

Fax: 510-547-5043 Phone 510 450-6000

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March 13, 1995

Britt Johnson Alameda County Department of Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621

> Re: Shell Service Station WIC #204-0079-0109 999 San Pablo Avenue Albany, California WA Job #81-0699-105

Dear Mr. Johnson:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1). This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 2652.d. Included below are descriptions and results of activities performed in the first quarter 1995 and proposed work for the second quarter 1995.

First 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 scheduled to be sampled this quarter. Well S-5 located immediately adjacent to the ARCO station across Marin Avenue contained 1.72 ft of separate-phase hydrocarbons, probably originating from the ARCO station, and was not sampled. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A. Wells S-2 and S-7 were also sampled for dissolved oxygen (DO) and hydrocarbon degrading microbes (HDM). Ground water samples from wells S-3 and S-7 contained 5.5 mg/L and 4.6 mg/L DO respectively, and 10³ to 10⁴ and 10⁴ to 10⁵ units/L HDM respectively.
- Weiss Associates (WA) calculated ground water elevations and compiled the analytic data (Tables 1 and 2) and prepared a ground water elevation contour, and benzene concentrations in ground water map (Figure 2).

2

Britt Johnson March 10, 1995



Anticipated Second Quarter 1995 Activities:

WA will submit a report presenting the results of the second quarter 1995 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, ground water elevations and a ground water elevation contour map.

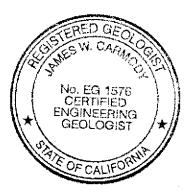
Conclusions and Recommendations:

- Since the separate-phase hydrocarbons measured in monitoring well S-5 appear to originate from the ARCO Station across Marin Avenue south of the Shell site, WA does not intend to install a hydrocarbon skimmer or bail separate-phase hydrocarbons from this well.
- HDM are present and likely to be active in the subsurface at the site. These microbes will continue to metabolize hydrocarbons in soil and ground water, regardless of additional action taken at the site.
- WA recommends continued monitoring at this time in accordance to the sampling frequency schedule originally proposed in our first quarter 1994 quarterly monitoring report.

Please call if you have any questions.

Sincerely,

Weiss Associates



Grady S. Glasser Technical Assistant

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

GSG/JWC:kam

Attachments:

A - Blaine Tech's Ground Water Monitoring Report

cc:

Dan Kirk, Shell Oil 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

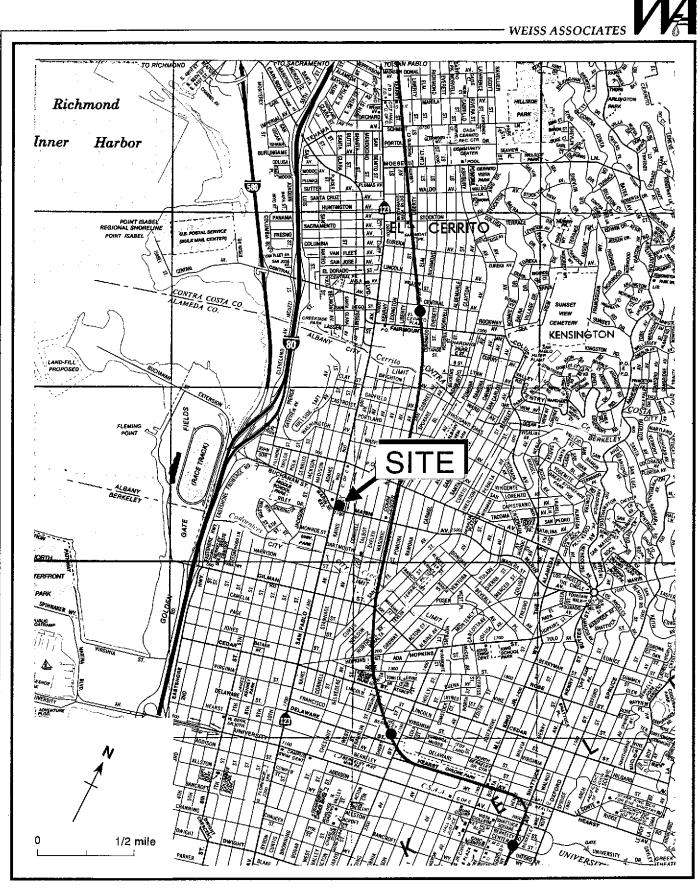


Figure 1. Site Location Map - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - January 26, 1995- Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

S699-010.ai

03/08/95

Base map from GeoStrategies Inc.

