



November 6, 1995

Scott Seery
Alameda County Department
of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Third Quarter 1995**
Shell Service Station
WIC #204-6852-1404
1784 150th Avenue
San Leandro, California
WA Job #81-0422-205

Dear Mr. Seery:

This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

Third Quarter 1995 Activities

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells (Figures 1 and 2). The BTS report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) calculated ground water elevations and compiled the analytic data (Tables 1 and 2), prepared a ground water elevation contour map and plotted benzene and total petroleum hydrocarbons as gasoline (TPH-G) concentrations in ground water (Figure 2).

Discussion of Quarterly Monitoring Results

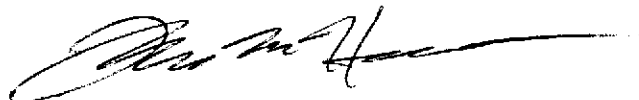
Ground water elevations in September 1995 dropped 1.5 to 2.5 ft in all site wells since the second quarter 1995. Although ground water contours indicate a southerly flow direction this quarter, the gradient is flat, less than 0.001 ft/ft. Historically, the ground water flow direction has been predominantly to the northwest. Furthermore, the distribution of dissolved hydrocarbons suggests that ground water flows northwestward, which is consistent with the topographic gradient.

Anticipated Fourth Quarter 1995 Activities

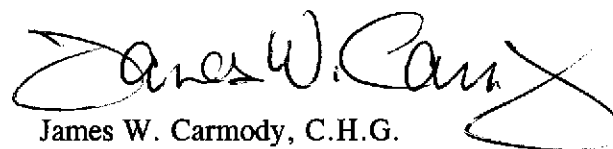
- WA will submit a report presenting the results of the fourth quarter 1995 ground water monitoring results. The report will include tabulated chemical analytic results, ground water elevations, a ground water elevation contour map with plotted benzene and TPH-G concentrations in ground water.
- WA will submit a corrective action plan (CAP) as you requested in your October 20, 1995 letter to Shell.

We trust that this submittal meets your needs. Please call Tom Howard at (510) 450-6118 if you have any questions or comments.

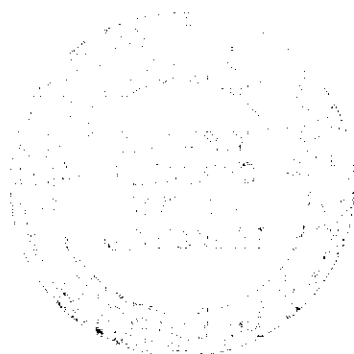
Sincerely,
Weiss Associates



Thomas M. Howard
Project Geologist



James W. Carmody, C.H.G.
Senior Project Hydrogeologist



Attachments: Figures
 Tables
 A - BTS Ground Water Monitoring Report

cc: R. Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524
 Kevin Graves, Regional Water Quality Control Board - San Francisco Bay Region,
 2101 Webster Street, Suite 500, Oakland, California 94612

TMH/JWC:all
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Figure 1. Site Location Map - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

