May 30, 1997

MONITORING WELL INSTALLATION
AND
QUARTERLY GROUNDWATER MONITORING
REPORT

First Quarter, 1997

5/30/97

1075 40th Street
Oakland, CA 94608

Project No. 1540

Prepared For

Fidelity Roof Co.
1075 40th Street
Oakland, CA 94608

Prepared By

All Environmental, Inc.
3364 Mt. Diablo Boulevard
Lafayette, CA 94583
(800) 801-3224

AEI

ALL ENVIRONMENTAL, INC.
Environmental Engineering & Construction

May 30, 1997

Mr. Monte Upshaw
Fidelity Roof Co.
1075 40th Street
Oakland, CA 94608

Subject: **Monitoring Well Installation and Quarterly Groundwater Monitoring Report**
1075 40th Street
Oakland, CA 94608
Project No. 1540

Dear Mr. Upshaw:

We are enclosing two copies of the Monitoring Well Installation and Quarterly Groundwater Monitoring Report for the property at the above referenced address.

If you have any questions or comments regarding the findings presented in this report, please contact me at (510) 283-6000.

Sincerely,
ALL ENVIRONMENTAL, INC.

Bryan Campbell
Project Geologist

cc: Ms. Amy Leech, Alameda County Health Care Services Agency,
1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Mr. Wyman Hong, Zone 7 Water Agency
5997 Parkside Drive, Pleasanton, CA 94588-5127

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF APPENDICES

AEI

1.0 INTRODUCTION

All Environmental, Inc. (AEI) has prepared this report on behalf of the Fidelity Roof Company of Oakland, in response to their request for a soil and groundwater investigation at 1075 40th Street in Oakland, California (Figure 1: Site Location Map). The investigation involved the advancement of three soil borings at the site and conversion of the borings to groundwater monitoring wells on March 6, 1997. The wells were developed on March 10, 1997 and sampled on March 19, 1997. The investigation was initiated by the property owner in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA). The investigation was conducted to assess petroleum hydrocarbon concentrations found present in the groundwater during a Phase II Subsurface Investigation conducted in September, 1996.

2.0 SITE DESCRIPTION AND BACKGROUND

The site is located in a commercial zone at 1075 40th Street in Oakland, California, and currently supports the operation of Fidelity Roof Company, a roofing company. The topography of the site slopes gently to the south.

On December 19, 1995, Tank Protect Engineering removed one (1) 1,000 gallon underground storage tank (UST) and one (1) 500 gallon gasoline UST from the southeast corner of the property. The removal of the tanks produced a single excavation. The excavated soil was stockpiled north of the excavation. Three discrete soil samples were collected from beneath the USTs. Analysis of the samples indicated that soil beneath the 1,000 gallon UST was impacted with minor concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE). A single soil sample collected from beneath the 500 gallon UST indicated 100 mg/kg TPH as gasoline and 96 mg/kg TPH as diesel present. BTEX was present at concentrations of 2.0 mg/kg, 0.26 mg/kg, 1.9 mg/kg and 8.0 mg/kg, respectively. MTBE was not present above the detection limit of 0.30 mg/kg.

Four discrete soil samples were collected from the excavated soil. The samples were analyzed as one composite sample. TPH as gasoline and TPH as diesel were present within the representative sample at concentrations of 580 mg/kg and 120 mg/kg, respectively. BTEX concentrations were 2.3 mg/kg, 11 mg/kg, 6.8 mg/kg and 47 mg/kg, respectively. MTBE was not detected within the composite stockpile soil sample above the detection limit.

AEI issued a workplan on August 28, 1996 to the Alameda County Health Care Services Agency (ACHCSA) designed to define the extent and magnitude of petroleum hydrocarbon

contamination in the vicinity of the former USTs. On September 11, 1996, Ms. Susan Hugo of the ACHCSA approved the workplan.

On September 12, 1996, AEI advanced four soil borings in the vicinity of the former UST excavation (Ref. - Phase II Soil and Groundwater Investigation, dated October 7, 1996). Soil samples were collected from all of the borings and groundwater samples were collected from two of the borings. Analytical results from the subsurface investigation revealed significant levels of gasoline and diesel present in soil to the south and west of the open excavation. The soil contamination was believed to extend beneath the existing pump island.

Based upon information obtained during the Phase II Subsurface Investigation, AEI recommended additional excavation of soil from south of the current excavation. In addition, the excavation of contaminated soil from beneath and in the vicinity of the pump island was recommended. Moderate concentrations of petroleum hydrocarbons remain present in the soil to the east of the excavation, however the removal of additional soil could potentially undermine the existing building. Concentrations present in the soil north of the excavation do not warrant the removal of additional soil.

During the Phase II Subsurface Investigation, AEI collected soil samples from the stockpiled soil in order to determine the soil's suitability as backfill. AEI collected four soil samples from the soil. The samples were combined by the laboratory into one composite sample for analysis. Analysis of the samples indicated the presence of concentrations of 3.8 mg/kg TPH as gasoline, 28 mg/kg TPH as diesel and minor concentrations of BTEX. Approval was obtained from Ms. Hugo of the ACHCSA to reuse the stockpiled soil as backfill material.