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Well ID	Date_	Top-of-Vault Elevation	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft) ^a	Ground Water Elevation (ft above msl)
S-1	05/13/91	42.73	8.24		34.49
9-1	08/23/91	72.13	8.37		34.36
	11/07/91		8.30		34.43
	01/28/92		7.84		34.89
	05/06/92		7.95		34.78
	08/26/92		8.24		34.49
	10/28/92		8.52		34.21
	01/19/93		6.54		36.19
	04/29/93		7.93		34.80
	07/22/93		8.09		34.64
	10/21/93		9.43		33.30
	01/04/94		8.25		34.48
	04/13/94		8.02	- 6-7	34.71
	07/25/94		8.22		34.51
	10/10/94		8.29		34.44
	01/26/95		6.88		35.85
S-2	05/13/91	40.73	8.50		32.23
	08/23/91		8.80	***	31.93
	11/07/91		8.61		32.12
	01/28/92		7.80		32.93
	05/06/92		8.10		32.63
	08/26/92		8.37		32.36
	10/28/92		8.64		32.09
	01/19/93		5.82		34.91
	04/29/93		7.70		33.03
•	07/22/93		8.38		32.35
	10/21/93		8.58		32.15
	01/04/94		7.70		33.03
	04/13/94		7.62		33.11
	07/25/94		7.86		32.87
	10/10/94		8.12		32.61
	01/26/95		6.38		34.35
S-3.	05/13/91	41.46	7.90		33.56
	08/23/91		8.14		33.32
	11/07/91		7.91		33.55
	01/28/92		7.53		33.93
	05/06/92		7.55		33.91
	08/26/92		7.53		33.93
	10/28/92		7.95		33.51
	01/19/93		6.12		35.34
	04/29/93		7.27		34.19

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well		Top-of-Vault	Depth to Water	Separate-Phase Hydrocarbon	Ground Water Elevation
ID	Date	Elevation	(ft)	Thickness (ft) ^a	(ft above msl)
	07/22/93		7.62		33.84
	10/21/93		7.81		33.65
	01/04/94		7.49		33.97
	04/13/94		7.32	· 	34.14
	07/25/94	•	7.66		33.80
	10/10/94		7.49		33.97
	01/26/95	400000000000000000000000000000000000000	6.50		34.96
~ 4	05/40/04	4. 40	- 44		20.66
S-4	05/13/91	41.10	7.44		33.66
	08/23/91		8.32		32.78
	11/07/91		8.32		32.78
	01/28/92		7.40		33.70
	05/06/92		7.21		33.89
	08/26/92		8.13		32.97
	10/28/92		8.73		32.37
	01/19/93		5.86		35.24
	04/29/93		7.02		34.08
	07/22/93		7.76		33.34
	10/21/93		8.53		32.57
	01/04/94		7.92		33.18
	04/13/94		7.71		33.39
	07/25/94		7.82		33.28
	10/10/94		8.15		32.95
	01/26/95		5.73		35.37
S-5	05/13/91	39.99	14.60	6.48	30.57
	08/23/91		15.14	5.50	29.25
	11/07/91		15.10	5.35	29.17
	01/28/92		14.05	4.90	29.86
	05/06/92		14.31	5.66	30.21
	08/26/92		14.26	3.80	28.77
	10/28/92		14.22	3.81	28.82
	01/19/93		12.36	3.96	30.80
	04/29/93		9.64	0.90	31.07
	07/22/93		9.55	0.90	31.16
	10/21/93		11.23	0.73	29.34
	01/04/94		11.69	1.90	29.82
	04/13/94		11.42	1.62	29.87
	07/25/94		12.01	1.79	29.41
	10/10/94		12.05	1.8	29.38
	01/26/95		8.42	1.72	32.95

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well		Top-of-Vault	Depth to Water	Separate-Phase Hydrocarbon	Ground Water Elevation
ID	Date	05/13/91 40.12 7.82		Thickness (ft) ^a	(ft above msl)
S-6	05/13/91	40.12	7.82		32.30
	08/23/91	10.12	9.58		30.54
	11/07/91		10.86		29.26
	01/28/92		8.97		31.15
	05/06/92		8.27		31.85
	08/26/92		9.57		31.55
	10/28/92		8.90		32.22
	01/19/93		4.84		35.28
	04/29/93		5.61		34.51
	07/22/93		6.56		33.56
	10/21/93		8.73		31.39
	01/04/94		7.14		32,98
	04/13/94		7.21		32.91
	07/25/94		6.85		33.27
	10/10/94		6.20		33.92
	01/26/95		4.89		35.23
S-7	05/13/91	40.10	10.56		29.54
	08/23/91		11.16		28.94
	11/07/91		11.48		28.62
	01/28/92		10.72		29.38
	05/06/92		10.34		29.76
	08/26/92		11.13		28.97
	10/28/92		11.52		28.58
	01/19/93		8.68		31.42
	04/29/93		9.90		30.20
	07/22/93				
	10/21/93		11.10	***	29.00
	01/04/94		10.40	***	29.70
	04/13/94		10.20	~~~	29.90
	07/25/94		10.48		29.62
	10/10/94		10.64		29.46
	01/26/95		7.75		32.35

Notes:

a = When separate-phase hydrocarbons are present, ground water elevation corrected by the relation: corrected ground water elevation = (top-of-box elevation) - (depth to water) + (0.8 x separate-phase hydrocarbon thickness)

