desert petroleum inc.

John Rutherford
Director
Environmental Affairs

April 19, 1995

Ms. Jennifer Eberle
County of Alameda
Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Quarterly Report of March 12, 1995
4035 Park Blvd, Oakland, CA

Dear Ms. Eberle:

Enclosed is the Groundwater Monitoring Report for the recent sampling of groundwater monitoring at the subject property.

Any questions regarding this report should be directed to our project manager Mr. Rick Pilat at Remediation Services Int'l., 805-644-5892.

Very truly yours,

John Rutherford

JR:js

cc: R. Pilat
SWRCB
Chron
File

Enclosure

RSI
REMEDIATION SERVICE, INT'L.
2060 KNOLL DRIVE, SUITE 200, VENTURA, CALIFORNIA 93003
(805) 644-5892 • FAX (805) 654-0720

QUARTERLY REPORT
OF
MARCH 12, 1995
GROUNDWATER SAMPLING AND
WATER QUALITY MONITORING

4035 Park Blvd.
Oakland, California

Prepared for:
DESERT PETROLEUM
P.O. Box 1601
Oxnard, CA 93032
(805) 644-6784

Prepared by:
RSI - REMEDIATION SERVICE, INT'L
2060 Knoll Drive, Suite 200
Ventura, CA 93003
(805) 644-5892

Michael E. Mulhern
E.G. #1507
Exp. 10/31/96

Richard W. Pilat
RSI Program Director

March 31, 1995

TABLE OF CONTENTS

1.0 INTRODUCTION

This report presents the results of groundwater monitoring for the real property located at 4035 Park Boulevard, Oakland, Alameda County, California (Figure 1). Remediation Service, Int'l. (RSI) is under contract to provide environmental services.

The property was previously operated as a retail fuel station under the name of J & M Service Station. In November, 1989, the Alameda County Department of Environmental Health (ACDEH) gave notice that gasoline was leaking into a sewer near the station on Brighton Avenue (Figure 2). Pressure tests revealed a leak in the unleaded supply line. In December, 1989 the fuel tanks were emptied, the station was closed and an Unauthorized Release Report was filed. The fuel tanks and associated product lines were removed in June, 1994.

2.0 SITE DESCRIPTION

The subject property is located at the intersection of Park Boulevard and Hampel Road (Figure 2). One station building, three steel underground fuel storage tanks, one steel waste oil tank and two pump islands were present on the site. All four tanks and associated fuel lines were removed in June, 1994 (Western Geo-Engineers, Waste Oil and Fuel UST and Product Line Removal Sample Report, July 23, 1994). Three groundwater monitoring wells and one vapor extraction well have been installed on-site (Figure 3), and one groundwater monitoring well, RS-7, was installed in the street below and approximately 200 feet northwest of the subject property (Figure 2).

The site is situated on the flank of a hill which slopes approximately 10 degrees to the west. The surface of the property is fairly level (Figure 3). Based on the U.S. Geologic Survey topographical map (East Oakland Quadrangle), the surface elevation of the station is approximately 240 feet above mean sea level (MSL). There is an approximate 12 foot drop from the surface of the property at the far western corner to the ground surface below.

3.0 GROUNDWATER MONITORING

3.1 Groundwater Monitoring Procedures

On March 12, 1995, groundwater monitoring wells RS-1, RS-5, RS-6 and RS-7 and vapor extraction well RS-2 were monitored and sampled. The wells were first measured for depth to water and checked for the presence of free product.

The wells were measured to an accuracy of 0.01 feet. The measuring point for each well was the top of the well casing on the north side. Free product was not found in any of the wells. The wells were then purged until dry or a minimum of three well volumes had been removed. Purging was accomplished using a PVC bailer and a Grundfos Rediflo pump. The pump, hose and bailer were decontaminated between each well using TSP and a standard 3-bucket wash method. The purged water was monitored for temperature, conductivity and pH. These measurements, along with all other pertinent data, were recorded on Water Sample Logs (Appendix A). The purged water was placed in 55 gallon DOT approved drums which were sealed and labeled as pending laboratory analysis.

Once the well parameters had stabilized and each well had recharged to a minimum of 80 percent of its initial water level (or a two hour time period had lapsed), the wells were sampled using disposable polyethylene bailers. The samples were sealed, labeled and placed on blue ice for transportation under standard Chain of Custody to Onsite Environmental, a state certified laboratory in Fremont, California. All samples were analyzed for total petroleum hydrocarbons as gasoline (TPH) and benzene, toluene, ethyl-benzene and total xylenes (BTEX) using standard EPA Methodology. The laboratory report and chain of custody are included as Appendix B.

3.2 Groundwater Monitoring Results

On March 12, 1995, the groundwater elevation beneath the site ranged between 213.11 and 223.49 feet above MSL (Table 1). The original survey datum from May, 1994 for each of the wells on-site had changed slightly due to construction in July, 1994; therefore the groundwater gradient was not calculated. The overall groundwater flow direction was determined to be towards the northwest (Figure 5).

