

P & D ENVIRONMENTAL

A Division of Paul H. King, Inc.
4020 Panama Court
Oakland, CA 94611
(510) 658-6916

FAX TRANSMITTAL COVER SHEET

Date: 12/22/99

Job #: 0721

To: CHARLES STUHR, WILSON CHIA, + MIRANDA CHANG

Company: STUHR, CORVI, MILLER, + ASHLEY

From: GREG BROWN
P&D ENVIRONMENTAL

Number of pages in this transmittal, including this cover sheet: 7

SUBJECT: SAMPLE RESULTS - 2497-2507 GROVE WAY, CASTRO VALLEY

MESSAGE: _____

PLEASE FIND THE FOLLOWING ATTACHED:

o ANALYTICAL RESULTS FOR SOIL SAMPLES (2 PP.)

o CHAIN OF CUSTODY DOCUMENTATION (1 P.)

o ANALYTICAL RESULTS FOR WATER SAMPLES (2 PP.)

o C.O.C. DOCUMENTATION (1 P.)

o SITE MAP / SAMPLE LOCATIONS (1 P.)

CALL IF YOU HAVE QUESTIONS.


THANKS!

- GREG

CC: SCOTT SEERY, ACPEH 50/337-9335 (F)

If transmittal is incomplete, please call (510) 658-6916.
P&D Environmental fax number: (510) 658-9074.

DESTINATION FAX NUMBER: 415/385-3835

 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

P&D Environmental 4020 Panama Court Oakland, CA 94611	Client Project ID: #0221; Chang & Chin Site-Castro Valley	Date Sampled: 12/09-12/10/99
	Client Contact: Paul King	Date Received: 12/10/99
	Client P.O:	Date Extracted: 12/10/99
		Date Analyzed: 12/11/99

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWOCB (SF Bay Region) method GCFID(5030)


Lab ID	Client ID	Matrix	TPH(g) [†]	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
27187	B1-15.0	S	ND	ND	ND	ND	ND	ND	104
27188	B2-15.0	S	ND	ND	ND	ND	ND	ND	108
27189	B3-16.0	S	ND	ND	ND	ND	ND	ND	106
27190	B4-15.0	S	ND	ND	ND	ND	ND	ND	103
27191	B5-15.0	S	ND	ND	ND	ND	ND	ND	116
27192	B6-16.0	S	1000,a	ND<0.4	4.9	18	15	90	---
27193	B7-15.0	S	ND	ND	ND	ND	ND	ND	106
27194	B8-15.0	S	ND	ND	ND	ND	ND	ND	101
27195	B9-16.0	S	ND	ND	ND	ND	ND	ND	106
27196	B10-15.0	S	ND	ND	ND	ND	ND	ND	102
27197	B11-15.0	S	ND	ND	ND	ND	ND	ND	114
27198	R12-16.0	S	ND	ND	ND	ND	ND	ND	111
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	5.0	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* 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.

[†] cluttered chromatogram, sample peak coelutes with surrogate peak

* 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 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 sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



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	Client Contact: Paul King	Date Received: 12/10/99
	Client P.O:	Date Extracted: 12/10/99
		Date Analyzed: 12/11-12/15/99

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3530 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)	% Recovery Surrogate
27187	B1-15.0	S	ND	102
27188	B2-15.0	S	ND	98
27189	B3-16.0	S	ND	103
27190	B4-15.0	S	ND	103
27191	B5-15.0	S	ND	104
27192	B6-16.0	S	190,d,b	99
27193	B7-15.0	S	ND	101
27194	B8-15.0	S	ND	99
27195	B9-16.0	S	ND	101
27196	B10-15.0	S	ND	98
27197	B11-15.0	S	ND	97
27198	B12-16.0	S	ND	100
Reporting Limit unless otherwise stated; NI) means not detected above the reporting limit	W	50 ug/L		
	S	1.0 mg/kg		

