PACIFIC
ENVIRONMENTAL
GROUP, INC.

August 18, 1994
Project 286-001.1A

Ms. Elsie K. Matsuno
Mendelson and Brown
1040 Marina Village Parkway, Suite B
Alameda, California 94501

Re: Quarterly Report - Third Quarter 1994
Estate of John B. Henry Property
1726 Park Street at Eagle Avenue
Alameda, California

Dear Ms. Matsuno:

This letter presents the results of the third quarter 1994 groundwater sampling and analytical event conducted by Pacific Environmental Group, Inc. on July 25, 1994, at the site referenced above. Groundwater elevation data are presented in Table 1 and shown on Figure 1. Groundwater analytical data are presented in Tables 2 through 4 and shown on Figure 2. The certified analytical report and chain-of-custody documentation are presented as Attachment A. Field and laboratory procedures are presented as Attachment B.

If you have any questions regarding the contents of this letter, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Steven E. Krcik
Senior Geologist
RG 4976

REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 4976
8/96/96
STATE OF CALIFORNIA

2025 Gateway Place, Suite 440, San Jose, California 95110 (408) 441-7500 FAX (408) 441-7539

Attachments:
Table 1 - Groundwater Elevation Data
Table 2 - Groundwater Analytical Data - Total Petroleum Hydrocarbons (TPH as Gasoline and, BTEX Compounds)
Table 3 - Groundwater Analytical Data - Total Petroleum Hydrocarbons (TPH as Diesel, and Oil and Grease
Table 4 - Groundwater Analytical Data - Volatile Organic Compounds
Figure 1 Groundwater Elevation Contour Map
Figure 2- TPH-g/Benzene/TPH-d Concentration Map
Attachment A - Certified Analytical Report and Chain-of-Custody Documentation
Attachment B - Field and Laboratory Procedures

Table 1
Groundwater Elevation Data

Estate of John B. Henry Property
1726 Park Street at Eagle Avenue
Alameda, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	05/12/92	13.57	6.16	7.41
	07/28/92		6.68	6.89
	08/17/92		6.77	6.80
	09/21/92		6.96	6.61
	01/14/93		5.38	8.19
	09/17/93		7.42	6.15
	01/31/94		6.35	7.22
	02/14/94	16.76	6.59	10.17
	04/22/94		6.57	10.19
	07/25/94		6.71	10.05
MW-2	05/12/92	14.35	5.94	8.41
	07/28/92		6.80	7.55
	08/17/92		6.94	7.41
	09/21/92		7.19	7.16
	01/14/93		4.82	9.53
	09/17/93		7.64	6.71
	01/31/94		6.50	7.85
	02/14/94	17.51	6.38	11.13
	04/22/94		6.50	11.01
	07/25/94		6.76	10.75
MW-3	02/14/94	17.45	6.58	10.87
	04/22/94		6.72	10.73
	07/25/94		6.95	10.50
MW-4	02/14/94	18.08	6.70	11.38
	04/22/94		6.86	11.22
	07/25/94		7.23	10.85
MW-5	02/14/94	17.19	7.33	9.86
	04/22/94		6.69	10.50
	07/25/94		6.96	10.23
MW-6	02/14/94	16.63	6.61	10.02
	04/22/94		6.69	9.94
	07/25/94		6.80	9.83
MW-7	02/14/94	16.24	6.55	9.69
	04/22/94		6.56	9.68
	07/25/94		6.59	9.65
MW-8	02/14/94	16.00	6.41	9.59
	04/22/94		6.43	9.57
	07/25/94		6.44	9.56

MSL = Mean sea level
TOC = Top of casing

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Estate of John B. Henry Property
1726 Park Street at Eagle Avenue
Alameda, California

