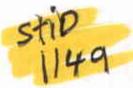
1140 - 5th Avenue, Crockett, CA 94525

(510) 787-6867 - Fax (510) 787-1457

11/10/an



November 4, 1999

Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Attention: Mr. Amir K. Gholami

RE: Further Assessment of Groundwater

Downtown Toyota, 4145 Broadway, Oakland

Mr. Gholami:

Attached please find a copy of the above-referenced report. Should you have any questions, please feel free to call me at (510) 787-6867.

Sincerely,

Geo-Logic

Joel G. Greger, C.E.G.

Certified Engineering Geologist

License No. EG 1633 Exp. Date 8/31/2000

Attachments

99 N9V -5 PM 3:32

1140 - 5th Avenue, Crockett, CA 94525

(510) 787-6867 - Fax (510) 787-1457

November 4, 1999 Paradiso Job No. 1103-07

Mr. Norman Alberts
Patterson Ranch, Inc.
211 Newell Avenue
Walnut Creek, California 94596

RE:

Further Assessment of Groundwater

Downtown Toyota 4145 Broadway

Oakland, California 94611

Dear Mr. Alberts:

#### INTRODUCTION

This report summarizes the findings following completion of four exploratory borings at the subject site, in the vicinity of a former waste oil tank. The purpose of this work was to attempt to determine the extent of petroleum impacts to ground water. This work was performed at the request of the Alameda County Environmental Health Services (ACEHS) in response to their letter to Messrs. John and Frank Sabatte dated September 2, 1999. The work was performed in general accordance with Geo-Logic's work plan and work plan addendum dated July 9 and September 2, 1999, respectively.

The scope of the work performed by Geo-Logic for this investigation consisted of the following:

Coordination with regulatory agencies and permitting

Marking of boring locations, concrete cutting, and hand augering

Geologic logging of four borings

Soil and ground water sampling

Delivery of soil and ground water samples (including properly executed Chain of Custody documentation) to a certified analytical laboratory for laboratory analyses

Data analysis, interpretation, and preparation of this report

This work was performed in compliance with the State of California Water Resources Control Board's Leaking Underground Fuel Tanks (LUFT) Manual and California Underground Storage Tank Regulations, 1994, the California Regional Water Quality Control Board (CRWQCB) Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites, and ACEHS guidelines.

#### SITE DESCRIPTION

The site is located on the western side of Broadway between 41<sup>st</sup> and 42nd Streets in Oakland, California. An active Toyota dealership and car repair facility occupies the site. The topography in the site vicinity slopes gently to the southwest, towards San Francisco Bay.

#### PREVIOUS FIELD ACTIVITIES

One 500-gallon underground waste oil tank was previously located on the site, in a car detailing bay near the eastern perimeter of the site towards Broadway. The tank was removed under the supervision of Burlington Environmental, Inc. (Burlington), in February, 1992. Additional soil excavation, sampling, and backfilling were performed in April, 1992. The results of the tank removal and subsequent sampling were summarized in a report by Burlington dated May 21, 1992.

The analytical results of a soil sample collected from beneath the tank at 8 feet below grade indicated concentrations of Total Petroleum Hydrocarbons (TPH) as Stoddard Solvent of 130 parts per million (ppm), Total Extractable Hydrocarbons (TEH) as Motor Oil at 900 ppm, and Total Oil and Grease at 630 ppm. Following additional excavation, a soil sample collected at 9 feet below grade yielded non-detectable results for all of the analytes.

Groundwater was encountered in the excavation at 10 feet below grade. The analytical results of a groundwater sample from the excavation indicated 5,600 parts per billion TEH as Motor Oil, 180 ppb TPH as gasoline, and non-detectable results for TPH as diesel. BTEX constituents ranged from non-detectable (toluene) to 4.2 ppb (total xylenes).

In February, 1994, in response to a request for additional investigative work from the ACEHS, eleven borings were completed at the site by Burlington. Soil samples were collected from four borings adjacent to the former tank excavation (PSO1 through PSO4). Groundwater samples were collected in nine of the eleven borings (borings PSO4 and PS10 were dry). The soil and groundwater samples were analyzed for Total Recoverable Petroleum Hydrocarbons (TRPH), TPH as gasoline, TPH as diesel, TEH as motor oil, and BTEX.

