



ALCO
HAZMAT

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94 MAR -3 PM 3: 27

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February 28, 1994
Project No. 93110

Beck Roofing Company
21123 Meekland Avenue
Hayward, CA 94545

Attention: Ms. Mary Beck

Re: **Quarterly Monitoring Well Sampling Report**
1st Quarter, 1994 for 21123 Meekland Ave., Hayward, CA

Dear Ms. Beck,

This report discusses the sampling of monitoring wells at the above referenced site for the first quarter, 1994.

INTRODUCTION

This report covers groundwater monitoring at Beck Roofing Company, 21123 Meekland Avenue in Hayward, California (see Figure 1). Gen-Tech Environmental, Inc. (GTE) was retained to perform this initial sampling of the site monitoring wells. Three monitoring wells currently exist on-site.

FIELD AND LABORATORY METHODS

This site is currently occupied by Beck Roofing. The following table briefly describes the monitoring wells current status (see Table 1) below;

Table 1. Monitoring Wells Sampling

Well No.	Date Sampled	Well Depth (ft)	Depth to Water (ft)	Water Elev. (MSL ft)	Casing Damage	Floating Product
MW-1	-----	-----	-----	-----	Covered	---
MW-2	1/31/94	37.00	29.36	-----	None	None
MW-3	1/31/94	34.65	29.12	-----	None	None

The sampler purged well volumes (a calculation for the number of volumes was done for each well following sounding measurements) of groundwater from the well using the disposable bailer. The well was then allowed to re-charge. Between each well volume purge, conductivity, pH, and water temperature readings were obtained and noted on the **Groundwater Sampling Information Sheet** (see **Appendix B**). Once the stabilization of the readings were noted the sample was collected from the well. Purge water was stored on-site in drums. The well sampling information sheet containing data on temperature, conductivity, pH, depth to water, and well volumes purged can be found in **Appendix B**. The chain-of-custody and a the Laboratory Analysis Results can be found in **Appendix C**.

Once the well recovers to about 80% of the initial water level measurement, a new disposable bailer was used to obtain the groundwater sample which was placed into the appropriate, laboratory prepared sample containers leaving no headspace, and immediately placed on ice for shipment to Chromalab in San Ramon, California (a **State Certified Testing Lab**) under proper chain-of-custody documentation.

GROUNDWATER CONTOUR MAP AND GRADIENT

Groundwater contour map was not prepared since only two monitoring wells could be sampled. The regional groundwater flow direction is westerly-southwesterly.

LABORATORY FINDINGS

Two groundwater samples were analyzed using EPA Methods 5030, 8015, 602 and 8020 for Total Petroleum Hydrocarbons as Gasoline (**TPHG**), Benzene, Toluene, Ethylbenzene and Xylene (**BTEX**). The analytical results of the groundwater samples revealed the following (see **Table 2**);

Table 2. Groundwater Data

Well No.	Date Sampled	TPHG	Benzene	Toluene ug/l	Ethylben	Xylene
MW-1	not sampled					
MW-2	1/31/94	ND	ND	ND	ND	ND
MW-3	1/31/94	9,300	600	ND	210	300
BLANK		ND	ND	ND	ND	ND

ND - None detected

ug/l - micrograms per liter

The laboratory analytical reports are presented in **Appendix C**.

DISCUSSION

Only two wells were sampled since MW-1 was buried. Monitoring well MW-2 showed that the contaminants were not detected. Well MW-3 showed 9,300 ppb TPHG and 600 ppb Benzene. Since one well was covered, a groundwater contour map and gradient could not be prepared. The site gradient is assumed to be toward the west, or west-southwest.

MONITORING SCHEDULE

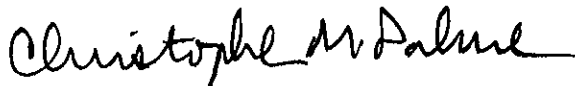
The continuation of the quarterly groundwater monitoring program is recommended for this site.

LIMITATIONS

This quarterly sampling and report was performed using recommended current guidance documents of the State and local agencies. The statements, conclusions, and recommendations are based on present site conditions. Conditional changes may occur through time by natural or manmade processes on this or adjacent properties. Future review and interpretations should consider regulatory changes that any have been enacted subsequent to preparation of this report. Gen Tech Environmental, Inc. is not responsible for laboratory errors, and no warranty or guarantee is implied therein.