On October 25, 1996, AEI extended the excavation to the south and west (Ref. - Excavation and Disposal of Contaminated Soil Report, dated January 7, 1997). The contaminated soil was stockpiled on-site and profiled for disposal into a Class III Landfill. The original excavation was extended laterally 7 feet to the south and 12 feet to west. Soil was removed to a depth of 9 feet below ground surface (bgs). The dispenser island and associated piping were removed. Groundwater was not encountered during the excavation activities. Four confirmation soil samples were collected from the excavation sidewalls. Analyses of the soil samples collected from the excavation sidewalls indicated that up to 150 mg/kg TPH as gasoline, 16 mg/kg benzene, and 300 mg/kg TPH as diesel remains within the western sidewall of the excavation. The excavated soil was profiled and accepted for disposal at the BFI Vasco Road Sanitary Landfill, in Livermore, California. On November 27 and November 29, 1996, approximately 235 tons of contaminated soil was loaded and transported to the landfill, under non-hazardous waste manifest, for disposal.

Results of the Phase II Subsurface Investigation indicated groundwater impacted with maximum

concentrations of 5,500 µg/l TPH as gasoline, 340 µg/l benzene, and 2,100 µg/l TPH as diesel. Due to the high concentrations of petroleum hydrocarbons within the groundwater, the ACHCSA required further investigation into the extent and magnitude of the groundwater contaminant plume.

On March 6, 1997, AEI drilled three soil borings and converted them to groundwater monitoring wells. The wells were developed on March 10, 1997 and sampled on March 19, 1997. The following report describes the activities surrounding the well installations.

3.0 PERMITS

Prior to drilling, a work plan, dated February 24, 1997, was submitted to the ACHCSA by AEI. In a letter, dated February 28, 1997, Ms. Amy Leech, of the ACHCSA approved the workplan. Well construction permits were obtained from the Alameda County Flood Control and Water Conservation District, Zone 7 (Zone 7). The property owner and operator were notified of the drilling schedule. A copy of the Zone 7 permit to perform the soil borings and monitoring well installations is included in Appendix A.

4.0 GEOLOGY AND HYDROGEOLOGY

According to logs of the soil borings advanced by AEI, the near surface sediments beneath the site consist of mainly sandy clay with intermittent gravel up to 1/8" in diameter to a depth of at least 21 feet below ground surface (bgs). These sediments make up the water-bearing stratum.

Water level measurements made during the current groundwater monitoring and sampling episode on March 19, 1997, indicate that the static water ranges from between 7.59 to 8.25 feet bgs. Elevations of the tops of the well casings were surveyed relative to Mean Sea Level (MSL) by Logan Surveying on April 5, 1997. Refer to Appendix B for the Groundwater Monitoring Well Field Sampling Forms.

The water level measurements were collected in order to calculate the groundwater gradient and flow direction. **Based on these measurements, the groundwater flow is northwest at a gradient of 0.015 feet per foot.** The groundwater flow direction is depicted in Figure 2. Water elevations to date are summarized in the following table:

Table 1 - Water Level Measurements

Date: March 19, 1997	MW-1	MW-2	MW-3
Depth to Water (feet)	8.25	8.40	7.59
Depth of Well (feet)	21.00	21.00	21.00
Well Elevation (feet above MSL)	45.41	44.94	44.32
Groundwater Elevation (feet above MSL)	37.16	36.54	36.73

5.0 SOIL BORINGS

On March 6, 1997, three soil borings (BH-1, BH-2 and BH-3) were advanced at the site in the locations shown on Figure 2. BH-1 was advanced near the southern property boundary in the assumed up-gradient direction. BH-2 and BH-3 were advanced down-gradient from the former UST excavation. BH-1, BH-2 and BH-3 were then converted to groundwater monitoring wells MW-1, MW-2 and MW-3, respectively

A Mobile B-53 rotary drill with 6.25" I.D. by 10.5" O.D. hollow stem augers was used to drill the borings. Drilling proceeded to a depth of 21.0 feet during the advancement of each boring. Soil samples were collected at depths of 5, 10, 15, and 20 feet with a hammer-driven California Modified split spoon sampler. The sampler, containing two-inch diameter brass sample tubes, was advanced ahead of the auger tip by successive hammer blows. Boring logs were maintained during drilling by one of AEI's geologists using the Unified Soil Classification System. The logs are presented in Appendix B. Cuttings generated during drilling were stored on-site in 55 gallon drums for future off-site disposal.