Sample ID	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-1	05/11/92	410	<0.5	1.0	4.2	11
	08/13/92	260	<0.5	0.6	4.2	4.0
	01/14/93	270	<0.5	<0.5	1.1	6.0
	05/10/93	450	1.1	1.1	8.7	15
	09/17/93	140	<0.5	<0.5	3.5	5.3
	01/31/94	140	<0.5	<0.5	6.0	1.7
	04/22/94	790	1.9	4.5	11	35
	07/25/94	550	1.2	1.2	8.9	11
MW-2	05/11/92	<50	<0.5	<0.5	<0.5	<0.5
	08/13/92	<50	<0.5	<0.5	<0.5	<0.5
	01/14/93	<50	<0.5	<0.5	<0.5	<0.5
	05/10/93	<50	<0.5	<0.5	<0.5	<0.5
	09/17/93	<50	<0.5	<0.5	<0.5	<0.5
	01/31/94	<50	<0.5	<0.5	<0.5	<0.5
	04/22/94	<50	<0.5	<0.5	<0.5	<0.5
	07/25/94	<50	0.98	1.4	<0.5	1.3
MW-3	02/15/94	<50	<0.5	<0.5	<0.5	<0.5
	04/22/94	<50	<0.5	<0.5	<0.5	<0.5
	07/25/94	<50	<0.5	0.65	<0.5	<0.5
MW-4	02/15/94	<50	<0.5	<0.5	<0.5	<0.5
	04/22/94	<50	<0.5	2.5	<0.5	<0.5
	07/25/94	<50	<0.5	<0.5	<0.5	<0.5
MW-5	02/15/94	<50	<0.5	<0.5	<0.5	<0.5
	04/22/94	1,600	4.1	<0.5	22	230
	07/25/94	400	1.3	0.77	2.5	19
MW-6	02/15/94	1,100	120	2.2	13	100
	04/22/94	3,800	360	25	420	27
	07/25/94	1,100	110	5.1	190	13
MW-7	02/15/94	14,000	3.5	95	4,000	650
	04/22/94	3,400	8.4	6.7	110	600
	07/25/94	2,800	5.4	7.8	100	300
MW-8	02/15/94	1,300	15	<0.5	110	23
	04/22/94	500	5.0	<0.5	17	20
	07/25/94	260	11	0.57	1.5	1.8

ppb = Parts per billion

Table 3
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Diesel and Oil and Grease)

Estate of John B. Henry Property
1726 Park Street at Eagle Avenue
Alameda, California

Sample ID	Date Sampled	TPH as Diesel (ppb)	Oil and Grease (ppb)
MW-1	05/11/92	96	NA
	08/13/92	<50	NA
	01/14/93	<50	NA
	05/10/93	450	<5
	09/17/93	160	NA
	01/31/94	<50	<50
	04/22/94	<50	<50
	07/25/94	310	<200
MW-2	05/11/92	<50	<5
	08/13/92	<50	<5
	01/14/93	57	<5
	05/10/93	<50	<5
	09/17/93	<50	<5
	01/31/94	<50	<50
	04/22/94	<50	<50
	07/25/94	<50	<200
MW-3	04/22/94	<50	<50
	07/25/94	<50	<200
MW-4	02/15/94	<50	<50
MW-5	03/08/94	<50	<50
	04/22/94	<50	<50
	07/25/94	120	<200

ppb = Parts per billion
NA = Not analyzed

N

PARK STREET

SEWER MAIN
(~7.5' bgs)

APPROACH | SIDEWALK | APPROACH

MW-7
(9.65)

MW-1
(10.05)

PRODUCT
ISLAND

FORMER UNDERGROUND
FUEL STORAGE
TANK COMPLEX

MW-3
(10.50)

MW-2
(10.75)

MW-6
(9.83)

MW-8
(9.56)

APPROACH

SIDEWALK

STATION
BUILDING

MW-5
(10.23)

MW-4
(10.85)

10.00

10.50

FORMER
WASTE
OIL TANK

EAGLE AVENUE

SIDEWALK

SIDEWALK

LEGEND

MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

(10.50) GROUNDWATER ELEVATION IN FEET - MSL, 7-25-94

10.00 GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 7-25-94

APPROXIMATE DIRECTION
OF GROUNDWATER FLOW

APPROXIMATE GRADIENT = 0.01 ft/ft

PACIFIC
ENVIRONMENTAL
GROUP, INC.

SCALE

0 20 40 FEET

ESTATE OF JOHN B. HENRY
1726 Park Street at Eagle Avenue
Alameda, California

GROUNDWATER ELEVATON CONTOUR MAP

FIGURE
1
PROJECT:
286-001.1A

08/10/94

N

PARK STREET

SEWER MAIN
(~7.5' bgs)

APPROACH

SIDEWALK

APPROACH

MW-7
2,800/5.4

MW-1
550/1.2/310

PRODUCT
ISLAND

FORMER UNDERGROUND
FUEL STORAGE
TANK COMPLEX

MW-3
ND/ND

MW-2
ND/0.98

MW-6
1,100/110

APPROACH

MW-8
260/11

STATION
BUILDING

SIDEWALK

MW-5
400/1.3/120

MW-4
ND/ND

FORMER
WASTE
OIL TANK

EAGLE AVENUE

SIDEWALK

SIDEWALK

LEGEND

MW-1 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

260/11 TPH-g/BENZENE/TPH-d CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 7-25-94

ND NOT DETECTED

APPROXIMATE DIRECTION
OF GROUNDWATER FLOW

PACIFIC
ENVIRONMENTAL
GROUP, INC.

