

ENVIRONMENTAL, INC.

801 Riverside Avenue, Suite C, Roseville, CA 95678

916 • 782-2110 / 916 • 969-2110 / FAX 916 • 786-7830

January 31, 1991

NO WELL SAMPLE Ms. Penny Silzer Regional Water Quality Control Board San Francisco Region 1800 Harrison Street Oakland, California 94612

Subject: Request for Site Closure

Shell Service Station (WIC #204-4380-0303) 318 S. Livermore Avenue and Third Street

Livermore, California Aegis Project No. 89-041

Dear Ms. Silzer:

Aegis Environmental, Inc. (Aegis) requests site closure and approval for abandonment of the four on-site ground water monitoring wells at the above subject site.

SITE HISTORY

A prior consultant drilled and sampled four soil borings to an approximate depth of 15 feet, adjacent to the previous existing/current replacement tank basin on February 27, 1989. Samples were obtained every 5 feet and screened with an organic vapor analyzer. All results were zero ppm. One sample from each boring at 15 feet of depth was submitted for chemical analysis. The chemical analysis did not indicate detectable levels of gasoline constituents.

On March 14, 1989, the same consultant obtained a grab sample of backfill material near the fill riser pipe of the regular leaded underground gasoline tank and submitted the sample for chemical analysis. The chemical analysis indicated 37.000/ppm TPH as gasoline, total lead of 550 ppm and soluble threshold limit concentration (STLC) for lead of 42 ppm. 377000

A tank closure permit was obtained by Aegis in November 1989. underground gasoline storage tanks were removed and legally disposed on December 5, 1989. Ground water was not encountered in the excavation.

89-041A_LTR

Ms. Penny Silzer RWQCB San Francisco Region January 30, 1991 Page 2

Subsequent to the tank closure, backfill and native soil containing gasoline were removed from the tank basin, sampled and stockpiled on-site. Disposal of approximately 300 cubic yards of soil containing less than 100 ppm TPH as gasoline was permitted and accomplished at the West Contra Costa County Sanitary landfill.

Approximately 40 cubic yards of soil containing 180 ppm TPH as gasoline was thin spread on-site for aeration. Sampling in the bottom of the excavation indicated predominately non-detectable and trace (less than 10 ppm TPH as gasoline) levels of gasoline in native soils left in place. Analytical results of the samples taken during the tank closure are attached.

A meeting with Lowell Miller of Alameda County, Clarke Owen of Aegis and George Johnston of R.W. Johnston took place on December 20, 1989. It was agreed to proceed with the new tank installation with a provision to assess ground water quality beneath the site. The tank closure/replacement was permitted through Alameda County and the City of Livermore Fire Department. The tank closure was completed on December 5, 1989. The aerated 40 cubic yards of soil that contained greater than 100 ppm TPH as gasoline was permitted and disposed of at West Contra Costa County landfill. The new tank installation has been completed. Product line trench sampling occurred as existing piping was removed. Preparation submission of the tank closure results report in February 1990, presented the results of soil remediation that occurred during the tank closure/replacement. A monitoring well installation work plan was concurrently prepared and submitted with the tank closure results report. The monitoring well installation and investigative soil boring assessment was conducted in May 1990. The analytical ground water and soil sample results are attached. The results obtained during the well installation indicate non-detectable levels of TPH as gasoline in native soils. The analytical results from the two consecutive quarterly water sampling events to assess water quality and quantity of gasoline constituents present there in indicate non-detectable levels of TPH as gasoline constituents.

The results of the site investigation, tank closure/replacement and ground water assessment indicate petroleum hydrocarbon levels that are remaining within the soil matrix do not present a threat to the ground water beneath the site. Closure is requested by Aegis Environmental, Inc. for the Shell Service Station located at 318 S. Livermore Avenue, Livermore, California.

Ms. Penny Silzer RWQCB San Francisco Region January 30, 1991 Page 3

If you have any questions or require further clarification regarding the investigation or closure request, please contact me or Mr. Pat Wright at (916) 782-2110.

Sincerely,

AEGIS ENVIRONMENTAL, INC.

Tracy I. Schilling Project Engineer

Pat Wright

Registered Geologist

No. 529

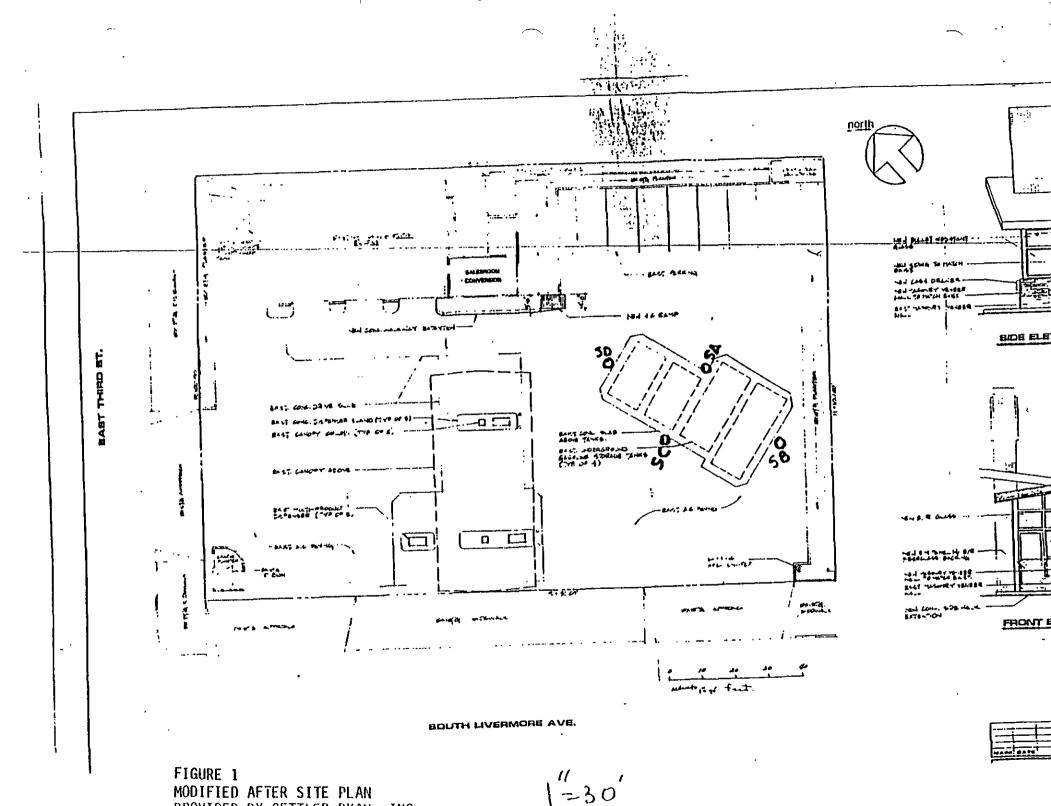
TS/PW/vj

cc: Kurt Miller - Shell Oil Company

Lowell Miller - Alameda County Health Department



SUMMARY KNOWN ANALYTICAL DATA AND FIGURES SHOWING SAMPLE LOCATIONS





1000 14 C

GETTLER-RYAH FING March 67 1989 CHRISTIANTOR

Gettler-Ryan 1992 National Avenue Hayward, CA 94545

ATIN: John Werfal

Following are the results of analyses on the samples described below.