6.0 WELL CONSTRUCTION

On March 6, 1997, soil borings BH-1, BH-2 and BH-3 were drilled and converted to groundwater monitoring wells, labeled MW-1, MW-2 and MW-3, respectively. The wells were constructed with 5 feet of 2" flush threaded blank Schedule 40 PVC blank casing, and 15 feet of .020" factory-slotted well screen that was installed through the hollow auger. The blank casing extends from 0.5 feet bgs to 6.0 feet bgs. The slotted casing extends from 6.0 feet bgs to meet the total depth of the borings, 21.0 feet bgs. The well screens were fitted with a flush-threaded bottom cap. No. 3 (2/16) Monterey sand was poured through the augers to form a sand pack from the bottom of the wells to 5.0 feet bgs. Approximately 1 foot of bentonite pellets were placed above the sand and hydrated with tap water. The remainder of the borings were filled to

about 0.5 feet below grade with neat cement grout. A flush mounted traffic rated well box was installed over the casing, and an expanding, locking water tight inner cap was placed on the casing top. Refer to the boring logs (Appendix B) for a visual description of the well construction.

7.0 SOIL SAMPLING

Soil samples were collected for chemical analyses to assess the extent of any contamination of soil and/or groundwater resulting from unauthorized releases of petroleum hydrocarbons associated with underground fuel tanks that were formerly located at the site.

The drill rig and augers were steam cleaned prior to drilling and on-site before departure. Soil sampling equipment was decontaminated prior to each use with a TSP solution and rinsed with tap water in plastic buckets. Soil samples were sealed using Teflon tape and plastic caps.

Undisturbed soil samples were collected at depths of 5, 10, 15, 20 feet bgs from each boring during drilling and labeled according to their depth. Since groundwater was encountered at approximately 9 feet bgs during drilling, only the soil samples collected at the soil/groundwater interface, those collected at 10 feet bgs, were submitted for chemical analyses. The samples were labeled and placed on ice for transportation under chain of custody protocol for analysis to a state certified laboratory.

8.0 WELL DEVELOPMENT AND SAMPLING

The three wells were developed on March 10, 1997. The wells were developed by pumping water into a 55 gallon drum until the water appeared to be reasonably clear with a minimum of 10 well volumes removed or until the wells were pumped dry. The pumped water was turbid at first, but became clear by the end of the well development and all wells were pumped dry. The water level returned to a static level in approximately 120 minutes. The Groundwater Well Sampling Field Logs are included in Appendix B.

Groundwater samples were collected from the wells on March 19, 1996. Groundwater was checked for sheen and free product prior to purging and sampling. No sheen or free product was observed. Depth to groundwater was measured prior to purging the wells. The wells were purged by pumping water into a 55 gallon drum until the groundwater temperature, pH, and conductivity stabilized. The groundwater samples were collected using clean disposable bailers. Water was poured from the bailers into amber liter bottles, 40 ml VOA vials and 1 liter bottles and capped so that no head space or visible air bubbles within the sample containers. The samples were labeled and placed on ice for transportation under chain of custody protocol for

analysis to a state certified laboratory.

9.0 ANALYTICAL RESULTS OF SAMPLES

Soil and groundwater samples were analyzed at McCampbell Analytical, Inc. of Pacheco, California (State Certification No. 1644). One soil sample from each boring and groundwater samples from each well were submitted for chemical analyses for TPH as gasoline (EPA Method 5030/8015), TPH as diesel (EPA Method 3510/8015), methyl tertiary butyl ether (MTBE) (EPA Method 8020/602), and benzene, toluene, ethyl benzene, and total xylenes (BTEX) (EPA Method 8020/602).

Refer to the following Table 2 for a summary of the soil sample analyses and to Table 3 for a summary of the groundwater sample analyses.

Table 2 - Soil Sample Analyses

Sample Identification (Depth)	Date	TPHg mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Total Xylenes mg/kg	TPHd mg/kg
BH-1, (10')	3/6/97	7.7	<0.05	0.028	0.021	0.060	0.058	2.5
BH-2, (10')	3/6/97	7.7	<0.05	<0.05	<0.05	<0.05	<0.05	18
BH-3, (10')	3/6/97	110	<0.9	1.1	0.36	1.9	7.5	6.8

Total Petroleum Hydrocarbons as gasoline = TPHg
Total Petroleum Hydrocarbons as diesel = TPHd
methyl tertiary butyl ether = MTBE
mg/kg = milligrams per kilogram (ppm)

AEI

Table 3 - Groundwater Sample Analyses

Sample Identification	Date	TPHg µg/l	MTBE µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Total Xylenes µg/l	TPHd µg/l
MW-1	3/19/97	<50	23	<0.5	<0.5	<0.5	<0.5	<50
MW-2	3/19/97	<50	65	<0.5	<0.5	<0.5	<0.5	<50
MW-3	3/19/97	26,000	230	3000	530	340	2300	5000

Total Petroleum Hydrocarbons as gasoline = TPHg
Total Petroleum Hydrocarbons as diesel = TPHd
methyl tertiary butyl ether = MTBE
µg/l = micrograms per liter (ppb)

Laboratory results and chain of custody documentation are included in Appendix C.

10.0 SUMMARY AND RECOMMENDATIONS

AEI installed three groundwater monitoring wells to assess soil and groundwater contamination and to determine the groundwater gradient at 1075 40th Street in Oakland, California. The subsurface investigation included logging boreholes under the supervision of a professional geologist, soil sampling and analyses, well development, and groundwater sampling and analyses.

