



P.O. BOX 1601, OXNARD, CALIFORNIA 93032
(805) 644-5892 • FAX (805) 654-0720

GROUND WATER MONITORING REPORT

for
Former Desert Petroleum
Station No. 793
4035 Park Boulevard
Oakland, California 94602

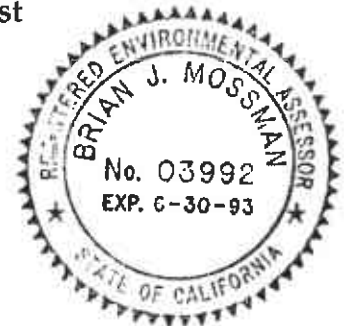
prepared for:
Desert Petroleum
2060 Knoll Drive
Ventura, CA 93003

prepared by:
RSI - Remediation Service, Int'l
P.O. Box 1601
Oxnard, CA 93032

Steven M. Richardson, RG #4684
Project Manager



Brian J. Mossman, REA #03992
Project Geologist



December 4, 1992

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1.0 INTRODUCTION

This report presents the ground water monitoring results for Desert Petroleum's former Station No. 793. The site is located at 4035 Park Boulevard, Oakland, Alameda County, California (Figure 1).

2.0 GROUND WATER SAMPLING PROCEDURES

On November 9 and 10, 1992, the four ground water monitoring wells associated with this site, RS-1, RS-5, RS-6 and RS-7, were monitored for floating product and the depth to ground water was measured to an accuracy of 0.01 feet before purging and sampling. It was also found that vapor extraction well RS-2 contained water and it was also purged and sampled.

Purging was accomplished with a PVC bailer which was decontaminated between wells using a standard 3-bucket wash method. The wells were either purged until dry or a minimum of four (4) casing volumes of water was removed. Ph, temperature and conductivity of the purged water was monitored and recorded with all other pertinent information (Water Sample Logs, Appendix A). The purged water was placed in 55 gallon DOT drums and left at the site to be treated by the S.A.V.E. equipment.

After the wells had recovered a minimum of 80 percent of their initial volume, water samples were collected. Samples were collected with disposable bailers and a new bailer was used for each well. Three (3) 40-milliliter VOA vials were collected from each well. The samples were labeled, placed on ice and transported to BTC Environmental, Inc., a state certified laboratory in Ventura, California. A field blank was used for QA/QC purposes.

The samples were tested for total petroleum hydrocarbons (TPH) as gasoline using EPA Method 8015 and benzene, toluene, ethyl-benzene and total xylenes (BTEX) using Modified EPA Method 8020.

In addition to the ground water sampling, the air space within utility boxes, well casings and storm drains in the immediate vicinity of the site were monitored for organic vapors with a calibrated photoionization detector (PID).

3.0 RESULTS

3.1 WATER TABLE ELEVATION

The elevations of wells RS-1, RS-5, and RS-6 were resurveyed to an accuracy of 0.01 feet. Table 1 shows the depth to water measurements and the water

table elevation data for the wells at this site. The elevation of well RS-7 (located off-site) was not resurveyed and the elevation used by the previous consultant has been retained. As shown on Figure 3, ~~the direction of ground water flow is toward the northwest~~ at a gradient of 6.25 vertical feet per 100 horizontal feet. The water contained in the vapor extraction well, RS-2, appears to be the result of a slowly leaking water line that was broken during the drilling of the well. The water level elevation in RS-2 was not considered in the determination of the ground water flow direction and gradient.

3.2 GROUND WATER ANALYTICAL RESULTS

The analytical results of the samples from wells RS-1, RS-5, RS-6 and RS-7 all showed concentrations of TPH as gasoline and BTEX compounds. ✓ The water found in vapor extraction well RS-2 showed no detectable concentrations of TPH as gasoline, toluene, ethylbenzene and xylenes. ✓ A very low benzene concentration (below State Drinking Water Action Levels) was found in the sample from RS-2. ✓ A summary of analytical results from the current and previous sampling episodes are shown in Table 2 and laboratory reports are included in Appendix B. As shown in Table 2, the TPH as gasoline and BTEX concentrations have decreased in all the wells since the last sampling episode in ~~January 1992~~ Dec. 91 ✓

3.3 VAPOR MONITORING RESULTS

The results of the vapor monitoring at the nearby utility boxes, storm drains and well casings show that organic vapor concentrations have dramatically decreased since the last sampling conducted in January of 1991. ✓ The highest reading from the January sampling, 596 ppm, found in well RS-7 has decreased to 40 ppm. ✓

4.0 LIMITATIONS

The discussion and recommendation presented in this report are based on the following:

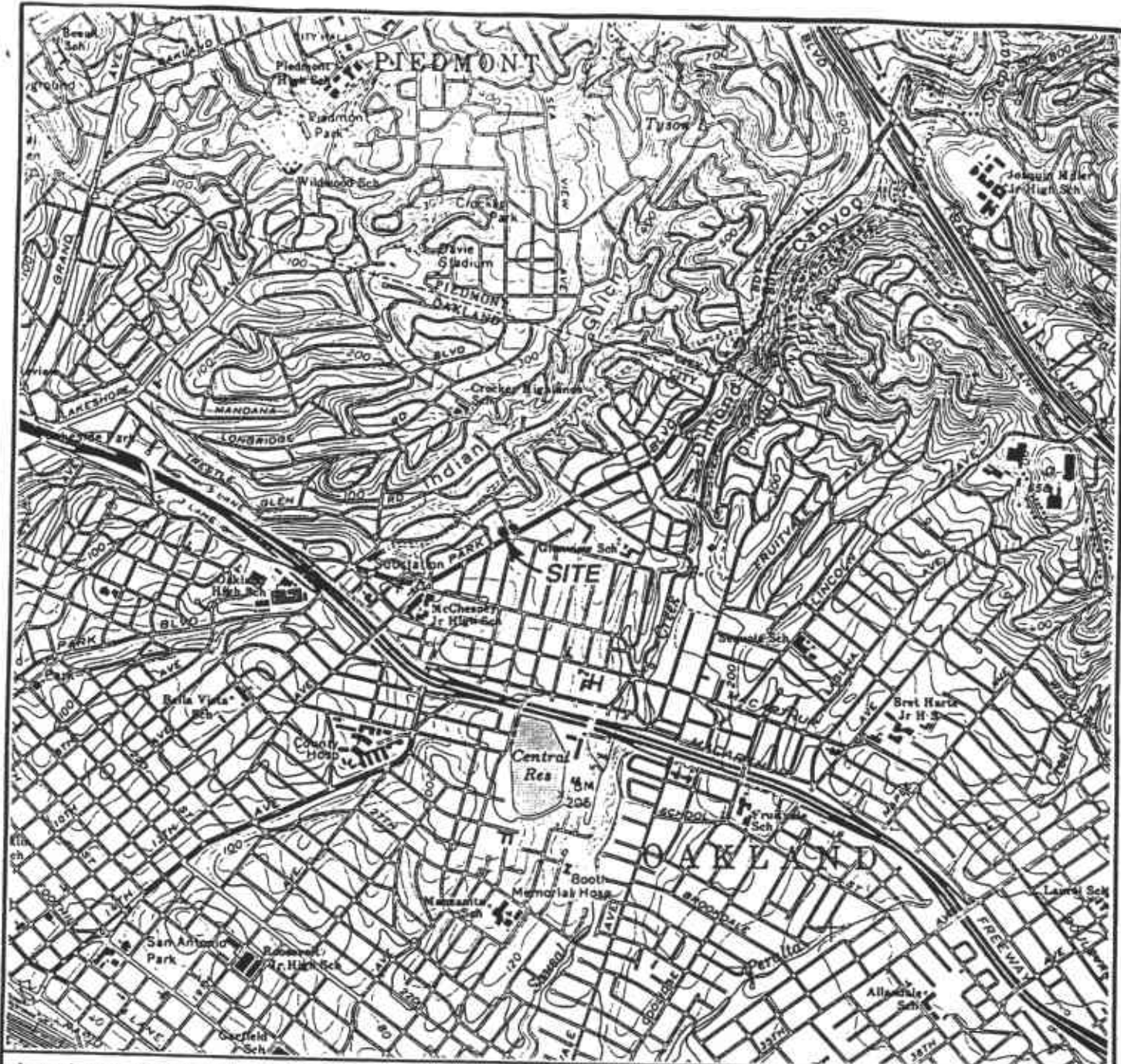
1. The professional performance of the personnel who conducted the investigations.
2. The observations of the field personnel.
3. The results of laboratory analyses performed by a state certified laboratory.
4. Any referenced documents.

5. Our understanding of the regulations of the State of California; also, if applicable, other local regulations.

It is possible that variations in the soil and ground water conditions could exist beyond the points explored in this investigation.

The services performed by Remediation Service, Int'l have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the State of California.

Please note that contamination of soil and/or ground water must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