Project:

GR #9657, WCC #8820011A/0117, Shell,

318 S. Livermore Avenue, Livermore

Lab Numbers:

\$9-\textit{0}2-329-\textit{0}3, \$9-\textit{0}2-329-\textit{0}6,

\$9-\02-329-\09, \$9-\02-329-12

Number of Samples: Sample Type:

Soil 2/27/89

Date Received: Analyses Requested:

Analyses Requested: Low Boiling Hydrocarbons

The method of analysis for low boiling hydrocarbons is taken from EPA Methods 8015, 8020 and 5030. The sample is examined using the purge and trap technique. Final detection is by gas chromatography using a flame ionization detector as well as a photoionization detector. The result for total low boiling hydrocarbons is calculated as gasoline and includes benzene, toluene, ethyl benzene and xylenes.

ITAS/San Jose Lab Number	Client Sample Identification	Sample Date	Extraction Date	Date Analysis Completed	Sample Condition on receipt
59-02-329-03	SA-3-4	2/27/89	3/1/89	3/2/89	cool
S9-02-329-06	SB-3-4	2/27/89	3/1/89	3/2/89	cool
S9-02-329-09	SC-3-4	2/27/89	3/1/89	3/2/89	cool
S9-Ø2-329 - 12	SD-3-4	2/27/89	3/1/89	3/2/89	cool

FR/an

1 Page Following - Table of Results

ITAS/San Jose to Gettler-Ryan ATIN: John Werfal

March 6, 1989 Page 1 of 1

Project: GR #9657, WCC #8820011A/0117, Shell, 318 S. Livermore, Livermore

Summary of Results

ND = None Det	ected	Milligrams	per Kilo	gram - (I	ry Soil	Basis)	
Lab Number	Sample Identification	Low Boiling Hydrocarbons (calculated as gasoline)	Benzene	Toluene	Ethyl Benzene	Xylenes	
\$9-02-229-03	SA-3-4	ND	ND	ND	ИD	ИD	
59-02-229-06	SB-3-4	ND	ND	ND	ND	NID	
S9-Ø2-229-Ø9	SC-3-4	ND	ND	ND	ИD	ИD	
s9-Ø2-229-12	SD-3-4	ND	ND	ND	ND	ND	
Detection Lim	it	5.	ø.ø5	Ø . 1	Ø.1	Ø.3	



The boundary

450F 50 5 659

CHIRD TO LOOK BYO

March 28, 1989

Gettler-Ryan 1992 National Avenue Hayward, CA 94545

ATIN: John Werfal

Following are the results of analyses on the samples described below.

Project:

GR #9657, Shell, 318 S. Livermore Ave.,

Livermore

Lab Number:

S9-Ø3-176-Ø1

Sample Type:

1 Soil

Date Received:

3/14/89

Analyses Requested: Low Boiling Hydrocarbons, Total Lead, W.E.T. Lead

The method of analysis for low boiling hydrocarbons is taken from EPA Methods 8015, 8020 and 5030. The sample is examined using the purge and trap technique. Final detection is by gas chromatography using a flame ionization detector as well as a photoionization detector. The result for total low boiling hydrocarbons is calculated as gasoline and includes benzene, toluene, ethyl benzene and xylenes.

The samples were analyzed for inorganic parameters following E.P.A. Protocol, using methods from SW846 3rd Edition or methods for chemical analysis of water and wastes 600/4-79-020. The method employed is listed adjacent to the parameter in the table.

FR/an

3 Pages Following - Tables of Results

ITAS/San Jose to Gettler-Ryan

ATIN: John Werfal

March 28, 1989 Page 1 of 3

Project: GR #9657, Shell, 318 S. Livermore Avenue, Livermore

ITAS/San Jose Lab Number	Client Sample Identification	Sample Date	Extraction Date	Date Analysis Completed	Sample Condition on receipt
S9-Ø3-176-Ø1	A	3/14/89	3/15/89	3/15/89	cool

Summary of Results

ND = None Det	ected	Milligrams g	er Kilog	gram — (I	ry Soil	Basis)
Lab Number 59-03-176-01 Detection Lin	Sample Identification A	Low Boiling Hydrocarbons (calculated as gasoline) 37,000. 6,000.	Benzene 320. 60.	Toluene 2,300. 100.	Ethyl Benzene 700. 100.	Xylenes 5,400. 300.

ITAS/San Jose to Gettler-Ryan ATIN: John Werfal

March 28, 1989 Page 2 of 3

Project: GR #9657, Shell, 318 S. Livermore Avenue, Livermore

ND = None Detected

Summary of Results - Milligrams per Kilogram

Lab Number	Sample Identification	Total E.P.A. Method Dete	Lead Detection	•
S9-Ø3-176-Ø1	A	6Ø1Ø 55	3.0	

ITAS/San Jose to Gettler-Ryan

ATIN: John Werfal

March 28, 1989 Page 3 of 3

Project: GR \$9657, Shell, 318 S. Livermore Avenue, Livermore

ND = None Detected

Summary of Results - Milligrams per Liter

(W.E.T. Method)

WET Lead Detected Sample Lab Number Identification E.P.A. Method A

42.

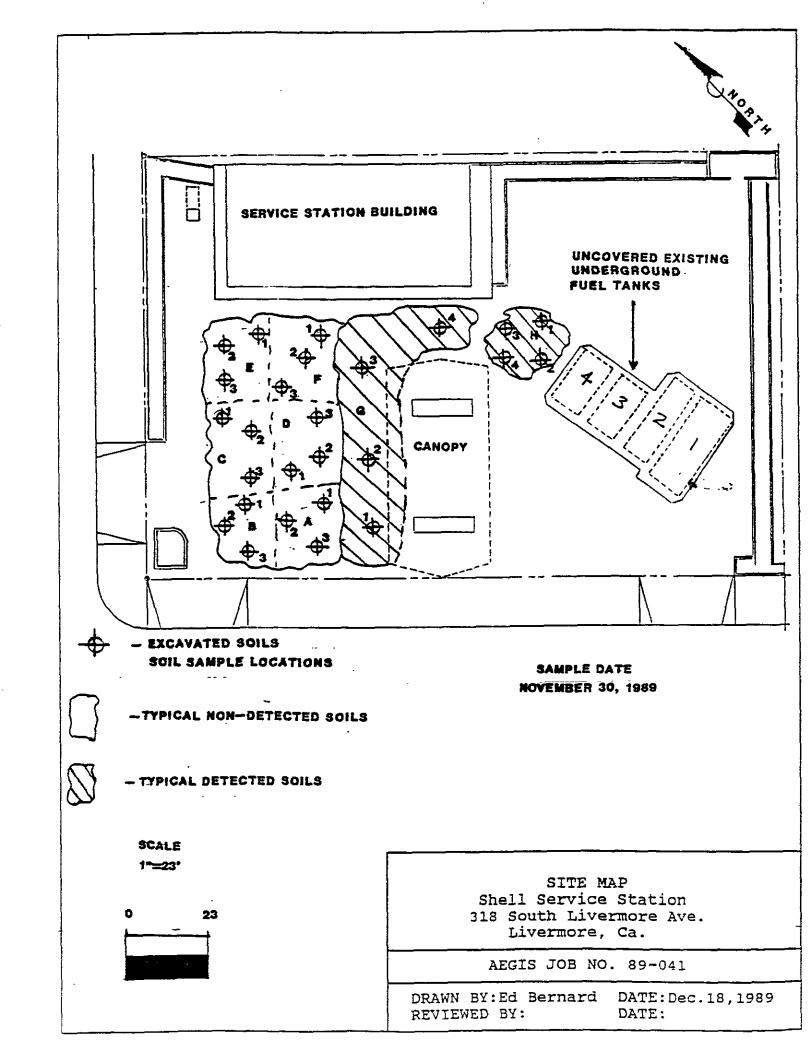
Limit

Detection

Ø.Ø6

59-03-176-01

6Ø1Ø





ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

Aegis Environmental Consultants

801 Riverside Avenue, Suite C

Roseville, CA 95678 ATTN: Tracy Schilling

Work Order Number: S9-11-370

Date: December 7, 1989

P.O. Number: MOH 890501A

This is the Certificate of Analysis for the following samples:

Client Project ID:

Aegis #89-041, Shell, 318 S. Livermore

Avenue/3rd Street, Livermore, CA

Date Received by Lab:

11/30/89

Number of Samples:

26

Sample Type:

Soil

The methods of analysis for metals and general chemistry are taken from E.P.A. protocol, using methods from SW-846, 3rd Edition or Methods for Chemical Analysis of Water and Wastes, 600/4-79-020. The method used is listed adjacent to the parameter in the table.

