

VAPOR SCIENCES CORP.  
3065 ATLAS Rd.  
SUITE 109A  
RICHMOND, CA.  
94806

Tel: (415) 524 0827  
FAX: (415) 223 9782

June 8, 1990

Tulloch Construction Inc.  
3428 Ettie Street  
Oakland, Ca. 94608

Attn: William Wendland

Sampled: 5/16/90  
Analyzed: 5/22/90 - 5/31/90

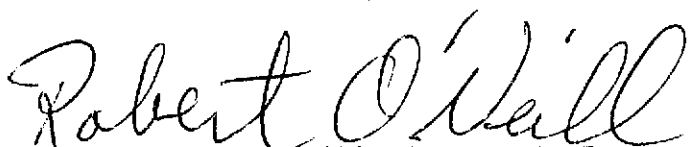
Site: 3428 Ettie Street Grab Samples from Excavation 9.5'B/D

Laboratory: TRACE ANALYSIS  
Log Number: 8690

SAMPLE	SAMPLE TYPE:		ALL CONCENTRATIONS ppm
	#1.	#2.	
<u>METHOD</u>			
DHS-TPH GASOLINE	ND	ND	
EPA 8020 BENZENE	ND	ND	
TOLUENE	ND	ND	
XYLENES	ND	ND	
ETHYL BENZENE	ND	ND	
DHS Method Organic Lead	ND	N/A	
<u>ND = NOT DETECTED</u>	<u>N/A = NOT ANALYZED</u>		

DETECTION LIMITS

TPH = 0.7    BENZENE = 0.05    TOLUENE = 0.06    XYLENES = 0.2  
ETHYL BENZENE = 0.08    Organic Lead = 1.0

  
R. S. O'Neill Vapor Science

VAPOR SCIENCES CORP.  
3065 ATLAS Rd.  
SUITE 109A  
RICHMOND, CA.  
94806

Tel: (415) 524 0827  
FAX: (415) 223 9782

June 8, 1990

Tulloch Construction Inc.  
3428 Ettie Street  
Oakland, Ca. 94608

Attn: William Wendland

Sampled: 5/16/90  
Analyzed: 5/22/90 - 5/31/90

Site: 3428 Ettie Street Grab Samples from Excavation 9.5'B/D

Laboratory: TRACE ANALYSIS  
Log Number: 8690

METHOD	SAMPLE TYPE:	
	#1.	#2. ALL CONCENTRATIONS ppm
DHS-TPH GASOLINE	ND	ND
EPA 8020 BENZENE	ND	ND
TOLUENE	ND	ND
XYLENES	ND	ND
ETHYL BENZENE	ND	ND
DHS Method Organic Lead	ND	N/A

ND = NOT DETECTED

N/A = NOT ANALYZED

DETECTION LIMITS

TPH = 0.7 BENZENE = 0.05 TOLUENE = 0.06 XYLENES = 0.2  
ETHYL BENZENE = 0.08 Organic Lead = 1.0

  
R. S. O'Neill Vapor Science

VAPOR SCIENCES CORP.  
3065 ATLAS Rd.  
SUITE 109A  
RICHMOND, CA.  
94806

Tel: (415) 524 0827  
FAX: (415) 223 9782

June 8, 1990

Tulloch Construction Inc.  
3428 Ettie Street  
Oakland, Ca. 94608

Attn: William Wendland

Sampled: 5/16/90  
Analyzed: 5/22/90 - 5/31/90

Site: 3430 Hannah Street Composite Samples 3/1  
(Excavated Soil)  
Laboratory: TRACE ANALYSIS  
Log Number: 8689

METHOD	SAMPLE TYPE: SOIL		ALL CONCENTRATIONS ppm
	SAMPLE #A.	#B.	
DHS-TPH GASOLINE	0.91	1,300	
EPA 8020 BENZENE	ND	14	
TOLUENE	ND	170	
XYLENES	ND	310	
ETHYL BENZENE	ND	47	
DHS Method Organic Lead	ND	ND	

ND = NOT DETECTED

DETECTION LIMITS

TPH = 0.7/3    BENZENE = 0.05/0.2    TOLUENE = 0.06/0.2    XYLENES =  
0.2/1    ETHYL BENZENE = 0.08/0.3

  
R. S. O'Neill Vapor Science

VAPOR SCIENCES CORP.  
 3065 ATLAS Rd.  
 SUITE 109A  
 RICHMOND, CA.  
 94806

Tel: (415) 524 0827  
 FAX: (415) 223 9782

June 8, 1990

Tulloch Construction Inc.  
 3428 Ettie Street  
 Oakland, Ca. 94608

Attn: William Wendland

Sampled: 5/16/90  
 Analyzed: 5/22/90 - 5/31/90

Site: 3430 Hannah Street Composite Samples 3/1  
 (Excavated Soil)  
 Laboratory: TRACE ANALYSIS  
 Log Number: 8689