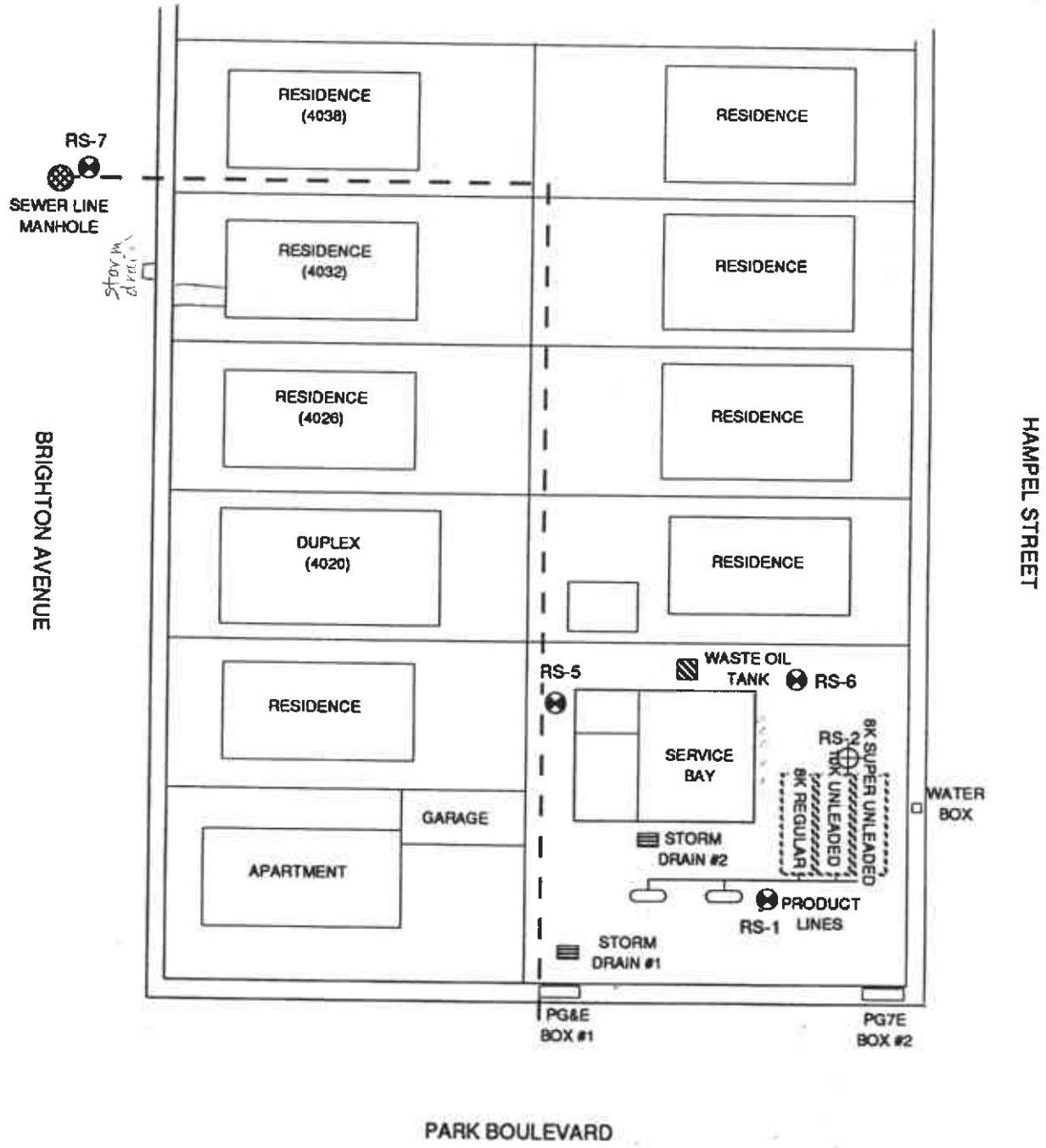
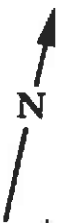