The samples were prepared by extracting with 0.2M sodium citrate for 48 hours. The resulting values are the soluble threshold limit limit concentrations for the requested parameters.

The method of analysis for low boiling hydrocarbons is taken from EPA Methods 8015, 8020 and 5030. The sample is examined using the purge and trap technique. Final detection is by gas chromatography using a flame ionization detector as well as a photoionization detector. The result for total low boiling hydrocarbons is calculated as gasoline and includes benzene, toluene, ethyl benzene and xylenes.

Reviewed and Approved

Michael E. Dean Project Manager

MED/an

16 Pages Following - Tables of Results

American Council of Independent Laboratories International Association of Environmental Testing Laboratories American Association for Laboratory Accreditation

Page: 2 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell,

318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: A-1, A-2, A-3 [composite]

Sample Date: 11/30/89

Lab Sample ID: S9-11-370-01, S9-11-370-02, S9-11-370-03 [composite]

Receipt Condition: Cool Extraction Date: 12/1/89 Analysis Date: 12/1/89

Total Petroleum Hydrocarbons - Modified E.P.A. Methods 8015, 8020

	- F	
Parameter	Detection Limit	Detected
4000.7794446000000000000000000000000000000000		
Low Boiling Hydrocarbons,		
calculated as Gasoline	2.5	None
Benzene	0.025	None
Toluene	0.025	None
Ethyl Benzene	0.025	None
Xylenes (total)	0.05	None

Page: 4 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell, 318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: B-1, B-2, B-3 [composite]

Sample Date: 11/30/89

Lab Sample ID: S9-11-370-04, S9-11-370-05, S9-11-370-06 [composite]

Receipt Condition: Cool Extraction Date: 12/1/89 Analysis Date: 12/1/89

Total Petroleum Hydrocarbons - Modified E.P.A. Methods 8015, 8020

Parameter	Detection Limit	Detected
Low Boiling Hydrocarbons,		
calculated as Gasoline	2.5	None
Benzene	0.025	None
Toluene	0.025	None
Ethyl Benzene	0.025	None
Xylenes (total)	0.05	None

Page: 6 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell, 318 S. Livermore Ave./3rd St., Livermore, CA Work Order Number: S9-11-370

Client Sample ID: C-1, C-2, C-3 [composite]

Sample Date: 11/30/89

Lab Sample ID: S9-11-370-07, S9-11-370-08, S9-11-370-09 [composite]

Receipt Condition: Cool Extraction Date: 12/1/89 12/1/89 Analysis Date:

Total Petroleum Hydrocarbons - Modified E.P.A. Methods 8015, 8020

-		
Parameter	Detection Limit	Detected
Low Boiling Hydrocarbons, calculated as Gasoline Benzene Toluene Ethyl Benzene	2.5 0.025 0.025 0.025	None None None
Xylenes (total)	0.05	None

Page: 8 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell, 318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: D-1, D-2, D-3 [composite]

Sample Date: 11/30/89

Lab Sample ID: S9-11-370-10, S9-11-370-11, S9-11-370-12 [composite]

Receipt Condition: Cool Extraction Date: 12/1/89 Analysis Date: 12/4/89

Total Petroleum Hydrocarbons - Modified E.P.A. Methods 8015, 8020

Parameter	Detection Limit	Detected
Low Boiling Hydrocarbons, calculated as Gasoline	2.5	None
Benzene	0.025	None
Toluene	0.025	None
Ethyl Benzene	0.025	None
Xylenes (total)	0.05	None

Page: 10 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell,

318 S. Livermore Ave./3rd St., Livermore, CA Work Order Number: S9-11-370

Client Sample ID: E-1, E-2, E-3 [composite]

Sample Date:

11/30/89

Lab Sample ID:

S9-11-370-13, S9-11-370-14, S9-11-370-15 [composite]

Receipt Condition: Cool Extraction Date: 12/1/89
Analysis Date: 12/1/89

Total Petroleum Hydrocarbons - Modified E.P.A. Methods 8015, 8020

Parameter	Detection Limit	Detected
Low Boiling Hydrocarbons,		
calculated as Gasoline	2.5	None
Benzene	0.025	None
Toluene	0.025	None
Ethyl Benzene	0.025	None
Xylenes (total)	0.05	None

Page: 12 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell,

318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: F-1, F-2, F-3 [composite]

Sample Date: 11/30/89

Lab Sample ID: S9-11-370-16, S9-11-370-17, S9-11-370-18 [composite]

Receipt Condition: Cool Extraction Date: 12/1/89 Analysis Date: 12/5/89

Total Petroleum Mydrocarbons - Modified E.P.A. Methods 8015, 8020

Parameter	Detection Limit	Detected
	·	
Low Boiling Hydrocarbons,		
calculated as Gasoline	2.5	None
Benzene	0.025	None
Toluene	0.025	None
Ethyl Benzene	0.025	None
Xylenes (total)	0.05	None

Page: 1 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell, 318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: A-1, A-2, A-3 [composite]

Sample Date:

11/30/89

Lab Sample ID: S9-11-370-01, S9-11-370-02, S9-11-370-03 [composite]

Receipt Condition: Cool

Results - Milligrams per Kilogram

		Detection				
Parameter	E.P.A. Method	Limit	Detected			
Lead	6010	1.5	25.			

		Detection thod Limit	
Parameter	B.P.A. Method	<u> </u>	Detected
Lead	6010	0.06	0.98

Page: 3 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell, 318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: B-1, B-2, B-3 [composite]

Sample Date:

11/30/89

Lab Sample ID:

S9-11-370-04, S9-11-370-05, S9-11-370-06 [composite]

Receipt Condition: Cool

Results - Milligrams per Kilogram

Parameter	S.P.A. Method	Detection Limit	Detected
Lead	6010	1.5	9.3

Parameter	Detection		
	B.P.A. Method	L imit	Detected
Lead	6010	0.06	0.22

Page: 5 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell,

318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: C-1, C-2, C-3 [composite]

Sample Date:

11/30/89

Lab Sample ID:

\$9-11-370-07, \$9-11-370-08, \$9-11-370-09 [composite]

Receipt Condition: Cool

Results - Milligrams per Kilogram

	Detection		
Parameter	E.P.A. Method	Limit	Detected
Lead	6010	1.5	9.9
			2

-	Detection		
Parameter	B.P.A. Method	Limit	Detected
Lead	6010	0.06	0.11

Page: 7 of 16
Date: December 7, 1989
Client Project ID: Aegis #89-041, Shell,

Work Order Number: S9-11-370 318 S. Livermore Ave./3rd St., Livermore, CA

Client Sample ID: D-1, D-2, D-3 [composite]

Sample Date:

11/30/89

Lab Sample ID:

S9-11-370-10, S9-11-370-11, S9-11-370-12 [composite]

Receipt Condition: Cool

Results - Milligrams per Kilogram

	Detection		
Parameter	E.P.A. Method	Limit	Detected
	ب ب نه د د د د نه پري وي په پېښې نې و سوم به کا ته ر		
T.ead	6010	1.5	8.2
Tear	4420	4.0	

Parameter	E.P.A. Method	Limit	Detected
Lead	6010	0.06	0.13

Page: 9 of 16 Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell, 318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: E-1, E-2, E-3 [composite]

Sample Date:

11/30/89

Lab Sample ID: S9-11-370-13, S9-11-370-14, S9-11-370-15 [composite]

Receipt Condition: Cool

Results - Milligrams per Kilogram

Damen a bar	E.P.A. Method	Detection Limit	Detected
Parameter			
Lead	6010	1.5	15.