Analytical results for the samples collected during the current and previous monitoring episodes are summarized on Table 2 and the current results are shown graphically on Figure 4. The laboratory report and Chain-of-Custody documents are included in Appendix B. Since the last quarterly groundwater monitoring, hydrocarbon concentrations have decreased significantly in wells RS-1, RS-2, RS-6 and RS-7, and have increased in well RS-5.

4.0 LIMITATIONS

The discussion, conclusion and any recommendations presented in this report are based on the professional performance of the personnel who conducted the investigations, the observations of the field personnel, the results of laboratory analyses performed by a state certified laboratory, any referenced documents and our understanding of the regulations of the State of California and any other applicable local regulations.

Variations in the soil and groundwater conditions may exist beyond the points explored in this and previous investigations.

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 groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET

DOTTED LINES REPRESENT 5-FOOT CONTOURS

NATIONAL GEODETIC VERTICAL DATUM OF 1929

DEPTH CURVES IN FEET—DATUM IS MEAN LOWER LOW WATER

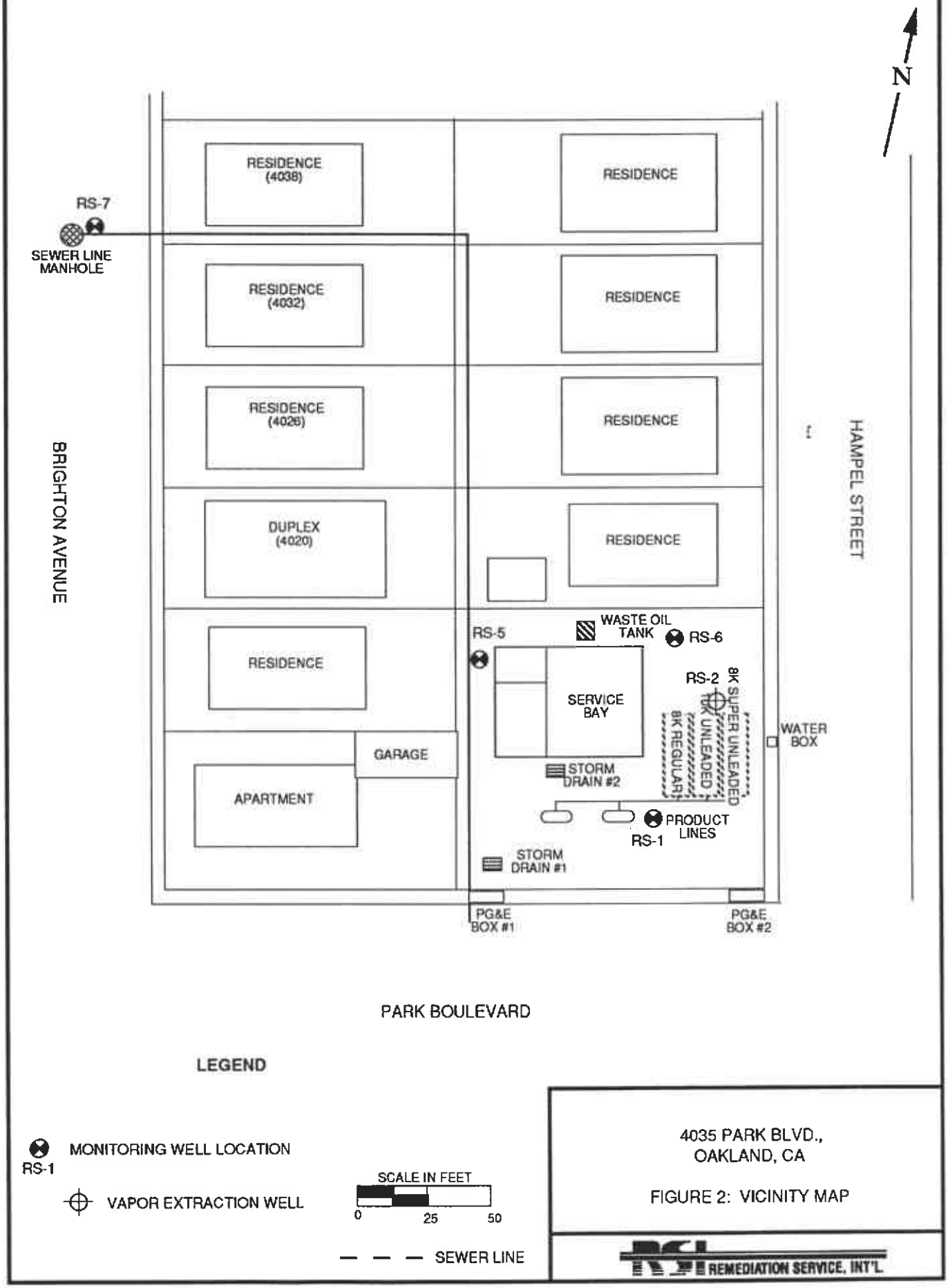
FROM U.S.G.S. 7.5' TOPOGRAPHIC QUADRANGLE "OAKLAND EAST, CALIFORNIA," 1959, PHOTOREVISED 1980.