The analytical results of the soil samples from the borings adjacent to the former tank excavation yielded non-detectable results for all analytes, except for in boring PSO4. In this boring, all of the analytes were non-detectable except for TPH as gasoline, which was detected in each of two samples at concentrations of 11 and 32 ppm, and toluene, ethylbenzene, and total xylenes, which were detected at concentrations ranging from non-detectable to 0.14 ppm.

The analytical results of the ground water samples from the nine borings where water was encountered indicated concentrations of TPH as gasoline ranging up to 16,000 ppb, TEH as diesel ranging up to 50,000 ppb, TEH as Motor Oil ranging up to 36,000 ppb, and TRPH ranging up to 520,000. BTEX constituents were relatively low, with benzene ranging from non-detectable to 1.6 ppb. The highest concentrations of hydrocarbons were encountered in boring PSO8, located southwest of the former tank pit.

Based on these findings, in a letter to Messrs. Frank and John Sabatte dated May 12, 1999, the ACEHS requested additional delineation, specifically "southeast of PSO8 and northwest of PSO7, which represent the areas with highest contaminant concentrations to ensure the plume has not traveled offsite". An ACEHS letter dated September 2, 1999, in review of Geo-Logic's work plan dated July 9, 1999, requested additional sampling of soil and groundwater in between PSO7 and PSO8.

Per the request of the ACEHS in their letter dated May 12, 1999, Geo-Logic performed file reviews of several nearby sites, to verify the presumed direction of ground water flow. Based on these file reviews, the ground water flow direction was assumed to be to the southwest, consistent with the topographic slope of the site and vicinity, and consistent with the regional flow direction towards San Francisco Bay. This work was reported in Geo-Logic's work plan dated July 9, 1999.

#### RECENT FIELD ACTIVITIES

Prior to drilling, a permit was obtained from the City of Oakland Engineering Department (B-1). The boring locations were marked with white paint and Underground Service Alert was notified. In addition, a site-specific Health and Safety Plan was prepared. Prior to drilling, a concrete sawing contractor cored 4-inch diameter holes at each boring location, and the uppermost 4 to 5 feet were hand augered to verify the absence of underground utilities.

On October 25, 1999, the four exploratory borings, designated as B-1 through B-4 on the attached Figure 1, were completed in the downgradient vicinity of the former waste oil tank pit using a Geo-Probe direct-push drill rig. The borings were completed to depths of between 12 and 16 feet below grade. The subsurface soil conditions encountered are shown on the Boring Logs, attached to this report as Appendix A.

Soil samples were collected continuously for the entire depth of the borings, beginning at approximately 4 to 5 feet below grade, for laboratory analysis and lithologic logging purposes. The soil samples were field screened with a photo-ionization detector (PID). The only sample with hydrocarbons that were detectable using the PID was the capillary fringe sample from boring B-2, which also was the only soil sample where an odor of hydrocarbons was noted. The PID readings were recorded on the boring logs.

Prior to use, the drill rods were cleaned using a hot water pressure washer. The undisturbed soil samples were collected by driving a sampling tool containing a plastic liner ahead of the drill rods. The plastic liner holding the soil was then cut into samples which were screened with the PID and logged lithologically. Soil samples selected for laboratory analyses were sealed with Teflon-lined plastic caps, labeled, and placed in individually sealed plastic bags. The samples were then stored in a cooler, on ice, until delivery to a state-certified laboratory.

The subsurface soils encountered consisted predominantly of clayey silt and clayey silt with gravel. Groundwater was initially encountered at depths ranging between 9.5 (B-2) and 13.8 (B-4) feet below grade during drilling, except for in boring B-3, which remained dry on the day of drilling. Groundwater then rose up to 2.5 feet in the remaining boreholes. After retracting the drill rods, water samples were collected from these borings using clean teflon bailers. The samples were decanted into clean amber liters and VOA vials, which were then sealed with Teflon-lined screw caps, labeled, and stored and handled as described above.

