

Engineering

April 13, 1990

Mr. Gil Wistar
Alameda County Department of
Health Services
80 Swan Way, Room 200
Oakland, CA 94621

RE: Dublin, CA

Dear Mr. Wistar:

Enclosed please find Dr. Selditch's report on remediation at our
Dublin, California, store, I note that 17W is an error and should
be labeled as 12W.

Dr. Selditch is not available for this project. I have retained
SCS Engineering of Dublin to provide future services. Please
contact Mr. Daniel Davis or Mr. Kent Madenwald at 829-0661 or myself
at 794-2337. Thank you.

Yours truly,



Charlie R. West
Field Engineering Manager

CRW/ba

Enc.

cc: Daniel Davis

90 APR 17 AM 10:49

Montgomery Ward Co.
3920 Fremont Blvd.
Fremont CA 94538

Project No. 1188002-R
Dublin Boulevard
Dublin, California

Attn: Charlie West

INTRODUCTION

The following discusses the results of the remedial actions to date at your Dublin Boulevard, Dublin CA site. Additionally, it proposes a schedule for continuing sampling activity for the site.

DISCUSSION

System Design Corrections

The Carbon Treatment System has been renovated and is now functioning continuously. To achieve this we removed the original filters and replaced them with larger bag filters, and corrected some piping anomalies. The system continues to treat the groundwater to produce ~~0.01~~ ppm TPH with minimal maintenance.

Monitoring Results

<0.1

The following table displays the results of sample analysis to date. Location of wells sampled are shown in Figure 1.

		all values mg/l(ppm)						
Sample Date		5W	10W	12W	15W	16W	17W	Discharge
12/13/89								
TPH	12.	20.	?	4.	14.	22.		0.01
Benzene	2.7	4.2		1.3	1.8	4.7		<0.1
Toluene	0.8	4.5		0.3	1.5	5.4		
Ethyl Benzene	0.2	1.5		0.2	1.9	1.2		
Xylene	0.7	4.0		0.7	2.2	22.		
Sample Date								
2/22/90								
TPH	42	27	45	0.1	5.8	45		0.01
Benzene	11	5.3	8.5	0.6	1.1	8.5		<0.1
Toluene	1.0	1.4	4.4	0.01	0.05	4.4		
Ethyl Benzene	0.01	1.3	0.7	0.01	0.04	0.7		
Xylene	0.01	100	1.0	0.01	0.01	1.0		

The sample results to date indicate that the Carbon Treatment System is functioning as designed and the ground dewatering program is effective and continued operation should be effective in cleaning the site groundwater.

RECOMMENDATIONS

We recommend the following sampling schedule be incorporated as part of the Groundwater Cleanup Plan.

Time Period	Frequency	Monitoring Wells		Carbon Drum Discharge
		TPH	BTEX	TPH
First 6 months	Monthly	x	x	x
Next 6 months	Bi-monthly	x	x	
Month 7 on	Quarterly	x	x	

Additionally, we recommend that sampling, analysis and report preparation be performed by a third party. This will present an independent report of project performance for submission to the agencies.