	Detection		
Parameter	E.P.A. Method	L imi t	Detected
Lead	6010	0.06	0.28

Page: 11 of 16 Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell,

318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: F-1, F-2, F-3 [composite]

Sample Date:

11/30/89

Lab Sample ID:

S9-11-370-16, S9-11-370-17, S9-11-370-18 [composite]

Receipt Condition: Cool

Results - Milligrams per Kilogram

	Detection		
Parameter	E.P.A. Method	Limit a	Detected
Lead	. 6010	1.5	11.

	Detection		
Parameter	E.P.A. Method	Limit	Detected
• ·			
Lead	6010	0.06	0.69

Page: 14 of 16
Date: December 7, 1989
Client Project ID: Aegis #89-041, Shell,

318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: G-1, G-2, G-3, G-4 [composite]

Sample Date: 11/30/89

Lab Sample ID: \$9-11-370-19, \$9-11-370-20, \$9-11-370-21,

S9-11-370-22 [composite]

Receipt Condition: Cool Extraction Date: 12/1/89. Analysis Date: 12/5/89

Total Petroleum Hydrocarbons - Modified E.P.A. Methods 8015, 8020

Parameter	Detection Limit	Detected
Low Boiling Hydrocarbons,		
calculated as Gasoline	34.	190.
Benzene	0.025	0.38
Toluene	0.025	3.0
Ethyl Benzene	0.025	1.4
Xylenes (total)	0.05	11.

Page: 13 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell, 318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: G-1, G-2, G-3, G-4 [composite]

Sample Date:

11/30/89

Lab Sample ID:

S9-11-370-19, S9-11-370-20, S9-11-370-21

S9-11-370-22 [composite]

Receipt Condition: Cool

Results - Milligrams per Kilogram

Parameter B.P.A. Method		Detection Limit	Detected
Lead	6010	1.5	21.

Parameter-	B.P.A. Method	<u>Limit</u>	Detected			
T.ead	6010	0.06	0.49			

Page: 16 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell,

318 S. Livermore Ave./3rd St., Livermore, CA Work Order Number: S9-11-370

Client Sample ID: H-1, H-2, H-3, H-4 [composite]

Sample Date: 11/30/89

Lab Sample ID: S9-11-370-23, S9-11-370-24, S9-11-370-25,

S9-11-370-26 [composite]

Receipt Condition: Cool Extraction Date: 12/1/89 Analysis Date: 12/5/89

Total Petroleum Hydrocarbons - Modified E.P.A. Methods 8015, 8020

·		,
Parameter	Detection Limit	Detected
Low Boiling Hydrocarbons, calculated as Gasoline	16.	100.
Benzene	0.2	0.3
Toluene	0.2	3.2
Ethyl Benzene	0.2	1.6
Xylenes (total)	0.3	14.

Page: 15 of 16

Date: December 7, 1989

Client Project ID: Aegis #89-041, Shell, 318 S. Livermore Ave./3rd St., Livermore, CA

Work Order Number: S9-11-370

Client Sample ID: H-1, H-2, H-3, H-4 [composite]

Sample Date:

11/30/89

Lab Sample ID:

S9-11-370-23, S9-11-370-24, S9-11-370-25

\$9-11-370-26 [composite]

. Receipt Condition: Cool

Results - Milligrams per Kilogram

			Detection		
Parameter	E.P.A. Method	<u> Limit</u>	Detected		
Lead	6010	1.5	11.		

	Detection					
Parameter	B.P.A. Method	Limit	Detected			
	•					
Lead	6010	0.06	0.35			





December 02, 1989

AEGIS Enviromental Cons. 801 Riverside Avae. Suite C Roseville, CA. 95678

RE:Project #: 204-4380-0303 986683 5441 M60

89041

ATTENTION: Tracy Schilling

On November 30, 1989, the following samples were received at the ITAS San Jose Laboratory:

G-4

H-1

H-2 H-3

H-4

Your Sample ID's :

A-1 A-2 A-3 B-1 B-2 B-3 C-1 C-2 C-3 D-1 D-2 D-3 E-1 E-2 E-3

The samples were checked into our sample tracking system as order number S9-11-370 and assigned testing for the following parameters:

Waste Extraction Test Soil EPA 6010 Modified 8015/8020

When the above analyses are completed, your report will be issued to the address or addresses stated on the request for analysis form. If you need to arrange for other reporting, please contact me.

Sincerely, DeCal

F-1 F-2 F-3 G-1 G-2 G-3

Jøsephine Decarli

Sample

Location and Description



Sample

Number

59-11-370 **CHAIN-OF-CUSTODY RECORD**

Sample

Турв

Container

Туре

Disposal

Record No.

Condition on Receipt

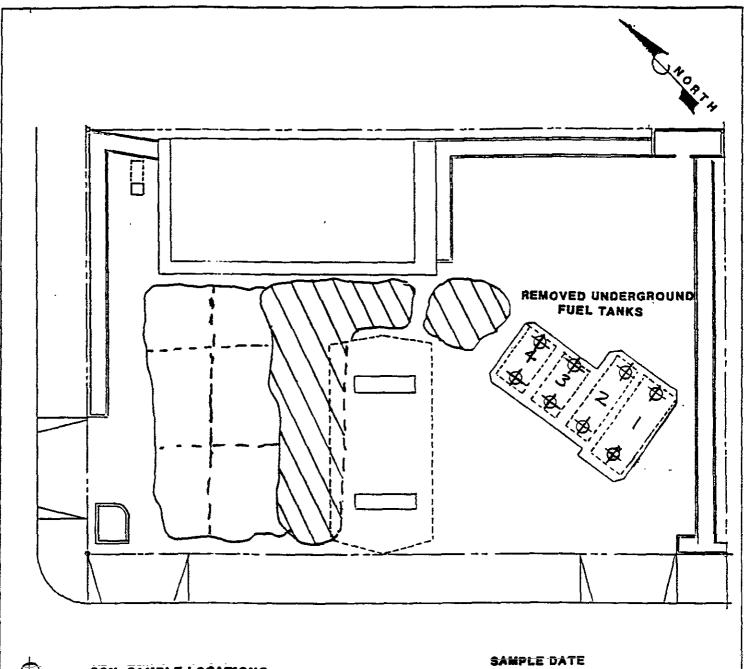
(Name and Date)

	C/C Control No. A 00000
PROJECT NAME/NUMBER LIVERMORE SHELL; 89-041	LAB DESTINATION IT 2055 JONCTION AUG, SON TOS
SAMPLE TEAM MEMBERS TRACY SCULLIAM, Par Weight	CARRIER/WAYBILL NO.

Date and Time

Collected

A1, 2, 3 Gravel 4 Soil	11/30/89 10:45 501	BrossTube	Cooplot to		
B1, 2,3					
C[23]					
12/23		+-+/			
E1,53 F1.23		Kur	Z64 4380 0303		
G1.234		1 1 1/	984683		
H1,2,3,4 318 So Livermore Ave (SANdy)	12:15	1 1 1	CONE 5441		
Livermore, CA		Cro	SS STREET - 3 ST.		
	STAL	y Roller SHE	TLENG		
Special Instructions: 24 hr turn area					
Possible Sample Hazards:	(TPHG	W/ BIX+E	Series		
Committee transfer describility bare and titles	all if any gues				
1. Relinquished By: Lacy Stulling 11/30/89 (12:30pm)3. Relinquished By:					
Received By: 3	80/89 16:50 Receiv	ed by:	·		
2. Relinquished By:	4. Relinq	uished By:			
Received By:	Receiv	red By:			



SOIL SAMPLE LOCATIONS

DECEMBER 5, 1989

SCALE 1= 23*

23

SITE MAP Shell Service Station 318 South Livermore Ave. Livermore, Ca.

