SITE INVESTIGATION REPORT
Goodyear Tire Center
Albany, California

Carrie Austin (Treadwell & Rollo Proj mgr.)
925/253-2681

Ropers, Majeski, Kohn & Bentley
San Francisco, California

16 July 1998
Project 1522.03

Treadwell&Rollo
Environmental and Geotechnical Consultants

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Goodyear Tire Center
Albany, California

1.0 INTRODUCTION

The Goodyear Tire Center in Albany is located at the intersection of San Pablo Avenue and Brighton Avenue (Figure 1). Treadwell & Rollo (T&R) conducted a site investigation to further evaluate soil and groundwater conditions at the site in general accordance with the First Round Sampling program in the Work Plan dated 27 April 1998.

1.1 Scope of Work

The T&R scope of work included: 1) collection of soil and groundwater samples for laboratory analysis, 2) evaluation of the laboratory analytical results, 3) compilation and presentation of previously-available results for work performed by others, and 4) documenting the results in a technical report. The investigation included drilling and sampling of five borings (TR-1 through TR-5) and sampling of two wells (MW-1 and MW-3). From the borings and wells, nine soil samples and five groundwater samples were analyzed by a certified analytical laboratory.

1.2 Technical Limitations

This investigation has inherent limitations. For example, the distribution of chemical concentrations in the soil and groundwater can vary spatially and over time. The chemical analysis results, valid as of the time of collection, are based on data collected at the sample locations only.

2.0 FIELD INVESTIGATION AND ANALYTICAL RESULTS

Field work was conducted on 8, 14 and 15 June 1998. The sample locations and results are described in this section, and illustrated on Figures 2 through 6. The groundwater elevations and

sample results are presented on Tables 1 through 3. The boring logs and laboratory analytical reports are included in Appendices A and B, respectively.

2.1 Sample Rationale

Two boring locations were chosen within the maintenance bay, TR-1 between the former waste oil tank and hoist 6 (H-6), and TR-2 near hoists H-4 and H-5. Grab groundwater samples and soil samples were obtained from TR-1 and TR-2. Behind the building (north side), a shallow soil boring (TR-3) was located to evaluate shallow soil conditions below the outdoor storage area. As indicated in Table 1, the direction of groundwater flow at this site has historically been to the north and northwest. North of existing monitoring well MW-3, a soil boring (TR-4) was located to evaluate downgradient soil and groundwater conditions near the northern property boundary. A soil boring (TR-5) was located to evaluate soil and groundwater conditions upgradient of the former waste oil tank.

The samples were analyzed for selected constituents based on previous detections of affected soil at nearby sample locations and on our understanding of Goodyear operations. The analytical parameters for the laboratory testing program included total petroleum hydrocarbons as diesel (TPH-Diesel) by EPA Method 8015M; Oil and Grease (O&G) by Standard Method 5520F; gasoline (TPH-Gasoline) by EPA Method 8015M; Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) by EPA Method 8020; methyl tert-butyl ether (MTBE) by EPA Method 8020; Volatile Organic Compounds (VOCs) including fuel oxygenates by EPA Method 8260; and Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270.

2.2 Field Methods and Results

Prior to drilling, a drilling permit was obtained from the Alameda County Public Works Agency. T&R personnel coordinated the subsurface utility clearance of the proposed boring locations with C.U. Surveys and notified Underground Services Alert prior to drilling activities.

Borings TR-1, TR-2, TR-4 and TR-5 were advanced on 14 June 1998 to depths between approximately 12 and 16 feet below ground surface (bgs) using a direct-push rig operated by Gregg Drilling & Testing, Inc. of Martinez, California. Boring TR-3 was advanced using a hand auger to a depth of 1.5 feet. Soil samples were collected in 4-foot long sections of plastic tubing. The cores were examined visually and described in boring logs. Six-inch long tube segments were selected for laboratory analysis. The tube ends were capped with Teflon™ sheeting and plastic end caps. The soil encountered during drilling consisted of clay and sandy clay with some grey discoloration and odor. Organic vapor measurements ranged from approximately 3 to 64 parts per million in borings TR-1, TR-2 and TR-5 at depths ranging from approximately 7 to 12 feet bgs.

