enviros®

95 NOV 14 PM 2:29

November 13, 1995

#229

Mr. Lynn Walker
Shell Oil Products Company
P.O. Box 4023
Concord, California 94524

RE: **Quarterly Monitoring Report - Third Quarter 1995**
Former Shell Service Station
2101 Park Boulevard
Oakland, California
WIC #204-5508-1206

Dear Mr. Walker:

This Quarterly Monitoring Report describes the recently completed activities associated with groundwater monitoring and sampling at the referenced site (Plate 1). This report was prepared to meet quarterly reporting guidelines issued by the Regional Water Quality Control Board, San Francisco Bay Region.

Quarterly Monitoring & Sampling Summary

Groundwater monitoring and sampling for the third quarter of 1995 are summarized below:

- Blaine Tech Services Inc. (Blaine Tech) of San Jose, measured groundwater levels and collected groundwater samples from Wells S-1, S-2, and S-3 on September 12, 1995. The samples were transported to National Environmental Testing, Inc. (NET) of Santa Rosa, California for chemical analysis.

- Groundwater level measurement data were evaluated and used to prepare a groundwater contour map (Plate 3). Groundwater flow direction appears to be south at a calculated hydraulic gradient of 0.03.

- The groundwater from Well S-3 contained 5,200 ppb TPH-G and 690 ppb benzene. Wells S-1 and S-2 contained TPH-G concentrations ranging from ND to 190 ppb and benzene concentrations ranging from 3.0 to 18 ppb. Well S-1 also contained 250 ppb TPH-D.

- Groundwater samples from Well S-1 were reported as ND for Oil and Grease and VOCs. ICAP 5 metal concentrations were reported below MCL levels.

Enviros, Inc. 270 Perkins Street P O Box 259 Sonoma California 95476 0259 Tel 707 935-4850 Fax 707, 935-6649

Quarterly Sampling

Monitoring Wells S-1, S-2, and S-3 were sampled and analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-G) according to EPA Method 8015 (Modified) and benzene, toluene, ethylbenzene and xylenes (BTEX) according to EPA Method 8020. Monitoring Well S-1 was also analyzed for Total Petroleum Hydrocarbons calculated as Diesel (TPH-D) according to EPA Method 8015 (Modified), Oil and Grease (O&G) according to ASTM Method 5520 B and B/F, Volatile Organic Compounds (VOCs) according to EPA Method 8010, and ICAP 5 metals. Additionally, a trip blank, a duplicate sample, and a rinsate blank were prepared and analyzed for quality control purposes.

Field monitoring data and chemical analytical data for TPH-G, TPH-D, O&G, and BTEX have been included in the Historical Groundwater Monitoring Database (Table 1). A benzene concentration map is presented as Plate 4. The Blaine Tech groundwater monitoring report is presented in Appendix A.

Quarterly monitoring, sampling, and reporting will continue on the established schedule for the next quarter. Sampling of Well S-1 for Oil and Grease, VOCs, and ICAP 5 Metals will be discontinued since these compounds were not detected in this well.

If you have any questions regarding the contents of this document, please call.

Sincerely,

Enviros, Inc.

Clyde J. Galantine
Project Geologist

Diane M. Lundquist, P.E.
Senior Engineer
C46725

REGISTERED PROFESSIONAL ENGINEER
DIANE M. LUNDQUIST
NO. C46725
CIVIL
STATE OF CALIFORNIA

Attachments

Table 1. Historical Groundwater Monitoring Database

Plate 1. Vicinity Map
Plate 2. Site Plan
Plate 3. Groundwater Contour Map
Plate 4. Benzene Concentration Map

Appendix A

Blaine Tech Services Inc. - Quarterly Groundwater Sampling Report
Chain-of-Custody Document
NET Chemical Analytical Report

cc: Mr. Barney Chan, Alameda County Health Care Services Agency
Mr. Frank J. Schlessinger, Schlessinger & Associates
Mr. Steve Makara, Goodyear Tire & Rubber Company

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATABASE

FORMER SHELL SERVICE STATION
2101 PARK BOULEVARD
OAKLAND, CALIFORNIA
WIC# 204-5508-1206

WELL NUMBER	DATE	TOP OF CASING ELEV. (ft)	DEPTH TO WATER (ft)	GROUND WATER ELEV. (ft)	TPH-G (PPB)	TPH-D (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYL BENZENE (PPB)	XYLENES (PPB)	O&G by 5520 B (PPB)	O&G by 5520 B/F (PPB)
S-1	20-Jun-95	11.93	4.67	7.26	160	-	<0.5	<0.5	<0.5	<0.5	-	-
	12-Sep-95		4.19	7.74	<50	250	3.0	<0.5	<0.5	<0.5	<5000	<5000
S-2	20-Jun-95	12.06	5.80	6.26	180	-	1.1	<0.5	<0.5	0.6	-	-
	12-Sep-95		5.78	6.28	190	-	18	<0.5	1.2	0.6	-	-
S-3	20-Jun-95	13.54	4.90	8.64	5500	-	240	34	120	840	-	-
	12-Sep-95		5.37	8.17	5200	-	690	14	290	280	-	-
S-3 Dup	20-Jun-95		-	-	6300	-	270	37	120	1100	-	-
	12-Sep-95		-	-	4700	-	620	13	260	240	-	-

Abbreviations

ft = Measurements in feet
TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline.
TPH-D = Total Petroleum Hydrocarbons calculated as Diesel
O&G = Oil and Grease
PPB = Parts Per Billion
<x = Not Detected at detection limit of x