If you have any questions, please call.

Sincerely,
Gen-Tech Environmental, Inc.



Christopher M. Palmer, C. E. G. 1262

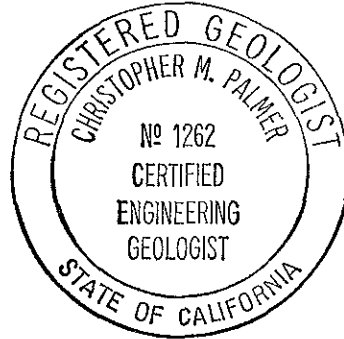
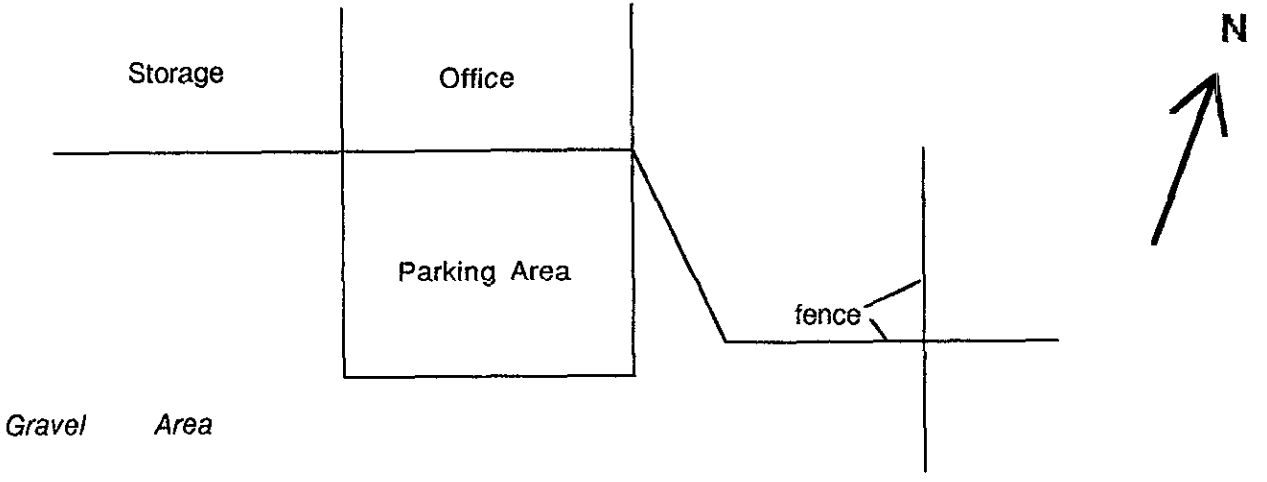
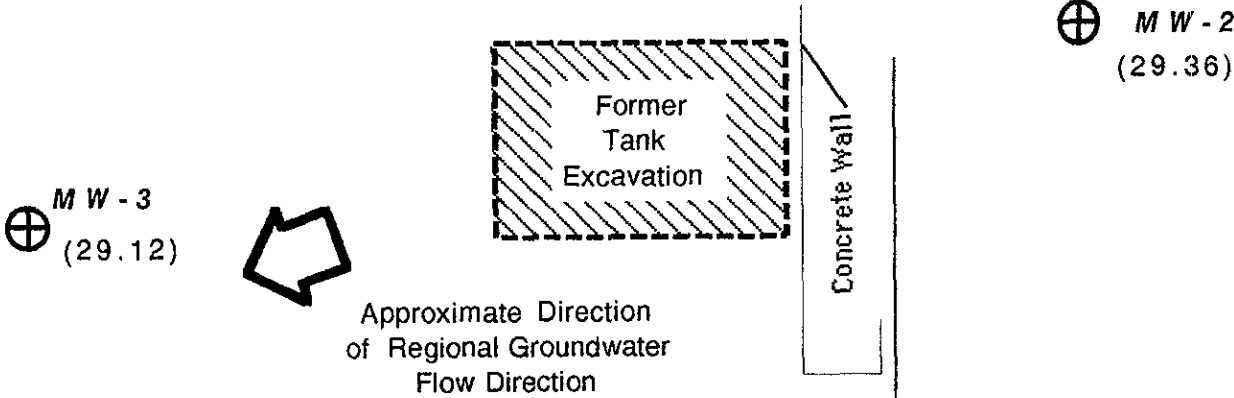