Three-quarter inch-diameter, Schedule 40 PVC well casing with a 10-foot long screen with 0.01-inch wide slots was positioned at the bottom of the direct push borings to assist in retrieving grab groundwater samples. Groundwater was not observed to have entered the borings during drilling on 14 June 1998. A PVC cap was placed on the PVC casing, and traffic cones were placed over the borings overnight. On 15 June 1998, T&R collected groundwater samples from TR-2, TR-4 and TR-5. Groundwater samples were collected with a clean disposable plastic bailer and transferred to laboratory-provided containers. Additionally, one trip blank was prepared on 15 June 1998 and sent to the laboratory. Groundwater was not detected in boring TR-1; consequently no groundwater sample was collected from that boring. Also, on 15 June 1998, T&R collected a soil sample from TR-3 at a depth of 1.5 feet using a manual slide hammer. The borings were grouted on 15 June 1998 by Gregg Drilling.

On 8 June 1998 T&R measured depth to groundwater at wells MW-1, MW-2 and MW-3. As indicated in Table 1, the depth to groundwater ranged from approximately 5 to 8 feet bgs. The measurements confirmed that groundwater flows to the northwest, consistent with historical results. Existing monitoring wells MW-1 and MW-3 were purged of at least three casing volumes on 14 June 1998. Measurements of water quality parameters (temperature, pH and

conductivity) were made periodically during purging, and the parameter results were stable prior to sample collection. Groundwater samples were collected with a clean disposable bailer and placed into laboratory-provided sample containers.

Each soil and groundwater sample was labeled promptly after collection and placed in a chilled cooler. The samples were transported via courier to K Prime, Inc., a California State-certified analytical laboratory in Santa Rosa, California under chain-of -custody procedures.

2.3 Laboratory Results - June 1998 Soil and Groundwater Samples

TPH-Diesel, O&G and TPH-Gasoline were detected in soil samples (Table 2 and Figure 3). TPH-Diesel was detected in samples TR-1 at 11.5 feet bgs (TR-1-11.5), TR-2-7.5, and TR-4-8.5 at 151, 311 and 74.2 milligrams per kilogram (mg/kg), respectively. O&G was detected in samples TR-1-11.5, TR-2-4.5 and TR-5-8.5 at 55.4, 73.5 and 690 mg/kg respectively. TPH-Gasoline was detected in sample TR-2-7.5 at 4.9 mg/kg. BTEX, MTBE and SVOCs were not detected in soil samples. Concentration contours showing the estimated extent of TPH-Diesel and O&G in soil using current and previously-available results are presented on Figures 5 and 6. These contours are based on results of soil samples collected between 5 and 10 feet bgs, which corresponds to the general range of reported groundwater elevations for this and previous onsite studies.

Except for toluene, no chemical compounds were detected in the five groundwater samples (Table 3). Toluene was detected in sample TR-2, but since toluene was also detected in the trip blank at a higher concentration, this result is most likely not representative of groundwater conditions.

3.0 CONCLUSIONS

TPH-Diesel, O&G, and TPH-Gasoline are present in soil below and downgradient of Goodyear operations at depths corresponding to the groundwater level. These contaminants were not detected in soil samples collected upgradient of Goodyear operations at boring TR-5 indicating that the sources of contamination are in areas of Goodyear operations. Based on the direction of groundwater flow and the presence of TPH-Diesel and O&G near the northern property boundary at groundwater level, it appears that these contaminants extend off site in the downgradient direction (Figures 5 and 6). Several residences, commercial properties, and Cerrito Creek are downgradient of the site (Figure 1).

In accordance with our scope of work, T&R's investigation focused on portions of the site in the vicinity of the former waste oil tank and a portion of the hoist area. Other potential sources of contamination were not investigated as part of the current program, including other Goodyear hoist locations, the Goodyear tire wash, and underground utilities associated with the Goodyear building.

Rim

In the past (1993-1995) No TPH/BTEX in well MW-3 except for ~1ppm TOG - which should not be a problem

4.0 REFERENCES

Certified Environmental Consulting, Inc. (CEC), 1993, UST Site Remediation Report, 11 October.

OHM Remediation Services Corporation, 1994, *Draft Preliminary Site Assessment Report*, 7 October.

OHM Remediation Services Corporation, 1995, *Results of Quarterly Groundwater Monitoring Program, Fourth Quarter 1994*, 11 January.

OHM Remediation Services Corporation, 1995, *Results of Quarterly Groundwater Monitoring Program, First Quarter 1995*, 13 April.

OHM Remediation Services Corporation, 1995, *Results of Quarterly Groundwater Monitoring Program, Second Quarter 1995*, 11 July.

The Thomas Guide, Alameda County, 1993.

Treadwell & Rollo, Inc., 1998, *Work Plan*, 27 April.

