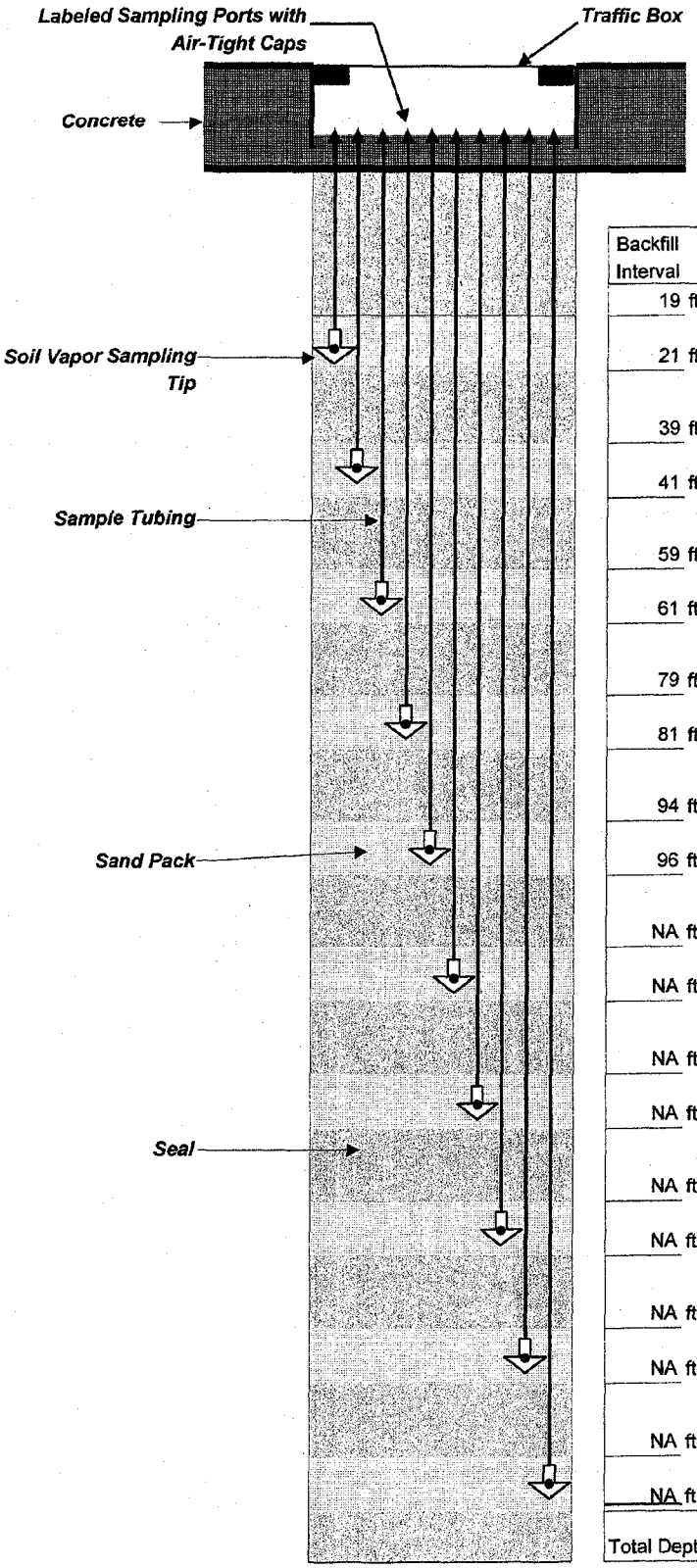
Previous

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 24

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1125.0



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
39 ft.	
41 ft.	40 ft.
59 ft.	
61 ft.	60 ft.
79 ft.	
81 ft.	80 ft.
94 ft.	
96 ft.	95 ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
Total Dept	100 ft.

DRILLING SUMMARY

DATE COMPLETED: 10/16/94

DRILLING COMPANY: Beylik Drilling

DRILLING RIG TYPE: Percussion Hammer

TOTAL DEPTH DRILLED: 100 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 10 inches

TOTAL NO. OFSAMPLING PORTS: 5

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

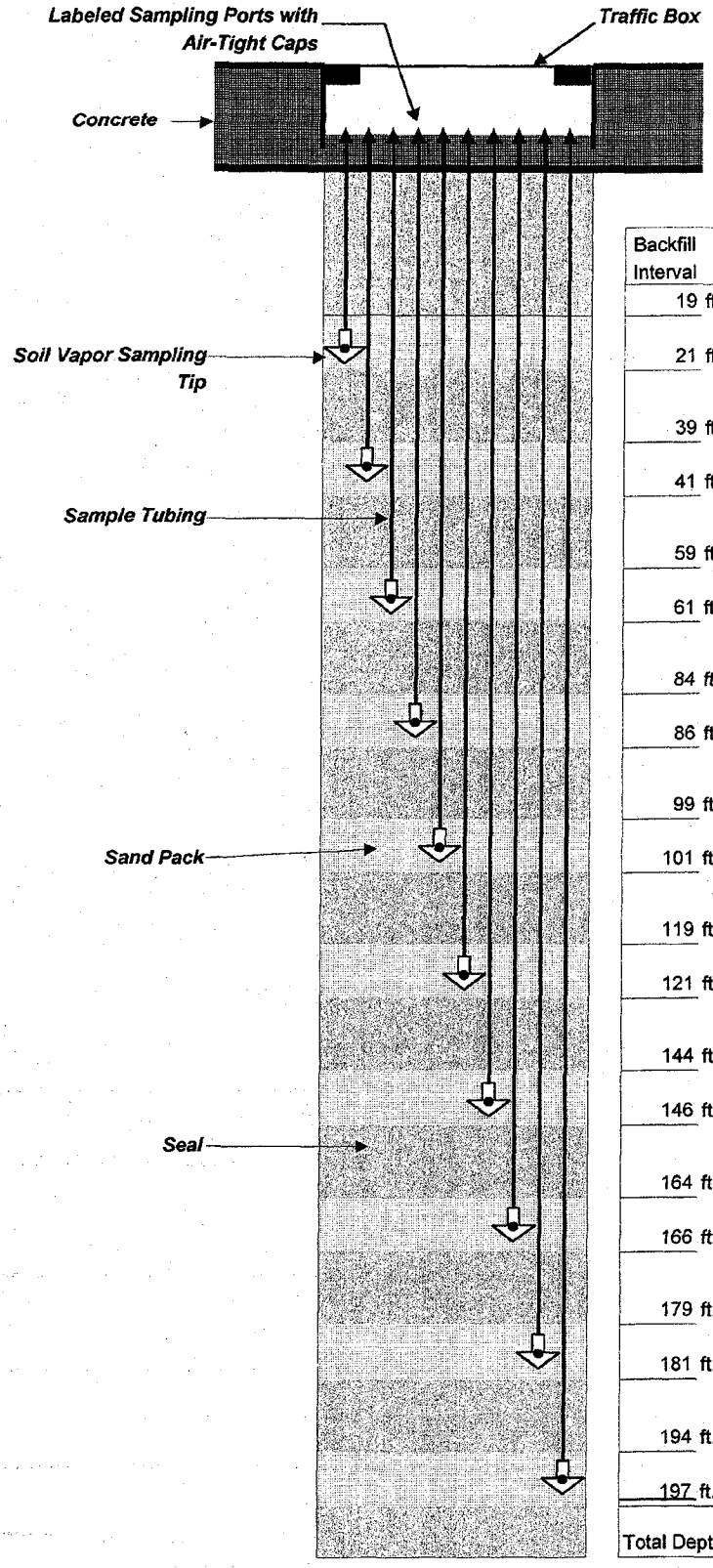
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 25

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1199.6



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
39 ft.	
41 ft.	40 ft.
59 ft.	
61 ft.	60 ft.
84 ft.	
86 ft.	85 ft.
99 ft.	
101 ft.	100 ft.
119 ft.	
121 ft.	120 ft.
144 ft.	
146 ft.	145 ft.
164 ft.	
166 ft.	165 ft.
179 ft.	
181 ft.	180 ft.
194 ft.	
197 ft.	195 ft.
Total Dept	202 ft.

DRILLING SUMMARY

DATE COMPLETED: 3/31/97

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 202 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 10

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

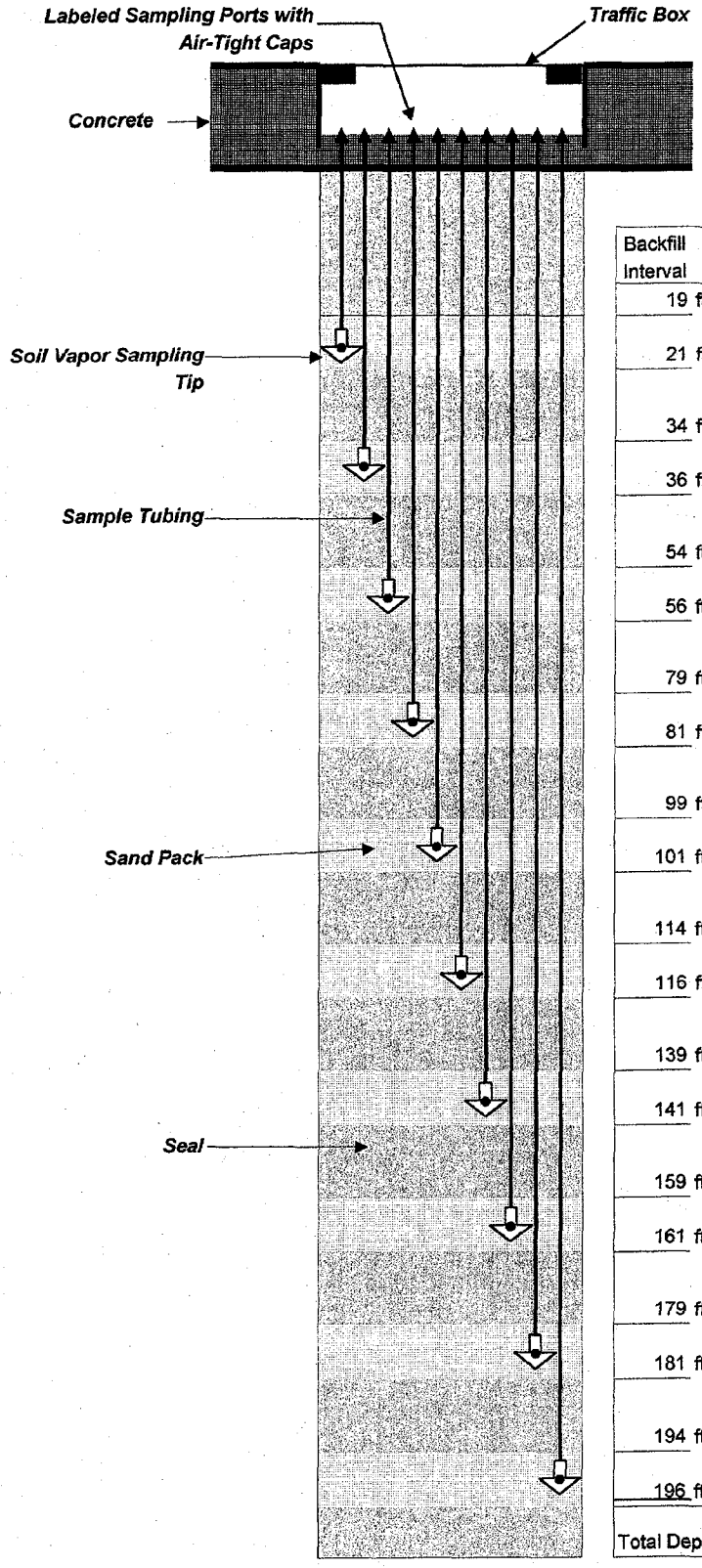
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 26

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1201.8



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
34 ft.	
36 ft.	35 ft.
54 ft.	
56 ft.	55 ft.
79 ft.	
81 ft.	80 ft.
99 ft.	
101 ft.	100 ft.
114 ft.	
116 ft.	115 ft.
139 ft.	
141 ft.	140 ft.
159 ft.	
161 ft.	160 ft.
179 ft.	
181 ft.	180 ft.
194 ft.	
196 ft.	195 ft.
Total Dept	204 ft.

DRILLING SUMMARY

DATE COMPLETED: 3/28/97

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 204 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 10

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

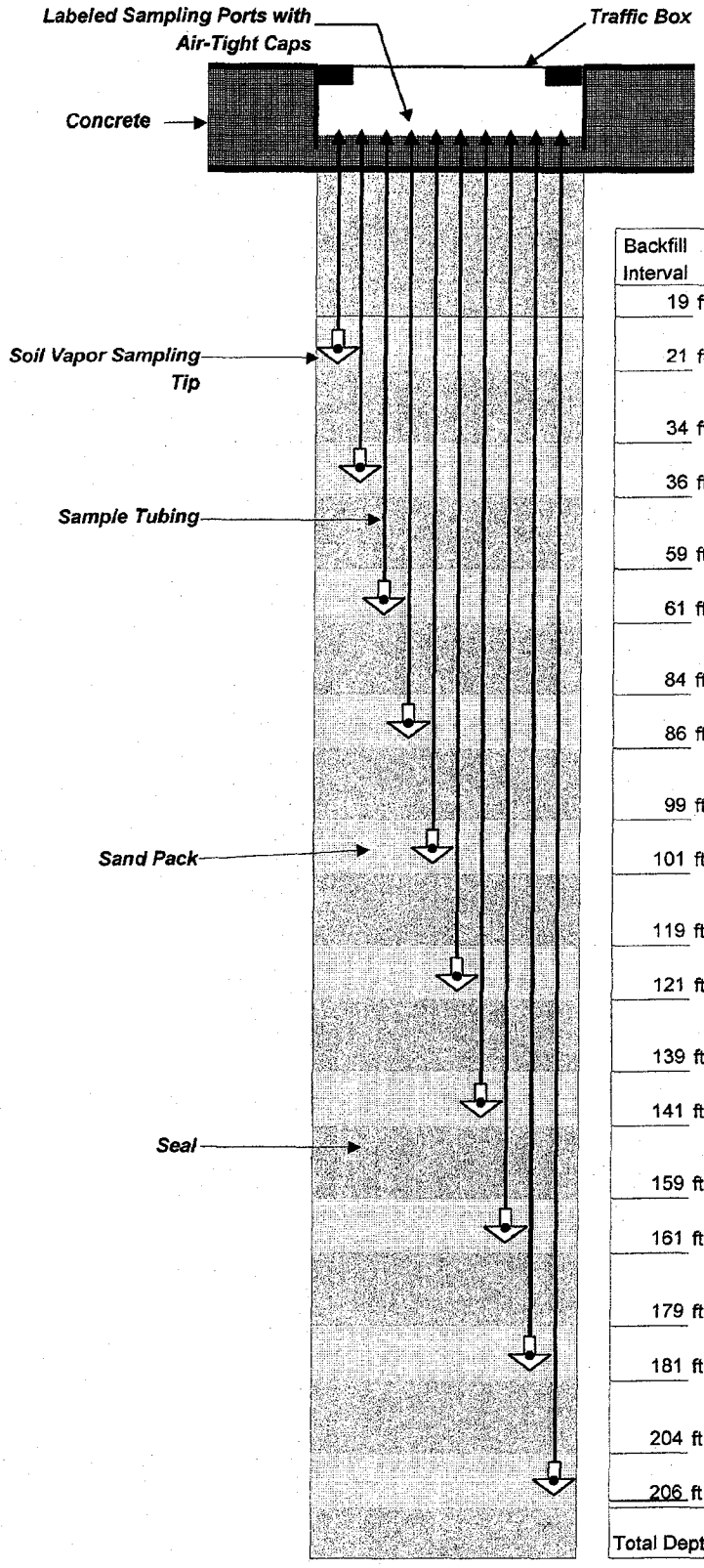
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 27

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1214.2



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
34 ft.	
36 ft.	35 ft.
59 ft.	
61 ft.	60 ft.
84 ft.	
86 ft.	85 ft.
99 ft.	
101 ft.	100 ft.
119 ft.	
121 ft.	120 ft.
139 ft.	
141 ft.	140 ft.
159 ft.	
161 ft.	160 ft.
179 ft.	
181 ft.	180 ft.
204 ft.	
206 ft.	205 ft.
Total Dept	214 ft.

DRILLING SUMMARY

DATE COMPLETED: 3/18/97

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 214 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 10

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

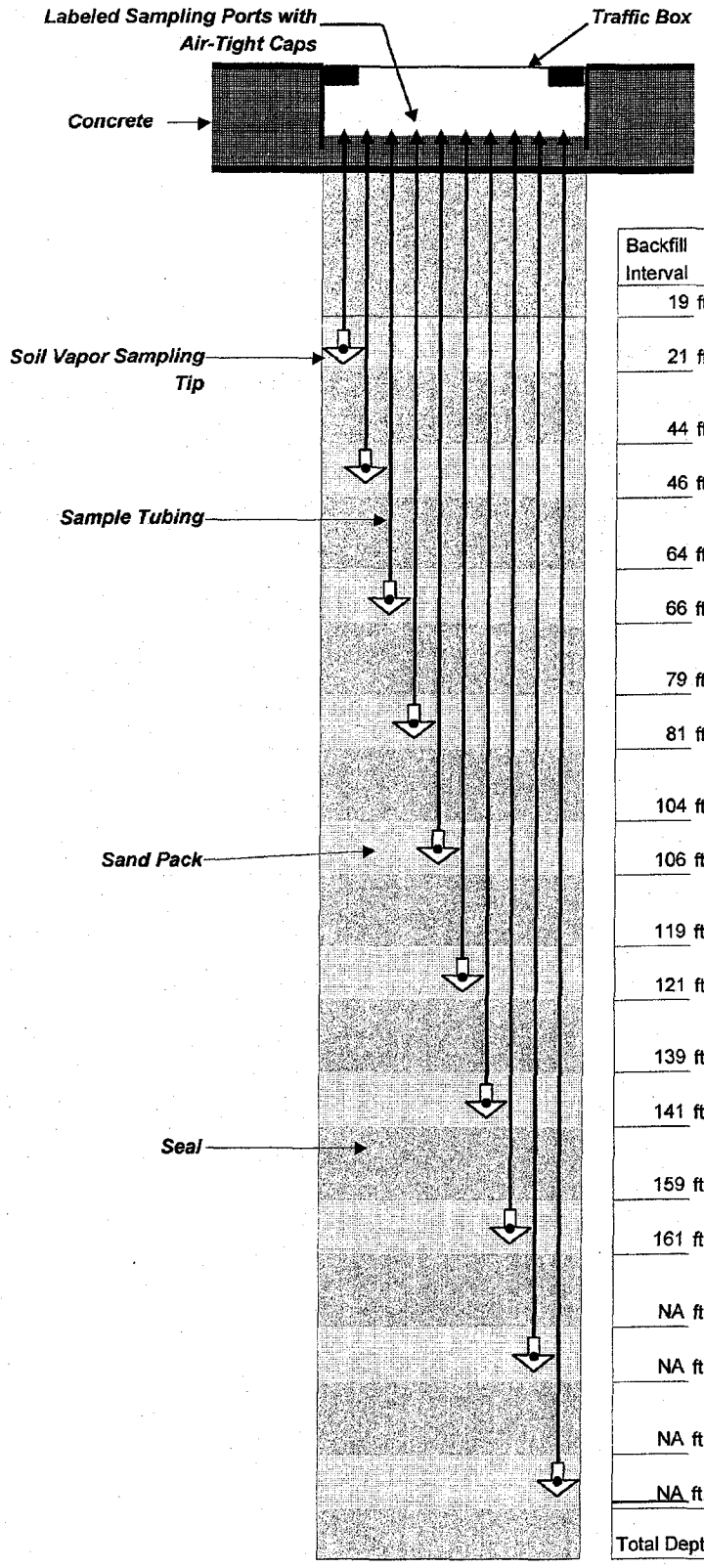
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 28

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1176.7



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
44 ft.	
46 ft.	45 ft.
64 ft.	
66 ft.	65 ft.
79 ft.	
81 ft.	80 ft.
104 ft.	
106 ft.	105 ft.
119 ft.	
121 ft.	120 ft.
139 ft.	
141 ft.	140 ft.
159 ft.	
161 ft.	160 ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
Total Dept	179 ft.

DRILLING SUMMARY

DATE COMPLETED: 3/14/97

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 179 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 8

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

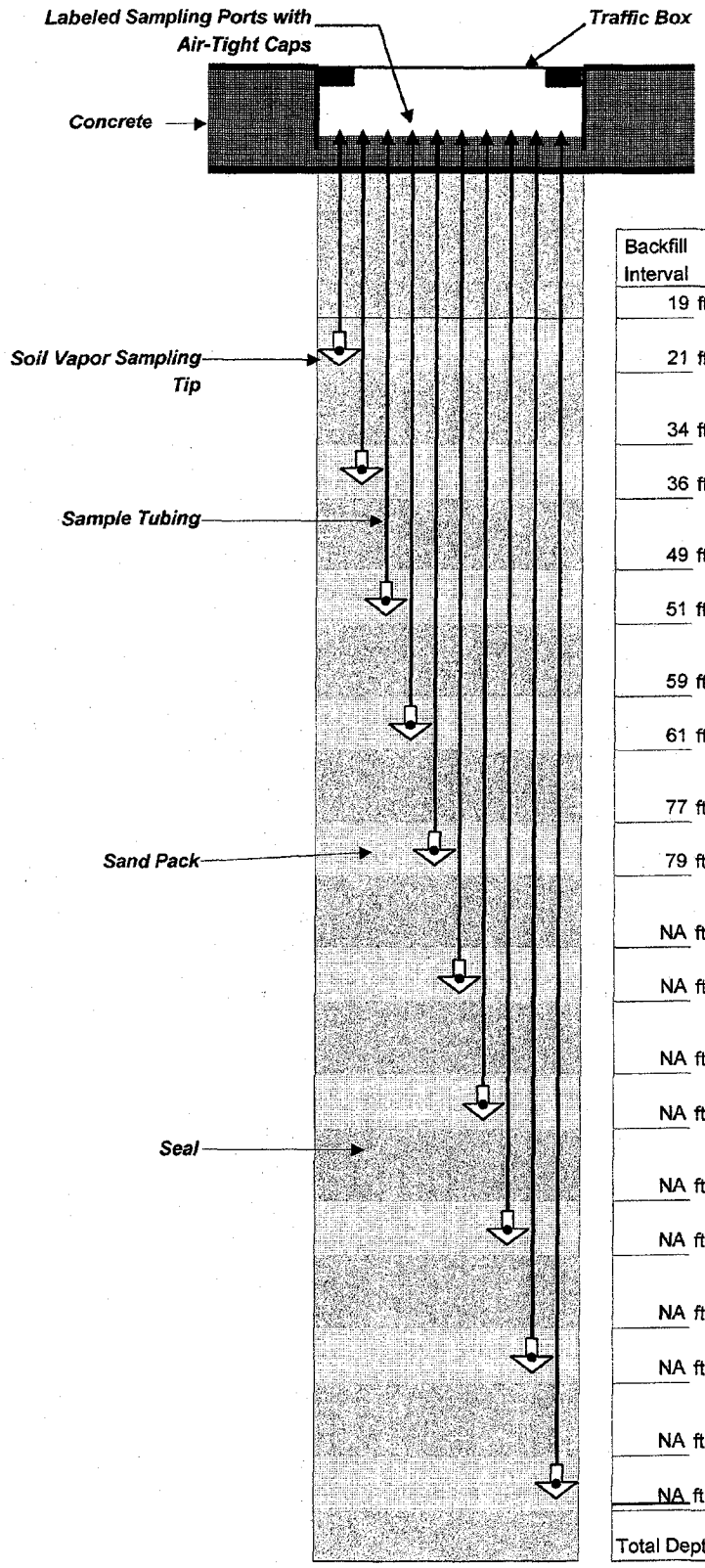
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 29

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1086.8



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
34 ft.	
36 ft.	35 ft.
49 ft.	
51 ft.	50 ft.
59 ft.	
61 ft.	60 ft.
77 ft.	
79 ft.	78 ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
Total Dept	83 ft.

DRILLING SUMMARY

DATE COMPLETED: 4/12/97

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 83 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 5

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

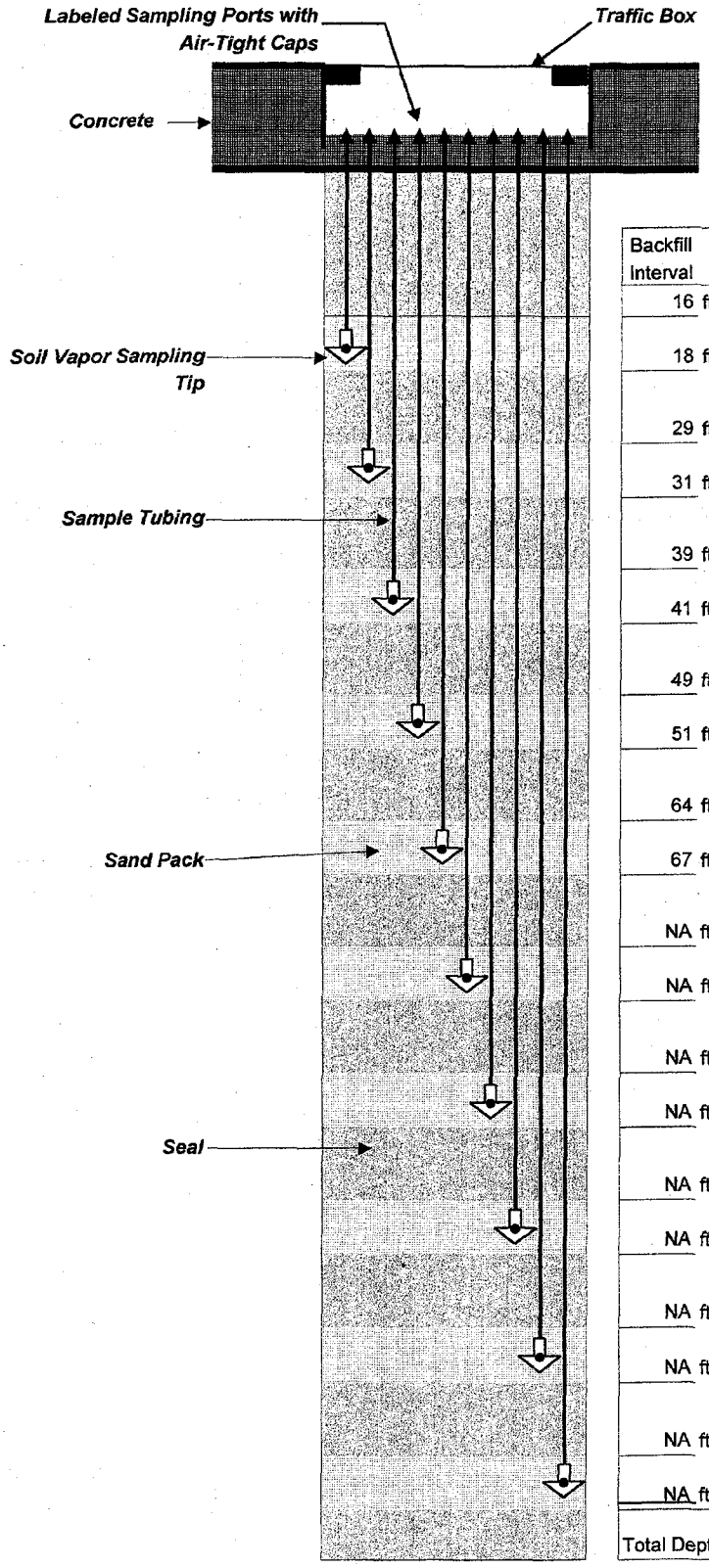
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 30

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1088.9



Backfill Interval	Sampling Depth
16 ft.	
18 ft.	17 ft.
29 ft.	
31 ft.	30 ft.
39 ft.	
41 ft.	40 ft.
49 ft.	
51 ft.	50 ft.
64 ft.	
67 ft.	65 ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
Total Dept	72 ft.

DRILLING SUMMARY

DATE COMPLETED: 4/2/97

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 72 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 5

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

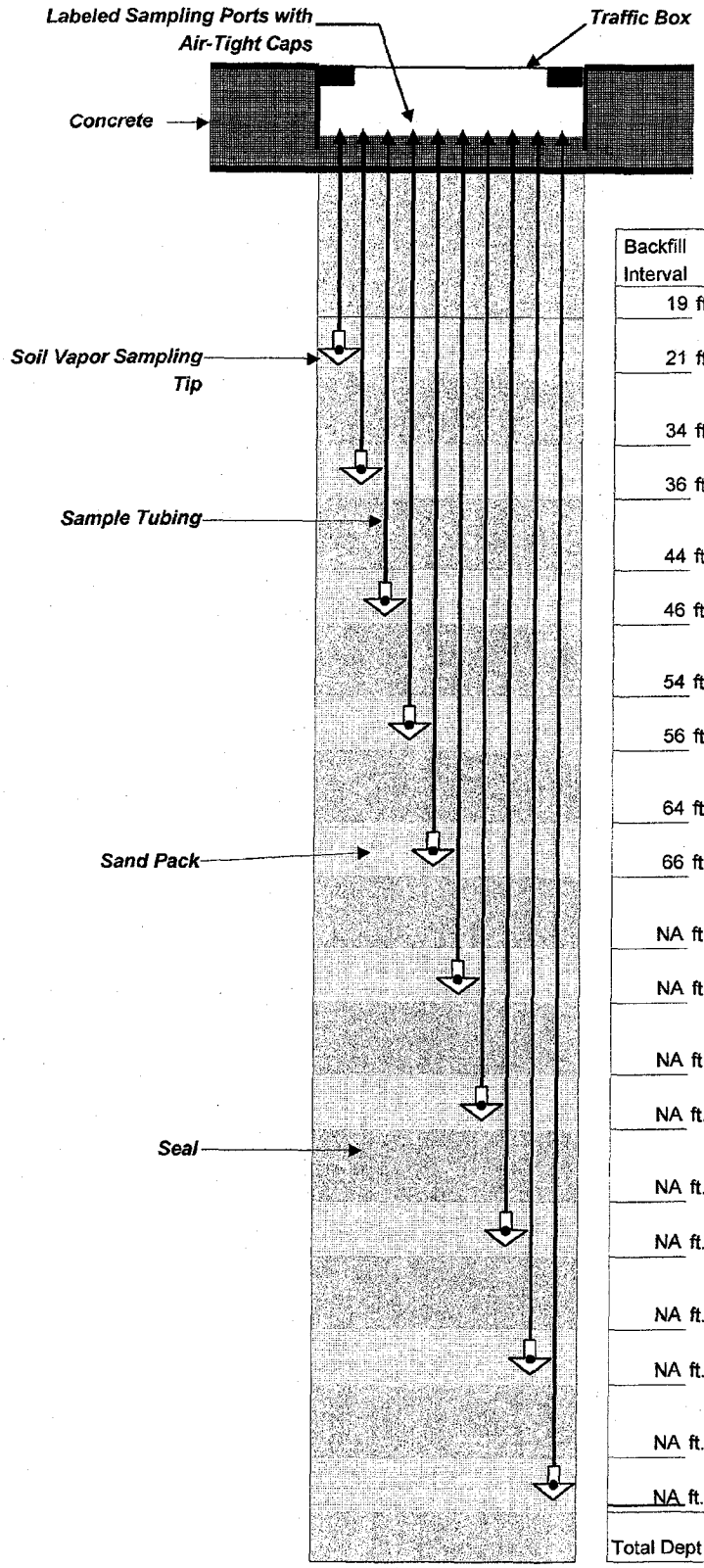
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 31

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1083.1



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
34 ft.	
36 ft.	35 ft.
44 ft.	
46 ft.	45 ft.
54 ft.	
56 ft.	55 ft.
64 ft.	
66 ft.	65 ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
Total Dept	73 ft.