SCALE
0 20 40 FEET

ESTATE OF JOHN B. HENRY
1726 Park Street at Eagle Avenue
Alameda, California

TPH-g/BENZENE/TPH-d CONCENTRATION MAP

FIGURE:
2
PROJECT:
286-001.1A

08/16/94

ATTACHMENT A

CERTIFIED ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

ANALYTICAL REPORT

B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G94-07-394

Received: 26 JUL 94

Mailed: AUG 1 [illegible]

Ms. Maree Doden
Pacific Environmental Group
2025 Gateway Place, #440
San Jose, California 95110

Purchase Order: 25820

Requisition: 618571072
Project: 286001.1A

REPORT OF ANALYTICAL RESULTS

LOG NO	07-394-1	07-394-2	07-394-3
DATE SAMPLED	25 JUL 94	25 JUL 94	25 JUL 94
SAMPLE DESCRIPTION	MW-1 (15')	MW-2 (15')	MW-3 (15')
GROUND WATER			
Oil & Grease,IR(EPA-413.2), mg/L	<0.2	<0.2	<0.2
TPH-diesel/CADHS/3520			
Date Analyzed	08/08/94	08/08/94	08/08/94
Date Extracted	08/01/94	08/01/94	08/01/94
Dilution Factor, Times 1	1	1	1
TPH (as diesel), mg/L	0.31	<0.05	<0.05

B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G94-07-394

Received: 26 JUL 94

Ms. Maree Doden
Pacific Environmental Group
2025 Gateway Place, #440
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Project: 286001.1A

REPORT OF ANALYTICAL RESULTS

LOG NO	07-394-1	07-394-2	07-394-3
DATE SAMPLED	25 JUL 94	25 JUL 94	25 JUL 94
SAMPLE DESCRIPTION	MW-1 (15')	MW-2 (15')	MW-3 (15')
GROUND WATER			
TPH-gas/BTEX (CADHS/8020)			
Date Analyzed	08/04/94	08/04/94	08/04/94
Dilution Factor, Times 1	1	1	1
Benzene, ug/L	1.2	0.98	<0.5
Toluene, ug/L	1.2	1.4	0.65
Ethylbenzene, ug/L	8.9	<0.5	<0.5
Total Xylene Isomers, ug/L	11	1.3	<0.5
TPH (as Gasoline), ug/L	550	<50	<50

B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G94-07-394

Received: 26 JUL 94

Ms. Maree Doden
Pacific Environmental Group
2025 Gateway Place, #440
San Jose, California 95110

Purchase Order: 25820

Requisition: 618571072
Project: 286001.1A

REPORT OF ANALYTICAL RESULTS

LOG NO		07-394-4	
DATE SAMPLED		25 JUL 94	
SAMPLE DESCRIPTION		MW-5 (15')	
GROUND WATER			
Oil & Grease,IR(EPA-413.2), mg/L		<0.2	
TPH-diesel/CADHS/3520			
Date Analyzed		08/08/94	
Date Extracted		08/01/94	
Dilution Factor, Times 1		1	
TPH (as diesel), mg/L		0.12	

B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G94-07-394

Received: 26 JUL 94

Ms. Maree Doden
Pacific Environmental Group
2025 Gateway Place, #440
San Jose, California 95110

Purchase Order: 25820

Requisition: 618571072
Project: 286001.1A

REPORT OF ANALYTICAL RESULTS

LOG NO	07-394-4
DATE SAMPLED	25 JUL 94
SAMPLE DESCRIPTION	MW-5 (15')
GROUND WATER	
TPH-gas/BTEX (CADHS/8020)	
Date Analyzed	08/05/94
Dilution Factor, Times 1	1
Benzene, ug/L	1.3
Toluene, ug/L	0.77
Ethylbenzene, ug/L	2.5
Total Xylene Isomers, ug/L	19
TPH (as Gasoline), ug/L	400

B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G94-07-394

Received: 26 JUL 94

Ms. Maree Ooden
Pacific Environmental Group
2025 Gateway Place, #440
San Jose, California 95110