AEGIS JOB NO. 89-041

REVIEWED BY:

DRAWN BY:Ed Bernard DATE:Dec.18,1989

DATE:



Aegis Environmental Consultants 801 Riverside Ave., Suite C Roseville, CA 95678 Attention: Tracy Schilling

Project: #89-041, Shell, Livermore

Enclosed are the results from 8 soil samples received at Sequoia Analytical on December 6,1989. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
9120384	Sail, 1A	12/5/89	EPA 5030/8015/8020 Lead
9120385	Soil, 2A	12/5/89	EPA 5030/8015/8020 Lead
9120386	Soil, 3A	12/5/89	EPA 5030/8015/8020 Lead
9120387	Soil, 4A	12/5/89	EPA 5030/8015/8020 Lead
9120388	Soil, 1B	12/5/89	EPA 5030/8015/8020 Lead
9120389	Soil, 2B	12/5/89	EPA 5030/8015/8020 Lead
9120390	Soil, 3B	12/5/89	EPA 5030/8015/8020 Lead
9120391	Soil, 4B	12/5/89	EPA 5030/8015/8020 Lead

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Vickie Tague ()
Project Manager

Aegis Environmental Consultants 801 Riverside Ave., Suite C Roseville, CA 95678

Attention: Tracy Schilling

Client Project ID: Matrix Descript:

Analysis Method:

First Sample #:

#89-041, Shell, Livermore Soil

EPA 5030/8015/8020

912-0384

nell, Livermore Sampled: Received:

Dec 5, 198 Dec 6, 198

Analyzed: Reported: Dec 7, 198 Dec 8, 198

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)	•
912-0384	1A	870	N.D.	0.17	0.87	16	
912-0385	2 A	3.8	N.D.	N.D.	N.D.	N.D.	
912-0386	3A	1.6	N.D.	N.D.	N.D.	N.D.	
912-0387	4A	N.D.	N.D.	N.D.	N.D.	N.D.	
912-0388	18	N.D.	N.D.	N.D.	N.D.	N.D.	
912-0389	28	1.6	N.D.	N.D.	N.D.	N.D.	
912-0390	38	N.D.	N.D.	N.D.	N.D.	N.D.	
912-0391	4B	1.3	N.D.	N.D.	N.D.	N.D.	

			-	 	
Detection Limits:	1.0	0.05	0.1	0.1	0.1

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague ()
Project Manager

Aegis Environmental Consultants 801 Riverside Ave., Suite C

Roseville, CA 95678 Attention: Tracy Schilling Client Project ID: Sample Descript: Analysis for:

First Sample #:

#89-041, Shell, Livermore Soil Lead

912-0384

Sampled: Received:

Dec 5, 198 Dec 6, 198

Extracted: Analyzed: Dec 7, 198 Dec 7, 198

Dec 8, 198 Reported:

LABORATORY ANALY	Lead	
•	0 1-	

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	
912-0384	1 A	0.25	4.8	
912-0385	2A	0.25	31	
912-0386	ЗА	0.25	5.4	
912-0387	4A	0.25	3.0	
912-0388	18	0.25	3.4	
912-0389	28	0.25	6.6	
912-0390	38	0.25	2.6	
912-0391	48	0.25	2.2	

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague Project Manager

CURPORATION /		CHAIN-OF-CUSTODY RECORD			, H/A Control No.	
1.		Livermore		C/C Control No. A 808		
		4: 89-041 LAB DESTINATION IT		- 2055 Junction Aug SAN		
SAMPLE TE	EAM MEMBERS TRACY Schul	ling		3/WAYBILL NO		
Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt	Disposal
IA	Below Mark Bottom	12/5/89 2:30	Soil	Brass	(Name and Date)	Record No.
ZA	1 Son-	P	1	13425		
3A						
4A						
IB					***	
ZB						
3B						
4B	V	3:30 _F	1			
ļ <u>.</u>	Shell Eng: Still	, <u>", ", ", ", ", ", ", ", ", ", ", ", ", "</u>			• 1	
	3	N KOLLET	S 1210/	ie Lundqu	st	
Special Instan	actions: 24 hr Tum ar	2 2 1 1 1	1-2222	7		
		ound Ma	J FLY SID	(TPH G 1)	BIX &E In sen	es) 4 Total
Special Instructions: 24 hr Turn around Modera 2015 (TPH G W BIX & E IN Serves) & Ic Possible Sample Hazards: Freeze for Further Analysis						
SIGNATURE	S: (Name, Company, Date and Time)					
1. Relinquish	ed By: (sacy Chilling 12	2/5/89 3:45P	M 3 Relingui	ished D		
Received E	ed By: lace Chilling To By: Brendy Acq's Ephine	01/100 am	Receive	d by:		
	ed By:					
	y:					
	a					

(415) 364-9600 • FAX (415) 364-9233

Aegis Environmental Consultants 801 Riserside Ave., Suite C Roseville, CA 95678 Attention: Pat Wright

Project: #89-041, Shell Livermore

Enclosed are the results from 1 soil sample received at Sequoia Analytical on Relogged 12/13. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
9120385	Soil, 2A	12/5/89	California LUFT Manual 127

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Vickie Tague Project Manager



Aegis Environmental Consultants 801 Riserside Ave., Suite C Roseville, CA 95678 Attention: Pat Wright

Client Project ID: Sample Descript: Analysis Method: #89-041, Shell, Livermore

: Soil

California LUFT Manual, 12/87

First Sample #: 912-0385

Sampled: Dec 5, 198 Received: Relogged 12/1

Analyzed: Reported:

Dec 13, 198 Dec 14, 198

ORGANIC LEAD

Sample Number		Sample Resuits mg/kg (ppm)
912-0385	0385 2A	0.061

Detection Limits:

0.05

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

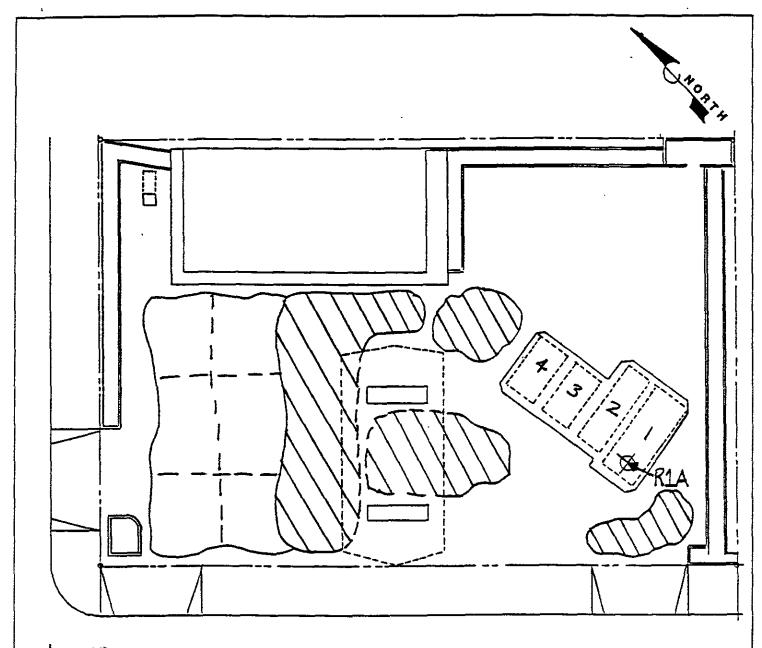
Vickie Tague Project Manager Please Note:

318 So. Livermore Ave., Livermore

PROJECT NAME PROJECT NUME PROJECT MANA BILL TO PURCHASE ORI	SHEU BER 89-0 AGER PAT SHEU DER NO.	LIVERMORE)4! WRIGHT	DATI LABO LABO SENI	E SAMPLES SHIPPED DESTINATION DRATORY CONTACT D LAB REPORT TO	R/A Control No. C/C Control No. 12/5/89 The first Advisory Assais Environne, COI RIVERSINE NES. Reseville, Aus 956 12/7/89
WIC 201	110cmare (1 110cmare (1 14380 (13	nore Ave/Cro	PRO.	JECT CONTACT JECT CONTACT PHONE NO. OGE 544	PAT WRIGHT (916) 782-2110
Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Pro	Van
IA	Soil	BRASS Cyl.	NIA	1122 805	gram Special Instructions
7 A	1	1		TOH G WED	4 E
2 A				1 2 4 1	A LOON
11		I.————————————————————————————————————			b Mod 8015
1 2					140/11H GW
28		!			BTXT Ein Serk
3B		<u> </u>			——
125	7		 		lotal Th
7.0		<u> </u>	<u> </u>	all SAMO	 \
$\frac{1}{n}$	la oxagana 1	0.00 D) 1. 0.		all samp	125
L	ld organiel	paclifor at pu	Macy	<u> </u>	
TURNAROUND TIM	E REQUIRÉD: (Rush mu Normal	ist be approved by the Project f	1 /		SZE FOR FURTHE
POSSIBLE HAZARD	IDENTIFICATION: (Ple	ase Indica∳e if sample(s) are ha	rardous materials and/or sus	specied to contain high levels of hazar	dous substances)
Nonhazard		ppte	Skin irritant	Highly Toxic	Olher
SAMPLE DISPOSAL;	(Planta indicate disposition -t	namota fallòudos sestimas de se un	abana da amarki No d	. W	(Please Specify)
	Return to Ckent	sample following analysis, Lab will o		Any QUESTIONS	5 PLEASE Call.
FOR LAB USE ONLY		Ву		Date/Time	

WHITE - Original, to accompany samples

•



- SOIL SAMPLE LOCATION

SAMPLE DATE **DECEMBER 11, 1989**

SCALE 1" = 23"

SITE MAP Shell Service Station 318 South Livermore Ave. Livermore, Ca.

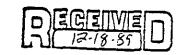
AEGIS JOB NO. 89-041

DRAWN BY:Ed Bernard DATE:Dec.18,1989 REVIEWED BY:

DATE:

23





Aegis Environmental Consultants 801 Riverside Ave., Suite C Roseville, CA 95678 Attention: Pat Wright

Project: #89-041, Livermore Shell

Enclosed are the results from 1 soil sample received at Sequoia Analytical on December 12,1989. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD	
9121333 A	Soil, R1A	12/11/89	EPA 7421	

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Vickie Tague Project Manager



(415) 364-9600 • FAX (415) 364-9233

Lab Number:

Aegis Environmental Consultants 801 Riverside Ave., Suite C

Roseville, CA 95678

Attention: Pat Wright

Client Project ID: #89-041, Sheil, Livermore

Sample Descript:

Soil, R1A

912-1333

Sampled:

Dec 11, 1989 Dec 12, 1989;

Received: Extracted:

Dec 13, 1989

Analyzed: Reported:

Dec 13, 1989: Dec 14, 1989

LABORATORY ANALYSIS

Analyte

Detection Limit mg/kg

Sample Results mg/kg

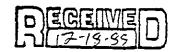
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie TaqueU Project Manager Please Note:

318 So. Livermore Ave., Livermore





Aegis Environmental Consultants 801 Riverside Ave., Suite C Roseville, CA 95678 Attention: Pat Wright

Project: #89-041, Livermore Shell

Enclosed are the results from 1 soil sample received at Sequoia Analytical on December 12,1989. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
9121333 A-B	Soil	12/11/89	EPA 5030/8015/8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Vickie Tague V Project Manager Aegis Environmental Consultants 801 Riverside Ave., Suite C Roseville, CA 95678

Client Project ID: Sample Descript:

#89-041, Livermore Shell Soil

Sampled: Dec 11, 1989: Received: Dec 12, 1989:

Analysis Method:

EPA 5030/8015/8020

Analyzed: Dec 12, 1989

Attention: Pat Wright

Lab Number:

912-1333

Reported:

Dec 14, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015/8020)

Analyte	Detection Limit mg/kg (ppm)		Sample Results mg/kg (ppm)
Low to Medium Boiling Point Hydrocarbons	1.0		N.D.
Benzene	0.05	***********	N.D.
Toluene	0.1	********************************	N.D.
Ethyl Benzene	0.1	***************************************	N.D.
Xylenes	0.1	*************************	N.D.

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Project Manager

Please Note:

318 S. Livermore Ave., Livermore

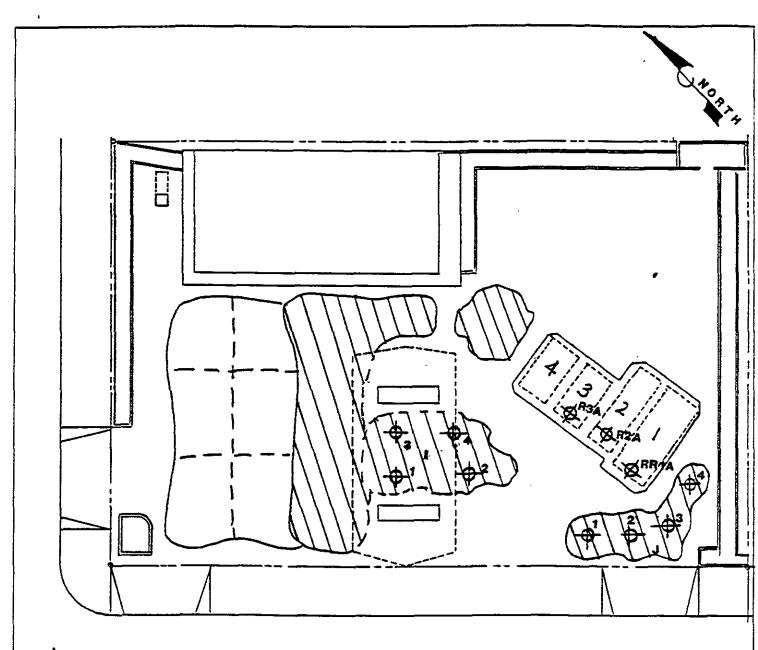
SEQUOIA ANALYTICAL

Chain of Custody Report

Address: 801	eville CA 956	L Carrot. Sorte C 38	Project Location Special Instruction NIC: 2	SHELL In: Livermo tions: 4380 984683	
Sample Trace Sample Collecti Date Trace Collecte Laboratory Delivere	cking on: Classification Firms od by: 2-/2-89 Time od by: d in Laboratory by:	11:45 C ling 2:30 a	318 S	Livermore ross Str Livermore ross Code NULL En STAN	cet: 325; CA 5441
		3 Work Days5	Work Days1	0 Work Days	7/2/333 _15 Work Days
Sample Description Sel (R4	Number/Type of Containers A) 2/Bross (yl.	Analyses Requested THG w	/eix¥e ys	in Sries

Chain of Custody

	THEIT OIL (,							/11/2
Project Nu	mber: 29-6	<u> </u>			Sam	pled	ву:	1	icit ,	Seh
Attention :	En: Livermore Det We 114/782-3	iaht		ລ		naro	und 8 hr 1 Wo 2 Wo 3 Wo 5 Wo	Stat	ays Days Days Days	<i>,</i>
Sample ID	Number/Type of Containers 2/Bross		STAGE	Wed. au						
·										•
	17 12/89	Q:4	Sp	m		'e/		CO	as	ke.
										24
					-					
Relinqu	ished by:	Dato	•	<u> </u>					1	



-SOIL SAMPLE LOCATIONS

SAMPLE DATE DECEMBER 12, 1989

SCALE 1" = 23'

0 23

SITE MAP
Shell Service Station
318 South Livermore Ave.
Livermore, Ca.