Note: All wells surveyed to Mean Sea Level

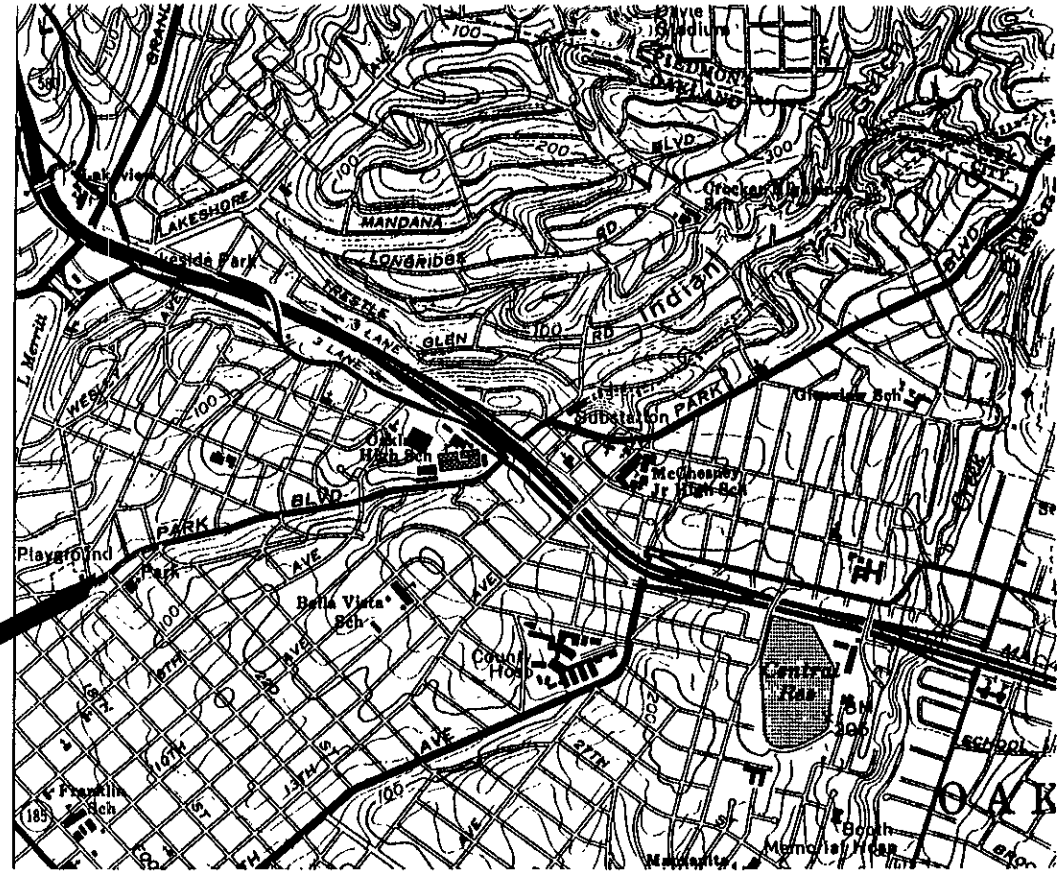


PLATE	VICINITY MAP	enviros®
1	Former Shell Service Station 2101 Park Boulevard Oakland, California	E4/95267.01
Drawn By: GLV	Date: 2-24-95	Approved By: JM Date: 13-Nov-95