Purchase Order: 25820

Requisition: 618571072
Project: 286001.1A

REPORT OF ANALYTICAL RESULTS

LOG NO	07-394-5	07-394-6	07-394-7
DATE SAMPLED	25 JUL 94	25 JUL 94	25 JUL 94
SAMPLE DESCRIPTION	MW-4 (15')	MW-6 (15')	MW-7 (15')
GROUND WATER			
TPH-gas/BTEX (CADHS/8020)			
Date Analyzed	08/05/94	08/05/94	08/05/94
Dilution Factor, Times 1	1	1	1
Benzene, ug/L	<0.5	110	5.4
Toluene, ug/L	<0.5	5.1	7.8
Ethylbenzene, ug/L	<0.5	190	100
Total Xylene Isomers, ug/L	<0.5	13	330
TPH (as Gasoline), ug/L	<50	1100	2800

B C Analytical

1085 Shary Circle
Concord, CA 94518
510/825-3894
Fax: 510/825-3924

LOG NO: G94-07-394

Received: 26 JUL 94

Ms. Maree Doden
Pacific Environmental Group
2025 Gateway Place, #440
San Jose, California 95110

Purchase Order: 25820

Requisition: 618571072
Project: 286001.1A

REPORT OF ANALYTICAL RESULTS

LOG NO	07-394-8	07-394-9
DATE SAMPLED	25 JUL 94	25 JUL 94
SAMPLE DESCRIPTION	MW-8 (15')	TB
GROUND WATER		
TPH-gas/BTEX (CADHS/8020)		
Date Analyzed	08/05/94	08/04/94
Dilution Factor, Times 1	1	1
Benzene, ug/L	11	<0.5
Toluene, ug/L	0.57	<0.5
Ethylbenzene, ug/L	1.5	<0.5
Total Xylene Isomers, ug/L	1.8	<0.5
TPH (as Gasoline), ug/L	260	<50

Marvin Katz/Karel Detterman
1726 Park St., Alameda
Alameda County

James C. Hein, Laboratory Director

: ORDER PLACED FOR CLIENT: Pacific Environmental Group 9407394 :
: BC ANALYTICAL : GLEN LAB : 16:29:36 11 AUG 1994 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9407394*1	MW-1 (15')	IR.O&G	07.28.94	413.2	533-17	9474	7772
		DIESEL.3520.TES	08.08.94	8015M	536-01	94183	7325
		GAS.BTX.TESNC	08.04.94	8015M.TX	536-21	94104	8042
9407394*2	MW-2 (15')	IR.O&G	07.28.94	413.2	533-17	9474	7772
		DIESEL.3520.TES	08.08.94	8015M	536-01	94183	7325
		GAS.BTX.TESNC	08.04.94	8015M.TX	536-21	94104	8042
9407394*3	MW-3 (15')	IR.O&G	07.28.94	413.2	533-17	9474	7772
		DIESEL.3520.TES	08.08.94	8015M	536-01	94183	7325
		GAS.BTX.TESNC	08.04.94	8015M.TX	536-21	94104	8042
9407394*4	MW-5 (15')	IR.O&G	07.28.94	413.2	533-17	9474	7772
		DIESEL.3520.TES	08.08.94	8015M	536-01	94183	7325
		GAS.BTX.TESNC	08.05.94	8015M.TX	536-21	94104	8042
9407394*5	MW-4 (15')	GAS.BTX.TESNC	08.05.94	8015M.TX	536-21	94104	8042
9407394*6	MW-6 (15')	GAS.BTX.TESNC	08.05.94	8015M.TX	536-21	94104	8042
9407394*7	MW-7 (15')	GAS.BTX.TESNC	08.05.94	8015M.TX	536-21	94104	8042
9407394*8	MW-8 (15')	GAS.BTX.TESNC	08.05.94	8015M.TX	536-21	94104	8042
9407394*9	TB	GAS.BTX.TESNC	08.04.94	8015M.TX	536-21	94104	8042

