



United States Department of the Interior

BUREAU OF RECLAMATION

Mid-Pacific Region
Tracy Office (CVP)
Route 1 Box 35

Byron, California 94514-9614

ALCO
HAZM
94 OCT 14
TAKE
PRIDE IN
AMERICA

IN REPLY
REFER TO:

DAO-435
ENV-5.00

OCT 12 1994

Ms. Eva Chu
Hazardous Material Specialist
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Subject: Soil Test Results -- Tracy Gasoline and Oil Tank Removal -- Delta
Division -- Central Valley Projects (CVP) CA

Dear Ms. Chu:

Enclosed are the soil test results from Cottle Engineering. Please note that the sample designated as "BR51 Comp" is the soil which is being remediated in our maintenance yard. Please determine, at your earliest convenience, if the soil has been adequately remediated so that we may begin disposal procedures.

If there are any questions, please contact Brian Shinmoto of my staff at (209) 836-6261.

Sincerely,

Ronald H. Silva

for Herbert S. Y. Ng
Acting Area Manager

10/25/94

Enclosures

cc: DAO-435

1. stockpile appears ready for re-use on site.
2. still waiting of M&W installation report.
3. Further overexcavation can take place after other NSTs are removed

McCAMPBELL ANALYTICAL INC.	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622
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Cottle Industries P.O. Box 7 Antioch, CA 94509	Client Project ID: U.S.B.R.; Tracy Pumping Plant	Date Sampled: 08/24/94
	Client Contact: Roy Pantle	Date Received: 08/26/94
	Client P.O.:	Date Extracted: 08/26-08/27/94
		Date Analyzed: 08/27-08/29/94

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with 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) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
40566	W-101	W	12,000,b,c	110	3.5	690	470	99
40567	S-201	S	92,g,d	ND	0.050	ND	0.043	85
40568	S-202	S	4200,b	3.3	9.9	36	73	124 [#]
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak co-elutes 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 are significant; no recognizable pattern; 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.

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 08/27-08/28/94

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.960	2.018	2.03	97	99	2.9
Benzene	0.000	0.176	0.184	0.2	88	92	4.4
Toluene	0.000	0.180	0.184	0.2	90	92	2.2
Ethylbenzene	0.000	0.178	0.186	0.2	89	93	4.4
Xylenes	0.000	0.554	0.574	0.6	92	96	3.5
TPH (diesel)	0	300	300	300	100	100	0.1
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 08/27-08/29/94

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	111.2	102.5	100	111.2	102.5	8.2
Benzene	0	10.2	9.2	10	102.0	92.0	10.3
Toluene	0	10.2	9.5	10	102.0	95.0	7.1
Ethyl Benzene	0	10.2	10	10	102.0	100.0	2.0
Xylenes	0	31.8	30.7	30	106.0	102.3	3.5
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	14700	34200	33400	23700	82	79	2.4

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

2816A cot L6

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7

PACHECO, CA 94553

(510) 798-1820

FAX (510) 798-1822

CHAIN OF CUSTODY RECORD

TURN AROUND TIME:

RUSH 24 HOUR 48 HOUR 5 DAY

REPORT TO: **COTTLE-ENG**

BILL TO: **COTTLE**

COMPANY: **COTTLE ENGINEERING**

P.O. Box 163

ANTIOCH, CA 94509

TELE: 510-798-9935

FAX: 510-798-8928

PROJECT NUMBER:

PROJECT NAME: **U.S.B.R. TRACY PLANT**

PROJECT LOCATION: **U.S.B.R.**

SAMPLER SIGNATURE: *[Signature]*

TRACY PLUMBIQUE PLANT TRACY CA

ANALYSIS REQUEST

OTHER

<input checked="" type="checkbox"/>	MTX & TPH as Gasolene (502/802 & 9015)
<input checked="" type="checkbox"/>	TPH as Diesel (9018)
<input checked="" type="checkbox"/>	Total Petroleum Oil & Grease (8520 ELF/5520 B&F)
<input checked="" type="checkbox"/>	Total Petroleum Hydrocarbons (418.1)
<input checked="" type="checkbox"/>	EPA 601/8010
<input checked="" type="checkbox"/>	EPA 602/8020
<input checked="" type="checkbox"/>	EPA 606/8060
<input checked="" type="checkbox"/>	EPA 608/8080 - PCBs Only
<input checked="" type="checkbox"/>	EPA 621/8210/8210
<input checked="" type="checkbox"/>	EPA 623/8230
<input checked="" type="checkbox"/>	CM - 17 Metals
<input checked="" type="checkbox"/>	EPA - Priority Pollutant Metals
<input checked="" type="checkbox"/>	LEAD (7210.7121/239.2/6010)
<input checked="" type="checkbox"/>	ORGANIC LEAD
<input checked="" type="checkbox"/>	NET

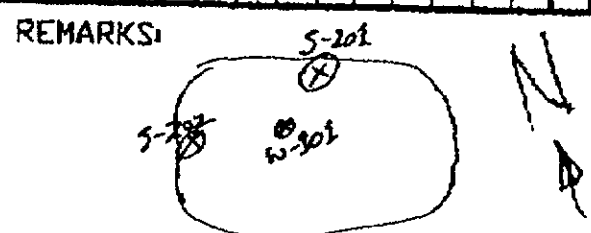
COMMENTS

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED					
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	NO2	OTHER			
W-201	11' center of excav.	8-24-94	1:30P	2	VOA	<input checked="" type="checkbox"/>										
S-201	12' North of excav.	8-24-94	1:40P	1	SLV		<input checked="" type="checkbox"/>									
S-202	13' West of excav.	8-24-94	1:50P	1	SLV		<input checked="" type="checkbox"/>									

40566
40567
40568

RECEIVED BY: *[Signature]*
 PRESERVATIVE APPROPRIATE
 HEAD SPACE ABSENT
 CONTAINERS

RELINQUISHED BY: <i>[Signature]</i>	DATE: 9/26/94	TIME: 11:25 AM	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY LABORATORY:



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

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
41043	BR51 Comp	S	2.2,b	ND	0.006	0.005	0.061	93
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak co-elutes 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 are significant; no recognizable pattern; 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.

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 09/15-09/16/94

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.729	1.974	2.03	85	97	13.2
Benzene	0.000	0.172	0.168	0.2	86	84	2.4
Toluene	0.000	0.178	0.184	0.2	89	92	3.3
Ethylbenzene	0.000	0.174	0.182	0.2	87	91	4.5
Xylenes	0.000	0.540	0.560	0.6	90	93	3.6
TPH (diesel)	0	354	357	300	118	119	1.0
TRPH (oil & grease)	0.0	22.4	22.3	20.8	108	107	0.4

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