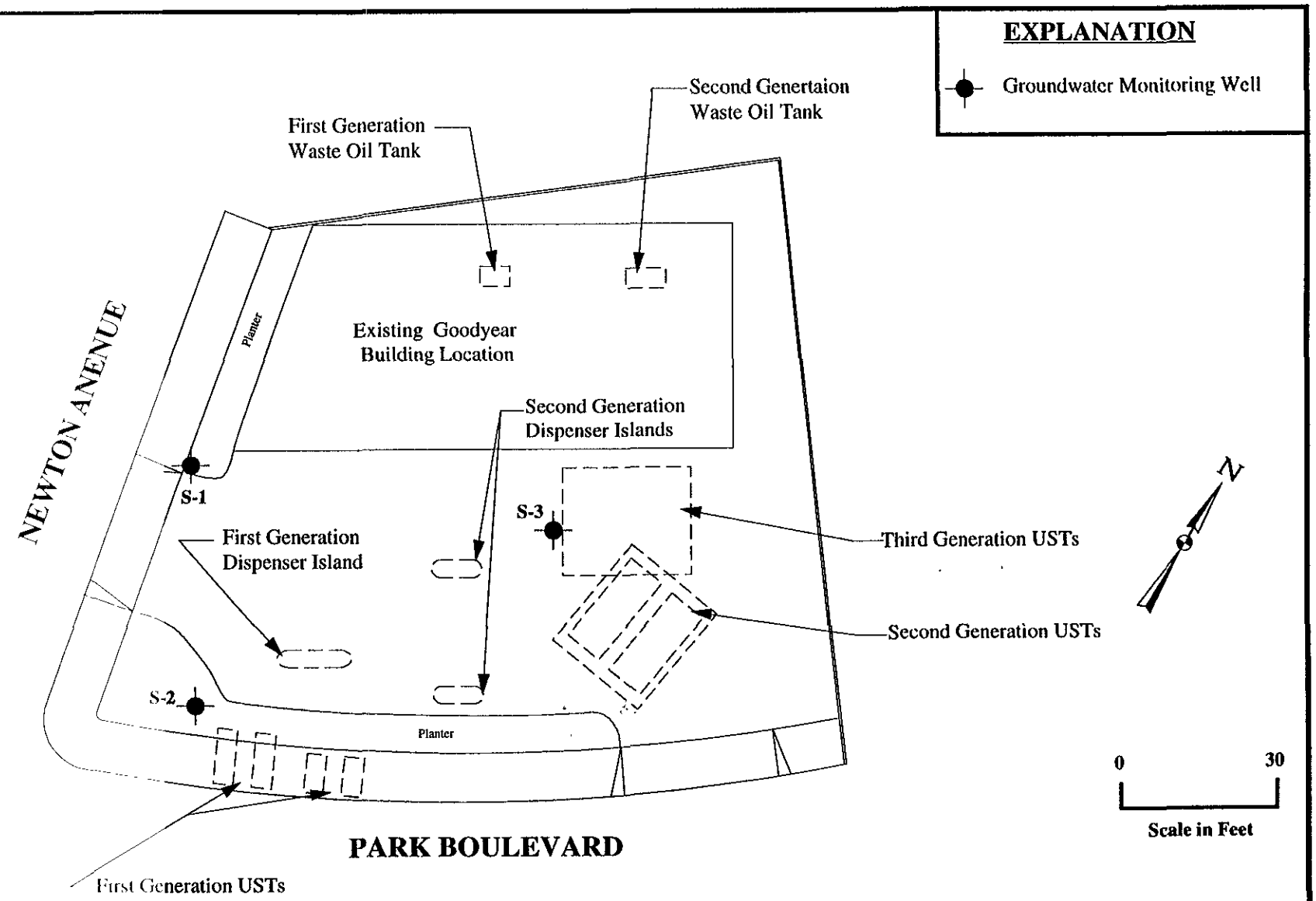


PLATE
2

SITE PLAN
Former Shell Service Station
2101 Park Boulevard
Oakland, California

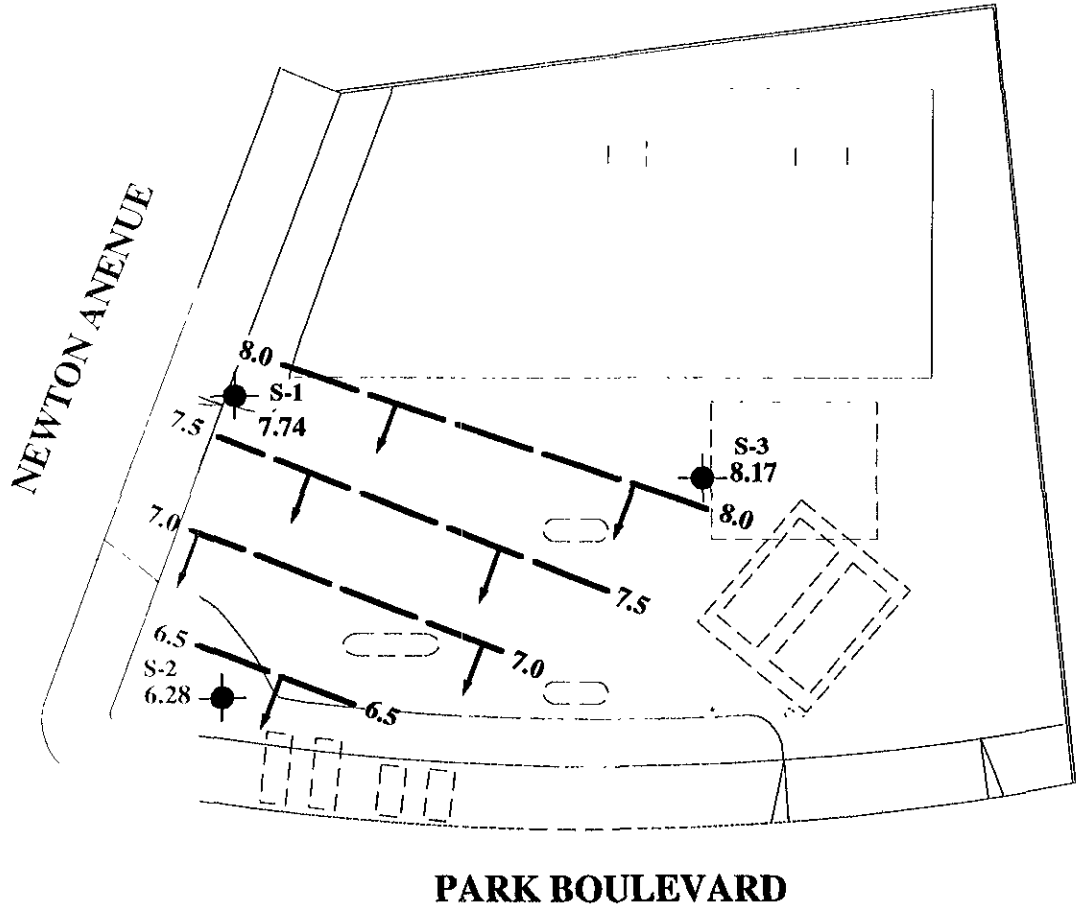
enviros®
95267

Drawn By: JWN

Date: 7-7-95

Approved By: JM

Date: 13-Nov-95



EXPLANATION

Groundwater Monitoring Well

Groundwater eleveation contour (referenced to Mean Sea Level). Arrows indicate approximate groundwater flow direction.

Approximate hydraulic gradient = 0.03

Note: Water level data collected 12-Sep-95

N

0 30

Scale in Feet

PLATE **3**

GROUNDWATER CONTOUR MAP
Former Shell Service Station
2101 Park Boulevard
Oakland, California

enviros®
95267

Drawn By: JWN

Date: 24-Jul-95

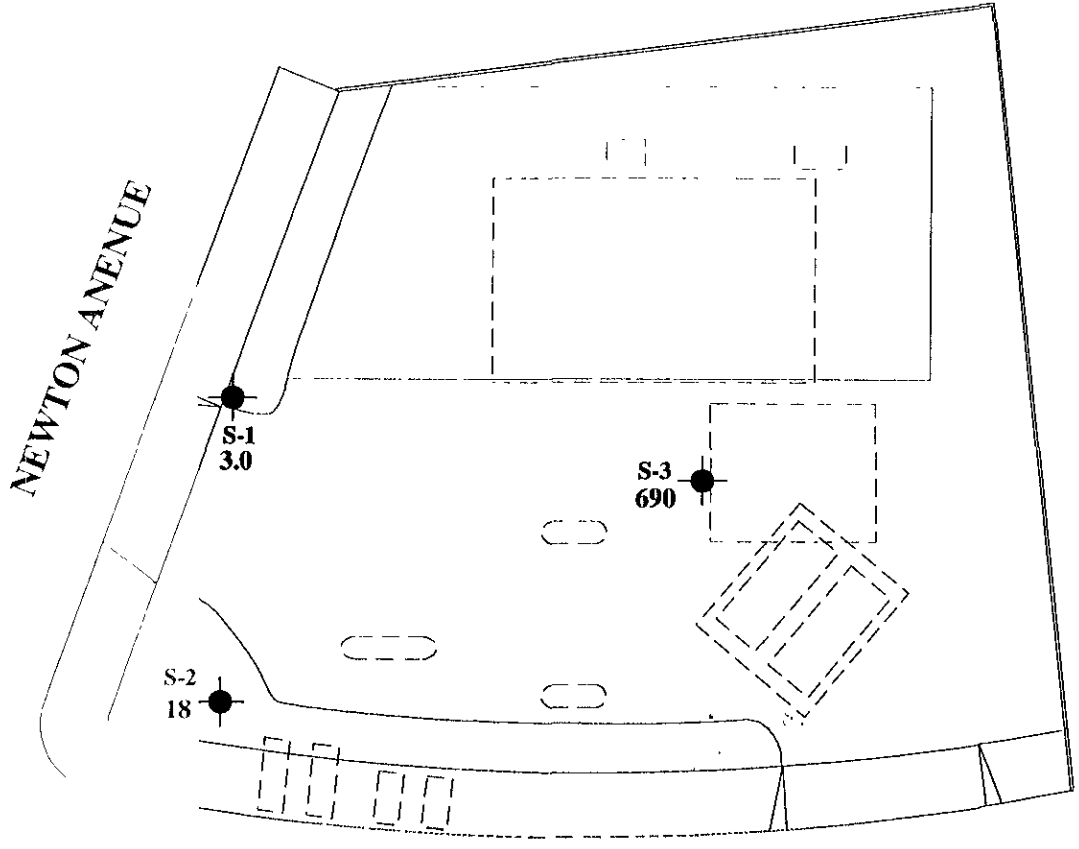
Approved By: JM

Date: 13-Nov-95

EXPLANATION

- Groundwater Monitoring Well
- **240** Benzene concentration in groundwater in parts per billion.
- **ND** None detected

Note: Water samples collected on 12-Sep-95.



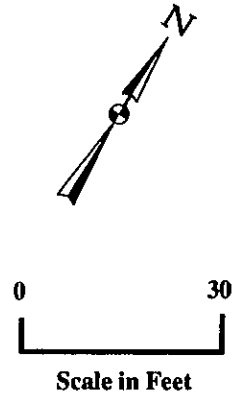


PLATE **4**

BENZENE CONCENTRATION MAP
Former Shell Service Station
2101 Park Boulevard
Oakland, California

enviros®
95267

Drawn By: JWN | Date: 6-21-95 | Approved By: Jm | Date: 13-Nov-95

Appendix A

BLAINE TECH SERVICES INC.
Quarterly Groundwater Sampling Report

Chain-of-Custody Record

National Environmental Testing, Inc.
Certified Chemical Analytical Report

BLAINE
TECH SERVICES INC.

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

October 19, 1995

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

Attn: Lynn Walker

Shell WIC #204-5508-1206
2101 Park Blvd.
Oakland, California

3rd Quarter 1995

Quarterly Groundwater Monitoring Report 950912-A-4

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: Enviros, Inc.
19411 Riverside Dr
P.O. Box 259
Sonoma, CA 95476-0259
Attn: Joe Neely

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	9/12/95	TOC	--	NONE	--	--	4.19	17.31
S-2	9/12/95	TOC	ODOR	NONE	--	--	5.78	17.40
S-3 *	9/12/95	TOC	ODOR	NONE	--	--	5.37	17.34

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

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: 10/16/1995
NET Client Acct. No: 1821
NET Job No: 95.03645
Received: 09/14/1995

Client Reference Information

Shell 2101 Park Blvd., Oakland, CA/950912-A4

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 Brinlee
Project Coordinator

Enclosure(s)

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

SAMPLE DESCRIPTION: S-1
Date Taken: 09/12/1995
Time Taken: 15:50
NET Sample No: 250983

