



RECEIVED
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February 9, 1996

Susan Hugo
Alameda County Department of
Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway,
Suite 250
Alameda, CA 94502-6577

LOP 3/6/8

Re: **Fourth Quarter 1995**
Shell Service Station
WIC #204-5510-0303
5755 Broadway
Oakland, California 94606
WA Job #81-0619-205

Dear Ms. Hugo:

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

HYDROCARBON AND GROUND WATER REMOVAL SUMMARY		
<i>Fluid</i>	<i>Removed this Quarter</i>	<i>Total Removed</i>
Separate Phase	0.0 (lbs)	0.55 (lbs)
Ground Water with Dissolved Hydrocarbons	8,000 (gals)	283,238 (gals)

Fourth 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. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- WA calculated ground water elevations, compiled the analytic data (Tables 1 through 3) and prepared a ground water elevation contour and benzene concentrations in ground water map (Figure 2).

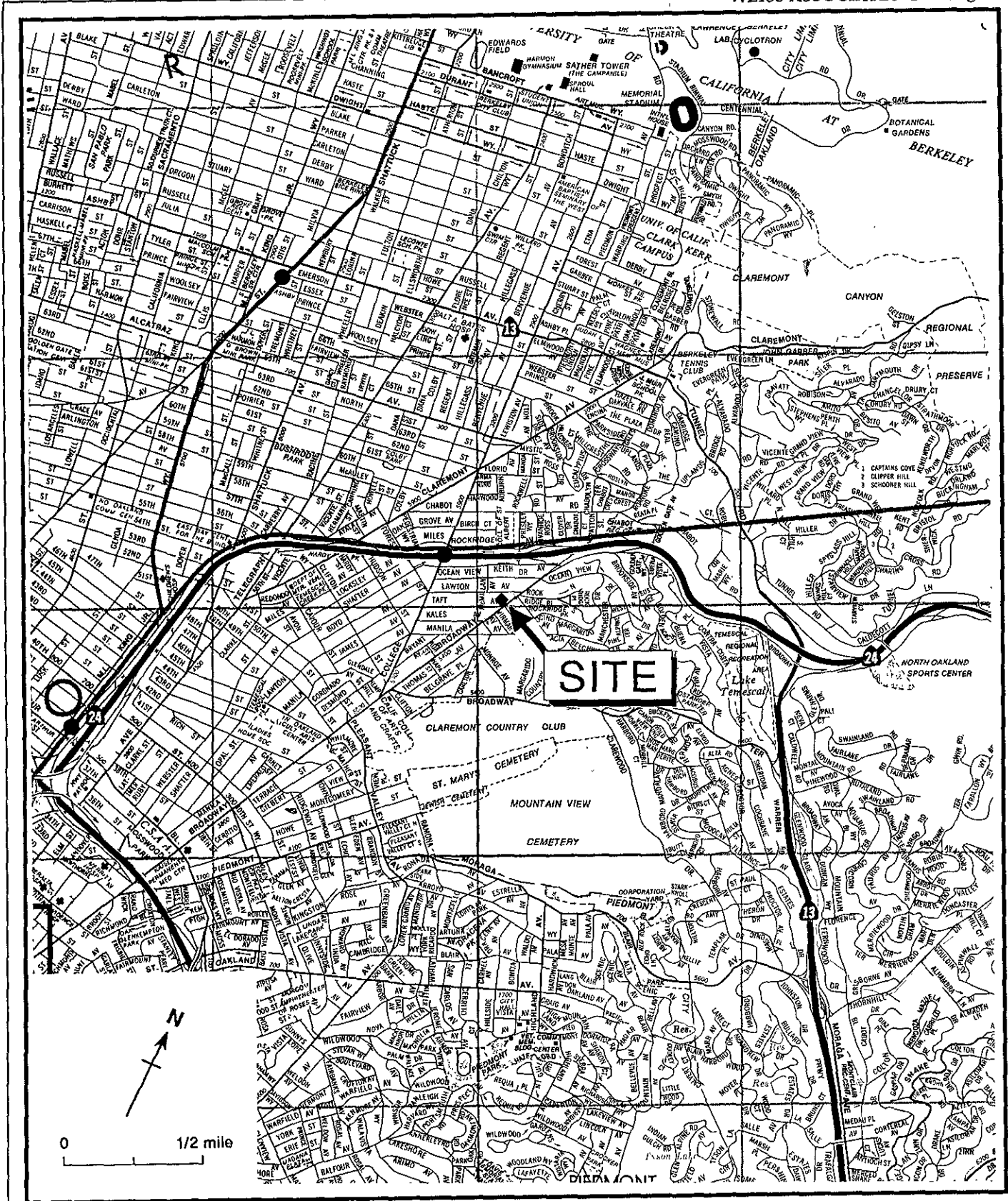


Figure 1. Site Location Map - Shell Service Station WIC #204-5510-0303, 5755 Broadway, Oakland, California

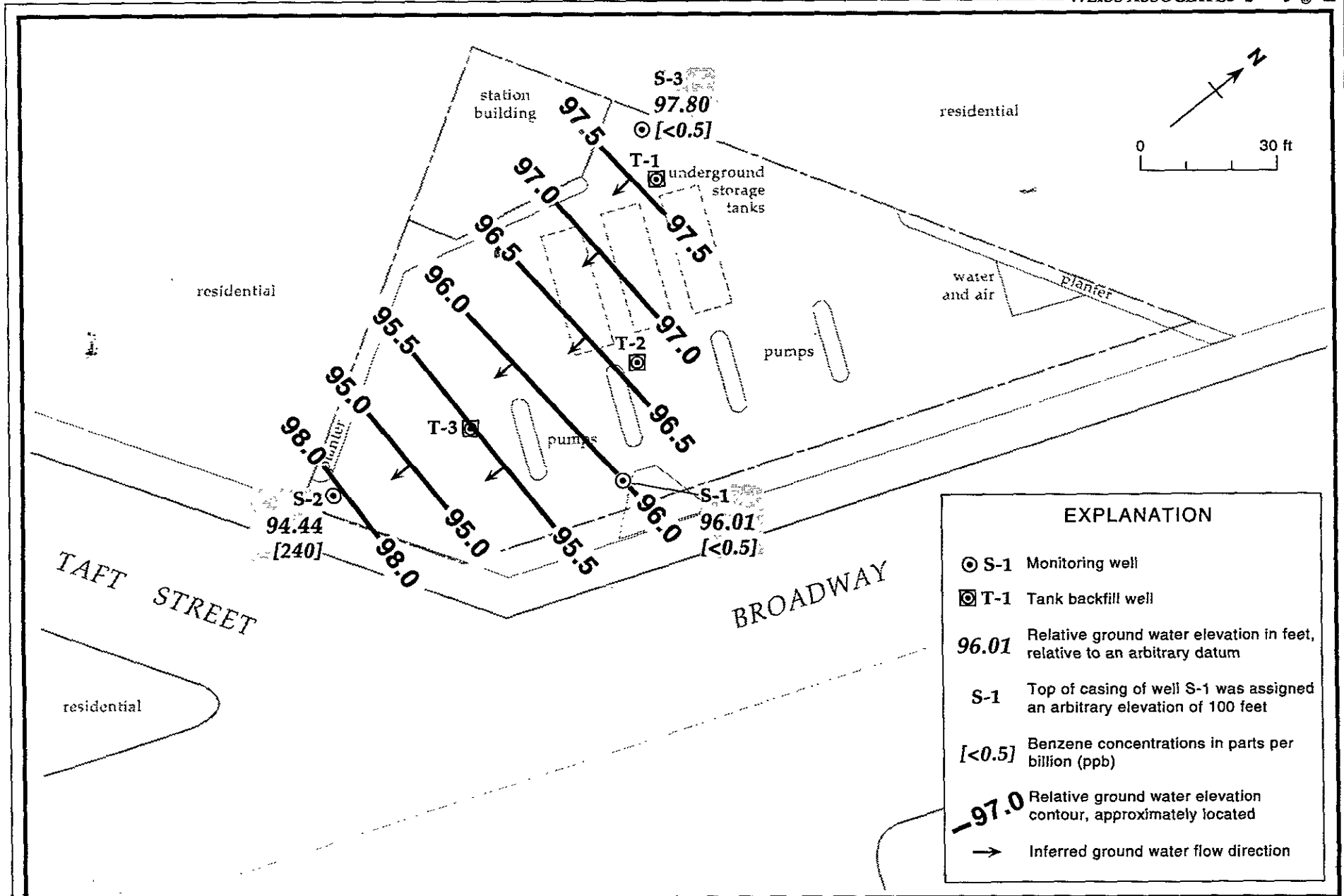


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - November 28, 1995 - Shell Service Station WIC#204-2004-0204, 5755 Broadway, Oakland, California