Significant concentrations of petroleum hydrocarbons are present in the groundwater west of the former UST excavation. Concentrations of TPH as gasoline in well MW-3 were recorded in concentrations of 26,000 µg/l TPH as gasoline, 5,000 µg/l TPH as diesel, and 3,000 µg/l benzene. Minor concentrations of TPH as gasoline, TPH as diesel, MTBE, and BTEX were found in samples from wells MW-1 and MW-2. Analysis of soil samples collected during the installation of the wells indicated only minor concentrations of petroleum hydrocarbons present.

AEI recommends the quarterly groundwater monitoring of the three on-site wells for a period of at least one year. The next groundwater monitoring and sampling episode should be conducted in June, 1996.

AEI

11.0 REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by All Environmental, Inc., including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and construction field which existed at the time and location of the work.

All Environmental, Inc.

Bryan Campbell
Project Manager

Joseph P. Derhake, PE, CAC
Senior Author

AEI

N

FROM:
ALAMEDA/CONTRA
COSTA COUNTIES
THOMAS BROS. MAPS
1997 EDITION

ALL ENVIRONMENTAL, INC.

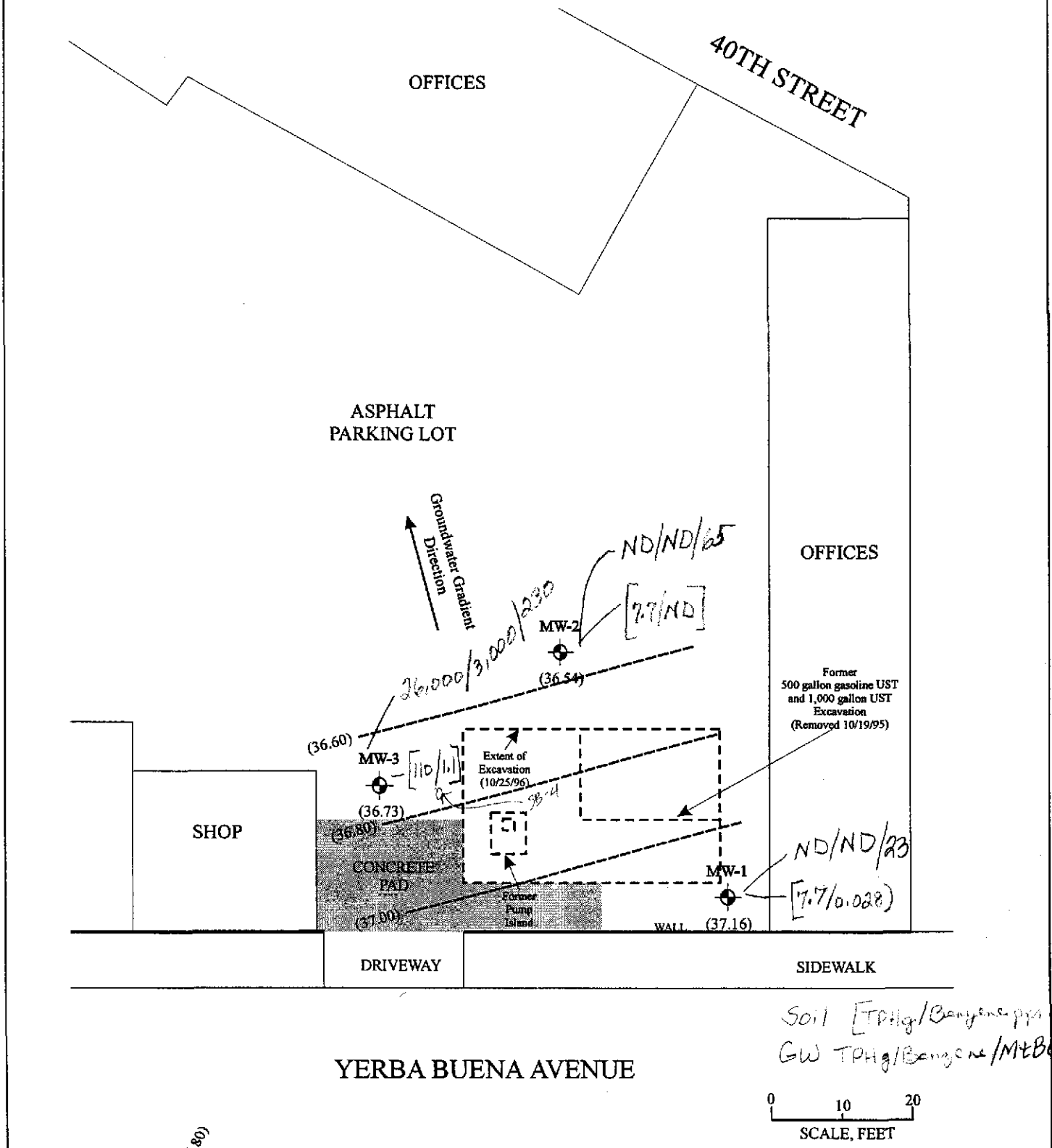
3364 MT. DIABLO BOULEVARD, LAFAYETTE, CA

SCALE: 1":2400' | DATE:

SITE LOCATION MAP

1075 40TH STREET
OAKLAND, CALIFORNIA

DRAWING NUMBER:
FIGURE 1



ALL ENVIRONMENTAL, INC.