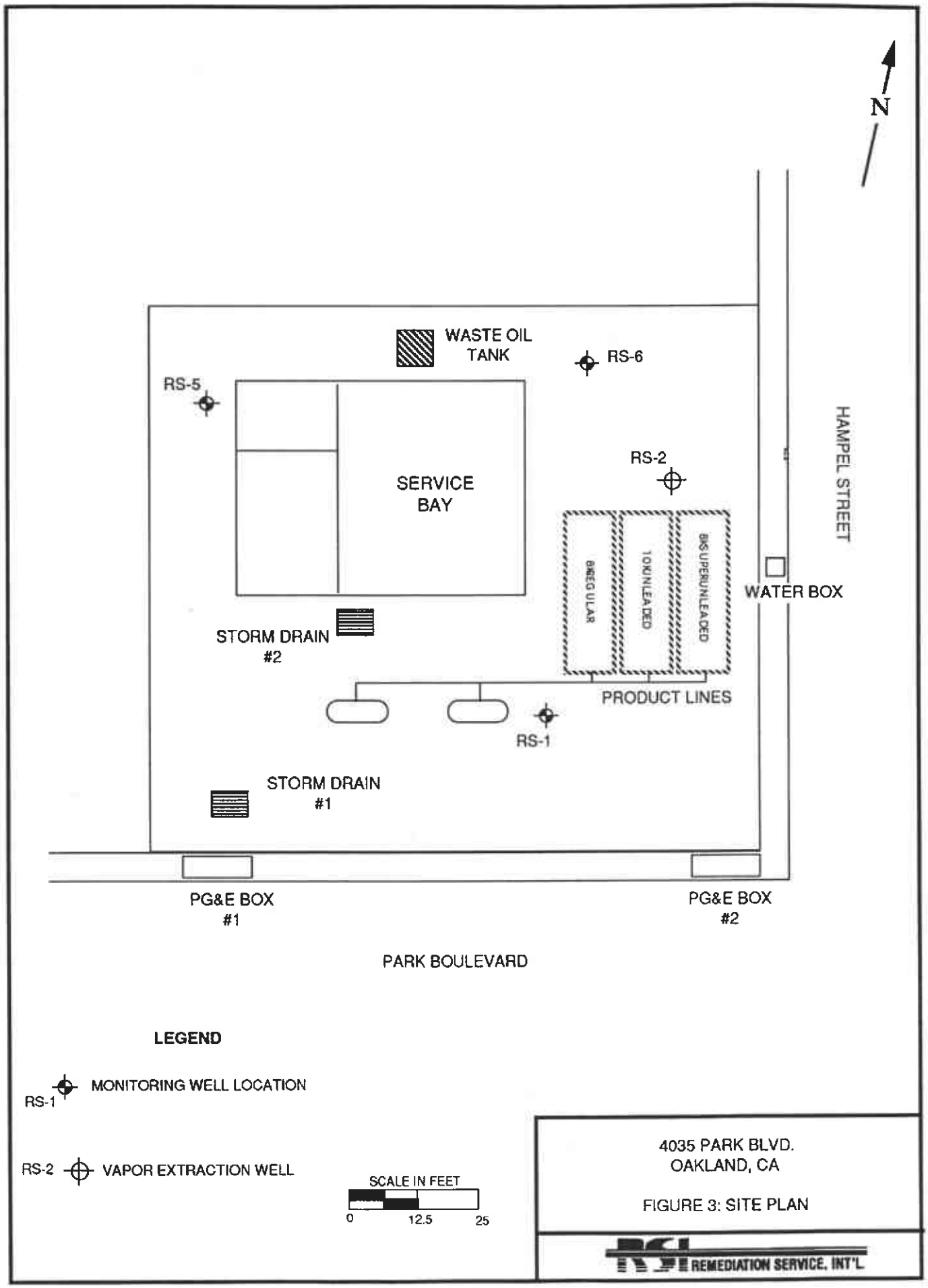
N

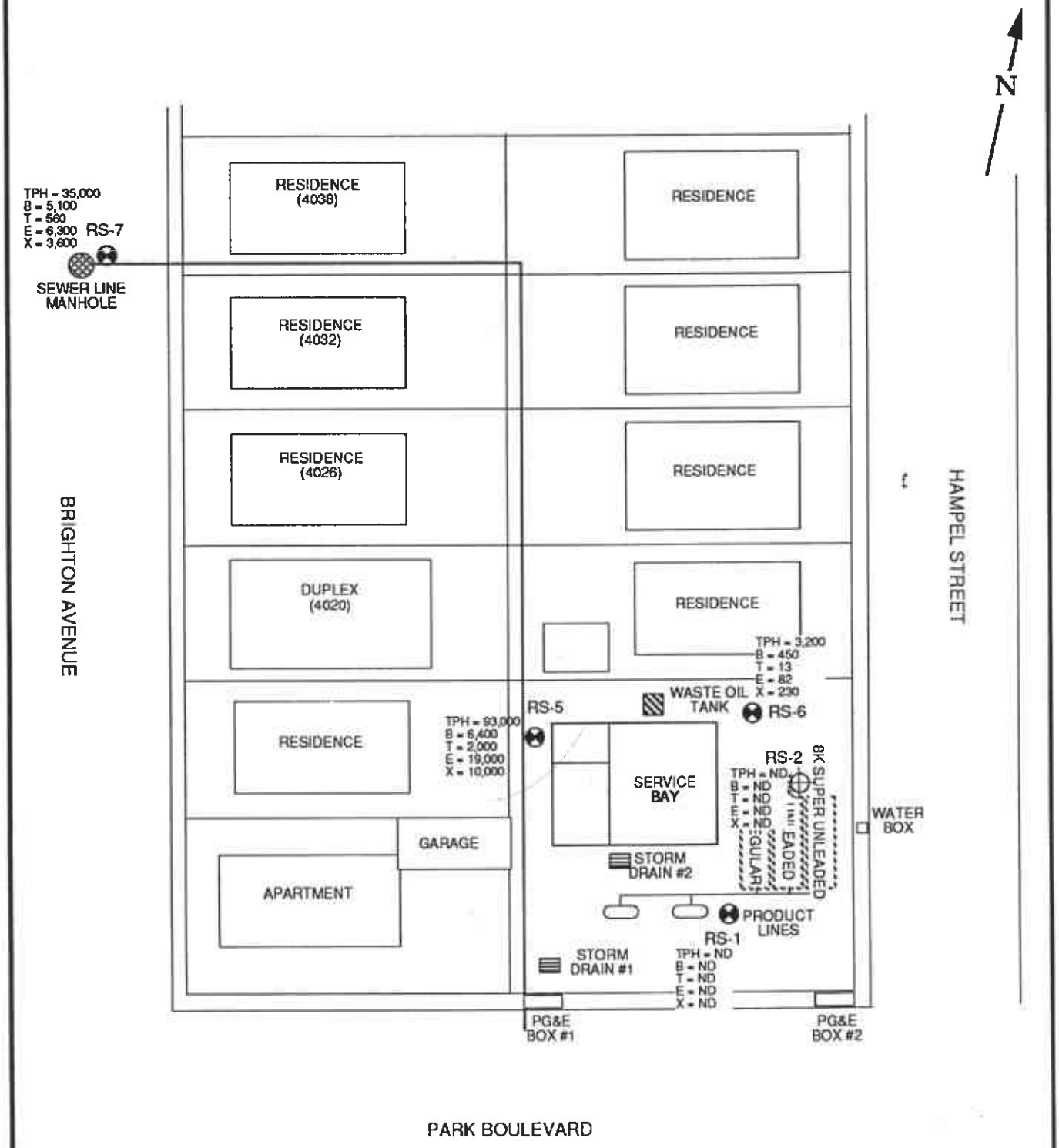
4035 PARK BLVD.,
OAKLAND, CA

FIGURE 1: LOCATION MAP

RSI REMEDIATION SERVICE, INT'L.


N
RESIDENCE (4038)
RESIDENCE
RS-7
SEWER LINE MANHOLE
RESIDENCE (4032)
RESIDENCE
RESIDENCE (4026)
RESIDENCE
BRIGHTON AVENUE
DUPLEX (4020)
RESIDENCE
HAMPEL STREET
RESIDENCE
RS-5
WASTE OIL TANK
RS-6
SERVICE BAY
RS-2
8K SUPER UNLEADED
10K UNLEADED
8K REGULAR
WATER BOX
GARAGE
STORM DRAIN #2
APARTMENT
PRODUCT LINES
RS-1
STORM DRAIN #1
PG&E BOX #1
PG&E BOX #2
PARK BOULEVARD
LEGEND
MONITORING WELL LOCATION
RS-1
VAPOR EXTRACTION WELL
SCALE IN FEET
0
25
50
SEWER LINE
4035 PARK BLVD., OAKLAND, CA
FIGURE 2: VICINITY MAP
REMEDIATION SERVICE, INT'L.


N
WASTE OIL TANK
RS-6
RS-5
SERVICE BAY
RS-2
HAMPEL STREET
8KS UPERUNLEADED
10KUNLEADED
8KREGULAR
WATER BOX
STORM DRAIN #2
PRODUCT LINES
RS-1
STORM DRAIN #1
PG&E BOX #1
PG&E BOX #2
PARK BOULEVARD
LEGEND
RS-1 MONITORING WELL LOCATION
RS-2 VAPOR EXTRACTION WELL
SCALE IN FEET
0
12.5
25
4035 PARK BLVD.
OAKLAND, CA
FIGURE 3: SITE PLAN
REMEDIATION SERVICE, INT'L



LEGEND

RS-1
TPH = 1400
B = 150
T = 12
E = 52
X = 87
GROUNDWATER MONITORING WELL LOCATION WITH GROUNDWATER ANALYTICAL RESULTS IN µg/L.