Table 1. Ground Water Elevations - Shell Service Station WIC #504-5510-0303,
5755 Broadway, Oakland, California

Well ID	Date	Top-of-Casing Elevation	Depth to Water (ft)	Ground Water Elevation (ft)
S-1	01/25/91	100.00	3.88	96.12
	06/03/91		3.51	96.49
	08/30/91		4.24	95.76
	11/22/91		4.29	95.71
	03/13/92		2.87	97.13
	05/28/92		3.79	96.21
	08/19/92		4.43	95.57
	11/18/92		4.34	95.66
	02/10/93		4.20	95.80
	06/11/93		3.39	96.61
	08/03/93		3.69	96.31
	11/02/93		4.26	95.74
	12/16/93		2.73	97.27
	02/01/94		3.38	96.62
	05/04/94		3.00	97.00
	08/18/94		3.70	96.30
	11/09/94		2.52	97.48
	02/22/95		4.08	95.92
	05/02/95		2.58	97.42
	08/30/95		3.48	96.52
11/28/95	3.99	96.01		
S-2	01/25/91	98.92	4.52	94.40
	06/03/91		4.02	94.90
	08/30/91		4.70	94.22
	11/22/91		4.72	94.20
	03/13/92		3.47	95.45
	05/28/92		4.45	94.45
	08/19/92		4.84	94.08
	11/18/92		4.73	94.19
	02/10/93		4.83	94.09
	06/11/93		3.74	95.18
	08/03/93		4.23	94.69
	11/02/93		4.72	94.20
	12/16/93		3.00	95.92
	02/01/94		3.48	95.44
	05/04/94		3.26	95.66
	08/18/94		3.98	94.94
	11/09/94		3.10	95.82
	02/22/95		4.02	94.90
	05/02/95		2.86	96.06
	08/30/95		4.06	94.86
11/28/95	4.48	94.44		

Table 1. Ground Water Elevations - Shell Service Station WIC #504-5510-0303, 5755 Broadway, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation*	Depth to Water (ft)	Ground Water Elevation (ft)
S-3	01/25/91	101.67	3.84	97.83
	06/03/91		3.25	98.42
	08/03/91		4.73	96.94
	11/22/91		4.81	96.86
	03/13/92		2.29	99.38
	05/28/92		3.62	98.05
	08/19/92		4.66	97.01
	11/18/92		4.51	97.16
	02/10/93		4.36	97.31
	06/11/93		2.91	98.76
	08/03/93		3.70	97.97
	11/02/93 ^a		---	---
	12/16/93		2.12	99.55
	02/01/94		2.90	98.77
	05/04/94		2.54	99.13
	08/18/94		3.51	98.16
	11/09/94		2.44	99.23
	02/22/95		4.12	97.55
	05/02/95		2.83	98.84
	08/30/95		3.16	98.51
11/28/95	3.87	97.80		

Note:
 * = Top of casing elevations referenced to arbitrary elevation of 100 ft
 a = Well inaccessible
 NA = Not available

Table 2. Analytic Results for Ground Water, Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California