Figure 1. Monitoring Well Map

- Appendices: A. Gen-Tech Groundwater Sampling Information Sheets
B. Chemical Analytical Date and Chain-of-Custody Forms



Driveway



Parking

MW - 1
(covered with soil
no measurement)

⊕ Monitoring Well Location
(29.10) Depth to Groundwater,
Jan., 31, 1994

Base Map: Louis A Richardson
Consulting Engineering Geologist
Mountain View, CA, 05/91

Monitoring Well Map 21123 Meekland Ave. Hayward, CA	Project No. 93110 Scale: 1' = 20' Date: Feb., 1994 Figure 1
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Gen Tech Environmental, Inc.
San Jose, CA

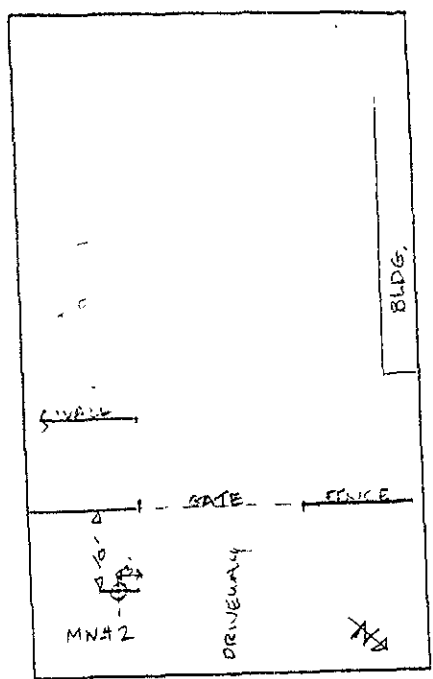
APPENDIX A
GROUNDWATER SAMPLING INFORMATION SHEETS

WATER-QUALITY SAMPLING INFORMATION

Project Name BECK ROOFING
 Date JANUARY 31ST '94
 Samplers Name ERIC HSSOL
 Sampling Location 21123 MEEKLAND AVE. HAYWARD CA.
 Sampling Method HAND BAILED (DISPOSABLE)
 Analyses Requested TPH GAS w/ BTEX
 Number and Types of Sample Bottles used 2-40 ml vials
 Method of Shipment PACKED IN ICE

Project No. 93110
 Sample No. MW # 2

GROUND WATER		SURFACE WATER	
Well No.	<u>MW # 2</u>	Stream Width	_____
Well Diameter (In.)	<u>2"</u>	Stream Depth	_____
Depth to Water, Static (ft)	<u>29.36'</u>	Stream Velocity	_____
Water in Well Box	<u>NONE</u>	Rained recently?	_____
Well Depth (ft)	<u>57.00'</u>	Other	_____
Height of Water Column in Well	<u>7.6'</u>	<input checked="" type="checkbox"/> 2-inch casing = 0.16 gal/ft	
Water Volume in Well	<u>1.22 gal</u>	4-inch casing = 0.65 gal/ft	
		5-inch casing = 1.02 gal/ft	
		6-inch casing = 1.47 gal/ft	