VAPOR EXTRACTION WELL

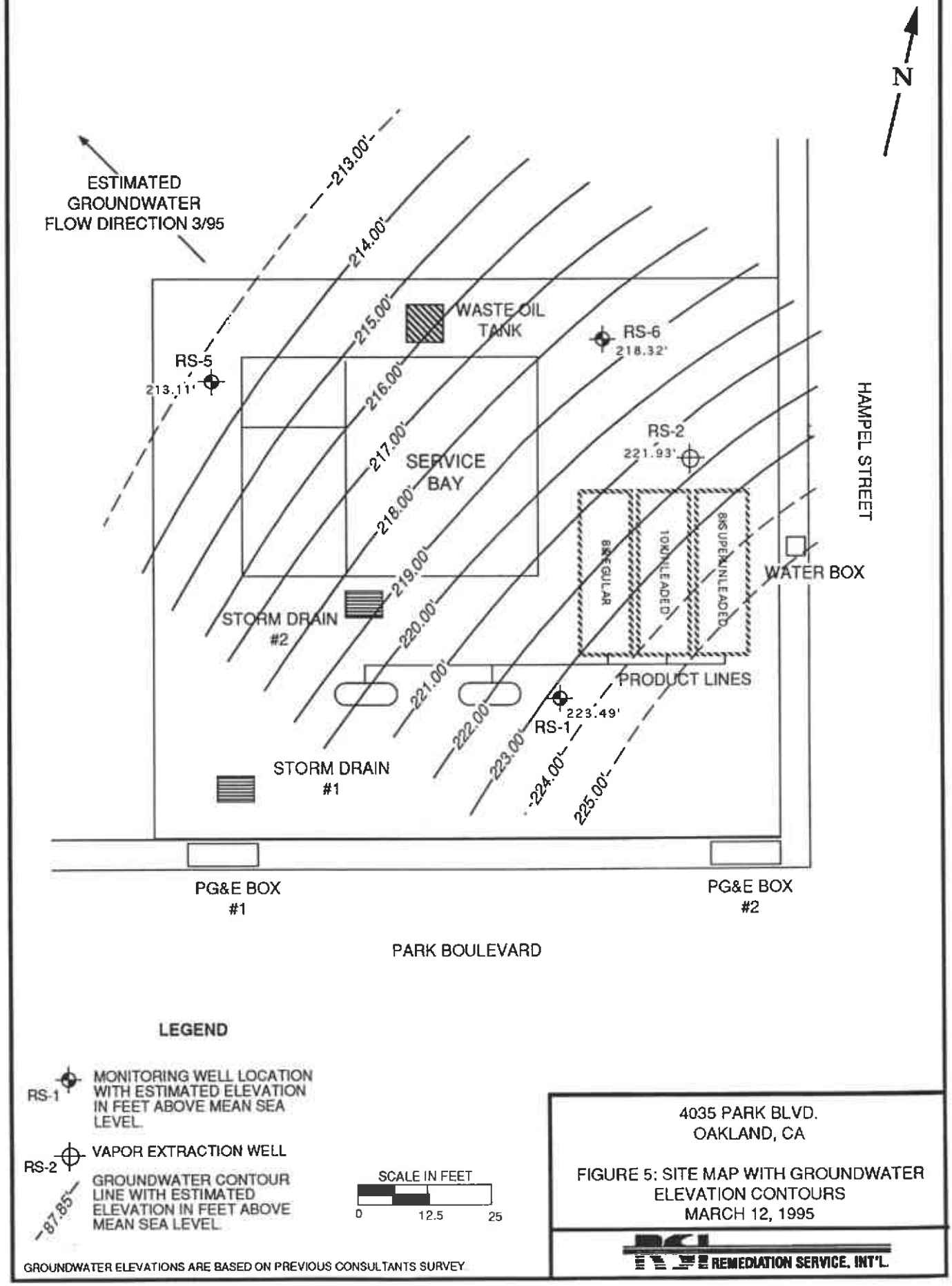
SCALE IN FEET
0 25 50

— — — SEWER LINE

4035 PARK BLVD.
OAKLAND, CA

FIGURE 4: VICINITY MAP
WITH GROUNDWATER ANALYTICAL RESULTS
MARCH 12, 1995

REMEDIATION SERVICE, INT'L



LEGEND

RS-1 — MONITORING WELL LOCATION WITH ESTIMATED ELEVATION IN FEET ABOVE MEAN SEA LEVEL.

RS-2 — VAPOR EXTRACTION WELL

87.85 — GROUNDWATER CONTOUR LINE WITH ESTIMATED ELEVATION IN FEET ABOVE MEAN SEA LEVEL.

SCALE IN FEET

0 12.5 25

GROUNDWATER ELEVATIONS ARE BASED ON PREVIOUS CONSULTANTS SURVEY.

4035 PARK BLVD.
OAKLAND, CA

FIGURE 5: SITE MAP WITH GROUNDWATER ELEVATION CONTOURS
MARCH 12, 1995

REMEDIATION SERVICE, INT'L.

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
4035 PARK BLVD.
OAKLAND, CA

Measurements are in feet.