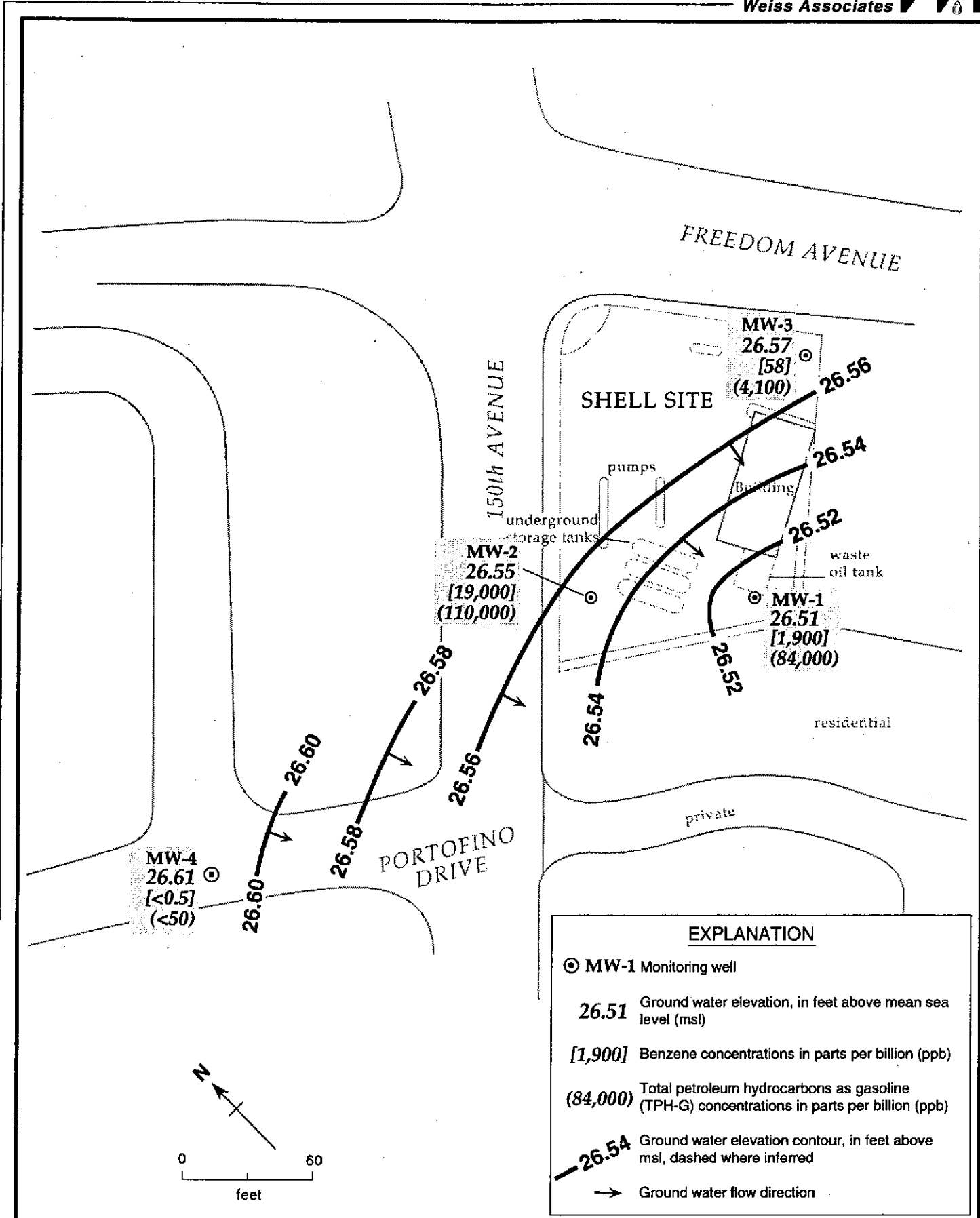


Figure 2 . Monitoring Well Locations, Ground Water Elevation Contours, Benzene and TPH-G Concentrations in Ground Water - September 13, 1995 - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	03/08/90	49.13	25.29	23.84
	06/12/90		25.85	23.28
	09/13/90		27.49	21.64
	12/18/90		27.41	21.72
	03/07/91		25.79	23.34
	06/07/91		25.64	23.49
	09/17/91		27.54	21.59
	12/09/91		27.81	21.32
	02/13/92		25.57	23.56
	02/24/92		22.83	26.30
	02/27/92		23.09	26.04
	03/01/92		23.26	25.87
	06/03/92		24.64	24.49
	09/01/92		26.74	22.39
	10/06/92		27.18	21.95
	11/11/92		27.99	21.14
	12/04/92		27.14	21.99
	01/22/93		20.09	29.04
	02/10/93		24.26	24.87
	03/03/93		20.50	28.63
	05/11/93		21.70	27.43
	06/17/93		22.42	26.71
	09/10/93		24.11	25.02
	12/13/93		23.73	25.40
	03/03/94		22.08	27.05
06/06/94	23.10	26.03		
09/12/94	25.19	23.94		
12/19/94	23.06	26.07		
02/28/95	20.90	28.23		
03/24/95	18.28	30.85		
06/26/95	20.40	28.73		
09/13/95	22.62	26.51		
MW-2	02/13/92	45.83	22.22	23.61
	02/24/92		19.61	26.22
	02/27/92		19.92	25.91
	03/01/92		21.11	24.72
	06/03/92		21.58	24.25
	09/01/92		23.46	22.37
	10/06/92		23.99	21.84
	11/11/92		24.25	21.58
	12/04/92		23.89	21.94
	01/22/93		17.03	28.80



Table 1. Ground Water Elevations - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	02/10/93		18.08	27.75
	03/03/93		17.28	28.55
	05/11/93		18.41	27.42
	06/17/93		19.06	26.77
	09/10/93		20.88	24.95
	12/13/93		20.42	25.41
	03/03/94		18.48	27.35
	06/06/94		20.26	25.57
	09/12/94		21.80	24.03
	12/19/94		19.66	26.17
	02/28/95		17.51	28.32
	03/24/95		14.88	30.95
	06/26/95		17.58	28.25
	09/13/95		19.28	26.55
MW-3	02/13/92	51.97	27.97	24.00
	02/24/92		25.60	26.37
	02/27/92		25.88	26.09
	03/01/92		26.00	25.97
	06/03/92		27.70	24.27
	09/01/92		29.46	22.51
	10/06/92		30.01	21.96
	11/11/92		30.26	21.71
	12/04/92		29.93	22.04
	01/22/93		22.76	29.21
	02/10/93		21.40	30.57
	03/03/93		23.08	28.89
	05/11/93		24.51	27.46
	06/17/93		25.21	26.76
	09/10/93		26.95	25.02
	12/13/93		26.52	25.45
	03/03/94		24.50	27.47
	06/06/94		26.33	25.64
	09/12/94		27.98	23.99
	12/19/94		25.63	26.34
	02/28/95		23.45	28.52
	03/24/95		21.07	30.90
	06/26/95		23.64	28.33
	09/13/95		25.40	26.57
MW-4	03/24/95	40.51	9.16	31.35
	06/26/95		12.06	28.45
	09/13/95		13.90	26.61

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
MW-1	03/08/90	25.29	510	120 ^a	<10,000	1.5	<0.5	0.8	5.4	12
	06/12/90	25.85	390	100 ^a	<10,000	86	0.7	1.3	6.2	<0.4
	09/13/90	27.49	100	130 ^a	<10,000	56	2.4	0.75	2.8	<0.4 ^b
	12/18/90	27.41	480	<50 ^a	<10,000	54	3.3	1.7	3.7	5.3
	03/07/91	25.79	80	<50 ^a	---	266	1.2	<0.5	<1.5	6.7
	06/07/91	25.64	510	<50 ^a	---	130	6.1	3.8	11	7.9
	09/17/91	27.54	330	120 ^{ac}	---	67	3	<0.5	2.2	6
	12/09/91	27.81	140 ^d	80	---	<0.5	1.7	<0.5	4.7	5.4
	03/01/92	23.36	<50	<50	---	<0.5	<0.5	<0.5	<0.5	3
	06/03/92	24.64	1,500	---	---	520	72	180	230	3
	09/01/92	26.74	130	---	---	16	1.8	1.4	3.4	1.3 ^e
	12/04/92	27.14	150	---	---	360	1.8	0.7	2.1	3.3
	03/03/93	20.50	<50	---	---	1.5	<0.5	<0.5	<0.5	0.76
	06/17/93	22.42	1,600	---	---	340	120	120	440	3
	09/10/93	24.11	2,600	---	---	670	310	340	730	2.3
	12/13/93	23.73	11,000	---	---	470	380	320	2,300	6.3
	03/03/94	22.08	16,000	---	---	700	480	690	3,200	---
	06/06/94	23.10	7,500	---	---	420	200	280	1,000	3.1
	09/12/94	25.19	1,200	---	---	110	3.3	21	420	2.6
	12/19/94	23.06	4,600	---	---	470	230	330	1,300	3.7
02/28/95	20.90	500	---	---	59	6.8	32	68	5.0	
06/26/95	20.40	5,500	---	---	740	300	420	1,800	8.6	
09/13/95	22.62	84,000	---	---	1,900	3,000	2,600	14,000	12	
MW-2	02/24/92	19.61	17,000	2,700 ^f	---	6,200	550	1,600	1,900	200
	03/01/92	21.11	86,000	1,000 ^f	---	30,000	2,300	34,000	16,000	82
	06/03/92	21.58	87,000	---	---	28,000	2,000	18,000	10,000	<50
	09/01/92	23.46	110,000	---	---	21,000	1,900	13,000	7,800	83 ^h
	12/04/92	23.89	42,000	---	---	15,000	960	2,400	2,900	100
	03/03/93	17.28	160,000	---	---	36,000	32,000	3,800	21,000	7.7