A portion of the U.S.G.S. "Oakland East, California" 7 1/2' quadrangle

LOCATION MAP
DESERT PETROLEUM STATION NO. 793
OAKLAND, CALIFORNIA
 Prepared for
DESERT PETROLEUM
VENTURA, CALIFORNIA



FIGURE 1



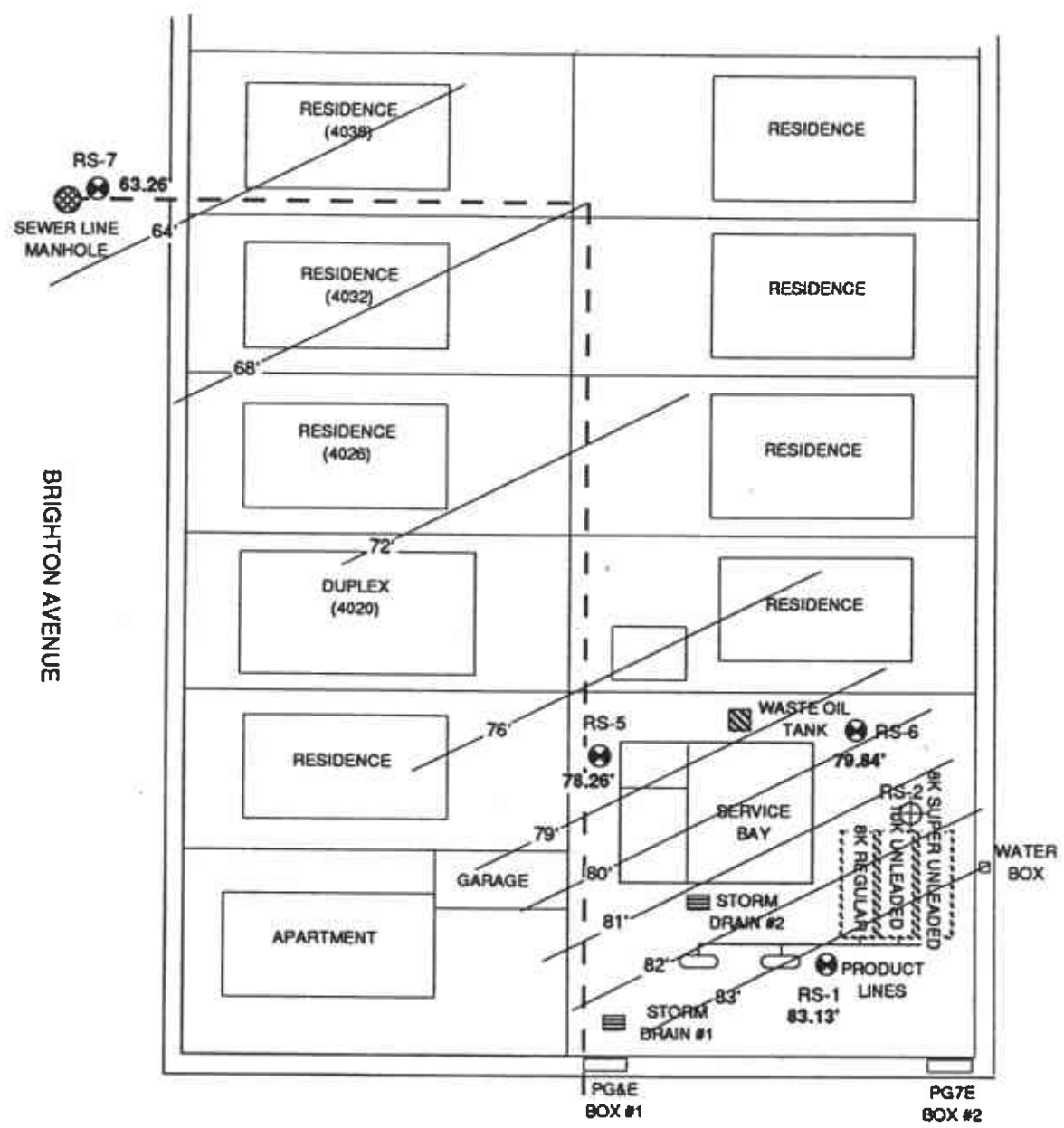
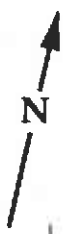
LEGEND

- MONITORING WELL LOCATION
RS-1
- VAPOR EXTRACTION WELL





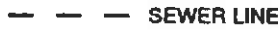


--- SEWER LINE

DESERT PETROLEUM
FORMER DESERT PETROLEUM STATION #793, 4035 PARK BLVD., OAKLAND, CA FIGURE 2- PLOT PLAN
RSI REMEDIATION SERVICE, INT'L.



LEGEND

-  79' CONTOUR LINE OF EQUAL GROUND WATER ELEVATION
-  MONITORING WELL LOCATION
RS-1
-  VAPOR EXTRACTION WELL
-  SCALE IN FEET
0 25 50
-  SEWER LINE

DESERT PETROLEUM
FORMER DESERT PETROLEUM STATION #793, 4035 PARK BLVD., OAKLAND, CA FIGURE 3- GROUND WATER CONTOUR MAP
RSI REMEDIATION SERVICE, INT'L.

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
DESERT PETROLEUM STATION #793

Measurements are in feet.

Well	Date Measured	Depth to Water	Well Head Elevation*	Water Table Elevation*
RS-1	11/9/92	17.05	100.18	83.13
RS-5	11/9/92	20.73	98.99	78.26
RS-6	11/9/92	19.43	99.27	79.84
RS-7	11/9/92	4.62	67.88**	63.26

*Elevation in feet above Mean Sea Level.

Wells RS-1, -5, and -6 elevations were resurveyed with
RS-1 elevation datum taken from previous consultant's survey.

**RS-7 elevation taken from previous consultant's survey.

**TABLE 2
SUMMARY OF GROUND WATER ANALYTICAL RESULTS
DESERT PETROLEUM STATION #793**

Measurements are in parts per million (ppm)

