	0712431-006A	12/12/07 8:30 AM	12/13/07	12/17/07 4:07 PM
0712431-007A	12/12/07 8:40 AM	12/13/07	12/17/07 7:17 AM	0712431-009A	12/12/07 7:40 AM	12/13/07	12/17/07 11:50 AM
0712431-010A	12/12/07 7:50 AM	12/13/07	12/16/07 8:51 AM	0712431-011A	12/12/07 8:00 AM	12/13/07	12/17/07 12:58 PM
0712431-013A	12/12/07 11:00 AM	12/13/07	12/16/07 8:39 PM	0712431-014A	12/12/07 11:15 AM	12/13/07	12/17/07 10:23 PM
0712431-015A	12/12/07 12:10 PM	12/13/07	12/17/07 7:17 AM				

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

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

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

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

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



**QC SUMMARY REPORT FOR SW8015C**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0712431

Analyte	EPA Method SW8015C		Extraction SW3510C			BatchID: 32515			Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	N/A	1000	N/A	N/A	N/A	111	110	0.901	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	116	115	0.855	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

**BATCH 32515 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712431-005B	12/12/07 1:40 PM	12/13/07	12/17/07 2:55 PM	0712431-012B	12/12/07 11:00 AM	12/13/07	12/16/07 7:28 PM
0712431-016B	12/12/07 1:50 PM	12/13/07	12/17/07 6:06 AM				

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

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

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

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

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

0712431

**Chain of Custody Report**

P.O. Box 3039, Rohnert Park, CA 94927  
Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker:

Yes  No  Initials **EJVB**

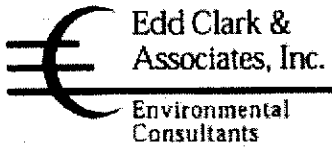
Samplers Signature: Edda Jon Vandenberg

P. 1 of 2

EC&A job # 0585 002							Facility Name & Location:			Analysis				Remarks
Global I.D. #							1530-1540 Solano Ave. Albany, CA			TPH <sub>g</sub> /BTEX MTBE (8015/8024) TPH <sub>d</sub> , TPH <sub>m</sub> (8015C)	ICE 1.34 GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB PRESERVATION	APPROPRIATE CONTAINERS PRESERVED IN LAB VPAS   O & G   METALS   OTHER		
Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items								
B-2	12/12/07	0945	B-2d6.0	discrete	S	1							← HOLD	
		0950	B-2d10.0			1	X	X					HOLD <del>ET</del>	
		1000	B-2d15.0			1	X	X						
		1015	B-2d20.0			1	X	X						
		1340	B-2W	grab	W	4/2	X	X						
B-3A		0830	B-3Ad6.0	discrete	S	1	X	X						
		0840	B-3Ad10.0		S	1	X	X						
B-4		0730	B-4d6.0			1							← HOLD	
		0740	B-4d11.0			1	X	X						
		0750	B-4d15.0			1	X	X						
Relinquished by:			Date:	Time:	Received by:			Relinquished by:			Date:	Time:	Received by:	
Edda Jon Vandenberg			12/13/07	1150							12/13/07	100	K. BURKE	
Relinquished by:			Date:	Time:	Received by:			Relinquished by:			Date:	Time:	Received by:	

+5





# Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927  
 Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker:

Yes  No  Initials EVUS

Samplers Signature: Edda Jan Vanden Bosch

P. 2 of 2

EC&A job # 0595,002							Facility Name & Location:				Analysis				Remarks
Global I.D. # _____							1530 - 1540 Salano Ave. Albany, CA								
Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items	TPH <sub>3</sub> / BTEX / MTBE (8015 / 8021B)	TPH <sub>4</sub> , TPH <sub>mo</sub> (8015C)							
B-4	12/17/07	0800	B-4d20.0	discrete	S	1	X	X							
↓		1330	B-4W	grab	W	6(1/2)	X	X							
B-5		1100	B-5d6.0	discrete	S	1	X	X							
↓		1115	B-5d10.0	↓	↓	1	X	X							
↓		1210	B-5d15.0	↓	↓	1	X	Y							
Y	↓	1350	B-5W	grab	W	4/2	X	Y							
Relinquished by:			Date:	Time:	Received by:			Relinquished by:			Date:	Time:	Received by:		
<u>Edda Jan Vanden Bosch</u>			12/13/07	1150							12/13/07	100			
Relinquished by:			Date:	Time:	Received by:			Relinquished by:			Date:	Time:	Received by:		