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
Oil & Grease (Total)	ND		5,000	ug/L	5520B		09/16/1995	356
Oil & Grease (Non-Polar)	ND		5,000	ug/L	5520B/F		09/16/1995	338
METHOD 6010 (LIQUID)	--						10/03/1995	943
Cadmium (ICP)	ND		20	ug/L	EPA 6010	09/28/1995	10/03/1995	782
Chromium (ICP)	ND		20	ug/L	EPA 6010	09/28/1995	10/03/1995	738
Copper (ICP)	ND		20	ug/L	EPA 6010	09/28/1995	10/03/1995	800
Lead (GFAA)	7		2	ug/L	EPA 7421	09/28/1995	10/04/1995	687
Zinc (ICP)	50		50	ug/L	EPA 6010	09/28/1995	10/03/1995	908
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						09/24/1995	3193
Purgeable TPH	ND		50	ug/L	5030/M8015		09/24/1995	3193
Carbon Range: C6 to C12	--						09/24/1995	3193
METHOD 8020 (GC, Liquid)	--						09/24/1995	3193
Benzene	3.0	C	0.5	ug/L	8020		09/24/1995	3193
Toluene	ND		0.5	ug/L	8020		09/24/1995	3193
Ethylbenzene	ND		0.5	ug/L	8020		09/24/1995	3193
Xylenes (Total)	ND		0.5	ug/L	8020		09/24/1995	3193
SURROGATE RESULTS	--						09/24/1995	3193
Bromofluorobenzene (SURR)	100			% Rec.	8020		09/24/1995	3193
METHOD 3510/8015-M (Shell)						09/19/1995		
DILUTION FACTOR*	1						09/19/1995	1075
Extractable TPH	250		50	ug/L	3510/M8015		09/19/1995	1075
Carbon range: C9 to C24	--						09/19/1995	1075

C Positive result confirmed by secondary column or GC/MS analysis

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

SAMPLE DESCRIPTION: S-1
Date Taken: 09/12/1995
Time Taken: 15:50
NET Sample No: 250983

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						09/16/1995	880
Bromodichloromethane	ND		0.4	ug/L	8010		09/16/1995	880
Bromoform	ND		0.4	ug/L	8010		09/16/1995	880
Bromomethane	ND		0.4	ug/L	8010		09/16/1995	880
Carbon tetrachloride	ND		0.4	ug/L	8010		09/16/1995	880
Chlorobenzene	ND		0.4	ug/L	8010		09/16/1995	880
Chloroethane	ND		0.4	ug/L	8010		09/16/1995	880
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		09/16/1995	880
Chloroform	ND		0.4	ug/L	8010		09/16/1995	880
Chloromethane	ND		0.4	ug/L	8010		09/16/1995	880
Dibromochloromethane	ND		0.4	ug/L	8010		09/16/1995	880
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		09/16/1995	880
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		09/16/1995	880
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		09/16/1995	880
Dichlorodifluoromethane	ND		0.4	ug/L	8010		09/16/1995	880
1,1-Dichloroethane	ND		0.4	ug/L	8010		09/16/1995	880
1,2-Dichloroethane	ND		0.4	ug/L	8010		09/16/1995	880
1,1-Dichloroethene	ND		0.4	ug/L	8010		09/16/1995	880
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		09/16/1995	880
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		09/16/1995	880
1,2-Dichloropropane	ND		0.4	ug/L	8010		09/16/1995	880
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/16/1995	880
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		09/16/1995	880
Methylene chloride	ND		10	ug/L	8010		09/16/1995	880
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		09/16/1995	880
Tetrachloroethene	ND		0.4	ug/L	8010		09/16/1995	880
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		09/16/1995	880
1,1,2-Trichloroethane	ND		1	ug/L	8010		09/16/1995	880
Trichloroethene	ND		0.4	ug/L	8010		09/16/1995	880
Trichlorofluoromethane	ND		0.4	ug/L	8010		09/16/1995	880
Vinyl chloride	ND		0.4	ug/L	8010		09/16/1995	880
SURROGATE RESULTS	--						09/16/1995	880
1,4-Difluorobenzene (SURR)	101			% Rec.			09/16/1995	880
1,4-Dichlorobutane (SURR)	NA			% Rec.			09/16/1995	880
Bromochloromethane (SURR)	93			% Rec.			09/16/1995	880

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

SAMPLE DESCRIPTION: S-2
Date Taken: 09/12/1995
Time Taken: 16:14
NET Sample No: 250984

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						10/02/1995	3225
Purgeable TPH	190		50	ug/L	5030/M8015		10/02/1995	3225
Carbon Range: C6 to C12	--						10/02/1995	3225
METHOD 8020 (GC, Liquid)	--						10/02/1995	3225
Benzene	18		0.5	ug/L	8020		10/02/1995	3225
Toluene	ND		0.5	ug/L	8020		10/02/1995	3225
Ethylbenzene	1.2		0.5	ug/L	8020		10/02/1995	3225
Xylenes (Total)	0.6		0.5	ug/L	8020		10/02/1995	3225
SURROGATE RESULTS	--						10/02/1995	3225
Bromofluorobenzene (SURR)	94			% Rec.	8020		10/02/1995	3225

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

SAMPLE DESCRIPTION: S-3
Date Taken: 09/12/1995
Time Taken: 16:40
NET Sample No: 250985

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	20						09/30/1995	3219
Purgeable TPH	5,200		1,000	ug/L	5030/M8015		09/30/1995	3219
Carbon Range: C6 to C12	--						09/30/1995	3219
METHOD 8020 (GC, Liquid)	--						09/30/1995	3219
Benzene	690		10	ug/L	8020		09/30/1995	3219
Toluene	14		10	ug/L	8020		09/30/1995	3219
Ethylbenzene	290		10	ug/L	8020		09/30/1995	3219
Xylenes (Total)	280		10	ug/L	8020		09/30/1995	3219
SURROGATE RESULTS	--						09/30/1995	3219
Bromofluorobenzene (SURR)	96			% Rec.	8020		09/30/1995	3219

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

SAMPLE DESCRIPTION: EB
Date Taken: 09/12/1995
Time Taken: 16:18
NET Sample No: 250986

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						09/28/1995	3211
Purgeable TPH	ND		50	ug/L	5030/M8015		09/28/1995	3211
Carbon Range: C6 to C12	--						09/28/1995	3211
METHOD 8020 (GC, Liquid)	--						09/28/1995	3211
Benzene	ND		0.5	ug/L	8020		09/28/1995	3211
Toluene	ND		0.5	ug/L	8020		09/28/1995	3211
Ethylbenzene	ND		0.5	ug/L	8020		09/28/1995	3211
Xylenes (Total)	ND		0.5	ug/L	8020		09/28/1995	3211
SURROGATE RESULTS	--						09/28/1995	3211
Bromofluorobenzene (SURR)	90			% Rec.	8020		09/28/1995	3211

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

SAMPLE DESCRIPTION: DUP
Date Taken: 09/12/1995
Time Taken:
NET Sample No: 250987

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	20						09/30/1995	3219
Purgeable TPH	4,700		1,000	ug/L	5030/M8015		09/30/1995	3219
Carbon Range: C6 to C12	--						09/30/1995	3219
METHOD 8020 (GC, Liquid)	--						09/30/1995	3219
Benzene	620		10	ug/L	8020		09/30/1995	3219
Toluene	13		10	ug/L	8020		09/30/1995	3219
Ethylbenzene	260		10	ug/L	8020		09/30/1995	3219
Xylenes (Total)	240		10	ug/L	8020		09/30/1995	3219
SURROGATE RESULTS	--						09/30/1995	3219
Bromofluorobenzene (SURR)	98			% Rec.	8020		09/30/1995	3219

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

SAMPLE DESCRIPTION: TB
Date Taken: 09/12/1995
Time Taken:
NET Sample No: 250988

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						09/28/1995	3211
Purgeable TPH	ND		50	ug/L	5030/M8015		09/28/1995	3211
Carbon Range: C6 to C12	--						09/28/1995	3211
METHOD 8020 (GC, Liquid)	--						09/28/1995	3211
Benzene	ND		0.5	ug/L	8020		09/28/1995	3211
Toluene	ND		0.5	ug/L	8020		09/28/1995	3211
Ethylbenzene	ND		0.5	ug/L	8020		09/28/1995	3211
Xylenes (Total)	ND		0.5	ug/L	8020		09/28/1995	3211
SURROGATE RESULTS	--						09/28/1995	3211
Bromofluorobenzene (SURR)	96			% Rec.	8020		09/28/1995	3211

