

# ENVIRONMENT & TECHNOLOGY SERVICES

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December 11, 1991

Mr. Dennis Byrne  
Senior Hazardous Materials Specialist  
Alameda County Health Care Services  
80 Swan Way, Room 200  
Oakland, CA 94621

Subject: Decommissioning of Vapor Extraction System  
5800 Christie Avenue, 94608  
Emeryville, California

Dear Mr. Byrne:


As per your approval letter dated November 27, 1991 on the work plan of the closure of the subject system, we have collected the verification soil samples(3) on November 27, 1991 as outlined in the closure work plan prepared by Environment & Technology Services(ETS). The attached figure depicts the sample locations. The soil samples were collected at a depth of about five(5) feet below grade. The ground water table in the area is at about six(6) feet below grade. These soil samples were analysed by a certified laboratory for EPA 8010 and 8020 compounds and total petroleum hydrocarbons as gasoline. The analysis results are attached and summarized below:

	SOIL SAMPLE LOCATIONS			AVERAGE CONCENTRATION
	G	H	I	
8010 COMPOUNDS(TOX)	ND	0.073	1.017	0.363
GASOLINE(TPH)	ND	1.500	ND	0.500
TOTAL VOCs	ND	1.573	1.017	0.863

Concentrations expressed in mg/kg(parts per million)

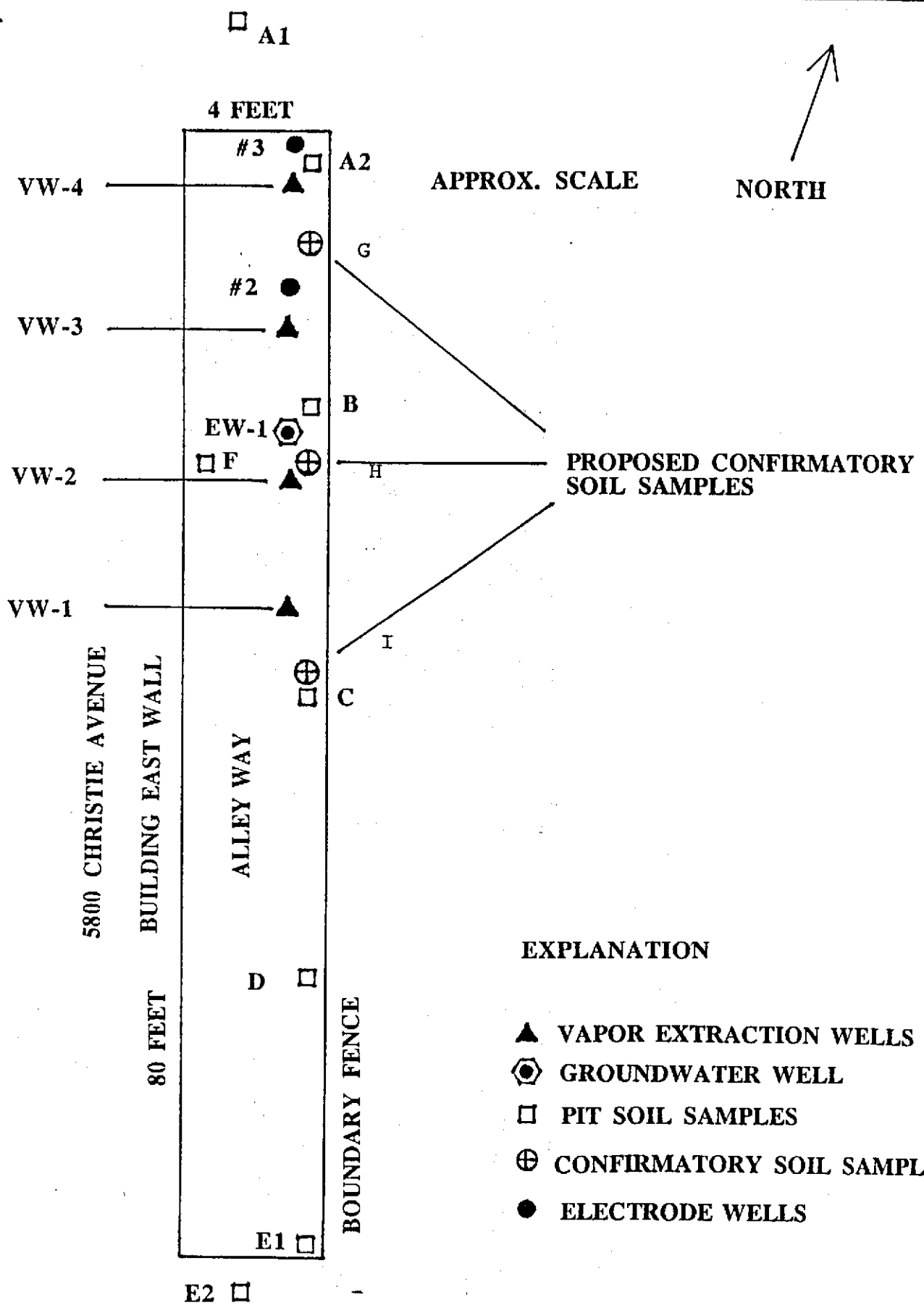
The total VOCs concentrations on all soil samples were below 5 ppm and the average concentration of total VOCs is below 1 ppm. We hereby, seek your approval to proceed on the decommissioning of the vapor extraction system as specified in the November 15, 1991 closure work plan. Upon your approval, we will notify the Bay Area Air Quality Management District(BAAQMD) on the discontinuation of the vapor extraction system. We sincerely appreciate your co-operations and prompt responsiveness on this matter. Thanks !