***

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

ORDER QC REPORT: Definitions and Terms

BCA

Accuracy	The ability of a procedure to determine the "true" concentration of an analyte.
Precision	The reproducibility of a procedure demonstrated by the agreement between analyses performed on either duplicates of the same sample or a pair of duplicate spikes.
Batch	A group of twenty samples or less, of similar matrix type, prepped together or analyzed together if no sample preparation is required, under the same conditions and with the same reagents. The batch must include a method blank, LCS and matrix QC.
Laboratory Control Standard (LCS)	A blank that is spiked with a known amount of analyte and subjected to the same procedures as the samples. The LCS indicates the accuracy of the analytical method. It also serves to double-check the calibration because it is prepared from a different source than the standard used to calibrate the instrument.
Matrix QC	Quality control performed on actual client samples. The matrix spike is a client's sample spiked with a known amount of analyte. For most analyses, the laboratory performs matrix spikes in duplicate (duplicate spikes).
Method Blank	A sample that contains no analyte. For water analysis, organic-free or deionized water is used. For solids analysis, analyte-free solvent is used. The method blank serves to measure contamination associated with laboratory storage, preparation or instrumentation.
Batch Number	Numeric designation for a batch of samples and the associated QC. The batch number sequence is unique for each determination.
LC Result	Laboratory result of an LCS analysis.
LT Result	Expected result, or true value, of the LCS analysis.
Percent Recovery	The percentage of analyte recovered. For LCS, the percent recovery calculation is: $LC/LT \times 100$
LC1, LC2 Result	Result of analyzing two separately prepared LCSs; used to determine precision.
R1, R2 Result	Result of analyzing replicate aliquots of a sample, with R1 indicating the first analysis of the sample and R2 its corresponding duplicate; used to determine precision.
S1, S2 Result	Result of the analysis of replicate spiked aliquots, with S1 indicating one spike of the sample and S2 the second spike; used to determine precision and accuracy.
Relative Percent Difference (RPD)	Calculated using one of the following: $\frac{\lvert LC1 - LC2\rvert \times 100}{(LC1 + LC2) \div 2}$ $\frac{\lvert R1 - R2\rvert \times 100}{(R1 + R2) \div 2}$ $\frac{\lvert S1 - S2\rvert \times 100}{(S1 + S2) \div 2}$
S1, S2 Recovery	The percentage of analyte recovered. The percent recovery calculation is: S1 Recovery: $\frac{(S1 - R1)}{(True - R1)} \times 100$ S2 Recovery: $\frac{(S2 - R1)}{(True - R1)} \times 100$
True Value	The theoretical, or expected, result of a spike sample analysis.
NC Flag	Indicates that the spike recovery was not calculated due to high sample concentration relative to the amount of spike added.
Q Flag	Indicates that the quality control measurement is outside the specified control limits.
Blank Result	Laboratory result of analysis of the method blank.
Reporting Detection Limit (RDL)	BCA-assigned limit based on; but not the same as, method detection limits (MDLs) determined using EPA guidelines. Sample RDLs may differ from the blank RDL if the samples were diluted.

BC ANALYTICAL

ORDER QC REPORT FOR G9407394

DATE REPORTED : 08/11/94

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER		DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. E413.2/O&G	C4071862*1						
Date Analyzed		07.28.94	9474	07/28/94	07/28/94	Date	N/A
Date Calibrated		07.28.94	9474	07/28/94	07/28/94	Date	N/A
Date Extracted		07.28.94	9474	07/28/94	07/28/94	Date	N/A
Oil & Grease,IR(EPA-413.2)		07.28.94	9474	2.20	2.56	mg/L	86
2. TPH-diesel/CADHS/3520	C4081249*1						
Date Analyzed		08.08.94	94183	08/08/94	08/08/94	Date	N/A
Date Extracted		08.08.94	94183	08/01/94	08/01/94	Date	N/A
TPH (as diesel)		08.08.94	94183	0.88	1.00	mg/L	88
Napthalene reported		08.08.94	94183	0.0570	0.0600	mg/L	95
Napthalene theoretical		08.08.94	94183	0.0600	0.0600	mg/L	100
3. TPH-diesel/CADHS/3520	C4081248*1						
Date Analyzed		08.08.94	94183	08/08/94	08/08/94	Date	N/A
Date Extracted		08.08.94	94183	08/01/94	08/01/94	Date	N/A
TPH (as diesel)		08.08.94	94183	1.08	1.00	mg/L	108
Napthalene reported		08.08.94	94183	0.0595	0.0600	mg/L	99
Napthalene theoretical		08.08.94	94183	0.0600	0.0600	mg/L	100
4. TPH-gas/BTEX (CADHS/80	C408927*1						
Date Analyzed		08.04.94	94104	08/04/94	08/04/94	Date	N/A
Benzene		08.04.94	94104	23.0	21.9	ug/L	105
Toluene		08.04.94	94104	84.8	84.9	ug/L	100
Ethylbenzene		08.04.94	94104	17.0	18.4	ug/L	92
Total Xylene Isomers		08.04.94	94104	106	96.7	ug/L	110
TPH (as Gasoline)		08.04.94	94104	984	1000	ug/L	98
a,a,a-Trifluorotoluene Reported		08.04.94	94104	53.6	50.0	ug/L	107
a,a,a-Trifluorotoluene Theoretic		08.04.94	94104	50.0	50.0	ug/L	100
5. TPH-gas/BTEX (CADHS/80	C408928*1						
Date Analyzed		08.05.94	94104	08/05/94	08/05/94	Date	N/A
Benzene		08.05.94	94104	24.7	21.9	ug/L	113
Toluene		08.05.94	94104	91.9	84.9	ug/L	108
Ethylbenzene		08.05.94	94104	18.1	18.4	ug/L	98
Total Xylene Isomers		08.05.94	94104	113	96.7	ug/L	117
TPH (as Gasoline)		08.05.94	94104	1110	1000	ug/L	111
a,a,a-Trifluorotoluene Reported		08.05.94	94104	54.7	50.0	ug/L	109
a,a,a-Trifluorotoluene Theoretic		08.05.94	94104	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9407394

