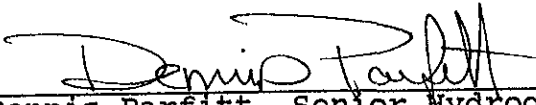


FIELD INVESTIGATION OF AN  
UNDERGROUND STORAGE TANK,  
FORMER GROW GROUP FACILITY  
EMERYVILLE, CALIFORNIA

Submitted to:

Grow Group, Inc.  
Louisville, Kentucky

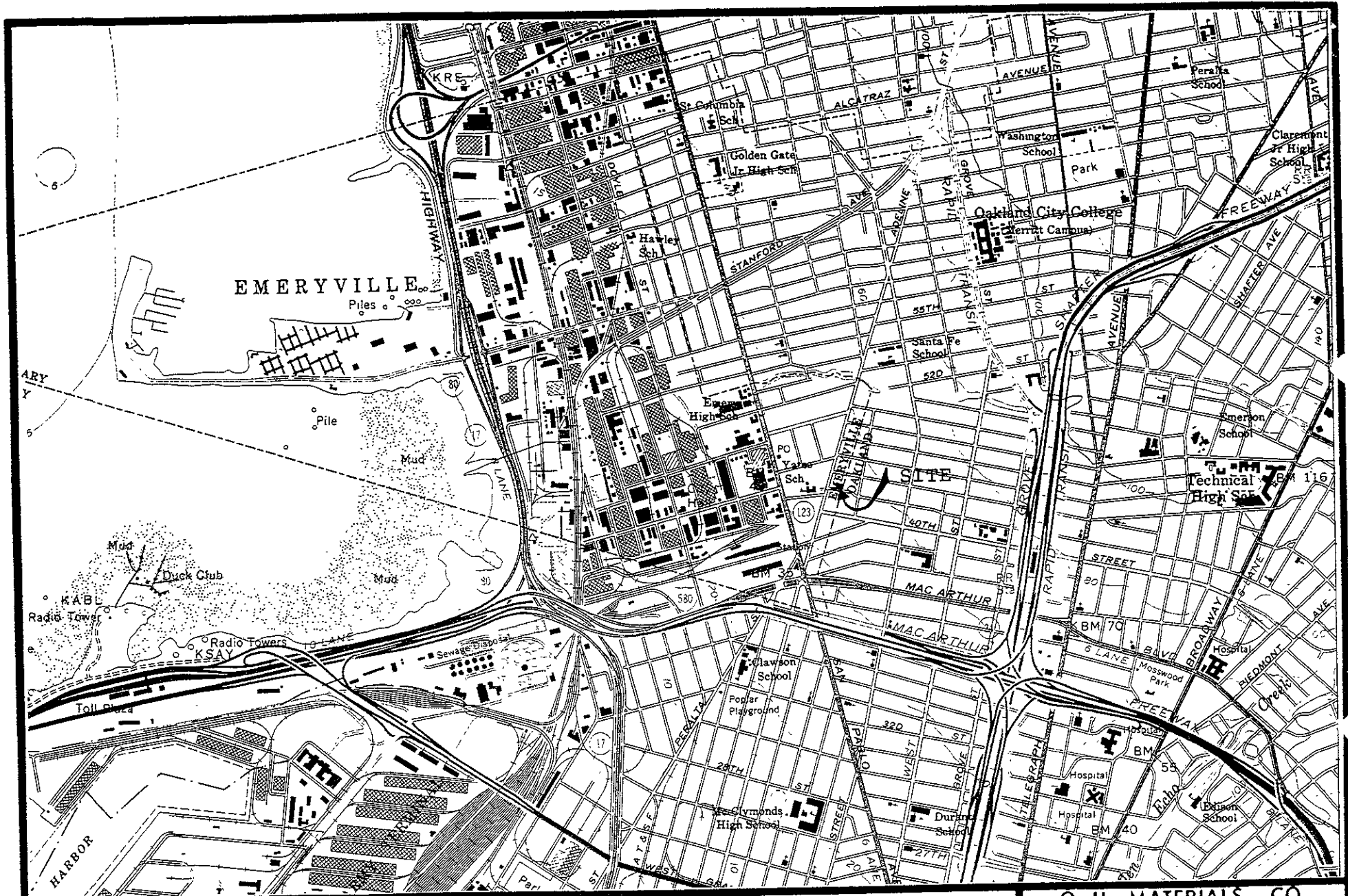
O.H. Materials Corp.