Sample ID	Date	Depth to Water (ft)	TPH-G	B	parts per billion (µg/L)		
					E	T	X
S-1	01/25/91	3.88	<30	<0.3	<0.3	<0.3	<0.3
	06/03/91	3.51	<30	<0.3	<0.3	<0.3	<0.3
	08/30/91	4.24	<30	<0.3	<0.3	<0.3	<0.3
	11/22/91	4.29	<30	2.3	0.3	<0.46	<0.65
	03/13/92	2.87	<30	<0.52	<0.3	<0.3	<0.3
	05/28/92	3.79	<50	<0.5	<0.5	<0.5	<0.5
	08/19/92	4.43	<50	<0.5	<0.5	<0.5	<0.5
	11/18/92	4.34	<50	<0.5	<0.5	<0.5	<0.5
	02/10/93	4.20	51	1.4	<0.5	<0.5	<0.5
	02/10/93 ^{dup}	4.20	<50	1.2	<0.5	<0.5	<0.5
	06/11/93	3.39	<50	<0.5	<0.5	<0.5	<0.5
	08/03/93	3.69	<50	<0.5	<0.5	<0.5	<0.5
	11/02/93	4.26	70 ^a	<0.5	<0.5	<0.5	<0.5
	02/01/94	3.38	60 ^a	<0.5	<0.5	<0.5	<0.5
	05/04/94	3.00	<50	1.1	<0.5	<0.5	<0.5
	08/18/94	3.70	<50	0.6	<0.5	<0.5	<0.5
	08/18/94 ^{dup}	3.70	60 ^b	0.5	<0.5	<0.5	<0.5
	11/09/94	2.52	<50	4.0	<0.5	<0.5	<0.5
	02/22/95	4.08	50	0.8	<0.5	0.7	1.3
	05/02/95	2.58	<50	<0.5	<0.5	<0.5	<0.5
08/30/95	3.48	<50	1.7	<0.5	<0.5	<0.5	
11/28/95	3.99	<50	<0.5	<0.5	<0.5	<0.5	
S-2	01/25/91	4.52	450	140	6.2	1.8	15
	06/03/91	4.02	490	150	8.2	2.7	7
	08/30/91	4.70	70	0.37	<0.3	<0.3	<0.3
	11/22/91	4.72	1,600	110	29	9.3	150
	03/13/92	3.47	1,300	210	34	5.7	79
	05/28/92	4.45	100	28	<0.5	<0.5	<0.5
	08/19/92	4.84	470	42	8.3	<0.5	4.0

Table 2. Analytic Results for Ground Water, Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California (continued)

Sample ID	Date	Depth to Water (ft)	TPH-G					T	X
			← parts per billion (µg/L) →						
	11/18/92	4.73	490	43	17	39	29		
	02/10/93	4.83	19,000	710	80	760	370		
	06/11/93	3.74	33,000	3,100	370	1,600	1,100		
	08/03/93	4.23	18,000	1,400	81	130	130		
	08/03/93 ^{dup}	4.23	19,000	1,400	86	140	150		
	11/02/93	4.72	12,000 ^a	470	31	47	92		
	11/02/93 ^{dup}	4.72	13,000 ^a	530	35	47	96		
	02/01/94	3.48	31,000 ^a	430	50	46	130		
	02/01/94 ^{dup}	3.48	31,000 ^a	300	30	33	100		
	05/04/94	3.26	3,900	1,200	53	31	71		
	05/04/94 ^{dup}	3.26	4,500	1,200	57	37	110		
	08/18/94	3.98	24,000	600	15	8.3	27		
	11/09/94	3.10	1,400 ^a	240	13	9.3	20		
	11/09/94 ^{dup}	3.10	1,800	260	13	8.5	21		
	02/22/95	4.02	29,000	550	12	18	63		
	02/22/95 ^{dup}	4.02	28,000	530	10	17	60		
	05/02/95	2.86	4,400	1,000	38	25	77		
	05/02/95 ^{dup}	2.86	4,400	1,000	41	26	83		
	08/30/95	4.06	800	350	6.7	20	16		
	08/30/95 ^{dup}	4.06	960	220	12	22	48		
	11/28/95	4.48	2,000	230	50	220	230		
	11/28/95 ^{dup}	4.48	2,100	240	51	230	230		
S-3	01/25/91	NA	<30	<0.3	<0.3	<0.3	<0.3		
	06/03/91	3.25	<30	<0.3	0.3	0.3	0.3		
	08/30/91	4.73	<30	<0.3	<0.3	<0.3	<0.3		
	11/22/91	4.81	<30	<0.3	<0.3	<0.3	<0.3		
	03/13/92	2.29	<30	<0.3	0.3	0.3	0.3		
	05/28/92	3.62	<50	<0.5	<0.5	<0.5	<0.5		
	08/19/92	4.66	<50	<0.5	<0.5	<0.5	0.5		