DRILLING SUMMARY

DATE COMPLETED: 4/9/97

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 73 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 5

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

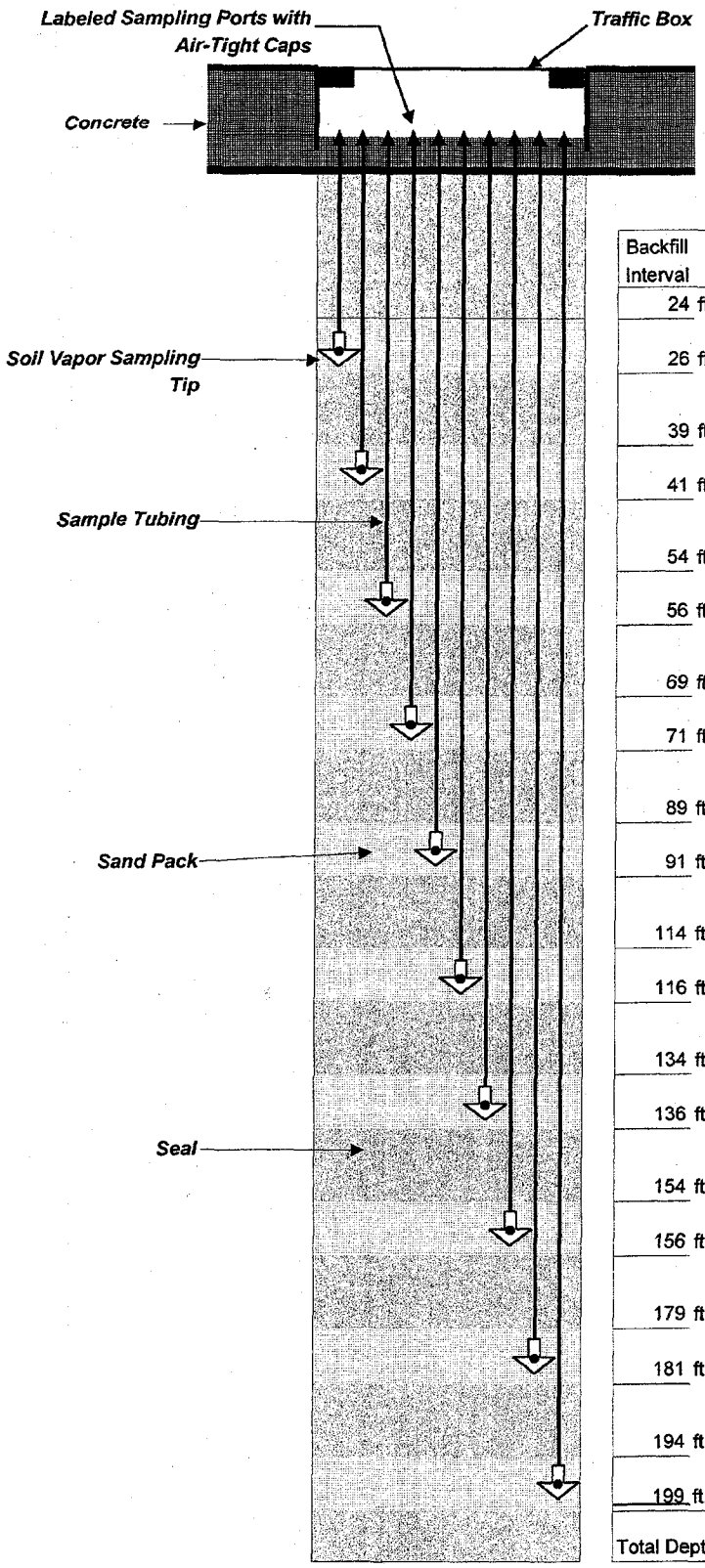
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 32

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1206.6



Backfill Interval	Sampling Depth
24 ft.	
26 ft.	25 ft.
39 ft.	
41 ft.	40 ft.
54 ft.	
56 ft.	55 ft.
69 ft.	
71 ft.	70 ft.
89 ft.	
91 ft.	90 ft.
114 ft.	
116 ft.	115 ft.
134 ft.	
136 ft.	135 ft.
154 ft.	
156 ft.	155 ft.
179 ft.	
181 ft.	180 ft.
194 ft.	
199 ft.	195 ft.
Total Depth	210 ft.

DRILLING SUMMARY

DATE COMPLETED: 3/29/98

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 210 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 10

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

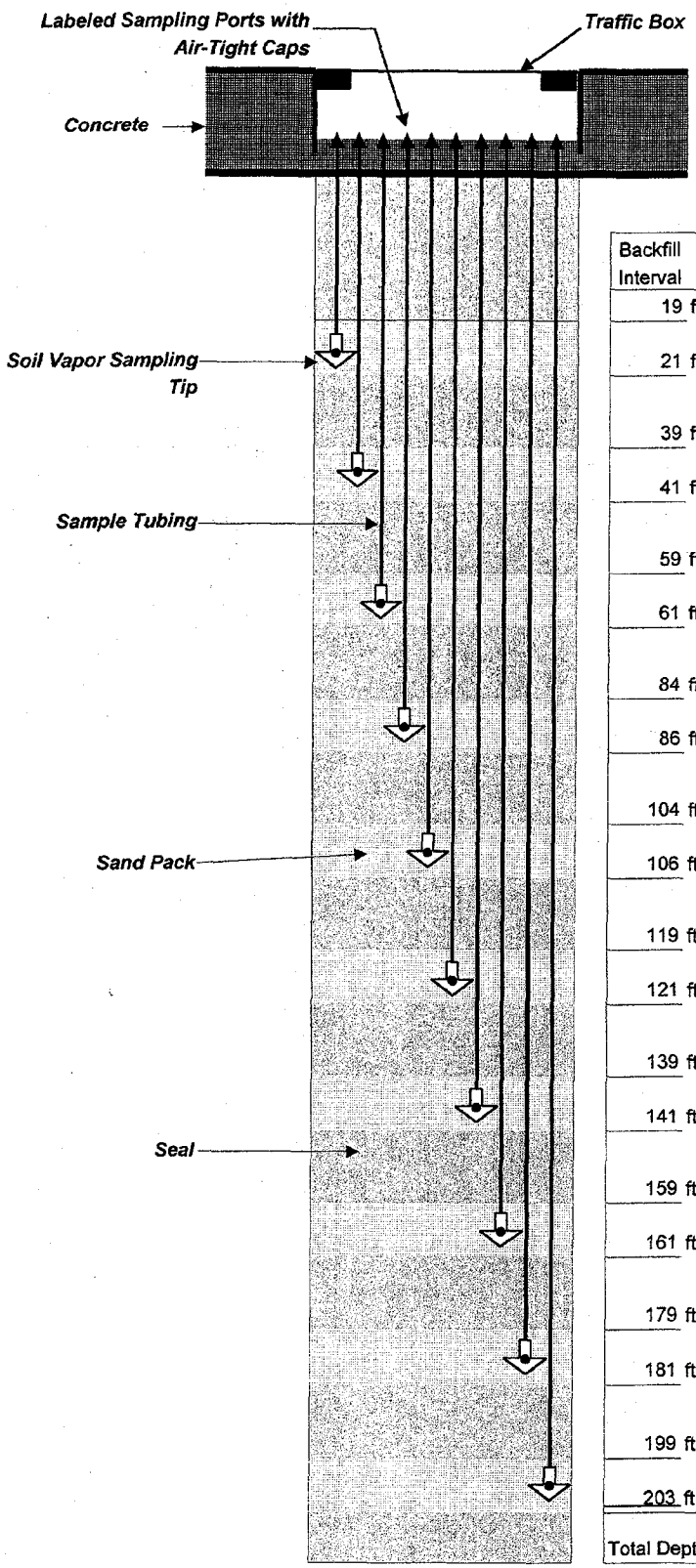
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 33

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1214.0



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
39 ft.	
41 ft.	40 ft.
59 ft.	
61 ft.	60 ft.
84 ft.	
86 ft.	85 ft.
104 ft.	
106 ft.	105 ft.
119 ft.	
121 ft.	120 ft.
139 ft.	
141 ft.	140 ft.
159 ft.	
161 ft.	160 ft.
179 ft.	
181 ft.	180 ft.
199 ft.	
203 ft.	200 ft.
Total Depth	213 ft.

DRILLING SUMMARY

DATE COMPLETED: 4/1/98

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 213 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 10

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

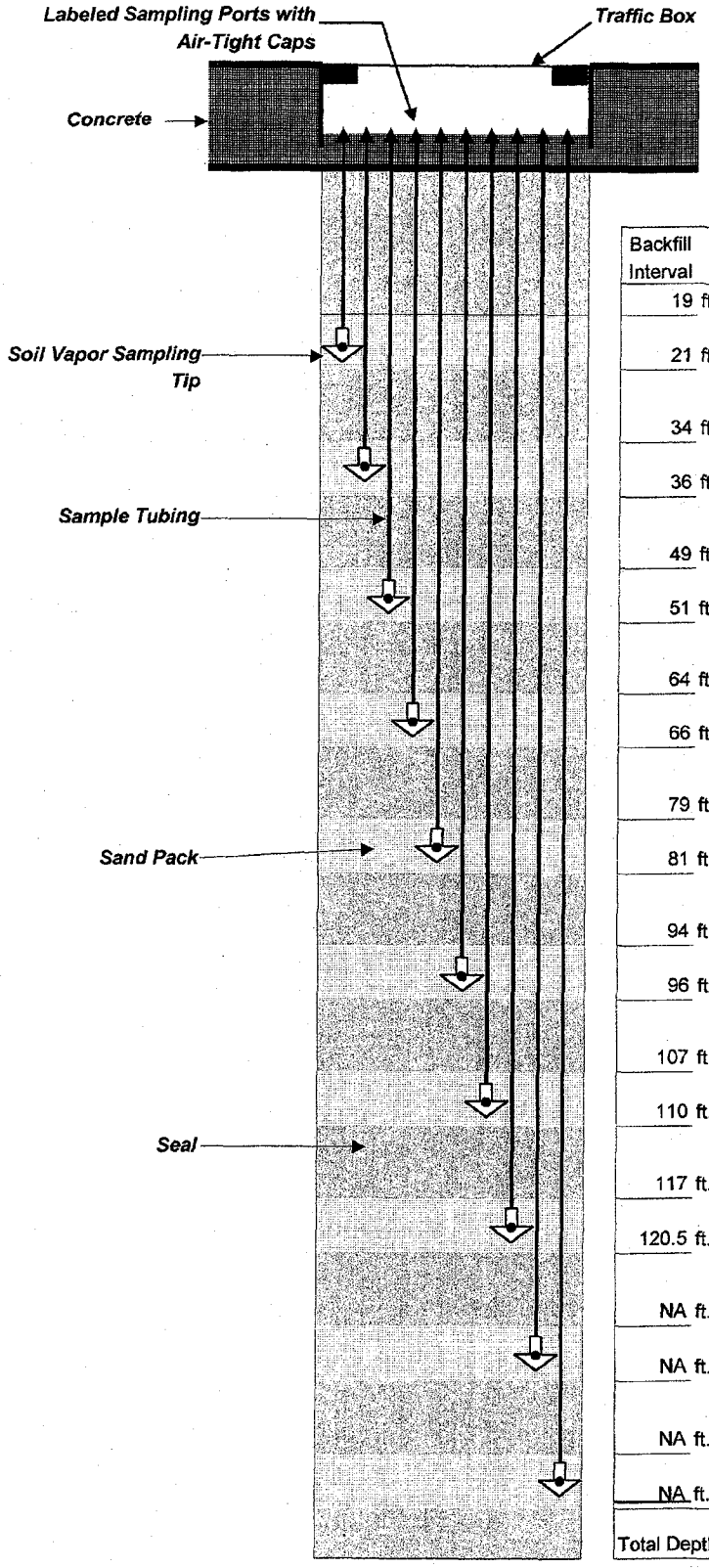
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 34

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1164.3



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
34 ft.	
36 ft.	35 ft.
49 ft.	
51 ft.	50 ft.
64 ft.	
66 ft.	65 ft.
79 ft.	
81 ft.	80 ft.
94 ft.	
96 ft.	95 ft.
107 ft.	
110 ft.	108 ft.
117 ft.	
120.5 ft.	118 ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
Total Depth	135 ft.

DRILLING SUMMARY

DATE COMPLETED: 4/8/98

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 135 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 8

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

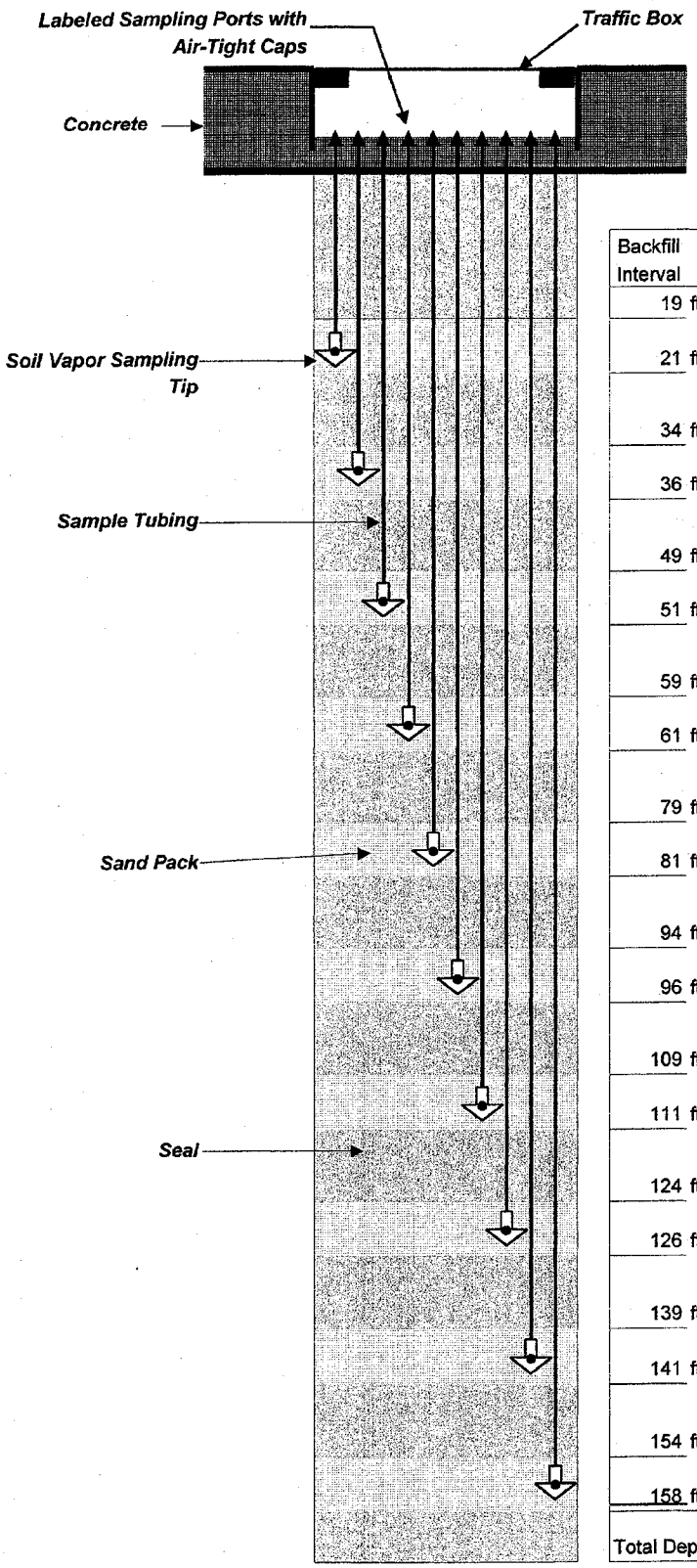
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 35

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1183.2



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
34 ft.	
36 ft.	35 ft.
49 ft.	
51 ft.	50 ft.
59 ft.	
61 ft.	60 ft.
79 ft.	
81 ft.	80 ft.
94 ft.	
96 ft.	95 ft.
109 ft.	
111 ft.	110 ft.
124 ft.	
126 ft.	125 ft.
139 ft.	
141 ft.	140 ft.
154 ft.	
158 ft.	155 ft.
Total Depth	161.8 ft.

DRILLING SUMMARY

DATE COMPLETED: 4/14/98

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 161.8 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 10

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

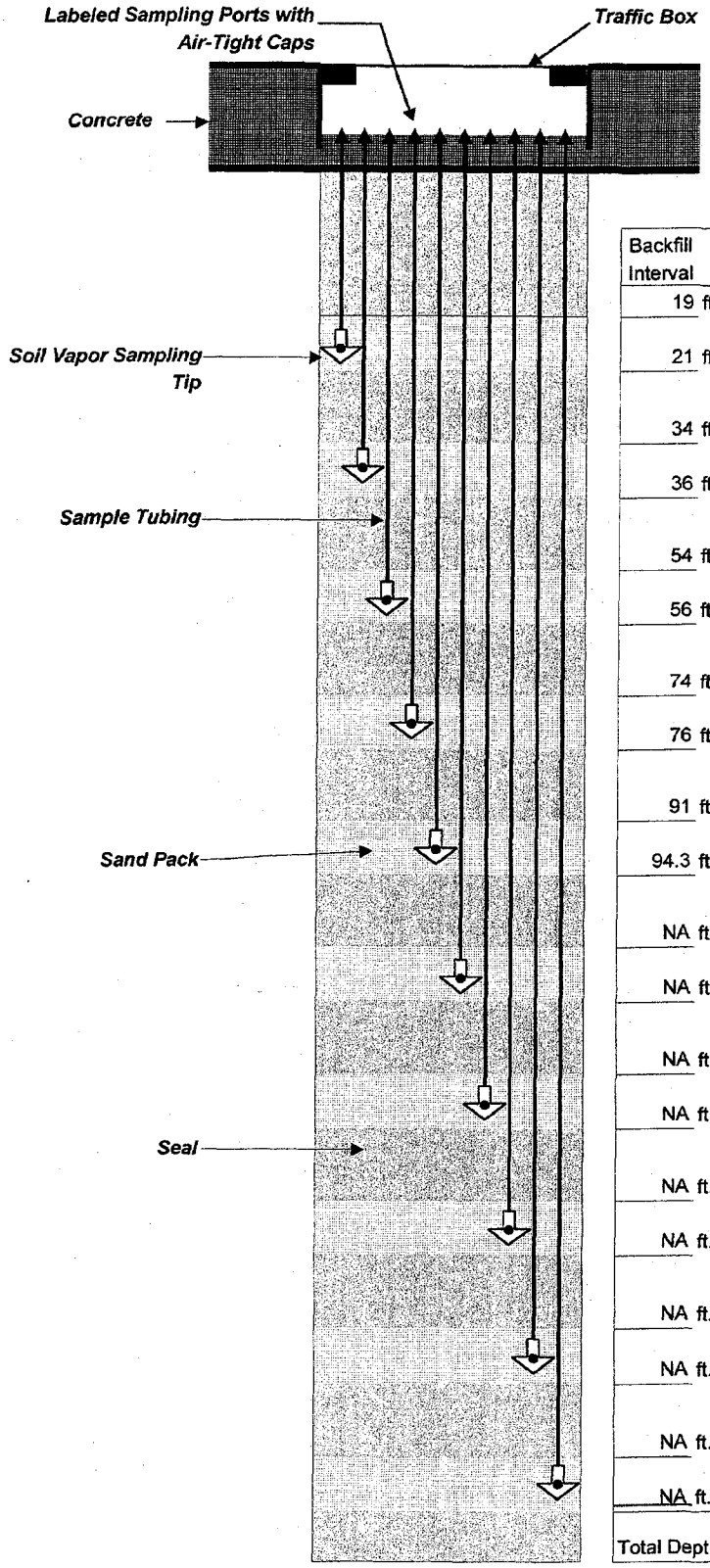
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 36

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1232.8



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
34 ft.	
36 ft.	35 ft.
54 ft.	
56 ft.	55 ft.
74 ft.	
76 ft.	75 ft.
91 ft.	
94.3 ft.	92 ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
NA ft.	
NA ft.	NA ft.
Total Depth	117 ft.

DRILLING SUMMARY

DATE COMPLETED: 3/27/98

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 117 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 5

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

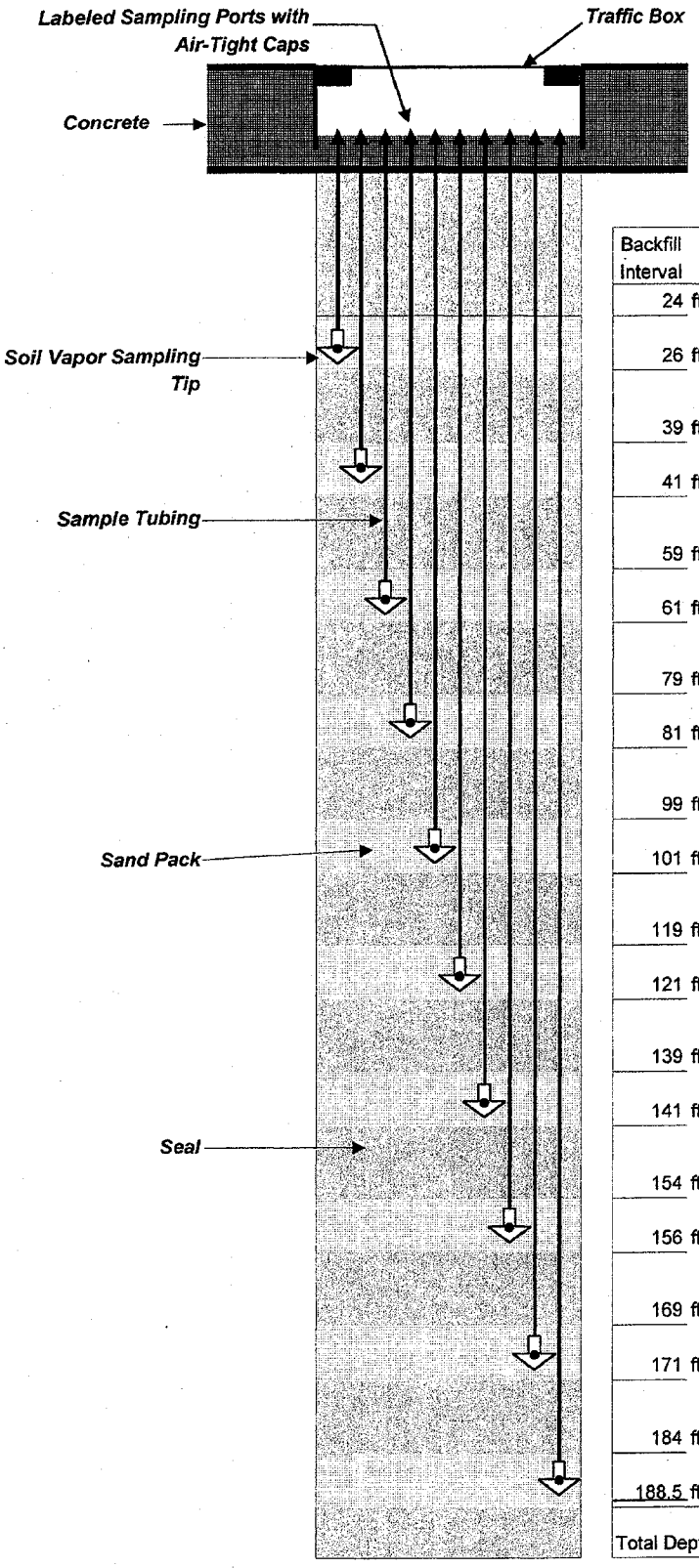
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 37

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1195.7



Backfill Interval	Sampling Depth
24 ft.	
26 ft.	25 ft.
39 ft.	
41 ft.	40 ft.
59 ft.	
61 ft.	60 ft.
79 ft.	
81 ft.	80 ft.
99 ft.	
101 ft.	100 ft.
119 ft.	
121 ft.	120 ft.
139 ft.	
141 ft.	140 ft.
154 ft.	
156 ft.	155 ft.
169 ft.	
171 ft.	170 ft.
184 ft.	
188.5 ft.	185 ft.
Total Depth	193 ft.

DRILLING SUMMARY

DATE COMPLETED: 4/7/98

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 193 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 10

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

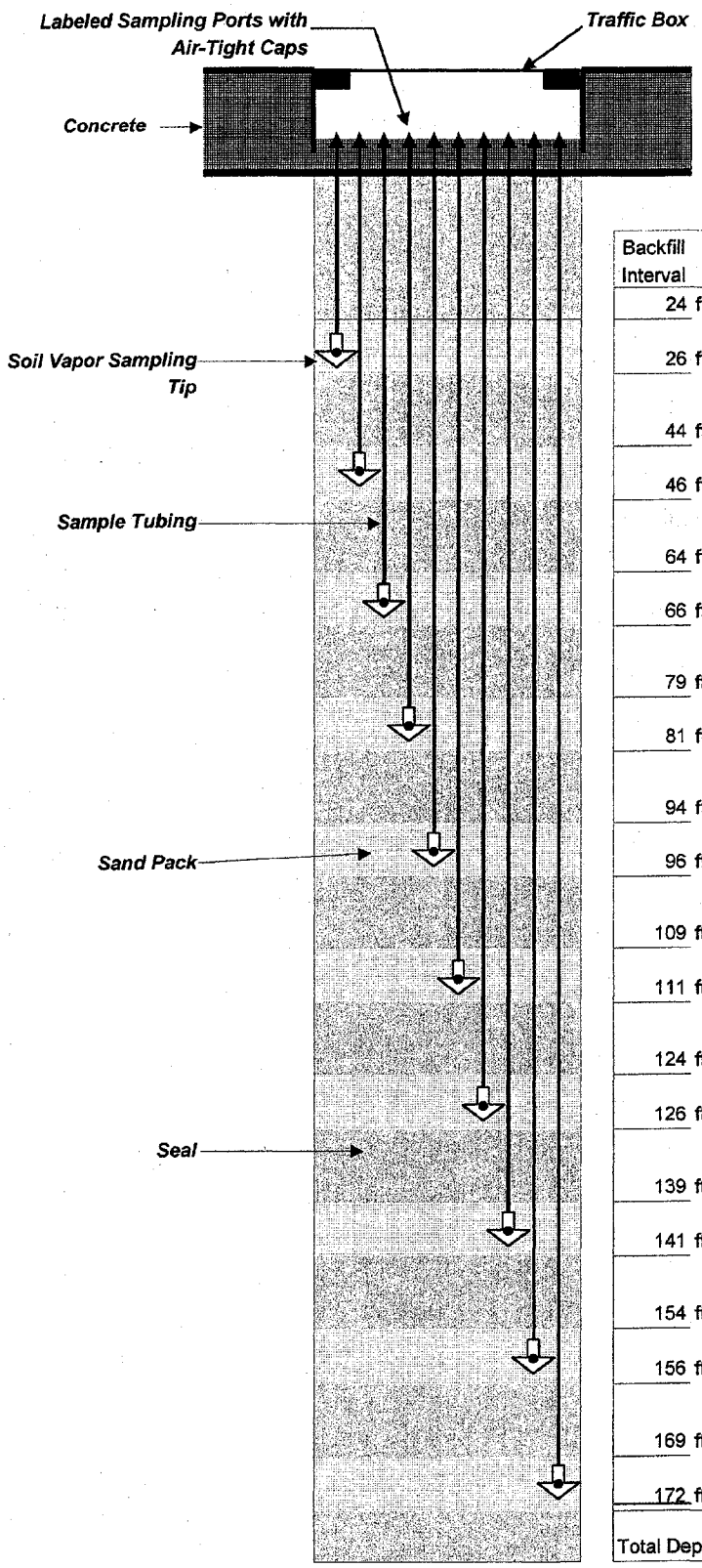
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 38

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1185.6



Backfill Interval	Sampling Depth
24 ft.	
26 ft.	25 ft.
44 ft.	
46 ft.	45 ft.
64 ft.	
66 ft.	65 ft.
79 ft.	
81 ft.	80 ft.
94 ft.	
96 ft.	95 ft.
109 ft.	
111 ft.	110 ft.
124 ft.	
126 ft.	125 ft.
139 ft.	
141 ft.	140 ft.
154 ft.	
156 ft.	155 ft.
169 ft.	
172 ft.	170 ft.
Total Depth	178.5 ft.

DRILLING SUMMARY

DATE COMPLETED: 4/15/98

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 178.5 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 10

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No. 16

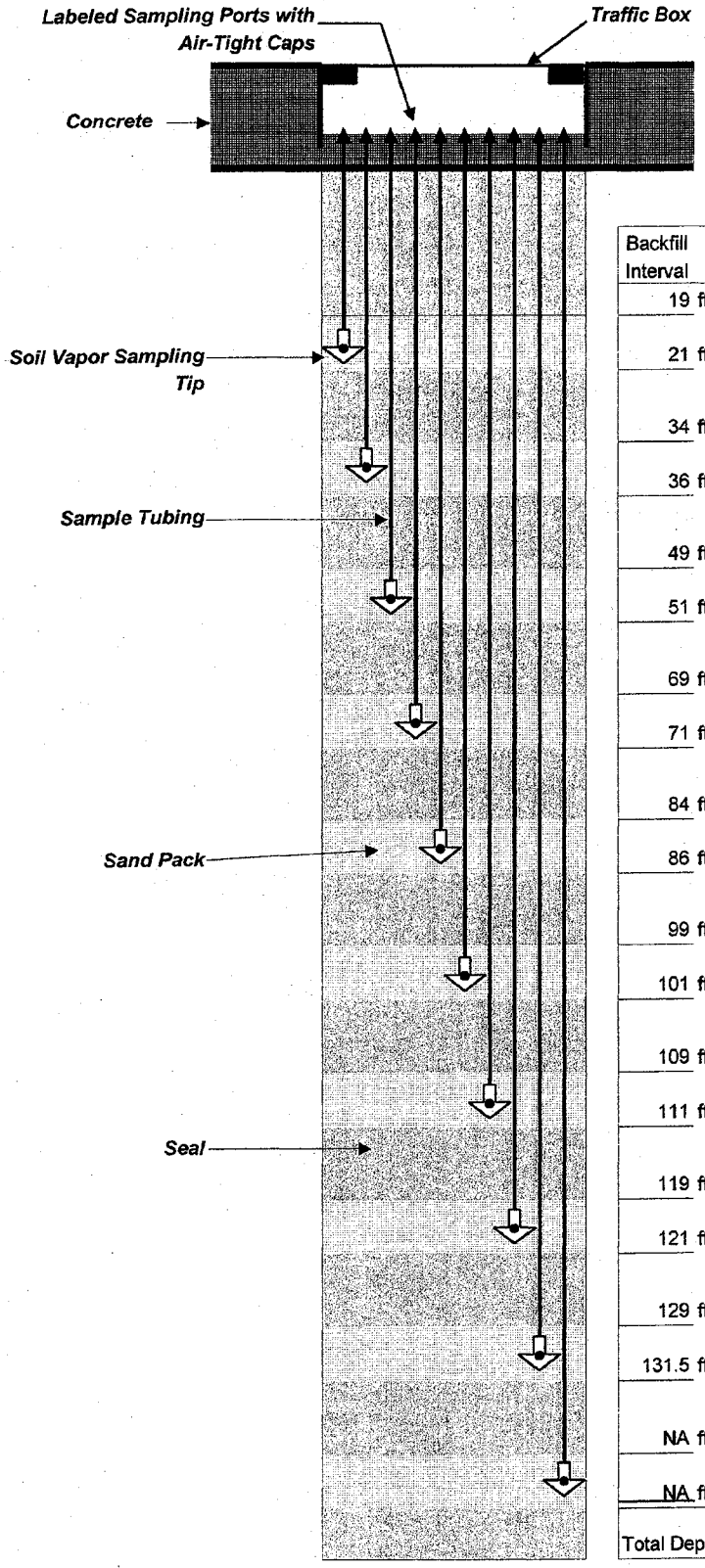
COMMENTS:

SOIL VAPOR WELL CONSTRUCTION LOG

SOIL VAPOR WELL NUMBER: 39

WELL TYPE: Soil Vapor Monitoring Well

SURFACE ELEVATION (feet above MSL): 1144.1



Backfill Interval	Sampling Depth
19 ft.	
21 ft.	20 ft.
34 ft.	
36 ft.	35 ft.
49 ft.	
51 ft.	50 ft.
69 ft.	
71 ft.	70 ft.
84 ft.	
86 ft.	85 ft.
99 ft.	
101 ft.	100 ft.
109 ft.	
111 ft.	110 ft.
119 ft.	
121 ft.	120 ft.
129 ft.	
131.5 ft.	130 ft.
NA ft.	
NA ft.	NA ft.
Total Depth	138 ft.