3364 MT. DIABLO BOULEVARD, LAFAYETTE, CA

SCALE: 1"=20'

DATE:

GROUNDWATER GRADIENT MAP

1075 40TH STREET
OAKLAND, CALIFORNIA

DRAWING NUMBER:
FIGURE 2

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Fidelity Roof Company
1075 40Th Street
Oakland, CA 94608

CLIENT
Name Fidelity Roof Company / Monte Upsham
Address 1075 40Th Street Voice (510) 547-1330
City Oakland Zip 94608

APPLICANT
Name All Environmental, Inc.
Bryan Campbell Fax (510)283-6121
Address 3364 Mt. Diablo Bl Voice (510)283-6000
City Lafayette Zip 94549

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	___	General	___
Water Supply	___	Contamination	___
Monitoring	X	Well Destruction	___

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other ___
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other ___

DRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter	4	in.	Maximum		
Casing Diameter	2	in.	Depth	20	ft.
Surface Seal Depth	2	ft.	Number	3	

GEOTECHNICAL PROJECTS

Number of Borings	___		Maximum		
Hole Diameter	___	in.	Depth	___	ft.

ESTIMATED STARTING DATE 3/6/97
ESTIMATED COMPLETION DATE 3/6/97

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] Date 3/4/97

FOR OFFICE USE

PERMIT NUMBER 97158
LOCATION NUMBER ___

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

(B) WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 12 Mar 97
Wyman Hong

91962

PROJECT: Fidelity Roof Co. # 1540	**LOG OF WELL NUMBER:** MW-1
BORING LOC.: REFER TO SITE PLAN	ELEVATION, TOC: 45.41'
DRILLING CONTRACTOR: GREGG DRILLING	START DATE: 3/6/97 — END DATE: 3/6/97
DRILLING METHOD: HOLLOW STEM AUGER	TOTAL DEPTH: 21' — SCREEN INT: 6'-21'
DRILLING EQUIPMENT: MOBILE B-53	DEPTH TO WATER: 9' — CASING: 2" PVC
SAMPLING METHOD: 2" DRIVE SAMPLER	LOGGED BY: BC
HAMMER WEIGHT and FALL: 140 lb, 30"	RESPONSIBLE PROFESSIONAL: JPD

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES: SAMPLE NO.	SAMPLES: INTERVAL	SAMPLES: BLOW COUNTS	WELL CONSTRUCTION DETAILS
0	AB	0.0 - 0.6; Asphalt, 3" Aggregate Base.				Universal Well Cover
1						Locking Wing Nut
2						
3						Neat Cement Grout
4					6	
					12	
5	CL	0.6 - 21.0: Sandy Gravelly Clay; dark greenish gray with low plasticity; gravel up to 1/8"; slight hydrocarbon odor; 30 ppm.	5'		18	Blank SCH 40 PVC (2")
6						Bentonite
7						
8						
9		▼			7	
					14	
10	CL	0.6 - 21.0: Sandy Clay (cont.): moderate yellowish brown with high plasticity; grayish olive mottling; strong hydrocarbon odor; 700 ppm.	10'		14	No. 3 Monterey Sand
11						
12						.020" Slotted Well Screen
13						
14					5	

PROJECT: Fidelity Roof Co. #1540

LOG OF BOREHOLE: MW-1

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES: SAMPLE NO.	SAMPLES: INTERVAL	SAMPLES: BLOW COUNTS	WELL CONSTRUCTION DETAILS
15	CL	0.6 - 21.0: Sandy Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 30 ppm.	15'		7 8	
16						
17						
18						
19					20 25	
20	CL	0.6 - 21.0: Sandy Gravelly Clay (cont.): moderate yellowish brown with high plasticity; grayish olive mottling; slight hydrocarbon odor; 0 ppm.	20'		40	End Cap
21		Terminated at 21.0'				
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

PROJECT: Fidelity Roof Co. # 1540	**LOG OF WELL NUMBER:** MW-2
BORING LOC.: REFER TO SITE PLAN	ELEVATION, TOC: 44.94'
DRILLING CONTRACTOR: GREGG DRILLING	START DATE: 3/6/97 — END DATE: 3/6/97
DRILLING METHOD: HOLLOW STEM AUGER	TOTAL DEPTH: 21' — SCREEN INT: 6'-21'
DRILLING EQUIPMENT: MOBILE B-53	DEPTH TO WATER: 9' — CASING: 2" PVC
SAMPLING METHOD: 2" DRIVE SAMPLER	LOGGED BY: BC
HAMMER WEIGHT and FALL: 140 lb, 30"	RESPONSIBLE PROFESSIONAL: JPD