  
Dennis Parfitt, Senior Hydrogeologist  
CEG 1223

March 29, 1988 ✓  
Project 5679 ✓

TABLE OF CONTENTS

1.0	INTRODUCTION .....	1-1
1.1	LOCATION .....	1-1
1.2	FACILITY DESCRIPTION .....	1-1
2.0	SCOPE OF WORK .....	2-1
3.0	METHODOLOGY .....	3-1
3.1	TEMPORARY MONITOR WELL INSTALLATION .....	3-1
3.2	TANK CONTENTS SAMPLING .....	3-1
3.3	GROUND-WATER SAMPLING .....	3-1
3.4	LABORATORY ANALYSIS .....	3-1
4.0	RESULTS .....	4-1
4.1	SUBSURFACE GEOLOGY AND HYDROGEOLOGY .....	4-1
4.2	GROUND WATER AND TANK CONTENTS CHEMISTRY ....	4-1
4.3	PRESENT SITE OPERATIONS .....	4-2
5.0	INTERPRETATIONS .....	5-1
6.0	RECOMMENDATIONS .....	6-1
APPENDIX A - CHAIN-OF-CUSTODY AND LABORATORY ANALYTICAL REPORTS		
APPENDIX B - BORING LOG		

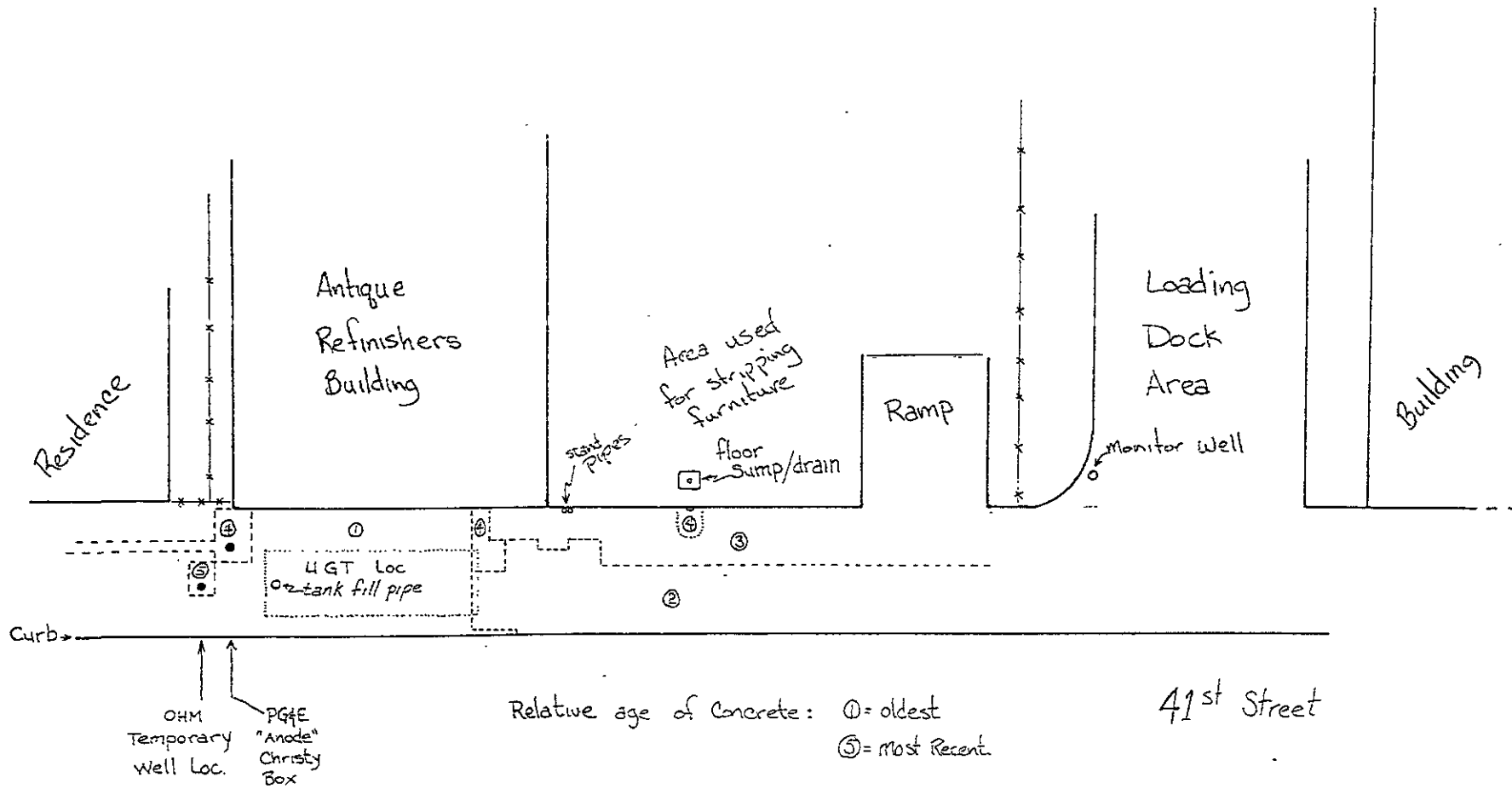


SCALE 1" = 2000'	DRAWN BY	NO.	DATE	REVISION	BY
DATE	CHECKED				
SHEET ___ OF ___	APPROVED				

**FIGURE 1.1**  
**GROW GROUP, EMERYVILLE**  
**SITE LOCATION MAP**

**O. H. MATERIALS CO.**  
 EMERGENCY RESPONSE AND ENVIRONMENTAL RESTORATION  
 BOX 531      FINDLAY, OHIO  
 419-423-3528      800-537-9540