Figure 1
Site Layout Showing Sample Points

05

SPRINKLER MAIN

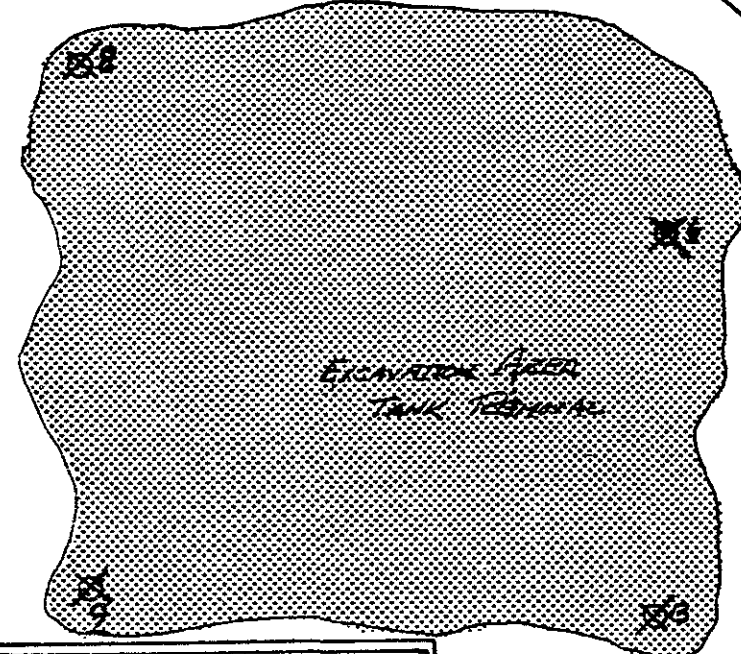
FIRE MAIN

- MONITORING WELL
- ⊗ ABANDONED WELL
- APPROXIMATE LOCATION GROUNDWATER DEPRESSION WELL

STRAIGHT LINE DISTANCES BETWEEN MONITORING WELLS

Well No.	5	6	10	12	15	16
5		43.4	244	48.9	103.4	82.3
6	43.4		57.3	15.6	94.5	73.1
10	244	57.3		62.5	121.1	83.6
12	48.9	15.6	62.5		94.5	94.5
15	103.4	94.5	121.1	94.5		125.5
16	82.3	73.1	83.6	94.5	125.5	

ALL DIMENSIONS IN FEET



○_R □

06

05

00

A.D. SELDITCH & ASSOCIATES
 6247E - JACOBSON PARKWAY
 NEWARK, CA 94560
 (415) 947-1758

DUBLIN BLVD.
 FIGURE FOUR

MONTGOMERY-WHARREN
 DUBLIN, CA
 Site Location Showing Monitoring Wells
 2/5/89



**SCIENTIFIC ENVIRONMENTAL
LABORATORIES, INC.**

A.D. Selditch & Associate, Inc.
6267 Joaquin Murietta Suite E
Newark, CA 94560


Release Date : 3-2-90
Lab. ID. : W900104
Recv'd : 2-23-90 @1247
Col'd : 2-23-90 @1600
Analyzed : 2-26-90
Analyst : DH
Project #: 1188002R
Sample ID: 5
Matrix : Liquid

Attn: Dr. Alan Selditch

Method : EPA 8015/602

<u>Analysis</u>	<u>Results</u> (mg/L)
Benzene	11
Toluene	1.0
Ethyl Benzene	< 0.1
Xylene	< 0.1
Total Petroleum Hydrocarbons	42

SF:tt



Shui Fong
Director, Water Laboratory



**SCIENTIFIC ENVIRONMENTAL
LABORATORIES, INC.**

A.D. Selditch & Associate, Inc.
6267 Joaquin Murietta Suite E
Newark, CA 94560

Attn: Dr. Alan Selditch

Release Date : 3-2-90
Lab. ID. : W900105
Recv'd : 2-23-90 @1247
Col'd : 2-22-90 @1600
Analyzed : 2-26-90
Analyst : DH
Project #: 1188002R
Sample ID: 10
Matrix : Liquid

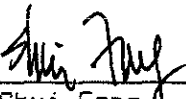
Method : EPA 8015/602

Analysis

Results (mg/L)

Benzene	27
Toluene	5.3
Ethyl Benzene	1.4
Xylene	1.3
Total Petroleum Hydrocarbons	100

SF:tt



Shui Fong
Director, Water Laboratory



**SCIENTIFIC ENVIRONMENTAL
LABORATORIES, INC.**

A.D. Selditch & Associate, Inc.
6267 Joaquin Murietta Suite E
Newark, CA 94560


Release Date : 3-2-90
Lab. ID. : W900106
Recv'd : 2-23-90 @1247
Col'd : 2-22-90 @1600
Analyzed : 2-26-90
Analyst : DH
Project #: 1188002R
Sample ID: 15
Matrix : Liquid

Attn: Dr. Alan Selditch

Method : EPA 8015/602

<u>Analysis</u>	<u>Results</u> (mg/L)
Benzene	0.06
Toluene	< 0.01
Ethyl Benzene	< 0.01
Xylene	< 0.01
Total Petroleum Hydrocarbons	0.1