In boring B-3, the boring was repeatedly extended and ground water sampling was attempted, however, ground water did not collect in the borehole even upon completion to 16 feet below grade. Therefore, a one-inch slotted PVC casing was installed in the borehole. The following day (October 26, 1999), ground water was measured at 8.9 feet below grade and a water sample was collected.

Following sample collection, the borings were backfilled with bentonite within the saturated zone, followed by neat cement grout. Quick setting concrete was used to finish sealing of the boreholes at grade. Drill cuttings generated from the borings were placed in a DOT-approved 5-gallon steel pail, which was labeled and stored onsite, pending proper disposal.

### ANALYTICAL RESULTS

The soil and water samples from the borings were analyzed at McCampbell Analytical in Pacheco, California. All samples were accompanied by properly executed Chain of Custody documentation. The samples were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel and TPH as Motor Oil by EPA method 5030/modified 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020.

No detectable concentrations of any of the analytes were detected in the soil samples from borings B-1, B-3 and B-4. TPH as gasoline, TPH as diesel and TPH as motor oil were detected in the capillary fringe sample obtained from boring B-2 at 9 feet below grade. Toluene was also detected at a concentration of 0.081 ppm. The remaining BTEX constituents and MTBE were not detected. These findings are consistent with the PID field screening and field observations.

TPH as diesel and TPH as motor oil were detected in all of the four water samples, at concentrations ranging up to 8,600 ppb (diesel) and 11,000 ppb (motor oil). The highest concentrations were in boring B-2, with the next highest concentrations in B-3. TPH as gasoline

was also detected in B-2 and B-3 at concentrations of 5,200 and 110 ppb, respectively. Benzene, ethylbenzene, xylenes, and MTBE were non-detectable in all of the borings, except for 9.6 ppb of xylenes detected in B-2, and 7.8 ppb of MTBE detected in B-1. Toluene was detected in B-3 and B-4 at concentrations of 0.76 and 0.60 ppb, respectively.

The results of the soil analyses are summarized in Table 1, and the results of the water analyses are summarized in Table 2. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

#### DISTRIBUTION

A copy of this report should be sent to Mr. Amir Gholami of the ACEHS.

#### **LIMITATIONS**

Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state certified laboratory. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

Should you have any questions regarding this report, please feel free to call me at (510) 787-6867.

Sincerely,

Geo-Logic

Joel G. Greger, C.E.G.

Certified Engineering Geologist

License No. EG 1633 Exp. Date 8/31/2000 JOEL G. GREGER

No. EG 1633
CERTIFIED
ENGINEERING
GEOLOGIST
CALIFORNIA

Attachments:

Tables 1 and 2

Figure 1 - Site Plan

Laboratory Analyses and Chain of Custody

Appendix A - Boring Logs

TABLE 1
SUMMARY OF LABORATORY ANALYSES- SOIL

Sample/depth	TPH Gas	TPH Diesel	TPH M.O.	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE
		(Collected or	n October	25, 1999)				
B-1 (7')	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.05
B-2 (9')	58		48	<0.005	0.081	0.012	<0.005	<0.05
B-3 (8.5')	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.05
B-4 (12.5'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.05
Detection Limit	1.0	1.0	5.0	0.005	0.005	0.005	0.005	0.05

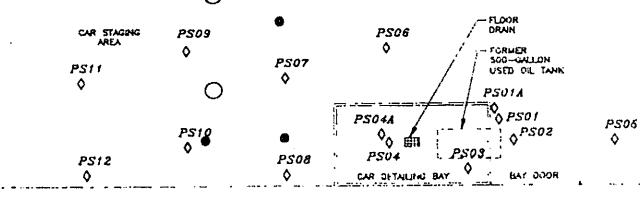
Results are in parts per million (ppm).