DRILLING SUMMARY

DATE COMPLETED: 4/17/98

DRILLING COMPANY: Boart Longyear

DRILLING RIG TYPE: Sonic

TOTAL DEPTH DRILLED: 138 feet

CONSTRUCTION DETAILS

BOREHOLE DIAMETER: 8.5 inches

TOTAL NO. OFSAMPLING PORTS: 9

SAND PACK: RMC Lonestar #3

SEAL MATERIAL: Enviroplug No 16

COMMENTS:

APPENDIX B

SOIL VAPOR SURVEY DATA REPORT, EVENT 1, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

TRANSGLOBAL
ENVIRONMENTAL
GEOCHEMISTRY, INC.

January 19, 1994

Mr. B. G. Randolph
EBASCO Environmental
3000 N. MacArthur Blvd.
Santa Ana, CA 92704

SUBJECT: **DATA REPORT - SOIL VAPOR SURVEY - JET PROPULSION LABORATORY, PASADENA, CA - EBASCO PROJECT #JPL 4712.001**

TEG JOB #940114CM

Mr. Randolph:

Please find enclosed a data report for the soil vapor survey conducted by TEG at the above referenced site for EBASCO Environmental. Soil vapor was collected by TEG and analyzed on-site in TEG's DOHS certified mobile laboratory (CERT #1667). TEG personnel collected and analyzed soil vapor for:

- volatile aromatic hydrocarbons (BTEX) by EPA 8020
- volatile halogenated hydrocarbons by EPA Method 8010

TEG appreciates the opportunity to provide analytical services to EBASCO Environmental for this project. If you have any questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Blayne Hartman

Dr. Blayne Hartman

Mobile and Laboratory Analytical Services Environmental Subconsulting Geochemical R & D Soil Vapor Surveys Air Monitoring

432 N. Cedros Ave., Solana Beach, CA 92075 Ph: (619) 793-0401 Fax: (619) 793-0404

teg

TRANSGLOBAL
ENVIRONMENTAL
GEOCHEMISTRY, INC.

January 19, 1994

Mr. B.G. Randolph
EBASCO Environmental
3000 N. MacArthur Blvd.
Santa Ana, CA 92704

SUBJECT: VAPOR POINT DUPLICATES - JET PROPULSION LABORATORY, PASADENA, CA - EBASCO PROJECT #JPL4712.001

TEG Project #940114CM

Mr. Randolph:

The following is a list of the vapor point duplicates collected from the Jet Propulsion Laboratory site in Pasadena, CA.

SV-6 duplicate for SV-5
SV-12 duplicate for SV-11
SV-18 duplicate for SV-17
SV-24 duplicate for SV-23
SV-30 duplicate for SV-29
SV-36 duplicate for SV-35
SV-42 duplicate for SV-41
SV-48 duplicate for SV-47
SV-56 duplicate for SV-55

432 N. Cedros Ave., Solana Beach, CA 92075 Ph: (619) 793-0401 Fax: (619) 793-0404

INITIAL CALIBRATION (3-POINT)

CRUISEMASTER

INSTRUMENT: SHIMADZU GC14A PID/HALL

			LOW STANDARD				MID STANDARD				HIGH STANDARD						
COMPOUND	DETECTOR	CAL DATE	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RF	SD	%RSD
CARBON TETRACHLORIDE	HALL	1/5/94	6.6	3	1,303	434.3	6.6	20	8572	428.6	6.6	50	19,916	398.3	420.4	19.4	4.6%
CHLOROETHANE	HALL	1/5/94	3.8	3	1,137	379.0	5.5	20	4592	229.6	5.6	50	13,277	265.5	291.4	78.0	26.8%
CHLOROFORM	HALL	1/5/94	6.1	3	723	241.0	6.1	20	5362	268.1	6.1	50	14,360	287.2	265.4	23.2	8.7%
1,1-DICHLORO ETHANE	HALL	1/5/94	4.7	3	965	321.7	4.7	20	6004	300.2	4.7	50	14,150	283.0	301.6	19.4	6.4%
1,2-DICHLORO ETHANE	HALL	1/5/94	7.0	3	1,171	390.3	7.0	20	5839	292.0	7.0	50	17,389	347.8	343.4	49.3	14.4%
1,1-DICHLORO ETHENE	PID	1/5/94	3.2	3	12	4.0	3.2	20	83.3	4.2	3.2	50	204	4.1	4.1	0.1	2.0%
CIS-1,2-DICHLORO ETHENE	PID	1/5/94	5.4	3	26	8.7	5.4	20	163	8.2	5.5	50	406	8.1	8.3	0.3	3.7%
TRANS-1,2-DICHLORO ETHENE	PID	1/5/94	4.1	3	38	12.7	4.1	20	231	11.6	4.1	50	552	11.0	11.8	0.8	7.1%
DICHLOROMETHANE	HALL	1/5/94	3.8	3	649	216.3	3.8	20	4759	238.0	3.8	50	15,116	302.3	252.2	44.7	17.7%
TETRACHLORO ETHENE	PID	1/5/94	11.9	3	23	7.7	11.9	20	146	7.3	11.9	50	339	6.8	7.2	0.4	6.2%
1,1,1,2-TETRACHLORO ETHANE	HALL	1/5/94	14.5	3	1,677	559.0	14.5	20	10662	533.1	14.5	50	22,423	448.5	513.5	57.8	11.3%
1,1,2,2-TETRACHLORO ETHANE	HALL	1/5/94	18.0	3	3,062	1020.7	18.0	20	19584	979.2	18.0	50	43,730	874.6	958.2	75.3	7.9%
1,1,1-TRICHLORO ETHANE	HALL	1/5/94	6.3	3	942	314.0	6.3	20	6914	345.7	6.3	50	15,767	315.3	325.0	17.9	5.5%
1,1,2-TRICHLORO ETHANE	HALL	1/5/94	11.8	3	852	284.0	11.8	20	6008	300.4	11.8	50	16,302	326.0	303.5	21.2	7.0%
TRICHLORO ETHENE	PID	1/5/94	8.0	3	27	9.1	8.0	20	173	8.7	8.0	50	416	8.3	8.7	0.4	4.7%
VINYL CHLORIDE	PID	1/5/94	2.0	3.0	15.0	5.0	2.0	20	109	5.5	2.0	50	256	5.1	5.2	0.2	4.5%
TRICHLOROFLUOROMETHANE (FR11)	HALL	1/5/94	2.8	3	3,023	1,008	2.8	20	16,688	834.4	2.8	50	43,441	868.8	903.6	91.7	10.2%
DICHLORODIFLUOROMETHANE (FR12)	HALL	1/5/94	1.8	3	1,960	653	1.8	20	13,381	669.1	1.8	50	31,249	625.0	649.1	22.3	3.4%
BENZENE	PID	1/5/94	6.8	3	52.0	17.3	6.8	20	315	15.8	6.8	50	738	14.8	15.9	1.3	8.2%
CHLOROBENZENE	PID	1/5/94	14.1	3	113.0	37.7	14.1	20	725	36	14.1	50	1711	34.2	36.0	1.7	4.8%
ETHYLBENZENE	PID	1/5/94	14.5	3	52.0	17.3	14.5	20	313	15.7	14.5	50	679	13.6	15.5	1.9	12.1%
TOLUENE	PID	1/5/94	10.7	3	50.0	16.7	10.7	20	324	16.2	10.7	50	730	14.6	15.8	1.1	6.9%
m&p-XYLENES	PID	1/5/94	14.8	6	114.0	19.0	14.8	40	684	17.1	14.8	100	1519	15.2	17.1	1.9	11.1%
o-XYLENE	PID	1/5/94	15.9	3	48.0	16.0	15.9	20	291	14.6	15.9	50	662	13.2	14.6	1.4	9.5%

ANALYSES PERFORMED IN TEG'S MOBILE LABORATORY
ANALYSES PERFORMED BY: MR. SCOTT PIEPER

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

EBASCO
JET PROPULSION LABORATORY

SAMPLES COLLECTED BY: MR. RANDY POLLACK & MR. CHRIS MALICKI

TEG Project #940114CM

SAMPLES ANALYZED BY: MR. SCOTT PIEPER

Sample ID	Depth (ft)	Purge (ml)	Sample Date	Collect Time	Analysis Time	Inj. (ml)	CHCL3 Area	CHCL3 (ug/l)	CCL4 Area	CCL4 (ug/l)	TCA Area	TCA (ug/l)	TCE Area	TCE (ug/l)	PCE Area	PCE (ug/l)
BLANK	--	60	01/14/94	8:03	8:03	1	0	ND	0	ND	0	ND	0	ND	0	ND
BLANK	--	60	01/15/94	7:17	7:17	1	0	ND	0	ND	0	ND	0	ND	0	ND
BLANK	--	60	01/16/94	7:16	7:16	1	0	ND	0	ND	0	ND	0	ND	0	ND
BLANK	--	60	01/17/94	10:18	10:18	1	0	ND	0	ND	0	ND	0	ND	0	ND
BLANK	--	60	01/18/94	7:20	7:20	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-1	20	140	01/14/94	10:20	10:23	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-2	20	140	01/14/94	11:45	11:49	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-3	20	140	01/14/94	12:35	12:39	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-4	20	140	01/14/94	13:55	13:59	1	0	ND	0	ND	1075	3.3	0	ND	0	ND
SV-5	22	140	01/14/94	15:10	15:16	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-6	22	140	01/14/94	15:30	15:44	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-7	12	140	01/15/94	8:10	8:10	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-8	12	140	01/15/94	8:50	8:53	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-9	19	140	01/15/94	9:50	9:52	1	495	1.9	0	ND	0	ND	0	ND	0	ND
SV-10	20	140	01/15/94	10:35	10:37	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-11	20	140	01/15/94	11:10	11:14	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-12	20	140	01/15/94	11:35	11:41	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-13	20	140	01/15/94	12:45	12:46	1	0	ND	2097	5.0	0	ND	0	ND	0	ND
SV-14	20	140	01/15/94	13:40	13:44	1	0	ND	606	1.4	0	ND	0	ND	0	ND
SV-15	20	140	01/15/94	14:50	14:52	1	0	ND	6458	15.4	0	ND	45	5.2	8	1.0
SV-16	20	140	01/15/94	15:50	15:54	1	0	ND	6332	15.1	0	ND	26	3.0	0	ND
SV-17	11	140	01/15/94	16:30	16:31	1	0	ND	3974	9.5	0	ND	452	51.9	0	ND
SV-18	11	140	01/15/94	16:55	16:59	1	0	ND	4837	11.5	0	ND	463	53.3	0	ND
SV-19	19	140	01/15/94	17:25	17:27	1	0	ND	2344	5.6	0	ND	0	ND	0	ND
SV-20	19.5	140	01/15/94	17:55	17:56	1	0	ND	1506	3.6	0	ND	0	ND	0	ND
SV-21	10	140	01/16/94	8:10	8:15	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-22	20	140	01/16/94	8:50	8:51	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-23	20	140	01/16/94	9:30	9:30	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-24	20	140	01/16/94	9:55	10:01	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-25	20	140	01/16/94	10:30	19:32	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-26	14	140	01/16/94	11:15	11:18	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-27	16	140	01/16/94	12:55	12:56	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-28	9	140	01/16/94	13:25	13:29	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-29	13	140	01/16/94	14:00	14:02	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-30	13	140	01/16/94	14:25	14:35	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-31	13	140	01/16/94	15:10	15:14	1	2038	7.7	37439	89.1	0	ND	0	ND	0	ND
SV-32	16	140	01/16/94	15:45	15:48	1	2877	10.8	21695	51.6	0	ND	0	ND	0	ND
SV-33	11	140	01/16/94	16:20	16:24	1	2760	10.4	36385	86.5	0	ND	0	ND	0	ND
SV-34	8	140	01/16/94	17:00	17:05	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-35	13	140	01/16/94	17:30	17:34	1	446	1.7	8251	19.6	0	ND	0	ND	0	ND
SV-36	13	140	01/16/94	17:55	18:00	1	595	2.2	10049	23.9	0	ND	0	ND	0	ND
SV-37	18	140	01/17/94	10:55	10:55	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-38	12	140	01/17/94	12:25	12:26	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-39	19	140	01/17/94	13:10	13:11	1	0	ND	0	ND	0	ND	0	ND	0	ND

teg

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

EBASCO
JET PROPULSION LABORATORY

SAMPLES COLLECTED BY: MR. RANDY POLLACK & MR. CHRIS MALICKI

TEG Project #940114CM

SAMPLES ANALYZED BY: MR. SCOTT PIEPER

Sample ID	Depth (ft)	Purge (ml)	Sample Date	Collect Time	Analysis Time	Inj. (ml)	CHCL3 Area	CHCL3 (ug/l)	CCL4 Area	CCL4 (ug/l)	TCA Area	TCA (ug/l)	TCE Area	TCE (ug/l)	PCE Area	PCE (ug/l)
SV-40	19	140	01/17/94	14:20	14:24	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-41	15	140	01/17/94	15:00	15:06	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-42	15	140	01/17/94	15:30	15:33	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-43	17	140	01/17/94	16:05	16:06	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-44	11	140	01/17/94	16:30	16:33	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-45	10	140	01/17/94	17:10	17:12	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-46	12	140	01/17/94	17:45	17:48	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-47	20	140	01/17/94	18:20	18:24	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-48	20	140	01/17/94	18:50	18:53	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-49	20	140	01/18/94	8:15	8:19	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-50	20	140	01/18/94	8:50	8:53	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-51	--	--	01/18/94	REFUSAL 3 ATTEMPTS												
SV-52	15	140	01/18/94	9:45	9:47	1	0	ND	0	ND	0	ND	10	1.2	0	ND
SV-53	11	140	01/18/94	10:15	10:22	1	0	ND	0	ND	0	ND	12	1.3	0	ND
SV-54	8	140	01/18/94	11:00	11:00	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-55	6	140	01/18/94	12:00	12:01	1	0	ND	1111	2.6	0	ND	0	ND	0	ND
SV-56	6	140	01/18/94	12:35	12:43	1	0	ND	1229	2.9	0	ND	0	ND	0	ND
SV-57	17	140	01/18/94	13:10	13:14	1	0	ND	0	ND	0	ND	0	ND	0	ND
SV-58	6.5	140	01/18/94	14:00	14:04	1	0	ND	0	ND	0	ND	0	ND	0	ND
DETECTION LIMITS								1.0		1.0		1.0		1.0		1.0

DATA MEASURED ON-SITE IN TEG'S DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
1-20-94

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SOIL GAS DAILY CALIBRATION STANDARD REPORT

01/14/94
SUPPLY SOURCE: CHEM SERVE 8010/8020 MIX
INSTRUMENT: CRUISEMASTER

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
BROMOBENZENE	PID	17.8	20	17.7	354	17.7	0.6%
CARBON TETRACHLORIDE	HALL	420.4	20	6.5	8467	423.3	0.7%
CHLOROFORM	HALL	265.5	20	6.1	5262	263.1	0.9%
1,1 DiCHLORO ETHANE	HALL	301.6	20	4.7	5772	288.6	4.3%
1,1 DiCHLORO ETHENE	PID	4.1	20	3.2	74	3.7	9.7%
TETRACHLORO ETHENE	PID	7.3	20	12.0	142	7.1	2.5%
1,1,1 TriCHLORO ETHANE	HALL	325.0	20	6.4	6615	330.8	1.8%
TriCHLORO ETHENE	PID	8.7	20	8.1	162	8.1	7.1%
BENZENE	PID	15.9	20	6.8	295	14.7	7.3%
ETHYLBENZENE	PID	15.5	20	14.6	288	14.4	7.1%
TOLUENE	PID	16.0	20	10.8	314	15.7	1.9%
o-XYLENES	PID	14.6	20	16.0	276	13.8	5.4%

ANALYSES PERFORMED IN TEG'S DOHS CERTIFIED MOBILE LABORATORY #1667
ANALYSES PERFORMED BY: MR. SCOTT PIEPER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
1-20-94

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SOIL GAS DAILY QUALITY CONTROL CHECK ANALYSES

SOURCE: 9-MIX + BTEX
INSTRUMENT: CRUISEMASTER

ANALYSIS DATE	01/14/94			01/14/94		
ANALYSIS TIME	7:27			16:19		
COMPOUND	TRUE CONC (ng)	DET CONC (ng)	%DIFF	TRUE CONC (ng)	DET CONC (ng)	%DIFF
CHLOROBENZENE	20	18.6	6.9%	20	16.4	18.0%
1,1 DiCHLORO ETHANE	20	17.7	11.5%	20	16.8	15.8%
1,1 DiCHLORO ETHENE	20	22.4	11.9%	20	22.6	13.0%
DICHLOROMETHANE	20	19.0	4.8%	20	16.8	15.9%
TETRACHLORO ETHENE	20	20.6	2.9%	20	18.1	9.5%
1,1,1 TriCHLORO ETHANE	20	17.7	11.5%	20	17.1	14.6%
TriCHLORO ETHENE	20	19.7	1.4%	20	17.8	11.2%
BENZENE	20	19.2	3.9%	20	17.8	11.1%
TOLUENE	20	19.0	5.1%	20	17.3	13.5%
M&P-XYLENE	40	36.6	8.6%	40	34.0	15.0%

ANALYSES PERFORMED IN TEG'S DOHS CERTIFIED MOBILE LABORATORY #1667
ANALYSES PERFORMED BY: MR. SCOTT PIEPER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
1-20-94

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SOIL GAS DAILY CALIBRATION STANDARD REPORT

01/15/94
SUPPLY SOURCE: CHEM SERVE 8010/8020 MIX
INSTRUMENT: CRUISEMASTER

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
BROMOBENZENE	PID	17.8	20	17.7	341	17.1	4.1%
CARBON TETRACHLORIDE	HALL	420.4	20	6.5	9217	460.8	9.6%
CHLOROFORM	HALL	265.5	20	6.1	5720	286.0	7.7%
1,1 DiCHLORO ETHANE	HALL	301.6	20	4.7	6566	328.3	8.8%
1,1 DiCHLORO ETHENE	PID	4.1	20	3.2	71	3.5	13.5%
TETRACHLORO ETHENE	PID	7.3	20	12.0	130	6.5	10.7%
1,1,1 TriCHLORO ETHANE	HALL	325.0	20	6.4	7022	351.1	8.0%
TriCHLORO ETHENE	PID	8.7	20	8.1	152	7.6	12.8%
BENZENE	PID	15.9	20	6.8	273	13.7	14.1%
ETHYLBENZENE	PID	15.5	20	14.6	275	13.7	11.4%
TOLUENE	PID	16.0	20	10.8	287	14.3	10.3%
o-XYLENES	PID	14.6	20	16.0	276	13.8	5.4%

ANALYSES PERFOMED IN TEG'S DOHS CERTIFIED MOBILE LABORATORY #1667
ANALYSES PERFORMED BY: MR. SCOTT PIEPER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
1-20-94

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teg

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SOIL GAS DAILY QUALITY CONTROL CHECK ANALYSES

SOURCE: 9-MIX + BTEX
INSTRUMENT: CRUISEMASTER

ANALYSIS DATE	01/15/94			01/15/94		
ANALYSIS TIME	6:46			18:37		
COMPOUND	TRUE CONC (ng)	DET CONC (ng)	%DIFF	TRUE CONC (ng)	DET CONC (ng)	%DIFF
CHLOROBENZENE	20	17.1	14.7%	20	18.6	7.1%
1,1 DiCHLORO ETHANE	20	20.7	3.2%	20	18.3	8.4%
1,1 DiCHLORO ETHENE	20	23.2	16.2%	20	22.9	14.6%
DICHLOROMETHANE	20	17.2	14.1%	20	16.1	19.7%
TETRACHLORO ETHENE	20	18.6	7.1%	20	20.7	3.3%
1,1,1 TriCHLORO ETHANE	20	17.8	11.1%	20	19.1	4.6%
TriCHLORO ETHENE	20	18.1	9.7%	20	20.1	0.6%
BENZENE	20	17.4	13.1%	20	19.1	4.5%
TOLUENE	20	17.5	12.4%	20	19.0	5.2%
M&P-XYLENE	40	34.7	13.3%	40	38.7	3.4%

ANALYSES PERFORMED IN TEG'S DOHS CERTIFIED MOBILE LABORATORY #1667
ANALYSES PERFORMED BY: MR. SCOTT PIEPER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
1-20-94

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TRANSGLOBAL
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SOIL GAS DAILY CALIBRATION STANDARD REPORT

01/16/94
SUPPLY SOURCE: CHEM SERVE 8010/8020 MIX
INSTRUMENT: CRUISEMASTER

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
BROMOBENZENE	PID	17.8	20	17.7	372	18.6	4.6%
CARBON TETRACHLORIDE	HALL	420.4	20	6.5	8450	422.5	0.5%
CHLOROFORM	HALL	265.5	20	6.1	5132	256.6	3.4%
1,1 DiCHLORO ETHANE	HALL	301.6	20	4.7	5892	294.6	2.3%
1,1 DiCHLORO ETHENE	PID	4.1	20	3.2	74	3.7	10.0%
TETRACHLORO ETHENE	PID	7.3	20	12.0	142	7.1	3.0%
1,1,1 TriCHLORO ETHANE	HALL	325.0	20	6.4	6416	320.8	1.3%
TriCHLORO ETHENE	PID	8.7	20	8.1	166	8.3	4.8%
BENZENE	PID	15.9	20	6.8	302	15.1	4.9%
ETHYLBENZENE	PID	15.5	20	14.6	308	15.4	0.8%
TOLUENE	PID	16.0	20	10.8	316	15.8	1.2%
o-XYLENES	PID	14.6	20	16.0	286	14.3	1.9%

ANALYSES PERFORMED IN TEG'S DOHS CERTIFIED MOBILE LABORATORY #1667
ANALYSES PERFORMED BY: MR. SCOTT PIEPER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
1-21-94

432 N. Cedros Ave., Solana Beach, CA 92075 Ph: (619) 793-0401 Fax: (619) 793-0404

TRANSGLOBAL
ENVIRONMENTAL
GEOCHEMISTRY

SOIL GAS DAILY QUALITY CONTROL CHECK ANALYSES

SOURCE: 9-MIX + BTEX
INSTRUMENT: CRUISEMASTER

ANALYSIS DATE	01/16/94			01/16/94		
ANALYSIS TIME	6:47			18:22		
COMPOUND	TRUE CONC (ng)	DET CONC (ng)	%DIFF	TRUE CONC (ng)	DET CONC (ng)	%DIFF
CHLOROBENZENE	20	17.1	14.7%	20	17.4	13.0%
1,1 DiCHLORO ETHANE	20	20.9	4.3%	20	18.6	6.8%
1,1 DiCHLORO ETHENE	20	22.4	12.2%	20	21.9	9.4%
DICHLOROMETHANE	20	19.6	2.0%	20	19.8	0.9%
TETRACHLORO ETHENE	20	19.2	4.0%	20	19.6	2.1%
1,1,1 TriCHLORO ETHANE	20	19.3	3.7%	20	17.8	11.3%
TriCHLORO ETHENE	20	18.5	7.7%	20	18.8	5.9%
BENZENE	20	17.4	13.1%	20	17.9	10.3%
TOLUENE	20	17.6	12.2%	20	18.6	6.9%
M&P-XYLENE	40	35.5	11.2%	40	36.6	8.5%

ANALYSES PERFORMED IN TEG'S DOHS CERTIFIED MOBILE LABORATORY #1667
ANALYSES PERFORMED BY: MR. SCOTT PIEPER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
1-20-94

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TRANSGLOBAL
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GEOCHEMISTRY

SOIL GAS DAILY CALIBRATION STANDARD REPORT

01/17/94
SUPPLY SOURCE: CHEM SERVE 8010/8020 MIX
INSTRUMENT: CRUISEMASTER

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
BROMOBENZENE	PID	17.8	20	17.9	359	17.9	0.8%
CARBON TETRACHLORIDE	HALL	420.4	20	6.6	8704	435.2	3.5%
CHLOROFORM	HALL	265.5	20	6.1	5267	263.3	0.8%
1,1 DiCHLORO ETHANE	HALL	301.6	20	4.7	5394	269.7	10.6%
1,1 DiCHLORO ETHENE	PID	4.1	20	3.2	71	3.5	13.7%
TETRACHLORO ETHENE	PID	7.3	20	12.0	143	7.2	2.0%
1,1,1 TriCHLORO ETHANE	HALL	325.0	20	6.4	6612	330.6	1.7%
TriCHLORO ETHENE	PID	8.7	20	8.1	165	8.2	5.2%
BENZENE	PID	15.9	20	6.9	300	15.0	5.6%
ETHYLBENZENE	PID	15.5	20	14.6	296	14.8	4.5%
TOLUENE	PID	16.0	20	10.8	316	15.8	1.2%
o-XYLENES	PID	14.6	20	16.0	286	14.3	1.9%

ANALYSES PERFORMED IN TEG'S DOHS CERTIFIED MOBILE LABORATORY #1667
ANALYSES PERFORMED BY: MR. SCOTT PIEPER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

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1-20-94

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SOIL GAS DAILY QUALITY CONTROL CHECK ANALYSES

SOURCE: 9-MIX + BTEX
INSTRUMENT: CRUISEMASTER

ANALYSIS DATE	01/17/94			01/17/94		
ANALYSIS TIME	9:47			19:26		
COMPOUND	TRUE CONC (ng)	DET CONC (ng)	%DIFF	TRUE CONC (ng)	DET CONC (ng)	%DIFF
CHLOROBENZENE	20	16.3	18.4%	20	18.0	9.8%
1,1 DiCHLORO ETHANE	20	19.1	4.6%	20	20.9	4.3%
1,1 DiCHLORO ETHENE	20	21.6	7.8%	20	21.2	5.9%
DICHLOROMETHANE	20	22.7	13.5%	20	20.1	0.4%
TETRACHLORO ETHENE	20	17.0	15.1%	20	21.1	5.6%
1,1,1 TriCHLORO ETHANE	20	18.4	8.2%	20	20.6	3.2%
TriCHLORO ETHENE	20	17.3	13.7%	20	20.6	2.9%
BENZENE	20	17.6	12.2%	20	19.8	1.2%
TOLUENE	20	18.0	10.1%	20	20.2	0.9%
M&P-XYLENE	40	35.7	10.9%	40	37.5	6.2%

ANALYSES PERFORMED IN TEG'S DOHS CERTIFIED MOBILE LABORATORY #1667
ANALYSES PERFORMED BY: MR. SCOTT PIEPER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
1-20-94

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TRANSGLOBAL
ENVIRONMENTAL
GEOCHEMISTRY

SOIL GAS DAILY CALIBRATION STANDARD REPORT

01/18/94
SUPPLY SOURCE: CHEM SERVE 8010/8020 MIX
INSTRUMENT: CRUISEMASTER

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
BROMOBENZENE	PID	17.8	20	17.8	353	17.6	0.9%
CARBON TETRACHLORIDE	HALL	420.4	20	6.6	8783	439.2	4.5%
CHLOROFORM	HALL	265.5	20	6.1	5436	271.8	2.4%
1,1 DiCHLORO ETHANE	HALL	301.6	20	4.7	6838	341.9	13.4%
1,1 DiCHLORO ETHENE	PID	4.1	20	3.2	92	4.6	11.8%
TETRACHLORO ETHENE	PID	7.3	20	12.0	138	6.9	5.6%
1,1,1 TriCHLORO ETHANE	HALL	325.0	20	6.4	6698	334.9	3.0%
TriCHLORO ETHENE	PID	8.7	20	8.1	161	8.1	7.5%
BENZENE	PID	15.9	20	6.9	289	14.4	9.3%
ETHYLBENZENE	PID	15.5	20	14.6	281	14.0	9.5%
TOLUENE	PID	16.0	20	10.8	302	15.1	5.5%
o-XYLENES	PID	14.6	20	16.0	286	14.3	1.9%

ANALYSES PERFORMED IN TEG'S DOHS CERTIFIED MOBILE LABORATORY #1667
ANALYSES PERFORMED BY: MR. SCOTT PIEPER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
1-20-94

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TRANSGLOBAL
ENVIRONMENTAL
GEOCHEMISTRY

SOIL GAS DAILY QUALITY CONTROL CHECK ANALYSES

SOURCE: 9-MIX + BTEX
INSTRUMENT: CRUISEMASTER

ANALYSIS DATE		01/18/94			01/18/94	
ANALYSIS TIME		6:49			15:05	
COMPOUND	TRUE CONC (ng)	DET CONC (ng)	%DIFF	TRUE CONC (ng)	DET CONC (ng)	%DIFF
CHLOROBENZENE	20	18.8	5.9%	20	17.9	10.3%
1,1 DiCHLORO ETHANE	20	21.5	7.3%	20	22.3	11.3%
1,1 DiCHLORO ETHENE	20	21.3	6.3%	20	22.6	12.8%
DICHLOROMETHANE	20	21.6	8.0%	20	20.1	0.6%
TETRACHLORO ETHENE	20	20.5	2.6%	20	20.4	1.8%
1,1,1 TriCHLORO ETHANE	20	21.3	6.4%	20	20.8	4.1%
TriCHLORO ETHENE	20	19.9	0.5%	20	19.3	3.3%
BENZENE	20	19.4	3.1%	20	18.3	8.5%
TOLUENE	20	19.2	4.1%	20	18.8	6.1%
M&P-XYLENE	40	38.8	2.9%	40	36.6	8.6%

ANALYSES PERFORMED IN TEG'S DOHS CERTIFIED MOBILE LABORATORY #1667
ANALYSES PERFORMED BY: MR. SCOTT PIEPER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

Blayne Hartman
1-20-94

432 N. Cedros Ave., Solana Beach, CA 92075 Ph: (619) 793-0401 Fax: (619) 793-0404

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

CHAIN-OF-CUSTODY RECORD

CLIENT: EBASCO
ADDRESS: 3000 N. MACARTHUR BLVD, SANTA ANA, 92704
PHONE: 714 662-4141 FAX: 714 662-4049
CLIENT PROJECT #: PROJECT MANAGER: BG RANDOLPH

DATE: 1/14/94 PAGE OF
TEG PROJECT #: 940114CM
LOCATION: JPL - PASADENA
COLLECTOR: DATE OF COLLECTION:

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Note Number
SV-1	20	1020			✓	✓																
SV-1 DUP	20	1055			✓	✓																
SV-2	20	1145			✓	✓																
SV-3	20	1255			✓	✓																
SV-4	20	1355			✓	✓																
SV-5	22	1510			✓	✓																
SV-5 DUP	22	1530			✓	✓																

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

CHAIN-OF-CUSTODY RECORD

CLIENT: EBASCO
ADDRESS:
PHONE: FAX:
CLIENT PROJECT #: PROJECT MANAGER:

DATE: 1/15/94 PAGE 1 OF 1
TEG PROJECT #: 940114CM
LOCATION: JPL - PASADENA
COLLECTOR: DATE OF COLLECTION:

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Note Number
SV-7	12	810			✓	✓																
SV-8	12	850			✓	✓																
SV-9	19	930			✓	✓																
SV-10	20	1035			✓	✓																
SV-11	20	1110			✓	✓																
SV-12	20	1135			✓	✓														SV-11 DUP		
SV-13	20	1245			✓	✓																
SV-14	20	1340			✓	✓																
SV-15	20	1450			✓	✓																
SV-16	20	1550			✓	✓																
SV-17	11	1630			✓	✓																
SV-18	11	1655			✓	✓														SV-17 DUP		
SV-19	19	1725			✓	✓																
SV-20	19.5	1755			✓	✓																