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Well ID & Sampling	Data	Depth to	TPH-G	В	T	E	Х	Dissolved Oxygen	HDM Units
Frequency	Date	Water (ft)		part part	s per billion (μ	g/L)		←parts per m	illion (mg/L)→
S-1	05/13/91	8.24	1,500	20	2.6	86	74		
(Bi-annually,	08/23/91	8.37	2,900	27	< 2.5	75	18		
1st & 3rd	11/07/91	8.30	2,900	8	2.5	46	26		
Qtrs)	01/28/92	7.84	2,000	11	< 2.5	60	20		
	05/06/92	7.95	1,200	5.5	< 2.5	80 -	36		
	07/29/93	8.24	2,000	9.4	< 2.5	130	< 2.5		
	10/28/92	8.52	1,300	27	3.2	72	13		
	01/19/93	6.54	1,500	13	3 .	29	31		
	04/29/93	7.93	2,000	15	< 2.5	82	<65		
	07/22/93	8.09	620	1.1	4.2	3.5	13		
	10/21/93	9.43	1,200	34	25	15	9.5		
	01/04/94	8.25	860	< 2.5	< 2.5	5.7	5.3		
	07/25/94	8.22	1,200	8.3	7.4	15	20		
	01/26/95	6.88	1,000	12	0.6	12	420		
S-2	05/13/91	8.50	23,000	3,900	230	1,100	3,200		
(Bi-annually,	08/23/91	8.80	23,000	4,400	260 260	1,100	2,400		
1st & 3rd	11/07/91	8.61	40,000	4,000	160	1,900	3,400		
Qtrs)	01/28/92	7.80	22,000	1,600	70	420	1,700		
Quis)	05/06/92	8.10	20,000	2,600	110	860	1,700		
	07/29/92	8.37	42,000	5,000	160	1,100	3,500		
	10/28/92	8.64	34,000	4,800	. 330	1,600	2,900		
	01/19/93	5.82	20,000	2,300	370	660	1,300		
	04/29/93	7.70	40,000	2,000	67	900	1,900		
	07/22/93	8.38	22,000	3,000	120	1,000	1,600		
	07/22/93 ^{dup}	8.38	17,000	3,000	110	1,000	1,500	•••	
	10/21/93	8.58	14,000	2,800	74	870	1,100		
	10/21/93 ^{dup}	8.58	13,000	3,200	53	960	820		
	01/04/94	7.70	21,000	2,100	67	990	770		

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Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling	Data	Depth to	TPH-G	В	T	E	X	Dissolved Oxygen	HDM Units
Frequency	Date	Water (ft)		part:	s per billion (με	2/L)		←parts per m	illion (mg/L) \rightarrow
	01/04/94 ^{dup}	7.70	22,000	2,000	64	910	750		
	07/25/94	7.86	43,000	2,600	490	990	1,300		
	01/26/95	6.38	21,000	790	12	290	570	5.5	10 ⁴ to 10 ^{5 ab}
S-3	05/13/91	7.90	3,300	30	3.6	26	13		
(Bi-annually,	08/23/91	8.14	2,000	25	4	9.3	4.5		
1st & 3rd	11/07/91	7.91	4,000	20	3.9	5	4.9		
Qtrs)	01/28/92	7.53	2,100	21	7.6	6.7	15		
- /	01/28/92 ^{dup}	7.53	2,100	18	6.1.	7.1	14		
	05/06/92	7.55	6,600	38	51	45	65		
	07/29/92	7.53	5,800	18	12	29	60		
	10/28/92	7.95	3,000	55	11	16	32		
	01/19/93	6.12	3,100	< 5	5.1	11	16		
	04/29/93	7.27	3,000	31	22	<5	14		
	07/22/93	7.62	2,600	3.1	43	23	53		
	10/21/93	7.81	2,500	73	14	16	32		
	01/04/94	7.49	4,800	13	21	<12.5	33		
	07/25/94	7.66	2,600	6.1	4.0	3.8	12		
	01/26/95	6.50	3,600	30	6.8	5.6	19		
	01/26/95 ^{dup}	6.50	2,200	9,9	15	14	22		
S-4	05/13/91	7.44	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
(Annually 1st	08/23/91	8.32	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
Qtr)	11/07/91	8.32	260	< 0.5	< 0.5	< 0.5	< 0.5		
	01/28/92	7.40	110°	< 0.5	< 0.5	< 0.5	< 0.5		
	05/06/92	7.21	54	< 0.5	< 0.5	< 0.5	< 0.5	—— —	
	07/29/92	8.13	67	< 0.5	< 0.5	< 0.5	< 0.5		
	10/28/92	8.73	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	01/19/93	5.86	86	1.2	0.7	2.7	15		

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Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling	.	Depth to	TPH-G	В	T	E	x	Dissolved Oxygen	HDM Units
Frequency	Date	Water (ft)		part	s per billion (µg	g/L)		←parts per n	nillion (mg/L)→
	04/29/93	7.02	< 50	<0.5	< 0.5	< 0.5	< 0.5		
	04/29/93 ^{dup}	7.02	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	07/22/93	7.76	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	10/21/93	8.53	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	01/04/94	7.92	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	01/26/95	5,73	< 50	<0.5	< 0.5	< 0.5	< 0.5		
S-5	05/13/91 ^{SPH}	14.60							
(Quarterly)	08/23/91 ^{SPH}	15.14							
	11/07/91 ^{SPH}	15.10			<i>-</i>				
	01/28/92 ^{SPH}	14.05							
	05/06/92 ^{SPH}	14.31							
	07/29/92 ^{SPH}	14.26							
	10/28/92 ^{SPH}	14.22							-
	01/19/93 ^{SPH}	12.36							
	04/29/93 ^{SPH}	9.64							
	07/22/93 ^{SPH}	9.55							
	10/21/93 ^{SPH}	11.23	, 						
	01/04/94 ^{SPH}	11.69							
	07/25/94 ^{SPH}	12.01		N					
	10/10/94 ^{SPH}	12.05							
	01/26/95 ^{SPH}	9.80	de de e <mark>ta</mark> libre	a de Color de Societa				and a r dis	Au d it .
S-6	05/13/91	7.82	13,000	600	140	210	310		
(Bi-annually,	08/23/91	9.58	9,800	480	80	120	150		
1st & 3rd	11/07/91	10.86	6,200	240	23	25	27		
Qtrs)	01/28/92	8.97	5,600	250	15	41	36		
	05/06/92	8.27	7,100	330	29	110	210		
	07/29/92	9.57	13,000	240	< 50	56	780		