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 6010 (LIQUID)					10/11/1995	jeo	943
Cadmium (ICP)	99.9	0.9988	1.00	mg/L	10/03/1995	jeo	782
Chromium (ICP)	105.6	1.056	1.00	mg/L	10/03/1995	jeo	738
Copper (ICP)	97.6	0.9758	1.00	mg/L	10/03/1995	jeo	800
Lead (GFAA)	103.7	0.02593	0.0250	mg/L	10/04/1995	ket	687
Zinc (ICP)	101.0	1.010	1.00	mg/L	10/03/1995	jeo	908
METHOD 5030/8015-M (Shell)							
Purgeable TPH	96.0	0.48	0.50	mg/L	09/24/1995		3193
Benzene	89.4	4.47	5.00	ug/L	09/24/1995		3193
Toluene	92.0	4.60	5.00	ug/L	09/24/1995		3193
Ethylbenzene	94.6	4.73	5.00	ug/L	09/24/1995		3193
Xylenes (Total)	96.7	14.5	15.0	ug/L	09/24/1995		3193
Bromofluorobenzene (SURR)	94.0	94	100	% Rec.	09/24/1995		3193
METHOD 5030/8015-M (Shell)							
Purgeable TPH	100.0	0.50	0.50	mg/L	09/28/1995	dld	3211
Benzene	102.6	5.13	5.00	ug/L	09/28/1995	dld	3211
Toluene	102.6	5.13	5.00	ug/L	09/28/1995	dld	3211
Ethylbenzene	107.2	5.36	5.00	ug/L	09/28/1995	dld	3211
Xylenes (Total)	107.3	16.1	15.0	ug/L	09/28/1995	dld	3211
Bromofluorobenzene (SURR)	105.0	105	100	% Rec.	09/28/1995	dld	3211
METHOD 5030/8015-M (Shell)							
Purgeable TPH	98.0	0.49	0.50	mg/L	09/30/1995	dld	3219
Benzene	90.2	4.51	5.00	ug/L	09/30/1995	dld	3219
Toluene	91.6	4.58	5.00	ug/L	09/30/1995	dld	3219
Ethylbenzene	95.6	4.78	5.00	ug/L	09/30/1995	dld	3219
Xylenes (Total)	96.7	14.5	15.0	ug/L	09/30/1995	dld	3219
Bromofluorobenzene (SURR)	103.0	103	100	% Rec.	09/30/1995	dld	3219
METHOD 5030/8015-M (Shell)							
Purgeable TPH	98.0	0.49	0.50	mg/L	10/02/1995	dld	3225
Benzene	100.0	5.00	5.00	ug/L	10/02/1995	dld	3225
Toluene	97.6	4.88	5.00	ug/L	10/02/1995	dld	3225
Ethylbenzene	96.8	4.84	5.00	ug/L	10/02/1995	dld	3225
Xylenes (Total)	93.3	14.0	15.0	ug/L	10/02/1995	dld	3225
Bromofluorobenzene (SURR)	84.0	84	100	% Rec.	10/02/1995	dld	3225
METHOD 3510/8015-M (Shell)							
Extractable TPH	103.0	1030	1000	mg/L	09/19/1995	tts	1075

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)							
Bromodichloromethane	105.0	21.0	20.0	ug/L	09/15/1995	ltg	880
Bromoform	102.0	20.4	20.0	ug/L	09/15/1995	ltg	880
Bromomethane	106.0	21.2	20.0	ug/L	09/15/1995	ltg	880
Carbon tetrachloride	96.0	19.2	20.0	ug/L	09/15/1995	ltg	880
Chlorobenzene	91.0	18.2	20.0	ug/L	09/15/1995	ltg	880
Chloroethane	73.0	14.6	20.0	ug/L	09/15/1995	ltg	880
2-Chloroethylvinyl ether	62.0	12.4	20.0	ug/L	09/15/1995	ltg	880
Chloroform	92.5	18.5	20.0	ug/L	09/15/1995	ltg	880
Chloromethane	71.0	14.2	20.0	ug/L	09/15/1995	ltg	880
Dibromochloromethane	95.0	19.0	20.0	ug/L	09/15/1995	ltg	880
1,2-Dichlorobenzene	101.0	20.2	20.0	ug/L	09/15/1995	ltg	880
1,3-Dichlorobenzene	107.5	21.5	20.0	ug/L	09/15/1995	ltg	880
1,4-Dichlorobenzene	99.0	19.8	20.0	ug/L	09/15/1995	ltg	880
Dichlorodifluoromethane	80.5	16.1	20.0	ug/L	09/15/1995	ltg	880
1,1-Dichloroethane	93.5	18.7	20.0	ug/L	09/15/1995	ltg	880
1,2-Dichloroethane	98.0	19.6	20.0	ug/L	09/15/1995	ltg	880
1,1-Dichloroethene	90.5	18.1	20.0	ug/L	09/15/1995	ltg	880
cis-1,2-Dichloroethene	95.0	19.0	20.0	ug/L	09/15/1995	ltg	880
trans-1,2-Dichloroethene	102.0	20.4	20.0	ug/L	09/15/1995	ltg	880
1,2-Dichloropropane	96.0	19.2	20.0	ug/L	09/15/1995	ltg	880
cis-1,3-Dichloropropene	93.0	18.6	20.0	ug/L	09/15/1995	ltg	880
trans-1,3-Dichloropropene	94.5	18.9	20.0	ug/L	09/15/1995	ltg	880
Methylene chloride	85.5	17.1	20.0	ug/L	09/15/1995	ltg	880
1,1,2,2-Tetrachloroethane	93.0	18.6	20.0	ug/L	09/15/1995	ltg	880
Tetrachloroethene	90.0	18.0	20.0	ug/L	09/15/1995	ltg	880
1,1,1-Trichloroethane	91.5	18.3	20.0	ug/L	09/15/1995	ltg	880
1,1,2-Trichloroethane	89.5	17.9	20.0	ug/L	09/15/1995	ltg	880
Trichloroethene	94.0	18.8	20.0	ug/L	09/15/1995	ltg	880
Trichlorofluoromethane	87.5	17.5	20.0	ug/L	09/15/1995	ltg	880
Vinyl chloride	92.5	18.5	20.0	ug/L	09/15/1995	ltg	880
1,4-Difluorobenzene (SURR)	102.0	102	100	% Rec.	09/15/1995	ltg	880
1,4-Dichlorobutane (SURR)		NA	100	% Rec.	09/15/1995	ltg	880
Bromochloromethane (SURR)	103.0	103	100	% Rec.	09/15/1995	ltg	880