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
	03/03/93 ^h	17.28	150,000	---	---	31,000	20,000	3,100	14,000	16
	06/17/93	19.06	65,000	---	---	34,000	3,200	15,000	11,000	37
	06/17/93 ^h	19.06	62,000	---	---	28,000	2,700	14,000	10,000	36
	09/10/93 ^f	20.88	72,000	---	---	24,000	2,300	16,000	11,000	28.0
	09/10/93 ^{dupf}	20.88	71,000	---	---	23,000	2,300	15,000	10,000	27.0
	12/13/93	20.42	19,000	---	---	5,400	680	4,900	3,100	<0.5
	12/13/93 ^{dup}		17,000	---	---	6,200	720	5,500	3,500	3.4
	03/03/94	18.48	110,000	---	---	21,000	2000	24,000	13,000	---
	03/03/94 ^{dup}	18.48	93,000	---	---	19,000	1,800	22,000	12,000	---
	06/06/94	20.26	10,000	---	---	1,900	2,500	3,300	13,000	5.8
	06/06/94 ^{dup}	20.26	99,000	---	---	9,900	2,400	12,000	12,000	5.7
	09/12/94	21.80	160,000	---	---	22,000	3,400	33,000	23,000	<0.4
	09/12/94 ^{dup}	21.80	150,000	---	---	23,000	3,500	34,000	23,000	<0.4
	12/19/94	19.66	80,000	---	---	17,000	2,300	16,000	14,000	<0.4
	12/19/94 ^{dup}	19.66	100,000	---	---	28,000	3,400	26,000	20,000	<0.4
	02/28/95	17.51	100,000	---	---	24,000	2,300	18,000	17,000	<0.4
	02/28/95 ^{dup}	17.51	100,000	---	---	31,000	3,200	21,000	18,000	<0.4
	06/26/95	17.58	45,000	---	---	14,000	1,500	12,000	7,500	3.4
	06/26/95 ^{dup}	17.58	68,000	---	---	13,000	1,800	11,000	7,700	---
	09/13/95	19.28	110,000	---	---	19,000	2,800	19,000	15,000	7.2
	09/13/95^{dup}	19.28	120,000	---	---	20,000	2,900	20,000	15,000	<0.4
MW-3	02/24/92	25.60	4,500	1,300 ^e	---	97	78	<5	18	9.1
	03/01/92	26.00	2,200	440	---	69	<0.5	<0.5	<0.5	13
	06/03/92	27.70	4,100	---	---	13	44	72	65	16
	09/01/92	29.46	1,900	---	---	20	5.5	6.8	<5	19
	09/01/92 ^{dup}	29.46	1,900	---	---	21	3.4	6.6	<5	21
	12/04/92	29.93	2,400	---	---	8.2	<5	<5	<5	16
	12/04/92 ^{dup}	29.93	2,100	---	---	11	5.7	<0.5	<0.5	18
	03/03/93	23.08	5,100	---	---	63	75	61	150	3.3

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
	06/17/93	25.21	4,000	---	---	94	82	140	150	23
	09/10/93	26.95	3,200	---	---	140	12.5	12.5	12.5	20.0
	12/13/93	26.52	6,200	---	---	<12.5	<12.5	<12.5	<12.5	13
	03/03/94	24.50	4,500	---	---	73	<5	<5	<5	---
	06/06/94	26.33	3,200	---	---	<0.5	3.1	<0.5	<0.5	16
	09/12/94	27.98	3,900	---	---	<0.5	9.6	<0.5	4.1	7.8
	12/19/94	25.63	2,400	---	---	21	4.2	22	2.6	25
	02/28/95	23.45	4,000	---	---	58	7.1	<0.5	3.5	18
	06/26/95	23.64	3,900	---	---	8.1	12	<0.5	2.4	15
	09/13/95	25.40	4,100	---	---	58	5.5	5.5	<0.5	6.7
MW-4	03/24/95	9.16	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
	06/26/95	12.06	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
	09/13/95	13.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
Trip Blank	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/12/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/18/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	03/07/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/07/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	09/17/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/24/92		<50	---	---	<0.5	0.6	2.5	2.2	---
	03/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/03/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	09/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5
	12/04/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 ^j
	03/03/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5
	06/17/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5
	09/10/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
	12/13/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 ^k
	03/03/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/06/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	09/12/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/19/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/28/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	03/24/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/26/95		<50	---	---	4.1	<0.5	3.0	1.5	---
	09/13/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Bailer	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Blank	09/01/92		<50	---	---	<0.5	<0.5	0.7	<0.5	<0.5
	12/04/92		60	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 ^j
DTSC MCLs			NE	NE	NE	1	680	100 ^l	1,750	5.0

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Abbreviations:

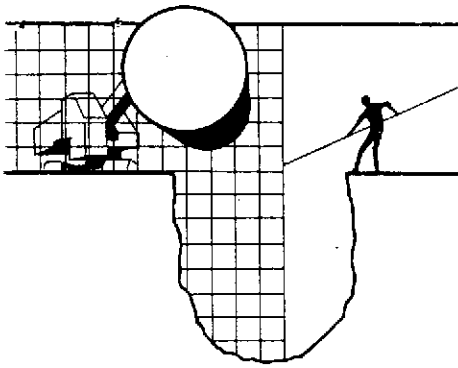
- TPH-G = Total Petroleum Hydrocarbons as Gasoline by Modified EPA Method 8015
TPH-D = Total Petroleum Hydrocarbons as Diesel by Modified EPA Method 8015
POG = Petroleum oil and grease by American Public Health Association Standard Method 503E or 5520F
B = Benzene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
T = Toluene by EPA Method 8020
X = Xylenes by EPA Method 8020
1,2-DCA = 1,2-Dichloroethane by EPA Method 601
--- = Not analyzed
<n = Not detected above method detection limit of n ppb
DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
NE = Not established

Notes:

- a = No total petroleum hydrocarbons as motor oil detected above modified EPA Method 8015 detection limit of 500 ppb
b = Tetrachloroethene (PCE) detected at 24 ppb by EPA Method 601; DTSC MCL for PCE = 5 ppb
c = Result is due to hydrocarbon compounds lighter than diesel
d = Result due to a non-gasoline hydrocarbon
e = In the matrix spike/matrix spike duplicate of sample MW-1, the RPD for Freon 113 and 1,3-dichlorobenzene was greater than 25%
f = The MW-2 and Dup samples each contained 1.6 ppb of methylene chloride which is within normal laboratory background levels.
h = Sample MW-2 was diluted 1:100 for EPA Method 8010 due to the interfering hydrocarbon peaks
j = The trip and field blank samples contained 14 and 10 mg/L 1,3-dichlorobenzene, respectively
k = 1.4 mg/L Chloroethene detected in equipment blank, trip blank not analyzed
l = DTSC recommended action level for drinking water; MCL not established

ATTACHMENT A

BTS GROUND WATER MONITORING REPORT



BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

October 4, 1995

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

Attn: R. Jeff Granberry

Shell WIC #204-6852-1404
1784 150th Avenue
San Leandro, California

3rd Quarter 1995

Quarterly Groundwater Monitoring Report 950913-T-2

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 995-5535 ext. 201.