Table 2. Analytic Results for Ground Water, Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California (continued)

Sample ID	Date	Depth to Water (ft)	TPH-G	B	E			T	X
					parts per billion (µg/L)				
	11/18/92	4.51	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	02/10/93	4.36	30	1.9	2.4	3.2	5.6		
	06/11/93	2.91	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	06/11/93 ^{dup}	2.91	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/03/93	3.70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/02/93 ^c	---	---	---	---	---	---	---	
	02/01/94	2.90	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	05/04/94	2.54	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/18/94	3.51	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/09/94	2.44	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	02/22/95	4.12	80	<0.5	<0.5	0.5	0.5	0.5	
	05/02/95	2.83	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/30/95	3.16	<50	0.5	<0.5	<0.5	<0.5	<0.5	
	11/28/95	3.87	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
Bailer	08/19/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
Blank	11/22/91		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	02/22/95		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
Trip	03/13/92		<50	<0.3	<0.3	<0.3	<0.3	<0.3	
Blank	05/28/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/19/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/18/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	02/10/93		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/03/93		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/02/93		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	02/01/94		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	05/04/94		<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/09/94		<50	<0.5	<0.5	<0.5	<0.5	<0.5	

Table 2. Analytic Results for Ground Water, Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California (continued)

Sample ID	Date	Depth to Water (ft)	parts per billion (µg/L)				
			TPH-G	B	E	T	X
	02/22/95		<50	<0.5	1.0 ^e	<0.5	<0.5
	05/02/95		<50	<0.5	<0.5	<0.5	<0.5
	08/30/95	8	<50	<0.5	<0.5	<0.5	<0.5
	11/28/95		<50	<0.5	<0.5	<0.5	<0.5
DTSC MCLs			NE	1	680	100 ^d	1,750

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
 B = Benzene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 X = Xylenes by EPA Method 602 or 8020
 -- = Not analyzed
 DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
 NA = Not available
 NE = Not established
 <n = Not detected at detection limits of n ppb
 dup = Duplicate sample

Notes:

a = Concentrations reported as gasoline are primarily due to presence of a discrete peak not indicative of gasoline.
 b = This positive result has an atypical pattern for gasoline
 c = Well inaccessible.
 d = DTSC recommended action level for drinking water; MCL not established
 e = Positive result confirmed by secondary column or GC/MS analysis.



Table 3. Separate Phase Hydrocarbon Removal - Shell Service Station WIC #204-5510-0303, 5755 Broadway, Oakland, California

Well ID	Date	Separate Phase Hydrocarbon Thickness (ft)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)
T-1	02/10/93	<0.01	0.01	0.01
	06/11/93	<0.01	0.01	0.02
	08/03/93	0.01	0.01	0.03
	11/02/93	0.02	0.03	0.06
	02/01/94	0.00	0.01	0.07
	05/04/94	0.00	0.00	0.07
	08/18/94	0.00	0.00	0.07
	02/22/95	0.00	0.00	0.07
	05/02/95	0.00	0.00	0.07
	08/30/95	0.00	0.00	0.07
	11/28/95	0.00	0.00	0.07
	T-2	02/10/93	0.43	0.40
06/11/93		<0.01	0.01	0.41
08/03/93		0.01	0.01	0.41
11/02/93		0.02	0.02	0.43
02/01/94		0.00	0.01	0.44
05/04/94		0.00	0.00	0.44
08/18/94		0.00	0.00	0.44
02/22/95		0.00	0.00	0.44
05/02/95		0.00	0.00	0.44
08/30/95		0.00	0.00	0.44
11/28/95		0.00	0.00	0.44
T-3		08/03/93 ²	0.03	0.02
	11/02/93	0.02	0.01	0.03
	02/01/94	0.03	0.01	0.04
	05/04/94	0.00	0.00	0.04
	08/18/94	0.00	0.00	0.04
	02/22/95	0.00	0.00	0.04
	05/02/95	0.00	0.00	0.04
	08/30/95	0.00	0.00	0.04
	11/28/95	0.00	0.00	0.04
			Total Mass of Hydrocarbons Removed:	0.55



BLAINE TECH SERVICES INC.