+5

+20

**McC Campbell Analytical, Inc.**

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

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0712431

ClientID: ECAR

EDF     Excel     Fax     Email     HardCopy     ThirdParty

Report to:

Etta Jon Vanden Bosch  
Edd Clark & Associates, Inc.  
320 Professional Center Ste. 215  
Rohnert Park, CA 94928

Email: corpmail@ecaenviron.com  
TEL: (707) 792-9500    FAX: (707) 792-9504  
ProjectNo: #0585, 002; 1530- 1540 Solano Ave.  
PO:

Bill to:

Accounts Payable  
Edd Clark & Associates, Inc.  
320 Professional Center Ste.215  
Rohnert Park, CA 94928

Requested TAT: 5 days

Date Received: 12/13/2007  
Date Printed: 12/14/2007

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0712431-002	B-2d 10.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-003	B-2d 15.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-004	B-2d 20.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-005	B-2 W	Water	12/12/2007	<input type="checkbox"/>		A		B								
0712431-006	B-3Ad 6.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-007	B-3Ad 10.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-009	B-4d 11.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-010	B-4d 15.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-011	B-4d 20.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-012	B-4W	Water	12/12/2007	<input type="checkbox"/>		A		B								
0712431-013	B-5d 6.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-014	B-5d 10.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-015	B-5d 15.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-016	B-5W	Water	12/12/2007	<input type="checkbox"/>		A		B								

Test Legend:

1	G-MBTEX S	2	G-MBTEX W	3	TPH(DMO) S	4	TPH(DMO) W	5	
6		7		8		9		10	
11		12							

Prepared by: Rosa Venegas

Comments:

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



**Sample Receipt Checklist**

Client Name: **Edd Clark & Associates, Inc.** Date and Time Received: **12/13/2007 5:25:43 PM**  
Project Name: **#0585, 002; 1530- 1540 Solano Ave.** Checklist completed and reviewed by: **Rosa Venegas**  
WorkOrder N°: **0712431** Matrix Soil/Water Carrier: Rob Pringle (MAI Courier)

**Chain of Custody (COC) Information**

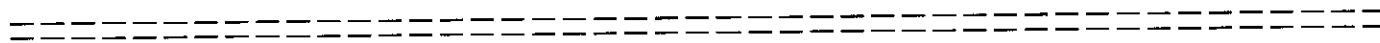
Chain of custody present? Yes  No   
Chain of custody signed when relinquished and received? Yes  No   
Chain of custody agrees with sample labels? Yes  No   
Sample IDs noted by Client on COC? Yes  No   
Date and Time of collection noted by Client on COC? Yes  No   
Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
Shipping container/cooler in good condition? Yes  No   
Samples in proper containers/bottles? Yes  No   
Sample containers intact? Yes  No   
Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
Container/Temp Blank temperature Cooler Temp: 3.4°C NA   
Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted   
Sample labels checked for correct preservation? Yes  No   
TTLC Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA



Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
Comments: \_\_\_\_\_

**McC Campbell Analytical, Inc.**

"When Quality Counts"

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

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0585, 002; 1530-1540 Solano Ave	Date Sampled: 12/13/07
		Date Received: 12/14/07
	Client Contact: Etta Jon Vanden Bosch	Date Reported: 12/21/07
	Client P.O.:	Date Completed: 12/21/07

**WorkOrder: 0712499**

December 21, 2007

Dear Etta:

Enclosed within are:

- 1) The results of the 7 analyzed samples from your project: **#0585, 002; 1530-1540 Solano Ave,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.