PROJECT	DRAWING	REVISION
---------	---------	----------



SCALE	DRAWN BY	NO.	DATE	REVISION	BY
1" = 10'	D. Griffith				
DATE	CHECKED				
2-15-88					
SHEET 1 OF 1	APPROVED				

Figure 1.2  
Grow Group - Site plan  
Emeryville, CA

**O. H. MATERIALS CO.**

EMERGENCY RESPONSE AND ENVIRONMENTAL RESTORATION

BOX 551 FINDLAY, OHIO  
419/423-3528 800/537-9540

PROJECT	DRAWING	REVISION
5679		

## 1.0 INTRODUCTION

This report presents the results of a subsurface investigation that was conducted by O.H. Materials Corp. (OHM) at the former Grow Group facility located in Emeryville, California. The purpose of the investigation was to gather ground water and tank content samples for analyses prior to closing the tank in place. ✓

### 1.1 LOCATION

The former Grow Group facility is located in Emeryville, California on 41st Street between Adeline and Linden Streets (Figure 1.1).

### 1.2 FACILITY DESCRIPTION

The former Grow Group facility was sold to Oakland National Engravers in 1980. Prior to 1980, Ameritone Paint, a subsidiary of Grow Group, manufactured paint at the facility. The process involved the use of pigments, resins, and mineral spirits.

Currently, a firm involved in the restoration of antique furniture occupies that portion of the former Grow Group facility immediately adjacent to the storage tank location (Figure 1.2). Across 41st from the former Grow Group facility is the Dunne Paint Company which is currently engaged in activities similar to those undertaken by Ameritone Paint at the subject site.

## 2.0 SCOPE OF WORK

The scope of work completed by OHM for this investigation is as follows:

- o Installation of a temporary monitor well at the down gradient end of the underground tank to facilitate collection of a ground water sample for analysis
- o Collection of a sample of the tank contents for analysis
- o Preparation of a report documenting OHM activities and findings

### 3.0 METHODOLOGY

The specific techniques used by OHM in conducting the investigation are discussed in the following subsections.

#### 3.1 TEMPORARY MONITOR WELL INSTALLATION

A Mobil B24 hollow-stem auger rig was used to drill a 6-inch boring to a depth of 20 feet. Soil encountered was logged according to texture, color, and moisture content by a California Certified Engineering Geologist. Upon reaching total depth, 2 inch I.D. schedule 40 PVC factory slotted screen (0.01 slots) and casing were lowered in the bore hole. Two sacks of No. 20 Monterey sand were poured into the boring from ground surface to approximately 2 feet above the top perforations. After obtaining a ground water sample for analysis, the casing was pulled and 2 cubic feet of sand/cement slurry was poured into the boring. Drill cuttings were used to fill the remainder of the boring. Excess drill cuttings were transported off site to a landfill for disposal.

#### 3.2 TANK CONTENTS SAMPLING

Prior to obtaining a sample of the tank contents, the teflon bailer used was washed in a dilute soap solution, triple rinsed with distilled water and air dried. The bailer was then lowered into the tank and a sample extracted. The sample was contained in 40 ml vials with teflon septa and then immediately transferred to an ice chest cooled to 4 degrees Celsius.

#### 3.3 GROUND WATER SAMPLING

After the contents of the tank had been sampled, the teflon bailer was again washed in a dilute soap solution, triple rinsed in distilled water and air dried. The temporary monitor well was then bailed of two casing volumes of ground water and allowed 30 minutes to recovery prior to sample collection. The sample withdrawn was contained in 40 ml vials with teflon septa and placed immediately in an ice chest cooled to 4 degrees Celsius.

#### 3.4 LABORATORY ANALYSIS

The same day the ground water and tank content samples were collected, OHM delivered them to a state certified laboratory for EPA Method 624 and total petroleum hydrocarbon (light fraction) analysis. Included with the two samples was a travel blank to document QA/QC. Chain-of-custody reporting accompanied the samples. The chain-of-custody report and lab analytical reports are contained in Appendix A.

## 4.0 RESULTS

The hydrogeologic, geologic and anthropogenic observations and analytical results obtained from the field investigation are presented in the following sections.