Yours truly,

Francis Thie

attachments: Table of Well Gauging Data
Chain of Custody
Field Data Sheets
Certified Analytical Report

cc: Weiss Associates
5500 Shellmound Street
Emeryville, CA 95608-2411
Attn: Grady Glasser

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
MW-1	9/13/95	TOC	SHEEN ODOR	--	--	--	22.62	44.70
MW-2 *	9/13/95	TOC	ODOR	NONE	--	--	19.28	44.07
MW-3	9/13/95	TOC	--	NONE	--	--	25.40	41.64
MW-4	9/13/95	TOC	--	NONE	--	--	13.90	25.04

* Sample DUP was a duplicate sample taken from well MW-2.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 950913-T2

Date: 9-13-95

Page 1 of 1

Site Address: 1784 150th Avenue, San Leandro

WIC#: 204-6852-1404

Shell Engineer: Dan Kirk
Phone No.: (510) 675-6188
Fax #: 675-6160

Consultant Name & Address:
Blaine Tech Services, Inc.
985 Timothy Dr., San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by: Mike Toll

Printed Name: Mike Toll

Analysis Required

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/> 6441		24 hour <input type="checkbox"/>
Site Investigation <input type="checkbox"/> 6441		48 hour <input type="checkbox"/>
Soil Classfy/D'sposal <input type="checkbox"/> 6442		16 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/D'sposal <input type="checkbox"/> 6443		Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/> 6462		NOTE: Holby lab as soon as possible of 24/48 hr. TAT.
Water Rem. or Sys. O & M <input type="checkbox"/> 6463		
Other <input type="checkbox"/>		

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	VOC (8010)	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
Mw2	9/13			X		6						X	X						
Mw3	9/13			X		6						X	X						
Mw4	9/13			X		6						X	X						
Dup	9/13			X		6						X	X						
CB	9/13			X		3						X	X						
TB	9/13			X		2						X	X						

CUSTODY SEALED
Date: 9/14/95 Time: 1720 Initials: PS
SEAL INTACT?
Yes No Initials: PS

Relinquished By (signature): <u>Mike Toll</u>	Printed Name: <u>Mike Toll</u>	Date: <u>9-14-95</u>	Time: <u>10:27</u>	Received (signature): <u>Phyllis Smart</u>	Printed Name: <u>Phyllis Smart</u>	Date: <u>9-14-95</u>	Time: <u>10:27</u>
Relinquished By (signature): <u>Phyllis Smart</u>	Printed Name: <u>Phyllis Smart</u>	Date: <u>9-14-95</u>	Time: <u>1720</u>	Received (signature): <u>Pam Greene</u>	Printed Name: <u>PAM GREENE</u>	Date: <u>9-15-95</u>	Time: <u>10:30</u>
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

VIA: NCS



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

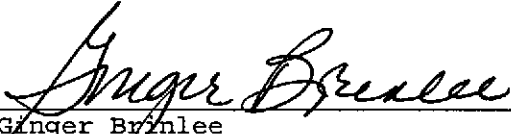
Date: 10/13/1995
NET Client Acct. No: 1821
NET Job No: 95.03669
Received: 09/15/1995
Amended: 11/09/95

Client Reference Information

Shell 1784 150th Avenue, San Leandro, CA/950913-T2

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:



Ginger Brunlee
Project Coordinator

Enclosure (s)





NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

Date: 10/13/1995
NET Client Acct. No: 1821
NET Job No: 95.03669
Received: 09/15/1995

Client Reference Information

Shell 1784 150th Avenue, San Leandro, CA/950913-T2

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:

A handwritten signature in cursive script that reads "Ginger Brinlee".

Ginger Brinlee
Project Coordinator

Enclosure (s)





Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03669

Date: 10/13/1995
ELAP Cert: 1386
Page: 2

Ref: Shell 1784 150th Avenue, San Leandro, CA/950913-T2

SAMPLE DESCRIPTION: MW1

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251159

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	100						09/27/1995	3206
Purgeable TPH	84,000		5,000	ug/L	5030/M8015		09/27/1995	3206
Carbon Range: C6 to C12	--						09/27/1995	3206
METHOD 8020 (GC, Liquid)	--						09/27/1995	3206
Benzene	1900		50	ug/L	8020		09/27/1995	3206
Toluene	2600		50	ug/L	8020		09/27/1995	3206
Ethylbenzene	3000		50	ug/L	8020		09/27/1995	3206
Xylenes (Total)	14,000	FH	250	ug/L	8020		10/02/1995	3226
SURROGATE RESULTS	--						09/27/1995	3206
Bromofluorobenzene (SURR)	94			% Rec.	8020		09/27/1995	3206

FH : Compound quantitated at a 500X dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03669

Date: 10/13/1995
ELAP Cert: 1386
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Ref: Shell 1784 150th Avenue, San Leandro, CA/950913-T2

SAMPLE DESCRIPTION: MW1

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251159

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						09/27/1995	892
Bromodichloromethane	ND		0.4	ug/L	8010		09/27/1995	892
Bromoform	ND		0.4	ug/L	8010		09/27/1995	892
Bromomethane	ND		0.4	ug/L	8010		09/27/1995	892
Carbon tetrachloride	ND		0.4	ug/L	8010		09/27/1995	892
Chlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
Chloroethane	ND		0.4	ug/L	8010		09/27/1995	892
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		09/27/1995	892
Chloroform	ND		0.4	ug/L	8010		09/27/1995	892
Chloromethane	ND		0.4	ug/L	8010		09/27/1995	892
Dibromochloromethane	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
Dichlorodifluoromethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1-Dichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichloroethane	12		0.4	ug/L	8010		09/27/1995	892
1,1-Dichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		09/27/1995	892
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichloropropane	ND		0.4	ug/L	8010		09/27/1995	892
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/27/1995	892
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/27/1995	892
Methylene chloride	ND		10	ug/L	8010		09/27/1995	892
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		09/27/1995	892
Tetrachloroethene	ND		0.4	ug/L	8010		09/27/1995	892
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1,2-Trichloroethane	ND		1	ug/L	8010		09/27/1995	892
Trichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
Trichlorofluoromethane	ND		0.4	ug/L	8010		09/27/1995	892
Vinyl chloride	ND		0.4	ug/L	8010		09/27/1995	892
SURROGATE RESULTS								
1,4-Difluorobenzene (SURR)	196	MI		% Rec.			09/27/1995	892
1,4-Dichlorobutane (SURR)	85			% Rec.			09/27/1995	892
Bromochloromethane (SURR)	N/A			% Rec.			09/27/1995	892

MI : Matrix Interference Suspected.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03669

Date: 10/13/1995
ELAP Cert: 1386
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Ref: Shell 1784 150th Avenue, San Leandro, CA/950913-T2