WELL #	DATE SAMPLED	TPH (as gasoline)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	
RS-1	12/89	19	2.6	2.7	0.2	1.2	
	12/90	15	3.5	0.33	0.17	0.76	
	2/91	6.9	0.91	0.2	0.039	0.54	
	6/91	1.6	0.056	0.18	0.012	0.026	
	9/91	4.1	0.73	0.0076	0.0051	0.024	
	12/91	8.3 <i>8,300</i>	0.95 <i>950</i>	0.16	0.071	0.19	
	11/92	1.7 <i>1,700</i>	0.73 <i>730</i>	0.0096 ✓	0.016 ✓	0.014 ✓	
RS-5	12/89	57	3.1	4.3	0.67	3.4	
	2/91	Not sampled due to presence of free product					
	6/91	Not sampled due to presence of free product					
	9/91	Not sampled due to presence of free product					
	12/91	Not sampled due to presence of free product					
	11/92	50 <i>50,000</i>	0.65 <i>650</i>	4.8 ✓	1.1 ✓	15 ✓	
RS-6	12/89	11	1.4	1.7	0.16	0.86	
	2/91	Not sampled due to presence of free product					
	6/91	95	4.2	4.2	0.65	3.7	
	9/91	Not sampled due to presence of free product					
	12/91	64 <i>64,000</i>	3.7 <i>3,700</i>	2.3	0.73	4.1	
	11/92	19 <i>19,000</i>	1.6 <i>1,600</i>	0.71 ✓	0.5 ✓	1.6 ✓	
RS-7	7/90	5600	24	210	50	740	
	2/91	Not sampled due to presence of free product					
	6/91	Not sampled due to presence of free product					
	9/91	Not sampled due to presence of free product					
	12/91	270 <i>270,000</i>	11 <i>11,000</i>	22	2	13	
	11/92	81 <i>81,000</i>	12 <i>12,000</i>	16 ✓	1.9 ✓	13 ✓	

RS-2
11-92 *ND.* *apb* *.69* *ND* *ND* *ND*

**APPENDIX A
WATER SAMPLE LOGS**

WATER SAMPLE LOG

CLIENT: Desert Petroleum DATE: 11/9/92
 PROJECT: DP 793
 LOCATION: 4035 Park Blvd., Oakland, CA.

WELL NUMBER: RS-1

WEATHER CONDITIONS: Clear and warm
 FIELD OBSERVATIONS: Water clear, no odor, slow recharge

TOTAL DEPTH OF WELL: 26.35 feet CASING DIAMETER: 4 inches
 DEPTH TO FREE PRODUCT: None ONE WELL VOLUME = 6.1 gallons
 DEPTH TO WATER: 17.05 feet PURGING METHOD: PVC bailer
 DEPTHS MEASURED FROM: Top of well cover

INDICATOR PARAMETERS

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments (Color, Odor, Turbidity)
1530	0	6.97	62.3	0.91	Clear, none, none
1533	3	6.96	64.5	0.95	Clear, none, low
1540	6	7.06	62.7	0.87	Clear, none, low

TOTAL DISCHARGE: Dry @ 6 gallons CASING VOLUMES REMOVED: 1

TIME SAMPLE COLLECTED: 700, 11/10/92
 DEPTH TO WATER AT TIME OF SAMPLE: 18 feet PERCENT RECHARGE: 90
 METHOD OF SAMPLE COLLECTION: Disposable bailer
 APPEARANCE OF SAMPLE: Clear
 AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 - 40ml VOA's
 SAMPLE TRANSPORTED TO: BTC, Ventura

SAMPLED BY: BJM

RSI - REMEDIATION SERVICE, INT'L

WATER SAMPLE LOG

CLIENT: Desert Petroleum

DATE: 11/9/92

PROJECT: DP 793

LOCATION: 4035 Park Blvd., Oakland, CA.

WELL NUMBER: RS-2

WEATHER CONDITIONS: Clear and warm

FIELD OBSERVATIONS: Water clear, no odor

TOTAL DEPTH OF WELL: 19.22 feet CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: None ONE WELL VOLUME = 4.8 gallons

DEPTH TO WATER: 11.84 feet PURGING METHOD: PVC bailer

DEPTHS MEASURED FROM: Top of well cover

INDICATOR PARAMETERS

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (μ mhos/cm)	Comments (Color, Odor, Turbidity)
1510	0	6.78	68.1	0.41	Clear, none, none
1512	5	6.77	68.0	0.42	Clear, none, none
1515	9	6.81	67.1	0.41	Clear, none, none

TOTAL DISCHARGE: Dry @ 9 gallons CASING VOLUMES REMOVED: 2

TIME SAMPLE COLLECTED: 710, 11/10/92

DEPTH TO WATER AT TIME OF SAMPLI 12.5 feet PERCENT RECHARGE: 98

METHOD OF SAMPLE COLLECTION: Disposable bailer

APPEARANCE OF SAMPLE: Clear and nonturbid

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 - 40ml VOA's

SAMPLE TRANSPORTED TO: BTC, Ventura

SAMPLED BY: BJM

RSI - REMEDIATION SERVICE, INT'L

WATER SAMPLE LOG

CLIENT: Desert Petroleum

DATE: 11/9/92

PROJECT: DP 793

LOCATION: 4035 Park Blvd., Oakland, CA.