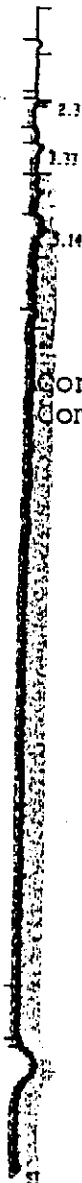
METHOD	SAMPLE TYPE: SOIL		ALL CONCENTRATIONS ppm
	SAMPLE #A.	#B.	
DHS-TPH GASOLINE	0.91	1,300	
EPA 8020 BENZENE	ND	14	
TOLUENE	ND	170	
XYLENES	ND	310	
ETHYL BENZENE	ND	47	
DHS Method Organic Lead	ND	ND	

ND = NOT DETECTED

DETECTION LIMITS

TPH = 0.7/3    BENZENE = 0.05/0.2    TOLUENE = 0.06/0.2    XYLENES =  
 0.2/1    ETHYL BENZENE = 0.08/0.3

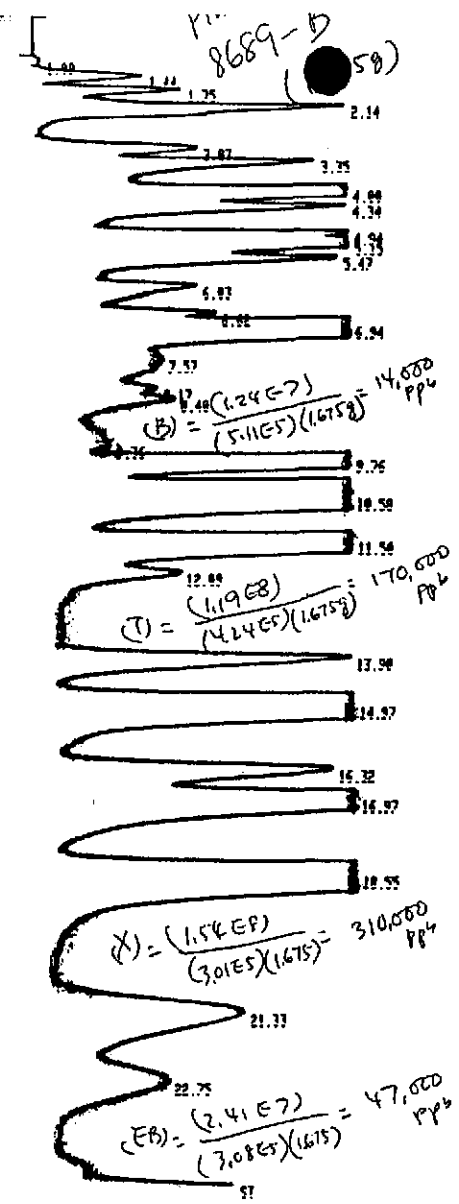
*Robert O'Neill*  
 R. S. O'Neill Vapor Science



Pin  
8689-A  
6.3689

Confirmation of Analyses  
Component Confirmation

N/D



DIN # 628 MAY/22/90 09:23:28  
WORKFILE ID: B  
WORKFILE NAME:

AREA#	RT	AREA TYPE	AR/HT	AREA%
	3.37	55696 PB	0.219	26.213
	5.14	156530 BB	0.353	73.787

TOTAL AREA= 212170  
MUL FACTOR= 1.0000E+00

DIN # 629 MAY/22/90 09:58:36  
WORKFILE ID: B  
WORKFILE NAME:

AREA#	RT	AREA TYPE	AR/HT	AREA%
	1.44	966070 VV	0.200	0.227
	1.75	1157100 VV	0.175	0.271
	2.14	3020200 VV	0.211	0.710
	3.03	1945600 VV	0.265	0.456
	3.75	4014700 VV	0.720	0.941
B	4.00	1.2422E+07 VV	0.192	2.910
	4.34	3747600 VV	0.270	0.870
	4.94	2018600 VV	0.189	0.660
	5.15	5502500 VV	0.247	1.200
	5.47	3602100 VV	0.268	0.844
	6.07	2777200 VV	0.796	0.651
	6.62	1703000 VV	0.213	0.399
T	6.94	1.1951E+08 ISM	0.254	27.767
	7.57	153960 TVV	0.194	0.076
	8.17	310130 TVV	0.177	0.075
	8.40	760500 TVP	0.246	0.170
	9.36	501530 TPV	0.410	0.110
EB	9.76	2.4061E+07 TVV	0.197	5.637
	10.50	1.1552E+00 TVV	0.701	27.065
X	11.50	3.0650E+07 TVV	0.243	9.055
	12.00	1647200 TVV	0.325	0.306
	13.00	4200100 TPV	0.331	1.007
	14.97	2.4715E+07 TVV	0.400	5.701
	16.32	4055600 TVV	0.397	1.130
	16.97	1.2604E+07 TVV	0.466	2.953
	18.55	2.5761E+07 TVV	0.506	6.036
	21.33	6005200 TPV	0.870	1.610
	22.75	7065200 TVP	0.799	0.906