Well	Date Measured	Depth to Water	Well Head Elevation*	Water Table Elevation*	Change in Elevation
RS-1	11/9/92	17.05	100.18	83.13	
	4/7/94	13.00		87.18	4.05
	6/19/94	13.37	228.15	214.78	—
	9/17/94	16.33		211.82	-2.96
	3/12/95	4.66		223.49 ↑	11.67
RS-2	6/19/94	10.89	227.19	216.30	—
	3/12/95	5.26		221.93 ↑	5.63
RS-5	11/9/92	20.73	98.99	78.26	
	4/7/94	18.16		80.83	2.57
	6/19/94	18.11	227.65	209.54	—
	9/17/94	19.63		208.02	-1.52
	3/12/95	14.54		213.11 ↑	5.09
RS-6	11/9/92	19.43	99.27	79.84	
	4/7/94	14.42		84.85	5.01
	7/18/94	14.45	227.22	212.77	—
	9/17/94	19.52		207.70	-5.07
	3/12/95	8.90		218.32 ↑	10.62
RS-7	11/9/92	4.62	67.88**	63.26	
	4/7/94	4.03		63.85	0.59
	6/19/94	4.07	195.92	191.85	—
	9/17/94	4.05		191.87	0.02
	3/12/95	3.72		192.20 ↑	0.33

*Elevation in feet above Mean Sea Level.
**RS-7 elevation from survey, RESNA Groundwater Monitoring Report 2/92.
11/92 to 4/94 surveyed elevation for wells RS-1, RS-5, and RS-6 based on RESNA survey datum for well RS-1.

Wells RS-1, RS-2, RS-5, and RS-6 elevations were resurveyed in May, 1994 to City of Oakland Benchmark #2814, 1927 NGVD survey datum. Elevation avo Benchmark elevation = 250.53'

TABLE 2
SUMMARY OF GROUND WATER ANALYTICAL RESULTS
4035 PARK BLVD.
OAKLAND, CA

Measurements are in µg/L (parts per billion)

WELL #	DATE SAMPLED	TPH (as gasoline)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES
RS-1	12/89	19,000	2,600	2,700	200	1,200
	12/90	15,000	3,500	330	170	760
	2/91	6,900	910	200	39	540
	6/91	1,600	56	180	12	26
	9/91	4,100	730	7.6	5.1	24
	12/91	8,300	950	160	71	190
	11/92	1,700	730	9.6	16	14
	4/94	860	84	12	16	110
	6/94	1,400	150	12	52	87
	9/94	310	30	1.8	2.8	3.9
	[redacted]	ND ↓	ND ↓	ND	ND	ND
RS-2	6/94	140	9.2	34	4.3	24
	[redacted]	ND ↓	ND ↓	ND	ND	ND
RS-5	12/89	57,000	3,100	4,300	670	3,400
	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	50,000	650	4,800	1,100	15,000
	4/94	27,000	5,000	8,700	550	2,800
	6/94	20,000	2,100	5,300	470	2,500
	9/94	9,300	230	340	110	700
	[redacted]	83,000 ↑	6,400 ↑	2,000	19,000	10,000
RS-6	12/89	11,000	1,400	1,700	160	860
	2/91	Not sampled due to presence of free product				
	6/91	95,000	4,200	4,200	650	3,700
	9/91	Not sampled due to presence of free product				
	12/91	64,000	3,700	2,300	730	4,100
	11/92	19,000	1,600	710	500	1,600
	4/94	16,000	1,200	1,300	290	1,100
	7/94	23,000	1,300	2,200	590	2,200
	9/94	24,000	630	790	250	1,100
	[redacted]	3,200 ↓	450 ↓	13	82	230
RS-7	7/90	5,600,000	24,000	210,000	50,000	740,000
	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	270,000	11,000	22,000	2,000	13,000
	11/92	81,000	12,000	16,000	1,900	13,000
	4/94	74,000	16,000	16,000	1,400	8,500
	6/94	83,000	22,000	19,000	1,500	9,500
	9/94	270,000	13,000	15,000	2,100	1,100
	[redacted]	35,000 ↓	5,100 ↓	560	6,300	3,600

Atkins Env. Help Lab
Onsite Env. Labs

Note:
TPH analyzed by EPA Method 8015M
BTEX analyzed by EPA Method 8020

REMEDIATION SERVICE, INT'L.

APPENDIX A

WATER SAMPLE LOGS

WATER SAMPLE LOG

DATE: 3/12/95

PROJECT LOCATION: 4035 Park Blvd., Oakland, CA

WELL NUMBER: RS-1

WEATHER CONDITIONS: Clear, sunny, warm

FIELD OBSERVATIONS: Bailed well until dry.

TOTAL DEPTH OF WELL: 21.85 feet
CASING DIAMETER: 4 inches
DEPTH TO FREE PRODUCT: NONE
ONE WELL VOLUME = 21.04 gallons
DEPTH TO WATER: 4.66 feet
PURGING METHOD: PVC Bailer
DEPTHS MEASURED FROM: Top of well casing, north side.

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments
6:01	2	6.35	62.2	1.61	Clear, no odor
6:04	5	6.38	62.1	1.64	Clear, no odor
6:10	10	6.38	59.9	1.63	Clear, no odor
6:16	15	7.01	59.8	1.63	Clear, no odor
6:20	20	7.05	59.9	1.62	Clear, no odor
6:25	26	6.95	59.9	1.63	Clear, no odor
	Dry				

TOTAL DISCHARGE: 26 gallons
WELL VOLUMES REMOVED: 1.2

TIME SAMPLE COLLECTED: 9:00 AM
DEPTH TO WATER AT TIME OF SAMPLE: 16.33 feet
PERCENT RECHARGE: 32
METHOD OF SAMPLE COLLECTION: Disposable Bailer
APPEARANCE OF SAMPLE: Clear, no odor present
AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 x 40 ML VOA's
SAMPLE TRANSPORTED TO: On-Site Laboratories, Freemont

SAMPLED BY: R. Pilat

REMEDIATION SERVICE, INT'L.
2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
(805) 644-5892 • FAX (805) 654-0720

WATER SAMPLE LOG

DATE: 3/12/95

PROJECT LOCATION: 4035 Park Blvd., Oakland, CA

WELL NUMBER: RS-2

WEATHER CONDITIONS: Clear, sunny, warm

FIELD OBSERVATIONS: Bailed well until dry.