### 4.1 SUBSURFACE GEOLOGY AND HYDROGEOLOGY

The USGS<sup>1</sup> has mapped the area of the former Grow Group site as being underlain by late Pleistocene alluvium consisting of "... weakly consolidated, slightly weathered, poorly sorted, irregular interbedded clay, silt, sand and gravel..." that "... grades progressively from coarse-grained stream deposits in bedrock canyons and at the heads of old alluvial fans into fine-grained alluvial fan and fresh-water marsh deposits." This description is consistent with sediments encountered during the drilling phase of operations. The sediments at the drill site consisted predominantly of fine-grained material (clay and silt) with a small fraction (about 5 percent) of fine-to-medium gravel encountered at the 12 to 14 foot depth. A lithologic log of the boring is contained in Appendix B.

Ground water was encountered in the boring at about 13 feet. Sediments recovered from the 18 to 20 foot depth were not saturated suggesting the ground water at 13 feet is perched ground water. The ground-water flow direction, based on the slope of the land, is in a general westerly direction. Ground-water flow velocities through sediments encountered in the boring can be expected to be extremely low. If one assumes a hydraulic conductivity of  $1 \times 10^{-6}$  cm/s (conservative estimate) and a gradient of 0.10 ft/ft (relatively high estimate), a flow velocity of 3 cm/year (1.2 inches/year) is realized.

### 4.2 GROUND WATER AND TANK CONTENT CHEMISTRY

EPA Method 624 analyses show the presence of methylene chloride (2,100 ug/l) and xylene (2,400 ug/l) in the storage tank. ~~The ground-water sample showed only the occurrence of methylene chloride (720 ug/l).~~ All other EPA method 624 parameters were not detected in either sample. All parameters were below detection limits in the trip blank.

Total petroleum hydrocarbon analyses showed 610 mg/l in the ground-water sample and 37 mg/l in the tank content. An examination of the chromatograms of the two samples (Appendix A) indicates that while there is some similarity in hydrocarbons within and without the tank, ground water contains hydrocarbons not found in the tank.

---

1 USGS Prof. Paper 943, 1979.



#### 4.3 PRESENT SITE OPERATIONS

Currently, the facility adjacent to the underground storage tank is being used for the restoration of wooden furniture such as chairs, tables, dressers, and bed frames. The operation involves the stripping of old finish from the furniture and then refinishing it. Substances used in the operation include paint stripper and various wood stains, mineral spirits, and resins.

Observations made during the time of the field work on February 9, 1988 indicate that copious amounts of paint stripper are used in the refinishing operation. It was not readily apparent however, how the spent paint stripper was stored or disposed of. A sump/floor drain in the stripping area (see Figure 1.2) may be used for this purpose. Other floor drains and sinks may be assumed to be present within the facility. These may have been used to dispose of the various products used in facility operations.

The use of paint stripper (which contains methylene chloride) at the refinishing operation raises the possibility that the methylene chloride found in the tank and ground water may have originated from current site activities. In conversations with three former, long-term Grow Group employees who worked at the facility prior to 1981, the tank in question was used only to store mineral spirits. According to these same sources, methylene chloride was never used in any of the Grow Group activities at the facility (personnel communication, Henry Jones, February 23, 1988).

## 5.0 INTERPRETATIONS

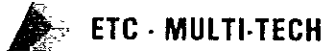
OHM has made the following interpretations based on the data and observations resulting from the investigation at the former Grow Group facility in Emeryville:

- o The difference in hydrocarbon composition between the tank contents and that found in the ground water suggests an external source of all or part of the hydrocarbons detected in ground water.
- o The presence of methylene chloride in the tank contents and ground water suggests that the tank and/or attendant plumbing has allowed the discharge of this chemical to the environment. The origin of the methylene chloride, and xylene in the tank is unknown.
- o Free product is believed to be present on the ground water adjacent to the western end of the tank. The thickness of the product layer or its areal extent is not known.

## 6.0 RECOMMENDATIONS

OHM recommends the following course of action be taken to begin mitigation of the perceived discharge from the tank and to further define site conditions:

- o Empty the tank of its contents and dispose of same at a licensed disposal site or recycler
- o Install a permanent monitor well near the down gradient (west) end of the tank to provide information on the presence of free product, water quality, and site hydrogeology
- o Disconnect the plumbing entering the east end of the tank and attempt to determine if it is connected to any drain installation currently used in the furniture refinishing operation



February 23, 1988

O.H. Materials  
Attn: Dennis Parfitt  
3900 Industrial Blvd.  
West Sacramento, CA 95691

Date Collected: 02-09-88  
Date in lab: 02-09-88  
Date analyzed: 02-19-88  
Collected by: Client  
Matrix: Liquid

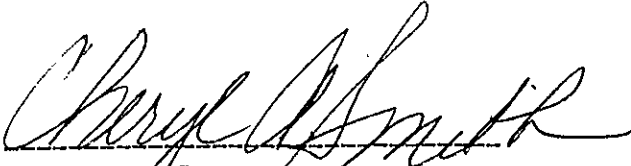
PROJECT: EMERYVILLE, GROW GROUP, PROJECT #5679

