



Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

92 SEP 11 11 01 AM '92

August 25, 1992

Ms. Juliet Shin
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

**Re: Chevron Service Station #9-0504
15900 Hesperian Blvd., San Lorenzo**

Dear Ms. Shin:

Enclosed we are forwarding the Soil Sampling Report dated August 14, 1992, prepared by our consultant Weiss Associates (Weiss) for the above referenced site. As indicated in the report, soil samples from four (4) borings were collected at 5 and 10 feet below grade and then analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Trace to non-detectable concentrations of TPH-G and Benzene were detected in soil borings BH-A, BH-B, and BH-D. TPH-G and Benzene were detected in soil boring BH-C at 10 feet below grade only at concentrations of 660ppm and 0.82ppm, respectively. The proximity of this sample to the water table, currently around 10 feet below grade, indicates that the hydrocarbon soil contamination is associated with rising and falling groundwater.

In reviewing the boring logs for downgradient monitor wells C-1 and C-2, no mention was made of any hydrocarbon odors. Additionally, the boring logs and analytical data for downgradient monitor well C-8 show no presence of hydrocarbon contamination above the saturated zone. The historical boring data combined with the current soil sampling information serves to delineate the limited soil contamination.

The on-site groundwater remediation system has been installed and we are currently awaiting approval from the Ora Loma Sanitary District to start the system.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Very truly yours,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosures

cc: Mr. Eddy So, RWQCB-Bay Area
Mr. W. T. Scudder
File (9-0504 R1)

**Mr. Bruce E. Prigoff, Esq.
Steeffel, Levitt & Weiss
One Embarcadero Center, 29th Floor
San Francisco, CA 94111**



August 14, 1992

Nancy Vukelich
Chevron U.S.A. Products Company
P.O. Box 5004
San Ramon, CA 94583-0804

Re: Soil Sampling Results
Chevron SS #9-0504
15900 Hesperian Blvd.
San Lorenzo, California
WA Job # 4-551-83

Dear Ms. Vukelich:

As you requested, this letter presents results of soil sampling performed by Weiss Associates (WA) at the site referenced above (Figure 1). On July 28, 1992, WA drilled four borings adjacent to the underground fuel storage tanks as shown in Figure 2. Each borehole was 2-inches in diameter and about 11.5 ft deep.

WA used a trailer-mounted solid-stem auger rig to perform drilling. We collected soil samples at 5 and 10 ft below ground surface in each borehole by driving a split-spoon sampler lined with brass tubes. Each sample tube was sealed with Teflon tape and plastic caps and kept refrigerated for transport to a California-certified analytical laboratory.

Soil samples were analyzed for total petroleum hydrocarbons as gasoline by modified EPA Method 8015 and benzene, ethylbenzene, toluene and total xylenes by EPA Method 8020. Analytic results are summarized in Table 1 along with sample depth and soil type. The analytical report and chain of custody form are included as Attachment A.

To prevent cross-contamination during drilling, we used clean augers in each borehole. Before driving each sample, we cleaned the split-spoon sampler with an Alconox solution followed by a deionized water rinse. We backfilled each borehole with neat cement.

Nancy Vukelich
August 14, 1992

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Weiss Associates



We trust this report meets your needs. Please feel free to call if you have any questions.

Sincerely,
Weiss Associates

A handwritten signature in cursive script that reads "Thomas R. Berry".

Thomas R. Berry
Project Geologist

TRB:trb

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Attachments: Figure 1 - Site Location Map
Figure 2 - Borehole Locations
Table 1 - Analytic Results for Soil
Attachment A: Analytical Report