SAMPLE DESCRIPTION: MW2

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251160

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1,000						10/05/1995	3233
Purgeable TPH	110,000		50,000	ug/L	5030/M8015		10/05/1995	3233
Carbon Range: C6 to C12	--						10/05/1995	3233
METHOD 8020 (GC, Liquid)	--						10/05/1995	3233
Benzene	19,000		500	ug/L	8020		10/05/1995	3233
Toluene	19,000		500	ug/L	8020		10/05/1995	3233
Ethylbenzene	2,800		500	ug/L	8020		10/05/1995	3233
Xylenes (Total)	15,000		500	ug/L	8020		10/05/1995	3233
SURROGATE RESULTS	--						10/05/1995	3233
Bromofluorobenzene (SURR)	88			% Rec.	8020		10/05/1995	3233

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03669

Date: 10/13/1995
ELAP Cert: 1386
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Ref: Shell 1784 150th Avenue, San Leandro, CA/950913-T2

SAMPLE DESCRIPTION: MW2

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251160

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						09/27/1995	892
Bromodichloromethane	ND		0.4	ug/L	8010		09/27/1995	892
Bromoform	ND		0.4	ug/L	8010		09/27/1995	892
Bromomethane	ND		0.4	ug/L	8010		09/27/1995	892
Carbon tetrachloride	ND		0.4	ug/L	8010		09/27/1995	892
Chlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
Chloroethane	ND		0.4	ug/L	8010		09/27/1995	892
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		09/27/1995	892
Chloroform	ND		0.4	ug/L	8010		09/27/1995	892
Chloromethane	ND		0.4	ug/L	8010		09/27/1995	892
Dibromochloromethane	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
Dichlorodifluoromethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1-Dichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichloroethane	7.2		0.4	ug/L	8010		09/27/1995	892
1,1-Dichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		09/27/1995	892
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichloropropane	ND		0.4	ug/L	8010		09/27/1995	892
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/27/1995	892
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/27/1995	892
Methylene chloride	ND		10	ug/L	8010		09/27/1995	892
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		09/27/1995	892
Tetrachloroethene	ND		0.4	ug/L	8010		09/27/1995	892
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1,2-Trichloroethane	ND		1	ug/L	8010		09/27/1995	892
Trichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
Trichlorofluoromethane	ND		0.4	ug/L	8010		09/27/1995	892
Vinyl chloride	ND		0.4	ug/L	8010		09/27/1995	892
SURROGATE RESULTS	--						09/27/1995	892
1,4-Difluorobenzene (SURR)	172	MI		% Rec.			09/27/1995	892
1,4-Dichlorobutane (SURR)	75			% Rec.			09/27/1995	892
Bromochloromethane (SURR)	N/A			% Rec.			09/27/1995	892

MI : Matrix Interference Suspected.

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Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03669

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Ref: Shell 1784 150th Avenue, San Leandro, CA/950913-T2

SAMPLE DESCRIPTION: MW3

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251161

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	10						10/03/1995	3221
Purgeable TPH	4,100		500	ug/L	5030/M8015		10/03/1995	3221
Carbon Range: C6 to C12	--						10/03/1995	3221
METHOD 8020 (GC, Liquid)								
Benzene	58		5	ug/L	8020		10/03/1995	3221
Toluene	5.5		5	ug/L	8020		10/03/1995	3221
Ethylbenzene	5.5		5	ug/L	8020		10/03/1995	3221
Xylenes (Total)	ND		5	ug/L	8020		10/03/1995	3221
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	92			% Rec.	8020		10/03/1995	3221

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03669

Date: 10/13/1995
ELAP Cert: 1386
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Ref: Shell 1784 150th Avenue, San Leandro, CA/950913-T2

SAMPLE DESCRIPTION: MW3

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251161

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						09/27/1995	892
Bromodichloromethane	ND		0.4	ug/L	8010		09/27/1995	892
Bromoform	ND		0.4	ug/L	8010		09/27/1995	892
Bromomethane	ND		0.4	ug/L	8010		09/27/1995	892
Carbon tetrachloride	ND		0.4	ug/L	8010		09/27/1995	892
Chlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
Chloroethane	ND		0.4	ug/L	8010		09/27/1995	892
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		09/27/1995	892
Chloroform	ND		0.4	ug/L	8010		09/27/1995	892
Chloromethane	ND		0.4	ug/L	8010		09/27/1995	892
Dibromochloromethane	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
Dichlorodifluoromethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1-Dichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichloroethane	6.7		0.4	ug/L	8010		09/27/1995	892
1,1-Dichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		09/27/1995	892
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichloropropane	ND		0.4	ug/L	8010		09/27/1995	892
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/27/1995	892
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/27/1995	892
Methylene chloride	ND		10	ug/L	8010		09/27/1995	892
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		09/27/1995	892
Tetrachloroethene	ND		0.4	ug/L	8010		09/27/1995	892
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1,2-Trichloroethane	ND		1	ug/L	8010		09/27/1995	892
Trichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
Trichlorofluoromethane	ND		0.4	ug/L	8010		09/27/1995	892
Vinyl chloride	ND		0.4	ug/L	8010		09/27/1995	892
SURROGATE RESULTS	--						09/27/1995	892
1,4-Difluorobenzene (SURR)	98			% Rec.			09/27/1995	892
1,4-Dichlorobutane (SURR)	113			% Rec.			09/27/1995	892
Bromochloromethane (SURR)	N/A			% Rec.			09/27/1995	892

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03669

Date: 10/13/1995
ELAP Cert: 1386
Page: 8

Ref: Shell 1784 150th Avenue, San Leandro, CA/950913-T2

SAMPLE DESCRIPTION: MW4
Date Taken: 09/13/1995
Time Taken:
NET Sample No: 251162

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						09/27/1995	3205
Purgeable TPH	ND		50	ug/L	5030/M8015		09/27/1995	3205
Carbon Range: C6 to C12	--						09/27/1995	3205
METHOD 8020 (GC, Liquid)								
Benzene	ND		0.5	ug/L	8020		09/27/1995	3205
Toluene	ND		0.5	ug/L	8020		09/27/1995	3205
Ethylbenzene	ND		0.5	ug/L	8020		09/27/1995	3205
Xylenes (Total)	ND		0.5	ug/L	8020		09/27/1995	3205
SURROGATE RESULTS								
Bromofluorobenzene (SURRE)	91			% Rec.	8020		09/27/1995	3205