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES: SAMPLE NO.	SAMPLES: INTERVAL	SAMPLES: BLOW COUNTS
0	AB	0.0 - 0.6; Asphalt, 3" Aggregate Base.			
5	CL	0.6 - 21.0: Sandy Gravelly Clay; dark greenish gray with low plasticity; gravel up to 1/8"; slight hydrocarbon odor; 30 ppm.	5'		6 8 18
10	CL	0.6 - 21.0: Sandy Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 40 ppm.	10'		6 10 14
14					6

▼ 9

WELL CONSTRUCTION DETAILS

- Universal Well Cover
- Locking Wing Nut
- Neat Cement Grout
- Blank SCH 40 PVC (2")
- Bentonite
- No. 3 Monterey Sand
- .020" Slotted Well Screen

PROJECT: Fidelity Roof Co. #1540 | **LOG OF BOREHOLE:** MW-2

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES: SAMPLE NO.	SAMPLES: INTERVAL	SAMPLES: BLOW COUNTS	WELL CONSTRUCTION DETAILS
15	CL	0.6 - 21.0: Sandy Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 40 ppm.			12	
			15'		15	
16						
17						
18						
19					10	
					18	
20	CL	0.6 - 21.0: Sandy Gravelly Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 20 ppm.	20'		25	End Cap
21		Terminated at 21.0'				
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

PROJECT: Fidelity Roof Co. # 1540	**LOG OF WELL NUMBER:** MW-3
BORING LOC.: REFER TO SITE PLAN	ELEVATION, TOC: 44.32'
DRILLING CONTRACTOR: GREGG DRILLING	START DATE: 3/6/97 / END DATE: 3/6/97
DRILLING METHOD: HOLLOW STEM AUGER	TOTAL DEPTH: 21' / SCREEN INT: 6'-21'
DRILLING EQUIPMENT: MOBILE B-53	DEPTH TO WATER: 9' / CASING: 2" PVC
SAMPLING METHOD: 2" DRIVE SAMPLER	LOGGED BY: BC
HAMMER WEIGHT and FALL: 140 lb, 30"	RESPONSIBLE PROFESSIONAL: JPD

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES: SAMPLE NO.	SAMPLES: INTERVAL	SAMPLES: BLOW COUNTS	WELL CONSTRUCTION DETAILS
0	AB	0.0 - 0.6; Asphalt, 3" Aggregate Base.				Universal Well Cover
1						Locking Wing Nut
2						Neat Cement Grout
3						
4					6	
					12	Blank SCH 40 PVC (2")
5	CL	0.6 - 21.0: Gravelly Clay; grayish brown with low plasticity; gravel up to 1/8"; slight hydrocarbon odor; 10 ppm.	5'		20	Bentonite
6						
7						
8						
9		▼			8	
					16	
10	CL	0.6 - 21.0: Sandy Gravelly Clay (cont.): grayish brown with low plasticity; grayish olive mottling; strong hydrocarbon odor; >1,000 ppm.	10'		16	No. 3 Monterey Sand
11						
12						.020" Slotted Well Screen
13						
14					6	

PROJECT: Fidelity Roof Co. #1540

LOG OF BOREHOLE: MW-3

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES: SAMPLE NO.	SAMPLES: INTERVAL	SAMPLES: BLOW COUNTS	WELL CONSTRUCTION DETAILS
15	CL	0.6 - 21.0: Sandy Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 84 ppm.			8	
			15'		10	
16						
17						
18						
19					8	
					15	
20	CL	0.6 - 21.0: Sandy Gravelly Clay (cont.): moderate yellowish brown with low plasticity; grayish olive mottling; slight hydrocarbon odor; 8 ppm.	20'		20	
21		Terminated at 21.0'				End Cap
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

ALL ENVIRONMENTAL INC. - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

Project Name: Fidelity Roof Co.	Date of Sampling: 3/19/97
Job Number: 1540	Name of Sampler: Dusty Roy
Project Address: 1075 40th Street, Oakland, CA 94608	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	
Well Cap & Lock -- OK/Replace	
Elevation of Top of Casing	45.41
Depth of Well	
Depth to Water	8.25
Water Elevation	37.16
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	9
Appearance of Purge Water	Clear

GROUNDWATER SAMPLES

Number of Samples/Container Size	2 - 40 ml VOAs, 1 - 1 liter bottle

Time	Vol Remvd (gal)	Temp (deg F)	pH	Cond (mS)	Comments
9:15	1	69.2	7.03	1418	
9:18	2	66.1	7.05	1362	
9:21	3	65.8	7.07	1346	
9:24	5	65.8	7.05	1339	
9:27	7	65.8	7.05	1338	
9:30	9	65.8	7.06	1336	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