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

CHAIN-OF-CUSTODY RECORD

CLIENT: EBASCO

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 1/16/94 PAGE 1 OF 1

TEG PROJECT #: 940114CM

LOCATION: JPL

COLLECTOR: DATE OF COLLECTION:

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Note Number
SV-21	10	810 ~~815~~			✓	✓																
SV-22	20	850			✓	✓																
SV-23	20	930			✓	✓																
SV-24	20	955			✓	✓														SV-23 DUP		
SV-25	20	1030			✓	✓																
SV-26	14	1115			✓	✓																
SV-27	16	1255			✓	✓																
SV-28	9	1325			✓	✓																
SV-29	13'	1400			✓	✓																
SV-30	13'	1425			✓	✓														SV-29 DUP		
SV-31	13'	1510			✓	✓																
SV-32	16'	1545			✓	✓																
SV-33	11	1600			✓	✓																
SV-34	8	1700			✓	✓																
SV-35	13	1730			✓	✓																
SV-36	13	1755			✓	✓														SV-35 DUP		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

CHAIN-OF-CUSTODY RECORD

CLIENT: EBASCO

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 1/17/94 PAGE 1 OF 1

TEG PROJECT #: 940114CM

LOCATION: JPL

COLLECTOR: DATE OF COLLECTION:

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Note Number
SV-37	18	1055			✓	✓																
SV-38	12	1215			✓	✓																
SV-39	19	1310			✓	✓																
SV-40	19	1420			✓	✓																
SV-41	15	1500			✓	✓																
SV-42	15	1530			✓	✓														SV-41 DUP		
SV-43	17	1605			✓	✓																
SV-44	11	1630			✓	✓																
SV-45	10	1710			✓	✓																
SV-46	12	1745			✓	✓																
SV-47	12	1820			✓	✓																
SV-48	12	1850			✓	✓														SV-47 DUP		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

CHAIN-OF-CUSTODY RECORD

CLIENT: EBASCO

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 1/18/94 PAGE 1 OF 1

TEG PROJECT #: 940114CM

LOCATION: JPL

COLLECTOR: DATE OF COLLECTION:

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Note Number
SV-49	20	815			✓	✓																
SV-50	20	850			✓	✓																
SV-51	—	—			✓	✓														REFUSAL 4X		
SV-52	15	945			✓	✓																
SV-53	11	1015			✓	✓																
SV-54	8	1100			✓	✓																
SV-55	6	1200			✓	✓																
SV-56	6	1215			✓	✓														SV-55 DUP		
SV-57	17	1310			✓	✓																
SV-58	6.5	1400			✓	✓																

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

APPENDIX C

C1 – SOIL VAPOR DATA REPORT, EVENT 2, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

C2 – SOIL VAPOR DATA REPORT, EVENT 3, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

C3 – SOIL VAPOR DATA REPORT, EVENT 4, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

C4 – SOIL VAPOR DATA REPORT, EVENT 5, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

C5 – SOIL VAPOR DATA REPORT, EVENT 6, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

C6 – SOIL VAPOR DATA REPORT, EVENT 7, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

APPENDIX C1

SOIL VAPOR DATA REPORT, EVENT 2, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

(SEE CD ROM)

CALIBRATION CURVE PREPARATION DATE:11/22/94, FREONS 11, 12, VINYL CHLORIDE, CHLOROETHANE 09/14/94

LAB: TEG CRUISEMASTER
INSTRUMENT: GC14-RIGHT

		LOW STANDARD				MID STANDARD				HIGH STANDARD					
COMPOUND	DETECTOR	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RF	%RSD
CARBON TETRACHLORIDE	HALL	6.1	5	2787	557.3	6.1	10	5549	554.9	6.1	25	13877	555.1	555.8	0.2%
CHLOROFORM	HALL	5.6	5	2165	432.9	5.6	10	4346	434.6	5.6	25	12456	498.2	455.3	8.2%
DICHLOROMETHANE	HALL	3.5	5	2379	475.9	3.5	10	4523	452.3	3.5	25	11908	476.3	468.2	2.9%
1,1 DiCHLORO ETHANE	HALL	4.4	5	2299	459.9	4.4	10	4388	438.8	4.4	25	11041	441.6	446.8	2.6%
1,2 DiCHLORO ETHANE	HALL	6.5	5	3286	657.2	6.5	10	5839	583.9	6.5	25	13996	559.9	600.3	8.4%
1,1 DiCHLORO ETHENE	PID	2.9	5	26	5.2	3.0	10	49	4.9	2.9	25	108	4.3	4.8	9.3%
Cis 1,2 DiCHLORO ETHENE	PID	5.1	5	35	7.0	5.1	10	66	6.6	5.1	25	154	6.1	6.6	6.7%
Tr 1,2 DiCHLORO ETHENE	PID	3.8	5	55	11.0	3.8	10	109	10.9	3.8	25	232	9.3	10.4	9.1%
TETRACHLORO ETHANE (1112)	HALL	13.9	5	2684	536.8	13.9	10	5544	554.4	13.8	25	12844	513.8	535.0	3.8%
TETRACHLORO ETHANE (1122)	HALL	17.4	5	2287	457.5	17.3	10	4933	493.3	17.3	25	12296	491.8	480.9	4.2%
TETRACHLORO ETHENE	PID	11.4	5	35	7.1	11.4	10	67	6.7	11.4	25	154	6.2	6.6	6.9%
1,1,1 TriCHLORO ETHANE	HALL	5.9	5	2157	431.3	5.9	10	4233	423.3	5.9	25	11450	458.0	437.5	4.2%
1,1,1 TriCHLORO ETHANE	FID	3.5	500	76	0.153	3.5	2500	477	0.191	3.5	10000	1739	0.174	0.173	11.0%
1,1,2 TriCHLORO ETHANE	HALL	11.2	5	1590	318.1	11.2	10	3445	344.5	11.2	25	9473	378.9	347.2	8.8%
TriCHLORO ETHENE	PID	7.5	5	40	8.0	7.5	10	76	7.6	7.5	25	176	7.0	7.5	6.1%
VINYL CHLORIDE	HALL	2.0	5	808	161.5	1.9	25	3612	144.5	1.9	50	7404	148.1	151.4	5.9%
FREON 11	HALL	2.6	5	1500	300.0	2.6	25	6051	242.0	2.6	50.0	9925	198.5	246.8	20.6%
FREON 12	HALL	1.6	5	823	164.6	1.6	25	3882	155.3	1.6	50.0	7202	144.0	154.6	6.7%
FREON 113	HALL	3.0	10	1855	185.5	3.0	20	4902	245.1	3.0	50	12504	250.1	226.9	15.8%
CHLOROETHANE	HALL	2.4	5	417	83.5	2.3	10	658	65.8	2.3	50.0	2577	51.5	66.9	23.9%
BENZENE	PID	6.4	5	70	14.0	6.4	10	136	13.6	6.4	25	297	11.9	13.2	8.5%
CHLOROBENZENE	PID	13.5	5	82	16.4	13.5	10	156	15.6	13.5	25	331	13.2	15.1	10.9%
ETHYLBENZENE	PID	13.9	5	70	13.9	13.9	10	132	13.2	13.9	25	290	11.6	12.9	9.3%
TOLUENE	PID	10.1	5	69	13.7	10.1	10	130	13.0	10.1	25	284	11.4	12.7	9.6%
m&p-XYLENES	PID	14.2	10	151	15.1	14.2	20	283	14.2	14.2	50	648	13.0	14.1	7.7%
o-XYLENES	PID	15.3	5	65	13.1	15.3	10	126	12.6	15.3	25	282	11.3	12.3	7.6%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. PAUL MOSHER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

SOIL GAS CALIBRATION CURVE QUALITY CONTROL STANDARD REPORT

DATE:11/22/94, FREONS 11&12, VINYL CHLORIDE, CHLOROETHANE 09/14/94

SUPPLY SOURCE: CHEMSERVE HVOC/AVOC MIX 7/1/94 LOT# 105-31A & 110-83B

INSTRUMENT: CRUISEMASTER SHIMADZU GC14A-RIGHT

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	555.8	10	6.1	5666	566.6	1.9%
CHLOROFORM	HALL	455.3	10	5.6	4739	473.9	4.1%
DiCHLORO ETHANE (11)	HALL	446.8	10	4.4	4667	466.7	4.5%
DiCHLORO ETHANE (12)	HALL	600.3	10	6.5	5813	581.3	3.2%
DiCHLORO ETHENE (11)	PID	4.8	10	3.0	46	4.6	5.0%
DiCHLORO ETHENE (12 CIS)	PID	6.6	10	5.1	63	6.3	4.0%
DiCHLORO ETHENE (12 TRANS)	PID	10.4	10	3.8	102	10.2	2.0%
DiCHLOROMETHANE	HALL	468.2	10	3.5	4826	482.6	3.1%
TetraCHLORO ETHANE (1112)	HALL	535.0	10	13.9	5305	530.5	0.8%
TetraCHLORO ETHANE (1122)	HALL	480.9	10	17.4	4787	478.7	0.5%
TetraCHLORO ETHENE	PID	6.6	10	11.4	66	6.6	0.6%
TriCHLORO ETHANE (111)	HALL	437.5	10	5.9	4522	452.2	3.4%
TriCHLORO ETHANE (112)	HALL	347.2	10	11.2	3175	317.5	8.5%
TriCHLORO ETHENE	PID	7.5	10	7.5	76	7.6	1.0%
FREON 11	HALL	246.8	25	2.6	5724	229.0	7.2%
FREON 12	HALL	154.6	21	1.7	3015	143.6	7.1%
FREON 113	HALL	226.9	20	3.0	4995	249.7	10.1%
VINYL CHLORIDE	HALL	151.4	25	1.9	3951	158.0	4.4%
CHLOROETHANE	HALL	66.9	10	2.3	717	71.7	7.2%
BENZENE	PID	13.2	10	6.4	128	12.8	3.1%
CHLOROBENZENE	PID	15.1	10	13.5	148	14.8	2.3%
ETHYLBENZENE	PID	12.9	10	13.9	125	12.5	3.5%
TOLUENE	PID	12.7	10	10.1	125	12.5	1.5%
m&p-XYLENES	PID	14.1	20	14.2	274	13.7	3.0%
o-XYLENES	PID	12.3	10	15.3	123	12.3	0.4%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MR. PAUL MOSHER

DATA REVIEWED BY: DR. BLAYNE HARTMAN

CALIBRATION CURVE PREPARATION DATE:12/13/94, FREON 11, FREON 12, 11/05/94, VINYL CHLORIDE, AND CHLOROETHANE 8/4/94

LAB: TEG CRUISEMASTER
INSTRUMENT: GC14-LEFT

		LOW STANDARD				MID STANDARD				HIGH STANDARD					
COMPOUND	DETECTOR	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RF	%RSD
CARBON TETRACHLORIDE	HALL	7.4	5	3289	657.8	7.4	10	6893	689.3	7.4	25	16407	656.3	667.8	2.8%
CHLOROFORM	HALL	6.8	5	2849	569.7	6.8	10	5973	597.3	6.8	25	14608	584.3	583.8	2.4%
DICHLOROMETHANE	HALL	4.4	5	2151	430.3	4.4	10	4351	435.1	4.4	25	11332	453.3	439.5	2.8%
1,1 DiCHLORO ETHANE	HALL	5.4	5	2378	475.7	5.4	10	4752	475.2	5.4	25	11692	467.7	472.8	0.9%
1,2 DiCHLORO ETHANE	HALL	7.8	5	3362	672.4	7.8	10	6212	621.2	7.8	25	14074	563.0	618.9	8.8%
1,1 DiCHLORO ETHENE	PID	3.7	5	167	33.3	3.7	10	332	33.2	3.7	25	755	30.2	32.2	5.5%
Cis 1,2 DiCHLORO ETHENE	PID	6.2	5	249	49.7	6.2	10	502	50.2	6.2	25	1146	45.9	48.6	4.9%
Tr 1,2 DiCHLORO ETHENE	PID	4.7	5	408	81.7	4.7	10	803	80.3	4.7	25	1939	77.6	79.9	2.6%
TETRACHLORO ETHANE (1112)	HALL	15.6	5	2884	576.9	15.6	10	7129	712.9	15.6	25	16006	640.2	643.4	10.6%
TETRACHLORO ETHANE (1122)	HALL	19.1	5	2495	499.0	19.1	10	6271	627.1	19.1	25	13599	544.0	556.7	11.7%
TETRACHLORO ETHENE	PID	13.1	5	266	53.2	13.1	10	553	55.3	13.1	25	1277	51.1	53.2	4.0%
1,1,1 TriCHLORO ETHANE	HALL	7.1	5	2717	543.5	7.1	10	5663	566.3	7.1	25	13588	543.5	551.1	2.4%
1,1,1 TriCHLORO ETHANE	FID	1.9	500	140	0.280	1.9	2500	605	0.242	1.9	10000	2662	0.266	0.263	7.4%
1,1,2 TriCHLORO ETHANE	HALL	12.8	5	2282	456.4	12.8	10	5057	505.7	12.8	25	11757	470.3	477.5	5.3%
TriCHLORO ETHENE	PID	8.9	5	298	59.5	9.0	10	609	60.9	8.9	25	1451	58.0	59.5	2.4%
VINYL CHLORIDE	HALL	2.5	5	1050	210.0	2.5	25	5410	216.4	2.4	50	8166	163.3	196.6	14.7%
FREON 11	HALL	3.3	5	9134	1826.9	3.3	15	21331	1422.1	3.3	25	34979	1399.2	1549.4	15.5%
FREON 12	HALL	2.2	5	5044	1008.8	2.2	13	10098	776.7	2.2	21	18381	875.3	886.9	13.1%
FREON 113	HALL	3.8	10	2211	221.1	3.8	20	4869	243.5	3.8	50	13256	265.1	243.2	9.1%
CHLOROETHANE	HALL	2.9	5	208	41.5	2.8	10	572	57.2	2.7	50	3210	64.2	54.3	21.4%
BENZENE	PID	7.7	5	544	108.8	7.7	10	1082	108.2	7.7	25	2453	98.1	105.0	5.7%
CHLOROBENZENE	PID	15.3	5	619	123.9	15.3	10	1252	125.2	15.3	25	2827	113.1	120.7	5.5%
ETHYLBENZENE	PID	15.6	5	528	105.6	15.7	10	1035	103.5	15.7	25	2390	95.6	101.6	5.2%
TOLUENE	PID	11.7	5	540	108.0	11.7	10	1079	107.9	11.7	25	2520	100.8	105.6	3.9%
m&p-XYLENES	PID	16.0	10	1237	123.7	16.0	20	2446	122.3	16.0	50	5614	112.3	119.4	5.2%
o-XYLENES	PID	17.1	5	523	104.7	17.1	10	1031	103.1	17.1	25	2405	96.2	101.3	4.4%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. PAUL MOSHER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

SOIL GAS CALIBRATION CURVE QUALITY CONTROL STANDARD REPORT

DATE:12/13/94, FREON 11, FREON 12 11/05/94, VINYL CHLORIDE, AND CHLOROETHANE 08/04/94
SUPPLY SOURCE: CHEMSERVE HVOC/AVOC MIX 7/1/94 LOT# 105-31A & 110-83B
INSTRUMENT: CRUISEMASTER SHIMADZU GC14A-LEFT

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	667.8	10	7.4	6560	656.0	1.8%
CHLOROFORM	HALL	583.8	10	6.8	5647	564.7	3.3%
DiCHLORO ETHANE (11)	HALL	472.8	10	5.4	4515	451.5	4.5%
DiCHLORO ETHANE (12)	HALL	618.9	10	7.8	5588	558.8	9.7%
DiCHLORO ETHENE (11)	PID	32.2	10	3.7	311	31.1	3.4%
DiCHLORO ETHENE (12 CIS)	PID	48.6	10	6.2	491	49.1	1.0%
DiCHLORO ETHENE (12 TRANS)	PID	79.9	10	4.7	825	82.5	3.2%
DiCHLOROMETHANE	HALL	439.5	10	4.4	4459	445.9	1.5%
TetraCHLORO ETHANE (1112)	HALL	643.4	10	15.6	6242	624.2	3.0%
TetraCHLORO ETHANE (1122)	HALL	556.7	10	19.1	5601	560.1	0.6%
TetraCHLORO ETHENE	PID	53.2	10	13.1	531	53.1	0.3%
TriCHLORO ETHANE (111)	HALL	551.1	10	7.1	5227	522.7	5.2%
TriCHLORO ETHANE (111)	FID	0.263	2000	2.0	532	0.266	1.2%
TriCHLORO ETHANE (112)	HALL	477.5	10	12.8	4529	452.9	5.2%
TriCHLORO ETHENE	PID	59.5	10	8.9	588	58.8	1.1%
FREON 12	HALL	886.9	8	2.2	7540	942.5	6.3%
FREON 11	HALL	1549.4	10	3.3	13806	1380.6	10.9%
FREON 113	HALL	243.2	20	3.8	4986	249.3	2.5%
VINYL CHLORIDE	HALL	196.6	25	2.4	4820	192.8	1.9%
CHLOROETHANE	HALL	54.3	10	2.8	573	57.3	5.6%
BENZENE	PID	105.0	10	7.7	1059	105.9	0.8%
CHLOROBENZENE	PID	120.7	10	15.3	1217	121.7	0.8%
ETHYLBENZENE	PID	101.6	10	15.6	1004	100.4	1.2%
TOLUENE	PID	105.6	10	11.7	1048	104.8	0.8%
m&p-XYLENES	PID	119.4	20	16.0	2397	119.9	0.4%
o-XYLENES	PID	101.3	10	17.1	993	99.3	1.9%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. PAUL MOSHER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

CALIBRATION CURVE DATE: 11/28/94 (* 11/01/94)

LAB: TEG TIOGA 3
INSTRUMENT: GC14

COMPOUND	DETECTOR	LOW STANDARD RT	MASS	AREA	RF	MID STANDARD RT	MASS	AREA	RF	HIGH STANDARD RT	MASS	AREA	RF	SUMMARY AVE RF	SD	%RSD
CARBON TetraCHLORIDE	HALL	6.4	5	5491	1098.1	6.4	20	19450	972.5	6.4	40	40376	1009.4	1026.7	64.6	6.3%
CHLOROETHANE*	HALL	2.5	5	869	173.8	2.5	31	4809	155.1	2.5	63	13606	216.0	181.6	31.2	17.2%
CHLOROFORM	HALL	5.9	5	3975	795.0	5.9	20	14914	745.7	5.9	40	30026	750.7	763.8	27.2	3.6%
DiCHLORODiFLUORO METHANE*	HALL	1.9	4	1559	389.8	1.8	26	7357	283.0	1.8	51	14560	285.5	319.4	60.9	19.1%
DiCHLORO ETHANE (11)	HALL	4.6	5	3364	672.7	4.6	20	13199	659.9	4.6	40	27214	680.4	671.0	10.3	1.5%
DiCHLORO ETHANE (12)	HALL	6.8	5	4573	914.5	6.8	20	15264	763.2	6.8	40	31156	778.9	818.9	83.2	10.2%
DiCHLORO ETHENE (11)	PID	3.1	5	80	16.1	3.1	20	318	15.9	3.1	40	662	16.6	16.2	0.3	2.0%
DiCHLORO ETHENE (12 Cis)	PID	5.3	5	139	27.7	5.3	20	492	24.6	5.3	40	1028	25.7	26.0	1.6	6.1%
DiCHLORO ETHENE (12 Trans)	PID	4.0	5	209	41.9	4.0	20	808	40.4	4.0	40	1668	41.7	41.3	0.8	2.0%
DiCHLORO METHANE	HALL	3.7	5	3247	649.4	3.7	20	13012	650.6	3.7	40	26006	650.2	650.1	0.6	0.1%
TetraCHLORO ETHANE (1112)	HALL	14.1	5	4904	980.8	14.2	20	20833	1041.6	14.2	40	40692	1017.3	1013.2	30.6	3.0%
TetraCHLORO ETHANE (1122)	HALL	17.6	5	5084	1016.8	17.6	20	18246	912.3	17.6	40	36520	913.0	947.4	60.2	6.4%
TetraCHLORO ETHENE	PID	11.7	5	136	27.2	11.7	20	555	27.7	11.7	40	1089	27.2	27.4	0.3	1.1%
TriCHLORO ETHANE (111)	HALL	6.1	5	3909	781.7	6.1	20	16330	816.5	6.1	40	32318	807.9	802.1	18.1	2.3%
TriCHLORO ETHANE (112)	HALL	11.4	5	3864	772.8	11.5	20	14672	733.6	11.4	40	32738	818.5	774.9	42.5	5.5%
TriCHLORO ETHENE	PID	7.8	5	154	30.7	7.8	20	583	29.1	7.8	40	1222	30.5	30.1	0.9	2.9%
TriCHLOROFLUORO METHANE*	HALL	2.8	5	2067	413.4	2.7	29	9769	336.9	2.8	58	20584	354.9	368.4	40.0	10.9%
TriCHLOROTriFLUORO ETHANE	HALL	3.1	5	2207	441.5	3.1	20	8602	430.1	3.1	40	17158	428.9	433.5	6.9	1.6%
VINYL CHLORIDE*	PID	2.0	4	760	190.0	2.1	27	6108	226.2	2.1	55	13826	251.4	222.5	30.9	13.9%
BENZENE	PID	6.6	5	277	55.5	6.7	20	1038	51.9	6.7	40	2190	54.7	54.0	1.9	3.5%
CHLOROBENZENE	PID	13.8	5	299	59.9	13.9	20	1124	56.2	13.8	40	2298	57.5	57.8	1.9	3.2%
ETHYLBENZENE	PID	14.2	5	256	51.2	14.2	20	971	48.6	14.2	40	1957	48.9	49.6	1.4	2.9%
TOLUENE	PID	10.4	5	272	54.4	10.4	20	1017	50.9	10.4	40	2125	53.1	52.8	1.8	3.4%
m&p-XYLENES	PID	14.5	10	590	59.0	14.5	40	2211	55.3	14.5	80	4605	57.6	57.3	1.9	3.3%
o-XYLENES	PID	15.6	5	262	52.3	15.6	20	993	49.7	15.6	40	2034	50.9	50.9	1.3	2.6%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MR. JOHN SCHOLL
DATA REVIEWED BY: DR. BLAYNE HARTMAN

SOIL GAS INITIAL LCS REPORT

DATE: 11/28/94 (* 11/01/94)

SUPPLY SOURCE: CHEM-SERVE 8010/8020 MIX

INSTRUMENT: TIOGA 3 SHIMADZU GC14A

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TetraCHLORIDE	HALL	1026.7	20	6.4	20059	1002.9	2.3%
CHLOROETHANE*	HALL	181.6	20	2.5	3604	180.2	0.8%
CHLOROFORM	HALL	763.8	20	5.9	15720	786.0	2.9%
DiCHLORODiFLOURO METHANE*	HALL	319.4	20	1.8	6510	325.5	1.9%
DiCHLORO ETHANE (11)	HALL	671.0	20	4.6	13491	674.6	0.5%
DiCHLORO ETHANE (12)	HALL	818.9	20	6.8	15284	764.2	6.7%
DiCHLORO ETHENE (11)	PID	16.2	20	3.1	334	16.7	3.0%
DiCHLORO ETHENE (Cis 12)	PID	26.0	20	5.3	520	26.0	0.0%
DiCHLORO ETHENE (Trans 12)	PID	41.3	20	4.0	839	41.9	1.6%
DiCHLORO METHANE	HALL	650.1	20	3.7	14196	709.8	9.2%
TetraCHLORO ETHANE (1112)	HALL	1013.2	20	14.2	22689	1134.5	12.0%
TetraCHLORO ETHANE (1122)	HALL	947.4	20	17.6	19816	990.8	4.6%
TetraCHLORO ETHENE	PID	27.4	20	11.7	557	27.8	1.6%
TriCHLORO ETHANE (111)	HALL	802.1	20	6.1	15403	770.1	4.0%
TriCHLORO ETHANE (112)	HALL	774.9	20	11.5	17589	879.4	13.5%
TriCHLORO ETHENE	PID	30.1	20	7.8	621	31.0	3.1%
TriCHLOROFLOURO METHANE *	HALL	368.0	20	2.7	8380	419.0	13.9%
TriCHLOROTriFLOURO ETHANE	HALL	433.5	20	3.2	9951	497.6	14.8%
VINYL CHLORIDE*	HALL	222.0	26	2.1	5899	226.9	2.2%
BENZENE	PID	54.0	20	6.7	1100	55.0	1.8%
ETHYLBENZENE	PID	49.6	20	14.2	1019	50.9	2.7%
TOLUENE	PID	52.8	20	10.4	1088	54.4	3.1%
m&p-XYLENES	PID	57.3	40	14.5	2378	59.5	3.8%
o-XYLENES	PID	50.9	20	15.6	1058	52.9	3.9%

ANALYSES PERFORMED ON-SITE IN TEG'S DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)

ANALYSES PERFORMED BY: MR. JOHN SCHOLL

DATA REVIEWED BY: DR. BLAYNE HARTMAN

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, teg

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

ADDRESS: 3000 W MacArthur Blvd Santa Ana Ca 92704

PHONE: 714 662-4141 FAX: (714) 662-4049

CLIENT PROJECT #: PROJECT MANAGER: Bob Randolph

DATE: 12/20/94 PAGE 1 OF 1

TEG PROJECT #: 941220-CW/1 941081

LOCATION: Jet Propulsion Labs

COLLECTOR: TK DATE OF COLLECTION: 12/20/94

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	Volume withdrawn FIELD NOTES	Total Number Of Containers	Laboratory Number
Blank		0733	vapor	syringe	X	X														60 cc		
VPSV-1	10	0903			X	X														80 cc		
Blank		0910			X	X														60 cc		
VPSV-2	21'	0930			X	X														80 cc		
VPSV-3	10'	0959			X	X														40 cc		
VPSV-4	22'	1000			X	X														80 cc		
VPSV-5	37'	1025			X	X														150 cc		
VPSV-6	37	1035			X	X														Dup of VPSV-5		
VPSV-7	16	1047			X	X														65 cc		
VPSV-8	11	1118			X	X														45 cc		
VPSV-9	20	1120			X	X														80 cc		
VPSV-10	35	1153			X	X														140 cc		
VPSV-11	5	1213			X	X														20 cc		
VPSV-12	5	1224			X	X														20 cc Dupat VPSV 11		
VPSV-13	9	1239			X	X														40 cc		
VPSV-14	20	1324			X	X														80 cc		
VPSV-15	34	1325			X	X														140 cc		
VPSV-16	20	1408			X	X														80 cc		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

1656 12-20-94

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler
ADDRESS: 3000 W. MacArthur BLVD Santa Ana 92704
PHONE: (714) 662 4141 FAX: (714) 662-4049
CLIENT PROJECT #: PROJECT MANAGER: BG Randolph

DATE: 12 20 94 PAGE 2 OF 2
TEG PROJECT #: 941220-CM/941081
LOCATION: Jet Propulsion Labs
COLLECTOR: T.K. DATE OF COLLECTION: 12/20/94

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Number
VPSV-17	30	1410	Vapor		X	X														120cc purge		
VPSV-18	30	1412			X	X														120cc purge Dupe of 17		
VPSV-19	50	1414			X	X														200cc purge		
VPSV-20	70	1513			X	X														280cc		
VPSV-21	90	1517			X	X														360cc		
VPSV-22	20	1550			X	X														80 cc		
VPSV-23	40	1555			X	X														160 cc		
VPSV-24	40	1617			X	X														160cc Dup of 23		
VPSV-25	60	1620			X	X														240 cc		
VPSV-26	77	1644			X	X														300cc		
VPSV-27	96	1646			X	X														420cc		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME
McPher 12-20-94 1656

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS
CHAIN OF CUSTODY SEALS Y/N/NA
SEALS INTACT? Y/N/NA
RECEIVED GOOD COND./COLD
NOTES:

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler
ADDRESS: 3000 W. MacArthur Blvd Sta Ana Ca 92074
PHONE: (714) 662-4141 FAX: 714 662 4049
CLIENT PROJECT #: PROJECT MANAGER: BG Randolph

DATE: 12/21/94 PAGE 1 OF 2
TEG PROJECT #: 941220-CM
LOCATION: JPL
COLLECTOR: TK DATE OF COLLECTION: 12/21/94

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Number
VPSV 28	20	725	Vapor	syringe	X	X														Purge 80 cc		
VPSV 29	35	~~728~~ 0801																		Purge 140 cc		
VPSV 30	35	0802																		140 cc Dup of 29		
VPSV 31	50	824																		200 cc		
VPSV 32	70	825																		280 cc		
VPSV 33	10	855																		40 cc		
VPSV 34	20	920																		80 cc		
VPSV 35	30	925																		120 cc		
VPSV 36	30	9415																		120 cc Dup of 36		
VPSV 37	40	958																		160 cc		
VPSV 38	20	1012																		80 cc Purge		
VPSV 39	35	1018																		140 cc Purge		
VPSV 40	50	1040																		200 cc Purge		
VPSV - 41	70	1056																		280 cc Purge		
VPSV - 42	70	1127																		280 cc Dup of 42		
VPSV - 43	87'	1128																		360 cc		
VPSV - 44	5	1243																		20 cc		
VPSV - 45	10	1245																		40 cc		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME
Pa Moher 12-21-94 1719

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS
CHAIN OF CUSTODY SEALS Y/N/NA
SEALS INTACT? Y/N/NA
RECEIVED GOOD COND./COLD
NOTES:

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler
ADDRESS: 3000 W. MacArthur Blvd. Sta Ana Ca 92704
PHONE: (714) 662 4141 FAX: (714) 662 4049
CLIENT PROJECT #: PROJECT MANAGER: BG Randolph

DATE: 12/21/94 PAGE 2 OF 2
TEG PROJECT #: 94/220-CM
LOCATION: JPL
COLLECTOR: TK DATE OF COLLECTION: 12/21/94

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Number
VPSV-46	13	1316	Vapor	syringe	X	X														60 cc purge		
VPSV-47	12	1315																		50 cc purge		
VPSV-48	12	1340																		50 cc Dup of VPSV 47		
VPSV-49	24	1341																		100 cc purge		
VPSV-50	36	1412																		160 cc purge		
VPSV-51	20	1421																		80 cc purge		
VPSV-52	40	1447																		160 cc purge		
VPSV-53	60	1512																		240 cc purge		
VPSV-54	60	1513																		240 cc Dup of VPSV 53		
VPSV 55	96	1545																		400 cc purge		
VPSV 56	20	1610																		80 cc purge		
VPSV 57	40	1617																		160 purge		
VPSV 58	60	1625																		240 cc purge		
VPSV 59	80	1645																		320 cc purge		
VPSV 60	80	1710																		320 cc purge Dup of VPSV 59		
VPSV 61	95	1715																		400 cc purge		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME
Pa Mosher 12-21-94 1719
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS
☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

~~SAMPLE RECEIPT~~
TOTAL NUMBER OF CONTAINERS
CHAIN OF CUSTODY SEALS Y/N/NA
SEALS INTACT? Y/N/NA
RECEIVED GOOD COND./COLD
NOTES:

~~LABORATORY NOTES:~~

teg

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 12/22/94 PAGE 1

TEG PROJECT #: 941219CM

LOCATION: JPL, Pasadena

COLLECTOR: BG Randolph DATE OF COLLECTION: 12/22/94

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	Volume withdrawn FIELD NOTES	Total Number Of Containers	Laboratory Note Number
Blank		0700	vapor	syringe	X	X														20 cc		
VPSV-62	5	0752			X	X														20 cc		
VPSV-63	11	0754			X	X														50		
VPSV-64	17	0828			X	X														80		
VPSV-65	20	0855			X	X														80 ~~Duplicate~~		
VPSV-66	20	0907			X	X														80 Duplicate		
VPSV-67	40	0924			X	X														160		
VPSV-68	60	0935			X	X														240		
VPSV-69	76	0950			X	X														320		
VPSV-70	20	1033			X	X														80		
VPSV-71	40	1035			X	X														160		
VPSV-72	40	1059			X	X														160 Duplicate		
VPSV-73	60	1102			X	X														240		
VPSV-74	96	1138			X	X														400		
VPSV-75	20	1211			X	X														80		
VPSV-76	40	1213			X	X														160		
VPSV-77	60	1243			X	X														240		
VPSV-78	60	1249			X	X														240		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