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)							
Bromodichloromethane	107.5	21.5	20.0	ug/L	09/16/1995	ltg	880
Bromoform	110.0	22.0	20.0	ug/L	09/16/1995	ltg	880
Bromomethane	76.0	15.2	20.0	ug/L	09/16/1995	ltg	880
Carbon tetrachloride	100.0	20.0	20.0	ug/L	09/16/1995	ltg	880
Chlorobenzene	96.5	19.3	20.0	ug/L	09/16/1995	ltg	880
Chloroethane	90.0	18.0	20.0	ug/L	09/16/1995	ltg	880
2-Chloroethylvinyl ether	125.0	25.0	20.0	ug/L	09/16/1995	ltg	880
Chloroform	91.0	18.2	20.0	ug/L	09/16/1995	ltg	880
Chloromethane	63.5	12.7	20.0	ug/L	09/16/1995	ltg	880
Dibromochloromethane	103.0	20.6	20.0	ug/L	09/16/1995	ltg	880
1,2-Dichlorobenzene	102.0	20.4	20.0	ug/L	09/16/1995	ltg	880
1,3-Dichlorobenzene	107.0	21.4	20.0	ug/L	09/16/1995	ltg	880
1,4-Dichlorobenzene	99.0	19.8	20.0	ug/L	09/16/1995	ltg	880
Dichlorodifluoromethane	86.5	17.3	20.0	ug/L	09/16/1995	ltg	880
1,1-Dichloroethane	92.5	18.5	20.0	ug/L	09/16/1995	ltg	880
1,2-Dichloroethane	96.0	19.2	20.0	ug/L	09/16/1995	ltg	880
1,1-Dichloroethene	94.5	18.9	20.0	ug/L	09/16/1995	ltg	880
cis-1,2-Dichloroethene	94.5	18.9	20.0	ug/L	09/16/1995	ltg	880
trans-1,2-Dichloroethene	92.0	18.4	20.0	ug/L	09/16/1995	ltg	880
1,2-Dichloropropane	98.0	19.6	20.0	ug/L	09/16/1995	ltg	880
cis-1,3-Dichloropropene	98.5	19.7	20.0	ug/L	09/16/1995	ltg	880
trans-1,3-Dichloropropene	101.0	20.2	20.0	ug/L	09/16/1995	ltg	880
Methylene chloride	85.0	17.0	20.0	ug/L	09/16/1995	ltg	880
1,1,2,2-Tetrachloroethane	99.0	19.8	20.0	ug/L	09/16/1995	ltg	880
Tetrachloroethene	105.0	21.0	20.0	ug/L	09/16/1995	ltg	880
1,1,1-Trichloroethane	91.5	18.3	20.0	ug/L	09/16/1995	ltg	880
1,1,2-Trichloroethane	97.0	19.4	20.0	ug/L	09/16/1995	ltg	880
Trichloroethene	97.5	19.5	20.0	ug/L	09/16/1995	ltg	880
Trichlorofluoromethane	94.0	18.8	20.0	ug/L	09/16/1995	ltg	880
Vinyl chloride	91.0	18.2	20.0	ug/L	09/16/1995	ltg	880
1,4-Difluorobenzene (SURR)	100.0	100	100	% Rec.	09/16/1995	ltg	880
1,4-Dichlorobutane (SURR)		NA	100	% Rec.	09/16/1995	ltg	880
Bromochloromethane (SURR)	102.0	102	100	% Rec.	09/16/1995	ltg	880

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
Oil & Grease (Total)	ND	5	mg/L	09/16/1995	shr	356
Oil & Grease (Non-Polar)	ND	5	mg/L	09/16/1995	shr	338
Cadmium (ICP)	ND	0.02	mg/L	10/03/1995	jeo	782
Chromium (ICP)	ND	0.02	mg/L	10/03/1995	jeo	738
Copper (ICP)	ND	0.02	mg/L	10/03/1995	jeo	800
Lead (GFAA)	ND	0.002	mg/L	10/04/1995	ket	687
Zinc (ICP)	ND	0.05	mg/L	10/03/1995	jeo	908
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	09/24/1995		3193
Benzene	ND	0.5	ug/L	09/24/1995		3193
Toluene	ND	0.5	ug/L	09/24/1995		3193
Ethylbenzene	ND	0.5	ug/L	09/24/1995		3193
Xylenes (Total)	ND	0.5	ug/L	09/24/1995		3193
Bromofluorobenzene (SURR)	92		% Rec.	09/24/1995		3193
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	09/28/1995	dld	3211
Benzene	ND	0.5	ug/L	09/28/1995	dld	3211
Toluene	ND	0.5	ug/L	09/28/1995	dld	3211
Ethylbenzene	ND	0.5	ug/L	09/28/1995	dld	3211
Xylenes (Total)	ND	0.5	ug/L	09/28/1995	dld	3211
Bromofluorobenzene (SURR)	106		% Rec.	09/28/1995	dld	3211
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	09/30/1995	dld	3219
Benzene	ND	0.5	ug/L	09/30/1995	dld	3219
Toluene	ND	0.5	ug/L	09/30/1995	dld	3219
Ethylbenzene	ND	0.5	ug/L	09/30/1995	dld	3219
Xylenes (Total)	ND	0.5	ug/L	09/30/1995	dld	3219
Bromofluorobenzene (SURR)	97		% Rec.	09/30/1995	dld	3219
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	10/02/1995	dld	3225
Benzene	ND	0.5	ug/L	10/02/1995	dld	3225
Toluene	ND	0.5	ug/L	10/02/1995	dld	3225
Ethylbenzene	ND	0.5	ug/L	10/02/1995	dld	3225
Xylenes (Total)	ND	0.5	ug/L	10/02/1995	dld	3225
Bromofluorobenzene (SURR)	89		% Rec.	10/02/1995	dld	3225
METHOD 3510/8015-M (Shell)						
Extractable TPH	ND	0.05	mg/L	09/19/1995	tts	1075

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	09/15/1995	ltg	880
Bromoform	ND	0.4	ug/L	09/15/1995	ltg	880
Bromomethane	ND	0.4	ug/L	09/15/1995	ltg	880
Carbon tetrachloride	ND	0.4	ug/L	09/15/1995	ltg	880
Chlorobenzene	ND	0.4	ug/L	09/15/1995	ltg	880
Chloroethane	ND	0.4	ug/L	09/15/1995	ltg	880
2-Chloroethylvinyl ether	ND	1.0	ug/L	09/15/1995	ltg	880
Chloroform	ND	0.4	ug/L	09/15/1995	ltg	880
Chloromethane	ND	0.4	ug/L	09/15/1995	ltg	880
Dibromochloromethane	ND	0.4	ug/L	09/15/1995	ltg	880
1,2-Dichlorobenzene	ND	0.4	ug/L	09/15/1995	ltg	880
1,3-Dichlorobenzene	ND	0.4	ug/L	09/15/1995	ltg	880
1,4-Dichlorobenzene	ND	0.4	ug/L	09/15/1995	ltg	880
Dichlorodifluoromethane	ND	0.4	ug/L	09/15/1995	ltg	880
1,1-Dichloroethane	ND	0.4	ug/L	09/15/1995	ltg	880
1,2-Dichloroethane	ND	0.4	ug/L	09/15/1995	ltg	880
1,1-Dichloroethene	ND	0.4	ug/L	09/15/1995	ltg	880
cis-1,2-Dichloroethene	ND	0.4	ug/L	09/15/1995	ltg	880
trans-1,2-Dichloroethene	ND	0.4	ug/L	09/15/1995	ltg	880
1,2-Dichloropropane	ND	0.4	ug/L	09/15/1995	ltg	880
cis-1,3-Dichloropropene	ND	0.4	ug/L	09/15/1995	ltg	880
trans-1,3-Dichloropropene	ND	0.4	ug/L	09/15/1995	ltg	880
Methylene chloride	ND	10	ug/L	09/15/1995	ltg	880
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	09/15/1995	ltg	880
Tetrachloroethene	ND	0.4	ug/L	09/15/1995	ltg	880
1,1,1-Trichloroethane	ND	0.4	ug/L	09/15/1995	ltg	880
1,1,2-Trichloroethane	ND	0.4	ug/L	09/15/1995	ltg	880
Trichloroethene	ND	0.4	ug/L	09/15/1995	ltg	880
Trichlorofluoromethane	ND	0.4	ug/L	09/15/1995	ltg	880
Vinyl chloride	ND	0.4	ug/L	09/15/1995	ltg	880
1,4-Difluorobenzene (SURR)	98		% Rec.	09/15/1995	ltg	880
1,4-Dichlorobutane (SURR)	NA		% Rec.	09/15/1995	ltg	880
Bromochloromethane (SURR)	96		% Rec.	09/15/1995	ltg	880