AEGIS JOB NO. 89-041

DRAWN BY:Ed Bernard DATE:Dec.18,1989 REVIEWED BY: DATE:

ORM! DI. VEMOV ISISCOPTS: INITIALIZATIONS - 5.405M

TO



FACSIMILE TRANSMISSION

Na	me:	1741	u	IKIC	511	
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		VICK	E	7A	60	E
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		Fax (41)	5) 364-	9233		
Dat	o:_/	418		•	2	
Nur	nher of	Page (inclu	الماة محالم		3	



Aegis Environmental Consultants 801 Riverside Ave., Suite C

Roseville, CA 95678 Attention: Pat Wright Client Project ID:

#89-041, Shell, Livermore, 318 So. Livermore Soil

Sampled: Received:

Dec 12, 1989 § Dec 13, 1989

Matrix Descript: Analysis Method:

EPA 5030/8015/8020

Analyzed:

Dec 13, 1989

First Sample #:

912-1487

Reported: Dec 18, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Numb ar	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzana mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
912-1487	RRIA	180	N.D.	N.D.	N.D.	0.35
912-1488	R2A	N.D.	N.D.	N.D.	N.D.	N.D.
912-1489	RSA	N.D.	N.D.	N.D.	N.D.	N.D.
9121490 A-D	11,2,3,4, Composite	12	N.D.	N.D.	N.D.	N.D.
9121491 A-D	J1,2,3,4, Composite	70	N.D.	N.D.	0.11	0.72

Í						
Detection Limits:	1.0	0.05	0.1	0.1	0.1	
			•	3. (V 1	

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague U Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive . Redwood City, CA 94083 (415) 364-9800 • FAX (415) 364-9233

Aegis Environmental Consultants 801 Riverside Ave., Suite C

Roseville, CA 95678 Attention: Pat Wright Cilent Project ID:

#89-041, Shell, Livermore, 318 So. Livermore

Sample Descript: 801 Analysis for: Lead First Sample #: 912-1487

Sampled: Received:

Dec 12, 1989 Dec 13, 1989

Extracted: Analyzed:

Dec 14, 1989

Reported:

Dec 14, 1989 Dec 18, 1989

LABORATORY ANALYSIS FOR-

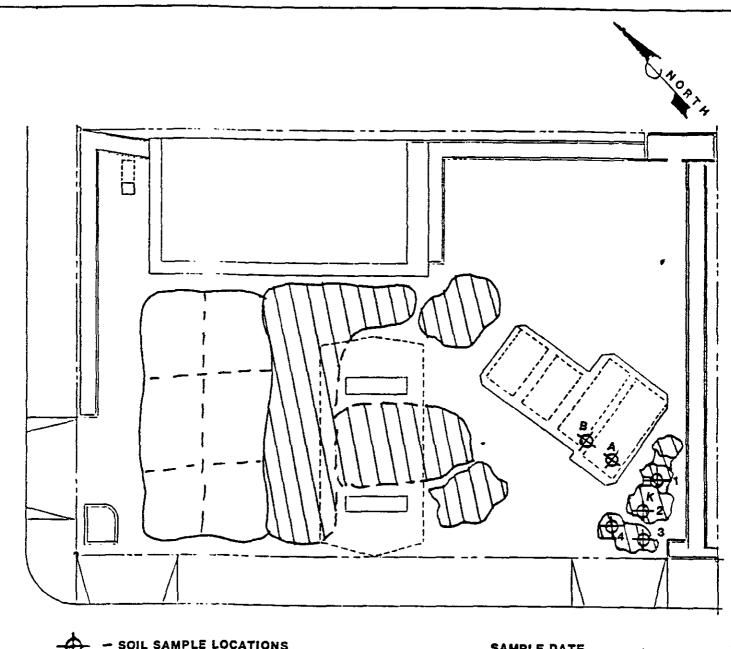
NALYSIS FOR:	Lead
Sample	

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
912-1487	RR1A	0.05	8.1
912-1488	RZA	0.05	8.1
912-1489	R3A	0.05	8.1
9121490 A-D	i1,2,3,4, Composite	0.05	13
9121491 A-D	J1,2,3,4, Composits	0.05	7.2

Analytee reported as N.D. were not present above the stated limit of detection,

SEQUOIA ANALYTICAL

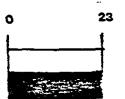
Vickie Tague (Project Manager



- SOIL SAMPLE LOCATIONS

SAMPLE DATE **DECEMBER 15, 1989**

SCALE 1" = 23'



SITE MAP Shell Service Station 318 South Livermore Ave. Livermore, Ca.

AEGIS JOB NO. 89-041

DRAWN BY:Ed Bernard DATE:Dec.18,1989 REVIEWED BY:

DATE:



FACSIMILE TRANSMISSION

10		A		•	
	Name:	CLA	RKE	OWE	70
	Company:_	7	AET	G/S	
	Fax #:	916	/786-	7830	
	·	/	,		
FRC	M				
		VIC	KIE	7A-G	UE
	SEQU	JOIA ANALYT	ICAL LABORA	TORY	
		Fax (415)	364-9233		
	Date:	12/19		دن ۔	
	Number of F	eges (includii	ng this page):-		



SEQUOIA ANALYTICAL

680 Chesapeake Drive . Redwood City; CA 94083 (415) 364-9600 • FAX (415) 364-9233

Aegis Environmental Consultants 801 Riverside Ave., Suite C

Roseville, CA 95678

Attention: Clarke Owen

Client Project ID:

#89-041, Livermore, Sheil

Sample Descript: Boil Analysis for: Lead

First Sample #:

912-2284 A-D

Sampled: Received:

Dec 15, 1989 Dec 18, 1989

Extracted: Analyzed:

Dec 18, 1989 Dec 18, 1989

Reported:

Dec 19, 1989

Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sampie Result mg/kg
9122284 A-D	K1,2,3,4, Composite	0.05	14
912-2285	A	0.05	11
9 12-2286	8	0.05	12

Analytes reported as N.D. were not present above the stated limit of detection.