TABLES

TABLE 1
GROUNDWATER MEASUREMENTS
Goodyear Tire Center
Albany, California

Depth to Water Measurements, 1998

Well ID	8-Jun-98 [1, 2]	Approximate Screened Interval (feet bgs)
MW-1	4.90	6 - 13
MW-2	5.31	6 - 13
MW-3	8.15	10 - 20

Groundwater Elevations and Flow Directions [1, 3, 4]

Well ID	Measuring Point Elevation (feet)	6-Jun-94	4-Oct-94	22-Nov-94	14-Dec-94	25-Jan-95	2-May-95	8-Jun-98
MW-1	22.10	15.78	14.85	16.35	17.39	18.76	17.06	17.20
MW-2	22.38	15.25	15.18	16.56	17.07	18.02	15.92	17.07
MW-3	22.33	13.58	13.4	14.48	13.73	15.27	15.33	14.18
Flow Direction		NW	NW	NW	NW	N-NW	N	NW

Notes

1) Measuring points are top of PVC casing, measurements in feet.
2) 1998 depth to water measurements by T&R.
3) Groundwater elevations shown in feet above Mean Sea Level, relative to City of Albany benchmark
4) 1994-95 data and measuring point elevation reported by OHM, 1995.

TABLE 2
SOIL ANALYTICAL RESULTS
Goodyear Tire Center
Albany, California

Compound	Method No.	Units	Boring No.	TR-1	TR-1[1]	TR-2	TR-2[1]	TR-3	TR-4	TR-4[2]	TR-5	TR-5
			Depth (feet)	6.5	11.5	4.5	7.5	1.5	6.5	8.5	7.5	9.0
			Sample Date	6/14/98	6/14/98	6/14/98	6/14/98	6/15/98	6/14/98	6/14/98	6/14/98	6/14/98
TPH-Diesel	8015M	mg/kg		<10.0	**151**	<10.0	**311**	<10.0	<10.0	**74.2**	<10.0	<10.0
Oil & Grease	5520F	mg/kg		<50.0	**55.4**	<50.0	**73.5**	<50.0	<50.0	**690**	<50.0	<50.0
TPH-Gasoline	8015M	mg/kg			<1.00		**4.9**	<1.00	<1.00	<1.00		
Benzene	8020	ug/kg			<5.00		<5.00	<5.00	<5.00	<5.00		
Toluene	8020	ug/kg			<5.00		<5.00	<5.00	<5.00	<5.00		
Ethylbenzene	8020	ug/kg			<5.00		<5.00	<5.00	<5.00	<5.00		
Xylenes	8020	ug/kg			<5.00		<5.00	<5.00	<5.00	<5.00		
MTBE	8020	ug/kg			<50.0		<50.0	<50.0	<50.0	<50.0		
SVOCs	8270			ND								

Notes

TPH-Diesel = total petroleum hydrocarbons as diesel
TPH-Gasoline = total petroleum hydrocarbons as gasoline
MTBE = methyl tert-butyl ether
SVOCs = Semi-Volatile Organic Compounds
<0.2 = Not detected at or above the indicated laboratory reporting limit
ND = Not detected at or above the laboratory reporting limits, which vary by compound
BOLD indicates detection above the laboratory reporting limit

[1] The laboratory noted that the GC/FID pattern of diesel detected in samples TR-1-11.5 and TR-2-7.5 was indicative of petroleum products lighter than diesel.
[2] The laboratory noted that the GC/FID pattern of diesel detected in sample TR-4-8.5 was indicative of petroleum products heavier than diesel.