TD - Total Depth of Well
DTW - Depth To Water

ALL ENVIRONMENTAL INC. - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name: Fidelity Roof Co.	Date of Sampling: 3/19/97
Job Number: 1540	Name of Sampler: Dusty Roy
Project Address: 1075 40th Street, Oakland, CA 94608	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	
Well Cap & Lock -- OK/Replace	
Elevation of Top of Casing	44.94
Depth of Well	
Depth to Water	8.40
Water Elevation	36.54
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	9
Appearance of Purge Water	Clear

GROUNDWATER SAMPLES

Number of Samples/Container Size	2 - 40 ml VOAs, 1 - 1 liter bottle

Time	Vol Remvd (gal)	Temp (deg F)	pH	Cond (mS)	Comments
8:45	1	69.1	7.13	1427	
8:48	2	68.5	7.13	1396	
8:51	3	68.2	7.13	1401	
8:54	5	68.2	7.13	1401	
8:57	7	67.9	7.13	1398	
9:00	9	68.0	7.13	1400	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

TD - Total Depth of Well
DTW - Depth To Water

ALL ENVIRONMENTAL INC. - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name: Fidelity Roof Co.	Date of Sampling: 3/19/97
Job Number: 1540	Name of Sampler: Dusty Roy
Project Address: 1075 40th Street, Oakland, CA 94608	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	
Well Cap & Lock -- OK/Replace	
Elevation of Top of Casing	44.32
Depth of Well	
Depth to Water	7.59
Water Elevation	36.73
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	9
Appearance of Purge Water	Clear

GROUNDWATER SAMPLES

Number of Samples/Container Size	2 - 40 ml VOAs, 1 - 1 liter bottle

Time	Vol Remvd (gal)	Temp (deg F)	pH	Cond (mS)	Comments
8:15	1	68.5	6.67	2450	
8:18	2	67.9	6.68	2450	
8:21	3	68.2	6.68	2430	
8:24	5	68.2	6.68	2430	
8:27	7	68.0	6.69	2430	
8:30	9	68.2	6.70	2430	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

TD - Total Depth of Well
DTW - Depth To Water

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

All Environmental, Inc. 3364 Mt. Diablo Blvd. Lafayette, CA 94549	Client Project ID: # 1540; Fidelity Roof	Date Sampled: 03/19/97
		Date Received: 03/21/97
	Client Contact: Bryan Campbell	Date Extracted: 03/24/97
	Client P.O:	Date Analyzed: 03/24/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
74590	MW-1	W	ND	23	ND	ND	ND	ND	105
74591	MW-2	W	ND	65	ND	ND	ND	ND	105
74592	MW-3	W	26,000,a	230	3000	530	340	2300	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

All Environmental, Inc. 3364 Mt. Diablo Blvd. Lafayette, CA 94549	Client Project ID: # 1540; Fidelity Roof	Date Sampled: 03/19/97
		Date Received: 03/21/97
	Client Contact: Bryan Campbell	Date Extracted: 03/21/97
	Client P.O:	Date Analyzed: 03/21/97

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
74590	MW-1	W	ND	101
74591	MW-2	W	ND	110
74592	MW-3	W	5000,d	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/21/97 Matrix: Water

Analyte	Concentration (mg/L) Sample (#74543)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	97.3	99.5	100.0	97.3	99.5	2.2
Benzene	0.0	9.6	9.8	10.0	96.0	98.0	2.1
Toluene	0.0	9.9	10.2	10.0	99.0	102.0	3.0
Ethyl Benzene	0.0	10.2	10.5	10.0	102.0	105.0	2.9
Xylenes	0.0	30.4	31.3	30.0	101.3	104.3	2.9
TPH (diesel)	0	139	143	150	93	95	2.6
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/24/97 Matrix: Water

Analyte	Concentration (mg/L) Sample (#74563)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	101.4	100.8	100.0	101.4	100.8	0.6
Benzene	0.0	9.9	9.8	10.0	99.0	98.0	1.0
Toluene	0.0	10.3	10.2	10.0	103.0	102.0	1.0
Ethyl Benzene	0.0	10.4	10.4	10.0	104.0	104.0	0.0
Xylenes	0.0	31.1	31.3	30.0	103.7	104.3	0.6
TPH (diesel)	0	139	139	150	93	92	0.2
TRPH (oil & grease)	0	24800	24900	23700	105	105	0.4

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

8295 SAMPLE 25

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553
(510) 798-1620 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

REPORT TO: Bryan Campbell BILL TO:

COMPANY: ALL ENVIRONMENTAL INC
3364 MT DIABLO BLVD
LAFAYETTE CA 94583

TELE: 510-283-6000 FAX #: 510 283 6121

PROJECT NUMBER: 1540 PROJECT NAME: FIDELITY ROOF

PROJECT LOCATION: OAKLAND SAMPLER SIGNATURE: Dusty Roy

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	METHOD PRESERVED: HCL	HNO_3	OTHER	BTEX & TPH as Gasoline (602/8020 & 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	COMMENTS
MW-1		3/19/97		3		X								X	X														74590
MW-2		3/19/97		3		X								X	X														74591
MW-3		3/19/97		3		X								X	X														74592

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Dusty Roy	3/21/97	9:20AM	Jude Rivera
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:

REMARKS:

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓

PRESERVATIVE APPROPRIATE ✓
CONTAINERS ✓

VOAS ✓ | O&G | METALS | OTHER

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

All Environmental, Inc. 3364 Mt. Diablo Blvd. Lafayette, CA 94549	Client Project ID: # 1540; Fidelity Roof Co.	Date Sampled: 03/06/97
		Date Received: 03/07/97
	Client Contact: Jennifer Anderson	Date Extracted: 03/07-03/10/97
	Client P.O:	Date Analyzed: 03/07-03/10/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California *RWQCB (SF Bay Region)* method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
74150	BH-3, 10'	S	110,a	ND< 0.9	1.1	0.36	1.9	7.5	97
74154	BH-1, 10'	S	7.7,j	ND	0.028	0.021	0.060	0.058	101
74158	BH-2, 10'	S	ND	ND	ND	ND	ND	ND	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

All Environmental, Inc. 3364 Mt. Diablo Blvd. Lafayette, CA 94549	Client Project ID: # 1540; Fidelity Roof Co.	Date Sampled: 03/06/97
		Date Received: 03/07/97
	Client Contact: Jennifer Anderson	Date Extracted: 03/13/97
	Client P.O:	Date Analyzed: 03/14/97

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
74150	BH-3, 10'	S	6.8,d,b	100
74154	BH-1, 10'	S	2.5,d	99
74158	BH-2, 10'	S	18,g,b	107
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/07/97 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#68848)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	1.989	1.999	2.03	98	98	0.5
Benzene	0.000	0.194	0.196	0.2	97	98	1.0
Toluene	0.000	0.200	0.202	0.2	100	101	1.0
Ethylbenzene	0.000	0.206	0.210	0.2	103	105	1.9
Xylenes	0.000	0.618	0.628	0.6	103	105	1.6
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/10/97 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#68848)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	1.967	1.945	2.03	97	96	1.1
Benzene	0.000	0.196	0.190	0.2	98	95	3.1
Toluene	0.000	0.204	0.198	0.2	102	99	3.0
Ethylbenzene	0.000	0.208	0.200	0.2	104	100	3.9
Xylenes	0.000	0.622	0.590	0.6	104	98	5.3
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/13/97-03/14/97 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#68829)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TPH (diesel)	0	318	328	300	106	109	3.1
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

Chain of Custody

ALL ENVIRONMENTAL, INC.
3364 Mt. Diablo Boulevard
Lafayette, CA 94549
(510) 283-6000 FAX: (510) 283-6121

8211 AALE131

DATE: 3/6/97 PAGE: 1 OF: 1

AEI PROJECT MANAGER: Jennifer Anderson
PROJECT NAME: Fidelity Roof Co.
PROJECT NUMBER: 1540
SIGNATURE:
TOTAL # OF CONTAINERS: 12
RECD. GOOD COND./COLD:

ANALYSIS REQUEST

SAMPLE I.D.	DATE	TIME	MATRIX	TPH-Gasoline (EPA 5030.8015)	TPH-Gasoline (EPA 5030.8015) w/ BTEX and MTBE (EPA 602.8020)	TPH-Diesel (EPA 3510/3550.8015)	PURGEABLE AROMATICS BTEX and MTBE (EPA 602.8020)	TOTAL OIL & GREASE (EPA 5520 E&F)	TOTAL LEAD (AA) (EPA 7420)	VOLATILE ORGANIC COMPOUNDS (EPA 8240)	LUFT Metals (EPA 7130,7190,7420,7520,7950)	STLC CAM 17 (EPA 1310)		NUMBER OF CONTAINERS
BH-3, 5'	3/6/97	10:12am	Soil		Hold								74149	1
BH-3, 10'		10:25am			X	X							74150	1
BH-3, 15'		10:32am											74151	1
BH-3, 20'		10:44am			Hold								74152	1
BH-1, 5'		12:00											74153	1
BH-1, 10'		12:08			X	X							74154	1
BH-1, 15'		12:25											74155	1
BH-1, 20'		12:56			Hold								74156	1
BH-2, 5'		1:55											74157	1
BH-2, 10'		2:10			X	X							74158	1
BH-2, 15'		2:17			Hold								74159	1
BH-2, 20'		2:40											74160	1

VOAS | O&G | METALS | OTHER

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATIVE APPROPRIATE ✓
CONTAINERS ✓

ANALYTICAL LAB: Mccampbell
ADDRESS:
PHONE: ( ) FAX: ( )

INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: 1	RECEIVED BY: 1	RELINQUISHED BY: 2	RECEIVED BY: 2
Signature	Signature	Signature	Signature
Printed Name: Jennifer Anderson	Printed Name: JAMES McLEAN	Printed Name: JAMES McLEAN	Printed Name: Heidi Ricca
Company: AEI	Company: AERO	Company: AERO	Company: McCampbell
Time: 1130 Date: 3/7/97	Time: 1130 Date: 3-7-97	Time: 1230 Date: 3-7-97	Time: 1230 Date: 3/1/97