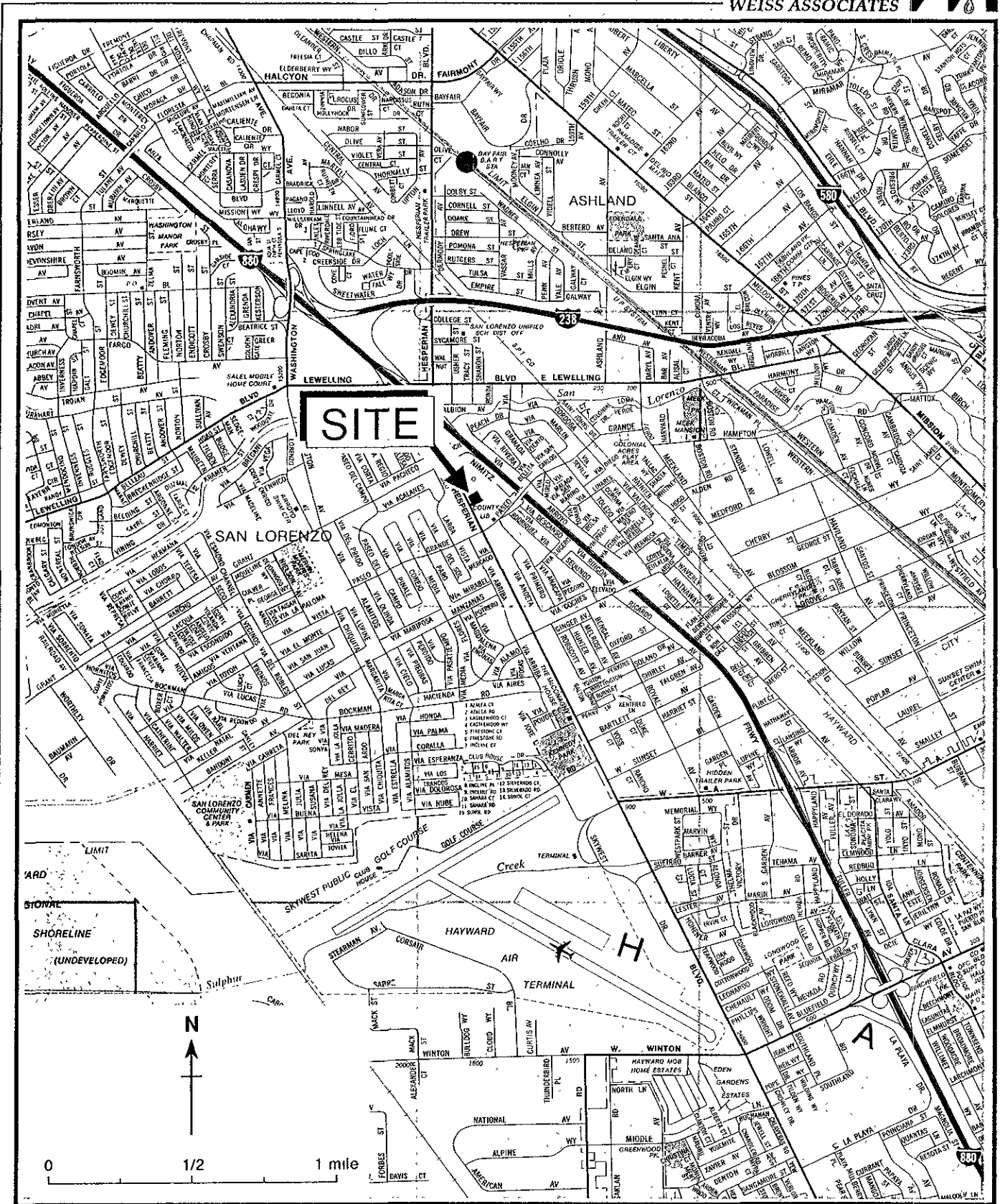


Figure 1. Site Location Map, Chevron Service Station #9-0504, 15900 Hesperian Blvd., San Lorenzo, California