TOTAL AREA= 4.2601E+00  
MUL FACTOR= 1.0000E+00

VAPOR SCIENCES 3065 Atlas Rd. #109 Job number  
 Richmond, Ca. 94806

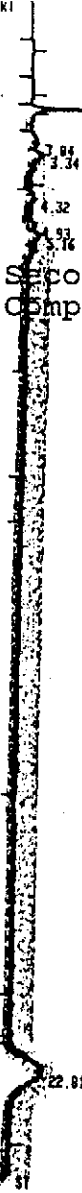
Project name **B428 Etie St. OAKLAND, CA**  
 Project manager **R. O'Neill** Sampler(s) **Robert O'Neill**

Sample number	Date sampled	Time sampled	Type Composite or Grab	Sample description	Number of containers	Analyses required							Remarks
						TPH As Gasoline	BTEX-E LOFT	Organic Lead	Org Pb	5/17/90	Hazardous sample Special handling required		
1.	5/16/90	9:55	G	Soil/TANK EXCAVATION from 9'-2' depth center / under tank location	1	✓	✓	✓	✓				Chromatograms to Accompany Report Report Secondary Column Results
2.	5/16/90	9:40	G	soil/TANK EXCAVATION 9'-6" depth / center / under tank location	1	✓	✓	✓	✓				10 @ Al / Ford

Relinquished by	Signature	Company	Date	Time
Relinquished by	<i>Robert O'Neill</i>	V/S - Defacto Labs	5/17/90	5:35pm
Received by	<i>Louie Du Pui</i>	Trace Analysis Laboratory	5/17/90	5:35pm
Relinquished by				
Received by				
Relinquished by				
Received by				

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.  
 Hazardous samples will be returned to client or disposed

START



Fin 8689-A  
(6.3689)

Second Column Confirmation  
Component Confirmation

YES  
(6.8724)(6.3689) = 910 ppb

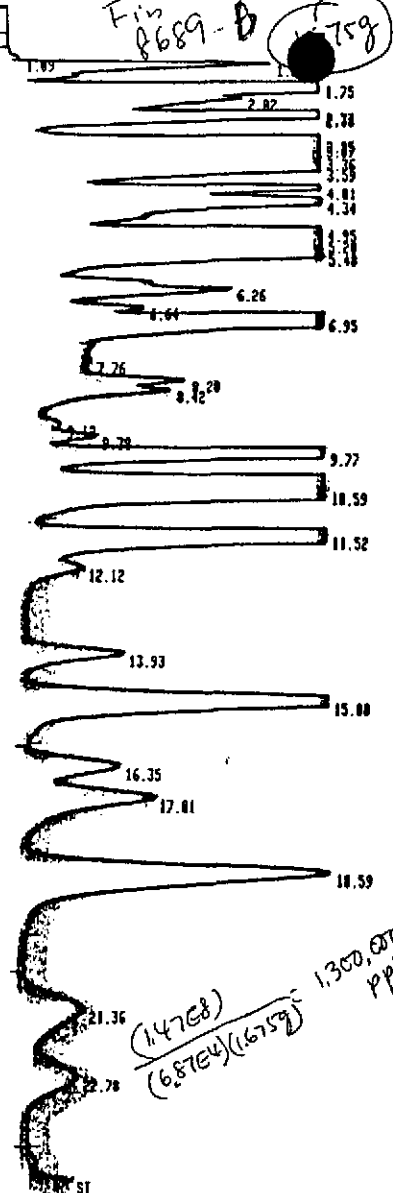
RUN # 626  
WORKFILE ID: C  
WORKFILE NAME:

MAY/22/90 08:24:15

AREA#	RT	AREA	TYPE	AR/HT	AREA%
2-32	2.32	168428	PB	0.045	11.219
3.04	3.04	71962	BV	0.251	4.794
3.34	3.34	129288	VB	0.235	8.612
4.32	4.32	49556	BV	0.261	3.381
4.93	4.93	48188	VV	0.159	2.672
5.16	5.16	188758	VV	0.234	7.245
22-81	22.81	933888	BB	0.658	62.157

TOTAL AREA= 1501288  
MUL FACTOR= 1.0000E+00

START



Fin 8689-B (6.759)

(1.4768)  
(6.8724)(6.759) = 1,350,000 ppb

RUN # 627  
WORKFILE ID: C  
WORKFILE NAME:

MAY/22/90 08:59:23

AREA#	RT	AREA	TYPE	AR/HT	AREA%
1-09	1.09	33828	PV	0.059	0.821
1-22	1.22	1929888	VV	0.167	1.197
1-75	1.75	6584288	VV	0.216	4.883
2-02	2.02	1896188	VV	0.193	1.176
2-33	2.33	1699688	VV	0.066	1.054
2-38	2.38	3763888	VV	0.139	2.334
2-95	2.95	4298688	VV	0.141	2.666
3-07	3.07	6472888	VV	0.196	4.814
3-36	3.36	8679388	VV	0.238	5.382
3-59	3.59	2687288	VV	0.168	1.666
4-01	4.01	3168188	VV	0.184	1.968
4-34	4.34	5485788	VV	0.391	3.352
4-95	4.95	2356188	VV	0.171	1.461
5-28	5.28	6579988	VV	0.247	4.888
5-48	5.48	5887788	VP	0.214	3.155
6-26	6.26	1917588	PP	0.274	1.189
6-64	6.64	424928	PV	0.155	0.264
6-95	6.95	2.6582E+07	VB	0.188	16.484
7-76	7.76	72581	VV	0.165	0.045
8-20	8.20	1141288	VV	0.216	0.788
8-42	8.42	1188388	VP	0.225	0.687
9-12	9.12	127658	PV	0.177	0.079
9-38	9.38	472138	VV	0.264	0.293
9-77	9.77	6688188	VV	0.287	4.898
10-59	10.59	2.6862E+07	VB	0.299	16.658
11-52	11.52	1.8883E+07	BV	0.261	6.749
12-12	12.12	669318	VP	0.312	0.415
13-93	13.93	1419988	VP	0.331	0.881
15-00	15.00	7155988	PB	0.424	4.438
16-35	16.35	1688988	BV	0.394	0.993
17-01	17.01	2714188	VP	0.482	1.683
18-59	18.59	7882688	PB	0.514	4.343
21-36	21.36	2158988	BV	0.829	1.339
22-78	22.78	1783188	VB	0.758	1.856

TOTAL AREA= 1.6126E+08  
MUL FACTOR= 1.0000E+00

VAPOR SCIENCES 3065 Atlas Rd. #109 Job number  
 Richmond, Ca. 94806

Project name **3430 HANNAH ST, OAKLAND, CA.**  
 Project manager **R. O'Neill** Sampler(s)

Analyses required  
 BTEX-E-LOEF  
 TPH-GASOLINE  
 Org Pb 5/22/90  
 Hazardous sample  
 Special handling required

Sample number	Date sampled	Time sampled	Type Composite or Grab	Sample description	Number of containers	Analyses required						Remarks	
A.	5/16/90	10:45	C	Composite - soil from Excavation that had been Relocated to a pile	1	V	V	V					Chromatograms to Accompany Report  Report Secondary Column Results
B.	5/16/90	11:15	C	" " "	1	V	V	V					10-day turn
				Composited 3-into-1 on 5/17/90 1:45 PM									

Relinquished by	Signature	Company	Date	Time
Relinquished by	<i>Robert O'Neill</i>	V/S - Objecto-Jabs	5/17/90	6:09 PM
Received by	<i>Louis Dupuis</i>	Trace Analysis Laboratory	5/17/90	6:00 PM
Relinquished by				
Received by				
Relinquished by				
Received by				

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.  
 Hazardous samples will be returned to client or disposed of at client expense.



VAPOR SCIENCES

3065 Atlas Rd. #109  
Richmond, Ca. 94806

Job number

8689

Project name: 3430 HANNAH ST., OAKLAND, CA.

Project manager: R. O'Neill

Sampler(s)

Sample number	Date sampled	Time sampled	Type Composite or Grab	Sample description	Number of containers
A.	5/16/90	10:45	C	Composite - soil from Excavation that had been Relocated to a pile	1
B.	5/16/90	11:15	C	Composite - 3-into-1 ON 5/17/90 1:45 PM	1

Analy						Remarks	
BTEX-E-KOPEX	TAH-GASOLINE	Org Ph				Hazardous sample Special handling required	
V	V	V				Chromatograms to accompany Report	
						Report Secondary Column Results	
						10-day turnaround	
						Org Ph analysis added on as per Mr O'Neill's verbal instructions at 9:25 AM 5/22/90	

Relinquished by	Signature	Company	Date	Time
Relinquished by	Robert O'Neill	V/S - Olfacto Labs	5/17/90	6:09 PM
Received by	Louie Dan Puri	Trace Analysis Laboratory	5/17/90	6:00 PM
Relinquished by				
Received by				
Relinquished by				
Received by				

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.  
Hazardous samples will be returned to client or disposed