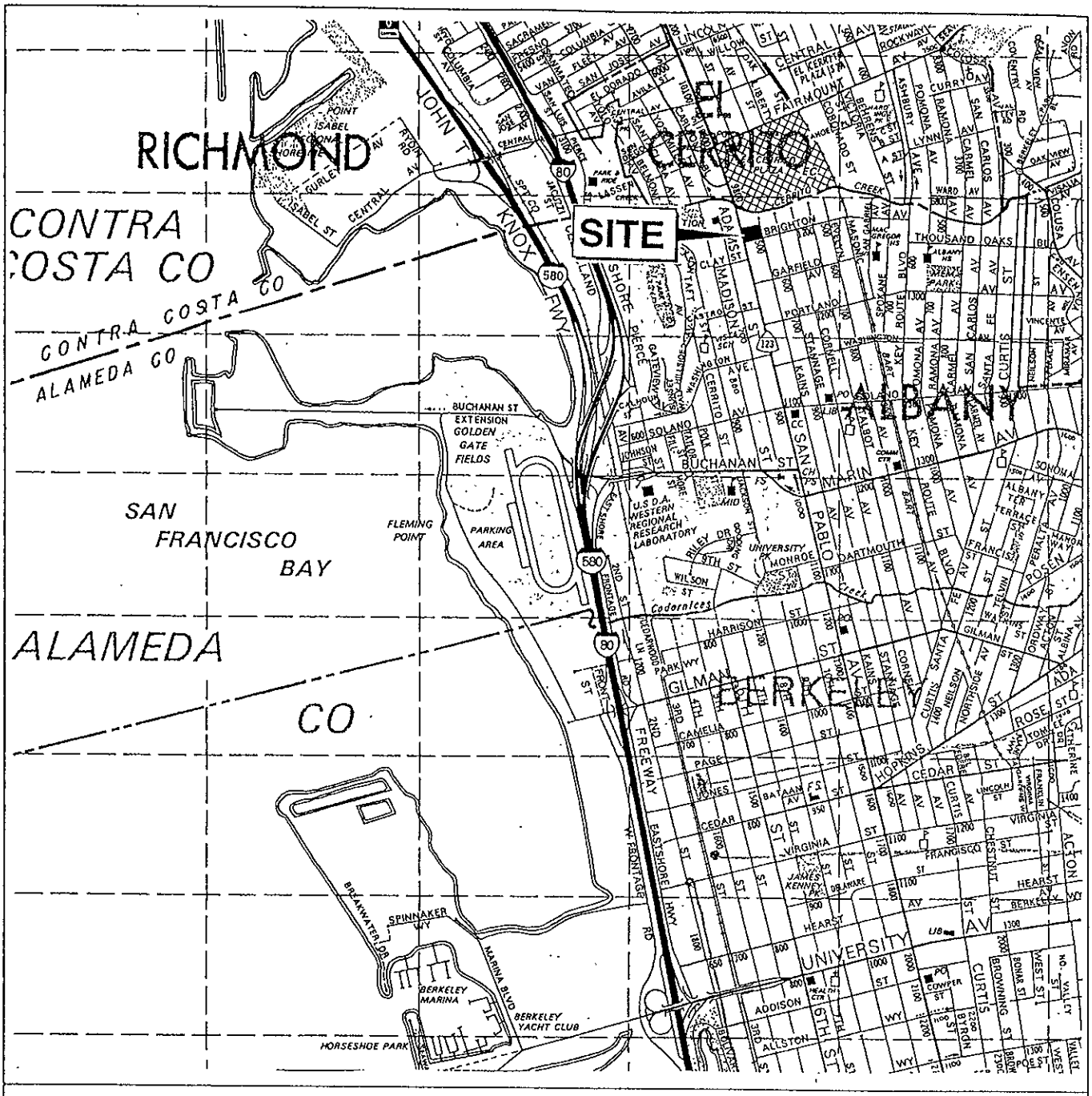
TABLE 3
WATER ANALYTICAL RESULTS
Goodyear Tire Center
Albany, California

Compound	Method No.	Units	Well ID or Boring No. / Sample Date	MW-1 6/14/98	MW-3 6/14/98	TR-2 6/15/98	TR-4 6/15/98	TR-5 6/15/98	TB 6/15/98
TPH-Diesel	8015M	mg/L		<50.0					
Oil & Grease	5520F	mg/L			<0.50				
TPH-Gasoline	8015M	mg/L			<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	8020	ug/L			<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	8020	ug/L			<0.50	**0.72**	<0.50	<0.50	**1.27**
Ethylbenzene	8020	ug/L			<0.50	<0.50	<0.50	<0.50	<0.50
Xylenes	8020	ug/L			<0.50	<0.50	<0.50	<0.50	<0.50
MTBE	8020	ug/L			<5.00	<5.00	<5.00	<5.00	<5.00
VOCs	8260				ND				ND
Toluene		ug/L			<0.50				**1.51**
SVOCs	8270				ND				

Notes

TPH-Diesel = total petroleum hydrocarbons as diesel
TPH-Gasoline = total petroleum hydrocarbons as gasoline
MTBE = methyl tert-butyl ether
VOCs = Volatile Organic Compounds, including fuel oxygenates
SVOCs = Semi-Volatile Organic Compounds
<0.2 = Not detected at or above the indicated laboratory reporting limit
ND = Not detected at or above the laboratory reporting limits, which vary by compound
TB = Trip Blank
BOLD indicates detection above the laboratory reporting limit