# McC Campbell Analytical, Inc.

"When Quality Counts"

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

Edd Clark & Associates, Inc.  320 Professional Center Ste. 215  Rohnert Park, CA 94928	Client Project ID: #0585, 002; 1530-1540 Solano Ave	Date Sampled: 12/13/07
	Client Contact: Etta Jon Vanden Bosch	Date Received: 12/14/07
	Client P.O.:	Date Extracted: 12/14/07
		Date Analyzed: 12/16/07-12/17/07

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0712499

Lab ID	0712499-001A	0712499-002A	0712499-003A	0712499-004A	Reporting Limit for DF =1	
Client ID	B-1d5.5	B-1d10.5	B-1d15.0	B-1d20.0	S	W
Matrix	S	S	S	S		
DF	1	1	5	1		

Compound	Concentration				mg/kg	µg/L
Bromodichloromethane	ND	ND	ND<0.025	ND	0.005	NA
Bromoform	ND	ND	ND<0.025	ND	0.005	NA
Bromomethane	ND	ND	ND<0.025	ND	0.005	NA
Carbon Tetrachloride	ND	ND	ND<0.025	ND	0.005	NA
Chlorobenzene	ND	ND	ND<0.025	ND	0.005	NA
Chloroethane	ND	ND	ND<0.025	ND	0.005	NA
2-Chloroethyl Vinyl Ether	ND	ND	ND<0.050	ND	0.01	NA
Chloroform	ND	ND	ND<0.025	ND	0.005	NA
Chloromethane	ND	ND	ND<0.025	ND	0.005	NA
Dibromochloromethane	ND	ND	ND<0.025	ND	0.005	NA
1,2-Dichlorobenzene	ND	ND	ND<0.025	ND	0.005	NA
1,3-Dichlorobenzene	ND	ND	ND<0.025	ND	0.005	NA
1,4-Dichlorobenzene	ND	ND	ND<0.025	ND	0.005	NA
Dichlorodifluoromethane	ND	ND	ND<0.025	ND	0.005	NA
1,1-Dichloroethane	ND	ND	ND<0.025	ND	0.005	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND<0.025	ND	0.005	NA
1,1-Dichloroethene	ND	ND	ND<0.025	ND	0.005	NA
cis-1,2-Dichloroethene	ND	ND	ND<0.025	ND	0.005	NA
trans-1,2-Dichloroethene	ND	ND	ND<0.025	ND	0.005	NA
1,2-Dichloropropane	ND	ND	ND<0.025	ND	0.005	NA
cis-1,3-Dichloropropene	ND	ND	ND<0.025	ND	0.005	NA
trans-1,3-Dichloropropene	ND	ND	ND<0.025	ND	0.005	NA
Methylene chloride	ND	ND	ND<0.025	ND	0.005	NA
1,1,2,2-Tetrachloroethane	ND	ND	ND<0.025	ND	0.005	NA
Tetrachloroethene	ND	0.16	0.43	ND	0.005	NA
1,1,1-Trichloroethane	ND	ND	ND<0.025	ND	0.005	NA
1,1,2-Trichloroethane	ND	ND	ND<0.025	ND	0.005	NA
Trichloroethene	ND	ND	ND<0.025	ND	0.005	NA
Trichlorofluoromethane	ND	ND	ND<0.025	ND	0.005	NA
Vinyl Chloride	ND	ND	ND<0.025	ND	0.005	NA

#### Surrogate Recoveries (%)

%SS1:	109	106	103	105	
%SS2:	100	100	99	101	
%SS3:	103	104	103	103	

#### Comments

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

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

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

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



# McC Campbell Analytical, Inc.

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Edd Clark & Associates, Inc.  320 Professional Center Ste. 215  Rohnert Park, CA 94928	Client Project ID: #0585, 002; 1530-1540 Solano Ave	Date Sampled: 12/13/07
	Client Contact: Etta Jon Vanden Bosch	Date Received: 12/14/07
	Client P.O.:	Date Extracted: 12/14/07
		Date Analyzed: 12/16/07-12/17/07

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0712499

Lab ID	0712499-006A				Reporting Limit for DF =1	
Client ID	DR-1-S				S	W
Matrix	S					
DF	1					