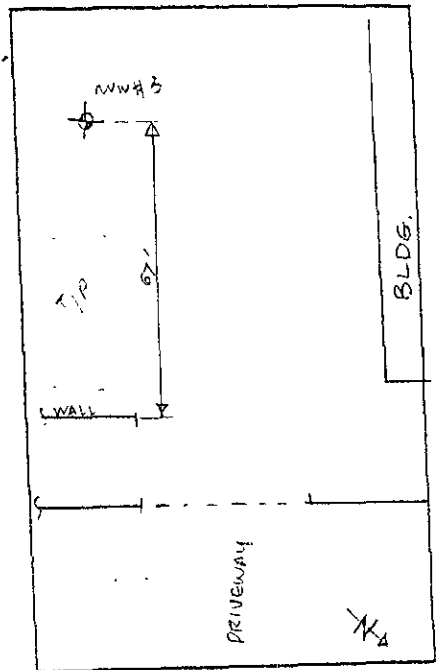
LOCATION MAP

TIME	DEPTH TO WATER (feet)	VOLUME WITHDRAWN (gallons)	TEMP °F	pH (S.U.) -20°C	COND (mahos/cm) x 100	OTHER		REMARKS
						X	Vol	
2:35p	29.36'	Ø	59.7°	6.52	9.60	✓	0	CLEAR
12:47p		1.5	59.7°	6.65	9.63	✓	1	PROBABLY TURBID (TAN)
12:46a		3.0	59.7°	6.91	9.63	x	2	" "
12:50		4.5	59.5°	6.88	9.62	x	3	" "
3:01	24.35'	6.0	59.6°	6.85	9.64	x	4	REMAINING STABLE LESS TURBID

Suggested Method for Purging Well _____

WATER-QUALITY SAMPLING INFORMATION

Project Name BECK ROOFING Project No. 93110
 Date JANUARY 31st '94 Sample No. MW #3
 Samplers Name ERIC LISSOL
 Sampling Location 21123 MEEKLAND AVE. HAYWARD, CA.
 Sampling Method HAND DRAINED (DISPOSABLE)
 Analyses Requested TPH GAS*/BTEX
 Number and Types of Sample Bottles used 2-40ml VOLS
 Method of Shipment PACKED IN ICE



GROUND WATER		SURFACE WATER	
Well No. <u>MW #3</u>	Stream Width _____	Well Diameter (In.) <u>2"</u>	Stream Depth _____
Depth to Water, Static (ft) <u>29.12'</u>	Stream Velocity _____	Water in Well Box <u>NONE</u>	Rained recently? _____
Well Depth (ft) <u>34.65'</u>	Other _____	Well Depth (ft) <u>34.65'</u>	Other _____
Height of Water Column in Well <u>8.53'</u>	✓ 2-inch casing = 0.16 gal/ft	Height of Water Column in Well <u>8.53'</u>	4-inch casing = 0.65 gal/ft
Water Volume in Well <u>1.36 GAL.</u>	5-inch casing = 1.02 gal/ft	Water Volume in Well <u>1.36 GAL.</u>	6-inch casing = 1.47 gal/ft

LOCATION MAP

TIME	DEPTH TO WATER (feet)	VOLUME WITHDRAWN (gallons)	TEMP °F	pH (S.U.) 7.00 C	COND (mhos/cm) X 20	OTHER		REMARKS
						X	VOL	
1:25p	29.12'	0	65.2°	6.54	10.23	X	0	WATERING PERIOD OVER CLEAR
1:30p	—	1.5	62.7°	6.57	10.32	X	1	TPH SLIGHTLY TURBID
1:33p	—	3.0	62.7°	6.62	10.20	X	2	TURBIDITY STILL IN WELL
1:37p	—	4.5	62.8°	6.56	10.19	X	3	
1:42p	24.55' ✓	6.0	62.7°	6.67	10.16	X	4	READING STABLE

Suggested Method for Purging Well _____

APPENDIX B
CHEMICAL ANALYTICAL DATA AND
CHAIN-OF-CUSTODY FORMS

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 7, 1994

ChromaLab File#: 9402037

GEN-TECH ENVIRONMENTAL

Atten: Eric Lissol

Project: BECK ROOFING
Submitted: February 2, 1994

Project#: 93110

re: 2 samples for Gasoline and BTEX analysis.

Matrix: WATER

Sampled on: January 31, 1994

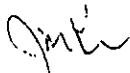
Analyzed on: February 3, 1994


Method: EPA 5030/8015/602

Run#: 2180

Lab #	SAMPLE ID	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
42778	MW #2	N.D.	N.D.	N.D.	N.D.	N.D.
42779	MW #3	9300	600	N.D.	210	300
DETECTION LIMITS		50	0.5	0.5	0.5	0.5
BLANK		N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY(%)		91	89	92	89	93