FIGURES



Base map: The Thomas Guide
Alameda County
1993

0 2,200 Feet

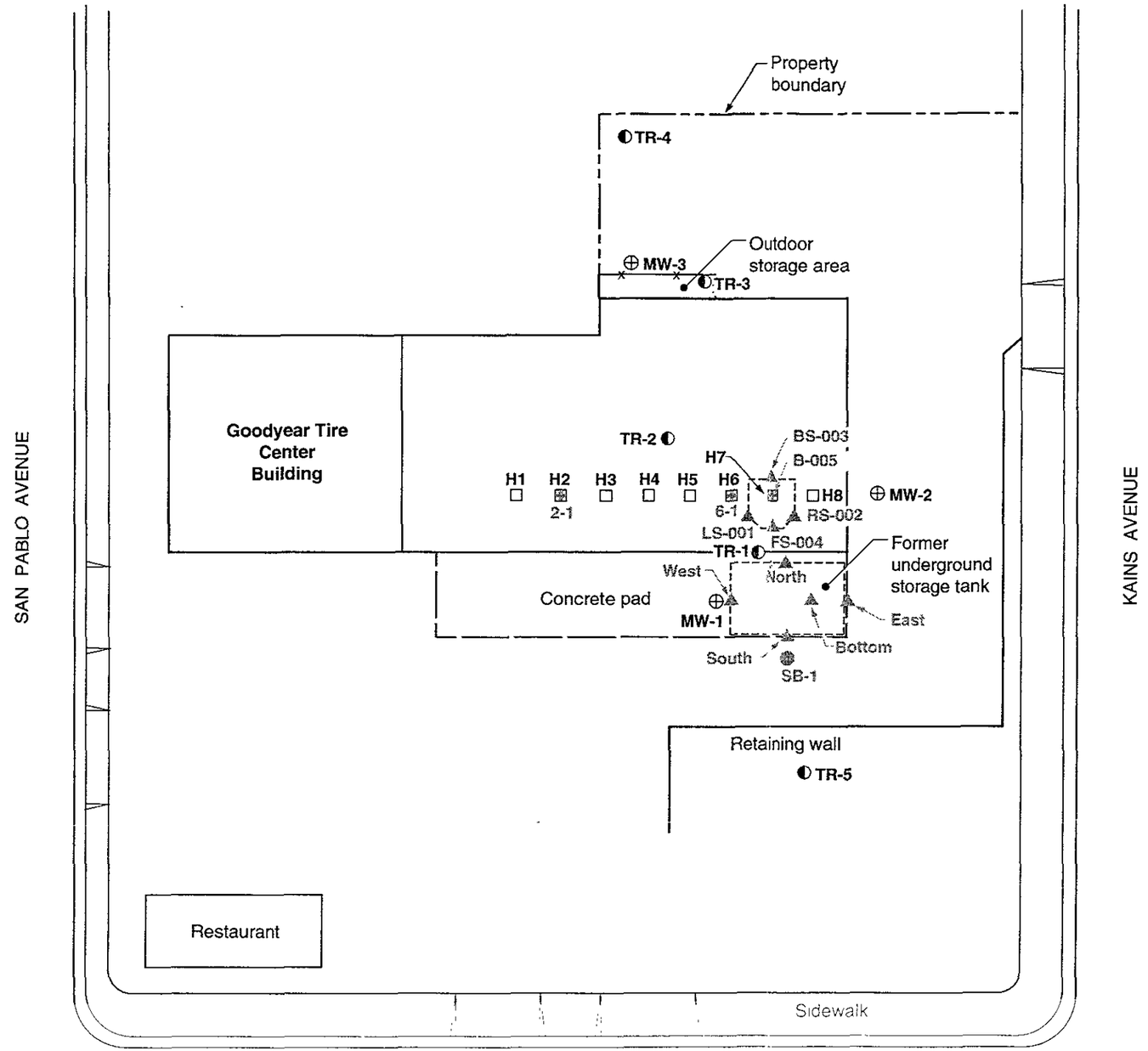
Approximate scale

GOODYEAR TIRE CENTER
431 San Pablo Avenue
Albany, California

Treadwell&Rollo

SITE LOCATION MAP

Project No. 1522.03 | Figure 1



EXPLANATION

- TR-1 ◐ Approximate location of soil boring, June 1998
- MW-1 ⊕ Approximate location of groundwater monitoring well
- H1 □ Hoist
- Approximiate limits of excavation
- ▲ Approximate location of soil sample from underground storage tank removal and hoist overexcavation
- ✣ Soil sample taken from within hoist area
- SB-1 ● Approximate location of soil boring

