

FAX TRANSMITTAL

Caltrans District 4
Environmental Engineering Branch
111 Grand Avenue, 14th Floor
Oakland, CA 94612

Date: 4/18/95

Total Pages: ~~8~~ 7

To: Susan Hugo
Alameda County Health Agency
Telephone Number: (510) 567-6780
Facsimile Number: (510) 337-9335

Message: Results of soil and groundwater testing under the former Container Freight warehouse.

From: Christopher Wilson, P.E.
Environmental Engineering Branch
Telephone Number: (510) 286-5647
Facsimile Number: (510) 286-5642

Mailing Address: Caltrans District 4
P. O. Box 232660
Oakland, CA 94623-0660

Table 1: Container Freight Analyses (part II)

Sample No.	Depth (ft. bgs)	Hydrocarbons (mg/kg)			6010 Metals (mg/kg)														Soluble Metals (mg/L)						
		8015-m Diesel	8015-m Gasoline	418.1 TRPH	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	7195 Chromium VI	Soluble Metals (mg/L)	Soluble Lead (WET)	Soluble Copper (WET)
B8	0	ND	-	54	-	ND	-	-	-	3.2	-	290.0	44.0	-	-	9.1	-	-	-	-	78.0	-	-	-	-
B8	4	ND	-	50	-	ND	-	-	-	8.3	-	14.0	52.0	-	-	8.2	-	-	-	-	66.0	-	-	-	-
B8	8.5	ND	-	270	-	ND	-	-	-	ND	-	13.0	81.0	-	-	6.9	-	-	-	-	100.0	4.0	-	-	-
B8 Water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B9	1	ND	-	1400	-	ND	-	-	-	3.4	-	6.2	33.0	-	-	5.6	-	-	-	-	55.0	-	-	-	-
B9	4.5	ND	-	87	-	ND	-	-	-	6.1	-	19.0	200.0	-	-	12.0	-	-	-	-	110.0	7.0	-	-	-
B9	8	ND	-	280	-	ND	-	-	-	3.1	-	47.0	480.0	-	-	12.0	-	-	-	-	180.0	-	-	1.5	-
B9	12	-	-	23	-	ND	-	-	-	4.5	-	ND	7.1	-	-	9.6	-	-	-	-	11.0	-	-	-	-
B9 Water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10	0	-	-	13	-	ND	-	-	-	4.9	-	16.0	5.3	-	-	24.0	-	-	-	-	26.0	ND	-	-	-
B10	4.5	ND	-	44	-	ND	-	-	-	50.0	-	23.0	140.0	-	-	45.0	-	-	-	-	150.0	2.0	-	-	-
B10	8.5	ND	-	29	-	ND	-	-	-	5.6	-	46.0	270.0	-	-	24.0	-	-	-	-	310.0	ND	-	-	-
B10	13	-	-	120	-	ND	-	-	-	5.9	-	41.0	270.0	-	-	21.0	-	-	-	-	290.0	ND	-	-	-
B10	15	-	-	120	-	2.3	-	-	-	9.2	-	7.0	80.0	-	-	19.0	-	-	-	-	110.0	1.0	-	-	-
B10 Water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B13	0	-	-	10	-	ND	-	-	-	6.5	-	1.2	110.0	-	-	3.6	-	-	-	-	38.0	5.0	-	-	-
B13	4.5	ND	-	12	-	ND	-	-	-	2.1	-	70.0	1600.0	-	-	6.8	-	-	-	-	200.0	-	-	-	ND

ND=Not Detected

-=Not Analyzed

Groundwater sample results are in mg/L

Table 2: Container Freight Analyses (part II)

Sample No.	Depth (ft. bgs)	8240 or 8020 VOCs (ug/kg)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Methyl Ethyl Ketone	Carbon Tetrachloride	Chlorobenzene	Chloroethane	2-Chloroethylvinyl Ether	Chloroform	Chloromethane	Dibromochloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,2-Dichloropropane	Cis-1,3-Dichloropropene	Trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	Methylene Chloride	Methyl Isobutyl Ketone	Styrene	1,1,2,2-Tetrachloroethane	Tetrachloroethane	
B8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B8	4	-	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-
B8	8.5	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-
B8 Water		78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B9	4.5	81	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9	8	88	13000	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3800	ND	ND	ND	3900	ND	ND	ND
B9	12	180	940	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	69	ND	ND	ND	ND	ND	ND	ND
B9 Water		ND	2400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150	ND	ND	ND	61	ND	ND	ND
B10	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10	4.5	-	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-
B10	8.5	-	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-
B10	13	-	-	2700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1600	-	-	-	-	-	-	-
B10	15	-	-	640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	260	-	-	-	-	-	-	-
B10 Water		ND	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND
B13	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B13	4.5	230	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND=Not Detected

--=Not Analyzed

Groundwater sample results are in ug/L

Table 3: Container Freight Analyses (part II)