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	09/16/1995	ltg	880
Bromoform	ND	0.4	ug/L	09/16/1995	ltg	880
Bromomethane	ND	0.4	ug/L	09/16/1995	ltg	880
Carbon tetrachloride	ND	0.4	ug/L	09/16/1995	ltg	880
Chlorobenzene	ND	0.4	ug/L	09/16/1995	ltg	880
Chloroethane	ND	0.4	ug/L	09/16/1995	ltg	880
2-Chloroethylvinyl ether	ND	1.0	ug/L	09/16/1995	ltg	880
Chloroform	ND	0.4	ug/L	09/16/1995	ltg	880
Chloromethane	ND	0.4	ug/L	09/16/1995	ltg	880
Dibromochloromethane	ND	0.4	ug/L	09/16/1995	ltg	880
1,2-Dichlorobenzene	ND	0.4	ug/L	09/16/1995	ltg	880
1,3-Dichlorobenzene	ND	0.4	ug/L	09/16/1995	ltg	880
1,4-Dichlorobenzene	ND	0.4	ug/L	09/16/1995	ltg	880
Dichlorodifluoromethane	ND	0.4	ug/L	09/16/1995	ltg	880
1,1-Dichloroethane	ND	0.4	ug/L	09/16/1995	ltg	880
1,2-Dichloroethane	ND	0.4	ug/L	09/16/1995	ltg	880
1,1-Dichloroethene	ND	0.4	ug/L	09/16/1995	ltg	880
cis-1,2-Dichloroethene	ND	0.4	ug/L	09/16/1995	ltg	880
trans-1,2-Dichloroethene	ND	0.4	ug/L	09/16/1995	ltg	880
1,2-Dichloropropane	ND	0.4	ug/L	09/16/1995	ltg	880
cis-1,3-Dichloropropene	ND	0.4	ug/L	09/16/1995	ltg	880
trans-1,3-Dichloropropene	ND	0.4	ug/L	09/16/1995	ltg	880
Methylene chloride	ND	10	ug/L	09/16/1995	ltg	880
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	09/16/1995	ltg	880
Tetrachloroethene	ND	0.4	ug/L	09/16/1995	ltg	880
1,1,1-Trichloroethane	ND	0.4	ug/L	09/16/1995	ltg	880
1,1,2-Trichloroethane	ND	0.4	ug/L	09/16/1995	ltg	880
Trichloroethene	ND	0.4	ug/L	09/16/1995	ltg	880
Trichlorofluoromethane	ND	0.4	ug/L	09/16/1995	ltg	880
Vinyl chloride	ND	0.4	ug/L	09/16/1995	ltg	880
1,4-Difluorobenzene (SURR)	97		% Rec.	09/16/1995	ltg	880
1,4-Dichlorobutane (SURR)	NA		% Rec.	09/16/1995	ltg	880
Bromochloromethane (SURR)	90		% Rec.	09/16/1995	ltg	880

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Run Batch	Sample Spiked
Oil & Grease (Total)	95.9	94.6	1.4	106.4	ND	102.0	104.8	mg/L	09/16/1995	356	250927
Oil & Grease (Non-Polar)	95.9	94.6	1.4	106.4	ND	102.0	104.8	mg/L	09/16/1995	338	250927
METHOD 6010 (LIQUID)									10/11/1995	943	251128
Cadmium (ICP)	93.8	96.6	2.9	1.00	ND	0.9375	0.9659	mg/L	10/11/1995	783	251128
Chromium (ICP)	99.9	100.8	0.8	1.00	ND	0.9992	1.008	mg/L	10/11/1995	739	251128
Copper (ICP)	93.4	95.5	2.2	1.00	ND	0.9343	0.9552	mg/L	10/11/1995	801	251128
Lead (GFAA)	101.5	107.8	6.0	0.0250	ND	0.02537	0.0269	mg/L	10/04/1995	687	251125
Zinc (ICP)	95.6	100.0	4.4	1.00	ND	0.9563	1.000	mg/L	10/11/1995	909	251128
METHOD 5030/8015-M (Shell)											250983
Purgeable TPH	102.0	100.0	2.0	0.50	ND	0.51	0.50	mg/L	09/24/1995	3193	250983
Benzene	92.1	105.9	13.8	7.93	3.0 C	10.3	11.4	ug/L	09/24/1995	3193	250983
Toluene	106.9	103.6	3.1	33.2	ND	35.5	34.4	ug/L	09/24/1995	3193	250983
METHOD 5030/8015-M (Shell)											251414
Benzene	94.8	93.3	1.6	8.01	ND	7.59	7.47	ug/L	09/28/1995	3211	251414
Toluene	88.3	92.6	4.8	28.2	ND	24.9	26.1	ug/L	09/28/1995	3211	251414
METHOD 5030/8015-M (Shell)											251613
Purgeable TPH	102.0	104.0	1.9	0.50	ND	0.51	0.52	mg/L	09/30/1995	3219	251613
Benzene	98.9	100.3	1.3	7.38	0.7 C	8.00	8.10	ug/L	09/30/1995	3219	251613
Toluene	91.9	95.9	4.3	27.1	2.1 C	27.0	28.1	ug/L	09/30/1995	3219	251613
METHOD 5030/8015-M (Shell)											250024
Purgeable TPH	104.0	102.0	1.9	0.50	ND	0.52	0.51	mg/L	10/02/1995	3225	250024
Benzene	103.0	100.5	2.5	6.56	ND	6.76	6.59	ug/L	10/02/1995	3225	250024
Toluene	104.1	102.5	1.5	24.1	ND	25.1	24.7	ug/L	10/02/1995	3225	250024

C Positive result confirmed by secondary column or GC/MS analysis

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Run Batch	Sample Spiked
METHOD 8010 (GC,Liquid)											250848
Chlorobenzene	90.0	87.0	3.4	20.0	ND	18.0	17.4	ug/L	09/15/1995	880	250848
1,1-Dichloroethene	87.0	86.0	1.2	20.0	ND	17.4	17.2	ug/L	09/15/1995	880	250848
Trichloroethene	84.0	84.5	0.6	20.0	ND	16.8	16.9	ug/L	09/15/1995	880	250848

Ref: Shell 2101 Park Blvd., Oakland, CA/950912-A4

LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	Duplicate LCS % Recovery	RPD	LCS Amount Found	Duplicate LCS Amount Found	LCS Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch
Oil & Grease (Total)	91.8			108.7		118.4	mg/L	09/16/1995	shr	356
Oil & Grease (Non-Polar)	89.6			103.1		115.1	mg/L	09/16/1995	shr	338
Cadmium (ICP)	101.2			1.012		1.00	mg/L	10/03/1995	jeo	782
Chromium (ICP)	105.7			1.057		1.00	mg/L	10/03/1995	jeo	738
Copper (ICP)	100.7			1.007		1.00	mg/L	10/03/1995	jeo	800
Lead (GFAA)	100.6			0.02515		0.0250	mg/L	10/04/1995	ket	687
Zinc (ICP)	101.2			1.012		1.00	mg/L	10/03/1995	jeo	908
METHOD 3510/8015-M (Shell)										
Extractable TPH	67.9			0.679		1.00	mg/L	09/19/1995	tts	1075

NET®

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 [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.