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Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling		Depth to	TPH-G	В	T	E	x	Dissolved Oxygen	HDM Unit
Frequency	Date	Water (ft)		parts	s per billion (µg	g/L)		←parts per n	nillion (mg/L) \rightarrow
	10/28/92	8.90	10,000	470	210	67	170		
	01/19/93	4.84	4,800	100	26	27	45		
	04/29/93	5.61	7,000	430	20	<12.5	42		
	07/22/93	6.56	5,800	260	120	65	150		
	10/21/93	8.73	5,500	270	69	120	140		
	01/04/94	7.14	7,100	180	58	63	62		
	07/25/94	6.85	12,000	190	52	30	39		
	07/25/94 ^{dup}	6.85	7,200	170	32	31	34		
	01/26/95	4.89	5,800	120	23	24	44		
S-7	05/13/91	10.56	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
(Quarterly)	08/23/91	11.16	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	11/07/91	11.48	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	01/28/92	10.72	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	05/06/92	10.34	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	07/29/92	11.13	160	< 0.5	< 0.5	< 0.5	< 0.5		
	10/28/92	11.52	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	01/19/93	8.68	50	1.1	0.6	1.9	9.2		
	04/29/93	9.90	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	07/22/93 ^d								
	10/21/93	11.10	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	01/04/94	10.40	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	04/13/94	10.20	< 50	1.4	0.61	< 0.5	0.64		
	04/13/94 ^{dup}	10.20	< 50	1.4	0.61	< 0.5	0.66		
	07/25/94	10.48	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	10/10/94°	10.64	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	01/26/95	7.75	< 50	< 0.5	< 0.5	< 0.5	< 0.5	4.6	10 ³ to 10 ^{5 a}

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B parts	Τ s per billion (μg	E	X	Dissolved Oxygen	HDM Units
requency	Date	Water (It)		parts	per omion (µg	(/L) ——		paris per n	millon (ing/L)
Trip Blank	01/28/92		. <50	< 0.5	< 0.5	< 0.5	< 0.5		
	04/29/93		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	07/22/93		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	10/21/93		< 50	< 0.5	< 0.5	< 0.5	< 0.5		·
	01/04/94		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	04/13/94		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	07/25/94		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	10/10/94		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	01/26/95		< 50	< 0.5	0.7.	< 0.5	< 0.5		
DTSC MCLs			NE	1	10 ^f	680	1,750		

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015

B = Benzene by EPA Method 8020

T = Toluene by EPA Method 8020

E = Ethylbenzene by EPA Method 8020

X = Xylenes by EPA Method 602 or 8020

-- = Not analyzed

DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water

NE = Not established

< n = Not detected at detection limits of n ppb

dup = Duplicate sample

SPH = Separate-phase hydrocarbons detected, no sample collected

Notes:

a = Simple method

b = Estimated number

 c = Compounds detected and calculated as gasoline are not characteristic of the standard gasoline chromatographic pattern

d = Well inaccessible

e = Sample analyzed for Total Dissolved Solids (450,000 ppb)

f = DTSC recommended action level for drinking water; MCL not established

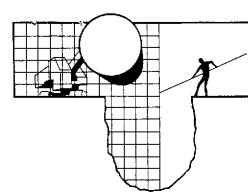


ATTACHMENT A

GROUND WATER MONITORING REPORT AND ANALYTIC REPORT

ATTACHMENT B

SAMPLING FREQUENCY CRITERIA



BLAINE TECH SERVICES INC.

985 TIMOTHY DRIV SAN JOSE, CA 9513 (408) 995-553 FAX (408) 293-877

February 13, 1995

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

Attn: Daniel T. Kirk

SITE: Shell WIC #204-0079-0109 999 San Pablo Avenue Albany, California

QUARTER: 1st quarter of 1995

QUARTERLY GROUNDWATER SAMPLING REPORT 950126-L-1

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water water may be removed in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty-four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such site is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company Chain of Custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the Chain of Custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #178.

Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

RCBlp

Attachments: table of well gauging data

chain of custody

certified analytical report

cc: Weiss Associates

5500 Shellmound Street Emeryville, CA 94608-2411

ATTN: Michael Asport

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)
S-1	1/26/95	TOB		NONE	- .	<u></u>	6.88	11.95
\$-2	1/26/95	TOB	SHEEN/ODOR			-	6.38	12,08
S-3 *	1/26/95	TOB	SHEEN/ODOR		_	••	6.50	12.15
S-4	1/26/95	TOB	_	NONE		**	5.73	14.14
S-5	1/26/95	TOB	FREE PRODUCT	8.08	1.72	0.00	9.80	-
S-6	1/26/95	TOB	SHEEN/ODOR			_	4.89	15.15
S-7	1/26/95	TOB		NONE	-	-	7.75	15.01

^{*} Sample DUP was a duplicate sample taken from well S-3.

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204-0079-0109 nell Engineer: Dan Kirk Onsullon! Name & Address: Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA 95133 consullan! Contact: Jim Keller Comments: Phone No.: (408 995-5535 Fax #: 293-8773								s Mod. Diesel).	8020/602)	nics (EPA 8240)	ğ	TPH 8015 & BTEX 8020					Pæ	N/A	Sie investigation Soit Clossify/Disposat Water Clossify/Disposat Soif/Air Rem. or Sys. Of A M	5441 24 hours
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Santa Rosa Division 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

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

Date: 02/07/1995

NET Client Acct. No: 1821 NET Pacific Job No: 95.00426

Received: 01/27/1995

Client Reference Information

Shell 999 San Pablo Avenue, Albany/950126-L1

Sample analysis in support of the project referenced above has been completed and results are presented on 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 welcome to contact Client Services.

Approved by:

Project Coordinator

Operations Manager

Enclosure(s)





Client Acct: 1821 NET Job No: 95.00426 Date: 02/07/1995

ELAP Cert: 1386 Page: 2

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

SAMPLE DESCRIPTION: S-1

Date Taken: 01/26/1995

Time Taken:

NET Sample No: 234796

MEI Sample NO: 234/96								Run
			Reportin	9		Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE, Liquid)								
METHOD 5030/M8015							01/31/1995	2550
DILUTION FACTOR*	1						01/31/1995	2550
as Gasoline	1,000		50	ug/L	5030		01/31/1995	2550
Carbon Range:	C5-C12						01/31/1995	2550
METHOD 8020 (GC, Liquid)							01/31/1995	2550
Benzene	12		0.5	ug/L	8020		01/31/1995	2550
Toluene	0.6		0.5	ug/L	8020		01/31/1995	2550
Ethylbenzene	12		0.5	ug/L	8020		01/31/1995	2550
Xylenes (Total)	420	FC	0.5	ug/L	8020		02/01/1995	2553
SURROGATE RESULTS							01/31/1995	2550
Bromofluorobenzene (SURR)	104			% Rec.	5030		01/31/1995	2550

FC : Compound quantitated at a 10% dilution factor.



Client Acct: 1821 NET Job No: 95.00426 Date: 02/07/1995

ELAP Cert: 1386 Page: 3

Ref: Shell 999 San Pablo Avenue, Albany/950126-Ll

SAMPLE DESCRIPTION: S-2

Date Taken: 01/26/1995

Time Taken:

NET Sample No: 234797					•			Run
			Reporting			Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015							01/31/1995	2550
DILUTION FACTOR*	10						02/01/1995	2553
as Gasoline	21,000		500	ug/L	5030		02/01/1995	2553
Carbon Range:	C5-C14						02/01/1995	2553
METHOD 8020 (GC, Liquid)							01/31/1995	2550
Benzene	790	FF	5	ug/L	8020		01/31/1995	2550
Toluene	12		5	ug/L	8020		02/01/1995	2553
Ethylbenzene	290	FF	5	ug/L	8020		01/31/1995	2550
Xylenes (Total)	570	FF	5	ug/L	8020		01/31/1995	2550
SURROGATE RESULTS				•			01/31/1995	2550
Bromofluorobenzene (SURR)	97			% Rec.	5030		01/31/1995	2550

FF : Compound quantitated at a 100% dilution factor.



Client Acct: 1821 NET Job No: 95.00426 Date: 02/07/1995

02/01/1995 2553

ELAP Cert: 1386

Page: 4

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

SAMPLE DESCRIPTION: S-3

Date Taken: 01/26/1995

Time Taken:

Bromofluorobenzene (SURR)

NET Sample No: 234798							Run
		Reporti	Date	Date	Batch		
Parameter	Results Flaq	3 Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015						02/01/1995	2553
DILUTION FACTOR*	5					02/01/1995	2553
as Gasoline	3,600	250	ug/L	5030	•	02/01/1995	2553
Carbon Range:	C5-C14					02/01/1995	2553
METHOD 8020 (GC, Liquid)	<u> </u>					02/01/1995	2553
Benzene	30	2.5	ug/L	8020		02/01/1995	2553
Toluene	6.8	2.5	ug/L	8020		02/01/1995	2553
Ethylbenzene	5.6	2.5	ug/L	8020		02/01/1995	2553
Xylenes (Total)	19	2.5	ug/L	8020		02/02/1995	2554
SURROGATE RESULTS						02/01/1995	2553

% Rec.