Sample No.	Depth (ft. bgs)	8240/8020 VOCs (ug/kg) cont.								8270 Semi VOCs (mg/kg)																		
		Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	Total Xylenes	Phenol	Bis(2-Chloroethyl)Ether	2-Chlorophenol	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzyl Alcohol	1,2-Dichlorobenzene	2-Methylphenol	Bis(2-Chloroisopropyl)Ether	4-Methylphenol	N-Nitrosodi-N-Propylamine	Hexachloroethane	Nitrobenzene	Isophorone	2-Nitrophenol	2,4-Dimethylphenol	Benzoic Acid	Bis(2-Chloroethoxy)Methane	
B8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B8	4	ND	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8	8.5	ND	-	-	-	-	-	-	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B9	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9	8	4200	ND	ND	ND	ND	ND	ND	8100	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9	12	130	ND	ND	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9 Water		290	ND	ND	ND	ND	ND	ND	110	240	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10	4.5	ND	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10	8.5	ND	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10	13	2400	-	-	-	-	-	-	4300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10	15	730	-	-	-	-	-	-	1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10 Water		120	ND	ND	ND	ND	ND	ND	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B13	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND=Not Detected
 --Not Analyzed
 Groundwater sample results are in ug/L

Table 4: Container Freight Analyses (part II)

Sample No.	Depth (ft. bgs)	8270 Semi VOCs (mg/kg) cont.	2,4-Dichlorophenol	1,2,4-Trichlorobenzene	Naphthalene	4-Chloroaniline	Hexachlorobutadiene	4-Chloro-3-Methylphenol	2-Methylnaphthalene	Hexachlorocyclopentadiene	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	2-Chloronaphthalene	2-Nitroaniline	Dimethyl Phthalate	Acenaphthylene	3-Nitroaniline	Acenaphthene	2,4-Dinitrophenol	4-Nitrophenol	Debenzofuran	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Diethyl Phthalate	4-Chlorophenyl-Phenyl Ether	Fluorene	4-Nitroaniline	2-Methyl-4,6-Dinitrophenol	N-Nitrosodiphenylamine	4-Bromophenyl-Phenyl Ether		
B8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B8	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
B8	8.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
B8 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
B9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B9	4.5	ND	ND	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
B9	8	ND	ND	2600	ND	ND	ND	200	ND	ND	ND	ND	ND	ND	230	ND	170	ND	ND	83	ND	ND	ND	ND	ND	160	ND	ND	ND	ND	ND	
B9	12	ND	ND	250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	10	ND	ND	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	ND		
B9 Water		ND	ND	18000	ND	ND	ND	210	ND	ND	ND	ND	ND	ND	510	ND	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
B10	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B10	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10	8.5	ND	ND	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52	ND	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10	13	ND	ND	910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200	ND	110	ND	ND	ND	ND	ND	ND	ND	ND	72	ND	ND	ND	ND	ND	ND
B10	15	ND	ND	720	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	97	ND	49	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	
B10 Water		ND	ND	23000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3600	ND	4200	ND	ND	ND	ND	ND	ND	ND	ND	1600	ND	ND	ND	ND	ND	ND
B13	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B13	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND=Not Detected

--Not Analyzed

Groundwater sample results are in ug/L

Table 5: Container Freight Analyses (part II)

Sample No.	Depth (ft. bgs)	8270 Semi VOCs (mg/kg) cont.	Hexachlorobenzene	Pentachlorophenol	Phenanthrene	Anthracene	Di-N-Butyl Phthalate	Fluoranthene	Pyrene	Butyl Benzyl Phthalate	3,3-Dichlorobenzidine	Benzo(A)Anthracene	Bis(2-Ethylhexyl)Phthalate	Chrysene	Di-N-Octyl Phthalate	Benzo(B)Fluoranthene	Benzo(K)Fluoranthene	Benzo(A)Pyrene	Indeno(1,2,3-C,D)Pyrene	Dibenzo(A,H)Anthracene	Benzo(G,H,I)Perylene	
B8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B8	4	ND	ND	1.1	ND	ND	1.5	1.9	ND	ND	ND	ND	0.7	ND	0.5	0.7	0.9	0.6	ND	1.1		
B8	8.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8 Water		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B9	4.5	ND	ND	240	44	ND	170	190	ND	ND	46	ND	68	ND	28	37	77	40	ND	49		
B9	8	ND	ND	900	180	ND	600	620	ND	ND	190	ND	190	ND	120	130	230	140	19	170		
B9	12	ND	ND	45	8	ND	10	34	ND	ND	7	ND	11	ND	6	7	12	6	ND	12		
B9 Water		ND	ND	680	ND	ND	310	350	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B10	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B10	4.5	ND	ND	18	ND	ND	70	86	ND	ND	22	ND	29	ND	21	26	45	30	ND	48		
B10	8.5	ND	ND	270	40	ND	200	220	ND	ND	44	ND	64	ND	29	52	77	38	ND	63		
B10	13	ND	ND	870	120	ND	570	630	ND	ND	120	ND	160	ND	86	140	190	120	ND	180		
B10	15	ND	ND	450	67	ND	280	310	ND	ND	73	ND	93	ND	52	71	120	74	13	110		
B10 Water		ND	ND	22000	4300	ND	12000	14000	ND	ND	2800	ND	5800	ND	2500	2700	5000	3300	470	5100		
B13	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B13	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND=Not Detected
 --=Not Analyzed
 Groundwater sample results are in ug/L