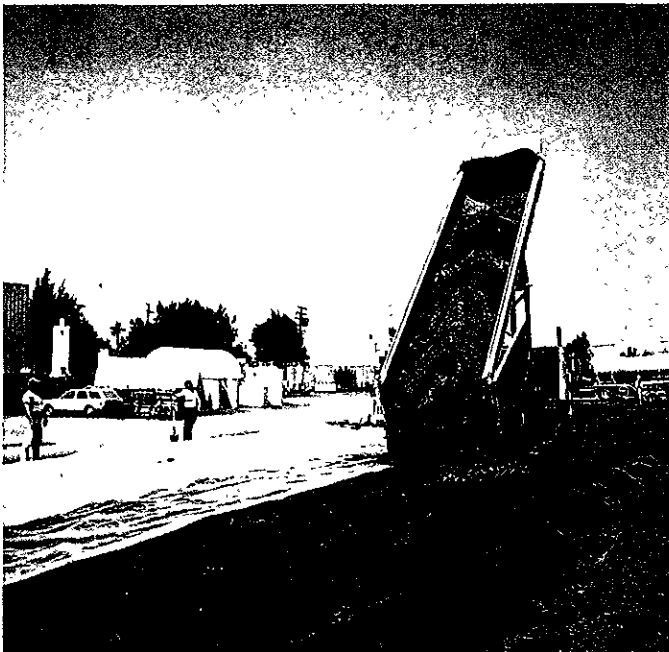
ChromaLab, Inc.


Jack Kelly
Chemist


Eric Tam
Laboratory Director

RECEIVED

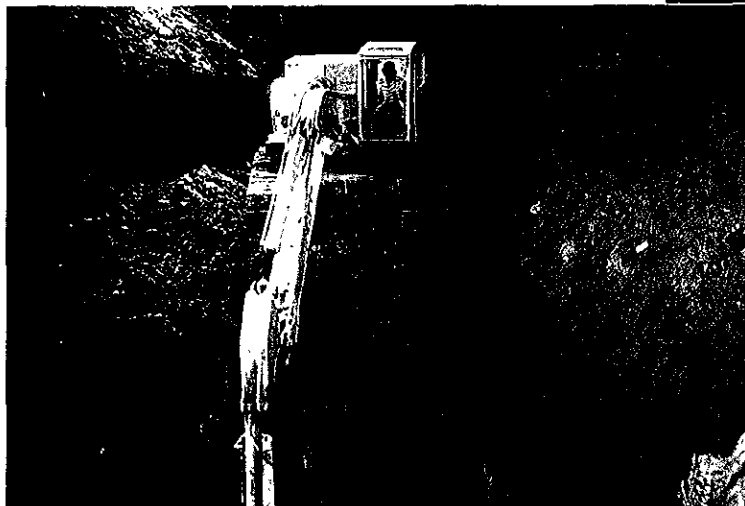
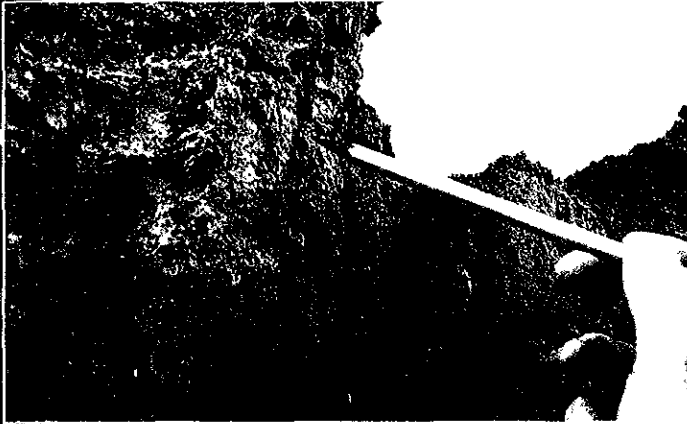
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G.T.E. Clients:

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Coast Oil Company
County of Alameda
Culligan Water
First Interstate Bank
Fox and Carskadon
Frito Lay, Inc.
Garden State International Trucking
Girard Tire Company
Goodyear Rubber and Tire Company
Keystone, Inc.
Mission Trails Oil Company
Paul Monroe Hydraulics
Polymetrics Corporation
Robinson Oil
Safety Kleen
Sandia Livermore Labs
Santa Clara University
Standard Fusee Corporation
Union Pacific Railroad
U.S. Postal Service
U.S. Sprint

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- Site Remediation
- Engineering Geologists on Staff
- Soil and Water Sampling and Testing



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