DATE REPORTED : 08/11/94

ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	LC1 RESULT	LC2 RESULT	UNIT	RELATIVE % DIFF
1. TPH-diesel/CADHS/3520							
Date Analyzed		08.08.94	94183	08/08/94	08/08/94	Date	N/A
Date Extracted		08.08.94	94183	08/01/94	08/01/94	Date	N/A
TPH (as diesel)		08.08.94	94183	0.88	1.08	mg/L	20
Napthalene reported		08.08.94	94183	0.0570	0.0595	mg/L	4
Napthalene theoretical		08.08.94	94183	0.0600	0.0600	mg/L	0
2. TPH-gas/BTEX (CADHS/80							
Date Analyzed		08.04.94	94104	08/04/94	08/05/94	Date	N/A
Benzene		08.04.94	94104	23.0	24.7	ug/L	7
Toluene		08.04.94	94104	84.8	91.9	ug/L	8
Ethylbenzene		08.04.94	94104	17.0	18.1	ug/L	6
Total Xylene Isomers		08.04.94	94104	106	113	ug/L	6
TPH (as Gasoline)		08.04.94	94104	984	1110	ug/L	12
a,a,a-Trifluorotoluene Reported		08.04.94	94104	53.6	54.7	ug/L	2
a,a,a-Trifluorotoluene Theoretic		08.04.94	94104	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9407394

DATE REPORTED : 08/11/94

ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	LC1 RESULT	LC2 RESULT	UNIT	RELATIVE % DIFF
1. TPH-diesel/CADHS/3520							
Date Analyzed		08.08.94	94183	08/08/94	08/08/94	Date	N/A
Date Extracted		08.08.94	94183	08/01/94	08/01/94	Date	N/A
TPH (as diesel)		08.08.94	94183	0.88	1.08	mg/L	20
Napthalene reported		08.08.94	94183	0.0570	0.0595	mg/L	4
Napthalene theoretical		08.08.94	94183	0.0600	0.0600	mg/L	0
2. TPH-gas/BTEX (CADHS/80							
Date Analyzed		08.04.94	94104	08/04/94	08/05/94	Date	N/A
Benzene		08.04.94	94104	23.0	24.7	ug/L	7
Toluene		08.04.94	94104	84.8	91.9	ug/L	8
Ethylbenzene		08.04.94	94104	17.0	18.1	ug/L	6
Total Xylene Isomers		08.04.94	94104	106	113	ug/L	6
TPH (as Gasoline)		08.04.94	94104	984	1110	ug/L	12
a,a,a-Trifluorotoluene Reported		08.04.94	94104	53.6	54.7	ug/L	2
a,a,a-Trifluorotoluene Theoretic		08.04.94	94104	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9407394

DATE REPORTED : 08/11/94

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
.. E413.2/O&G	9407331*30						
Date Analyzed		07.28.94	9474	07/28/94	07/28/94	Date	N/A
Date Calibrated		07.28.94	9474	07/28/94	07/28/94	Date	N/A
Date Extracted		07.28.94	9474	07/28/94	07/28/94	Date	N/A
Oil & Grease,IR(EPA-413.2)		07.28.94	9474	3.54	3.24	mg/L	9
2. TPH-gas/BTEX (CADHS/80	9407410*2						
Date Analyzed		08.04.94	94104	08/04/94	08/04/94	Date	N/A
Benzene		08.04.94	94104	24.2	20.8	ug/L	15
Toluene		08.04.94	94104	89.6	77.7	ug/L	14
Ethylbenzene		08.04.94	94104	17.4	15.5	ug/L	12
Total Xylene Isomers		08.04.94	94104	110	95.9	ug/L	14
TPH (as Gasoline)		08.04.94	94104	981	971	ug/L	1
a,a,a-Trifluorotoluene Reported		08.04.94	94104	57.0	55.0	ug/L	4
a,a,a-Trifluorotoluene Theoretic		08.04.94	94104	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9407394