0 30 Feet

Approximate scale

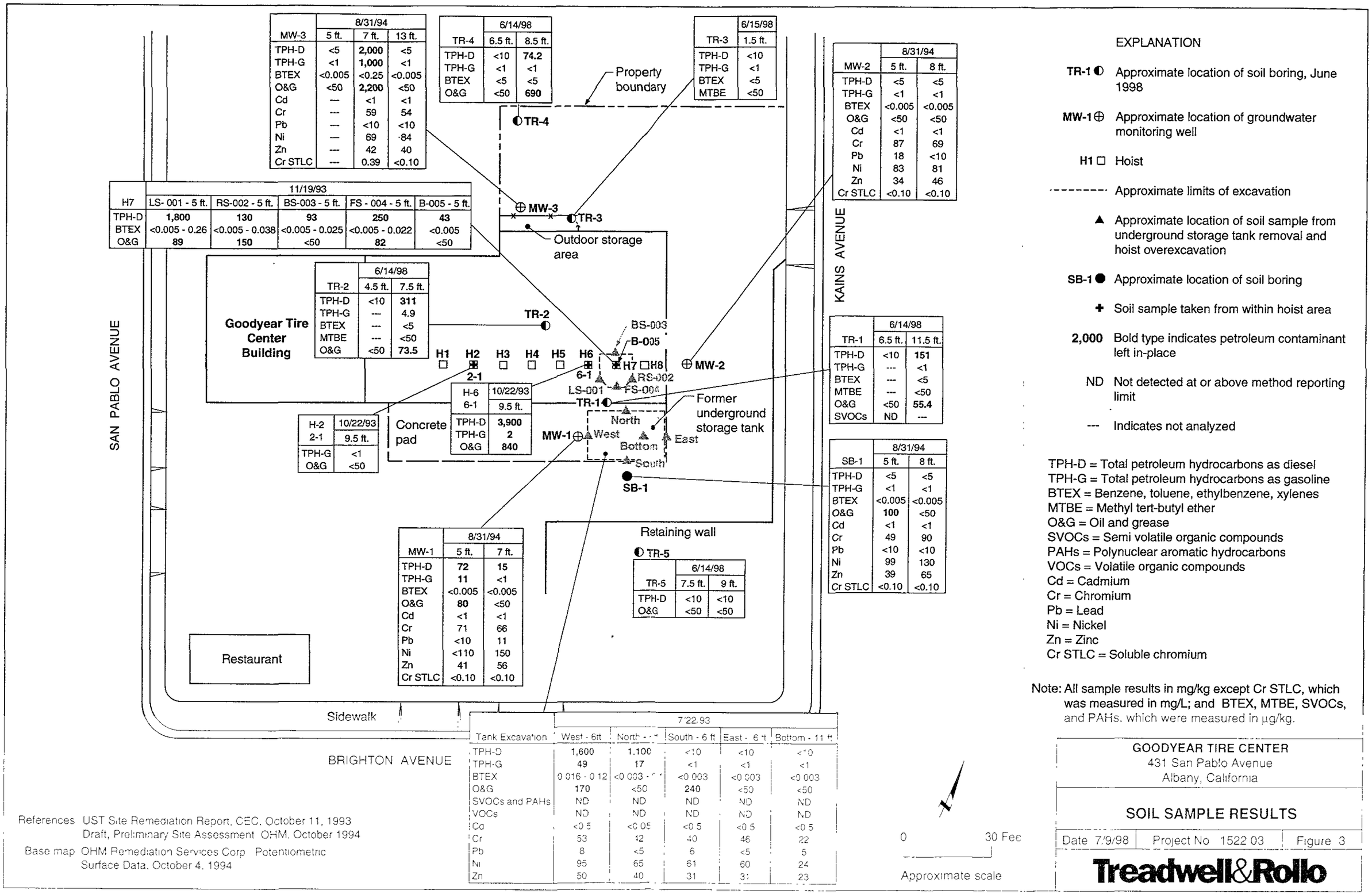
Base map: OHM Remediation Services Corp., Potentiometric Surface Data, October 4, 1994

GOODYEAR TIRE CENTER
431 San Pablo Avenue
Albany, California

SAMPLE LOCATIONS

Date 7/9/98 | Project No 1522 03 | Figure 2

Treadwell&Rollo



MW-3	8/31/94		
	5 ft.	7 ft.	13 ft.
TPH-D	<5	**2,000**	<5
TPH-G	<1	**1,000**	<1
BTEX	<0.005	<0.25	<0.005
O&G	<50	**2,200**	<50
Cd	---	<1	<1
Cr	---	59	54
Pb	---	<10	<10
Ni	---	69	84
Zn	---	42	40
Cr STLC	---	0.39	<0.10