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

December 14, 1995

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

Attn: R. Jeff Granberry

Shell WIC #204-5510-0303
5755 Broadway
Oakland, California

4th Quarter 1995

Quarterly Groundwater Monitoring Report 951128-K-3

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 94608-2411
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)
S-1	11/28/95	TOC	—	NONE	—	—	3.99	11.44
S-2 *	11/28/95	TOC	ODOR	NONE	—	—	4.48	9.41
S-3	11/28/95	TOC	—	NONE	—	—	3.87	9.49
T-1	11/28/95	INACCESSIBLE						
T-2	11/28/95	TOC	ODOR/SHEEN	—	—	—	2.71	12.97
T-3	11/28/95	TOC	—	NONE	—	—	3.70	8.63

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 951728-K3

Date: 11/28/95

Page 1 of 1

Site Address: 5755 Broadway, Oakland

WIC#: 204-5510-0303

Shell Engineer: R. Jeff Granberry
Phone No.: (510) 675-6168
Fax #: 675-6160

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

Consultant Contact: Fran Thie
Phone No.: (408) 995-5535 ext 201
Fax #: 293-8773

Comments:

Sampled by: KCB

Printed Name: Keith C Brown

Analysis Required

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	Asbestos	Container Size	Preparation Used	Composite Y/N

LAB: UJ

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	6441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6441	48 hours <input type="checkbox"/>
Soil Cleanup/Disposal <input type="checkbox"/>	6442	16 days <input checked="" type="checkbox"/> (Normal)
Water Cleanup/Disposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	6462	
Water Rem. or Sys. O & M <input type="checkbox"/>	6463	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hr. TAT.

Sample ID	Date	Sludge	Soil	Water	Air	No. of Conts.	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	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS Time	
S-1	✓ 11/28			✓		3						✓							1305
S-2	✓					1						✓							1320
S-3	✓					1						✓							1245
DUP	✓					1						✓							-
EB	✓					1						✓							-
TR	✓					2						✓							-

CHAIN OF CUSTODY SEALED
Date 11/29/95 Time 16:50 Initials PS
SEAL INTACT? Yes No Initials JA

Relinquished by (signature): <u>[Signature]</u>	Printed Name: <u>Keith Brown</u>	Date: <u>11-28-95</u> Time: <u>11:45</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>R. Smart</u>	Date: <u>11/29/95</u> Time: <u>16:50</u>
Relinquished by (signature): <u>[Signature]</u>	Printed Name: <u>R. Smart</u>	Date: <u>11/29/95</u> Time: <u>16:50</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>PAM GREENE</u>	Date: <u>11/30/95</u> Time: <u>08:00</u>
Relinquished by (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:

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

Minerals



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: 12/06/1995
NET Client Acct. No: 1821
NET Job No: 95.04586
Received: 11/30/1995

Client Reference Information

Shell 5755 Broadway, Oakland, CA/951128-K3

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. All positive results have been confirmed as required. 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". The signature is written over a horizontal line.

Ginger Brinlee
Project Coordinator

Enclosure (s)





Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04586

Date: 12/06/1995
ELAP Cert: 1386
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SAMPLE DESCRIPTION: S-1

Date Taken: 11/28/1995

Time Taken: 13:05

NET Sample No: 256516

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/02/1995	3386
Purgeable TPH	ND		50	ug/L	5030/M8015		12/02/1995	3386
Carbon Range: C6 to C12	--						12/02/1995	3386
METHOD 8020 (GC, Liquid)	--						12/02/1995	3386
Benzene	ND		0.5	ug/L	8020		12/02/1995	3386
Toluene	ND		0.5	ug/L	8020		12/02/1995	3386
Ethylbenzene	ND		0.5	ug/L	8020		12/02/1995	3386
Xylenes (Total)	ND		0.5	ug/L	8020		12/02/1995	3386
SURROGATE RESULTS	--						12/02/1995	3386
Bromofluorobenzene (SURR)	87			% Rec.	8020		12/02/1995	3386

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
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SAMPLE DESCRIPTION: S-2
Date Taken: 11/28/1995
Time Taken: 13:20
NET Sample No: 256517