TOTAL DEPTH OF WELL: 18.80 feet
CASING DIAMETER: 4 inches
DEPTH TO FREE PRODUCT: NONE
ONE WELL VOLUME = 16.57 gallons
DEPTH TO WATER: 5.26 feet
PURGING METHOD: PVC Bailer
DEPTHS MEASURED FROM: Top of well casing, north side.

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments
8:37	5	6.70	63.3		Clear, no odor
8:40	10	6.67	63.0		Clear, no odor
8:45	21	6.71	62.0		Clear, no odor
	Dry				

TOTAL DISCHARGE: 21 gallons
WELL VOLUMES REMOVED: 1.3

TIME SAMPLE COLLECTED: 11:00 AM
DEPTH TO WATER AT TIME OF SAMPLE: 8.19 feet
PERCENT RECHARGE: 78
METHOD OF SAMPLE COLLECTION: Disposable Bailer
APPEARANCE OF SAMPLE: Clear, no odor present
AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 x 40 ML VOA's
SAMPLE TRANSPORTED TO: On-Site Laboratories, Freemont

SAMPLED BY: R. Pilat

RCI
REMEDIATION SERVICE, INT'L.
2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
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WATER SAMPLE LOG

DATE: 3/12/95

PROJECT LOCATION: 4035 Park Blvd., Oakland, CA

WELL NUMBER: RS-5

WEATHER CONDITIONS: Clear, sunny, warm

FIELD OBSERVATIONS: No cement around well box.

TOTAL DEPTH OF WELL: 39.40 feet
CASING DIAMETER: 4 inches
DEPTH TO FREE PRODUCT: NONE
ONE WELL VOLUME = 30.43 gallons
DEPTH TO WATER: 14.54 feet
PURGING METHOD: Rediflo pump
DEPTHS MEASURED FROM: Top of well casing, north side.

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments
11:50	10	6.81	62.8	1.63	Clear, strong organic odor
11:54	20	6.83	62.7	1.64	Clear, strong organic odor
11:59	30	6.90	62.5	1.64	Clear, strong organic odor
12:03	40	6.85	61.9	1.64	Clear, strong organic odor
12:07	50	6.88	61.1	1.64	Clear, strong organic odor
12:10	60	6.85	59.8	1.64	Clear, strong organic odor
12:14	70	6.85	59.7	1.64	Clear, strong organic odor
12:18	80	6.89	59.7	1.64	Clear, strong organic odor
12:25	95	6.89	59.7	1.64	Clear, strong organic odor

TOTAL DISCHARGE: 95 gallons
WELL VOLUMES REMOVED: 3.1

TIME SAMPLE COLLECTED: 3:00 PM
DEPTH TO WATER AT TIME OF SAMPLE: 14.77 feet
PERCENT RECHARGE: 99
METHOD OF SAMPLE COLLECTION: Disposable Bailer
APPEARANCE OF SAMPLE: Clear, product odor present
AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 x 40 ML VOA's
SAMPLE TRANSPORTED TO: On-Site Laboratories, Freemont

SAMPLED BY: R. Pilat

REMEDIATION SERVICE, INT'L.
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(805) 644-5892 • FAX (805) 654-0720

WATER SAMPLE LOG

DATE: 3/12/95

PROJECT LOCATION: 4035 Park Blvd., Oakland, CA

WELL NUMBER: RS-6

WEATHER CONDITIONS: Clear, sunny, warm

FIELD OBSERVATIONS: Purged well until dry.

TOTAL DEPTH OF WELL: 34.05 feet

CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: NONE

ONE WELL VOLUME = 30.78 gallons

DEPTH TO WATER: 8.90 feet

PURGING METHOD: Rediflo pump

DEPTHS MEASURED FROM: Top of well casing, north side.