DATE REPORTED : 08/11/94

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT	
1. Oil & Grease,IR(EP	9407331*30	07.28.94	9474	83	76	4.21	mg/L	
2. TPH-gas/BTEX (CADHS/80	9407410*2							
Benzene		08.04.94	94104	110	95	21.9	ug/L	
Toluene		08.04.94	94104	105	91	84.9	ug/L	
Ethylbenzene		08.04.94	94104	95	84	18.4	ug/L	
Total Xylene Isomers		08.04.94	94104	114	99	96.7	ug/L	
TPH (as Gasoline)		08.04.94	94104	98	97	1000	ug/L	
a,a,a-Trifluorotoluene Reported		08.04.94	94104	NC	NC	50.0	ug/L	NC
a,a,a-Trifluorotoluene Theoretic		08.04.94	94104	NC	NC	50.0	ug/L	NC

BC ANALYTICAL

ORDER QC REPORT FOR G9407394

DATE REPORTED : 08/11/94

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER		DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. E413.2/O&G	B4071399*1						
Date Analyzed		07.28.94	9474	07/28/94	NA	Date	413.2
Date Extracted		07.28.94	9474	07/28/94	NA	Date	413.2
Oil & Grease,IR(EPA-413.2)		07.28.94	9474	0	0.2	mg/L	413.2
2. TPH-diesel/CADHS/3520	B4081060*1						
Date Analyzed		08.08.94	94183	08/08/94	NA	Date	8015M
Date Extracted		08.08.94	94183	08/01/94	NA	Date	8015M
TPH (as diesel)		08.08.94	94183	0	0.05	mg/L	8015M
3. TPH-gas/BTEX (CADHS/80	B408780*1						
Date Analyzed		08.04.94	94104	08/04/94	NA	Date	8015M.TX
Benzene		08.04.94	94104	0	0.5	ug/L	8015M.TX
Toluene		08.04.94	94104	0	0.5	ug/L	8015M.TX
Ethylbenzene		08.04.94	94104	0	0.5	ug/L	8015M.TX
Total Xylene Isomers		08.04.94	94104	0	0.5	ug/L	8015M.TX
TPH (as Gasoline)		08.04.94	94104	0	50	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 16:35:46 11 AUG 1994 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9407394*1							
8015M	Napthalene reported	94183	08/08/94	0.0689	0.0600	115	
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	47.8	50.0	96	
9407394*2							
8015M	Napthalene reported	94183	08/08/94	0.0516	0.0600	86	
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	55.1	50.0	110	
9407394*3							
8015M	Napthalene reported	94183	08/08/94	0.0464	0.0600	77	
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	47.9	50.0	96	
9407394*4							
8015M	Napthalene reported	94183	08/08/94	0.0533	0.0600	89	
8015M.TX	a,a,a-Trifluorotoluene	94104	08/05/94	47.8	50.0	96	
9407394*5							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/05/94	55.2	50.0	110	
9407394*6							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/05/94	38.0	50.0	76	
9407394*7							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/05/94	36.1	50.0	72	
9407394*8							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/05/94	52.0	50.0	104	
9407394*9							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	54.9	50.0	110	

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 16:35:50 11 AUG 1994 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9407410*2*R1							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	54.0	50.0	108	
9407410*2*S1							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	57.0	50.0	114	NC
9407410*2*S2							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	55.0	50.0	110	NC
9407410*2*T							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	50.0	50.0	100	
B4081060*1*MB							
8015M	Napthalene reported	94183	08/08/94	0.0575	0.0600	96	
B408780*1*MB							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	54.4	50.0	109	
C4081248*1*LC							
8015M	Napthalene reported	94183	08/08/94	0.0595	0.0600	99	
C4081248*1*LT							
8015M	Napthalene reported	94183	08/08/94	0.0600	0.0600	100	
C4081249*1*LC							
8015M	Napthalene reported	94183	08/08/94	0.0570	0.0600	95	
C4081249*1*LT							
8015M	Napthalene reported	94183	08/08/94	0.0600	0.0600	100	
C408927*1*LC							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	53.6	50.0	107	
C408927*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/04/94	50.0	50.0	100	
C408928*1*LC							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/05/94	54.7	50.0	109	
C408928*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	94104	08/05/94	50.0	50.0	100	

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 286-001.1A | Facility Address: 1726 Park St., Alameda, CA | Billing Refence Number: PO# 25826

Facility No. — | CLIENT engineer: Estate of John B. Henry | PACIFIC Point of Contact: Maree Dieden | Sampler: Rick Ignatowicz | Laboratory Name: BC

W=water S=soil A=air | G=grab D=disc. C=comp.