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	10						12/04/1995	3389
Purgeable TPH	2,000		500	ug/L	5030/M8015		12/04/1995	3389
Carbon Range: C6 to C12	--						12/04/1995	3389
METHOD 8020 (GC, Liquid)	--						12/04/1995	3389
Benzene	230		5	ug/L	8020		12/04/1995	3389
Toluene	220		5	ug/L	8020		12/04/1995	3389
Ethylbenzene	50		5	ug/L	8020		12/04/1995	3389
Xylenes (Total)	230		5	ug/L	8020		12/04/1995	3389
SURROGATE RESULTS	--						12/04/1995	3389
Bromofluorobenzene (SURR)	88			% Rec.	8020		12/04/1995	3389

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SAMPLE DESCRIPTION: S-3

Date Taken: 11/28/1995

Time Taken: 12:45

NET Sample No: 256518

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/02/1995	3386
Purgeable TPH	ND		50	ug/L	5030/M8015		12/02/1995	3386
Carbon Range: C6 to C12	--						12/02/1995	3386
METHOD 8020 (GC, Liquid)								
Benzene	ND		0.5	ug/L	8020		12/02/1995	3386
Toluene	ND		0.5	ug/L	8020		12/02/1995	3386
Ethylbenzene	ND		0.5	ug/L	8020		12/02/1995	3386
Xylenes (Total)	ND		0.5	ug/L	8020		12/02/1995	3386
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	87			% Rec.	8020		12/02/1995	3386

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SAMPLE DESCRIPTION: DUP
Date Taken: 11/28/1995
Time Taken:
NET Sample No: 256519

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	10						12/04/1995	3389
Purgeable TPH	2,100		500	ug/L	5030/M8015		12/04/1995	3389
Carbon Range: C6 to C12	--						12/04/1995	3389
METHOD 8020 (GC, Liquid)	--						12/04/1995	3389
Benzene	240		5	ug/L	8020		12/04/1995	3389
Toluene	230		5	ug/L	8020		12/04/1995	3389
Ethylbenzene	51		5	ug/L	8020		12/04/1995	3389
Xylenes (Total)	230		5	ug/L	8020		12/04/1995	3389
SURROGATE RESULTS	--						12/04/1995	3389
Bromofluorobenzene (SURR)	88			µ Rec.	8020		12/04/1995	3389

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SAMPLE DESCRIPTION: EB

Date Taken: 11/28/1995

Time Taken:

NET Sample No: 256520

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/02/1995	3386
Purgeable TPH	ND		50	ug/L	5030/M8015		12/02/1995	3386
Carbon Range: C6 to C12	--						12/02/1995	3386
METHOD 8020 (GC, Liquid)							12/02/1995	3386
Benzene	ND		0.5	ug/L	8020		12/02/1995	3386
Toluene	ND		0.5	ug/L	8020		12/02/1995	3386
Ethylbenzene	ND		0.5	ug/L	8020		12/02/1995	3386
Xylenes (Total)	ND		0.5	ug/L	8020		12/02/1995	3386
SURROGATE RESULTS							12/02/1995	3386
Bromofluorobenzene (SURR)	101			% Rec.	8020		12/02/1995	3386

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SAMPLE DESCRIPTION: TB
Date Taken: 11/28/1995
Time Taken:
NET Sample No: 256521

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/02/1995	3386
Purgeable TPH	ND		50	ug/L	5030/M8015		12/02/1995	3386
Carbon Range: C6 to C12	--						12/02/1995	3386
METHOD 8020 (GC, Liquid)	--						12/02/1995	3386
Benzene	ND		0.5	ug/L	8020		12/02/1995	3386
Toluene	ND		0.5	ug/L	8020		12/02/1995	3386
Ethylbenzene	ND		0.5	ug/L	8020		12/02/1995	3386
Xylenes (Total)	ND		0.5	ug/L	8020		12/02/1995	3386
SURROGATE RESULTS	--						12/02/1995	3386
Bromofluorobenzene (SURR)	85			% Rec.	8020		12/02/1995	3386