12/22/94 1715

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

teg

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 12/22/94 PAGE 2 OF 2

TEG PROJECT #: 941219CN

LOCATION: JPL, Pasadena

COLLECTOR: BG Randolph DATE OF COLLECTION: 12/22/94

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	Volume withdrawn FIELD NOTES	Total Number Of Containers	Laboratory Note Number
VPSV - 79	75	1314	Vapor	Syringe	X	X														300 cc		
VPSV - 80	90	1325			X	X														360		
VPSV - 81	20	1430			X	X														80		
VPSV - 82	40	1434			X	X														160		
VPSV - 83	60	1506			X	X														240		
VPSV - 84	60	1510			X	X														240 Duplicate		
VPSV - 85	80	1534			X	X														320		
VPSV - 86	95	1541			X	X														400		
VPSV - 87	20	1607			X	X														80		
VPSV - 88	40	1613			X	X														160		
VPSV - 89	55	1633			X	X														220		
VPSV - 90	55	1641			X	X														220		
VPSV - 91	70	1656			X	X														280		
VPSV - 92	85	1704			X	X														340		

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
		PA Mahler	12/22/94 1715
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

teg

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 12/29/94 PAGE 1 OF 2

TEG PROJECT #: 9412~~20~~19CM

LOCATION: JPL Pasadena

COLLECTOR: Paul Mosher DATE OF COLLECTION: 12/29/94

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS							FIELD NOTES Purge Vol	Total Number Of Containers	Laboratory Note Number
Blank	–	0645	Vapor	Syringe	X	X																				60		
VPSV 93	10	0710	"	"	X	X																				40		
VPSV 94	30	0750			X	X																				120		
VPSV-95	37	0808			X	X																				160		
VPSV-96	20	0835			X	X																				80		
VPSV-97	20	0856			X	X																				(Duplicate) 80		
VPSV-98	30	0918			X	X																				120		
VPSV-99	47	0943			X	X																				200		
VPSV-100	20	1029			X	X																				100		
VPSV-101	40	1051			X	X																				180		
VPSV-102	60	1116			X	X																				260		
VPSV-103	60	1141			X	X																				(dup) 260		
VPSV-104	80	1201			X	X																				340		
VPSV-105	95	1217			X	X																				400		
VPSV-106	20	1345			X	X																				80		
VPSV-107	40	1403			X	X																				160		
VPSV-108	40	1427			X	X																				(Dup) 160		
VPSV-109	55	1451			X	X																				220		

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
		P. Mosher	12/29/94 1602
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, teg

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 12/29/94 PAGE 2 OF 2

TEG PROJECT #: 94/1219TM

LOCATION: JPL Pasadena

COLLECTOR: Paul Mosher DATE OF COLLECTION: 12/29/94

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Note Number
VPSV-110	70'	1513	Vapor	Syringe	Y	Y														280		
VPSV-111	85'	1538			X	Y														340		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

Pa Mosher 12/29/94 1602

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

APPENDIX C2

SOIL VAPOR DATA REPORT, EVENT 3, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

(SEE CD ROM)

CALIBRATION CURVE PREPARATION DATE:03/07/95, FREONS 11, 12, VINYL CHLORIDE, CHLOROETHANE 09/14/94

LAB: TEG CRUISEMASTER
INSTRUMENT: GC14-RIGHT

		LOW STANDARD				MID STANDARD				HIGH STANDARD					
COMPOUND	DETECTOR	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RF	%RSD
CARBON TETRACHLORIDE	HALL	6.2	5	1892	378.3	6.2	20	8161	408.0	6.2	40	15879	397.0	394.4	3.8%
CHLOROFORM	HALL	5.7	5	1407	281.4	5.7	20	6314	315.7	5.7	40	12702	317.6	304.9	6.7%
DICHLOROMETHANE	HALL	3.6	5	1401	280.3	3.6	20	6227	311.4	3.6	40	12864	321.6	304.4	7.1%
1,1 DiCHLORO ETHANE	HALL	4.4	5	1528	305.5	4.4	20	5751	287.5	4.4	40	12290	307.2	300.1	3.6%
1,2 DiCHLORO ETHANE	HALL	6.6	5	1695	338.9	6.6	20	7752	387.6	6.6	40	13356	333.9	353.5	8.4%
1,1 DiCHLORO ETHENE	PID	3.0	5	18	3.6	3.0	20	76	3.8	3.0	40	129	3.2	3.5	8.0%
Cis 1,2 DiCHLORO ETHENE	PID	5.2	5	21	4.3	5.2	20	93	4.7	5.2	40	161	4.0	4.3	7.4%
Tr 1,2 DiCHLORO ETHENE	PID	3.8	5	35	7.1	3.8	20	148	7.4	3.9	40	275	6.9	7.1	3.7%
TETRACHLORO ETHANE (1112)	HALL	14.1	5	1751	350.1	14.2	20	8200	410.0	14.1	40	18985	474.6	411.6	15.1%
TETRACHLORO ETHANE (1122)	HALL	17.7	5	1501	300.2	17.8	20	6323	316.2	17.7	40	16698	417.4	344.6	18.5%
TETRACHLORO ETHENE	PID	11.6	5	22	4.4	11.6	20	91	4.6	11.6	40	167	4.2	4.4	4.6%
1,1,1 TriCHLORO ETHANE	HALL	6.0	5	1384	276.8	6.0	20	6443	322.1	6.0	40	12719	318.0	305.6	8.2%
1,1,2 TriCHLORO ETHANE	HALL	11.4	5	928	185.7	11.4	20	5071	253.5	11.4	40	10754	268.9	236.0	18.8%
TriCHLORO ETHENE	PID	7.7	5	25	5.0	7.7	20	107	5.3	7.7	40	193	4.8	5.1	5.3%
VINYL CHLORIDE	HALL	2.0	5	808	161.5	1.9	25	3612	144.5	1.9	50	7404	148.1	151.4	5.9%
FREON 11	HALL	2.6	5	1500	300.0	2.6	25	6051	242.0	2.6	50	9925	198.5	246.8	20.6%
FREON 12	HALL	1.6	5	823	164.6	1.6	25	3882	155.3	1.6	50	7202	144.0	154.6	6.7%
FREON 113	HALL	3.0	10	1718	171.8	3.0	40	6686	167.1	3.0	80	16974	212.2	183.7	13.5%
CHLOROETHANE	HALL	2.4	5	417	83.5	2.3	10	658	65.8	2.3	50	2577	51.5	66.9	23.9%
BENZENE	PID	6.5	5	44	8.8	6.5	20	181	9.1	6.5	40	332	8.3	8.7	4.6%
CHLOROBENZENE	PID	13.8	5	49	9.7	13.9	20	209	10.4	13.8	40	386	9.7	9.9	4.3%
ETHYLBENZENE	PID	14.2	5	41	8.3	14.2	20	176	8.8	14.2	40	319	8.0	8.3	4.9%
TOLUENE	PID	10.3	5	42	8.4	10.3	20	175	8.7	10.3	40	328	8.2	8.5	3.2%
m&p-XYLENES	PID	14.5	10	92	9.2	14.6	40	388	9.7	14.5	80	728	9.1	9.3	3.5%
o-XYLENES	PID	15.6	5	41	8.3	15.6	20	173	8.7	15.6	40	324	8.1	8.3	3.5%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. PAUL MOSHER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

SOIL GAS INITIAL LCS STANDARD REPORT

DATE:03/07/95, FREONS 11&12, VINYL CHLORIDE, CHLOROETHANE 09/14/94
SUPPLY SOURCE: CHEMSERVE HVOC/AVOC MIX 7/1/94 LOT# 105-31A & 110-83B
INSTRUMENT: CRUISEMASTER SHIMADZU GC14A-RIGHT

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	394.4	20	6.3	8837	441.9	12.0%
CHLOROFORM	HALL	304.9	20	5.7	7008	350.4	14.9%
DiCHLORO ETHANE (11)	HALL	300.1	20	4.5	6150	307.5	2.5%
DiCHLORO ETHANE (12)	HALL	353.5	20	6.6	7556	377.8	6.9%
DiCHLORO ETHENE (11)	PID	3.5	20	3.0	65	3.3	6.6%
DiCHLORO ETHENE (12 CIS)	PID	4.3	20	5.2	86	4.3	0.5%
DiCHLORO ETHENE (12 TRANS)	PID	7.1	20	3.9	145	7.2	1.9%
DiCHLOROMETHANE	HALL	304.4	20	3.6	6510	325.5	6.9%
TetraCHLORO ETHANE (1112)	HALL	411.6	20	14.2	7811	390.5	5.1%
TetraCHLORO ETHANE (1122)	HALL	344.6	20	17.7	6650	332.5	3.5%
TetraCHLORO ETHENE	PID	4.4	20	11.6	89	4.4	1.1%
TriCHLORO ETHANE (111)	HALL	305.6	20	6.0	6716	335.8	9.9%
TriCHLORO ETHANE (112)	HALL	236.0	20	11.4	4471	223.5	5.3%
TriCHLORO ETHENE	PID	5.1	20	7.7	103	5.1	1.0%
FREON 11	HALL	246.8	25	2.6	5724	229.0	7.2%
FREON 12	HALL	154.6	21	1.7	3015	143.6	7.1%
FREON 113	HALL	183.7	40	3.1	8119	203.0	10.5%
VINYL CHLORIDE	HALL	151.4	25	1.9	3951	158.0	4.4%
CHLOROETHANE	HALL	66.9	10	2.3	717	71.7	7.2%
BENZENE	PID	8.7	20	6.5	172	8.6	1.0%
CHLOROBENZENE	PID	9.9	20	13.8	200	10.0	1.2%
ETHYLBENZENE	PID	8.3	20	14.2	171	8.6	3.2%
TOLUENE	PID	8.5	20	10.4	175	8.7	2.9%
m&p-XYLENES	PID	9.3	40	14.5	386	9.7	3.8%
o-XYLENES	PID	8.3	20	15.6	167	8.4	0.7%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. PAUL MOSHER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

CALIBRATION CURVE PREPARATION DATE:03/07/95, FREON 11, FREON 12, 11/05/94, VINYL CHLORIDE, AND CHLOROETHANE 8/4/94

LAB: TEG CRUISEMASTER
INSTRUMENT: GC14-LEFT

		LOW STANDARD				MID STANDARD				HIGH STANDARD					
COMPOUND	DETECTOR	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RF	%RSD
CARBON TETRACHLORIDE	HALL	7.3	5	3126	625.2	7.3	20	12490	624.5	7.3	40	24524	613.1	620.9	1.1%
CHLOROFORM	HALL	6.7	5	2470	494.1	6.7	20	9983	499.2	6.7	40	22088	552.2	515.1	6.2%
DICHLOROMETHANE	HALL	4.4	5	1872	374.3	4.4	20	7588	379.4	4.4	40	17262	431.5	395.1	8.0%
1,1 DiCHLORO ETHANE	HALL	5.3	5	2205	440.9	5.3	20	8809	440.4	5.3	40	19104	477.6	453.0	4.7%
1,2 DiCHLORO ETHANE	HALL	7.7	5	2853	570.5	7.7	20	10587	529.3	7.7	40	21708	542.7	547.5	3.8%
1,1 DiCHLORO ETHENE	PID	3.8	5	42	8.4	3.7	20	166	8.3	3.7	40	362	9.1	8.6	4.9%
Cis 1,2 DiCHLORO ETHENE	PID	6.1	5	54	10.8	6.1	20	215	10.7	6.1	40	462	11.5	11.0	4.1%
Tr 1,2 DiCHLORO ETHENE	PID	4.7	5	93	18.5	4.7	20	371	18.5	4.7	40	776	19.4	18.8	2.7%
TETRACHLORO ETHANE (1112)	HALL	15.4	5	3126	625.2	15.5	20	12841	642.0	15.4	40	23962	599.0	622.1	3.5%
TETRACHLORO ETHANE (1122)	HALL	18.9	5	2735	547.0	18.9	20	11149	557.5	18.9	40	22432	560.8	555.1	1.3%
TETRACHLORO ETHENE	PID	12.9	5	60	12.0	12.9	20	240	12.0	12.9	40	504	12.6	12.2	2.9%
1,1,1 TriCHLORO ETHANE	HALL	7.0	5	2455	491.1	7.0	20	9904	495.2	7.0	40	20562	514.0	500.1	2.5%
1,1,2 TriCHLORO ETHANE	HALL	12.6	5	2356	471.2	12.6	20	10535	526.7	12.6	40	20538	513.4	503.8	5.8%
TriCHLORO ETHENE	PID	8.8	5	66	13.1	8.8	20	277	13.9	8.8	40	571	14.3	13.8	4.2%
VINYL CHLORIDE	HALL	2.5	5	1050	210.0	2.5	25	5410	216.4	2.4	50	8166	163.3	196.6	14.7%
FREON 11	HALL	3.3	5	9134	1826.9	3.3	15	21331	1422.1	3.3	25	34979	1399.2	1549.4	15.5%
FREON 12	HALL	2.2	5	5044	1008.8	2.2	13	10098	776.7	2.2	21	18381	875.3	886.9	13.1%
FREON 113	HALL	3.8	10	2692	269.2	3.8	40	10793	269.8	3.7	80	25191	314.9	284.6	9.2%
CHLOROETHANE	HALL	2.9	5	208	41.5	2.8	10	572	57.2	2.7	50	3210	64.2	54.3	21.4%
BENZENE	PID	7.6	5	116	23.3	7.6	20	467	23.4	7.6	40	998	24.9	23.9	3.9%
CHLOROBENZENE	PID	15.1	5	138	27.6	15.1	20	568	28.4	15.1	40	1155	28.9	28.3	2.3%
ETHYLBENZENE	PID	15.4	5	117	23.3	15.5	20	466	23.3	15.4	40	1028	25.7	24.1	5.7%
TOLUENE	PID	11.6	5	117	23.4	11.6	20	491	24.6	11.6	40	1030	25.7	24.6	4.8%
m&p-XYLENES	PID	15.8	10	271	27.1	15.8	40	1133	28.3	15.8	80	2324	29.1	28.2	3.4%
o-XYLENES	PID	16.9	5	121	24.2	16.9	20	481	24.1	16.9	40	1068	26.7	25.0	6.0%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. PAUL MOSHER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

SOIL GAS INITIAL LCS STANDARD REPORT

DATE:03/07/95, FREON 11, FREON 12 11/05/94, VINYL CHLORIDE, AND CHLOROETHANE 08/04/94
SUPPLY SOURCE: CHEMSERVE HVOC/AVOC MIX 7/1/94 LOT# 105-31A & 110-83B
INSTRUMENT: CRUISEMASTER SHIMADZU GC14A-LEFT

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	620.9	20	7.3	13151	657.6	5.9%
CHLOROFORM	HALL	515.1	20	6.7	11129	556.5	8.0%
DiCHLORO ETHANE (11)	HALL	453.0	20	5.3	9925	496.3	9.5%
DiCHLORO ETHANE (12)	HALL	547.5	20	7.7	11729	586.4	7.1%
DiCHLORO ETHENE (11)	PID	8.6	20	3.7	169	8.4	1.8%
DiCHLORO ETHENE (12 CIS)	PID	11.0	20	6.1	235	11.8	7.0%
DiCHLORO ETHENE (12 TRANS)	PID	18.8	20	4.7	392	19.6	4.1%
DiCHLOROMETHANE	HALL	395.1	20	4.4	9038	451.9	14.4%
TetraCHLORO ETHANE (1112)	HALL	622.1	20	15.4	13774	688.7	10.7%
TetraCHLORO ETHANE (1122)	HALL	555.1	20	18.9	12208	610.4	10.0%
TetraCHLORO ETHENE	PID	12.2	20	12.9	256	12.8	5.1%
TriCHLORO ETHANE (111)	HALL	500.1	20	7.0	11010	550.5	10.1%
TriCHLORO ETHANE (112)	HALL	503.8	20	12.6	10878	543.9	8.0%
TriCHLORO ETHENE	PID	13.8	20	8.8	286	14.3	3.6%
FREON 12	HALL	886.9	8	2.2	7540	942.5	6.3%
FREON 11	HALL	1549.4	10	3.3	13806	1380.6	10.9%
FREON 113	HALL	284.6	40	3.8	12130	303.2	6.6%
VINYL CHLORIDE	HALL	196.6	25	2.4	4820	192.8	1.9%
CHLOROETHANE	HALL	54.3	10	2.8	573	57.3	5.6%
BENZENE	PID	23.9	20	7.6	510	25.5	6.6%
CHLOROBENZENE	PID	28.3	20	15.1	614	30.7	8.6%
ETHYLBENZENE	PID	24.1	20	15.4	526	26.3	9.1%
TOLUENE	PID	24.6	20	11.6	512	25.6	4.1%
m&p-XYLENES	PID	28.2	40	15.8	1198	29.9	6.2%
o-XYLENES	PID	25.0	20	16.9	536	26.8	7.2%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. PAUL MOSHER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

CALIBRATION CURVE PREPARATION DATE:03/08/95, FREON 11, FREON 12, 11/05/94, VINYL CHLORIDE, AND CHLOROETHANE 8/4/94

LAB: TEG CRUISEMASTER
INSTRUMENT: GC14-LEFT

		LOW STANDARD				MID STANDARD				HIGH STANDARD					
COMPOUND	DETECTOR	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RF	%RSD
CARBON TETRACHLORIDE	HALL	7.3	5	2508	501.5	7.3	20	10777	538.9	7.3	40	26149	653.7	564.7	14.0%
CHLOROFORM	HALL	6.7	5	1909	381.8	6.7	20	9399	470.0	6.7	40	22759	569.0	473.6	19.8%
DICHLOROMETHANE	HALL	4.3	5	1749	349.7	4.3	20	6925	346.2	4.3	40	14305	357.6	351.2	1.7%
1,1 DiCHLORO ETHANE	HALL	5.3	5	1987	397.4	5.3	20	7061	353.1	5.3	40	18644	466.1	405.5	14.0%
1,2 DiCHLORO ETHANE	HALL	7.7	5	2789	557.8	7.6	20	9840	492.0	7.6	40	18144	453.6	501.1	10.5%
1,1 DiCHLORO ETHENE	PID	3.6	5	80	15.9	3.7	20	255	12.8	3.6	40	634	15.9	14.8	12.2%
Cis 1,2 DiCHLORO ETHENE	PID	6.1	5	103	20.7	6.1	20	359	18.0	6.1	40	801	20.0	19.5	7.3%
Tr 1,2 DiCHLORO ETHENE	PID	4.6	5	173	34.7	4.6	20	583	29.2	4.6	40	1449	36.2	33.3	11.1%
TETRACHLORO ETHANE (1112)	HALL	15.4	5	2378	475.5	15.4	20	11117	555.8	15.4	40	21261	531.5	521.0	7.9%
TETRACHLORO ETHANE (1122)	HALL	18.9	5	2010	402.1	18.9	20	9213	460.7	18.9	40	17909	447.7	436.8	7.0%
TETRACHLORO ETHENE	PID	12.9	5	110	22.0	12.9	20	390	19.5	12.9	40	837	20.9	20.8	6.0%
1,1,1 TriCHLORO ETHANE	HALL	7.0	5	1993	398.6	7.0	20	9158	457.9	7.0	40	22585	564.6	473.7	17.8%
1,1,2 TriCHLORO ETHANE	HALL	12.6	5	1957	391.4	12.6	20	8487	424.4	12.5	40	21496	537.4	451.0	17.0%
TriCHLORO ETHENE	PID	8.8	5	128	25.5	8.8	20	452	22.6	8.8	40	954	23.9	24.0	6.2%
VINYL CHLORIDE	HALL	2.5	5	1050	210.0	2.5	25	5410	216.4	2.4	50	8166	163.3	196.6	14.7%
FREON 11	HALL	3.3	5	9134	1826.9	3.3	15	21331	1422.1	3.3	25	34979	1399.2	1549.4	15.5%
FREON 12	HALL	2.2	5	5044	1008.8	2.2	13	10098	776.7	2.2	21	18381	875.3	886.9	13.1%
FREON 113	HALL	3.7	10	1841	184.1	3.7	40	8524	213.1	3.7	80	19264	240.8	212.7	13.3%
CHLOROETHANE	HALL	2.9	5	208	41.5	2.8	10	572	57.2	2.7	50	3210	64.2	54.3	21.4%
BENZENE	PID	7.6	5	215	42.9	7.6	20	753	37.7	7.5	40	1658	41.5	40.7	6.7%
CHLOROBENZENE	PID	15.1	5	263	52.5	15.1	20	884	44.2	15.0	40	1813	45.3	47.3	9.5%
ETHYLBENZENE	PID	15.4	5	223	44.7	15.4	20	726	36.3	15.4	40	1604	40.1	40.4	10.4%
TOLUENE	PID	11.6	5	228	45.5	11.6	20	785	39.3	11.5	40	1654	41.3	42.0	7.6%
m&p-XYLENES	PID	15.8	10	525	52.5	15.8	40	1695	42.4	15.7	80	3595	44.9	46.6	11.3%
o-XYLENES	PID	16.9	5	231	46.2	16.9	20	787	39.3	16.8	40	1714	42.9	42.8	8.0%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. PAUL MOSHER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

SOIL GAS INITIAL LCS STANDARD REPORT

DATE:03/08/95, FREON 11, FREON 12 11/05/94, VINYL CHLORIDE, AND CHLOROETHANE 08/04/94
SUPPLY SOURCE: CHEMSERVE HVOC/AVOC MIX 7/1/94 LOT# 105-31A & 110-83B
INSTRUMENT: CRUISEMASTER SHIMADZU GC14A-LEFT

COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	564.7	20	7.3	12383	619.1	9.6%
CHLOROFORM	HALL	473.6	20	6.7	9956	497.8	5.1%
DiCHLORO ETHANE (11)	HALL	405.5	20	5.3	8353	417.6	3.0%
DiCHLORO ETHANE (12)	HALL	501.1	20	7.7	10938	546.9	9.1%
DiCHLORO ETHENE (11)	PID	14.8	20	3.7	317	15.9	7.1%
DiCHLORO ETHENE (12 CIS)	PID	19.5	20	6.1	402	20.1	3.2%
DiCHLORO ETHENE (12 TRANS)	PID	33.3	20	4.6	757	37.9	13.7%
DiCHLOROMETHANE	HALL	351.1	20	4.3	8408	420.4	19.7%
TetraCHLORO ETHANE (1112)	HALL	521.0	20	15.4	11903	595.1	14.2%
TetraCHLORO ETHANE (1122)	HALL	436.8	20	18.9	11606	580.3	32.9%
TetraCHLORO ETHENE	PID	20.8	20	12.9	396	19.8	4.7%
TriCHLORO ETHANE (111)	HALL	473.7	20	7.0	9266	463.3	2.2%
TriCHLORO ETHANE (112)	HALL	451.0	20	12.6	10494	524.7	16.3%
TriCHLORO ETHENE	PID	24.0	20	8.8	477	23.8	0.7%
FREON 12	HALL	886.9	8	2.2	7540	942.5	6.3%
FREON 11	HALL	1549.4	10	3.3	13806	1380.6	10.9%
FREON 113	HALL	212.7	40	3.7	8600	215.0	1.1%
VINYL CHLORIDE	HALL	196.6	25	2.4	4820	192.8	1.9%
CHLOROETHANE	HALL	54.3	10	2.8	573	57.3	5.6%
BENZENE	PID	40.7	20	7.6	832	41.6	2.2%
CHLOROBENZENE	PID	47.3	20	15.1	920	46.0	2.8%
ETHYLBENZENE	PID	40.4	20	15.4	766	38.3	5.2%
TOLUENE	PID	42.0	20	11.6	785	39.2	6.6%
m&p-XYLENES	PID	46.6	40	15.8	1783	44.6	4.3%
o-XYLENES	PID	42.8	20	16.9	790	39.5	7.7%

ANALYSES PERFORMED ON-SITE IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. PAUL MOSHER
DATA REVIEWED BY: DR. BLAYNE HARTMAN

teg

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 3-7-95 PAGE 2 OF 2

TEG PROJECT #: 950306 CM

LOCATION: JPL, Pasadena, CA

COLLECTOR: BG Randolph DATE OF COLLECTION: 3/7/95

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS						FIELD NOTES (Purge volume)	Total Number Of Containers	Laboratory Number
VPSV-129	96	1337	Vapor	Syringe	X	X																		Duplicate of VPSV-128 400cc		
VPSV-130	20	1402	"	"	X	X																		80cc		
VPSV-131	20	1443	"	"	X	X																		60cc		
VPSV-132	30	1455	"	"	X	X																		120cc		
VPSV-133	~~44~~ 84	1514	"	"	X	X																		200cc		
VPSV-134	10	1538	"	"	X	X																		50cc		
VPSV-135	30	1552	"	"	X	X																		130cc		
VPSV-136	30	1614	"	"	X	X																		Duplicate of VPSV-135 130cc		
VPSV-137	37	1626	"	"	X	X																		170cc		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

VC Mosher 3-7-95 1657

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, teg

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

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PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 3/8/95 PAGE 1 OF 2

TEG PROJECT #: 950306 CM

LOCATION: JPL, Pasadena, CA

COLLECTOR: B.G. Randolph DATE OF COLLECTION: 3/8/95

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS							Purge volume FIELD NOTES	Total Number Of Containers	Laboratory Number
VPSV-138	20	0743	Vapor	Syringe	X	X																				80 cc		
VPSV-139	40	0809	"	"	X	X																				160 cc		
VPSV-140	60	0835	"	"	X	X																				240 cc		
VPSV-141	60	0900	"	"	X	X																				Duplicate of VPSV-140 240 cc		
VPSV-142	96	0929	"	"	X	X																				400 cc		
VPSV-143	5	1027	"	"	X	X																				20 cc		
VPSV-144	20	1152	"	"	X	X																				80 cc		
VPSV-145	60	1215	"	"	X	X																				240 cc		
VPSV-146	20	1257	"	"	X	X																				80 cc		
VPSV-147	40	1332	"	"	X	X																				160 cc		
VPSV-148	40	1410	"	"	X	X																				Duplicate of VPSV-147 160 cc		
VPSV-149	60	1436	"	"	X	X																				240 cc		
VPSV-150	90	1502	"	"	X	X																				360 cc		
VPSV-151	20	1526	"	"	X	X																				80 cc		
VPSV-152	40	1533	"	"	X	X																				160 cc		
VPSV-153	55	1551	"	"	X	X																				220 cc		
VPSV-154	55	1602	"	"	X	X																				Duplicate of VPSV-153 220 cc		
VPSV-155	70	1621	"	"	X	X																				280 cc		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

teg

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 3/8/95 PAGE 2 OF 2

TEG PROJECT #: 950306 CA

LOCATION: JPL, Pasadena, CA

COLLECTOR: B.G. Randolph DATE OF COLLECTION: 3/8/95

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS							Volume Purged FIELD NOTES	Total Number Of Containers	Laboratory Number
VPSV-156	85	1632	Vapor	Syringe	X	X																				360 cc		
VPSV-157	20	1648	"	"	X	X																				80 cc		
VPSV-158	40	1657	"	"	X	X																				160 cc		
VPSV-159	60	1715	"	"	X	X																				240 cc		
VPSV-160	60	1726	"	"	X	X														Duplicate of VPSV-159						240 cc		
VPSV-161	80	1740	"	"	X	X																				320 cc		
VPSV-162	95	1752	"	"	X	X																				400 cc		

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 3/9/95 PAGE 1 OF

TEG PROJECT #: 950306 CM

LOCATION: JPL, Pasadena, CA

COLLECTOR: B.G. Randolph DATE OF COLLECTION: 3/9/95

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	Volume withdrawn / FIELD NOTES	Total Number Of Containers	Laboratory Number
Blank	—	0653	Vapor	Syringe	X	X														70cc		
VPSV-163	30	0804	"	"	X	X														120cc		
VPSV-164	50	0816	"	"	X	X														200cc		
VPSV-165	70	0840	"	"	X	X														280cc		
VPSV-166	70	0854	"	"	X	X													Duplicate of VPSV-165	280cc		
VPSV-167	90	0907	"	"	X	X														360cc		
VPSV-168	20	0934	"	"	X	X														80cc		
VPSV-169	10	1004	"	"	X	X														40cc		
VPSV-170	30	1011	"	"	X	X														120cc		
VPSV-171	40	1028	"	"	X	X														160cc		
VPSV-172	40	1033	"	"	X	X													Duplicate of VPSV-171	160cc		
VPSV-173	20	1105	"	"	X	X														80cc		
VPSV-174	35	1108	"	"	X	X														140cc		
VPSV-175	50	1135	"	"	X	X														200cc		
VPSV-176	70	1144	"	"	X	X														280cc		
VPSV-177	87	1201	"	"	X	X														360cc		
VPSV-178	87	1209	"	"	X	X													Duplicate of VPSV-177	360cc		
VPSV-179	20	1250	"	"	X	X														40cc		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 3/9/95 PAGE 2 OF

TEG PROJECT #: 950306CM

LOCATION: JPL Pasadena, CA

COLLECTOR: B.E. Randolph DATE OF COLLECTION: 3/9/95

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	Volume Withdrawn FIELD NOTES	Total Number Of Containers	Laboratory Number
VPSV-180	40	1252	Vapor	Syringe	X	X														160 cc		
VPSV-181	60	1329	"	"	X	X														240 cc		
VPSV-182	96	1334	"	"	X	X														400 cc		
VPSV-183	12	1438	"	"	X	X														50 cc		
VPSV-184	12	1440	"	"	X	X													Duplicate of VPSV-183	50 cc		
VPSV-185	24	1507	"	"	X	X														100 cc		
VPSV-186	36	1511	"	"	X	X														160 cc		
VPSV-187	5	1533	"	"	X	X														20 cc		
VPSV-188	10	1547	"	"	X	X														40 cc		
VPSV-189	13	1601	"	"	X	X														60 cc		
VPSV-190	13	1611	"	"	X	X													Duplicate of VPSV-189	60 cc		
VPSV-191	20	1647	"	"	X	X														80 cc		
VPSV-192	40	1649	"	"	X	X														160 cc		
~~VPSV-19~~																						

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Foster Wheeler

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER:

DATE: 3/10/95 PAGE 1 OF 1

TEG PROJECT #: 950300CM

LOCATION: JPL, Pasadena, CA

COLLECTOR: B.G. Randolph DATE OF COLLECTION: 3/10/95

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	Volume Withdrawn FIELD NOTES	Total Number Of Containers	Laboratory Note Number
VPSV-193	20	0748	Vapor	Syringe	X	X														80 cc		
VPSV-194	40	0753	"	"	X	X														160 cc		
VPSV-195	60	0824	"	"	X	X														240 cc		
VPSV-196	60	0836	"	"	X	X														Duplicate of VPSV-195 240 cc		
VPSV-197	80	0848	"	"	X	X														320 cc		
VPSV-198	95	0905	"	"	X	X														400 cc		
VPSV-199	40	1005	"	"	X	X														160 cc		
VPSV-200	55	1017	"	"	X	X														220 cc		
VPSV-201	70	1035	"	"	X	X														280 cc		
VPSV-202	70	1044	"	"	X	X														Duplicated 201 280 cc		
VPSV-203	85	1101	"	"	X	X														340 cc		

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

[signature] 3/10/95 1200

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

APPENDIX C3

SOIL VAPOR DATA REPORT, EVENT 4, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

(SEE CD ROM)

INITIAL CALIBRATION (3-POINT)