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

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

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 (?); f) 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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CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NUMBER: 0221		PROJECT NAME: Chang & Chin Site - Castro Valley			NUMBER OF CONTAINERS	ANALYSIS(ES):				PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) Paul H. King Paul H. King						TPH-D	TPH-Ges	BTEX	OTHER		
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION							
B1-15.0	12/9/99		Soil	Borehole B1	1	X	X			ICE	Normal Turn Around
B2-15.0	"		"	" B2	1	X	X			"	" "
B3-16.0	"		"	" B3	1	X	X			"	" "
B4-15.0	"		"	" B4	1	X	X			"	" "
B5-15.0	"		"	" B5	1	X	X			"	" "
B6-16.0	"		"	" B6	1	X	X			"	" "
B7-15.0	"		"	" B7	1	X	X			"	" "
B8-15.0	12/10/99		"	" B8	1	X	X			"	" "
B9-16.0	"		"	" B9	1	X	X			"	" "
B10-15.0	"		"	" B10	1	X	X			"	" "
B11-15.0	"		"	" B11	1	X	X			"	" "
B12-16.0	"		"	" B12	1	X	X			"	" "
							VOLATILE ORGANICS		OTHER		27187
					ICE <input checked="" type="checkbox"/>		PRESERVATION				27188
					GOOD CONDITION <input checked="" type="checkbox"/>		APPROPRIATE				27188
					HEAD SPACE ABSENT <input checked="" type="checkbox"/>		CONTAINERS <input checked="" type="checkbox"/>				27190
RELINQUISHED BY: (SIGNATURE) Paul H. King		DATE 12/9/99	TIME 7:04	RECEIVED BY: (SIGNATURE) Roger Hall		TOTAL NO. OF SAMPLES (THIS SHEET) 12		LABORATORY: McCampbell Analytical			27191
RELINQUISHED BY: (SIGNATURE) Roger Hall		DATE 12/10	TIME 7:51 PM	RECEIVED BY: (SIGNATURE) Diane Dorn		TOTAL NO. OF CONTAINERS (THIS SHEET) 12		LABORATORY CONTACT: Ed Hamilton (925) 798-1620			27192
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)		SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO					27193
REMARKS:											27194
											27195
											27196
											27197
											27198

TB.MV

Sent By: P&D ENVIRONMENTAL;
Sent By: McCampbell Analytical;
TO: P&D ENV. At: 15106589074
5106589074;
925 798 4612;
Dec-22-99 10:27AM;
Dec-17-99 5:57PM;
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	Client Contact: Paul King	Date Received: 12/10/99
	Client P.O.:	Date Analyzed: 12/10/99
	Date Extracted: 12/10/99	Date Analyzed: 12/10/99


Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*
 EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)*	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
27199	B1-Water	W	ND,i	ND	ND	ND	ND	ND	100
27200	B2-Water	W	ND,i	ND	ND	ND	ND	ND	99
27201	B3-Water	W	56,j	ND	ND	ND	ND	ND	101
27202	B4-Water	W	ND,i	ND	ND	ND	ND	ND	98
27203	B5-Water	W	80,a,i	ND	0.20	0.84	0.81	1.9	100
27204	B6-Water	W	120,000,d,i	ND<200	6000	22,000	4000	21,000	99
27205	B7-Water	W	ND,i	ND	ND	ND	ND	ND	100
27206	B8-Water	W	ND,i	ND	ND	ND	ND	ND	101
27207	B9-Water	W	ND,i	ND	ND	ND	ND	ND	102
27208	B10-Water	W	ND,i	ND	ND	ND	ND	ND	101
27209	B11 Water	W	ND,i	ND	ND	ND	ND	ND	103
27210	B12 Water	W	ND,i	ND	ND	ND	ND	ND	102
Reporting Limit unless otherwise stated, ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* 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

* clustered chromatogram; sample peak coelutes with surrogate peak

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 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 phase is present; i) liquid sample that contains greater than ~5 vol % sediment; j) no recognizable pattern

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	Client Contact: Paul King	Date Received: 12/10/99
	Client P.O:	Date Extracted: 12/10-12/15/99
		Date Analyzed: 12/13-12/19/99

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)*	% Recovery Surrogate
27199	B1-Water	W	80,g,b,i	99
27200	B2-Water	W	120,g,i	100
27201	B3-Water	W	73,g,b	113
27202	B4-Water	W	ND,i	103
27203	B5-Water	W	160,g,b,i	100
27204	B6-Water	W	88,000,d,b,i	104
27205	B7-Water	W	58,g,b,i	99
27206	B8-Water	W	160,g,b,i	113
27207	B9-Water	W	ND,i	100
27208	B10-Water	W	68,g,b,i	97
27209	B11 Water	W	ND,i	95
27210	B12 Water	W	ND,i	106
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

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

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

*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 (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible shown is present; i) liquid sample that contains greater than ~5 vol. % sediment.