5030



Client Acct: 1821 NET Job No: 95.00426 Date: 02/07/1995

ELAP Cert: 1386 Page: 5

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

SAMPLE DESCRIPTION: S-4

Date Taken: 01/26/1995

Time Taken:

NET Sample No: 234799								Run
			Reportin	g		Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE, Liquid)								
METHOD 5030/M8015	~ ~						01/31/1995	2550
DILUTION FACTOR*	1						01/31/1995	2550
as Gasoline	ND		50	ug/L	5030		01/31/1995	2550
Carbon Range:							01/31/1995	2550
METHOD 8020 (GC, Liquid)				•			01/31/1995	2550
Benzene	ND		0.5	ug/L	8020		01/31/1995	2550
Toluene	ND		0.5	ug/L	8020		01/31/1995	2550
Ethylbenzene	ND		0.5	ug/L	8020		01/31/1995	2550
Xylenes (Total)	ND		0.5	ug/L	8020		01/31/1995	2550
SURROGATE RESULTS							01/31/1995	2550
Bromofluorobenzene (SURR)	90			% Rec.	5030		01/31/1995	2550



Client Acct: 1821

NET Job No: 95.00426

Date: 02/07/1995

ELAP Cert: 1386 Page: 6

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

SAMPLE DESCRIPTION: S-6

Date Taken: 01/26/1995

Time Taken:

MET Squipte NO: 534800								kun
			Reportin	9		Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE, Liquid)								
METHOD 5030/M8015							02/01/1995	2553
DILUTION FACTOR*	10						02/01/1995	2553
as Gasoline	5,800		500	ug/L	5030		02/01/1995	2553
Carbon Range:	C5-C14						02/01/1995	2553
METHOD 8020 (GC, Liquid)							02/01/1995	2553
Benzene	120		5	ug/L	8020		02/01/1995	2553
Toluene	23		5	ug/L	8020		02/01/1995	2553
Ethylbenzene	24		5	ug/L	8020		02/01/1995	2553
Xylenes (Total)	44		5	ug/L	8020		02/01/1995	2553
SURROGATE RESULTS							02/01/1995	2553
Bromofluorobenzene (SURR)	94			% Rec.	5030		02/01/1995	2553



Client Acct: 1821 NET Job No: 95.00426 Date: 02/07/1995

ELAP Cert: 1386 Page: 7

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

SAMPLE DESCRIPTION: S-7

Date Taken: 01/26/1995

Time Taken:

NET Sample No: 234801						Run	
		Reporti	Date	Date	Batch		
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015						01/31/1995	2550
DILUTION FACTOR*	1					01/31/1995	2550
as Gasoline	ND	50	ug/L	5030		01/31/1995	2550
Carbon Range:						01/31/1995	2550
METHOD 8020 (GC, Liquid)						01/31/1995	2550
Benzene	ND	0.5	ug/L	8020		01/31/1995	2550
Toluene	ND	0.5	ug/L	8020		01/31/1995	2550
Ethylbenzene	ND	0.5	ug/L	8020		01/31/1995	2550
Xylenes (Total)	ND	0.5	ug/L	8020		01/31/1995	2550
SURROGATE RESULTS						01/31/1995	2550
Bromofluorobenzene (SURR)	88		% Rec.	5030		01/31/1995	2550



Client Acct: 1821 NET Job No: 95.00426 Date: 02/07/1995

ELAP Cert: 1386 Page: 8

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

SAMPLE DESCRIPTION: DUP

Date Taken: 01/26/1995

Time Taken:

NEI SEMPIE NO: 234602							Run
		Reportin	ıg		Date	Date	Batch
Parameter	Results Flag	s Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015						02/01/1995	2553
DILUTION FACTOR*	10					02/01/1995	2553
as Gasoline	2,200	500	ug/L	5030		02/01/1995	2553
Carbon Range:	C5-C14					02/01/1995	2553
METHOD 8020 (GC, Liquid)						02/01/1995	2553
Benzene	9.9	5	ug/L	8020		02/01/1995	2553
Toluene	15	5	ug/L	8020		02/01/1995	2553
Ethylbenzene	14	5	ug/L	8020		02/01/1995	2553
Xylenes (Total)	22	5	ug/L	8020		02/01/1995	2553
SURROGATE RESULTS						02/01/1995	2553
Bromofluorobenzene (SURR)	92		% Rec.	5030		02/01/1995	2553



Client Acct: 1821 NET Job No: 95.00426 Date: 02/07/1995

ELAP Cert: 1386 Page: 9

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

SAMPLE DESCRIPTION: EB

Date Taken: 01/26/1995

Time Taken:

MEL Sample MO: 534803								Run
			Reportin	g		Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/MB015							01/31/1995	2550
DILUTION FACTOR*	1						01/31/1995	2550
as Gasoline	ND		50	ug/L	5030		01/31/1995	2550
Carbon Range:							01/31/1995	2550
METHOD 8020 (GC, Liquid)							01/31/1995	2550
Benzene	ND		0.5	ug/L	8020		01/31/1995	2550
Toluene	ND		0.5	ug/L	8020		01/31/1995	2550
Ethylbenzene	ND		0.5	ug/L	8020		01/31/1995	2550
Xylenes (Total)	ND		0.5	ug/L	8020		01/31/1995	2550
SURROGATE RESULTS							01/31/1995	2550
Bromofluorobenzene (SURR)	87			% Rec.	5030		01/31/1995	2550