TABLE 2
SUMMARY OF LABORATORY ANALYSES - WATER

Sample/depth	TPH Gas	TPH <u>Diesel</u>	ТРН <u>M.O</u> .	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE
		(Collected	on October	25, 1999)				
B-1 (8.7') B-2 (9.5')	<50 5200	130 8600	400	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 9.6	7.8 <5.0
B-3 (8.9')	110	1600	2200	< 0.5	0.76	< 0.5	< 0.5	<5.0
B-4 (12.8')	< 50	140	340	< 0.5	0.60	< 0.5	< 0.5	< 5.0
Detection Limit	50	50	250	0.5	0.5	0.5	0.5	5.0

Results are in parts per billion (ppb).

## DOWNTOWN TOYOTA BUILDING



**BROADWAY** 

## **LEGEND**

Exploratory boring, previous investigation

● Exploratory boring, this investigation

Approx. Scale: 1" = 20"

DOWNTOWN TOYOTA 4145 BROADWAY OAKLAND, CA Figure No:

Date: November 3, 1999

Site plan after Burlington Environmental, Inc., 1994

1

Drawn By: JG/Geo-Logic

SITE PLAN

# McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

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alcosst A	Analytical is Street		Toyota 414				Date Recei	ved: 10/25	/99				
Emeryvil	le, CA 94608		Client Cont	act; Joel C	3reger	,	Date Extra	cted: 10/25	-10/ <b>27/9</b> 9				
			Client P.O:	:	• *		Date Analy	/zcd: 10/25	5-10/27/99				
Gasolin	e Range (C6-	C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & diffed 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)  Matrix TPH(g)* MTBE Benzene Toluene Ethylben* Zene Xylenes											
Lab ID	Client ID			1	i .		Emylben-		% Recovery Surrogate				
24048	B 1 (7')	S	ND	ND	ND	ND	ND	ND	101				
24049	B 2 (9')	9	58,8	ND	ND	0.081	0.012	ND	<b>*</b>				
24052	B 4 (12.5°)	S	מא	ND	ND	ND	ND	D	97				
24053	B 1 (8.7°)	w	ND	7.8	ND	ND	ND	ND	101				
24054	B 2 (9.5')	W	5200.g	מא	ND	ND	ND	9.6	103				
24056	B4(12.8')	W	ND	ND	ND	0.60	ND	NĐ	100				
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Reporti	ing Limit unless	T w	50 ug/L	5.0	0.5	0.5	0.5	0.5					

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

0.005

0.05

 $1.0 \, \mathrm{mg/kg}$ 

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell 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 gasuline?; a) TPH pattern that does not appear to be derived from gasoline (?); () one to a few isolated peaks present: g) strongly aged gaseline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than -5 vol. % acdiment; j) no recognizable pattern.

DHS Certification No. 1644

otherwise stated; ND means not detected above

the reporting limit

Edward Hamilton, Lab Director

0.005

0.005

0.005

4906759015

cluttered chromatogram; sample peak coelutes with surragate peak

24054

24056

## McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccsmpbell.com E-mail: main@mccampbell.com

11,000

340

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	·		iect Π)· #1 103-07: Downtown	Date Sampled	: 10/25/99			
		Toyota 41	45 Broadway Oakland, CA	Date Received	i: 10/25/99			
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•	Toyota 4145 Broadway Cakland, CA  c, CA 94608  Client Contact: Joel Greger  Client P.O:  Range (C16-C23) and Oil-Range (C18+) Extractable Hydia modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) me  Client ID  Matrix  TPH(d)*  B 1 (7')  S  ND  B 2 (9')  S  33,g,e  B 4 (12.5')  S  ND			Date Analyze	d: 10/25-10/28/99			
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24048	B 1 (7')	S	ND		107			
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8600.g.c

140.g.b

W

w

B 2 (9.5')

B 4 (12.8')

Reporting Limit unless otherwise	W	50 ug/L	250 ug/L	
stated; ND means not detected above the reporting limit	Š	i .0 mg/kg	5.0 mg/kg	
annum consider are reported to 110/1. U	ine comics	in up/wine, soil and sludge \$8	moles in mg/kg, and all TCLP / STLC	/ SPLP extract

ets in ug/L

cluttered chromatogram resulting in cocluted 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 McCampbell 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) medium boiling point pattern that does not match diesel (Stoddard Solvent); () one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than -5 vol. % sediment.