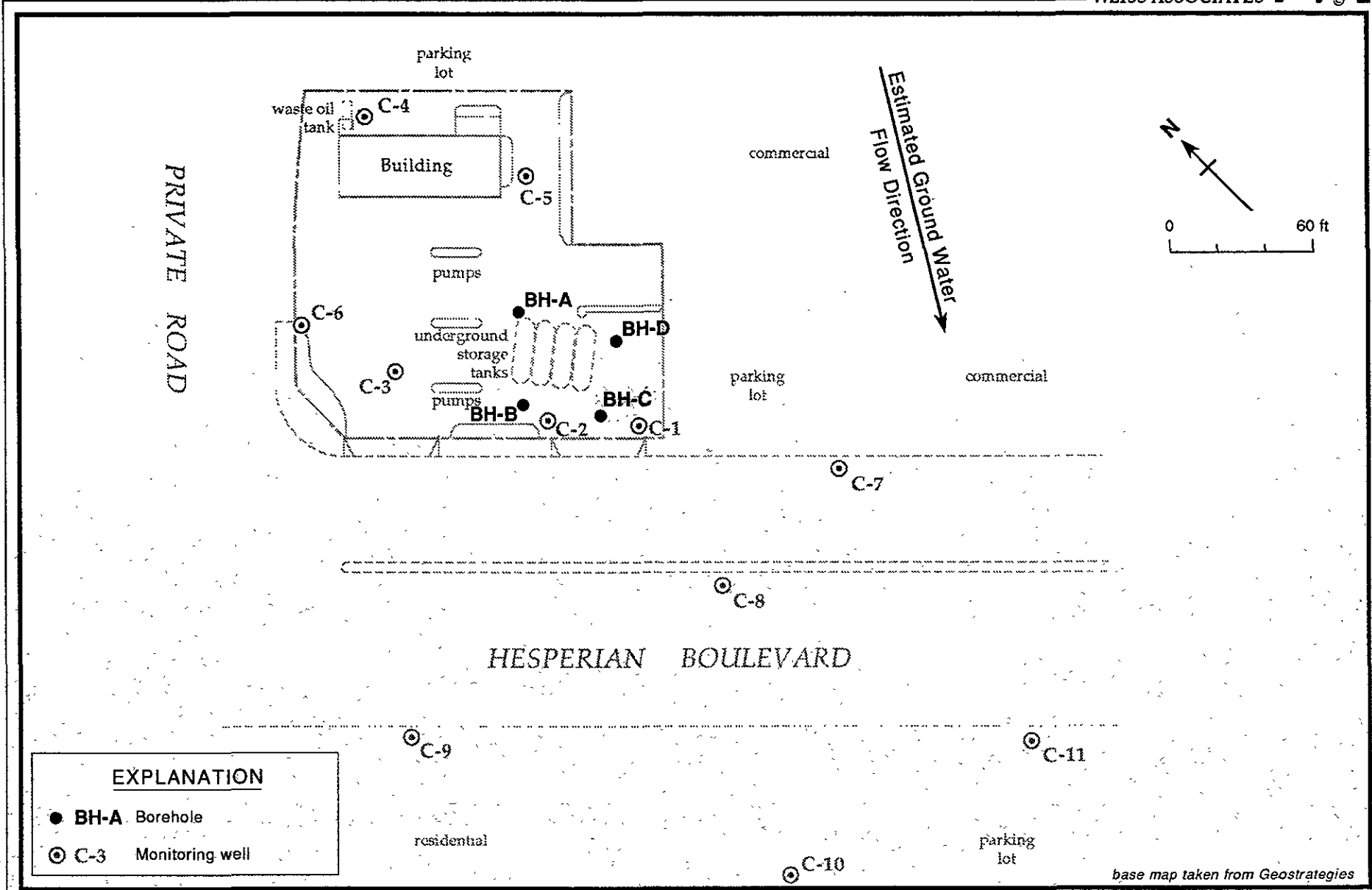


Figure 2. Borehole Locations - Chevron Service Station #9-0505, 15900 Hesperian Boulevard, San Lorenzo, California

Table 1. Analytic Results for Soil - Chevron Service Station #9-0504, 15900 Mesperian Boulevard, San Lorenzo, California

Borehole ID	Date Sampled	Sample Depth (ft)	Soil Type	Analytical Lab	TPH-G	B	E	T	X
					-----parts per million (mg/kg)-----				
BH-A	07/28/92	5.0	Clayey silt	SPA	1	0.039	0.023	0.083	0.099
		10.0	Clayey silt	SPA	5	0.052	0.14	0.013	0.066
BH-B	07/28/92	5.0	Clayey silt	SPA	<1.0	0.010	<.005	0.005	0.006
		10.0	Clayey silt	SPA	6	0.043	0.059	<.005	0.29
BH-C	07/28/92	5.0	Clayey silt	SPA	<1.0	<.005	<.005	<.005	<.005
		10.0	Clayey silt	SPA	660	0.82	9.1	0.33	47
BH-D	07/28/92	5.0	Clayey silt	SPA	1	0.019	<.005	0.005	0.009
		10.0	Clayey silt	SPA	11	0.057	0.22	<.005	0.36

Abbreviations:

TPH-G = Total Petroleum Hydrocarbons as Gasoline by Modified EPA Method 8015

B = Benzene by EPA Method 8020

E = Ethylbenzene by EPA Method 8020

T = Toluene by EPA Method 8020

X = Xylenes by EPA Method 8020

<n = Not detected at detection limits of n ppm

Analytical Laboratory:

SPA = Superior Precision Analytical Laboratory, San Francisco, California



ATTACHMENT A
ANALYTICAL REPORT



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

Weiss Associates
Attn: TOM BERRY

Project 4-551-83
Reported 08/06/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
13324- 1	BH-A 5'	07/29/92	08/05/92 Soil
13324- 2	BH-A 10'	07/29/92	08/05/92 Soil
13324- 3	BH-B 5'	07/29/92	08/05/92 Soil
13324- 4	BH-B 10'	07/29/92	08/05/92 Soil
13324- 5	BH-C 5'	07/29/92	08/05/92 Soil
13324- 6	BH-C 10'	07/29/92	08/03/92 Soil
13324- 7	BH-D 5'	07/29/92	08/05/92 Soil
13324- 8	BH-D 10'	07/29/92	08/05/92 Soil

RESULTS OF ANALYSIS

Laboratory Number:	13324- 1	13324- 2	13324- 3	13324- 4	13324- 5
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Gasoline:	1	5	ND<1	6	ND<1
Benzene:	0.039	0.052	0.010	0.043	ND<.005
Toluene:	0.083	0.013	0.005	ND<.005	ND<.005
Ethyl Benzene:	0.023	0.14	ND<.005	0.059	ND<.005
Xylenes:	0.099	0.066	0.006	0.29	ND<.005
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

Laboratory Number:	13324- 6	13324- 7	13324- 8
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Gasoline:	660	1	11
Benzene:	0.82	0.019	0.057
Toluene:	0.33	0.005	ND<.005
Ethyl Benzene:	9.1	ND<.005	0.22
Xylenes:	47	0.009	0.36
Concentration:	mg/kg	mg/kg	mg/kg



C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 13324

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

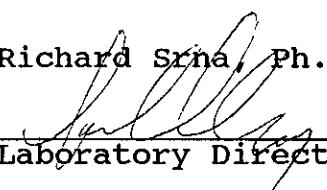
Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	200 ng	93/93	0%	75-111
Benzene:	200 ng	95/96	1%	75-114
Toluene:	200 ng	95/96	2%	78-114
Ethyl Benzene:	200 ng	101/102	0%	76-120
Xylenes:	600 ng	96/97	0%	71-117

Richard Srna, Ph.D.


Laboratory Director

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number: <u>9-0504</u> Facility Address: <u>15900 HESPERIAN SAN LORENZO, CA</u> Consultant Project Number: <u>4-551-83</u> Consultant Name: <u>WEISS ASSOCIATES</u> Address: <u>5500 SHELLMOUND ST. EMERYVILLE CA 94608</u> Project Contact (Name): <u>TOM BERRY</u> (Phone) <u>50547 5420</u> (Fax Number) <u>510547 5043</u>	Chevron Contact (Name): <u>NANCY YUKELICH</u> (Phone): <u>510-842-9581</u> Laboratory Name: <u>SUPERIOR PRECISION ANALYTICAL</u> Laboratory Release Number: <u>7583810</u> Samples Collected by (Name): <u>D. CHARLES</u> Collection Date: <u>7/28-29/92</u> Signature: <u>[Signature]</u>
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Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed											Remarks
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)				
BH-A 5'		2	S	D	0930	NONE	Y	X											"ANALYZE ONE SAMPLE AND PLACE ALL DUPLICATES ON HOLD."
BH-A 10'					1000														
BH-B 5'					1040														
BH-B 10'					1130														
BH-C 5'					1230														
BH-C 10'					1255														
BH-D 5'					0145														
BH-D 10'					0200														

Please initial: [Signature]

Samples Stored in ice: Yes

Appropriate containers: Yes

Samples preserved: NA

VOA's without headspace: NA

Comments: _____

7/29/92
TOM BERRY
 (called wants STAT)

Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>Weiss Assoc.</u>	Date/Time: <u>7/29/92</u>	Received By (Signature): <u>Ronald C. Jensen</u>	Organization: <u>Weiss Assoc.</u>	Date/Time: <u>7/29/92 11:00</u>	Turn Around Time (Circle Choice) RECEIVED 24 Hrs. FROM SECURE AREA 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature): <u>Ronald C. Jensen</u>	Organization: <u>Weiss Assoc.</u>	Date/Time: <u>7/29/92 1332</u>	Received By (Signature): <u>[Signature]</u>	Organization: <u>EXPRESS IT</u>	Date/Time: <u>7-29-92 1332</u>	
Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>EXPRESS IT</u>	Date/Time: <u>7-29-1430</u>	Received For Laboratory By (Signature): <u>Cecilia G. [Signature]</u>		Date/Time: <u>7/29/92 1430</u>	

COC-3.DWG/03 91/HCH