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03669

Date: 10/13/1995
ELAP Cert: 1386
Page: 9

Ref: Shell 1784 150th Avenue, San Leandro, CA/950913-T2

SAMPLE DESCRIPTION: MW4

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251162

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						09/27/1995	892
Bromodichloromethane	ND		0.4	ug/L	8010		09/27/1995	892
Bromoform	ND		0.4	ug/L	8010		09/27/1995	892
Bromomethane	ND		0.4	ug/L	8010		09/27/1995	892
Carbon tetrachloride	ND		0.4	ug/L	8010		09/27/1995	892
Chlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
Chloroethane	ND		0.4	ug/L	8010		09/27/1995	892
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		09/27/1995	892
Chloroform	ND		0.4	ug/L	8010		09/27/1995	892
Chloromethane	ND		0.4	ug/L	8010		09/27/1995	892
Dibromochloromethane	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
Dichlorodifluoromethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1-Dichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1-Dichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		09/27/1995	892
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichloropropane	ND		0.4	ug/L	8010		09/27/1995	892
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/27/1995	892
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/27/1995	892
Methylene chloride	ND		10	ug/L	8010		09/27/1995	892
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		09/27/1995	892
Tetrachloroethene	ND		0.4	ug/L	8010		09/27/1995	892
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1,2-Trichloroethane	ND		1	ug/L	8010		09/27/1995	892
Trichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
Trichlorofluoromethane	ND		0.4	ug/L	8010		09/27/1995	892
Vinyl chloride	ND		0.4	ug/L	8010		09/27/1995	892
SURROGATE RESULTS	--						09/27/1995	892
1,4-Difluorobenzene (SURR)	99				% Rec.		09/27/1995	892
1,4-Dichlorobutane (SURR)	112				% Rec.		09/27/1995	892
Bromochloromethane (SURR)	N/A				% Rec.		09/27/1995	892

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Ref: Shell 1784 150th Avenue, San Leandro, CA/950913-T2

SAMPLE DESCRIPTION: DDP

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251163/Amended

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	100						10/03/1995	3221
Purgeable TPH	120,000		5,000	ug/L	5030/M8015		10/03/1995	3221
Carbon Range: C6 to C12	--						10/03/1995	3221
METHOD 8020 (GC, Liquid)	--						10/03/1995	3221
Benzene	20000	FI	500	ug/L	8020		10/05/1995	3233
Toluene	20000	FI	500	ug/L	8020		10/05/1995	3233
Ethylbenzene	2,900		50	ug/L	8020		10/03/1995	3221
Xylenes (Total)	15,000		50	ug/L	8020		10/03/1995	3221
SURROGATE RESULTS	--						10/03/1995	3221
Bromofluorobenzene (SURRE)	99			% Rec.	8020		10/03/1995	3221

FI : Compound quantitated at a 1000X dilution factor.

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SAMPLE DESCRIPTION: DUP

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251163

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						09/27/1995	892
Bromodichloromethane	ND		0.4	ug/L	8010		09/27/1995	892
Bromoform	ND		0.4	ug/L	8010		09/27/1995	892
Bromomethane	ND		0.4	ug/L	8010		09/27/1995	892
Carbon tetrachloride	ND		0.4	ug/L	8010		09/27/1995	892
Chlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
Chloroethane	ND		0.4	ug/L	8010		09/27/1995	892
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		09/27/1995	892
Chloroform	ND		0.4	ug/L	8010		09/27/1995	892
Chloromethane	ND		0.4	ug/L	8010		09/27/1995	892
Dibromochloromethane	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		09/27/1995	892
Dichlorodifluoromethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1-Dichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1-Dichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		09/27/1995	892
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
1,2-Dichloropropane	ND		0.4	ug/L	8010		09/27/1995	892
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/27/1995	892
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/27/1995	892
Methylene chloride	ND		10	ug/L	8010		09/27/1995	892
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		09/27/1995	892
Tetrachloroethene	ND		0.4	ug/L	8010		09/27/1995	892
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		09/27/1995	892
1,1,2-Trichloroethane	ND		1	ug/L	8010		09/27/1995	892
Trichloroethene	ND		0.4	ug/L	8010		09/27/1995	892
Trichlorofluoromethane	ND		0.4	ug/L	8010		09/27/1995	892
Vinyl chloride	ND		0.4	ug/L	8010		09/27/1995	892
SURROGATE RESULTS	--						09/27/1995	892
1,4-Difluorobenzene (SURR)	85				% Rec.		09/27/1995	892
1,4-Dichlorobutane (SURR)	79				% Rec.		09/27/1995	892
Bromochloromethane (SURR)	N/A				% Rec.		09/27/1995	892

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SAMPLE DESCRIPTION: EB

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251164

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						09/27/1995	3205
Purgeable TPH	ND		50	ug/L	5030/M8015		09/27/1995	3205
Carbon Range: C6 to C12	--						09/27/1995	3205
METHOD 8020 (GC, Liquid)	--						09/27/1995	3205
Benzene	ND		0.5	ug/L	8020		09/27/1995	3205
Toluene	ND		0.5	ug/L	8020		09/27/1995	3205
Ethylbenzene	ND		0.5	ug/L	8020		09/27/1995	3205
Xylenes (Total)	ND		0.5	ug/L	8020		09/27/1995	3205
SURROGATE RESULTS	--						09/27/1995	3205
Bromofluorobenzene (SURR)	81			% Rec.	8020		09/27/1995	3205

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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SAMPLE DESCRIPTION: TB

Date Taken: 09/13/1995

Time Taken:

NET Sample No: 251165

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						09/27/1995	3205
Purgeable TPH	ND		50	ug/L	5030/M8015		09/27/1995	3205
Carbon Range: C6 to C12	--						09/27/1995	3205
METHOD 8020 (GC, Liquid)	--						09/27/1995	3205
Benzene	ND		0.5	ug/L	8020		09/27/1995	3205
Toluene	ND		0.5	ug/L	8020		09/27/1995	3205
Ethylbenzene	ND		0.5	ug/L	8020		09/27/1995	3205
Xylenes (Total)	ND		0.5	ug/L	8020		09/27/1995	3205
SURROGATE RESULTS	--						09/27/1995	3205
Bromofluorobenzene (SURR)	80			% Rec.	8020		09/27/1995	3205