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i 10 2mi Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mecamphell.com E-mail: main@mccampbell.com

Calcoast Analytical	Client Project ID: Downtown Toyota	Date Sampled: 10/25/99
4072 Watts Street		Date Received: 10/27/99
Emeryville, CA 94608	Client Contact: Joel Greger	Date Extracted: 10/27/99
	Client P.O:  Volatile Hydrocarbons as Gasoline*, with M	Date Analyzed: 10/27/99

5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method (ICFID(5030) Lab ID Client ID Matrix TPH(g)+ MTBE Ethylben-Benzene % Recovery Toluene Xylenes zene <u> Surrogate</u> 24155 B3(8,5) S ND ND ND ND ND ND 99 Reporting Limit unless W 50 ug/L 5.0 0.5 0.5 0.5 otherwise stated; ND 0.5 means not detected above S 1.0 mg/kg 0.05 0.005 the reporting limit 0.005 0.005 0.005

DHS Certification No. 1644



<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, sail and sludge samples in mg/kg, and all TCLF and SPLP extracts in ug/L.

<sup>\*</sup> cluttered chromatogram; sample peak coefules with surrogate peak

The following descriptions of the TPH chromatogram are cursor) in nature and McCampbell 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 lawing broad chromatographic peaks are significant; biologically altered gasoline?, e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible aftern is present; i) liquid sample that contains greater than -5 vol. % sediment; j) no recognizable pattern.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1520 Fax: 925-798-1622 http://www.mccamphell.com E-mail: main@mccampbell.com

Calcoast An		Client P	roject ID: Downtown Tayota	Date Sample	ed: 10/25/99
4072 Watts				Date Receive	ed: 10/27/99
Emeryville,	CA 94608	Client C	ontact: Joel Greger	Date Extract	ed: 10/27/99
		Client P.	***	Date Analyz	ed: 10/29-10/31/99
Diesel Re	inge (C10-C23) a addited 8015, and 355	nd Oil-Ran 0 or 3510; Calif	ge (C18+) Extractable Hydr omia RWQCB (SF Bay Ragion) me		
Lab ID	Client ID	Matrix	TPH(d)'	TPH(mo) <sup>1</sup>	% Recovery Surrogate
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stated; ND means	t unless otherwise s not detected above	W	50 ug/L	250 ug/L	
the repo	orting limit	s	1 0 mg/kg	5 0 mg/kg	

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell 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 algorificant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immuscible theen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

DHS Certification No. 1644

All Edward Hamilton, Lab Director

<sup>\*</sup>water samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCI.P / STLC / SPLP extracts in ug/L

<sup>\*</sup> 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.

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## McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

alcoast	Analytical		Client Proje	ct ID: Do	wntown To	yota	Date Samp	led: 10/26/	99		
	ns Street					•	Date Recei	ved: 10/26	/99		
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	ng Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5			
	ot detected above eporting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005			

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interprotation: 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 (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immuscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



<sup>\*</sup> cluttered chromatogram; sample peak coclutes with surrogate peak

## McCAMPBELL ANALYTICAL INC.

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Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Calcoast Anal	امعندها	Client Pro	ject ID: Downtown Toyote	Date Sampled	l: 10/26/99
Carcoast Ama 4072 Watts S	•		,	Date Receive	d: 10/26/99
Emeryville, C		Client Con	ntact: Kevin Yan	Date Extracte	d: 10/28-11/01/99
		Client P.C	);	Date Analyza	d: 10/28-11/01/99
Diesel Ra	inge (C10-C23)	and Oil-Range	(C18+) Extractable Hyd	Irocarbous as Diesel	and Motor Oil*
EPA methods m Lab ID	Client ID	Matrix	mia RWQCB (SF Bay Region) n TPH(d)*	TPH(mo)*	% Recovery Surrogate
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50 ug/L

1.0 mg/kg

W

S

250

5.0

Reporting Limit unless otherwise stated; ND means not detected above

the reporting limit

water samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all ICLP / STLC / SPLP extracts in