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CHAIN OF CUSTODY RECORD

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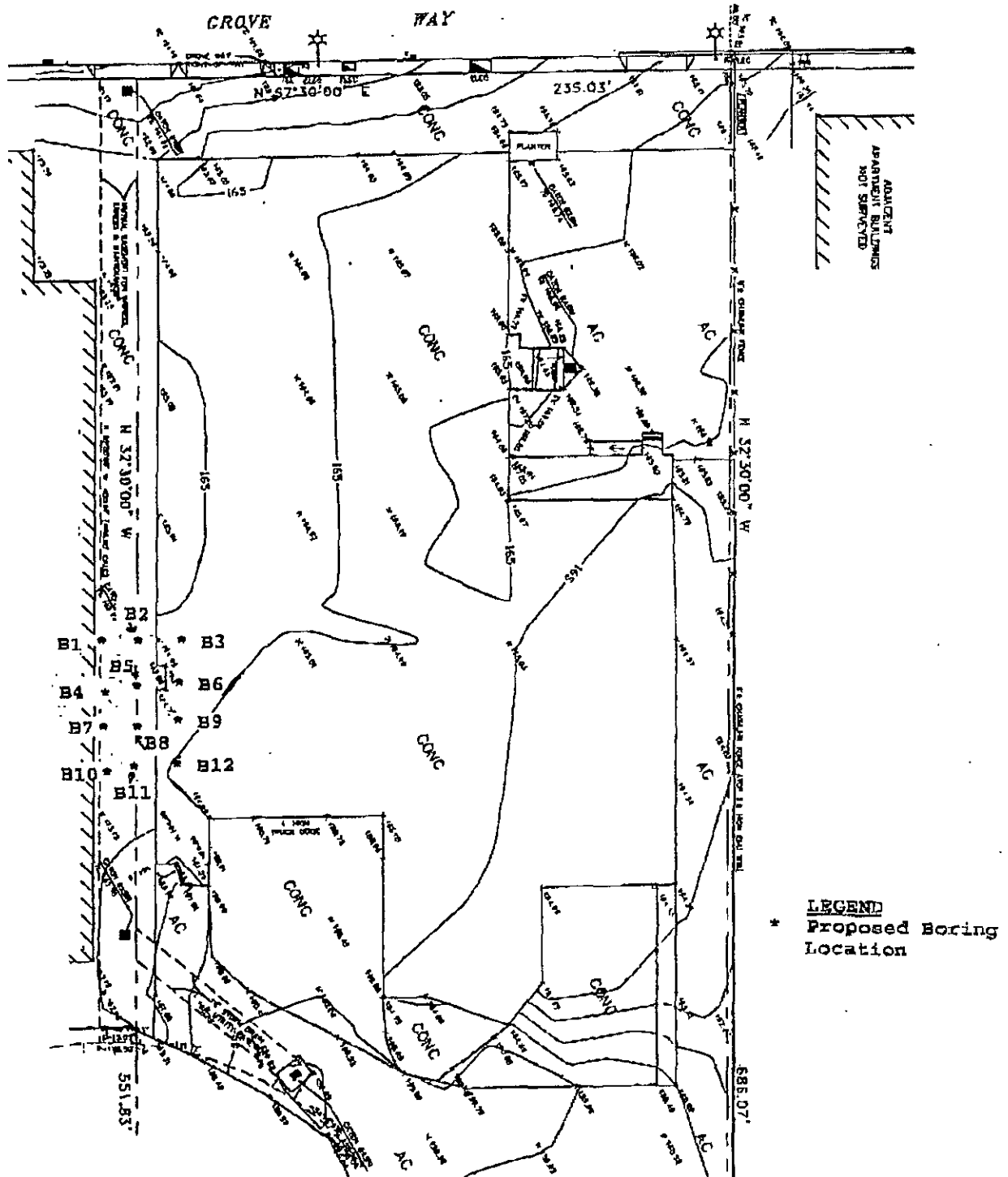
PROJECT NUMBER: C221		PROJECT NAME: Chang & Chin Site - Castro Valley				NUMBER OF CONTAINERS	ANALYSIS(ES):				PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) Paul H. King		DATE	TIME	TYPE	SAMPLE LOCATION		TPH-D	TPH-Gas/BTEX				
B1 - water	12/19/99			Water	Borehole B1	3	X	X				
B2 - water	"			"	" B2	3	X	X				
B3 - water	"			"	" B3	3	X	X				
B4 - water	"			"	" B4	3	X	X				
B5 - water	"			"	" B5	3	X	X				27199
B6 - water	"			"	" B6	3	X	X				27200
B7 - water	"			"	" B7	3	X	X				27201
B8 - water	12/10/99			"	" B8	3	X	X				27202
B9 - water	"			"	" B9	3	X	X				27203
B10 - water	"			"	" B10	3	X	X				27204
B11 - water	"			"	" B11	3	X	X				27205
B12 - water	"			"	" B12	3	X	X				27206
												27207
												27208

RELINQUISHED BY: (SIGNATURE) Paul H. King	DATE 12/10	TIME 7:00	RECEIVED BY: (SIGNATURE) Roger Hall	TOTAL NO. OF SAMPLES (THIS SHIPMENT) 12	LABORATORY: McCampbell Analytical
RELINQUISHED BY: (SIGNATURE) Roger Hall	DATE 12/16	TIME 2:30 PM	RECEIVED BY: (SIGNATURE) Phyllis Brown	TOTAL NO. OF CONTAINERS (THIS SHIPMENT) 36	LABORATORY CONTACT: Ed Hamilton
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	LABORATORY PHONE NUMBER: (925) 798-1620	
REMARKS:				SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO	

27209
27210

P & D ENVIRONMENTAL

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4020 Panama Court
Oakland, CA 94611
(510) 658-6916



Base Map From:
Center Line Land Surveyors
Livermore, California
August, 1999 Land Title Survey

Figure 1
SITE PLAN
Lands of Chiu and Chang
2497-2507 Grove Way
Castro Valley, California.