<u>Sample No.</u>	<u>Client ID</u>	<u>Total Light Hydrocarbons Result, Group B</u>	<u>Detection Limit</u>
8-0776	TB, Trip Blank	ND	50 ug/L
8-0777*	TC, Tank Contents	37 mg/L ✓	0.05 mg/L
8-0778	GWS-1, Groundwater	610 mg/L ✓	0.05 mg/L

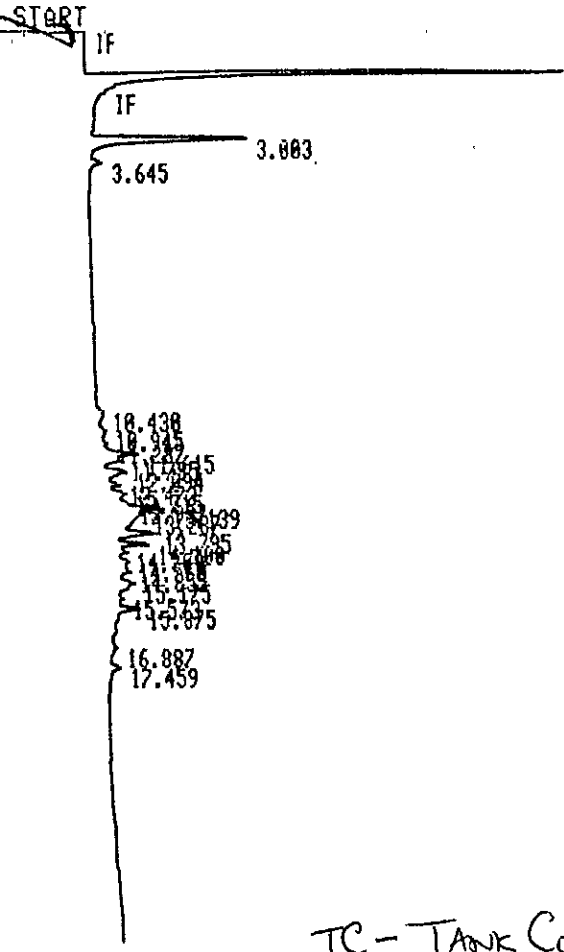
\*Sample 8-0777 was non homogeneous as free product was present.

ND = None Detected

NOTE: These total light hydrocarbon analyses were performed using EPA Methods 5030 and 8015 with a modification of the calibration standard as specified by the San Francisco Water Quality Control Board method for addressing underground fuel leaks. These samples were calibrated to gasoline.