Compound	Concentration				mg/kg	µg/L
Bromodichloromethane	ND				0.005	NA
Bromoform	ND				0.005	NA
Bromomethane	ND				0.005	NA
Carbon Tetrachloride	ND				0.005	NA
Chlorobenzene	ND				0.005	NA
Chloroethane	ND				0.005	NA
2-Chloroethyl Vinyl Ether	ND				0.01	NA
Chloroform	ND				0.005	NA
Chloromethane	ND				0.005	NA
Dibromochloromethane	ND				0.005	NA
1,2-Dichlorobenzene	ND				0.005	NA
1,3-Dichlorobenzene	ND				0.005	NA
1,4-Dichlorobenzene	ND				0.005	NA
Dichlorodifluoromethane	ND				0.005	NA
1,1-Dichloroethane	ND				0.005	NA
1,2-Dichloroethane (1,2-DCA)	ND				0.005	NA
1,1-Dichloroethene	ND				0.005	NA
cis-1,2-Dichloroethene	ND				0.005	NA
trans-1,2-Dichloroethene	ND				0.005	NA
1,2-Dichloropropane	ND				0.005	NA
cis-1,3-Dichloropropene	ND				0.005	NA
trans-1,3-Dichloropropene	ND				0.005	NA
Methylene chloride	ND				0.005	NA
1,1,2,2-Tetrachloroethane	ND				0.005	NA
Tetrachloroethene	0.030				0.005	NA
1,1,1-Trichloroethane	ND				0.005	NA
1,1,2-Trichloroethane	ND				0.005	NA
Trichloroethene	ND				0.005	NA
Trichlorofluoromethane	ND				0.005	NA
Vinyl Chloride	ND				0.005	NA

### Surrogate Recoveries (%)

%SS1:	104			
%SS2:	102			
%SS3:	102			

### Comments

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

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

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

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



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Edd Clark & Associates, Inc.  
320 Professional Center Ste. 215  
Rohnert Park, CA 94928

Client Project ID: #0585, 002; 1530-1540  
Solano Ave  
Client Contact: Etta Jon Vanden Bosch  
Client P.O.:

Date Sampled: 12/13/07  
Date Received: 12/14/07  
Date Extracted: 12/17/07-12/21/07  
Date Analyzed: 12/17/07-12/21/07

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0712499

Lab ID	0712499-005A	0712499-007B			Reporting Limit for DF =1	
Client ID	B-1W	DR-1-W			S	W
Matrix	W	W				
DF	1	2				

Compound	Concentration			µg/kg	µg/L
Bromodichloromethane	ND	ND<1.0		NA	0.5
Bromoform	ND	ND<1.0		NA	0.5
Bromomethane	ND	ND<1.0		NA	0.5
Carbon Tetrachloride	ND	ND<1.0		NA	0.5
Chlorobenzene	ND	ND<1.0		NA	0.5
Chloroethane	ND	ND<1.0		NA	0.5
2-Chloroethyl Vinyl Ether	ND	ND<2.0		NA	1.0
Chloroform	ND	ND<1.0		NA	0.5
Chloromethane	ND	ND<1.0		NA	0.5
Dibromochloromethane	ND	ND<1.0		NA	0.5
1,2-Dichlorobenzene	ND	ND<1.0		NA	0.5
1,3-Dichlorobenzene	ND	ND<1.0		NA	0.5
1,4-Dichlorobenzene	ND	ND<1.0		NA	0.5
Dichlorodifluoromethane	ND	ND<1.0		NA	0.5
1,1-Dichloroethane	ND	ND<1.0		NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND<1.0		NA	0.5
1,1-Dichloroethene	ND	ND<1.0		NA	0.5
cis-1,2-Dichloroethene	ND	ND<1.0		NA	0.5
trans-1,2-Dichloroethene	ND	ND<1.0		NA	0.5
1,2-Dichloropropane	ND	ND<1.0		NA	0.5
cis-1,3-Dichloropropene	ND	ND<1.0		NA	0.5
trans-1,3-Dichloropropene	ND	ND<1.0		NA	0.5
Methylene chloride	ND	ND<1.0		NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND<1.0		NA	0.5
Tetrachloroethene	2.9	ND<1.0		NA	0.5
1,1,1-Trichloroethane	ND	ND<1.0		NA	0.5
1,1,2-Trichloroethane	ND	ND<1.0		NA	0.5
Trichloroethene	ND	ND<1.0		NA	0.5
Trichlorofluoromethane	ND	ND<1.0		NA	0.5
Vinyl Chloride	ND	ND<1.0		NA	0.5