Sincerely,



Walter W. Loo R.G. C.E.G.

cc: Mr. Dick Herring, Croley and Herring Investment Company  
ATTACHMENTS



**ETS**

ENVIRONMENT & TECHNOLOGY SERVICES

SOIL SAMPLING LOCATIONS

**EPA METHOD 5030/Mod. 8015  
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP**

<b>CLIENT:</b>	CHIC	<b>DATE REC'D:</b>	12/03/91
<b>PROJECT:</b>	N/A	<b>DATE ANALYZED:</b>	12/09/91
<b>CONTROL NO:</b>	911207	<b>MATRIX:</b>	Soil

<u>SAMPLE ID:</u>	<u>CONTROL NO:</u>	<u>RESULTS</u> <u>(mg/kg)</u>	<u>DETECTION LIMIT</u> <u>(mg/kg)</u>	<u>Surrogate</u> <u>Rec. (%)</u>
G	911207-1	ND	1.0	91
H	911207-2	1.5	1.0	119
I	911207-3	ND	1.0	100
Method Blank	911207	ND	1.0	106

EPA METHODS - 8010/8020

CLIENT:	CHIC	DATE REC'D:	12/03/91
PROJECT:	N/A	DATE ANALYZED:	12/09/91
SAMPLE ID:	G	MATRIX TYPE:	Soil
CONTROL NO:	911207-1		

<u>PARAMETERS (8010)</u>	<u>RESULTS</u> <u>(ug/kg)</u>	<u>DETECTION LIMIT</u> <u>(ug/kg)</u>
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	ND	5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND	5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	5
<b>* Surrogate Recovery</b>	<b>25</b>	
<b>PARAMETERS (8020)</b>		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Xylenes	ND	5
<b>* Surrogate Recovery</b>	<b>91</b>	

EPA METHODS - 8010/8020

CLIENT:	CHIC	DATE REC'D:	12/03/91
PROJECT:	N/A	DATE ANALYZED:	12/09/91
SAMPLE ID:	H	MATRIX TYPE:	Soil
CONTROL NO:	911207-2		

<u>PARAMETERS (8010)</u>	<u>RESULTS (ug/kg)</u>	<u>DETECTION LIMIT (ug/kg)</u>
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethane	ND	5
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	33	5
Trans-1,2-Dichloroethene	40	5
1,1-Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	ND	5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND	5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	5
<u>* Surrogate Recovery</u>	125	
<u>PARAMETERS (8020)</u>		
Benzene	76	5
Toluene	6.2	5
Ethylbenzene	100	5
Xylenes	86	5
<u>* Surrogate Recovery</u>	91	

EPA METHODS - 8010/8020

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CLIENT:      CHIC                      DATE REC'D:   12/03/91
PROJECT:     N/A                      DATE ANALYZED: 12/09/91
SAMPLE ID:   I                       MATRIX TYPE:   Soil
CONTROL NO:  911207-3
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<u>PARAMETERS (8010)</u>	<u>RESULTS (ug/kg)</u>	<u>DETECTION LIMIT (ug/kg)</u>
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	17	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	420	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	580	5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	ND	5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND	5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	5
<u>% Surrogate Recovery</u>	70	
<u>PARAMETERS (8020)</u>		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Xylenes	ND	5
<u>% Surrogate Recovery</u>	94	