WELL NUMBER: RS-5

WEATHER CONDITIONS: Clear and warm

FIELD OBSERVATIONS: Water is clear with moderate HC odor, floating organic material & slight sheen
cement seal around traffic box is damaged

TOTAL DEPTH OF WELL: 39.5 feet

CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: None

ONE WELL VOLUME = 12.3 gallons

DEPTH TO WATER: 20.73 feet

PURGING METHOD: PVC bailer

DEPTHS MEASURED FROM: Top of well casing

INDICATOR PARAMETERS

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (μ mhos/cm)	Comments (Color, Odor, Turbidity)
1547	0	7.32	60.2	0.67	Lt. yellow, slight HC odor, very low
1550	5	7.30	62.1	0.66	Lt. yellow, slight HC odor, very low
1553	12	7.26	62.6	0.65	yellow, slight HC odor, low
1558	20	7.23	61.9	0.66	Lt. brown, slight HC odor, low (silty)
1602	25	7.23	62.6	0.63	Lt. brown, slight HC odor, low (silty)
1611	35	7.24	62.2	0.63	Lt. brown, slight HC odor, low (silty)
1620	45	7.27	63.3	0.64	Lt. brown, slight HC odor, low (silty)
1627	50	7.27	63.4	0.64	Lt. brown, slight HC odor, low (silty)

TOTAL DISCHARGE: 50 gallons

CASING VOLUMES REMOVED: 4

TIME SAMPLE COLLECTED: 730, 11/10/92

DEPTH TO WATER AT TIME OF SAMPLE: 21 feet PERCENT RECHARGE: 98

METHOD OF SAMPLE COLLECTION: Disposable bailer

APPEARANCE OF SAMPLE: Clear and nonturbid with HC odor

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 - 40ml VOA's

SAMPLE TRANSPORTED TO: BTC, Ventura

SAMPLED BY: BJM

RSI - REMEDIATION SERVICE, INT'L

WATER SAMPLE LOG

CLIENT: Desert Petroleum

DATE: 11/9/92

PROJECT: DP 793

LOCATION: 4035 Park Blvd., Oakland, CA.

WELL NUMBER: RS-6

WEATHER CONDITIONS: Clear and warm

FIELD OBSERVATIONS: Water is clear slight HC odor, black organic material

TOTAL DEPTH OF WELL: 35 feet

CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: None

ONE WELL VOLUME = 10.2 gallons

DEPTH TO WATER: 19.43 feet

PURGING METHOD: PVC bailer

DEPTHS MEASURED FROM: Top of well cover

INDICATOR PARAMETERS

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (μ mhos/cm)	Comments (Color, Odor, Turbidity)
1517	0	6.78	61.1	0.69	Clear, slight HC odor, none
1519	5	6.77	62.3	0.76	Lt. gray, HC odor, low-black particles
1522	10	6.80	62.5	0.84	Lt. gray, HC odor, low-black particles
1524	15	6.84	62.7	0.8	Gray, HC odor, mod.-black particles
1526	20	6.88	62.9	0.83	Gray, HC odor, high-black particles
1528	25	6.85	62.8	0.84	Gray, HC odor, low-black particles

TOTAL DISCHARGE: Dry @ 25 gallons

CASING VOLUMES REMOVED: 2.5

TIME SAMPLE COLLECTED: 730, 11/10/92

DEPTH TO WATER AT TIME OF SAMPLE: 21 feet

PERCENT RECHARGE: 98

METHOD OF SAMPLE COLLECTION: Disposable bailer

APPEARANCE OF SAMPLE: Clear, light yellow color and nonturbid with HC odor

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 - 40ml VOA's

SAMPLE TRANSPORTED TO: BTC, Ventura

SAMPLED BY: BJM

RSI - REMEDIATION SERVICE, INT'L

WATER SAMPLE LOG

CLIENT: Desert Petroleum DATE: 11/9/92
 PROJECT: DP 793
 LOCATION: 4035 Park Blvd., Oakland, CA.

WELL NUMBER: RS-7

WEATHER CONDITIONS: Clear and warm
 FIELD OBSERVATIONS: Water is clear with slight HC odor, floating organic material

TOTAL DEPTH OF WELL: 7.66 feet CASING DIAMETER: 4 inches
 DEPTH TO FREE PRODUCT: None ONE WELL VOLUME = 2 gallons
 DEPTH TO WATER: 4.62 feet PURGING METHOD: PVC bailer
 DEPTHS MEASURED FROM: Top of well cover

INDICATOR PARAMETERS

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments (Color, Odor, Turbidity)
1430	0	7.2	67.0	0.88	Clear, slight HC odor, none
1435	2.5	6.79	68.2	0.91	Clear, HC odor, low- bacterial growth
1437	5	6.77	68.4	0.89	Clear, HC odor, low- bacterial growth
1439	7.5	6.79	68.3	0.88	Clear, HC odor, low- bacterial growth
1443	10	6.77	68.2	0.89	Clear, HC odor, low- bacterial growth

TOTAL DISCHARGE: 10 gallons CASING VOLUMES REMOVED: 5

TIME SAMPLE COLLECTED: 1500, 11/9/92
 DEPTH TO WATER AT TIME OF SAMPLE: 4.8 feet PERCENT RECHARGE: 94
 METHOD OF SAMPLE COLLECTION: Disposable bailer
 APPEARANCE OF SAMPLE: Clear, and nonturbid
 AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 - 40ml VOA's
 SAMPLE TRANSPORTED TO: BTC, Ventura

SAMPLED BY: BJM

RSI - REMEDIATION SERVICE, INT'L

APPENDIX B
LABORATORY REPORTS

BTC Environmental, Incorporated
1536 Eastman Avenue, Suite B
Ventura, CA. 93003
(805) 644-1095

Prepared For: R.S.I. November 19, 1992
P. O. Box 1601
Oxnard, CA 93032

Attention: Steve Richardson

Laboratory No: 922841 Job No: B01728
Date Received: 11-NOV-92 Sampled By: Client
Sample ID: See Below Project: DP-793

RESULTS

On November 11, 1992, six (6) samples were received for analysis by BTC Environmental, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 20 pages excluding the cover letter.