SF:tt



Shui Fong
Director, Water Laboratory



**SCIENTIFIC ENVIRONMENTAL
LABORATORIES, INC.**

A.D. Selditch & Associate, Inc.
6267 Joaquin Murietta Suite E
Newark, CA 94560

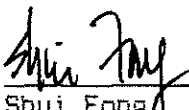
Attn: Dr. Alan Selditch

Release Date : 3-2-90
Lab. ID. : W900107
Recv'd : 2-23-90 @1247
Col'd : 2-22-90 @1600
Analyzed : 2-26-90
Analyst : DH
Project #: 1188002R
Sample ID: 16
Matrix : Liquid

Method : EPA 8015/602

<u>Analysis</u>	<u>Results</u> (mg/L)
Benzene	1.1
Toluene	0.05
Ethyl Benzene	0.04
Xylene	< 0.01
Total Petroleum Hydrocarbons	5.8

SF:tt



Shui Fong
Director, Water Laboratory



**SCIENTIFIC ENVIRONMENTAL
LABORATORIES, INC.**

A.D. Selditch & Associate, Inc.
6267 Joaquin Murieta Suite E
Newark, CA 94560

Attn: Dr. Alan Selditch

Release Date : 3-2-90
Lab. ID. : W900108
Recv'd : 2-23-90 @1247
Col'd : 2-22-90 @1600
Analyzed : 2-26-90
Analyst : DH
Project #: 1188002R
Sample ID: 12-SI
Matrix : Liquid

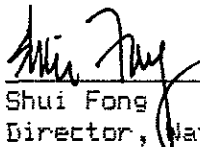
Method : EPA 8015/602

Analysis

Results (mg/L)

Benzene	8.5
Toluene	4.4
Ethyl Benzene	0.7
Xylene	1.0
Total Petroleum Hydrocarbons	45

SF:tt



Shui Fong
Director, Water Laboratory

L-7PH 165- 990
 S RET 165- 825

A.D. Selditch and Assoc. Inc.
 62673- Joaquin Marieta Ave., Newark, CA 94560
 415-490-1759 Fax 415-770-9608

Chain of Custody Record

PROJECT NO. 1188002R			ANALYSES							NUMBER OF CONTAINERS	REMARKS (Sample preservation, handling procedures, etc.)
SAMPLERS: (Signature) <i>A.D. Selditch</i>			General Mineral	Priority Pollutant Metals	EPA Method 624	EPA Method 625	EPA Method 608	TPH - PWT	BTEX - G200		
DATE	TIME	SAMPLE NUMBER									
7/26	4:00	1188002R-5						X	X	1	all water samples.
		1188002R-10						X	X	1	
		1188002R-15						X	X	1	
		1188002R-16						X	X	1	
		1188002R-12-SI						X	X	1	
		1188002R-50						X		1	
									TOTAL NUMBER OF CONTAINERS	6	

RELINQUISHED BY: (Signature) <i>A.D. Selditch</i>	DATE/TIME 7/26	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME 1	RECEIVED BY: (Signature)
METHOD OF SHIPMENT: F.L.H.	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature) <i>Tina Tucker</i>	DATE/TIME 7/26/90 12:47	



**SCIENTIFIC ENVIRONMENTAL
LABORATORIES, INC.**

A.D. Selditch & Associate, Inc.
6267 Joaquin Murietta Suite E
Newark, CA 94560

Released Date : 3-2-90
Lab. ID : W900109
Rev'd : 2-23-90 @1247
Col'd : 2-22-90 @1600
Analyzed : 2-26-90
Analyst : DH
Project # : 1188002R
Sample ID : S.O.
Matrix : Liquid

Method : EPA 8015, 5030

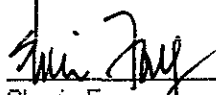
Analysis

Result (mg/L)

Total Petroleum Hydrocarbons

< 0.1

SF:tt



Shui Fong
Director, Water Laboratory