TR-4	6/14/98	
	6.5 ft.	8.5 ft.
TPH-D	<10	**74.2**
TPH-G	<1	<1
BTEX	<5	<5
O&G	<50	**690**

TR-3	6/15/98
	1.5 ft.
TPH-D	<10
TPH-G	<1
BTEX	<5
MTBE	<50

MW-2	8/31/94	
	5 ft.	8 ft.
TPH-D	<5	<5
TPH-G	<1	<1
BTEX	<0.005	<0.005
O&G	<50	<50
Cd	<1	<1
Cr	87	69
Pb	18	<10
Ni	83	81
Zn	34	46
Cr STLC	<0.10	<0.10

H7	11/19/93				
	LS- 001 - 5 ft.	RS-002 - 5 ft.	BS-003 - 5 ft.	FS - 004 - 5 ft.	B-005 - 5 ft.
TPH-D	**1,800**	**130**	**93**	**250**	**43**
BTEX	<0.005 - 0.26	<0.005 - 0.038	<0.005 - 0.025	<0.005 - 0.022	<0.005
O&G	**89**	**150**	<50	**82**	<50

TR-2	6/14/98	
	4.5 ft.	7.5 ft.
TPH-D	<10	**311**
TPH-G	---	4.9
BTEX	---	<5
MTBE	---	<50
O&G	<50	**73.5**

TR-1	6/14/98	
	6.5 ft.	11.5 ft.
TPH-D	<10	**151**
TPH-G	---	<1
BTEX	---	<5
MTBE	---	<50
O&G	<50	**55.4**
SVOCs	ND	---

H-6 6-1	10/22/93
	9.5 ft.
TPH-D	**3,900**
TPH-G	**2**
O&G	**840**

H-2 2-1	10/22/93
	9.5 ft.
TPH-G	<1
O&G	<50

SB-1	8/31/94	
	5 ft.	8 ft.
TPH-D	<5	<5
TPH-G	<1	<1
BTEX	<0.005	<0.005
O&G	**100**	<50
Cd	<1	<1
Cr	49	90
Pb	<10	<10
Ni	99	130
Zn	39	65
Cr STLC	<0.10	<0.10

MW-1	8/31/94	
	5 ft.	7 ft.
TPH-D	**72**	**15**
TPH-G	**11**	<1
BTEX	<0.005	<0.005
O&G	**80**	<50
Cd	<1	<1
Cr	71	66
Pb	<10	11
Ni	<110	150
Zn	41	56
Cr STLC	<0.10	<0.10

TR-5	6/14/98	
	7.5 ft.	9 ft.
TPH-D	<10	<10
O&G	<50	<50

Tank Excavation	7/22/93				
	West - 6ft	North - 11 ft	South - 6 ft	East - 6 ft	Bottom - 11 ft
TPH-D	1,600	1,100	<10	<10	<10
TPH-G	49	17	<1	<1	<1
BTEX	0.016 - 0.12	<0.003 - 0.1	<0.003	<0.003	<0.003
O&G	170	<50	240	<50	<50
SVOCs and PAHs	ND	ND	ND	ND	ND
VOCs	ND	ND	ND	ND	ND
Cd	<0.5	<0.05	<0.5	<0.5	<0.5
Cr	53	42	40	46	22
Pb	8	<5	6	<5	5
Ni	95	65	61	60	24
Zn	50	40	31	31	23

EXPLANATION

- **TR-1** ◐ Approximate location of soil boring, June 1998
- **MW-1** ⊕ Approximate location of groundwater monitoring well
- **H1** □ Hoist
- Approximate limits of excavation
- ▲ Approximate location of soil sample from underground storage tank removal and hoist overexcavation
- **SB-1** ● Approximate location of soil boring
- ✚ Soil sample taken from within hoist area
- **2,000** Bold type indicates petroleum contaminant left in-place
- ND Not detected at or above method reporting limit
- --- Indicates not analyzed

TPH-D = Total petroleum hydrocarbons as diesel
TPH-G = Total petroleum hydrocarbons as gasoline
BTEX = Benzene, toluene, ethylbenzene, xylenes
MTBE = Methyl tert-butyl ether
O&G = Oil and grease
SVOCs = Semi volatile organic compounds
PAHs = Polynuclear aromatic hydrocarbons
VOCs = Volatile organic compounds
Cd = Cadmium
Cr = Chromium
Pb = Lead
Ni = Nickel
Zn = Zinc
Cr STLC = Soluble chromium

Note: All sample results in mg/kg except Cr STLC, which was measured in mg/L; and BTEX, MTBE, SVOCs, and PAHs, which were measured in µg/kg.