<u>SAMPLE DESCRIPTION</u>	<u>BTCE LAB NUMBER</u>
RS-1	92284101
RS-2	92284102
RS-5	92284103
RS-6	92284104
RS-7	92284105
Field Blank	92284106

Dan Farah
Dan A. Farah, Ph.D.
Director - Analytical Operations

This report shall not be reproduced except in full without the written approval of BTC Environmental, Inc.

The test results reported represent only the items being tested and may not represent the entire material from which the sample was taken.

BTC Environmental, Incorporated
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: RSI (GASCO)
Sample ID: RS-1
BTCE LAB NO: 92284101
Date Received: 11/11/92
Date Sampled: 11/10/92

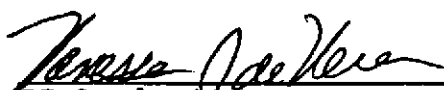
Date Analyzed: 11/11/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

AROMATIC VOLATILE COMPOUNDS
EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	730 ✓	10	3
Toluene	9.6	1	0.3
Ethylbenzene	16	1	0.3
Xylenes	14	1	0.9

Note: The sample was analyzed for Benzene on 11/11/92.

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: RSI (GASCO)
Sample ID: RS-1
BTCE LAB NO: 92284101
Date Received: 11/11/92
Date Sampled: 11/10/92


Date Analyzed: 11/11/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
TPH as Gasoline	1.7	1	0.5

Note: The sample was analyzed for Benzene on 11/11/92.

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

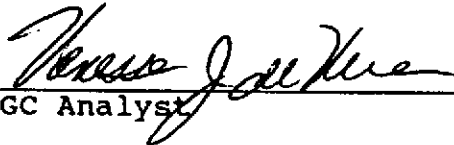
Client: RSI (GASCO)
Sample ID: RS-2
BTCE LAB NO: 92284102
Date Received: 11/11/92
Date Sampled: 11/10/92

Date Analyzed: 11/11/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

AROMATIC VOLATILE COMPOUNDS
EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	0.69	1	0.3
Toluene	BQL	1	0.3
Ethylbenzene	BQL	1	0.3
Xylenes	BQL	1	0.9

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: RSI (GASCO)
Sample ID: RS-2
BTCE LAB NO: 92284102
Date Received: 11/11/92
Date Sampled: 11/10/92

Date Analyzed: 11/11/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
TPH as Gasoline	BQL	1	0.5

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: RSI (GASCO)
Sample ID: RS-5
BTCE LAB NO: 92284103
Date Received: 11/11/92
Date Sampled: 11/10/92

Date Analyzed: 11/13/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

AROMATIC VOLATILE COMPOUNDS
EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	650 ✓	10	3
Toluene	4800 ✓	200	60
Ethylbenzene	1100	200	60
Xylenes	15000	200	200

Note: The sample was analyzed for Toluene, Ethylbenzene, and Xylenes on 11/16/92.

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

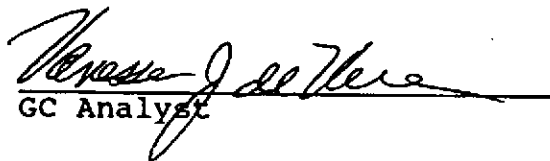
Client: RSI (GASCO)
Sample ID: RS-5
BTCE LAB NO: 92284103
Date Received: 11/11/92
Date Sampled: 11/10/92

Date Analyzed: 11/13/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
TPH as Gasoline	50	10	5.0

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: RSI (GASCO)
Sample ID: RS-6
BTCE LAB NO: 92284104
Date Received: 11/11/92
Date Sampled: 11/10/92

Date Analyzed: 11/13/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

AROMATIC VOLATILE COMPOUNDS
EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	1600	40	10
Toluene	710	10	3
Ethylbenzene	500	10	3
Xylenes	1600	40	40

Note: The sample was analyzed for Benzene and Xylenes on 11/16/92.