8482

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 950912-AY

Date: 9/12/95
Page 1 of 1

Site Address: 2101 Park Blvd., Oakland, CA

WIC#: 204-5508-1206

Shell Engineer: Lynn Walker
Phone No.: (510) 675-6169
Fax #:

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

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

Comments:

Sampled by: Randy Valentine

Printed Name: RANDY VALENTINE

LAB: NET

CHECK ONE (1) BOX ONLY		CT/DT	TURN AROUND TIME
G.W. Monitoring	X	4461	24 hours ☐
Site Investigation	☐	4441	48 hours ☐
Soil Classify/Disposal	☐	4442	15 days X (Normal)
Water Classify/Disposal	☐	4443	Other ☐
Soil/Air Rem. or Sys. O & M	☐	4452	NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.
Water Rem. or Sys. O & M	☐	4453	
Other	☐		

UST AGENCY:

Sample ID	Date	Time (~~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	8010	TOTAL OIL & GREASE	~~Asbestos~~ ICAP METALS	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-1	9/12	1550		X		12		X				X	X	X	X					
S-2	9/12	1614		X		3						X								
S-3	9/12	1640	-	X		3						X								
EB	9/12	1618		X	-	3						X								
DUP	9/12			X		3						X								
TB	9/12			X		2						X								

CUSTODY SEALED
Date 9/13 Time 1330 Initials RS
SEAL INTACT?
Yes ✓ No ___ Initials

Relinquished By (signature):	Printed Name:	Date: 9-13-95 Time: 1145	Received (signature):	Printed Name:	Date: 9-13-95 Time: 1143
Relinquished By (signature):	Printed Name:	Date: 9-13-95 Time: 1330	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: 9/14/95 Time: 1005

RANDY VALENTINE | Phyllis Smart | Phyllis Smart | PHIL TROSSER

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

End Of One of Copies

915 478 3810

COOLER RECEIPT FORM

Project: 95092-A4 Log No: 3482
Cooler received on: 9/4/95 and checked on 9/4/95 by
(signature)

Were custody papers present?.....~~YES~~ NO

Were custody papers properly filled out?.....~~YES~~ NO

Were the custody papers signed?.....~~YES~~ NO

Was sufficient ice used?.....~~YES~~ NO TEMP. 2.5°C

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

VOA vials checked for headspace bubbles?.....~~YES~~ NO
Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:
DUP	1
TB	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)

WELL GAUGING DATA

Project # 950912-A4 Date 9-12-95 Client SHELL

Site 2101 PARK BLVD., OAKLAND

Well I.D.	Well Size (in.)	Sheen/ Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TOB or TOC
S-1	2					4.19	17.31	TOC
S-2	2					5.78	17.40	"
S-3	2	ODOR				5.37	17.34	"

SHELL WELL MONITORING DATA SHEET

Project #: 950912-A4	Wic #: 204 5508 1206
Sampler: RV	Start Date: 9-12-95
Well I.D.: S-1	Well Diameter: (circle one) (2) 3 4 6 ____
Total Well Depth: Before 17.31 After	Depth to Water: Before 4.19 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

2.0 (1 Case Volume) x 3 (Specified Volumes) = 6.0 gallons

Purging: Bailer
Disposable Bailer ✓
Middleburg
Electric Submersible
Extraction Pump
Other_____

Sampling: Bailer
Disposable Bailer ✓
Extraction Port
Other_____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1535	66.8	7.4	920	7200	2.0	
1539	66.4	7.4	970	7200	4.0	
1543	66.2	7.5	970	>200	6.0	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 6.0

Sampling Time: 1550	Sampling Date: 9-12-95
Sample I.D.: S-1	Laboratory: NET
Analyzed for: (Circle) TPH-G BTEX TPH-D	OTHER: 8010, TOG, ICAP METALS
Duplicate I.D.:	Cleaning Blank I.D.: ~~FIELD~~
Analyzed for: (Circle) TPH-G BTEX TPH-D	OTHER:

SHELL WELL MONITORING DATA SHEET

Project #: 950912-A4	Wic #: 204 5508 1206
Sampler: RV	Start Date: 9-12-95
Well I.D.: S-2	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 17.40 After	Depth to Water: Before 5.78 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1 Case Volume	x	Specified Volumes	=	gallons
1.8	x	3	=	5.0

Purging: Bailer
Disposable Bailer ✓
Middleburg
Electric Submersible
Extraction Pump
Other_____

Sampling: Bailer
Disposable Bailer_
Extraction Port
Other_____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1603	66.0	7.5	1270	>200	2.0	ODOR
1607	64.0	7.3	1300	>200	4.0	
1610	64.4	7.3	1300	>200	5.5	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 5.5

Sampling Time: 1614 Sampling Date: 9-12-95

Sample I.D.: S-2 Laboratory: NET

Analyzed for: (TPH-G) (BTEX) TPH-D OTHER:
(Circle)

Duplicate I.D.: Cleaning Blank I.D.: EB @ 1618

Analyzed for: TPH-G BTEX TPH-D OTHER:
(Circle)

SHELL WELL MONITORING DATA SHEET

Project #: 950912-AC	Wic #: 2045508 1206
Sampler: RV	Start Date: 9-12-95
Well I.D.: S-3	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 17.34 After	Depth to Water: Before 5.37 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1.9 (1 Case Volume) x 3 (Specified Volumes) = 5.7 gallons

Purging: Bailer
Disposable Bailer ✓
Middleburg
Electric Submersible
Extraction Pump
Other_____

Sampling: Bailer
Disposable Bailer ✓
Extraction Port
Other_____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1625	67.0	7.2	1350	7200	2.0	ODOR
1628	66.0	7.3	1270	7200	4.0	
1632	65.8	7.1	1270	7200	6.0	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 6.0

Sampling Time: 1640 Sampling Date: 9-12-95

Sample I.D.: S-3 Laboratory: NET

Analyzed for: (TPH-G) (BTEX) TPH-D OTHER:
(Circle)

Duplicate I.D.: DUP Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:
(Circle)

WELL HEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client SHELL Site # 204 5508 1206 Inspection date: 9-12-95

Site address 2101 PARK BLVD. Inspected by: RV

OAKLAND BTS Event # 950912-A4

1. Lid on the box? Yes No	5. Water standing in the well box?	7. Can cap be pulled loose?
2. Lid whole?	5a. Standing above well top?	8. Can cap seal out water?
3. Lid secure?	5b. Standing below well top?	9. Padlock present?
4. Lid seal intact?	5c. Water even with top of well cap?	10. Padlock found locked?
	6. Well cap/plug present?	11. Padlock functional?

☑ Check box if *no deficiences* were found. Note below deficiencies you were able to correct.

Well I.D.	Deficiency	Corrective Action Taken

Note below all deficiences that could not be corrected and *still need to be corrected.*

Well I.D.	Persisting Deficiency	BTS Office assigns or defers Correction to:	Date assigned	Date corrected

Office review and assignments made by _____ date _____