### Surrogate Recoveries (%)

%SS1:	115	92		
%SS2:	97	98		
%SS3:	105	95		

### Comments

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

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

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

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











**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712499

EPA Method SW8260B	Extraction SW5030B			BatchID: 32529					Spiked Sample ID: 0712402-002A				
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
		mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	0.050	128	125	2.43	123	124	0.426	70 - 130	30	70 - 130	30	
1,2-Dichloroethane (1,2-DCA)	ND	0.050	94.6	91.3	3.58	86.8	93.2	7.08	70 - 130	30	70 - 130	30	
1,1-Dichloroethene	ND	0.050	109	103	5.68	112	118	5.54	70 - 130	30	70 - 130	30	
Trichloroethene	ND	0.050	100	96.9	3.54	99.4	104	4.89	70 - 130	30	70 - 130	30	
%SS1:	107	0.050	95	87	8.11	89	93	4.48	70 - 130	30	70 - 130	30	
%SS2:	103	0.050	89	88	1.77	79	81	2.01	70 - 130	30	70 - 130	30	
%SS3:	105	0.050	85	84	0.876	87	87	0	70 - 130	30	70 - 130	30	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

**BATCH 32529 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-001A	12/13/07 11:55 AM	12/14/07	12/16/07 2:28 PM	0712499-002A	12/13/07 12:10 PM	12/14/07	12/16/07 3:14 PM
0712499-003A	12/13/07 12:25 PM	12/14/07	12/17/07 10:05 PM	0712499-004A	12/13/07 12:50 PM	12/14/07	12/16/07 4:45 PM
0712499-006A	12/13/07 2:50 PM	12/14/07	12/16/07 5:30 PM				

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

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

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

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

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



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0712499

Analyte	Extraction SW5030B		BatchID: 32586						Spiked Sample ID: 0712499-007B			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND<1.0	10	126	125	0.432	129	126	1.82	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND<1.0	10	90.8	97.1	6.70	90.5	97.8	7.71	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND<1.0	10	93.7	104	10.5	95.9	94.8	1.21	70 - 130	30	70 - 130	30
Trichloroethene	ND<1.0	10	100	105	5.09	104	108	4.32	70 - 130	30	70 - 130	30
%SS1:	92	10	87	91	3.64	93	96	3.46	70 - 130	30	70 - 130	30
%SS2:	98	10	86	86	0	87	89	2.07	70 - 130	30	70 - 130	30
%SS3:	95	10	84	84	0	85	84	0.445	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 32586 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-005A	12/13/07 2:30 PM	12/17/07	12/17/07 10:50 PM	0712499-007B	12/13/07 3:00 PM	12/21/07	12/21/07 11:21 AM

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

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

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

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

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



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### QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712499

EPA Method 6010C		Extraction SW3050B					BatchID: 32507			Spiked Sample ID 0712366-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	9.6	50	86.2	90	3.54	10	93.9	91.8	2.34	75 - 125	20	80 - 120	20
%SS:	92	250	92	97	6.15	250	95	95	0	70 - 130	20	70 - 130	20

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

#### BATCH 32507 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-006A	12/13/07 2:50 PM	12/14/07	12/17/07 12:47 PM				

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

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

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

N/A = not applicable to this method.

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



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### QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712499

Analyte	Extraction SW3050B			BatchID: 32507			Spiked Sample ID: 0712366-003A					
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	Acceptance Criteria (%)				
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	9.6	10	86.2	90	3.54	93.9	91.8	2.34	75 - 125	20	80 - 120	20
%SS:	92	250	92	97	6.15	95	95	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 32507 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-006A	12/13/07 2:50 PM	12/14/07	12/17/07 12:47 PM				

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

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

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

N/A = not applicable to this method.

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



**QC SUMMARY REPORT FOR SW8021B/8015Cm**

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712499

Analyte	EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 32538			Spiked Sample ID: 0712402-002A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>f</sup>	ND	0.60	107	112	4.31	114	117	2.36	70 - 130	30	70 - 130	30
MTBE	ND	0.10	112	117	4.03	104	121	15.5	70 - 130	30	70 - 130	30
Benzene	ND	0.10	99.6	101	1.63	102	111	8.09	70 - 130	30	70 - 130	30
Toluene	ND	0.10	89.7	91.6	2.10	92.9	98.9	6.20	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	101	105	3.55	104	107	3.04	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	96.3	100	3.74	103	103	0	70 - 130	30	70 - 130	30
%SS:	86	0.10	103	101	1.17	89	95	6.14	70 - 130	30	70 - 130	30

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

**BATCH 32538 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-006A	12/13/07 2:50 PM	12/14/07	12/17/07 3:14 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 £ TPH(btex) = sum of BTEX areas from the FID.  
 # cluttered chromatogram; sample peak coelutes with surrogate peak.