SECUCIA ANALYTICAL

Vickle Tague Project Manager Please Note: 318 So. Livermore, Livermore

9122284.AAA <1>



SEQUOIA ANALYTICAL

680 Chesapeake Drive - Redwood City, CA 94063 (415) 364-9600 • FAX (415) 384-9233

Aegis Environmental Consultants 801 Riverside Ave., Suite C

Client Project iD: Matrix Descript:

#89-041, Livermore, Shell Soll

Sampled: Dec 15, 1989; Received: Dec 18, 1989

Roseville, CA 95678 Attention: Clarke Owen Analysis Method: First Sample #:

EPA 5030/8015/8020 912-2284

Analyzed: Dec 18, 1989 Reported: Dec 19, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbona mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)	
9122284 A-D	K1,2,3,4, Composite	530	0.32	0.84	4.2	24	
912-2285	A	12	0.090	N.D.	N.D.	0.41	
912-2286	8	13	0.11	N.D.	N.D.	0.13	

Detection Limits:	1.0	0.05	0.1	0.1	0.1	

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickle Tague U Project Manager Please Note: 318 So. Livermore, Livermore

INTE TECH CORP	RNATIONAL SEINOLOGY FEE	guoi A HMALY Swood City RI	tical Equest fo	R ANAL	YSIS	R/A Con	ntrol No. B 85084
.∕ROJECT NAME	LIVERAG	DEE SHELL		DATE S	AMPLES SHIPPED	12/12	/89
PROJECT NUME				LAB DE	STINATION	Signi	H MALYLICAL
PROJECT MANA	AGER TEXT N	IKIGHT		LABOR/	ATORY CONTACT	Vicki	Taque
BILL TO	SHELL			SEND L	AB REPORT TO	AEGIS	ENVIEN. CONSULT
				Shell	Eng:		wer-xle Auf Suit
				NR.	Stall ROLLER	Rosevi	
PURCHASE ORD				DATE R	EPORT REQUIRED		
WIC: 204 -	4380-0303	318 So. Livey Cross St.: 3	more. Ave		CT CONTACT	TBACU	Schilling
AFE: 1864	<i>°</i> 83	Cross St. 3	^{co} 5 1 .	PROJEC	CT CONTACT PHONE NO.	916/7	9Z-Z110
Exp Code: Sample No.	Sample Type	Livermore, CA		· · · · · · · · · · · · · · · · · · ·		(0/1	- ally yorstonic
RRIA	Soil	Sample Volume 2' x 6' Estuss	Preservativ	ve	Requested Testing Prog		Special Instructions
122 A	2011	2×6 Diuss	N/A	<u> </u>	Mod 8015 of BI)	116,	
1721							
11121					4 7421 (Tot	0/1/6)	
[1,2,3,4]							Composi-C
11, 6, 3,4	<u> </u>			 -	<u>-</u>		Composite
				<u></u>			
							
							
							
TURNAROUND TIM	Normal	•	ush	(Subject to	rush surcharge)		
POSSIBLE HAZARD	•				ted to contain high levels of hazard	ous substance:	3)
Nonhezard	- Fiamma	ble	Skin irritani	_	Highly Toxic		Other(Please Specify)
SAMPLE DISPOSAL:	(Please indicate disposition of	sample following analysis. Lab will ch	narge for packing, ship	pping, and dis	posal)		· •·
	Return to Client	Disposal by Lab _X_			•		
OR LAB USE ONLY		By			Date/Time		



Client No: 18.1 Client Name: Aegis Environmental Cons. NET Log No: 9363

Date: 01-24-90

Page: 2

NET Pacific, Inc.

Descriptor,	Lab	No.	and	Results	į
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		C1-4 comp 01-19-90	#2 ben.isl disp. 01-19-90	#3 ben.add-on disp. 01-19-90	
Parameter	Reporting Limit	44168	44169	44170	Units
Lead (EPA 7421) PETROLEUM HYDROCARBONS VOLATILE (SOIL) DILUTION FACTOR * DATE ANALYZED	0.2	50 20 01-23-90	3.3 1 01-23-90	3.3 1 01-22-90	mg/Kg
METHOD GC FID/5030 as Gasoline	1	160	6.2	ND	mg/Kg
METHOD 8020 Benzene Ethylbenzene Toluene Xylenes, total	2.5 2.5 2.5 2.5	 60 550 920 4,800	ND 22 21 250	ND ND 3.9 6.4	ug/Kg ug/Kg ug/Kg ug/Kg



Client No: 18.1 Client Name: Aegis Environmental Cons. NET Log No: 9363

Date: 01-24-90

Page: 3

NET Pacific, Inc.

Descriptor, Lab No. and Results

	7	#1B bin. isl.disp. 01-19-90	#1D piping tel 01-19-90	; #1C 01-19-90		
Parameter	Reporting Limit	44171	44172	44173	Units	
Lead (EPA 7421) PETROLEUM HYDROCARBONS VOLATILE (SOIL) DILUTION FACTOR * DATE ANALYZED METHOD GC FID/5030	0.2	16 1 01-22-90	38 1 01-22-90	6.4 1 01-22-90	mg/Kg	
as Gasoline METHOD 8020	1	ND 	4.7	ND 	mg/Kg	
Benzene Ethylbenzene Toluene Xylenes, total	2.5 2.5 2.5 2.5	ND ND 3.1 4.6	2.6 3.7 6.6 39	ND ND ND 6.4	ug/Kg ug/Kg ug/Kg ug/Kg	



Client No: 18.1 Client Name: Aegis Environmental Cons. NET Log No: 9363

Date: 01-24-90

Page: 4

NET Pacific. Inc

Descriptor, Lab No.	and	Results
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Parameter	Reporting Limit	#1A 01-19-90 44174	#2 piping tel 01-19-90 44175	ventline tel 01-19-90 44176	Units
Lead (EPA 7421) PETROLEUM HYDROCARBONS VOLATILE (SOIL) DILUTION FACTOR * DATE ANALYZED METHOD GC FID/5030 as Gasoline METHOD 8020 Benzene Ethylbenzene Toluene Xylenes, total	0.2 1 2.5 2.5 2.5 2.5	1.7 1 01-22-90 ND ND ND ND ND 3.7	28 1 01-22-90 16 71 730 1,300 3,000	90 1 01-22-90 ND ND ND 5.7	mg/Kg mg/Kg ug/Kg ug/Kg ug/Kg

Phone (916) 782 2110 FAX (916) 786-7830

AEGIS Environmental Consultants, Inc. Sample Identification/Field Chain of Custody Record

Send results to:

Aegis Environmental 801 Riverside, Suite C Roseville, CA 95678

Site Address: 318 So. LIVERMORE AVENUE					For Shell Projects Only WIC: 204-4380-0303		
AEGIS Project #: 89-041					AFE: 98/0683		
Shipped By: AEGIS ENVIRONMENTAL CONSUltants, TNC-TRANSHILLING					-CT/DL: 5441		
Shipped To: Soguois Analytical						Diane Lundau	اخار
Project Manager PAT	1 / /			····	_	erials Suspected? (yes/no)	
Sampling				Sample	No. of	Analysis	
Point	Location	Field ID#	<u>Date</u>	Туре	Containers	Required	
C1, CZ, C3, C4-Com	Poste Stockpited Solls	C1, 2, 3, 4	1/18/90	Soil	1	TPHG & BIXE	ELA
beneath Islan	d Dispenser	2	Ų	11	11	* Total 76	_] =
U	Add-on dispenser	3	н	11	t)	t)	
"	Dispenser	<i>IB</i>	11	11	11	U	
Piping Tee	Closer to Building Isl.	ID	u	и	Ŋ	11	
Following th	er Near Bldg Isl.	IC_	ıt.	11	10	l1	
Discolaration	S NEAR Bldg Isl	/A	И	11	11	l)	
Smell-		2 piping TEE	//	А	11	11	
18" below Grade	3intoZin Hotconory	Ventline Tee;	1_1_	1 11	'1	17	
Sampler(s) (signature)	acy Schilling	<u> 24 Navi</u>	R LURN I	4ROUNL	.		
Field ID Relinquished By (signature) Received By (signature)				Date	e/Time	Comments	
007	hay Schilling	Drane Krug	w	1/19/90	2:08pm		
	_				Ca	DIZIBIZ to N	/
Sealed for shipment by: (signature) Lacy Schulling Date/Time: 1/18/90 Shipment by:				Shipment Me	thod:	<i>→</i> *	۽ حيون
Received for Lab by: (signature) Date/Time:				Comments:			
	· •			_			