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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected				
METHOD 5030/8015-M (Shell)							
Purgeable TPH	100.0	0.50	0.50	mg/L	09/27/1995	aal	3205
Benzene	100.4	5.02	5.00	ug/L	09/27/1995	aal	3205
Toluene	107.6	5.38	5.00	ug/L	09/27/1995	aal	3205
Ethylbenzene	104.0	5.20	5.00	ug/L	09/27/1995	aal	3205
Xylenes (Total)	108.0	16.2	15.0	ug/L	09/27/1995	aal	3205
Bromofluorobenzene (SURR)	92.0	92	100	% Rec.	09/27/1995	aal	3205
METHOD 5030/8015-M (Shell)							
Purgeable TPH	106.0	0.53	0.50	mg/L	09/27/1995		3206
Benzene	99.0	4.95	5.00	ug/L	09/27/1995		3206
Toluene	95.8	4.79	5.00	ug/L	09/27/1995		3206
Ethylbenzene	98.8	4.94	5.00	ug/L	09/27/1995		3206
Xylenes (Total)	98.0	14.7	15.0	ug/L	09/27/1995		3206
Bromofluorobenzene (SURR)	82.0	82	100	% Rec.	09/27/1995	aal	3205
METHOD 5030/8015-M (Shell)							
Purgeable TPH	96.0	0.48	0.50	mg/L	10/03/1995	aal	3221
Benzene	95.8	4.79	5.00	ug/L	10/03/1995	aal	3221
Toluene	97.8	4.89	5.00	ug/L	10/03/1995	aal	3221
Ethylbenzene	101.2	5.06	5.00	ug/L	10/03/1995	aal	3221
Xylenes (Total)	102.7	15.4	15.0	ug/L	10/03/1995	aal	3221
Bromofluorobenzene (SURR)	100.0	100	100	% Rec.	10/03/1995	aal	3221
METHOD 5030/8015-M (Shell)							
Purgeable TPH	98.0	0.49	0.50	mg/L	10/02/1995	dld	3226
Benzene	111.0	5.55	5.00	ug/L	10/02/1995	dld	3226
Toluene	113.6	5.68	5.00	ug/L	10/02/1995	dld	3226
Ethylbenzene	111.6	5.58	5.00	ug/L	10/02/1995	dld	3226
Xylenes (Total)	114.7	17.2	15.0	ug/L	10/02/1995	dld	3226
Bromofluorobenzene (SURR)	97.0	97	100	% Rec.	10/02/1995	dld	3226
METHOD 5030/8015-M (Shell)							
Purgeable TPH	86.0	0.43	0.50	mg/L	10/05/1995	aal	3233
Benzene	94.8	4.74	5.00	ug/L	10/05/1995	aal	3233
Toluene	89.0	4.45	5.00	ug/L	10/05/1995	aal	3233
Ethylbenzene	90.0	4.50	5.00	ug/L	10/05/1995	aal	3233
Xylenes (Total)	88.0	13.2	15.0	ug/L	10/05/1995	aal	3233
Bromofluorobenzene (SURR)	87.0	87	100	% Rec.	10/05/1995	aal	3233

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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected				
METHOD 8010 (GC,Liquid)							
Bromodichloromethane	116.5	23.29	20.0	ug/L	09/27/1995	tdn	892
Bromoform	119.0	23.80	20.0	ug/L	09/27/1995	tdn	892
Bromomethane	131.5	26.29	20.0	ug/L	09/27/1995	tdn	892
Carbon tetrachloride	125.5	25.09	20.0	ug/L	09/27/1995	tdn	892
Chlorobenzene	117.8	23.55	20.0	ug/L	09/27/1995	tdn	892
Chloroethane	80.0	16.00	20.0	ug/L	09/27/1995	tdn	892
2-Chloroethylvinyl ether	109.0	21.80	20.0	ug/L	09/27/1995	tdn	892
Chloroform	113.9	22.78	20.0	ug/L	09/27/1995	tdn	892
Chloromethane	70.7	14.13	20.0	ug/L	09/27/1995	tdn	892
Dibromochloromethane	111.9	22.37	20.0	ug/L	09/27/1995	tdn	892
1,2-Dichlorobenzene	107.9	21.57	20.0	ug/L	09/27/1995	tdn	892
1,3-Dichlorobenzene	112.9	22.57	20.0	ug/L	09/27/1995	tdn	892
1,4-Dichlorobenzene	108.4	21.67	20.0	ug/L	09/27/1995	tdn	892
Dichlorodifluoromethane	87.7	17.54	20.0	ug/L	09/27/1995	tdn	892
1,1-Dichloroethane	102.7	20.53	20.0	ug/L	09/27/1995	tdn	892
1,2-Dichloroethane	111.7	22.34	20.0	ug/L	09/27/1995	tdn	892
1,1-Dichloroethene	97.6	19.51	20.0	ug/L	09/27/1995	tdn	892
cis-1,2-Dichloroethene	114.2	22.84	20.0	ug/L	09/27/1995	tdn	892
trans-1,2-Dichloroethene	62.9	12.57	20.0	ug/L	09/27/1995	tdn	892
1,2-Dichloropropane	112.2	22.43	20.0	ug/L	09/27/1995	tdn	892
cis-1,3-Dichloropropene	117.9	23.57	20.0	ug/L	09/27/1995	tdn	892
trans-1,3-Dichloropropene	116.7	23.34	20.0	ug/L	09/27/1995	tdn	892
Methylene chloride	51.0	10.19	20.0	ug/L	09/27/1995	tdn	892
1,1,2,2-Tetrachloroethane	101.5	20.30	20.0	ug/L	09/27/1995	tdn	892
Tetrachloroethene	113.3	22.66	20.0	ug/L	09/27/1995	tdn	892
1,1,1-Trichloroethane	113.7	22.74	20.0	ug/L	09/27/1995	tdn	892
1,1,2-Trichloroethane	108.0	21.59	20.0	ug/L	09/27/1995	tdn	892
Trichloroethene	112.8	22.56	20.0	ug/L	09/27/1995	tdn	892
Trichlorofluoromethane	100.0	19.99	20.0	ug/L	09/27/1995	tdn	892
Vinyl chloride	84.8	16.95	20.0	ug/L	09/27/1995	tdn	892
1,4-Difluorobenzene (SURRE)	111.0	111	100	% Rec.	09/27/1995	tdn	892
1,4-Dichlorobutane (SURRE)	107.0	107	100	% Rec.	09/27/1995	tdn	892
Bromochloromethane (SURRE)		N/A	100	% Rec.	09/27/1995	tdn	892

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	09/27/1995	aal	3205
Benzene	ND	0.5	ug/L	09/27/1995	aal	3205
Toluene	ND	0.5	ug/L	09/27/1995	aal	3205
Ethylbenzene	ND	0.5	ug/L	09/27/1995	aal	3205
Xylenes (Total)	ND	0.5	ug/L	09/27/1995	aal	3205
Bromofluorobenzene (SURR)	89		% Rec.	09/27/1995	aal	3205
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	09/27/1995		3206
Benzene	ND	0.5	ug/L	09/27/1995		3206
Toluene	ND	0.5	ug/L	09/27/1995		3206
Ethylbenzene	ND	0.5	ug/L	09/27/1995		3206
Xylenes (Total)	ND	0.5	ug/L	09/27/1995		3206
Bromofluorobenzene (SURR)	88		% Rec.	09/27/1995		3206
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	10/03/1995	aal	3221
Benzene	ND	0.5	ug/L	10/03/1995	aal	3221
Toluene	ND	0.5	ug/L	10/03/1995	aal	3221
Ethylbenzene	ND	0.5	ug/L	10/03/1995	aal	3221
Xylenes (Total)	ND	0.5	ug/L	10/03/1995	aal	3221
Bromofluorobenzene (SURR)	97		% Rec.	10/03/1995	aal	3221
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	10/02/1995	dld	3226
Benzene	ND	0.5	ug/L	10/02/1995	dld	3226
Toluene	ND	0.5	ug/L	10/02/1995	dld	3226
Ethylbenzene	ND	0.5	ug/L	10/02/1995	dld	3226
Xylenes (Total)	ND	0.5	ug/L	10/02/1995	dld	3226
Bromofluorobenzene (SURR)	85		% Rec.	10/02/1995	dld	3226
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	10/05/1995	aal	3233
Benzene	ND	0.5	ug/L	10/05/1995	aal	3233
Toluene	ND	0.5	ug/L	10/05/1995	aal	3233
Ethylbenzene	ND	0.5	ug/L	10/05/1995	aal	3233
Xylenes (Total)	ND	0.5	ug/L	10/05/1995	aal	3233
Bromofluorobenzene (SURR)	86		% Rec.	10/05/1995	aal	3233