WINNEBAGO 1
SUPPLY SOURCE: ACCUSTANDARD LOT #A6110182
INSTRUMENT: SHIMADZU GC14A RIGHT

			LOW STANDARD				MID STANDARD				HIGH STANDARD				SUMMARY			
COMPOUND	DETECTOR	CAL DATE	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RT	AVE RF	SD	%RSD
CARBON TETRACHLORIDE	HALL	6/12/97	9.4	1	62.9	62.9	9.4	20.0	1565	78.3	9.4	100	9034	90.3	9.4	77.2	13.8	17.8%
CHLOROETHANE/BROMOMETHANE	HALL	6/23/97	4.4	5.00	571.0	114.2	4.3	20.0	2242	112.1	4.2	100	8996	90.0	4.3	105.4	13.4	12.7%
CHLOROFORM	HALL	6/12/97	8.3	1	102.0	102.0	8.3	20.0	2054	102.7	8.3	100	12483	124.8	8.3	109.8	13.0	11.8%
1,1-DICHLORO ETHANE	HALL	6/12/97	7.1	1	60.9	60.9	7.1	20.0	1424	71.2	7.1	100	7109	71.1	7.1	67.7	5.9	8.7%
1,2-DICHLORO ETHANE	HALL	6/12/97	9.6	1	118.0	118.0	9.6	20.0	2031	101.6	9.6	100	11372	113.7	9.6	111.1	8.5	7.7%
1,1-DICHLORO ETHENE	PID	6/12/97	5.4	1	3.5	3.5	5.4	20.0	60	3.0	5.4	100	239	2.4	5.4	3.0	0.6	19.0%
CIS-1,2-DICHLORO ETHENE	PID	6/12/97	8.0	1	5.5	5.5	8.0	20.0	99	5.0	8.0	100	367	3.7	8.0	4.7	0.9	19.6%
TRANS-1,2-DICHLORO ETHENE	PID	6/12/97	6.5	1	8.2	8.2	6.5	20.0	164	8.2	6.5	100	586	5.9	6.5	7.4	1.4	18.4%
DICHLOROMETHANE	HALL	6/12/97	6.1	1	89.1	89.1	6.1	20.0	1696	84.8	6.1	100	8604	86.0	6.1	86.6	2.2	2.6%
TETRACHLORO ETHENE	PID	6/12/97	14.5	1	5.4	5.4	14.5	20.0	108	5.4	14.5	100	499	5.0	14.5	5.3	0.2	4.3%
1,1,1,2-TETRACHLORO ETHANE/CHLOROBENZENE	HALL	6/12/97	16.4	2	134.0	67.0	16.4	40.0	2455	61.4	16.4	200	12451	62.3	16.4	63.5	3.0	4.8%
1,1,2,2-TETRACHLORO ETHANE	HALL	6/12/97	19.1	1	60.5	60.5	19.1	20.0	1540	77.0	19.1	100	7215	72.2	19.1	69.9	8.5	12.1%
1,1,1-TRICHLORO ETHANE	HALL	6/12/97	9.0	1	56.8	56.8	9.0	20.0	1601	80.1	9.0	100	8083	80.8	9.0	72.6	13.7	18.8%
1,1,2-TRICHLORO ETHANE	HALL	6/12/97	13.8	1	65.9	65.9	13.8	20.0	1540	77.0	13.8	100	8359	83.6	13.8	75.5	8.9	11.8%
TRICHLORO ETHENE	PID	6/12/97	10.7	1	7.7	7.7	10.7	20.0	124	6.2	10.7	100	546	5.5	10.7	6.5	1.1	17.6%
VINYL CHLORIDE	HALL	6/12/97	3.7	5.00	573.0	114.6	3.7	20.0	2232	111.6	3.6	100	8133	81.3	3.7	102.5	18.4	18.0%
TRICHLOROFLUOROMETHANE (FR11)	HALL	6/23/97	4.8	5.00	666.0	133.2	4.7	20.0	3010	150.5	4.5	100	10176	101.8	4.6	128.5	24.7	19.2%
DICHLORODIFLUOROMETHANE (FR12)	HALL	6/23/97	3.3	5.00	113.0	22.6	3.2	20.0	459	23.0	3.2	100	2403	24.0	3.2	23.2	0.7	3.2%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	6/23/97	5.2	1	25.9	25.9	5.2	20.0	621	31.1	5.2	100	3375	33.8	5.2	30.2	4.0	13.2%
1,1,1-TRICHLORO ETHANE	FID	2/13/97	2.2	80	13.3	0.167	2.2	500.0	70	0.139	2.2	3,000	367	0.122	2.2	0.143	0.02	15.6%
TRICHLORO ETHENE	FID	2/13/97	3.1	80	12.9	0.161	3.1	500.0	67	0.133	3.1	3,000	348	0.116	3.1	0.137	0.02	16.5%
TETRACHLORO ETHENE	FID	2/13/97	5.8	80	11.1	0.139	5.8	500.0	57	0.114	5.8	3,000	299	0.100	5.8	0.117	0.02	16.8%
BENZENE	PID	6/12/97	9.6	1	11.3	11.3	9.6	20.0	217	10.9	9.6	100	938	9.4	9.6	10.5	1.0	9.6%
ETHYLBENZENE	PID	6/12/97	16.4	1	10.8	10.8	16.4	20.0	240	12.0	16.4	100	1178	11.8	16.4	11.5	0.6	5.6%
TOLUENE	PID	6/12/97	13.1	1	11.4	11.4	13.1	20.0	214	10.7	13.1	100	1039	10.4	13.1	10.8	0.5	4.8%
m&p-XYLENES	PID	6/12/97	16.6	2	28.4	14.2	16.6	40.0	528	13.2	16.6	200	2480	12.4	16.6	13.3	0.9	6.8%
o-XYLENE	PID	6/12/97	17.7	1	11.8	11.8	17.7	20.0	225	11.3	17.7	100	999	10.0	17.7	11.0	0.9	8.4%
CHLOROMETHANE	HALL	6/23/97	3.6	5	208	41.60	3.6	20	853	42.65	3.5	100	4446	44.46	3.5	42.903	1.4	3.4%
1,4 DIFLUORO BENZENE	PID	6/12/97	10.0	1	4.6	4.6	10.0	20.0	77	3.9	10.0	100	400	4.0	10.0	4.1	0.4	8.8%
CHLOROBENZENE	PID	6/12/97	16.3	1	9.6	9.6	16.3	20.0	224	11.2	16.3	100	906	9.1	16.3	10.0	1.1	11.1%
4 BROMOFLUORO BENZENE	PID	6/12/97	19.3	1	10.3	10.3	19.3	20.0	194	9.7	19.3	100	916	9.2	19.3	9.7	0.6	5.9%

ANALYSES PERFORMED IN TEG'S MOBILE LABORATORY
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY:

SOIL GAS INITIAL LCS STANDARD REPORT (3-POINT CALIBRATION VERIFICATION)

LAB: TEG WINN 1
SUPPLY SOURCE: ACCUSTANDARD LOT #076-289
INSTRUMENT: SHIMADZU GC14A RIGHT

COMPOUND	DETECTOR	CAL DATE	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	6/13/97	77.2	20	9.3	1,712	85.6	10.9%
CHLOROFORM	HALL	6/13/97	109.8	20	8.1	2,320	116.0	5.6%
1,1-DICHLORO ETHANE	HALL	6/13/97	67.7	20	7.0	1,429	71.5	5.5%
1,2-DICHLORO ETHANE	HALL	6/13/97	111.1	20	9.4	2,222	111.1	0.0%
1,1-DICHLORO ETHENE	PID	6/13/97	3.0	20	5.4	62	3.1	3.5%
CIS-1,2-DICHLORO ETHENE	PID	6/13/97	4.7	20	7.9	104	5.2	10.6%
TRANS-1,2-DICHLORO ETHENE	PID	6/13/97	7.4	20	6.4	163	8.2	10.1%
DICHLOROMETHANE	HALL	6/13/97	86.6	20	6.0	1,824	91.2	5.3%
TETRACHLORO ETHENE	PID	6/13/97	5.3	20	14.4	109	5.5	2.8%
1,1,1,2-TETRACHLORO ETHANE/CHLOROBENZENE	HALL	6/13/97	63.5	40	16.3	2,788	69.7	9.8%
1,1,2,2-TETRACHLORO ETHANE	HALL	6/13/97	69.9	20	18.9	1,431	71.6	2.4%
1,1,1-TRICHLORO ETHANE	HALL	6/13/97	72.6	20	8.8	1,655	82.8	14.0%
1,1,2-TRICHLORO ETHANE	HALL	6/13/97	75.5	20	13.6	1,542	77.1	2.1%
TRICHLORO ETHENE	PID	6/13/97	6.5	20	10.5	128	6.4	1.5%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	6/13/97	30.2	20	5.2	687	34.4	13.7%
BENZENE	PID	6/13/97	10.5	20	9.5	240	12.0	14.3%
ETHYLBENZENE	PID	6/13/97	11.5	20	16.2	241	12.1	4.8%
TOLUENE	PID	6/13/97	10.8	20	12.9	242	12.1	12.0%
m&p-XYLENES	PID	6/13/97	13.3	40	16.4	534	13.4	0.4%
o-XYLENE	PID	6/13/97	11.0	20	17.5	248	12.4	12.7%
1,4 DIFLUORO BENZENE	PID	6/13/97	4.1	20	9.8	81	4.0	1.3%
CHLOROBENZENE	PID	6/13/97	10.0	20	16.2	227	11.4	13.5%
4 BROMOFLUORO BENZENE	PID	6/13/97	9.7	20	19.2	207	10.4	6.7%

ANALYSES PERFORMED IN TEG'S MOBILE LABORATORY
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY:

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd #800 Costa Mesa, CA
Phone: 714-444-5507 FAX: 714-444-5560
Client Project #: 15200225 Project Manager: P.G. Randolph

Date: 6-23-97 Page 1 Of 2
TEG Project #: 970623W1 Outside Lab #:
Location: JPL - Pasadena
Collector: P.G. Randolph Date of Collection: 6-23-97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0708	vapor	syringe	X	X																				
VPSV-204	20	0806			X	X																			Purge Volume - 80cc	
VPSV-205	35	0826			X	X																			- 140cc	
VPSV-206	60	0853			X	X																			- 240cc	
VPSV-207	85	0916			X	X																			- 340cc	
VPSV-208	100	0948			X	X																			- 400cc	
VPSV-209 (Dup.)	100	1036			X	X																			- 400cc	
VPSV-210	120	1102			X	X																			- 480cc	
VPSV-211	140	1157			X	X																			- 560cc	
VPSV-212	160	1223			X	X																			- 640cc	
VPSV-213	180	1247			X	X																			- 720cc	
VPSV-214	205 ~~200~~ (Dup)	1317			X	X																			820cc - ~~800cc~~ 360	
VPSV-215 (Dup)	205	1418			X	X																			- 820cc	
~~VPSV-216 (Dup)~~	~~20~~	~~1444~~			X	X																			~~(Dup) 80cc~~	
VPSV-216	20	1425			X	X																			- 80cc	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
P.G. Randolph	6/23/97 - 1630	[signature]	1630 6-23-97
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste. 800, Costa Mesa, CA
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: 6-23-97 Page 2 Of 2
TEG Project #: 970623W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6-23-97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
VPSV-217	40	1557	Vapor	Syringe	X	X																			Purge Vol. in cc - 160	
VPSV-218	60	1620	"	"	X	X																			240	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time
B.G. Randolph 6/23/97 - 1630 [signature] 6-23-97 1630
Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste. 600, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: 6/24/97 Page 1 Of 2
TEG Project #: 970624W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/24/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	~~0710~~ 0640		Vapor	syringe	X	X																				
VPSV - 219	85	0721			X	X																			Purge volumes in cc - 340	
VPSV - 220	100	0822			X	X																			400	
VPSV - 221 (Dup)	100	0914			X	X																			400	
VPSV - 222	120	0938			X	X																			480	
VPSV - 223	145	1028			X	X																			580	
VPSV - 224	165	1053			X	X																			660	
VPSV - 225	180	1117			X	X																			720	
VPSV - 226	190	1144			X	X																			760	
VPSV - 227 (Dup)	190	1207			X	X																			760	
VPSV - 228	35	1231			X	X																			140	
VPSV - 229	55	1257			X	X																			220	
VPSV - 230	20	1337			X	X																			80	
VPSV - 231	80	1424			X	X																			320	
VPSV - 232	100	1449			X	X																			400	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	6/24/97-1530	[signature]	1530 6-24-97
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste. 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: 6/24/97 Page 2 Of 2
TEG Project #: 970624W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/24/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
VPSV - 233 (Dup)	100	1512	Vapor	Syringe	X	X																			Purge volumes in cc-	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time
B.G. Randolph 6/24/97 - 1530 1530 6-24-97
Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd., Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: 6/25/97 Page 1 Of 2
TEG Project #: 970625W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/25/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0640	Vapor	Syringe	X	X																				
VPSV-234	115	0712			X	X																			Pumping vols. in cc - 460	
VPSV-235	140	0743			X	X																			560	
VPSV-236	160	0820			X	X																			640	
VPSV-237	180	0843			X	X																			720	
VPSV-238	195	0907			X	X																			780	
VPSV-239 (Dup)	195	0933			X	X																			780	
VPSV-240	20	0957			X	X																			80	
VPSV-241	45	1021			X	X																			180	
VPSV-242	65	1045			X	X																			260	
VPSV-243	80	1110			X	X																			320	
VPSV-244	105	1133			X	X																			420	
VPSV-245 (Dup)	105	1154			X	X																			420	
VPSV-246	120	1249			X	X																			480	
VPSV-247	140	1305	Tip plugged - no sample																						560	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	6-25-97/1430	[illegible]	6.25.97 1430
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd., Ste. 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: 6/25/97 Page 2 Of 2
TEG Project #: 970625W1 Outside Lab #:
Location: JPL – Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/25/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
VPSV-~~248~~ 247	160	1314	Vapor	Syringe	X	X																			Purge Vols. in cc – 640	
VPSV-248	20	1357			X	X																			80	
VPSV-249	35	1418			X	X																			140	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	6-25-97/1430	[signature]	1430 6-25-97
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste. 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: 6/26/97 Page 1 Of 1
TEG Project #: 970626W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/26/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0700	Vapor	Syringe	X	X																			Purge Volumes in cc's	
VPSV-250	50	0728	↓	↓	X	X																			200	
VPSV-251 (Dup)	50	0750			X	X																			200	
VPSV-252	60	0813			X	X																			240	
VPSV-253	78	0834			X	X																			320	
VPSV-254	20 ~~25~~ (26B)	0857			X	X																			(26B) ~~75~~ 80	
VPSV-255	35 ~~35~~ (26A)	0920			X	X																			(26A) ~~120~~ 140	
VPSV-256	45	0943			X	X																			180	
VPSV-257 (Dup)	45	1006			X	X																			180	
VPSV-258	55	1031			X	X																			220	
VPSV-259	65	1055			X	X																			260	
VPSV-260	17	1120			X	X																			75	
VPSV-261	30	1142			X	X																			120	
VPSV-262	40	1229			X	X																			160	
VPSV-263 (Dup)	40	1253	↓	↓	X	X																			160	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	1430 6-26-97	[signature]	1430 6-26-97
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Date: 6/26/97 Page 2 Of 2
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
TEG Project #: 970626W1 Outside Lab #:
Phone: 714/444-5527 FAX: 714/444-5560
Location: JPL - Pasadena, CA
Client Project #: 1572.0225 Project Manager: B.G. Randolph
Collector: B.G. Randolph Date of Collection: 6/26/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Purge Volumes in ccs Field Notes	Total # of containers
VPSV - 264	50	1316	Vapor	Syringe	X	X																			200	
VPSV - 265	65	1340	↓	↓	X	X																			260	
VPSV - 266 (Dup)	65	1401	↓	↓	X	X																			260	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	6-26-97/1430	[illegible]	1430 6-26-97
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

APPENDIX C4

SOIL VAPOR DATA REPORT, EVENT 5, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

(SEE CD ROM)

INITIAL CALIBRATION (3-POINT)

WINNEBAGO 1
SUPPLY SOURCE: ACCUSTANDARD LOT #A6110182
INSTRUMENT: SHIMADZU GC14A RIGHT

			LOW STANDARD				MID STANDARD				HIGH STANDARD				SUMMARY			
COMPOUND	DETECTOR	CAL DATE	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RT	AVE RF	SD	%RSD
CARBON TETRACHLORIDE	HALL	7/9/97	9.4	2	167.0	83.5	9.4	20.0	1935	96.8	9.4	100	10957	109.6	9.4	96.6	13.0	13.5%
CHLOROETHANE/BROMOMETHANE	HALL	6/23/97	4.4	5.00	571.0	114.2	4.3	20.0	2242	112.1	4.2	100	8996	90.0	4.3	105.4	13.4	12.7%
CHLOROFORM	HALL	7/9/97	8.3	2	294.0	147.0	8.3	20.0	2850	142.5	8.3	100	16484	164.8	8.3	151.4	11.8	7.8%
1,1-DICHLORO ETHANE	HALL	7/9/97	7.1	2	146.0	73.0	7.1	20.0	1667	83.4	7.1	100	9267	92.7	7.1	83.0	9.8	11.9%
1,2-DICHLORO ETHANE	HALL	7/9/97	9.6	2	316.0	158.0	9.6	20.0	2903	145.2	9.6	100	14886	148.9	9.6	150.7	6.6	4.4%
1,1-DICHLORO ETHENE	PID	7/9/97	5.4	2	4.6	2.3	5.4	20.0	47	2.4	5.4	100	192	1.9	5.4	2.2	0.2	10.7%
CIS-1,2-DICHLORO ETHENE	PID	7/9/97	8.0	2	8.3	4.2	8.0	20.0	75	3.8	8.0	100	399	4.0	8.0	4.0	0.2	5.0%
TRANS-1,2-DICHLORO ETHENE	PID	7/9/97	6.5	2	14.8	7.4	6.5	20.0	128	6.4	6.5	100	546	5.5	6.5	6.4	1.0	15.2%
DICHLOROMETHANE	HALL	7/9/97	6.1	2	179.0	89.5	6.1	20.0	1869	93.5	6.1	100	9487	94.9	6.1	92.6	2.8	3.0%
TETRACHLORO ETHENE	PID	7/9/97	14.5	2	7.8	3.9	14.5	20.0	84	4.2	14.5	100	409	4.1	14.5	4.1	0.2	3.7%
1,1,1,2-TETRACHLORO ETHANE/CHLOROBENZENE	HALL	7/9/97	16.4	4	417.0	104.3	16.4	40.0	3425	85.6	16.4	200	18445	92.2	16.4	94.0	9.4	10.0%
1,1,2,2-TETRACHLORO ETHANE	HALL	7/9/97	19.1	2	177.0	88.5	19.1	20.0	2211	110.6	19.1	100	12782	127.8	19.1	109.0	19.7	18.1%
1,1,1-TRICHLORO ETHANE	HALL	7/9/97	9.0	2	210.0	105.0	9.0	20.0	2109	105.5	9.0	100	10281	102.8	9.0	104.4	1.4	1.4%
1,1,2-TRICHLORO ETHANE	HALL	7/9/97	13.8	2	214.0	107.0	13.8	20.0	2137	106.9	13.8	100	12276	122.8	13.8	112.2	9.1	8.1%
TRICHLORO ETHENE	PID	7/9/97	10.7	2	11.9	6.0	10.7	20.0	93	4.7	10.7	100	421	4.2	10.7	4.9	0.9	18.5%
VINYL CHLORIDE	HALL	6/23/97	3.7	5.00	573.0	114.6	3.7	20.0	2232	111.6	3.6	100	8133	81.3	3.7	102.5	18.4	18.0%
TRICHLOROFLUOROMETHANE (FR11)	HALL	6/23/97	4.8	5.00	666.0	133.2	4.7	20.0	3010	150.5	4.5	100	10176	101.8	4.6	128.5	24.7	19.2%
DICHLORODIFLUOROMETHANE (FR12)	HALL	6/23/97	3.3	5.00	113.0	22.6	3.2	20.0	459	23.0	3.2	100	2403	24.0	3.2	23.2	0.7	3.2%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	7/9/97	5.2	2	51.5	25.8	5.2	20.0	498	24.9	5.2	100	3207	32.1	5.2	27.6	3.9	14.2%
1,1,1-TRICHLORO ETHANE	FID	2/13/97	2.2	80	13.3	0.167	2.2	500.0	70	0.139	2.2	3,000	367	0.122	2.2	0.143	0.02	15.6%
TRICHLORO ETHENE	FID	2/13/97	3.1	80	12.9	0.161	3.1	500.0	67	0.133	3.1	3,000	348	0.116	3.1	0.137	0.02	16.5%
TETRACHLORO ETHENE	FID	2/13/97	5.8	80	11.1	0.139	5.8	500.0	57	0.114	5.8	3,000	299	0.100	5.8	0.117	0.02	16.8%
BENZENE	PID	7/9/97	9.6	2	16.7	8.4	9.6	20.0	169	8.5	9.6	100	751	7.5	9.6	8.1	0.5	6.4%
ETHYLBENZENE	PID	7/9/97	16.4	2	21.6	10.8	16.4	20.0	187	9.4	16.4	100	906	9.1	16.4	9.7	0.9	9.6%
TOLUENE	PID	7/9/97	13.1	2	20.8	10.4	13.1	20.0	179	9.0	13.1	100	815	8.2	13.1	9.2	1.1	12.4%
m&p-XYLENES	PID	7/9/97	16.6	4	49.3	12.3	16.6	40.0	412	10.3	16.6	200	1929	9.6	16.6	10.8	1.4	12.9%
o-XYLENE	PID	7/9/97	17.7	2	22.2	11.1	17.7	20.0	233	11.7	17.7	100	879	8.8	17.7	10.5	1.5	14.5%
CHLOROMETHANE	HALL	6/23/97	3.6	5	208	41.60	3.6	20	853	42.65	3.5	100	4446	44.46	3.5	42.903	1.4	3.4%
1,4 DIFLUORO BENZENE	PID	7/9/97	10.0	2	6.6	3.3	10.0	20.0	61	3.1	10.0	100	309	3.1	10.0	3.1	0.1	4.3%
CHLOROBENZENE	PID	7/9/97	16.3	4	36.7	9.2	16.3	20.0	172	8.6	16.3	100	768	7.7	16.3	8.5	0.8	8.9%
4 BROMOFLUORO BENZENE	PID	7/9/97	19.3	2	17.0	8.5	19.3	20.0	157	7.9	19.3	100	731	7.3	19.3	7.9	0.6	7.5%

ANALYSES PERFORMED IN TEG'S MOBILE LABORATORY
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY:

SOIL GAS INITIAL LCS STANDARD REPORT (3-POINT CALIBRATION VERIFICATION)

LAB: TEG WINN 1
SUPPLY SOURCE: ACCUSTANDARD LOT #076-289
INSTRUMENT: SHIMADZU GC14A RIGHT

COMPOUND	DETECTOR	CAL DATE	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	7/10/97	96.6	20	9.3	1,962	98.1	1.6%
CHLOROFORM	HALL	7/10/97	151.4	20	8.1	3,421	171.1	13.0%
1,1-DICHLORO ETHANE	HALL	7/10/97	83.0	20	7.0	1,881	94.1	13.3%
1,2-DICHLORO ETHANE	HALL	7/10/97	150.7	20	9.4	3,093	154.7	2.6%
1,1-DICHLORO ETHENE	PID	7/10/97	2.2	20	5.4	41	2.1	6.8%
CIS-1,2-DICHLORO ETHENE	PID	7/10/97	4.0	20	7.9	69	3.5	13.8%
TRANS-1,2-DICHLORO ETHENE	PID	7/10/97	6.4	20	6.4	115	5.8	10.2%
DICHLOROMETHANE	HALL	7/10/97	92.6	20	6.0	2,119	106.0	14.4%
TETRACHLORO ETHENE	PID	7/10/97	4.1	20	14.4	81	4.1	1.2%
1,1,1,2-TETRACHLORO ETHANE/CHLOROBENZENE	HALL	7/10/97	94.0	40	16.3	3,772	94.3	0.3%
1,1,2,2-TETRACHLORO ETHANE	HALL	7/10/97	109.0	20	18.9	2,358	117.9	8.2%
1,1,1-TRICHLORO ETHANE	HALL	7/10/97	104.4	20	8.8	2,262	113.1	8.3%
1,1,2-TRICHLORO ETHANE	HALL	7/10/97	112.2	20	13.6	2,443	122.2	8.9%
TRICHLORO ETHENE	PID	7/10/97	4.9	20	10.5	89	4.5	9.2%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	7/10/97	27.6	20	5.2	613	30.7	11.1%
BENZENE	PID	7/10/97	8.1	20	9.5	157	7.9	3.1%
ETHYLBENZENE	PID	7/10/97	9.7	20	16.2	196	9.8	1.0%
TOLUENE	PID	7/10/97	9.2	20	12.9	172	8.6	6.5%
m&p-XYLENES	PID	7/10/97	10.8	40	16.4	416	10.4	3.7%
o-XYLENE	PID	7/10/97	10.5	20	17.5	182	9.1	13.3%
1,4 DIFLUORO BENZENE	PID	7/10/97	3.1	20	9.8	55	2.8	11.3%
CHLOROBENZENE	PID	7/10/97	8.5	20	16.2	148	7.4	12.9%
4 BROMOFLUORO BENZENE	PID	7/10/97	7.9	20	19.2	149	7.5	5.7%

ANALYSES PERFORMED IN TEG'S MOBILE LABORATORY
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY:

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd., Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: July 21, 1997 Page 1 Of 2
TEG Project #: 970721W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 7/21/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH*	Metals						Field Notes	Total # of containers
Blank	—	0725	Vapor	syringe	X	X																			Purge Volumes in ccs	
VPSV-267	20	0801			X	X																			80	
VPSV-268	35	0822			X	X																			140	
VPSV-269	60	0845			X	X											(No surrogate)								240	
VPSV-269	60	0906			X	X											~~Cr6~~ (B62)								Resample 240	
VPSV-270	85	0928			X	X																			340	
VPSV-271	100	0951			X	X																			400	
VPSV-272 (Dup)	100	1016			X	X																			400	
VPSV-273	120	1042			X	X																			480	
VPSV-274	140	1107			X	X																			560	
VPSV-275	160	1129			X	X																			640	
VPSV-276	180	1155			X	X																			720	
VPSV-277	205	1219			X	X																			820	
VPSV-278 (Dup)	205	1240			X	X																			820	
VPSV-279	20	1330			X	X																			80	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	1450 7-21-97	[signature]	1450 7-21-97
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: July 21, 1997 Page 2 Of 2
TEG Project #: 970721W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 7/21/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
VPSV-280	40	1355	Vapor	Syringe	X	X																			Purge Vols. in ccs-160	
VPSV-281	60	1417	↓	↓	X	X																			240	
VPSV-282	85	1441	↓	↓	X	X																			340	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	7-21-97/1450	[signature]	1450 7-21-97
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #: _____

Client: Foster Wheeler
Address: 611 Anton Blvd., Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5521 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: July 22, 1997 Page 1 Of 2
TEG Project #: 970722W1 Outside Lab #: _____
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 7/22/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0710	Vapor	Syringe	X	X																			Purge Volumes in CCs	
VPSV-283	100	0741			X	X																			400	
VPSV-284 (Dup)	100	0803			X	X																			400	
VPSV-285	120	0829			X	X																			480	
VPSV-286	145	0856			X	X																			580	
VPSV-287	165	0920			X	X																			660	
VPSV-288	180	0943			X	X																			720	
VPSV-289	190	1007			X	X																			760	
VPSV-290 (Dup)	190	1030			X	X																			760	
VPSV-291	20	1055			X	X																			80	
VPSV-292	35	1117			X	X																			140	
VPSV-293	55	1139			X	X																			220	
VPSV-294	80	1207			X	X																			320	
VPSV-295	100	1306			X	X																			400	
VPSV-296 (Dup)	100	1328			X	X																			400	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time
B.G. Randolph 7/22/97 1450 [signature] 7-22-97/1450
Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers: ____
Chain of Custody seals Y/N/NA ____
Seals intact? Y/N/NA ____
Received good condition/cold ____

Notes:

Turn around time: _____

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: July 22, 1997 Page 2 Of 2
TEG Project #: 970722W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 7/22/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes (Purge Volumes in CCs)	Total # of containers
VPSV-297	115	1347	Vapor	Syringe	X	X																			460	
VPSV-298	140	1416	↓	↓	X	X																			560	
VPSV-299	160	1438	↓	↓	X	X																			640	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	7/22/97 / 1450	[illegible]	7-22-97/1450
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: July 23, 1997 Page 1 Of 2
TEG Project #: 970723W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 7/23/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0725	Vapor	Syringe	X	X																			Purged Volumes in cc's	
VPSV-300	180	0746			X	X																			720	
VPSV-301	195	0809			X	X																			780	
VPSV-302 (Dup)	195	0833			X	X																			780	
VPSV-303	20	0858			X	X																			80	
VPSV-304	45	0920			X	X																			180	
VPSV-305	65	0944			X	X																			260	
VPSV-306	80	1005			X	X																			320	
VPSV-307	105	1027			X	X																			420	
VPSV-308 (Dup)	105	1054 (BGR)			X	X																			420	
VPSV-309	120	1120			X	X																			480	
—	140	1125	Tip plugged - no sample																						—	
VPSV-310	160	1148			X	X																			640	
VPSV-311	20	1207			X	X																			80	
VPSV-312	35	1302			X	X																			140	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	7/23/97 1445	[signature]	7-23-97/1445
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd., Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: July 23, 1997 Page 2 Of 2
TEG Project #: 970723W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 7/23/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Purged Volumes in ccs Field Notes	Total # of containers
VPSV-313	50	1330	Vapor	Syringe	X	X																			200	
VPSV-314 (Dup.)	50	1354	↓	↓	X	X																			200	
VPSV-315	60	1417			X	X																			140	
VPSV-316	78	1439			X	X																			320	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	7/23/97 1445	[illegible]	7/23/97 1445
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0225 Project Manager: B.G. Randolph

Date: July 24, 1997 Page 1 Of 1
TEG Project #: 970724WI Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 7/24/97

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0715	Vapor	syringe	X	X																			Purged volumes in ccs	
VPSV-317	17	0745			X	X																			75	
VPSV-318	30	0809			X	X																			120	
VPSV-319	40	0833			X	X																			160	
VPSV-320 (Dup)	40	0855			X	X																			160	
VPSV-321	50	0917			X	X																			200	
VPSV-322	65	0940			X	X																			260	
VPSV-323	20	1005			X	X																			80	
VPSV-324	35	1029			X	X																			140	
VPSV-325	45	1049			X	X																			180	
VPSV-326 (Dup)	45	1113			X	X																			180	
VPSV-327	55	1137			X	X																			220	
VPSV-328	65	1159			X	X																			260	
VPSV-329 (Dup)	65	1222			X	X																			260	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	7/24/97 / 1235	[illegible]	7-24-97 / 1235
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

APPENDIX C5

SOIL VAPOR DATA REPORT, EVENT 6, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

(SEE CD ROM)

INITIAL CALIBRATION (3-POINT)