**QC SUMMARY REPORT FOR SW8021B/8015Cm**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0712499

Analyte	EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 32590			Spiked Sample ID: 0712552-001A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>f</sup>	ND	60	83.6	110	27.0	99.6	100	0.913	70 - 130	30	70 - 130	30
MTBE	ND	10	95.9	100	4.67	98.6	96.6	2.00	70 - 130	30	70 - 130	30
Benzene	ND	10	97.7	87.1	11.5	100	97.9	2.58	70 - 130	30	70 - 130	30
Toluene	ND	10	103	103	0	104	104	0	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	106	104	1.91	106	108	2.37	70 - 130	30	70 - 130	30
Xylenes	ND	30	96.7	113	15.9	96.7	96.7	0	70 - 130	30	70 - 130	30
%SS:	99	10	108	88	20.6	113	111	1.33	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

**BATCH 32590 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-007A	12/13/07 3:00 PM	12/18/07	12/18/07 12:54 AM				

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

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.





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### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712499

Analyte	Extraction SW3550C			BatchID: 32516			Spiked Sample ID: 0712382-001A			Acceptance Criteria (%)		
	Sample mg/Kg	Spiked mg/Kg	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	ND	20	95.8	95.3	0.487	112	116	2.85	70 - 130	30	70 - 130	30
%SS:	101	50	101	101	0	129	119	7.91	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 32516 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-006A	12/13/07 2:50 PM	12/14/07	12/20/07 2:51 PM				

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

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

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

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

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



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### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0712499

Analyte	Extraction SW3510C		BatchID: 32588						Spiked Sample ID: N/A			
	Sample µg/L	Spiked µg/L	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)			
TPH(d)	N/A	1000	N/A	N/A	N/A	113	112	1.69	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	116	117	1.43	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 32588 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712499-007C	12/13/07 3:00 PM	12/14/07	12/18/07 7:25 PM				

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

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

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

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

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



Edd Clark &  
Associates, Inc.  
Environmental  
Consultants

07-12499

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927  
Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker:

Yes  No  Initials **EJVB**

Samplers Signature: *Ella Jan Vandenberg*

Analysis

EC&A job # 0585,002		Facility Name & Location:					Analysis				Remarks
Global I.D. # _____		1530-1540 Solano Ave. Albany, CA					HVOCs (8010)	TPH <sub>g</sub> /BTX MTHB (8015/8021)	TPH <sub>m</sub> ,TPHD (8015)	Total Lead	
Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items					
B-1	12/13/07	1155	B-1d5.5	discrete	S	1	X				
		1210	B-1d10.5			1	X				
		1225	B-1d15.0			1	X				
		1250	B-1d20.0	↓	↓	1	X				
↓	↓	1430	B-1W	grab	W	4/1	X				
DR-S	↓	1450	DR-1-S	comp	S	3	X	X	X	X	← Please Comp. in Lab
DR-W	↓	1500	DR-1-W	aliquot	W	3/1	X	X	X		Ⓢ

Relinquished by: <i>Ella Jan Vandenberg</i>	Date: 12/14/07	Time: 11:45	Received by:	Relinquished by:	Date: 12/14/07	Time: 4:30	Received by:
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date: 12/16	Time:	Received by:

GOOD CONDITION  
 HEAD SPACE ABSENT  
 DECHLORINATED IN LAB  
 APPROPRIATE CONTAINERS  
 PRESERVED IN LAB  
 PRESERVATION:  VOAS  O&G  METALS  OTHER

**McC Campbell Analytical, Inc.**



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

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0712499

ClientID: ECAR

EDF     Excel     Fax     Email     HardCopy     ThirdParty

Report to:

Etta Jon Vanden Bosch  
Edd Clark & Associates, Inc.  
320 Professional Center Ste. 215  
Rohnert Park, CA 94928

Email: corpmail@ecaenviron.com  
TEL: (707) 792-9500    FAX: (707) 792-9504  
ProjectNo: #0585, 002; 1530-1540 Solano Ave  
PO:

Bill to:

Accounts Payable  
Edd Clark & Associates, Inc.  
320 Professional Center Ste.215  
Rohnert Park, CA 94928

Requested TAT: 5 days

Date Received: 12/14/2007

Date Printed: 12/14/2007

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0712499-001	B-1d5.5	Soil	12/13/2007	<input type="checkbox"/>	A												
0712499-002	B-1d10.5	Soil	12/13/2007	<input type="checkbox"/>	A												
0712499-003	B-1d15.0	Soil	12/13/2007	<input type="checkbox"/>	A												
0712499-004	B-1d20.0	Soil	12/13/2007	<input type="checkbox"/>	A												
0712499-005	B-1W	Water	12/13/2007	<input type="checkbox"/>		A											
0712499-006	DR-1-S	Soil	12/13/2007	<input type="checkbox"/>	A		A		A	A							
0712499-007	DR-1-W	Water	12/13/2007	<input type="checkbox"/>		B		A				C					

Test Legend:

1	8010BMS S	2	8010BMS W	3	G-MBTEX S	4	G-MBTEX W	5	PB S
6	TPH(DMO) S	7	TPH(DMO) W	8		9		10	
11		12							

Prepared by: Elisa Venegas

Comments:

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



### Sample Receipt Checklist

Client Name: **Edd Clark & Associates, Inc.**

Date and Time Received: **12/14/2007 7:08:49 PM**

Project Name: **#0585, 002; 1530-1540 Solano Ave**

Checklist completed and reviewed by: **Elisa Venegas**

WorkOrder N°: **0712499** Matrix Soil/Water

Carrier: Rob Pringle (MAI Courier)

#### Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

#### Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 19.6°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
TTLIC Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Client contacted:

Date contacted:

Contacted by:

Comments:

## **Appendix C**

### **Underground Storage Tank Unauthorized Release (Leak) / Contamination Site Report**

## UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY		
REPORT DATE M   M   D   D   Y   Y			CASE #			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <b>Etta Jon Vanden Bosch</b>		PHONE <b>(707) 792-9500</b>	SIGNATURE <i>Etta Jon Vanden Bosch</i>		
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		<input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD			
	COMPANY OR AGENCY NAME <b>Edd Clark &amp; Associates, Inc.</b>					
ADDRESS <b>PO Box 3039 Rohnert Park CA 94927</b>						
RESPONSIBLE PARTY	NAME <b>Blank Family Trust</b>		<input type="checkbox"/> UNKNOWN <b>Muriel T. Blank</b>		PHONE <b>( )</b>	
	ADDRESS <b>1164 Solano Ave #406 Albany CA 94706</b>					
SITE LOCATION	FACILITY NAME (IF APPLICABLE)		OPERATOR		PHONE <b>( )</b>	
	ADDRESS <b>990 San Pablo Ave. Albany Alameda 94706</b>					
	CROSS STREET <b>Buchanan St.</b>					
IMPLEMENTING AGENCIES	LOCAL AGENCY <b>Alameda County Environmental Health</b>		CONTACT PERSON <b>TBD</b>		PHONE <b>(510) 567-6702</b>	
	REGIONAL BOARD <b>San Francisco Bay RWQCB</b>		CONTACT PERSON <b>TBD</b>		PHONE <b>(510) 622-2300</b>	
SUBSTANCES INVOLVED	(1) <b>Fuel Hydrocarbons</b>				QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN	
	(2)				<input type="checkbox"/> UNKNOWN	
DISCOVERY/ABATEMENT	DATE DISCOVERED <b>01/06/08</b>		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input checked="" type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS			
	DATE DISCHARGE BEGAN M   M   D   D   Y   Y		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> CLOSE TANK			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE <b>unknown</b>		<input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER <b>Soil &amp; groundwater samples</b>			
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL			
	<input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		<input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
CASE TYPE	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input checked="" type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input checked="" type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUND WATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> OTHER (OT)					
COMMENTS						