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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METHOD BLANK REPORT

Parameter	Method	Reporting	Units	Date	Analyst	Run
	Blank					
	Found			Analyzed	Initials	Number
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	09/27/1995	tdn	892
Bromoform	ND	0.4	ug/L	09/27/1995	tdn	892
Bromomethane	ND	0.4	ug/L	09/27/1995	tdn	892
Carbon tetrachloride	ND	0.4	ug/L	09/27/1995	tdn	892
Chlorobenzene	ND	0.4	ug/L	09/27/1995	tdn	892
Chloroethane	ND	0.4	ug/L	09/27/1995	tdn	892
2-Chloroethylvinyl ether	ND	1.0	ug/L	09/27/1995	tdn	892
Chloroform	ND	0.4	ug/L	09/27/1995	tdn	892
Chloromethane	ND	0.4	ug/L	09/27/1995	tdn	892
Dibromochloromethane	ND	0.4	ug/L	09/27/1995	tdn	892
1,2-Dichlorobenzene	ND	0.4	ug/L	09/27/1995	tdn	892
1,3-Dichlorobenzene	ND	0.4	ug/L	09/27/1995	tdn	892
1,4-Dichlorobenzene	ND	0.4	ug/L	09/27/1995	tdn	892
Dichlorodifluoromethane	ND	0.4	ug/L	09/27/1995	tdn	892
1,1-Dichloroethane	ND	0.4	ug/L	09/27/1995	tdn	892
1,2-Dichloroethane	ND	0.4	ug/L	09/27/1995	tdn	892
1,1-Dichloroethene	ND	0.4	ug/L	09/27/1995	tdn	892
cis-1,2-Dichloroethene	ND	0.4	ug/L	09/27/1995	tdn	892
trans-1,2-Dichloroethene	ND	0.4	ug/L	09/27/1995	tdn	892
1,2-Dichloropropane	ND	0.4	ug/L	09/27/1995	tdn	892
cis-1,3-Dichloropropene	ND	0.4	ug/L	09/27/1995	tdn	892
trans-1,3-Dichloropropene	ND	0.4	ug/L	09/27/1995	tdn	892
Methylene chloride	ND	10	ug/L	09/27/1995	tdn	892
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	09/27/1995	tdn	892
Tetrachloroethene	ND	0.4	ug/L	09/27/1995	tdn	892
1,1,1-Trichloroethane	ND	0.4	ug/L	09/27/1995	tdn	892
1,1,2-Trichloroethane	ND	0.4	ug/L	09/27/1995	tdn	892
Trichloroethene	ND	0.4	ug/L	09/27/1995	tdn	892
Trichlorofluoromethane	ND	0.4	ug/L	09/27/1995	tdn	892
Vinyl chloride	ND	0.4	ug/L	09/27/1995	tdn	892
1,4-Difluorobenzene (SURR)	107		% Rec.	09/27/1995	tdn	892
1,4-Dichlorobutane (SURR)	109		% Rec.	09/27/1995	tdn	892
Bromochloromethane (SURR)	N/A		% Rec.	09/27/1995	tdn	892

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike			Date Analyzed	Run Batch	Sample Spiked
	Spike % Rec.	Dup % Rec.	RPD			Spike Conc.	Dup. Conc.	Units			
METHOD 5030/8015-M (Shell)											
Purgeable TPH	108.0	110.0	1.8	0.50	ND	0.54	0.55	mg/L	09/27/1995	3205	251152
Benzene	98.8	99.5	0.7	7.78	ND	7.69	7.74	ug/L	09/27/1995	3205	251152
Toluene	102.1	103.1	1.0	28.6	ND	29.2	29.5	ug/L	09/27/1995	3205	251152
METHOD 5030/8015-M (Shell)											
Purgeable TPH	96.0	98.0	2.1	0.50	ND	0.48	0.49	mg/L	09/27/1995	3206	251250
Benzene	95.9	97.3	1.4	7.30	ND	7.00	7.10	ug/L	09/27/1995	3206	251250
Toluene	94.7	97.3	2.7	26.2	ND	24.8	25.5	ug/L	09/27/1995	3206	251250
METHOD 5030/8015-M (Shell)											
Purgeable TPH	96.0	96.0	0.0	0.5	ND	0.48	0.48	mg/L	10/03/1995	3221	251766
Benzene	109.9	99.6	9.7	4.53	ND	4.98	4.51	ug/L	10/03/1995	3221	251766
Toluene	109.7	105.5	3.9	23.7	ND	26.0	25.0	ug/L	10/03/1995	3221	251766
METHOD 5030/8015-M (Shell)											
Purgeable TPH	82.0	92.0	11.5	0.50	ND	0.41	0.46	mg/L	10/02/1995	3226	252046
Benzene	86.9	93.4	7.2	7.89	ND	6.86	7.37	ug/L	10/02/1995	3226	252046
Toluene	90.1	98.6	9.0	28.2	ND	25.4	27.8	ug/L	10/02/1995	3226	252046
METHOD 5030/8015-M (Shell)											
Purgeable TPH	76.0	72.0	5.4	0.5	0.69	1.07	1.05	mg/L	10/05/1995	3233	252076
Benzene	105.0	113.4	7.7	7.14	10	17.5	18.1	ug/L	10/05/1995	3233	252076
Toluene	95.6	96.9	1.4	22.6	4.5	26.1	26.4	ug/L	10/05/1995	3233	252076

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Client Acct: 1821
NET Job No: 95.03669

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike Dup.			Date Analyzed	Run Batch	Sample Spiked
	% Rec.	% Rec.	RPD			Conc.	Conc.	Units			
METHOD 8010 (GC,Liquid)											251172
Chlorobenzene	109.9	105.9	3.7	20.0	ND	21.97	21.18	ug/L	09/27/1995	892	251172
1,1-Dichloroethene	84.8	84.3	0.6	20.0	5.5	22.47	22.37	ug/L	09/27/1995	892	251172
Trichloroethene			0.40	20.0	150	NI2	NI2	ug/L	09/27/1995	892	251172

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KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