  
Analytical Director

jmt



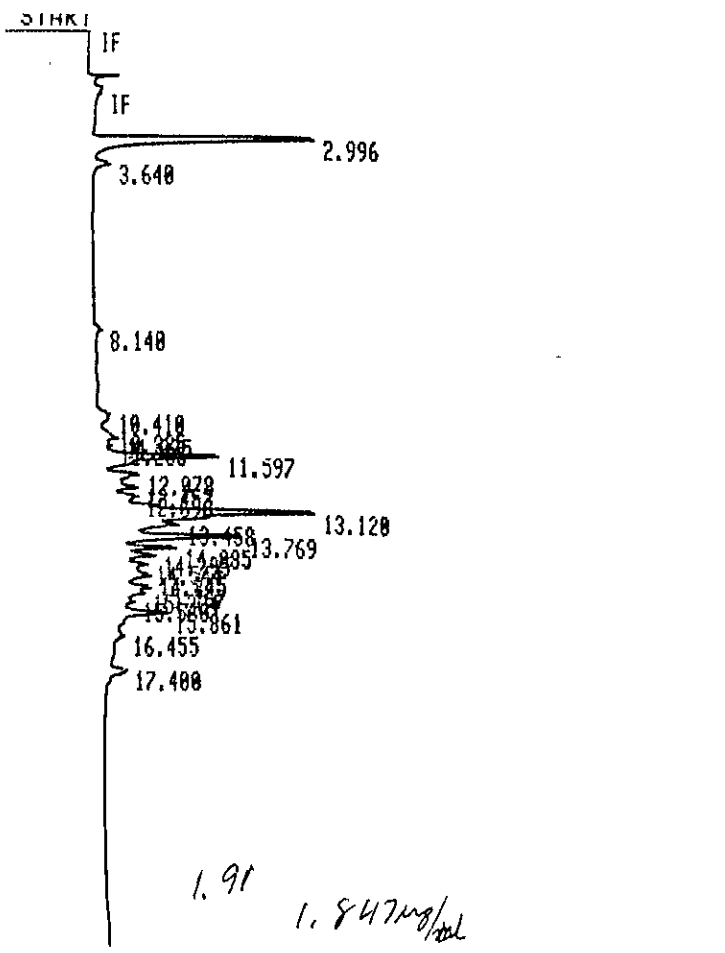
TC - TANK CONTENTS

TIMETABLE STOP

RUN# 86 FEB 19, 1988 16:38:22  
 IDENTIFIER : : LH0015 80777 (250ml)  
 AREA% 20X

RT	AREA	TYPE	WIDTH	AREA%
3.003	2483638	PB	.140	16.89346
3.645	211463	BP	.168	1.37024
10.430	99452	PV	.145	.64443
10.945	132822	VV	.152	.86066
11.287	130520	VV	.131	.84574
11.615	744533	VV	.171	4.82442
11.785	421523	VV	.169	2.73138
12.094	646423	VV	.211	4.18868
12.472	367418	VV	.165	2.38079
12.715	675334	VV	.240	4.37602
12.987	398895	VV	.122	2.58476
13.139	1001908	VV	.143	6.49215
13.287	1694236	VV	.354	10.97830
13.795	1126373	VV	.191	7.29866
14.100	728000	VV	.141	4.71729
14.389	518905	VV	.195	3.36240
14.560	488179	VV	.169	3.16330
14.855	955382	VV	.320	6.19068
15.175	642809	VV	.191	4.16527
15.573	395993	VV	.194	2.56595
15.875	805516	VV	.210	5.21957
16.887	416356	VV	.360	2.69790
17.459	346926	VV	.234	2.24801

TOTAL AREA=1.5433E+07  
 MUL FACTOR=1.0000E+00



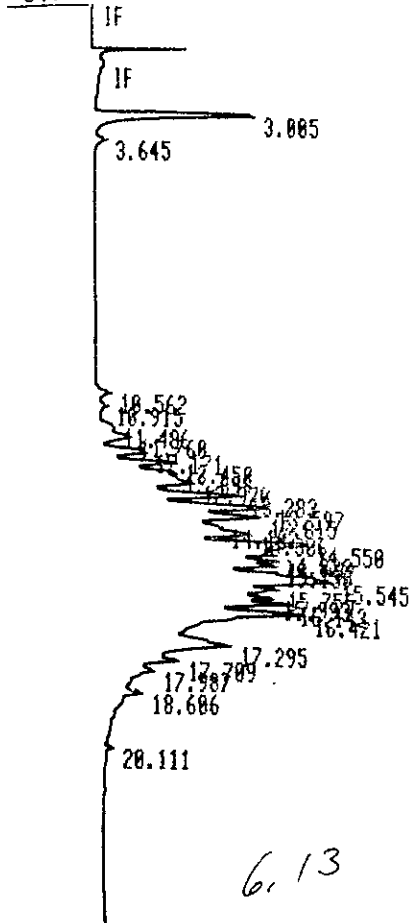
TC - TANK CONTENTS

TIMETABLE STOP

RUN# 88 FEB 19, 1988 17:58:38  
 IDENTIFIER : : LH0015 80777 1ml 20X  
 AREA%

RT	AREA	TYPE	WIDTH	AREA%
2.996	3595509	PB	.141	11.26788
3.640	293323	BP	.166	.91924
8.140	127843	PB	.179	.40064
10.410	233954	PV	.165	.73318
10.935	212682	VV	.147	.66652
11.075	324482	VV	.145	1.01689
11.265	211603	VV	.133	.66314
11.597	2734768	VV	.197	8.57043
12.078	966129	VV	.207	3.02773
12.453	907468	VV	.207	2.84389
12.696	1045977	VV	.237	3.27796
13.120	5829802	VV	.235	18.26988
13.458	1852721	VV	.203	5.80620
13.769	2699072	VV	.165	8.45856
14.085	1228737	VV	.140	3.85071
14.295	1096365	VV	.174	3.43588
14.544	982730	VV	.183	3.07976
14.845	1679927	VV	.294	5.26469
15.167	1043078	VV	.180	3.26888
15.324	891068	VV	.181	2.79250
15.560	683887	VV	.180	2.14322
15.861	1613132	VV	.216	5.05536
16.455	787009	VV	.318	2.46639
17.400	868101	VV	.337	2.72052