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments
10:13	2	7.01	61.1	1.67	Clear, slight organic odor
10:16	5	7.03	61.1	1.64	Clear, slight organic odor
10:21	10	7.07	62.1	1.61	Clear, slight organic odor
10:30	20	7.06	62.3	1.63	Clear, slight organic odor
10:42	30	7.07	59.9	1.64	Clear, slight organic odor
10:45	33	7.07	59.8	1.64	Clear, slight organic odor
	Dry				

TOTAL DISCHARGE: 33 gallons

WELL VOLUMES REMOVED: 1.1

TIME SAMPLE COLLECTED: 1:30 PM

DEPTH TO WATER AT TIME OF SAMPLE: 10.89 feet

PERCENT RECHARGE: 92

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPLE: Clear, no odor present

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 x 40 ML VOA's

SAMPLE TRANSPORTED TO: On-Site Laboratories, Freemont

SAMPLED BY: R. Pilat

REMEDIATION SERVICE, INT'L.
2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
(805) 644-5892 • FAX (805) 654-0720

WATER SAMPLE LOG

DATE: 3/12/95

PROJECT LOCATION: 4035 Park Blvd., Oakland, CA

WELL NUMBER: RS-7

WEATHER CONDITIONS: Clear, sunny

FIELD OBSERVATIONS:

TOTAL DEPTH OF WELL: 7.16 feet CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: NONE ONE WELL VOLUME = 4.21 gallons

DEPTH TO WATER: 3.72 feet PURGING METHOD: PVC Bailer

DEPTHS MEASURED FROM: Top of well casing, north side.

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (µmhos/cm)	Comments
3:12	2	7.13	69.9	1.66	Clear, strong organic odor
3:15	5	7.20	69.0	1.63	Clear, strong organic odor
3:21	10	7.30	68.8	1.60	Clear, strong sewer odor
3:25	13	7.41	67.8	1.61	Clear, strong sewer odor

TOTAL DISCHARGE: 13 gallons WELL VOLUMES REMOVED: 3.1

TIME SAMPLE COLLECTED: 5:00 PM

DEPTH TO WATER AT TIME OF SAMPLE: 4.16 feet PERCENT RECHARGE: 87

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPLE: Clear, sewer odor.

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 3 x 40 ML VOA's

SAMPLE TRANSPORTED TO: On-Site Laboratories, Freemont

SAMPLED BY: R. Pilat

REMEDIATION SERVICE, INT'L.
2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
(805) 644-5892 • FAX (805) 654-0720

APPENDIX B

LABORATORY REPORTS
AND
CHAIN OF CUSTODY

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.
[redacted]

Analytical Laboratory Report

EPA Methods 8015 Modified / 8020

Date Sampled: 12-Mar-95
Date Received: 14-Mar-95
Date Analyzed: 24-Mar-95
Date Reported: 25-Mar-95
Report Number: 1B068A.RPT
Lab Number: 1B068A.RPT

Proj Mg: Rick Pilat
Client: RSI
Project: Desert Petroluem
Project#: DP#793
Matrix: Water
Unit: ug/L
COC #:

Lab ID No.	Field ID No.	Benzene	Toluene	Ethyl-benzene	Xylene total	TPH-Gasoline	Surrogate %	BTEX DLX	TPHg DLX
1B068A-09	RS-1	ND	ND	ND	ND	ND	82	1	1
-10	RS-2	ND	ND	ND	ND	ND	79	1	1
-11	RS-6	450	82	13	230	3200	98	5	1
-12	RS-5	6400	19000	2000	10000	93000	NC	10	10
-13	RS-7	5100	6300	560	3600	35000	NC	5	5
Detection Limits:		0.5	0.5	0.5	0.5	50			

NR - Not requested
COC - Chain of custody
ND - Analytes not detected at, or above the stated detection limit.
DLX - Dilution Factor.
TPHg - Total petroleum hydrocarbons as gasoline.
NC - Not Calculated
ug/L - Micrograms per liter (ppb)

PROCEDURES:
BTEX - This analysis was performed using EPA Method 8020, and EPA Method 5030 .
TPHg - This analysis was performed using EPA Method 8015 Mod. and EPA method 5030.

CERTIFICATION:
California Department of Health Services ELAP Certificate #2010
Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538 (510) 490-8571

James Coates
Laboratory Director

4/3/95
Date

Atkins Environmental

HELP LABS

2889 Bunsen Ave, Suite A Ventura, CA 93003

805-644-1044 Fax 805-644-0236

On-Site
Fremont, CA
(510) 490-8571

Chain of Custody Record
Analytical Services Request

CLIENT NAME	ADDRESS	TELEPHONE/FAX NUMBER	METHOD OF SHIPMENT/SHIPPING DOCUMENT #
DESERT PET		RSI 805-644-5392	ICE / COOLER

PROJECT NAME/LOCATION	CLIENT PROJECT NO.	REQUESTED TURNAROUND TIME	HELP LABS QUOTE #	HELP LABS PROJECT #
DP 793 PARK BL. OAK		24 HOURS:_____ 10 DAY:_____ 5 DAY:_____		

PROJECT MANAGER	SAMPLER (S)	P.O. NO.
PILAT	PILAT	

SAMPLE IDENTIFICATION NO.	LAB NUMBER	DATE SAMPLED	TIME SAMPLED	CONTAINER #/TYPE	GRAB	COMPOSITE	SOIL	H_2O	OTHER	524.2	624	8260	TPHg/MS	8015	5020				REMARKS
RS-1		3/12/95	9:00	3 x VOA										X	X				
RS-2		↓	11:00	↓										↓	↓				
RS-6			1:30																
RS-5			3:00																
RS-7			5:00																

CONDITION OF SAMPLE:	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
TEMPERATURE UPON RECEIPT:				
SEALS INTACT: YES / NO	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
SAMPLE DISPOSAL:	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME

SEND INVOICE TO:

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