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: RSI (GASCO)
Sample ID: RS-6
BTCE LAB NO: 92284104
Date Received: 11/11/92
Date Sampled: 11/10/92

Date Analyzed: 11/13/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
TPH as Gasoline	19	10	5.0

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

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Client: RSI (GASCO)
Sample ID: RS-7
BTCE LAB NO: 92284105
Date Received: 11/11/92
Date Sampled: 11/10/92

Date Analyzed: 11/17/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

AROMATIC VOLATILE COMPOUNDS
EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	12000	200	60
Toluene	16000	200	60
Ethylbenzene	1900	200	60
Xylenes	13000	200	200

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

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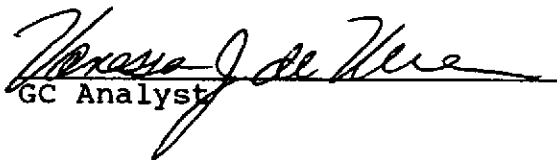
Client: RSI (GASCO)
Sample ID: RS-7
BTCE LAB NO: 92284105
Date Received: 11/11/92
Date Sampled: 11/10/92

Date Analyzed: 11/16/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
TPH as Gasoline	81	100	50

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
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Client: RSI (GASCO)
Sample ID: Field Blank
BTCE LAB NO: 92284106
Date Received: 11/11/92
Date Sampled: 11/10/92

Date Analyzed: 11/11/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

AROMATIC VOLATILE COMPOUNDS
EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.3
Toluene	BQL	1	0.3
Ethylbenzene	BQL	1	0.3
Xylenes	BQL	1	0.9

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
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Client: RSI (GASCO)
Sample ID: Field Blank
BTCE LAB NO: 92284106
Date Received: 11/11/92
Date Sampled: 11/10/92

Date Analyzed: 11/11/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

**TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m**

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
TPH as Gasoline	BQL	1	0.5

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

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Client: RSI (GASCO)
Sample ID: Method Blank
BTCE LAB NO: 922841-MB

Date Analyzed: 11/11/92
Analyst: VDV
Sample Matrix: Liquid

METHOD BLANK ANALYSIS
EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.3
Toluene	BQL	1	0.3
Ethylbenzene	BQL	1	0.3
Xylenes	BQL	1	0.9

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
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(805) 644-1095

Client: RSI (GASCO)
Sample ID: Method Blank
BTCE LAB NO: 922841-MB

Date Analyzed: 11/11/92
Analyst: VDV
Sample Matrix: Liquid

METHOD BLANK ANALYSIS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
TPH as Gasoline	BQL	1	0.5

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

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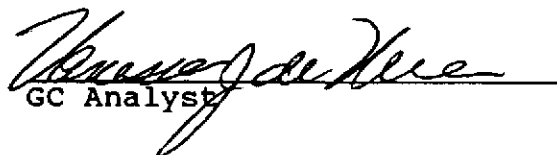
Client: RSI
Sample ID: Method Blank #2
BTCE LAB NO: 922841-MB2

Date Analyzed: 11/13/92
Analyst: VDV
Sample Matrix: Liquid

METHOD BLANK ANALYSIS
EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.3
Toluene	BQL	1	0.3
Ethylbenzene	BQL	1	0.3
Xylenes	BQL	1	0.9

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

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Client: RSI
Sample ID: Method Blank #2
BTCE LAB NO: 922841-MB2

Date Analyzed: 11/13/92
Analyst: VDV
Sample Matrix: Liquid

METHOD BLANK ANALYSIS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
TPH as Gasoline	BQL	1	0.5

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

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Client: RSI
Sample ID: Method Blank #3
BTCE LAB NO: 922841-MB3
Date Received: 11/18/92
Date Sampled: 11/18/92

Date Analyzed: 11/16/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

METHOD BLANK ANALYSIS
EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.3
Toluene	BQL	1	0.3
Ethylbenzene	BQL	1	0.3
Xylenes	BQL	1	0.9

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

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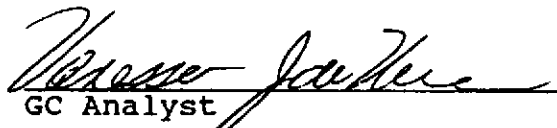
Client: RSI
Sample ID: Method Blank #3
BTCE LAB NO: 922841-MB3

Date Analyzed: 11/16/92
Analyst: VDV
Sample Matrix: Liquid

METHOD BLANK ANALYSIS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
TPH as Gasoline	BQL	1	0.5

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst


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Client: RSI
Sample ID: Method Blank #4
BTCE LAB NO: 922841-MB4
Date Received: 11/18/92
Date Sampled: 11/18/92
Date Analyzed: 11/17/92
Analyst: VDV
Sample Matrix: Liquid
Date Extracted: N/A

METHOD BLANK ANALYSIS
EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.3
Toluene	BQL	1	0.3
Ethylbenzene	BQL	1	0.3
Xylenes	BQL	1	0.9

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

BTC Environmental, Incorporated
1536 Eastman Avenue, Suite B
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Client: RSI
Sample ID: Method Blank #4
BTCE LAB NO: 922841-MB4

Date Analyzed: 11/17/92
Analyst: VDV
Sample Matrix: Liquid

METHOD BLANK ANALYSIS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
TPH as Gasoline	BQL	1	0.5

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit


GC Analyst