WINNEBAGO 1
SUPPLY SOURCE: ACCUSTANDARD LOT #A6110182
INSTRUMENT: SHIMADZU GC14A RIGHT

			LOW STANDARD				MID STANDARD				HIGH STANDARD				SUMMARY			
COMPOUND	DETECTOR	CAL DATE	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RT	AVE RF	SD	%RSD
CARBON TETRACHLORIDE	HALL	10/8/97	9.4	2	151.0	75.5	9.4	20.0	2097	104.9	9.4	100	9178	91.8	9.4	90.7	14.7	16.2%
CHLOROETHANE/BROMOMETHANE	HALL	6/23/97	4.4	5.00	571.0	114.2	4.3	20.0	2242	112.1	4.2	100	8996	90.0	4.3	105.4	13.4	12.7%
CHLOROFORM	HALL	10/8/97	8.3	2	254.0	127.0	8.3	20.0	2829	141.5	8.3	100	13004	130.0	8.3	132.8	7.6	5.7%
1,1-DICHLORO ETHANE	HALL	10/8/97	7.1	2	167.0	83.5	7.1	20.0	1681	84.1	7.1	100	5786	57.9	7.1	75.1	15.0	19.9%
1,2-DICHLORO ETHANE	HALL	10/8/97	9.6	2	220.0	110.0	9.6	20.0	2709	135.5	9.6	100	11695	117.0	9.6	120.8	13.2	10.9%
1,1-DICHLORO ETHENE	PID	10/8/97	5.4	2	16.3	8.2	5.4	20.0	165	8.3	5.4	100	709	7.1	5.4	7.8	0.6	8.2%
CIS-1,2-DICHLORO ETHENE	PID	10/8/97	8.0	2	21.6	10.8	8.0	20.0	251	12.6	8.0	100	1062	10.6	8.0	11.3	1.1	9.4%
TRANS-1,2-DICHLORO ETHENE	PID	10/8/97	6.5	2	39.6	19.8	6.5	20.0	440	22.0	6.5	100	1695	17.0	6.5	19.6	2.5	12.9%
DICHLOROMETHANE	HALL	10/8/97	6.1	2	129.0	64.5	6.1	20.0	1744	87.2	6.1	100	7239	72.4	6.1	74.7	11.5	15.4%
TETRACHLORO ETHENE	PID	10/8/97	14.5	2	34.6	17.3	14.5	20.0	280	14.0	14.5	100	1220	12.2	14.5	14.5	2.6	17.8%
1,1,1,2-TETRACHLORO ETHANE/CHLOROBENZENE	HALL	10/8/97	16.4	4	312.0	78.0	16.4	40.0	3337	83.4	16.4	200	13819	69.1	16.4	76.8	7.2	9.4%
1,1,2,2-TETRACHLORO ETHANE	HALL	10/8/97	19.1	2	136.0	68.0	19.1	20.0	1596	79.8	19.1	100	8016	80.2	19.1	76.0	6.9	9.1%
1,1,1-TRICHLORO ETHANE	HALL	10/8/97	9.0	2	161.0	80.5	9.0	20.0	2200	110.0	9.0	100	8989	89.9	9.0	93.5	15.1	16.1%
1,1,2-TRICHLORO ETHANE	HALL	10/8/97	13.8	2	188.0	94.0	13.8	20.0	1918	95.9	13.8	100	8958	89.6	13.8	93.2	3.2	3.5%
TRICHLORO ETHENE	PID	10/8/97	10.7	2	34.0	17.0	10.7	20.0	314	15.7	10.7	100	1311	13.1	10.7	15.3	2.0	12.9%
VINYL CHLORIDE	HALL	6/23/97	3.7	5.00	573.0	114.6	3.7	20.0	2232	111.6	3.6	100	8133	81.3	3.7	102.5	18.4	18.0%
TRICHLOROFLUOROMETHANE (FR11)	HALL	6/23/97	4.8	5.00	666.0	133.2	4.7	20.0	3010	150.5	4.5	100	10176	101.8	4.7	128.5	24.7	19.2%
DICHLORODIFLUOROMETHANE (FR12)	HALL	6/23/97	3.3	5.00	113.0	22.6	3.2	20.0	459	23.0	3.2	100	2403	24.0	3.2	23.2	0.7	3.2%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	10/8/97	5.2	2	73.5	36.8	5.2	20.0	719	36.0	5.2	100	3621	36.2	5.2	36.3	0.4	1.1%
BENZENE	PID	10/8/97	9.6	2	50.1	25.1	9.6	20.0	566	28.3	9.6	100	2286	22.9	9.6	25.4	2.7	10.8%
ETHYLBENZENE	PID	10/8/97	16.4	2	61.2	30.6	16.4	20.0	658	32.9	16.4	100	2339	23.4	16.4	29.0	5.0	17.1%
TOLUENE	PID	10/8/97	13.1	2	45.3	22.7	13.1	20.0	586	29.3	13.1	100	2446	24.5	13.1	25.5	3.4	13.5%
m&p-XYLENES	PID	10/8/97	16.6	4	140.0	35.0	16.6	40.0	1411	35.3	16.6	200	5797	29.0	16.6	33.1	3.6	10.7%
o-XYLENE	PID	10/8/97	17.7	2	70.4	35.2	17.7	20.0	684	34.2	17.7	100	2582	25.8	17.7	31.7	5.2	16.2%
CHLOROMETHANE	HALL	6/23/97	3.6	5	208	41.60	3.6	20	853	42.65	3.5	100	4446	44.46	3.6	42.903	1.4	3.4%
1,4 DIFLUORO BENZENE	PID	10/8/97	10.0	2	15.5	7.8	10.0	20.0	202	10.1	10.0	100	912	9.1	10.0	9.0	1.2	13.1%
CHLOROBENZENE	PID	10/8/97	16.3	2	47.4	23.7	16.3	20.0	537	26.9	16.3	100	2705	27.1	16.3	25.9	1.9	7.3%
4 BROMOFLUORO BENZENE	PID	10/8/97	19.3	2	40.3	20.2	19.3	20.0	511	25.6	19.3	100	2242	22.4	19.3	22.7	2.7	11.9%

ANALYSES PERFORMED IN TEG'S MOBILE LABORATORY
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY:

SOIL GAS INITIAL LCS STANDARD REPORT (3-POINT CALIBRATION VERIFICATION)

LAB: TEG WINN 1
SUPPLY SOURCE: ACCUSTANDARD LOT #076-289
INSTRUMENT: SHIMADZU GC14A RIGHT

COMPOUND	DETECTOR	CAL DATE	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	10/8/97	90.7	20	9.3	1,797	89.9	0.9%
CHLOROFORM	HALL	10/8/97	132.8	20	8.1	2,553	127.7	3.9%
1,1-DICHLORO ETHANE	HALL	10/8/97	75.1	20	7.0	1,618	80.9	7.7%
1,2-DICHLORO ETHANE	HALL	10/8/97	120.8	20	9.4	2,433	121.7	0.7%
1,1-DICHLORO ETHENE	PID	10/8/97	7.8	20	5.4	175	8.8	12.2%
CIS-1,2-DICHLORO ETHENE	PID	10/8/97	11.3	20	7.9	250	12.5	10.6%
TRANS-1,2-DICHLORO ETHENE	PID	10/8/97	19.6	20	6.4	444	22.2	13.3%
DICHLOROMETHANE	HALL	10/8/97	74.7	20	6.0	1,518	75.9	1.6%
TETRACHLORO ETHENE	PID	10/8/97	14.5	20	14.4	296	14.8	2.1%
1,1,1,2-TETRACHLORO ETHANE/CHLOROBENZENE	HALL	10/8/97	76.8	40	16.3	2,864	71.6	6.8%
1,1,2,2-TETRACHLORO ETHANE	HALL	10/8/97	76.0	20	18.9	1,435	71.8	5.6%
1,1,1-TRICHLORO ETHANE	HALL	10/8/97	93.5	20	8.8	1,893	94.7	1.2%
1,1,2-TRICHLORO ETHANE	HALL	10/8/97	93.2	20	13.6	1,760	88.0	5.6%
TRICHLORO ETHENE	PID	10/8/97	15.3	20	10.5	339	17.0	10.8%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	10/8/97	36.3	20	5.2	770	38.5	6.1%
BENZENE	PID	10/8/97	25.4	20	9.5	580	29.0	14.2%
ETHYLBENZENE	PID	10/8/97	29.0	20	16.2	647	32.4	11.6%
TOLUENE	PID	10/8/97	25.5	20	12.9	580	29.0	13.7%
m&p-XYLENES	PID	10/8/97	33.1	40	16.4	1,353	33.8	2.2%
o-XYLENE	PID	10/8/97	31.7	20	17.5	636	31.8	0.3%
1,4 DIFLUORO BENZENE	PID	10/8/97	9.0	20	9.8	202	10.1	12.2%
CHLOROBENZENE	PID	10/8/97	25.9	20	16.2	558	27.9	7.7%
4 BROMOFLUORO BENZENE	PID	10/8/97	22.7	20	19.2	510	25.5	12.3%

ANALYSES PERFORMED IN TEG'S MOBILE LABORATORY
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY:

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler Date: 5/18/98 Page 1 Of 2

Address: 611 Anton Blvd., Ste 800, Costa Mesa, CA 92626 TEG Project #: 980518W1 Outside Lab #:

Phone: 714/444-5527 FAX: 714/444-5560 Location: JPL – Pasadena, CA

Client Project #: 1572.0248 Project Manager: B.G. Randolph Collector: B.G. Randolph Date of Collection: 5/18/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0815	Vapor	Syringe	X	X																			P.	
VPSV-330	25	0843			X	X																			Purge Volume in cc -100	
VPSV-331	40	0904			X	X																			-160	
VPSV-332	55	0928			X	X																			-220	
VPSV-333	70	0951			X	X																			-280	
VPSV-334	90	1013			X	X																			-360	
VPSV-335 (Dup.)	90	1036			X	X																			-360	
VPSV-336	115	1059			X	X																			-460	
VPSV-337	135	1122			X	X																			-540	
VPSV-338	155	1144			X	X																			-620	
VPSV-339	180	1208			X	X																			-720	
—	195		No Sample – Water plugged; can blow but cannot purge																						—	
VPSV-340	20	1232			X	X																			-80	
VPSV-341 (Dup.)	20	1253			X	X																			-80	
VPSV-342	35	1340			X	X																			-140	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/18/98 1500	[signature]	1500 5-18-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.024B Project Manager: B.G. Randolph

Date: 5/18/98 Page 2 Of 2
TEG Project #: 980518W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 5/18/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
VPSV-343	55	1405	Vapor	Syringe	X	X																			Purge Vol. in cc - 220	
VPSV-344	75	1426	↓	↓	X	X																			- 300	
VPSV-345	92	1453	↓	↓	X	X																			- 370	

Tony Anthony
6-2-98

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/18/98 1500	[signature]	1500 5-18-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Date: 5/19/98 Page 1 Of 2
Address: 611 Anton Blvd., Ste 800, Costa Mesa, CA 92626
TEG Project #: 980579W1 Outside Lab #:
Phone: 714/444-5527 FAX: 714/444-5560
Location: JPL - Pasadena, CA
Client Project #: 1572.0248 Project Manager: B.G. Randolph
Collector: B.G. Randolph Date of Collection: 5/19/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0755	Vapor	Syringe	X	X																				
VPSV-346	20	0819	Vapor	Syringe	X	X																			Vol. Purged in ac - 80	
VPSV-347 (Dup)	20	0840			X	X																			- 80	
VPSV-348	40	0900			X	X																			- 160	
VPSV-349	60	0925			X	X																			- 240	
VPSV-350	85	0949			X	X																			- 340	
VPSV-351	105	1010			X	X																			- 420	
VPSV-352	120	1033			X	X																			- 480	
VPSV-353 (Dup)	120	1056			X	X																			- 480	
VPSV-354	140	1122			X	X																			- 560	
VPSV-355	160	1145			X	X																			- 640	
VPSV-356	180	1205			X	X																			- 720	
—	200	—	No Sample - Water plugged; can blow but cannot purge																						—	
VPSV-357	25	1241			X	X																			- 100	
VPSV-358	40	1327			X	X																			- 160	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time
B.G. Randolph 5/19/98 1444 1444 5-19-98
Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0248 Project Manager: B.G. Randolph

Date: 5/19/98 Page 2 Of 2
TEG Project #: 980519W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 5/19/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
VPSV-359 (Dup)	40	1354	Vapor	Syringe	X	X																			Vol. Purged in cc - 160	
VPSV-360	60	1416	↓	↓	X	X																			- 240	
VPSV-361	80	1440	↓	↓	X	X																			- 320	
VPSV-357	25																								- 100	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/19/98 1444	[signature]	1444 5-19-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0248 Project Manager: B.G. Randolph

Date: 5/20/98 Page 1 Of 2
TEG Project #: 980520W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 5/20/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank		0748	Vapor	Syringe	X	X																			Volume Purged in cc:	
VPSV-362	100	0810			X	X																			400	
VPSV-363	120	0833			X	X																			480	
VPSV-364	140	0855			X	X																			560	
VPSV-365 (Dup)	140	0918			X	X																			560	
VPSV-366	155	0941			X	X																			620	
VPSV-367	170	1003			X	X																			680	
—	185	—	No Sample - Water plugged; can blow but cannot purge.																						—	
VPSV-368	20	1027			X	X																			80	
VPSV-369	35	1048			X	X																			140	
VPSV-370	50	1110			X	X																			200	
VPSV-371 (Dup.)	50	1133			X	X																			200	
VPSV-372	65	1156			X	X																			260	
VPSV-373	80	1219			X	X																			320	
VPSV-374	95	1322			X	X																			380	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/20/98 / 1440	[signature]	1440 5-20-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0248 Project Manager: B.G. Randolph

Date: 5/20/98 Page 2 Of 2
TEG Project #: 980520W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 5/20/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
VPSV-375	108	1348	Vapor	Syringe	X	X																			Vol. Purged in cc: 435	
VPSV-376	118	1409			X	X																			475	
VPSV-377 (Dup)	118	1431			X	X																			475	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time
B.G. Randolph 5/20/98 1440 1440 5-20-98
Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0248 Project Manager: B.G. Randolph

Date: 5/21/98 Page 1 Of 2
TEG Project #: 980521 W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 5/21/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0711	Vapor	Syringe	X	X																			Volume purged in cc:	
VPSV-378	20	0733			X	X																			80	
VPSV-379	35	0754			X	X																			140	
VPSV-380	50	0813			X	X																			200	
VPSV-381	70	0839			X	X																			280	
VPSV-382	85	0903			X	X																			340	
VPSV-383 (Dup.)	85	0924			X	X																			340	
VPSV-384	100	0945			X	X																			400	
VPSV-385	110	1010			X	X																			440	
VPSV-386	120	1034			X	X																			480	
—	130	—	No Sample - Water plugged; can blow, but cannot purge.																						—	
VPSV-387	25	1101			X	X																			100	
VPSV-388	45	1123			X	X																			180	
VPSV-389 (Dup.)	45	1145			X	X																			180	
VPSV-390	65	1232			X	X																			260	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/21/98 1355	[signature]	1355 5-21-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #: _____

Client: Foster Wheeler
Address: 611 Anton Blvd., Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0248 Project Manager: B.G. Randolph

Date: 5/21/98 Page 2 Of 2
TEG Project #: 980521W1 Outside Lab #: _____
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 5/21/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
VPSV-391	80	1255	Vapor	Syringe	X	X																			Vol. Purged in cc: 320	
VPSV-~~392~~ —	95	—	No Sample - Water plugged; can blow, but cannot purge																						380	
VPSV-~~393~~ 392	110	1326			X	X																			440	
VPSV-~~394~~ 393	125	1348			X	X																			500	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/21/98 1355	[signature]	5-21-98 1355
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: _____
Chain of Custody seals Y/N/NA _____
Seals intact? Y/N/NA _____
Received good condition/cold _____

Notes:

Turn around time: _____

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0248 Project Manager: B.G. Randolph

Date: 5/22/98 Page 1 Of 2
TEG Project #: 980522W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 5/22/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals					Field Notes	Total # of containers
Blank	—	0723	Vapor	Syringe	X	X																		Volume Purged in cc:	
VPSV-394	140	0746			X	X																		560	
VPSV-395 (Dup.)	140	0807			X	X																		560	
VPSV-396	155	0830			X	X																		620	
VPSV-—	170	—	No Sample - Water plugged; can blow, but cannot purge.																					—	
VPSV-397	20	0851			X	X																		80	
VPSV-398	35	0913			X	X																		140	
VPSV-399	50	0935			X	X																		200	
VPSV-400	60	0959			X	X																		240	
VPSV-401 (Dup.)	60	1020			X	X																		240	
VPSV-402	80	1043			X	X																		320	
VPSV-403	95	1105			X	X																		380	
VPSV-404	110	1127			X	X																		440	
VPSV-405	125	1150			X	X																		500	
VPSV-406	140	1236			X	X																		560	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/22/98 1330	[signature]	1330 5-22-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0248 Project Manager: B.G. Randolph

Date: 5/22/98 Page 2 Of 2
TEG Project #: 980522W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 5/22/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
VPSV-407 (Dup.)	140	1300	Vapor	Syringe	X	X																			Vol pumped in cc: 560	
VPSV-408	155	1323	↓	↓	X	X																			620	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time
B.G. Randolph 5/22/98 1330 [signature] 5/22/98 1330
Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA, 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.024B Project Manager: B.G. Randolph

Date: 5/26/98 Page 1 Of 2
TEG Project #: 980526W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 5/26/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0730	Vapor	Syringe	X	X																			Volume purged in cc:	
VPSV-409	20	0752			X	X																			80	
VPSV-~~408~~ 410	35	0813	No Sample - Water plugged; can bleed, but cannot purge.																						~~140~~ 860 —	
VPSV-410	60	0817			X	X																			240	
VPSV-411	85	0837			X	X																			340	
VPSV-412	100	0900			X	X																			400	
VPSV-413	120	0921			X	X																			480	
VPSV-414 (Dup.)	120	0944			X	X																			480	
VPSV-415	140	1006			X	X																			560	
VPSV-416	160	1030			X	X																			640	
VPSV-417	180	1051			X	X																			720	
—	205	—	No Sample - water plugged; can bleed, but cannot purge.																						—	
VPSV-418	20	1111			X	X																			80	
VPSV-419	40	1135			X	X																			160	
VPSV-420 (Dup.)	40	1157			X	X																			160	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/26/98 1315	[signature]	5-26-98 1315
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0248 Project Manager: B.G. Randolph

Date: 5/26/98 Page 2 Of 2
TEG Project #: 980526W1 Outside Lab #:
Location: JPL - Pasadena, CA.
Collector: B.G. Randolph Date of Collection: 5/26/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
VPSV —	60	1204	No Sample - Tip plugged; cannot purge or blow																						Vol. purged in cc: —	
VPSV - 421	85	1243	Vapor	Syringe	X	X																			340	
VPSV - 422	100	1308	↓	↓	X	X																			400	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/26/98 1315	[illegible]	1315 5-26-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Address: 611 Anton Blvd., Ste 800, Costa Mesa, CA 92626
Phone: 714/444-5527 FAX: 714/444-5560
Client Project #: 1572.0248 Project Manager: B.G. Randolph

Date: 5/27/98 Page 1 Of 1
TEG Project #: 980527W1 Outside Lab #:
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 5/27/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0645	Vapor	Syringe	X	X																			Volume Purged in cc:	
VPSV-423	120	0716			X	X																			480	
VPSV-424	145	0738			X	X																			580	
VPSV-425	165	0801			X	X																			660	
VPSV-426 (Dup.)	165	0824			X	X																			660	
VPSV-~~427~~ 426 —	180	~~0847~~ 0847	No Sample - Water plugged; can blow, but cannot purge.																						~~780~~ —	
—	190	—	No Sample - Water plugged; can blow, but cannot purge																						—	
VPSV-427	20	0859			X	X																			80	
VPSV-428	35	0919			X	X																			140	
VPSV-429	55	0942			X	X																			220	
VPSV-430	80	1006			X	X																			320	
VPSV-431	100	1029			X	X																			400	
VPSV-432 (Dup.)	100	1053			X	X																			400	
VPSV-433	115	1116			X	X																			460	
VPSV-434	140	1140			X	X																			560	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/27/98 1145	[signature]	1145 5-27-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

teg Transglobal Environmental Geochemistry **Chain of Custody Record** PO #:

Client: Foster Wheeler
Date: 5/28/98 Page 1 Of 1
Address: 611 Anton Blvd., Ste. 800, Costa Mesa, CA
TEG Project #: 980527W1 Outside Lab #:
Phone: 714/444-5527 FAX: 714/444-5560
Location: JPL - Pasadena, CA
Client Project #: 1572.0248 Project Manager: B.G. Randolph
Collector: B.G. Randolph Date of Collection: 5/28/98

Sample #	Depth	Time	Sample Type	Container Type	VOA 8010	VOA 8020	VOA 8240	Semi Vol 8270	TRPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	PNA 610/8100	PEST/PCB's 8080	HEX Chrome	Organic Lead	Total Lead	pH	Metals						Field Notes	Total # of containers
Blank	—	0712	Vapor	Syringe	X	X																			Vol. purged in cc:	
VPSV-435	160	0733			X	X																			640	
VPSV-436	180	0756			X	X																			720	
VPSV-437	20	0819			X	X																			80	
VPSV-438 (Dup.)	20	0842			X	X																			80	
VPSV-439	45	0907			X	X																			180	
—	65	—	No Sample - Plugged; cannot purge or blow																						—	
VPSV-440	80	0927			X	X																			320	
VPSV-441	105	0951			X	X																			420	
VPSV-442	120	1013			X	X																			480	
VPSV-443 (Dup.)	120	1039			X	X																			480	
—	140	—	No Sample - Still plugged from last year																						—	
—	160	1047	No Sample - Plugged; cannot blow or purge.																						—	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	5/28/98 1045	[signature]	1045 5-28-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal Instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

APPENDIX C6

SOIL VAPOR DATA REPORT, EVENT 7, PREPARED BY TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

(SEE CD ROM)

INITIAL CALIBRATION (3-POINT)

WINNEBAGO 1
SUPPLY SOURCE: ACCUSTANDARD LOT #A6110182
INSTRUMENT: SHIMADZU GC14A RIGHT

			LOW STANDARD				MID STANDARD				HIGH STANDARD				SUMMARY			
COMPOUND	DETECTOR	CAL DATE	RT	MASS	AREA	RF	RT	MASS	AREA	RF	RT	MASS	AREA	RF	AVE RT	AVE RF	SD	%RSD
CARBON TETRACHLORIDE	HALL	10/8/97	9.4	2	151.0	75.5	9.4	20.0	2097	104.9	9.4	100	9178	91.8	9.4	90.7	14.7	16.2%
CHLOROETHANE/BROMOMETHANE	HALL	6/23/97	4.4	5.00	571.0	114.2	4.3	20.0	2242	112.1	4.2	100	8996	90.0	4.3	105.4	13.4	12.7%
CHLOROFORM	HALL	10/8/97	8.3	2	254.0	127.0	8.3	20.0	2829	141.5	8.3	100	13004	130.0	8.3	132.8	7.6	5.7%
1,1-DICHLORO ETHANE	HALL	10/8/97	7.1	2	167.0	83.5	7.1	20.0	1681	84.1	7.1	100	5786	57.9	7.1	75.1	15.0	19.9%
1,2-DICHLORO ETHANE	HALL	10/8/97	9.6	2	220.0	110.0	9.6	20.0	2709	135.5	9.6	100	11695	117.0	9.6	120.8	13.2	10.9%
1,1-DICHLORO ETHENE	PID	10/8/97	5.4	2	16.3	8.2	5.4	20.0	165	8.3	5.4	100	709	7.1	5.4	7.8	0.6	8.2%
CIS-1,2-DICHLORO ETHENE	PID	10/8/97	8.0	2	21.6	10.8	8.0	20.0	251	12.6	8.0	100	1062	10.6	8.0	11.3	1.1	9.4%
TRANS-1,2-DICHLORO ETHENE	PID	10/8/97	6.5	2	39.6	19.8	6.5	20.0	440	22.0	6.5	100	1695	17.0	6.5	19.6	2.5	12.9%
DICHLOROMETHANE	HALL	10/8/97	6.1	2	129.0	64.5	6.1	20.0	1744	87.2	6.1	100	7239	72.4	6.1	74.7	11.5	15.4%
TETRACHLORO ETHENE	PID	10/8/97	14.5	2	34.6	17.3	14.5	20.0	280	14.0	14.5	100	1220	12.2	14.5	14.5	2.6	17.8%
1,1,1,2-TETRACHLORO ETHANE/CHLOROBENZENE	HALL	10/8/97	16.4	4	312.0	78.0	16.4	40.0	3337	83.4	16.4	200	13819	69.1	16.4	76.8	7.2	9.4%
1,1,2,2-TETRACHLORO ETHANE	HALL	10/8/97	19.1	2	136.0	68.0	19.1	20.0	1596	79.8	19.1	100	8016	80.2	19.1	76.0	6.9	9.1%
1,1,1-TRICHLORO ETHANE	HALL	10/8/97	9.0	2	161.0	80.5	9.0	20.0	2200	110.0	9.0	100	8989	89.9	9.0	93.5	15.1	16.1%
1,1,2-TRICHLORO ETHANE	HALL	10/8/97	13.8	2	188.0	94.0	13.8	20.0	1918	95.9	13.8	100	8958	89.6	13.8	93.2	3.2	3.5%
TRICHLORO ETHENE	PID	10/8/97	10.7	2	34.0	17.0	10.7	20.0	314	15.7	10.7	100	1311	13.1	10.7	15.3	2.0	12.9%
VINYL CHLORIDE	HALL	6/23/97	3.7	5.00	573.0	114.6	3.7	20.0	2232	111.6	3.6	100	8133	81.3	3.7	102.5	18.4	18.0%
TRICHLOROFLUOROMETHANE (FR11)	HALL	6/23/97	4.8	5.00	666.0	133.2	4.7	20.0	3010	150.5	4.5	100	10176	101.8	4.7	128.5	24.7	19.2%
DICHLORODIFLUOROMETHANE (FR12)	HALL	6/23/97	3.3	5.00	113.0	22.6	3.2	20.0	459	23.0	3.2	100	2403	24.0	3.2	23.2	0.7	3.2%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	10/8/97	5.2	2	73.5	36.8	5.2	20.0	719	36.0	5.2	100	3621	36.2	5.2	36.3	0.4	1.1%
BENZENE	PID	10/8/97	9.6	2	50.1	25.1	9.6	20.0	566	28.3	9.6	100	2286	22.9	9.6	25.4	2.7	10.8%
ETHYLBENZENE	PID	10/8/97	16.4	2	61.2	30.6	16.4	20.0	658	32.9	16.4	100	2339	23.4	16.4	29.0	5.0	17.1%
TOLUENE	PID	10/8/97	13.1	2	45.3	22.7	13.1	20.0	586	29.3	13.1	100	2446	24.5	13.1	25.5	3.4	13.5%
m&p-XYLENES	PID	10/8/97	16.6	4	140.0	35.0	16.6	40.0	1411	35.3	16.6	200	5797	29.0	16.6	33.1	3.6	10.7%
o-XYLENE	PID	10/8/97	17.7	2	70.4	35.2	17.7	20.0	684	34.2	17.7	100	2582	25.8	17.7	31.7	5.2	16.2%
CHLOROMETHANE	HALL	6/23/97	3.6	5	208	41.60	3.6	20	853	42.65	3.5	100	4446	44.46	3.6	42.903	1.4	3.4%
1,4 DIFLUORO BENZENE	PID	10/8/97	10.0	2	15.5	7.8	10.0	20.0	202	10.1	10.0	100	912	9.1	10.0	9.0	1.2	13.1%
CHLOROBENZENE	PID	10/8/97	16.3	2	47.4	23.7	16.3	20.0	537	26.9	16.3	100	2705	27.1	16.3	25.9	1.9	7.3%
4 BROMOFLUORO BENZENE	PID	10/8/97	19.3	2	40.3	20.2	19.3	20.0	511	25.6	19.3	100	2242	22.4	19.3	22.7	2.7	11.9%

ANALYSES PERFORMED IN TEG'S MOBILE LABORATORY
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY:

SOIL GAS INITIAL LCS STANDARD REPORT (3-POINT CALIBRATION VERIFICATION)

LAB: TEG WINN 1
SUPPLY SOURCE: ACCUSTANDARD LOT #076-289
INSTRUMENT: SHIMADZU GC14A RIGHT

COMPOUND	DETECTOR	CAL DATE	AVE RF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	10/8/97	90.7	20	9.3	1,797	89.9	0.9%
CHLOROFORM	HALL	10/8/97	132.8	20	8.1	2,553	127.7	3.9%
1,1-DICHLORO ETHANE	HALL	10/8/97	75.1	20	7.0	1,618	80.9	7.7%
1,2-DICHLORO ETHANE	HALL	10/8/97	120.8	20	9.4	2,433	121.7	0.7%
1,1-DICHLORO ETHENE	PID	10/8/97	7.8	20	5.4	175	8.8	12.2%
CIS-1,2-DICHLORO ETHENE	PID	10/8/97	11.3	20	7.9	250	12.5	10.6%
TRANS-1,2-DICHLORO ETHENE	PID	10/8/97	19.6	20	6.4	444	22.2	13.3%
DICHLOROMETHANE	HALL	10/8/97	74.7	20	6.0	1,518	75.9	1.6%
TETRACHLORO ETHENE	PID	10/8/97	14.5	20	14.4	296	14.8	2.1%
1,1,1,2-TETRACHLORO ETHANE/CHLOROBENZENE	HALL	10/8/97	76.8	40	16.3	2,864	71.6	6.8%
1,1,2,2-TETRACHLORO ETHANE	HALL	10/8/97	76.0	20	18.9	1,435	71.8	5.6%
1,1,1-TRICHLORO ETHANE	HALL	10/8/97	93.5	20	8.8	1,893	94.7	1.2%
1,1,2-TRICHLORO ETHANE	HALL	10/8/97	93.2	20	13.6	1,760	88.0	5.6%
TRICHLORO ETHENE	PID	10/8/97	15.3	20	10.5	339	17.0	10.8%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	10/8/97	36.3	20	5.2	770	38.5	6.1%
BENZENE	PID	10/8/97	25.4	20	9.5	580	29.0	14.2%
ETHYLBENZENE	PID	10/8/97	29.0	20	16.2	647	32.4	11.6%
TOLUENE	PID	10/8/97	25.5	20	12.9	580	29.0	13.7%
m&p-XYLENES	PID	10/8/97	33.1	40	16.4	1,353	33.8	2.2%
o-XYLENE	PID	10/8/97	31.7	20	17.5	636	31.8	0.3%
1,4 DIFLUORO BENZENE	PID	10/8/97	9.0	20	9.8	202	10.1	12.2%
CHLOROBENZENE	PID	10/8/97	25.9	20	16.2	558	27.9	7.7%
4 BROMOFLUORO BENZENE	PID	10/8/97	22.7	20	19.2	510	25.5	12.3%

ANALYSES PERFORMED IN TEG'S MOBILE LABORATORY
ANALYSES PERFORMED BY: ALLEN GLOVER
DATA REVIEWED BY:

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(619) 793-0401 Fax: (619) 793-0404

Chain of Custody Record

TEG Project # : 980615 W1

Outside Lab: _____

Client: Foster Wheeler

Address: 611 Anton Blvd, Ste 800, Costa Mesa, CA 92626

Phone: 714/444-5527 Fax: 714/444-5560

Date: June 15, 1998 Page 1 Of 2

Client Project #: 1572.0248 Project Manager: B.G. Randolph

Location: JPL - Pasadena, CA

Collector: B.G. Randolph Date of Collection: 6/15/98

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8080	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals						Field Notes	Total # of containers
VPSV-444	25	0730	6/15	Vapor	Syringe	X				X															Vol Purged in cc: 100	
Blank	—	0705				X				X															—	
VPSV-445	40	0752				X				X															160	
VPSV-446	55	0814				X				X															220	
VPSV-447	70	0836				X				X															280	
VPSV-448	90	0858				X				X															360	
VPSV-449 (Dup)	90	0922				X				X															360	
VPSV-450	115	0947				X				X															460	
VPSV-451	135	1010				X				X															540	
VPSV-452	155	1031				X				X															620	
VPSV-453	180	1053				X				X															720	
VPSV-454	20	1117				X				X															80	
VPSV-455 (Dup.)	20	1141				X				X															80	
VPSV-456	35 ~~40~~	1226				X				X															140 ~~160~~	
VPSV-457	55 ~~60~~	1249				X				X															220 ~~240~~	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	6/15/98 1345	[signature]	1345 6-15-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: ____

Chain of Custody seals Y/N/NA ____

Seals intact? Y/N/NA ____

Received good condition/cold ____

Notes:

Turn around time: _____

Sample disposal instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(619) 793-0401 Fax: (619) 793-0404

Chain of Custody Record

TEG Project #: 980615W1

Outside Lab:

Client: Foster Wheeler
Address: 611 Anton Blvd, Suite 800
Costa Mesa, CA 92626
Phone: 714/444-5527 Fax: 714/444-5560

Date: June 15, 1998 Page 2 Of 2
Client Project #: 1572.0248 Project Manager: B.G. Randolph
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/15/98

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8080	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals						Field Notes	Total # of containers
VPSV-458	75	1314	6/15/98	Vapor	Syringe	X				X															Vol. Purged in cc: 300	
VPSV-459	92	1336	↓	↓	↓	X				X															370	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time
B.G. Randolph 6/15/98 1345 1345 6-15-98
Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal instructions: ___ TEG Disposal @ $2.00 each ___ Return to client ___ Pickup

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(619) 793-0401 Fax: (619) 793-0404

Chain of Custody Record

TEG Project #: 980616WI

Outside Lab:

Client: Foster Wheeler
Address: 611 Anton Blvd., Suite 800
Costa Mesa, CA 92626
Phone: 714/444-5527 Fax: 714/444-5560

Date: June 16, 1998 Page 1 Of 2
Client Project #: 1572.024B Project Manager: B.G. Randolph
Location: JPL – Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/16/98

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8080	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals						Field Notes	Total # of containers
Blank	—	0737	6/16	Vapor	Syringe	X				X															Volume Purged in cc:	
VPSV-460	20	0757				X				X															80	
VPSV-461 (Dup)	20	0819				X				X															80	
VPSV-462	40	0841				X				X															160	
VPSV-463	60	0903				X				X															240	
VPSV-464	85	0926				X				X															340	
VPSV-465	105	0949				X				X															420	
VPSV-466	120	1010				X				X															480	
VPSV-467 (Dup.)	120	1032				X				X															480	
VPSV-468	140	1056				X				X															560	
VPSV-469	160	1117				X				X															640	
VPSV-470	180	1137				X				X															720	
VPSV-471	25	1202				X				X															100	
VPSV-472	40	1247				X				X															160	
VPSV-473 (Dup.)	40	1309				X				X															160	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	6/16/98 1410	[signature]	1410 6/16/98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time: _____

Sample disposal instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(619) 793-0401 Fax: (619) 793-0404

Chain of Custody Record

TEG Project #: 980616W1

Outside Lab:

Client: Foster Wheeler
Address: 611 Anton Blvd, Suite 800
Costa Mesa, CA 92626
Phone: 714/444-5527 Fax: 714/444-5560

Date: June 16, 1998 Page 2 Of 2
Client Project #: 1572.0248 Project Manager: B.G. Randolph
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/16/98

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8080	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals					Field Notes	Total # of containers
VPSV-474	60	1331	6/16	Vapor	Syringe	X				X														Vol. Purged in cc: 240	
VPSV-475	80	1353	↓	↓	↓	X				X														320	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time
B.G. Randolph 6/16/98 1410 1410 6-16-98
Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time: _____

Sample disposal instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

Transglobal Environmental Geochemistry
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Solana Beach, CA 92075
(619) 793-0401 Fax: (619) 793-0404

Chain of Custody Record

TEG Project #: 980617W1

Outside Lab:

Client: Foster Wheeler
Address: 611 Anton Blvd., Suite 800
Costa Mesa, CA 92626
Phone: 714/444-5527 Fax: 714/444-5560

Date: June 17, 1998 Page 1 Of 2
Client Project #: 1572.0248 Project Manager: B.G. Randolph
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/17/98

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8080	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals						Field Notes	Total # of containers
Blank	—	0716	6/17	Vapor	Syringe	X				X															Volume Purged in cc:	
VPSV-476	100	0736	↓	↓	↓	X				X															400	
VPSV-477	120	0758				X				X															480	
VPSV-478	140	0821				X				X															560	
VPSV-479 (Dup)	140	0844				X				X															560	
VPSV-480	155	0905				X				X															620	
VPSV-481	170	0928				X				X															680	
VPSV-482	20	0953				X				X															80	
VPSV-483	35	1014				X				X															140	
VPSV-484	50	1037				X				X															200	
VPSV-485 (Dup)	50	1059				X				X															200	
VPSV-486	65	1121				X				X															260	
VPSV-487	80	1144				X				X															320	
VPSV-488	95	1209				X				X															380	
VPSV-489	108	1254	↓	↓	↓	X				X															435	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time
Bill Randolph 6/17/98 1345 [signature] 1345 6-17-98
Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal instructions: ___ TEG Disposal @ $2.00 each ___ Return to client ___ Pickup

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(619) 793-0401 Fax: (619) 793-0404

Chain of Custody Record

TEG Project #: 980617WI

Outside Lab:

Client: Foster Wheeler
Address: 611 Anton Blvd, Suite 800
Costa Mesa, CA 92626
Phone: 714/444-5527 Fax: 714/444-5560

Date: June 17, 1998 Page 2 Of 2
Client Project #: 1572.0248 Project Manager: B.G. Randolph
Location: JPL – Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/17/98

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8080	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals						Field Notes	Total # of containers
VPSV-490	118	1316	6/17	Vapor	Syringe	X				X															Vol. Pumped in cc: 475	
VPSV-491 (Dup.)	118	1339	↓	↓	↓																				475	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time
B.G. Randolph 6/17/98 1345 [signature] 6-17-98 1345
Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal instructions: ___ TEG Disposal @ $2.00 each ___ Return to client ___ Pickup

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(619) 793-0401 Fax: (619) 793-0404

Chain of Custody Record

TEG Project #: 980618W1

Outside Lab:

Client: Foster Wheeler
Address: 611 Anton Blvd., Suite 800
Costa Mesa, CA 92626
Phone: 714/444-5527 Fax: 714/444-5560

Date: June 18, 1998 Page 1 Of 2
Client Project #: 1572.0248 Project Manager: B.G. Randolph
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/18/98

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8080	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals						Field Notes	Total # of containers
Blank	–	0913	6/18	Vapor	Syringe	X				X															Volume Purged in cc:	
VPSV-492	20	0737	↓	↓	↓	X				X															80	
VPSV-493	35	0757				X				X															140	
VPSV-494	50	0820				X				X															200	
VPSV-495	70	0842				X				X															280	
VPSV-496	85	0904				X				X															340	
VPSV-497 (Dup.)	85	0926				X				X															340	
VPSV-498	100	0949				X				X															400	
VPSV-499	110	1010				X				X															440	
VPSV-500	120	1031				X				X															480	
VPSV-501	25	1056				X				X															100	
VPSV-502	45	1118				X				X															180	
VPSV-503 (Dup.)	45	1140				X				X															180	
VPSV-504	65	1226				X				X															260	
VPSV-505	80	1248	↓	↓	↓	X				X															320	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	6/18/98 1345	[signature]	1345 6-18-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal instructions: ___ TEG Disposal @ $2.00 each ___ Return to client ___ Pickup

Chain of Custody Record

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(619) 793-0401 Fax: (619) 793-0404

TEG Project # : 980618W1

Outside Lab:

Client: Foster Wheeler
Address: 611 Anton Blvd, Suite 800
Costa Mesa, CA 92626
Phone: 714/444-5527 Fax: 714/444-5560

Date: June 18, 1998 Page 2 Of 2
Client Project #: 1572.0248 Project Manager: B.G. Randolph
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/18/98

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8080	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals						Field Notes	Total # of containers
VPSV-506	110	1311	6/18	Vapor	Syringe	X				X															Vol. Purged in cc: 440	
VPSV-507	125	1333	↓	↓	↓	X				X															500	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	6/18/98 1345	[signature]	1345 6-18-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time: _____

Sample disposal instructions: ___ *TEG Disposal @ $2.00 each* ___ *Return to client* ___ *Pickup*

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(619) 793-0401 Fax: (619) 793-0404

Chain of Custody Record

TEG Project #: 980619 W1

Outside Lab:

Client: Foster Wheeler
Address: 611 Anton Blvd, Suite 800
Costa Mesa, CA 92626
Phone: 714/444-5527 Fax: 714/444-5560

Date: June 19, 1998 Page 1 Of 2
Client Project #: 1572.0248 Project Manager: B.G. Randolph
Location: JPL - Pasadena, CA
Collector: B.G. Randolph Date of Collection: 6/19/98

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8080	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals						Field Notes	Total # of containers
Blank	—	0724	6/19	Vapor	Syringe	X				X															Volume Purged in cc:	
VPSV-508	140	0744	↓	↓	↓	X				X															560	
VPSV-509 (Dup.)	140	0806				X				X															560	
VPSV-510	155	0828				X				X															620	
VPSV-511	20	0849				X				X															80	
VPSV-512	35	0911				X				X															140	
VPSV-513	50	0935				X				X															200	
VPSV-514	60	0957				X				X															240	
VPSV-515 (Dup.)	60	1018				X				X															240	
VPSV-516	80	1041				X				X															320	
VPSV-517	95	1104				X				X															380	
VPSV-518	110	1127				X				X															440	
VPSV-519	125	1150				X				X															500	
VPSV-520	140	1235				X				X															560	
VPSV-521 (Dup.)	140	1258				X				X															560	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
B.G. Randolph	6/19/98 1330	[signature]	1330 6-19-98
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time: _____

Sample disposal instructions: ___ TEG Disposal @ $2.00 each ___ Return to client ___ Pickup

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(619) 793-0401 Fax: (619) 793-0404

Chain of Custody Record

TEG Project #: 980619W1

Outside Lab:

Client: Foster Wheeler

Address: 611 Anton Blvd, Suite 800
Costa Mesa, CA 92626

Phone: 714/444-5527 Fax: 714/444-5560

Date: June 19, 1998 Page 2 Of 2

Client Project #: 1572.0248 Project Manager: B. Randolph

Location: JPL - Pasadena, CA

Collector: B.G. Randolph Date of Collection: 6/19/98

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8080	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals						Field Notes	Total # of containers
VPSV-522	155	1321	6/19	Vapor	Syringe	X				X															Vol. Purged in cc:	

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

B. Randolph 6/19/98 1330 — 1330 6-19-98

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers:
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Notes:

Turn around time:

Sample disposal instructions: ___ TEG Disposal @ $2.00 each ___ Return to client ___ Pickup

APPENDIX D

D1 – SOIL DATA REPORT PREPARED BY ANALYTICAL TECHNOLOGIES, INC.

D2 – SOIL DATA REPORT PREPARED BY INTERTEK TESTING SERVICES

D3 – SOIL DATA REPORT PREPARED BY QUANTERRA INCORPORATED

APPENDIX D1

SOIL DATA REPORT
PREPARED BY
ANALYTICAL TECHNOLOGIES, INC.

(SEE CD ROM)

APPENDIX D2

SOIL DATA REPORT
PREPARED BY
INTERTEK TESTING SERVICES

(SEE CD ROM)

APPENDIX D3

SOIL DATA REPORT
PREPARED BY
QUANTERRA INCORPORATED

(SEE CD ROM)

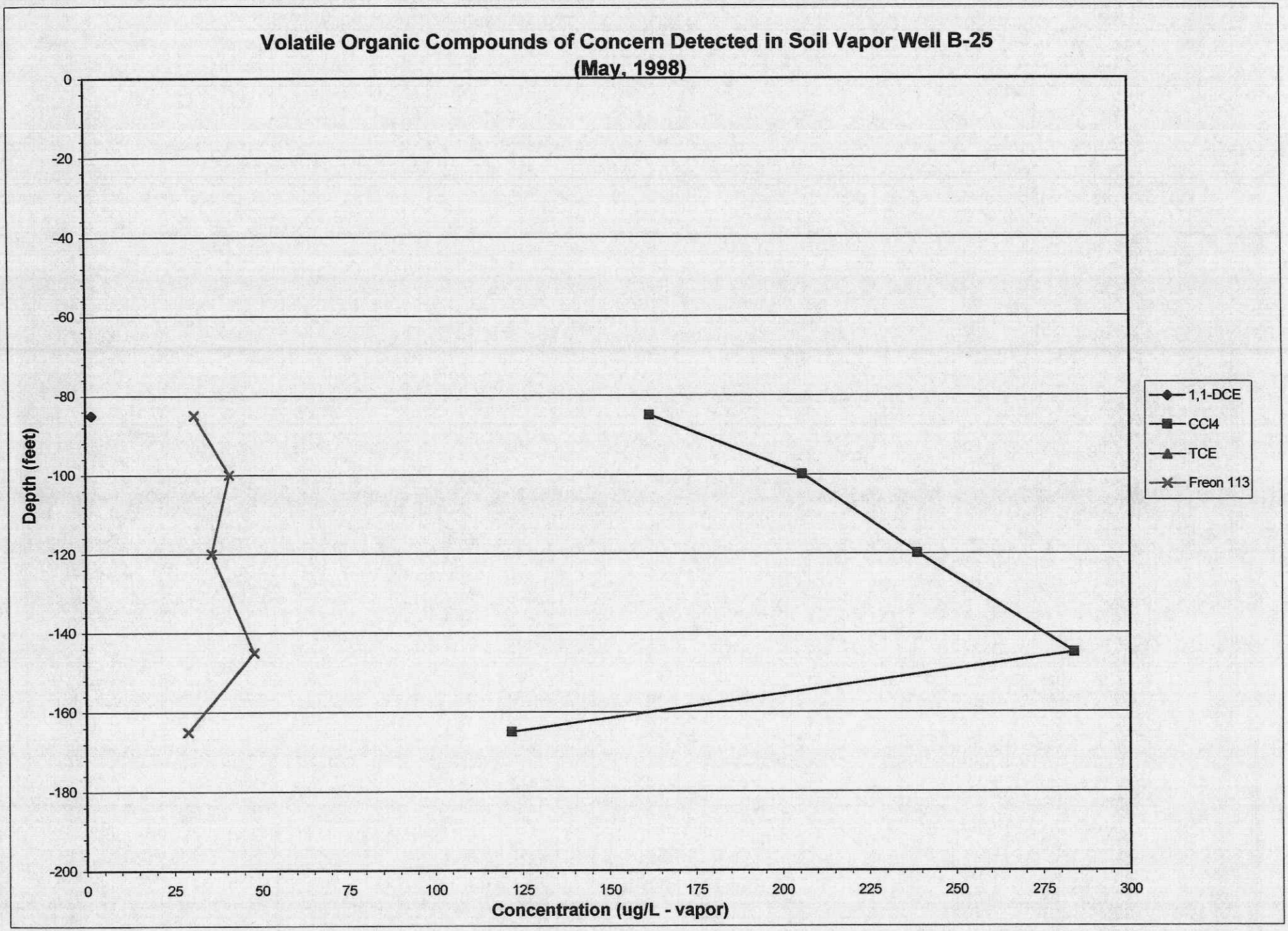
APPENDIX E

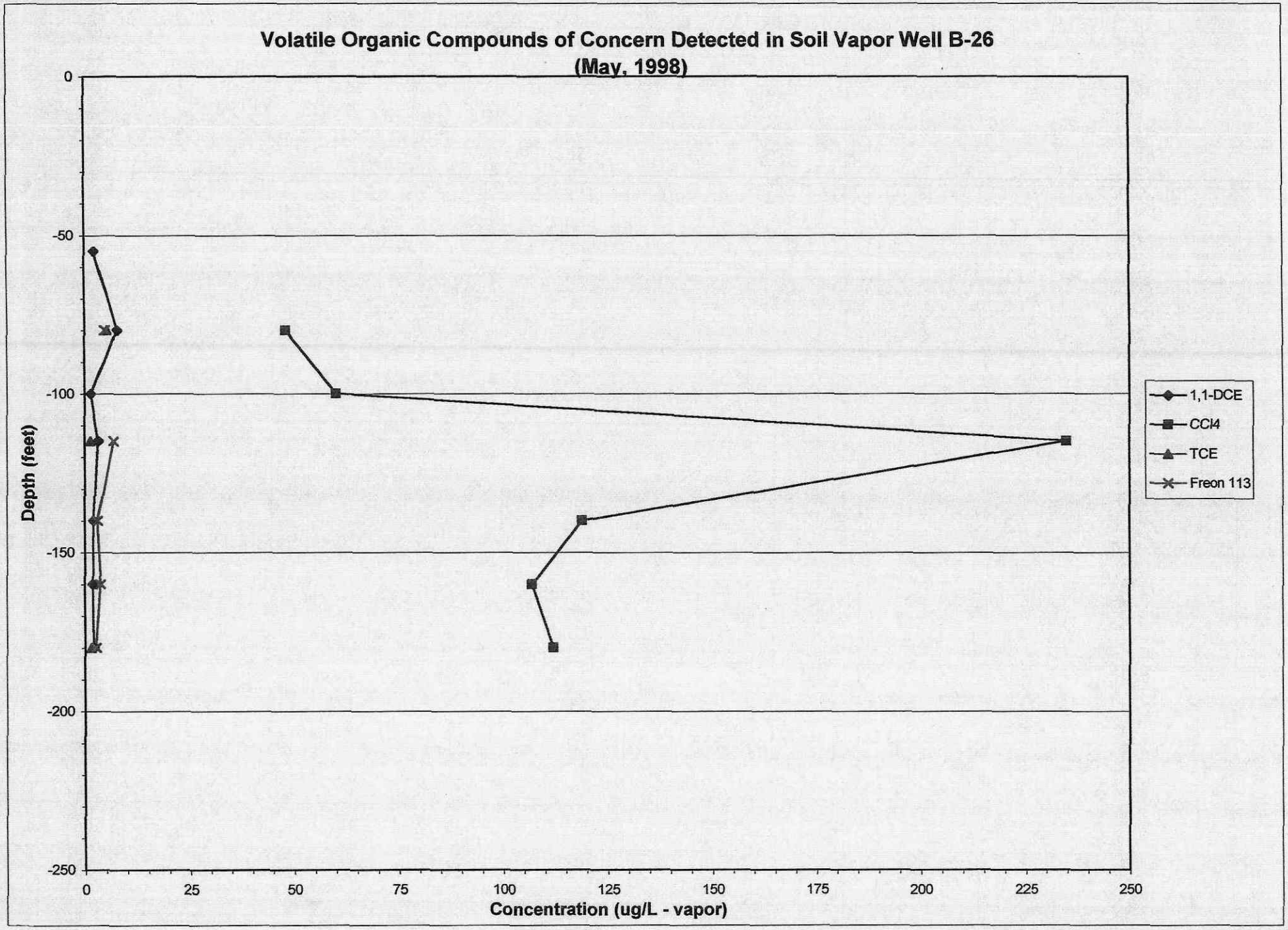
E1 – GRAPHS OF VOLATILE ORGANIC COMPOUNDS OF POTENTIAL CONCERN DETECTED IN SOIL VAPOR WELL NOS. 25 THROUGH 28 AND NOS. 32 THROUGH 39, EVENT 6

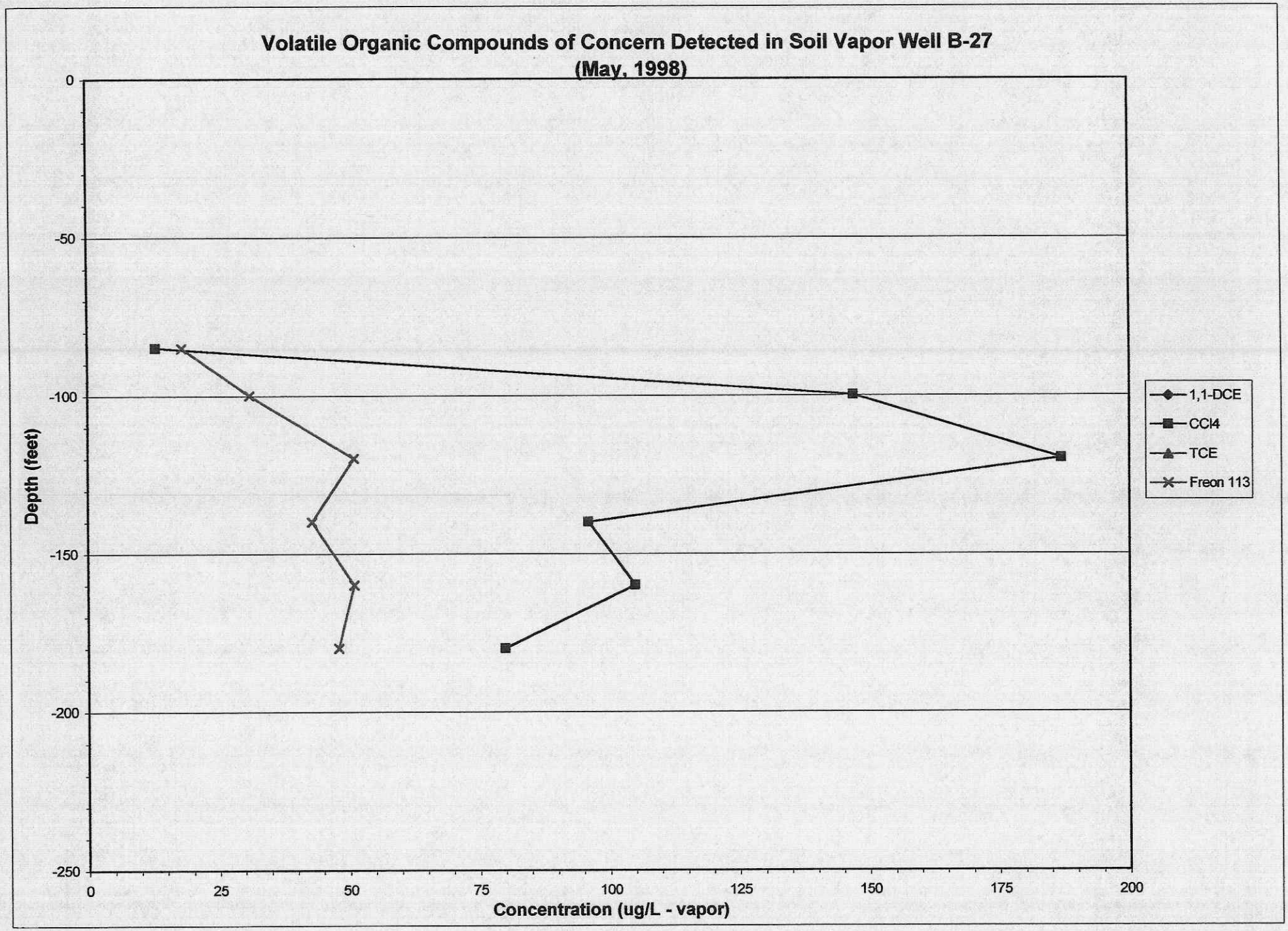
E2 – GRAPHS OF VOLATILE ORGANIC COMPOUNDS OF POTENTIAL CONCERN DETECTED IN SOIL VAPOR WELL NOS. 32 THROUGH 39, EVENT 7

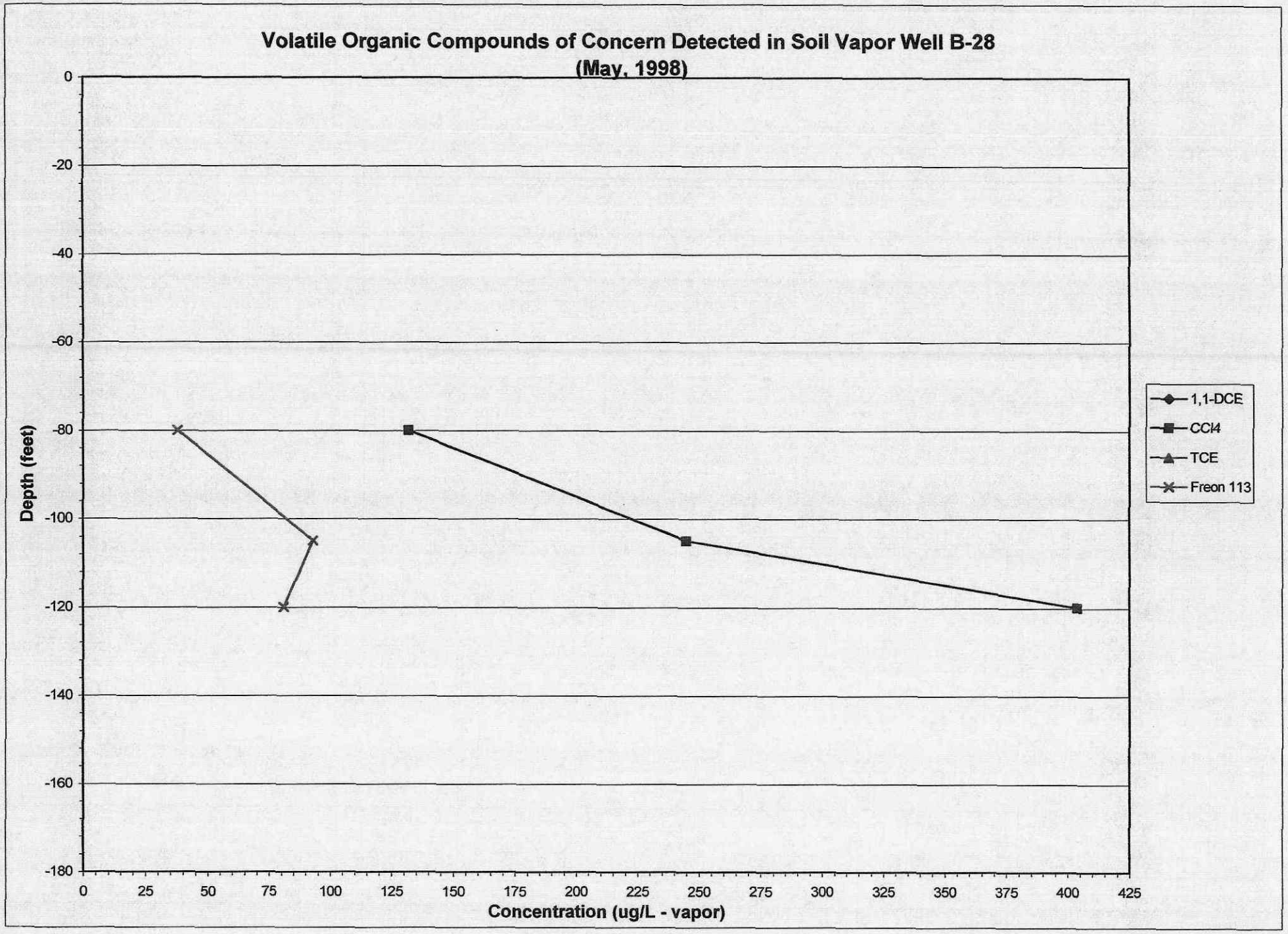
APPENDIX E1

GRAPHS OF VOLATILE ORGANIC COMPOUNDS OF POTENTIAL CONCERN DETECTED IN SOIL VAPOR WELL NOS. 25 THROUGH 28 AND NOS. 32 THROUGH 39, EVENT 6

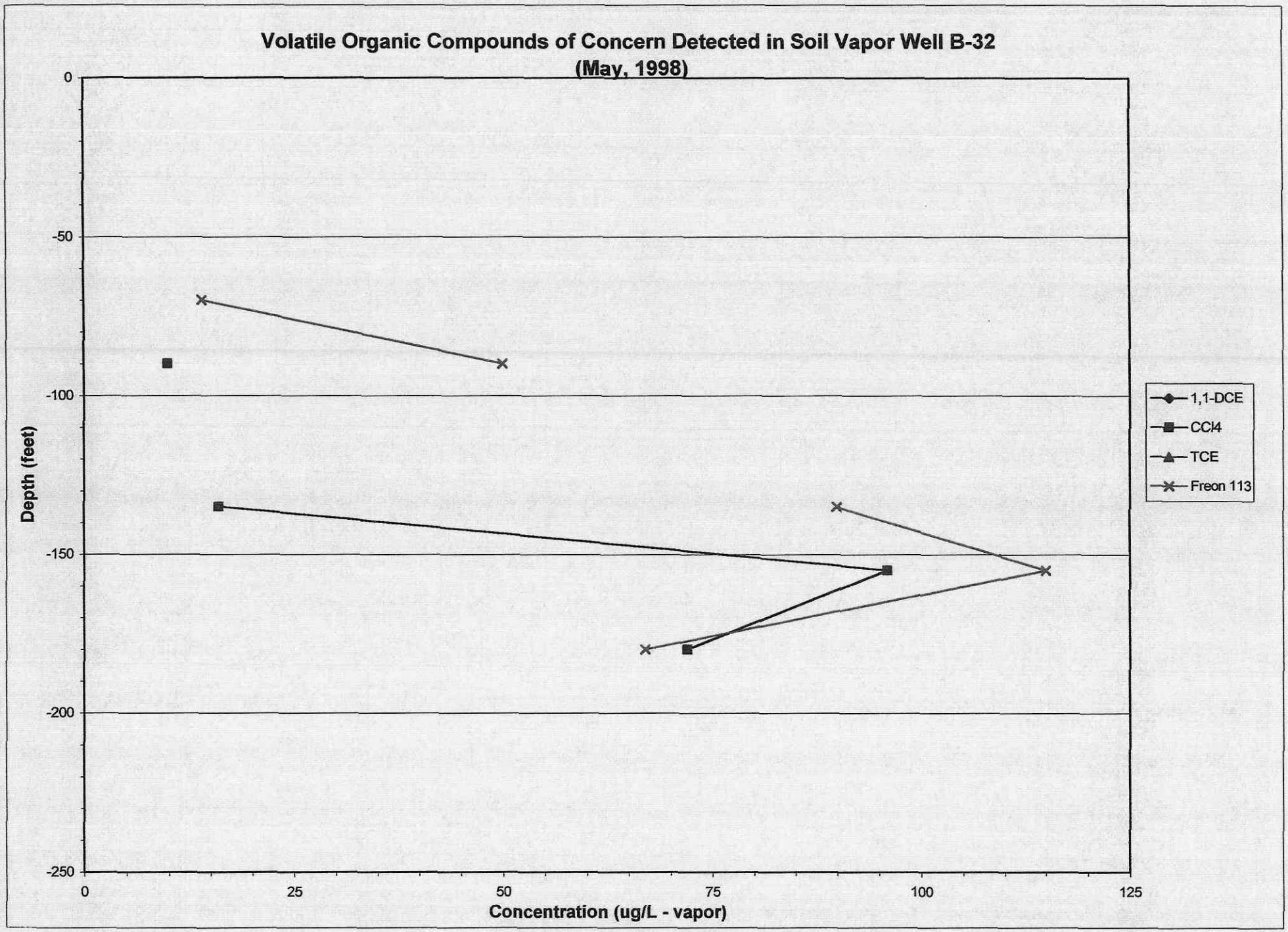

Volatile Organic Compounds of Concern Detected in Soil Vapor Well B-25
(May, 1998)
Depth (feet)
0
-20
-40
-60
-80
-100
-120
-140
-160
-180
-200
0
25
50
75
100
125
150
175
200
225
250
275
300
Concentration (ug/L - vapor)
1,1-DCE
CCl4
TCE
Freon 113


Volatile Organic Compounds of Concern Detected in Soil Vapor Well B-26
(May, 1998)
Depth (feet)
0
-50
-100
-150
-200
-250
0
25
50
75
100
125
150
175
200
225
250
Concentration (ug/L - vapor)
1,1-DCE
CCl4
TCE
Freon 113


Volatile Organic Compounds of Concern Detected in Soil Vapor Well B-27
(May, 1998)
Depth (feet)
0
-50
-100
-150
-200
-250
0
25
50
75
100
125
150
175
200
Concentration (ug/L - vapor)
1,1-DCE
CCl4
TCE
Freon 113


Volatile Organic Compounds of Concern Detected in Soil Vapor Well B-28
(May, 1998)
Depth (feet)
0
-20
-40
-60
-80
-100
-120
-140
-160
-180
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
375
400
425
Concentration (ug/L - vapor)
1,1-DCE
CCl4
TCE
Freon 113

Continue


Volatile Organic Compounds of Concern Detected in Soil Vapor Well B-32
(May, 1998)
Depth (feet)
0
-50
-100
-150
-200
-250
0
25
50
75
100
125
Concentration (ug/L - vapor)
1,1-DCE
CCl4
TCE
Freon 113