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	★ TPH Diesel (8015)	★ Oil and Grease (5520)	Total Dissvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)
MW-1 (15')	3	40ml	HCl	W	G	7-25-94	915	X						
	2	1l	ϕ						X			-1		
	1	1l	HCl							X				
MW-2 (15')	3	40ml	HCl				815	X						
	2	1l	ϕ						X			-2		
	1	1l	HCl							X				
MW-3 (15')	3	40ml	HCl				750	X						
	2	1l	ϕ						X			3		
	1	1l	HCl	✓	✓	✓				X				

Comments:
★ Please characterize for diesel, kerosene, & waste oil

1 of 2

Condition of Sample:

Temperature Received:

	Date	Time
Relinquished by	7-25-94	1300
Relinquished by	7/26/94	
Relinquished by	7-27-94	524
Relinquished by		

	Date	Time
Received by		
Received by		
Received by		
Received by laboratory		

	Date	Time
	7/25/94	1300
	7-26-94	1525
	7-27-94	524

Mail original Analytical Report to:
Pacific Environmental Group
2025 Gateway Place #440, San Jose, CA 95110 ☒
620 Contra Costa Blvd. #209, Pleasant Hill, CA 94523 ☐
25725 Jeronimo Rd. #576C, Mission Viejo, CA 92622 ☐
4020 148th Ave NE #B, Redmond, WA 98052 ☐

Turnaround Time:
Priority Rush (1 day)
Rush (2 days)
Expedited (5 days)
Standard (10 days)
As Contracted

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 286-001.1A

Facility No. —

Facility Address: 1726 Park St., Alameda, CA

Billing Refence Number: PO#: 25526

CLIENT engineer: Estate of John B. Henry

PACIFIC Point of Contact: Maree Diden

Sampler: Rick Ignatowicz

Laboratory Name: BC

W=water S=soil A=air

G=grab D=disc. C=comp.

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	★ TPH Diesel (8015)	★ Oil and Grease (5520)	Total Dslvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)
MW-4 (15')	3	40ml	HCl	W	G	7-25-94	835	X						5
MW-5 (15')	3	40ml	HCl				940	X						
↓	2	1l	ϕ				↓		X			4		
↓	1	1l	HCl				↓			X				
MW-6 (15')	3	40ml	HCl				1025	X						6
MW-7 (15')	↓	↓	↓				1010	↓						7
MW-8 (15')	↓	↓	↓				855	↓						8
TB	2	40ml	HCl	↓	↓	↓	—	X						9

Comments:

★ Please characterize for diesel, kerosene, waste oil

2.1?

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
[signature]	7-25-94	1300	[signature]	7/25/94	1300
[signature]	7/26/94		[signature]	7-26-94	1230
[signature]	7-27-94	504	[signature]	7-27-94	504
Relinquished by	Date	Time	Received by laboratory	Date	Time

Mail original Analytical Report to:

Pacific Environmental Group
2025 Gateway Place #440
San Jose, CA 95110

620 Contra Costa Blvd. #209
Pleasant Hill, CA 94523

25725 Jeronimo Rd. #576C
Mission Viejo, CA 92622

4020 148th Ave NE #B
Redmond, WA 98052

Turnaround Time:

- Priority Rush (1 day)
- Rush (2 days) ☒
- Expedited (5 days) ☐
- Standard (10 days) ☐
- As Contracted ☐

ATTACHMENT B

FIELD AND LABORATORY PROCEDURES

ATTACHMENT B
FIELD AND LABORATORY PROCEDURES

Sampling Procedures

The sampling procedure consisted of first measuring the water level in each well with an electronic water-level indicator and checking each well for the presence of separate-phase hydrocarbons using a clear Teflon bailer or an oil-water interface probe. The wells were then purged of approximately four casing volumes of water (or until dry) using a bailer or centrifugal pump, during which time temperature, pH, and electrical conductivity were monitored to indicate that a representative sample was obtained. After purging, the water levels in the wells were allowed to restabilize. Groundwater samples were then collected using a Teflon bailer, placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to a state-certified laboratory.

Laboratory Procedures

Groundwater samples collected from site monitoring wells were analyzed for the presence of total petroleum hydrocarbons calculated as gasoline (TPH-g) by EPA Methods 8015 (modified) and 5030; for benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020; for TPH calculated as diesel (TPH-d) by EPA Methods 8015; for total oil and grease by Standard Method 5520 (B and F); and for volatile organic compounds by EPA Method 8240. All analyses were performed by a state-certified laboratory.