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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	92.0	0.46	0.50	mg/L	12/01/1995	dat3	3386
Benzene	87.8	4.39	5.00	ug/L	12/01/1995	dat3	3386
Toluene	85.2	4.26	5.00	ug/L	12/01/1995	dat3	3386
Ethylbenzene	88.8	4.44	5.00	ug/L	12/01/1995	dat3	3386
Xylenes (Total)	59.1	8.86	15.0	ug/L	12/01/1995	dat3	3386
Bromofluorobenzene (SURR)	89.0	89	100	% Rec.	12/01/1995	dat3	3386
METHOD 5030/8015-M (Shell)							
Purgeable TPH	90.0	0.45	0.50	mg/L	12/04/1995	dat3	3389
Benzene	95.0	4.75	5.00	ug/L	12/04/1995	dat3	3389
Toluene	86.2	4.31	5.00	ug/L	12/04/1995	dat3	3389
Ethylbenzene	87.0	4.35	5.00	ug/L	12/04/1995	dat3	3389
Xylenes (Total)	90.7	13.61	15.0	ug/L	12/04/1995	dat3	3389
Bromofluorobenzene (SURR)	90.0	90	100	% Rec.	12/04/1995	dat3	3389

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METHOD BLANK REPORT

Parameter	Method	Reporting		Units	Date Analyzed	Analyst Initials	Run Batch Number
	Blank	Amount Found	Limit				
METHOD 5030/8015-M (Shell)							
Purgeable TPH	ND		0.05	mg/L	12/01/1995	dat3	3386
Benzene	ND		0.5	ug/L	12/01/1995	dat3	3386
Toluene	ND		0.5	ug/L	12/01/1995	dat3	3386
Ethylbenzene	ND		0.5	ug/L	12/01/1995	dat3	3386
Xylenes (Total)	ND		0.5	ug/L	12/01/1995	dat3	3386
Bromofluorobenzene (SURR)		89		% Rec.	12/01/1995	dat3	3386
METHOD 5030/8015-M (Shell)							
Purgeable TPH	ND		0.05	mg/L	12/04/1995	dat3	3389
Benzene	ND		0.5	ug/L	12/04/1995	dat3	3389
Toluene	ND		0.5	ug/L	12/04/1995	dat3	3389
Ethylbenzene	ND		0.5	ug/L	12/04/1995	dat3	3389
Xylenes (Total)	ND		0.5	ug/L	12/04/1995	dat3	3389
Bromofluorobenzene (SURR)		88		% Rec.	12/04/1995	dat3	3389

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Sample Conc.	Matrix Spike			Units	Date Analyzed	Run Batch	Sample Spiked
	Spike % Rec.	Dup % Rec.	RPD		Spike Amount	Spike Conc.	Dup. Conc.				
METHOD 5030/8015-M (Shell)											256485
Purgeable TPH	100.0	100.0	0.0	0.50	1.6	2.1	2.1	mg/L	12/01/1995	3386	256485
Toluene	114.3	114.3	0.0	23.8	4.4	31.6	31.6	ug/L	12/01/1995	3386	256485
METHOD 5030/8015-M (Shell)											256488
Purgeable TPH	84.0	84.0	0.0	0.50	ND	0.42	0.42	mg/L	12/04/1995	3389	256488
Benzene	88.4	91.3	3.2	6.9	ND	6.1	6.3	ug/L	12/04/1995	3389	256488
Toluene	89.1	97.4	8.9	23.0	ND	20.5	22.4	ug/L	12/04/1995	3389	256488

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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.

COOLER RECEIPT FORM

Project: 951128-K3 Log No: 9422
Cooler received on: 11/30/95 and checked on 11/30/95 by Pam Greene
(signature) [Signature]

- are custody papers present?..... YES NO
- are custody papers properly filled out?..... YES NO
- are the custody papers signed?..... YES NO
- was sufficient ice used?..... YES NO
- did all bottles arrive in good condition (unbroken)?..... YES NO
- did bottle labels match COC?..... YES NO
- are proper bottles used for analysis indicated?..... YES NO
- correct preservatives used?..... YES NO
- VOA vials checked for headspace bubbles?..... YES NO

Temp 0°

Note which voas (if any) had bubbles:*

Sample descriptor:
51
52
53

Number of vials:
1
2

All 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:

Client Job #	NET log #
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

(coolerrec)