<sup>\*</sup> cluttered chromatogram resulting in cocluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

<sup>&</sup>quot;The following descriptions of the TPH chromatogram are cursory in nature and McCampbell 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) medium boiling point pattern that does not match diesel (Stoddard Solvent); f) one to a few isolated peaks present; a) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

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## APPENDIX A

## **BORING LOGS**

		·		ВО	RING LOG				
Paradiso Job No. 1103-07			Вс	oring dia	ameter 2	2" Logged By: Joel			
Project: Downtown Toyota 4145 Broadway, Oakland			Well C	over Ele	evation NA	n NA Date drilled: 10/25/99			
Boring No.		D	rilling M	lethod: GeoProb	thod: GeoProbe Drilling Company: Gregg				
Penetration Blows/6" Sample Dept (ft)			G.W. level	I granhul Describition					
0					@0' -9" of asphaltic concrete				
(Direct push) Continuously cored 4-13.5		- · · · · · · · · · · · · · · · · · · ·	- - - - - -		very stiff	, occasional	dark brown, slightly moist, subrounded gravels, gravelly ped native soil).		
PID - 0		_ 5 _	ML		@4'- CLAYEY SILT (ML), as above, occasional sub- rounded to subangular gravels to 1-1/4" diameter, slightly moist to moist, very stiff (alluvium).				
PID - 0	B1-7'								
PID - 0			¥		@7.5'- color change to light brown, few gravels.  @8.5'- CLAYEY SILT with gravel (ML), very moist, to locally wet, very stiff, estimated at 45% sub-				
PID - 0		- 10 -			angular gravels to 1.5" diameter, gravels deeply weathered.				
PID - 0		- -							
PID - 0		 - ·			Groundwater measured at 11.2', rose quickly to 8				
		- - - 15 - -				OTAL DEP vith bentonite	TH: 13.5' e and neat cement grout		
Site Address: Downtown Toyota 4145 Broadway Oakland, California					Figure No:	Date: 10	0/28/99		
					B-1	Drawn B	By: JG/Geo-Logic		

Log of Boring B-1

· · · · · · · · · · · · · · · · · · ·			<u>.</u>	BOI	RING	LOG			
Paradiso Job	3-07	В	oring dia	meter	<b>2</b> *		Logged By: Joel Greger		
Project: Down		Well C	over Ele	vation	NA		Date drilled: 10/25/99		
Boring No.		D	rilling M	ethod:	GeoProbe		Drilling Company: Gregg Drilling		
Penetration Blows/6*	Sample	(ft)	G.W. Strati- graphy (USCS)			Description			
(Direct push) Continuously cored 4-12*  PID - 0  PID - 0  PID - 0  PID - 142  PID - 0	B2-9'	B2-9' _ 10 -		ML			<ul> <li>3'-4" of concrete over 8" of fill.</li> <li>3'- CLAYEY SILT (ML), dark brown, slightly moist, very stiff, locally with up to 10% subrounded gravels to 1/4" diameter, gravels deeply weathered (topsoil and alluvium).</li> <li>3'- CLAYEY SILT (ML), as above except subangular gravels to 1-1/4" diameter, slightly moist to very moist, very stiff, thin gravel layer at 5' (alluvium).</li> <li>3'- CLAYEY SILT with gravel (ML), very moist to saturated, very stiff, estimated at 45% subangular gravels to 1.5" diameter, gravels deeply weathered.</li> <li>9' - odor of hydrocarbons.</li> <li>0.5'- color change to brown.</li> <li>10.8'- CLAYEY SILT (ML), saturated, very stiff, trace very fine-grained sand and subrounded gravels.</li> </ul>		
		15			Ba		TOTAL DEF	PTH: 12 <sup>t</sup> and neat cement grout	
Site Address: Downtown Toyota 4145 Broadway Oakland, California						jure No: B-2	Date: 10	/28/99 /: JG/Geo-Logic	
	Vaniai iū	, Camu		of	Во	ring		,	