Client Acct: 1821 NET Job No: 95.00426 Date: 02/07/1995

ELAP Cert: 1386 Page: 10

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

SAMPLE DESCRIPTION: TB

Date Taken: 01/26/1995

Time Taken:

NET Sample No: 234804								Run
			Reporting	Į.		Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015							01/31/1995	2550
DILUTION FACTOR*	1						01/31/1995	2550
as Gasoline	ND		50	ug/L	5030		01/31/1995	2550
Carbon Range:	~ ~						01/31/1995	2550
METHOD 8020 (GC, Liquid)							01/31/1995	2550
Benzene	ND		0.5	ug/L	8020		01/31/1995	2550
Toluene	0.7	C	0.5	ug/L	8020		01/31/1995	2550
Ethylbenzene	ND		0.5	ug/L	8020		01/31/1995	2550
Xylenes (Total)	ND		0.5	ug/L	6020		01/31/1995	2550
SURROGATE RESULTS							01/31/1995	2550
Bromofluorobenzene (SURR)	92			% Rec.	5030		01/31/1995	2550

 $^{{\}tt C}$: Positive result confirmed by secondary column or ${\tt GC/MS}$ analysis.



Date: 02/07/1995

ELAP Cert: 1386

Page: 11

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

		CCA	CCV				
	CCV	Standard	Standard				Run
•	Standard	Amount	Amount		Date	Analyst	Batch
<u>Parameter</u>	<pre>% Recovery</pre>	Pound	Expected	Units	Analyzed	Initials	Number
TPH (Gas/BTXE, Liquid)							
as Gasoline	105.0	1.05	1.00	mg/L	01/31/1995	dfw	2550
Benzene	88.8	4.44	5.00	ug/L	01/31/1995	dfw	2550
Toluene	88.6	4.43	5.00	ug/L	01/31/1995	dfw	2550
Ethylbenzene	85.0	4.25	5.00	ug/L	01/31/1995	dfw	2550
Xylenes (Total)	88.7	13.3	15.0	ug/L	01/31/1995	dfw	2550
Bromofluorobenzene (SURR)	97.0	97	100	% Rec.	01/31/1995	dfw	2550
TPH (Gas/BTXE, Liquid)							
as Gasoline	99.0	0.99	1.00	mg/L	02/01/1995	aal	2553
Benzene	100.2	5.01	5.00	ug/L	02/01/1995	aal	2553
Toluene	97.6	4.88	5,00	ug/L	02/01/1995	aal	2553
Ethylbenzene	87.4	4.37	5,00	ug/L	02/01/1995	aal	2553
Xylenes (Total)	98.7	14.8	15.0	ug/L	02/01/1995	aal	2553
Bromofluorobenzene (SURR)	92.0	92	100	% Rec.	02/01/1995	aal	2553
TPH (Gas/BTXE,Liquid)							
as Gasoline	115.0	1.15	1.00	mg/L	02/02/1995	dfw	2554
Benzene	95.6	4.78	5.00	ug/L	02/02/1995	dfw	2554
Toluene	96.0	4.80	5.00	ug/L	02/02/1995	dfw	2554
Ethylbenzene	94.8	4.74	5.00	ug/L	02/02/1995	dfw	2554
Xylenes (Total)	94.7	14.2	15.0	ug/L	02/02/1995	dfw	2554
Bromofluorobenzene (SURR)	111.0	111	100	% Rec.	02/02/1995	dfw	2554



Date: 02/07/1995

ELAP Cert: 1386

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

METHOD BLANK REPORT

	Method					
	Blank	•				Run
	Amount	Reporting		Date	Analyst	Batch
Parameter	Found	Limit	Units	Analyzed	Initials	Number
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	01/31/1995	dfw	2550
Benzene	ND	0.5	ug/L	01/31/1995	dfw	2550
Toluene	ND	0.5	ug/L	01/31/1995	dfw	2550
Ethylbenzene	ND	0.5	ug/L	01/31/1995	dfw	2550
Xylenes (Total)	ND	0.5	ug/L	01/31/1995	dfw	2550
Bromofluorobenzene (SURR)	82		% Rec.	01/31/1995	dfw	2550
TPH (Gas/BTXE, Liquid)						
as Gasoline	ND	0.05	mg/L	02/01/1995	aal	2553
Benzene	ND	0.5	ug/L	02/01/1995	aal	2553
Toluene	ND	0.5	ug/L	02/01/1995	aal	2553
Ethylbenzene	ND	0.5	ug/L	02/01/1995	aal	2553
Xylenes (Total)	ИÐ	0.5	ug/L	02/01/1995	aal	2553
Bromofluorobenzene (SURR)	89		% Rec.	02/01/1995	aal	2553
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	02/02/1995	dfw	2554
Benzene	ND	0.5	ug/L	02/02/1995	dfw	2554
Toluene	ND	0.5	ug/L	02/02/1995	dfw	2554
Ethylbenzene	ND	0.5	սց/և	02/02/1995	đ£w	2554
Xylenes (Total)	ND	0.5	ug/L	02/02/1995	dfw	2554
Bromofluorobenzene (SURR)	102		% Rec.	02/02/1995	dfw	2554