TOTAL AREA=3.1909E+07  
 MUL FACTOR=1.0000E+00



TIMETABLE STOP

*600 mg/L*

GWS - Groundwater Sample

RUN# 87 FEB 19, 1988 17:18:46

IDENTIFIER : : LH8015 P-0778 10ml  
 AREA%

RT	AREA	TYPE	WIDTH	AREA%
3.005	2599440	PB	.142	2.92281
3.645	230299	BP	.176	.25895
10.562	382524	BY	.223	.43011
10.915	267787	VY	.212	.30110
11.486	531935	VY	.252	.59811
11.760	929904	VY	.236	1.04558
12.171	1220998	VY	.214	1.37289
12.450	1459920	VY	.160	1.64154
12.699	1419949	VY	.156	1.59659
12.970	3183130	VY	.286	3.57912
13.283	3507410	VY	.212	3.94374
13.597	4185613	VY	.215	4.70631
13.815	4232317	VY	.227	4.75882
14.102	2137314	VY	.151	2.40320
14.306	4147018	VY	.236	4.66291
14.550	6666371	VY	.277	7.49568
14.823	3004662	VY	.148	3.37845
14.992	2797214	VY	.136	3.14519
15.130	3150136	VY	.155	3.54202
15.545	9878656	VY	.369	11.10758
15.755	4424163	VY	.215	4.97453
15.993	2818850	VY	.140	3.16952
16.143	3525912	VY	.161	3.96454
16.421	10651360	VY	.450	11.97640
17.295	6047091	VY	.402	6.79936
17.709	2245216	VY	.248	2.52452
17.987	1980492	VY	.316	2.22687
18.606	1113953	VY	.227	1.25253



February 17, 1988

O.H. Materials  
 Attn: Dennis Parfitt  
 3900 Industrial Blvd.  
 West Sacramento, CA 95691

SAMPLE NUMBER: 8-0778  
 Date collected: 02-09-88  
 Date in lab: 02-09-88  
 Collected by: Dennis Parfitt, OHM  
 Matrix: Liquid  
 CLIENT ID: #2, GWS-1, GROUND WATER SAMPLE, EMERYVILLE, CA, GROW GROUP, #5679

EPA Method 624 Purgeable Organics

	<u>Result (ug/L)</u>	<u>Detection Limit (ug/L)</u>
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	720	100
Trichlorofluoromethane	ND	100
1,1-Dichloroethene	ND	100
1,1-Dichloroethane	ND	100
trans-1,2-dichloroethene	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-trichloroethane	ND	100
Carbon Tetrachloride	ND	100
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
trans-1,3-Dichloropropene	ND	100
Trichloroethene	ND	100
Dibromochloromethane	ND	100
1,1,2-Trichloroethane	ND	100
cis-1,3-dichloropropene	ND	100
2-Chloroethylvinyl ether	ND	100
Bromoform	ND	100
1,1,2,2,-Tetrachloroethane	ND	100
Tetrachloroethene	ND	100
Chlorobenzene	ND	100
1,3-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
Benzene	ND	100
Toluene	ND	100
Ethyl Benzene	ND	100
Xylene	ND	100

These detection limits are 50 times higher than usual due to matrix interferences.  
 ND = None Detected

*Cheryl A. Smith*  
 Analytical Director

jmt



February 17, 1988

O.H. Materials  
Attn: Dennis Parfitt  
3900 Industrial Blvd.  
West Sacramento, CA 95691

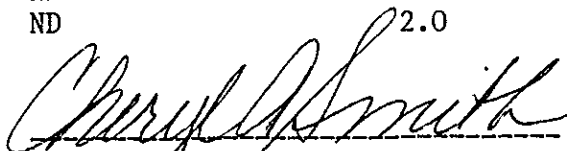
SAMPLE NUMBER: 8-0776  
Date collected: 02-09-88  
Date in lab: 02-09-88  
Collected by: Dennis Parfitt, OHM  
Matrix: Liquid  
CLIENT ID: #1, TB, TRIP BLANK, EMERYVILLE, CA, GROW GROUP, #5679

EPA Method 624 Purgeable Organics

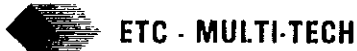
	<u>Result (ug/L)</u>	<u>Detection Limit (ug/L)</u>
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	2.0
Trichlorofluoromethane	ND	2.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	2.0
trans-1,2-dichloroethene	ND	2.0
Chloroform	ND	2.0
1,2-Dichloroethane	ND	2.0
1,1,1-trichloroethane	ND	2.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	2.0
1,2-Dichloropropane	ND	2.0
trans-1,3-Dichloropropene	ND	2.0
Trichloroethene	ND	2.0
Dibromochloromethane	ND	2.0
1,1,2-Trichloroethane	ND	2.0
cis-1,3-dichloropropene	ND	2.0
2-Chloroethylvinyl ether	ND	2.0
Bromoform	ND	2.0
1,1,2,2,-Tetrachloroethane	ND	2.0
Tetrachloroethene	ND	2.0
Chlorobenzene	ND	2.0
1,3-Dichlorobenzene	ND	2.0
1,2-Dichlorobenzene	ND	2.0
1,4-Dichlorobenzene	ND	2.0
Benzene	ND	2.0
Toluene	ND	2.0
Ethyl Benzene	ND	2.0
Xylene	ND	2.0

ND = None Detected

jmt

  
Analytical Director





February 17, 1988

O.H. Materials  
Attn: Dennis Parfitt  
3900 Industrial Blvd.  
West Sacramento, CA 95691