				ВО	RING LO	OG			
Paradiso Job No. 1103-07			В	oring dia	meter	2"	Logged By: Joel Greger		
Project: Downtown Toyota 4145 Broadway, Oakland			Well C	over Ele	evation	NA	Date drilled: 10/25/99		
Boring No. B-3				rilling M	ethod: G	od: GeoProbe Drilling Company: Gregg			
Penetration Blows/6°	Sample Dyp			G.W. Strati- graphy (USCS)			Description		
		-			@0' -4'	@0' -4" of concrete over 8" lof sand silt (fill).			
(Direct push) Continuously cored from 4-16'		1 1 1 1	<u>-</u>		VE	ery stiff,	SILT (ML), dark brown, slightly moist, occasional rounded to subrounded gravel meter (topsoil and alluvium).		
PID - O		- - -		ML	br	own at	SILT (ML), dark brown, changing to 5', moist, very stiff, occasional subgravels to 1" diameter (alluvium).		
PID ~ 0		- 5 -			9	gravels s diameter	ve except with estimated 15% gravel, subrounded, deeply weathered, to >2" but predominantly <1/2", gravel content og with depth.		
PID - 0	B3-8.5'	- - - - - 10	X <u></u>	GM	i t :	sh brow nard, e: >2" diam	to SILTY GRAVEL (GM), light yellow- on to dark green at 9', very moist to wet, stimated at 75% subangular gravels to neter, 25% silt, trace clay and sand. deeply weathered.		
PID - 0		- - -			@12'	•	oted to collect sample, water did not in borehole, gravel content decreasing.		
PID ~ 0		- - - 15		ML	<ul> <li>@13' - CLAYEY SILT (ML), light brown, saturated?, very stiff, with trace to 10% subrounded, deeply weathered gravels to 1/8" diameter.</li> <li>@14.5 and 16' - attempted to collect sample, water did not collect in borehole, installed 1" casing.</li> </ul>				
PID - 0		-  -  -			Daala	ТО	TAL DEPTH: 16'		
	Site Address: Downtown Toyota						th bentonite and neat cement grout  Date: 10/28/99		
	ay ornia			3-3	Drawn By: JG/Geo-Logic				

Log of Boring B-3

, , , , , , , , , , , , , , , , , , ,				ВО	RING	LOG			
Paradiso Job	3-07	Bo	oring dia	meter	2 <sup>n</sup>	Logged By: Joel Greger			
Project: Downs		Well C	over Ele	evation	NA	Date drilled: 10/25/99			
Boring No.		D	rilling M	lethod:	GeoProbe	Drilling Company: Gregg Drilling			
Penetration Blows/6"	Sample	(ft)	G.W. level	Strati- graphy (USCS)			Description		
(Direct push) Continuously cored 4-14'		- 0			\ <del>-</del>	' - CLAYE	sphaltic concrete.  EY SILT (ML), dark brown, slightly moist, locally with subrounded gravels to 2 <sup>st</sup> (fill).		
PID - 0		- - 5 ·	- -	ML			EY SILT (ML), as above except native d alluvium)		
PID - 0		- - - -	- - -		@ 5.7'- color changes to brown. @7.5'- CLAYEY SILT with gravel (ML), dark brown, moist, very stiff, est.at 35% subangular gravels to 1.5" diameter, gravels deeply weathered.				
PID - 0				GM	@8' Grades to SILTY GRAVEL (GM), very moist, very stiff, estimated at 70% subangular gravel, deeply weathered.				
PID - 0		- 10 · - -							
PID - 0	B4-12.5'	- - - -	X Z Z	ML	@11.6' - CLAYEY SILT (ML), yellowish brown, very moist to wet, very stiff, homogenous, with black MnO staining. @13.8' - groundwater, rose to 12.8'.				
PID + 0		- 15 · -			E	Backfilled v	TOTAL DEPTH: 14' with bentonite and neat cement grout		
		Addres		•	Fig	gure No:	Date: 10/28/99		
	Broadwa I, Califo	ay			B-4	Drawn By: JG/Geo-Logic			
			Log	of	Вс	ring	B-4		