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Date: 02/07/1995

Ref: Shell 999 San Pablo Avenue, Albany/950126-L1

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

		Matrix					Matrix				•
-	Matrix	Spike				Matrix	Spike				
	Spike	Dup		Spike	Sample	Spike	Dup.		Date	Run	Sample
Parameter	% Rec.	% Rec.	RPD	Amount	Conc.	Conc.	Conc.	Units	Analyzed	Batch	Spiked
TPH (Gas/BTXE, Liquid)											234803
as Gasoline	93.0	89.0	4.4	1.00	ND	0.93	0.89	mg/L	01/31/1995	2550	234803
Benzene	92.8	90.3	2.7	27.9	ND	25.9	25.2	ug/L	01/31/1995	2550	234803
Toluene	94.0	89.9	4.5	88.2	ND	82.9	79.3	ug/L	01/31/1995	2550	234803
TPH (Gas/BTXE, Liquid)											234882
as Gasoline	B6.0	89.0	3.4	1.00	ND	0.86	0.89	mg/L	02/01/1995	2553	234882
Benzene	92.1	91.4	0.8	27.8	ND	25.6	25.4	ug/L	02/01/1995	2553	234882
Toluene	90.1	86.2	4.4	B2.0	ND	73.9	70.7	ug/L	02/01/1995	2553	234882
TPH (Gas/BTXE, Liquid)											234878
as Gasoline	122.0	121.0	0.8	1.00	ND	1.22	1.21	mg/L	02/02/1995	2554	234878
Benzene	108.9	107.9	0.9	20.3	ND	22.1	21.9	ug/L	02/02/1995	2554	234878
Toluene	108.9	109.2	0.3	83.6	ND	91.0	91.3	ug/L	02/02/1995	2554	234878

COOLER RECEIPT FORM

Were custody papers present? Were custody papers properly filled out? Were the custody papers signed? Was sufficient ice used? Did all bottles arrive in good condition (unbroken)? Were proper bottles used for analysis indicated? WOA vials checked for headspace bubbles? Note which voas (if any) had bubbles:* Sample descriptor: Number of vials: West no Note which voas (if any) had bubbles:* Number of vials: West no Note which voas (if any) had bubbles:* Number of vials: West no Note which voas (if any) had bubbles:* Number of vials: West no Note which voas (if any) had bubbles:* Number of vials: West no Note which voas (if any) had bubbles:* Number of vials: West no Note which voas (if any) had bubbles:* Number of vials: West no Note which voas (if any) had bubbles:* Number of vials: West no Note which voas (if any) had bubbles:* Number of vials: West no Number of vials: West no Note which voas (if any) had bubbles:* Number of vials: Number of vials: Number of vials: Number of vials: Number of vials: Number of vials:	Project: 950126-LI Log No: 5253
Were custody papers present?	FIAM CHICAL
Were custody papers properly filled out?	(signature)
Was sufficient ice used?	Were custody papers present?
Was sufficient ice used?	were custody papers properly filled out?YES NO
Did all bottles arrive in good condition (unbroken)? YES NO Did bottle labels match COC? YES NO Were proper bottles used for analysis indicated? YES NO Correct preservatives used? YES NO NOA vials checked for headspace bubbles? YES NO Note which voas (if any) had bubbles:* Sample descriptor: Number of vials: *All VOAs with headspace bubbles have been set aside so they will not be used for analysis YES NO Cist here all other jobs received in the same cooler:	
Were proper bottles used for analysis indicated?YES NO Correct preservatives used?	Was sufficient ice used? YES NO Temp 0.9
Were proper bottles used for analysis indicated? YES NO Correct preservatives used? YES NO Note which voas (if any) had bubbles:* Sample descriptor: Number of vials: Wall VOAs with headspace bubbles have been set aside so they will not be used for analysis. YES NO List here all other jobs received in the same cooler:	Did all bottles arrive in good condition (unbroken)?YES NO
Correct preservatives used?	Did bottle labels match COC?YES NO
Note which voas (if any) had bubbles:* Sample descriptor: Number of vials: *All VOAs with headspace bubbles have been set aside so they will not be used for analysis. YES NO *All voas with headspace bubbles have been set aside so they will not be used for analysis. YES NO	Were proper bottles used for analysis indicated?YES) NO
Note which voas (if any) had bubbles:* Sample descriptor: Number of vials: *All VOAs with headspace bubbles have been set aside so they will not be used for analysis	Correct preservatives used?
*All VOAs with headspace bubbles have been set aside so they will not be used for analysis	VOA vials checked for headspace bubbles?
List here all other jobs received in the same cooler:	Sample descriptor: Number of vials:
List here all other jobs received in the same cooler:	
List here all other jobs received in the same cooler:	
List here all other jobs received in the same cooler:	
List here all other jobs received in the same cooler:	
List here all other jobs received in the same cooler:	
List here all other jobs received in the same cooler:	
List here all other jobs received in the same cooler:	
	All VOAs with headspace bubbles have been set aside so they will not be used for analysisYES NO
	ich home all abban to
Client Job # NET log #	
	Client Job # NET log #

(coolerrec)