SAMPLE NUMBER: 8-0777  
Date collected: 02-09-88  
Date in lab: 02-09-88  
Collected by: Dennis Parfitt, OHM  
Matrix: Liquid  
CLIENT ID: #2, TC, TANK CONTENTS, EMERYVILLE, CA, GROW GROUP, #5679

EPA Method 624 Purgeable Organics

	<u>Result (ug/L)</u>	<u>Detection Limit (ug/L)</u>
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	2100	100
Trichlorofluoromethane	ND	100
1,1-Dichloroethene	ND	100
1,1-Dichloroethane	ND	100
trans-1,2-dichloroethene	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-trichloroethane	ND	100
Carbon Tetrachloride	ND	100
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
trans-1,3-Dichloropropene	ND	100
Trichloroethene	ND	100
Dibromochloromethane	ND	100
1,1,2-Trichloroethane	ND	100
cis-1,3-dichloropropene	ND	100
2-Chloroethylvinyl ether	ND	100
Bromoform	ND	100
1,1,2,2,-Tetrachloroethane	ND	100
Tetrachloroethene	ND	100
Chlorobenzene	ND	100
1,3-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
Benzene	ND	100
Toluene	ND	100
Ethyl Benzene	ND	100
Xylene	2400	100

These detection limits are 50 times higher than usual due to matrix interferences.  
ND = None Detected

Analytical Director

jmt



O.H. Materials Corp.  
16406 U.S. Route 224 East  
Findlay, Ohio 45839-0551  
419-423-3526

### CHAIN-OF-CUSTODY RECORD

No 32033

PROJECT LOCATION		NAME OF CLIENT		PROJECT TELEPHONE NO	PROJECT NUMBER							
Emryville CA		Grow Group			5679							
ITEM NUMBER	SAMPLE NUMBER	NUMBER & SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER & CHECK								
				1	2	3	4	5	6	7		
1	TB	3-40 ml	Trip Blank 2-9-88 1115 DP									#80776
2	TC	2-40 ml	Tank contents 2-9-88 1200 DP (suspect)									#80777
3	GWS-1	6-40 ml	Ground Water Sample 2-9-88 1235 DP									#8-017-8

Person Responsible for sample	Affiliation	Date	Time	TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
Dennis Parfitt	OHM	2/9/88	1425	1	1,2,3	D. Parfitt	D. Moore	2/9/88	1600
Purpose of analysis (use back of front sheet if necessary)									
TPHC - light fraction									
EPA 624									
* CALL: DENNIS G. PARFITT WITH RESULTS									

JCE NO. 5679	PROJECT Grow Group		LOCATION Emeryville, California	
DRILLING CONTRACTOR OHM		DRILLING EQUIPMENT Mobildrill B-24		
HYDROGEOLOGIST Dennis Parfitt		DRILLER Rod Grenier		
DATE START/TIME 02/09/88 0945	DATE FINISH/TIME 02/09/88 1200	SURFACE ELEVATION		TOTAL DEPTH 20 feet
WELL CASING N/A	SCREEN TYPE N/A	LENGTH		SLOT
GROUND WATER				
DATE	TIME	DEPTH	WEATHER	TYPE
February 9	1300	13.2'		DIAMETER
				HAMMER WT.
				FALL
REMARKS				

BORE HOLE LOG						
DEPTH	SAMPLE NUMBER	BLOW COUNT PER 6'	RECOVERY	LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
-				Concrete sidewalk		
1--				CH- Clay, dark brown (2.5YR N 3/0), moderately plastic, moist		
2--						
3--						
4--						
5--						
6--				CH- Clay, very dark grey (7.5YR N 3/0) with 10% grey mottles (7.5YR N 5/0) 1 to 2% coarse angular sand and p-gravel to 1 centimeter, highly plastic, moist		
7--						
8--						
9--				CH- Clay, grey (5Y 5/1), 5 to 10% silt, slightly moist		
10--						
11--						
12--						

JOB NO. 5679

BORE HOLE NO. TW-1

PROJECT Grow Group

LOCATION Emeryville, California

BORE HOLE LOG

DEPTH	SAMPLE NUMBER	BLOW COUNT PER 6'	RECOVERY	LITHOLOGIC DESCRIPTION	REMARKS	GRAPHIC LOG
-				As above, olive grey (5Y 5/2), increasing gravel content (5%), gravel to 3 centimeters. Moderate "paint thinner" odor		
13--					First water	
14--						
15--						
16--				As above, increasing silt content (30%)		
17--						
18--						
19--				CH/MH- Silty clay-clayey silt, olive grey (5Y 5/2), moderate plasticity, moist		
20--				Total Depth: 20 feet		
21--				Boring backfilled with: sand 20 to 15.5 feet; Sand/cement slurry 15.5 to 9.6 feet; Cuttings 9.6 to 0.3 feet		
22--						
23--						
24--						
25--						
26--						
27--						
28--						
29--						