References: UST Site Remediation Report, CEC, October 11, 1993
Draft, Preliminary Site Assessment, OHM, October 1994
Base map: OHM Remediation Services Corp, Potentiometric Surface Data, October 4, 1994

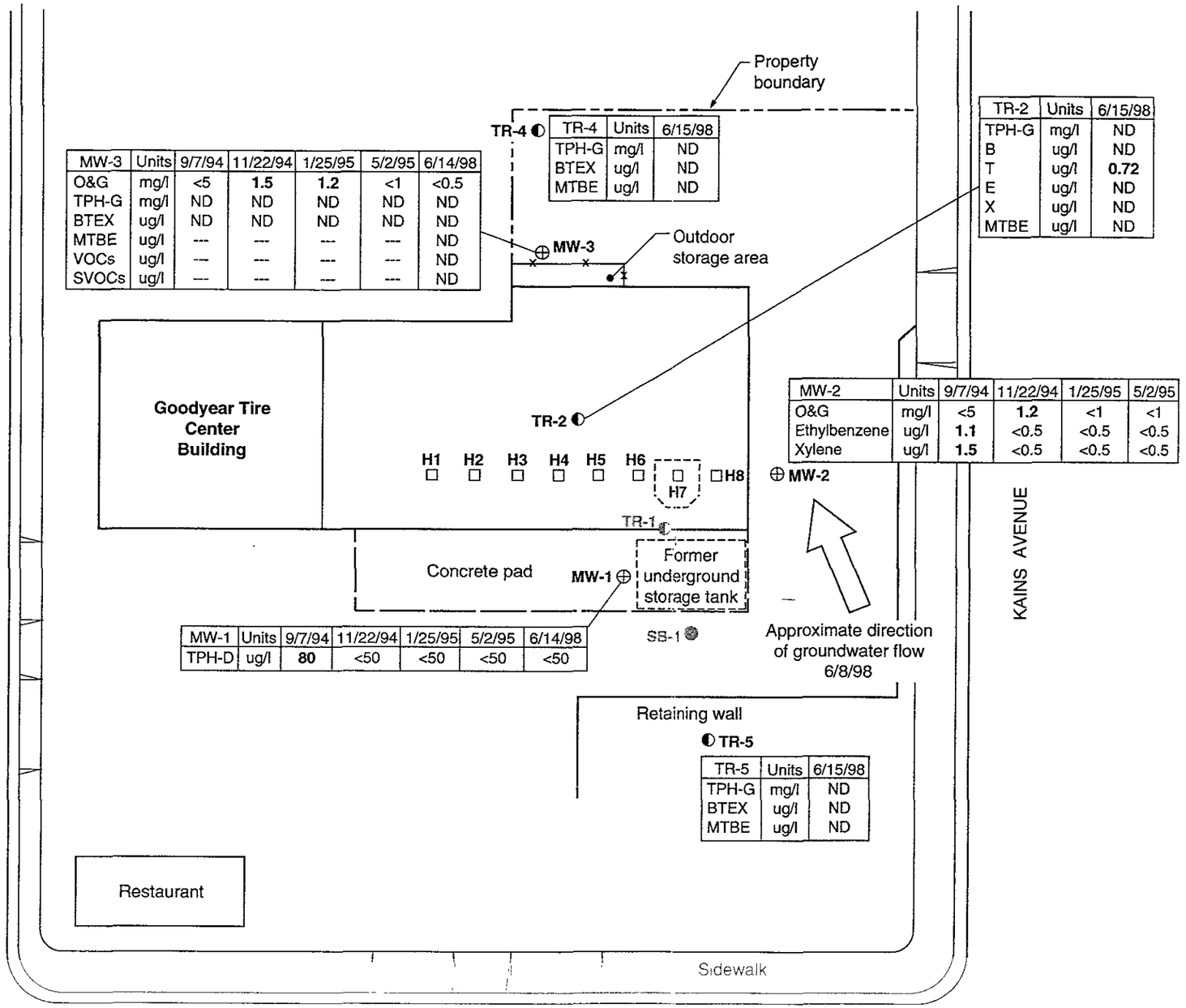
0 30 Feet
Approximate scale

GOODYEAR TIRE CENTER
431 San Pablo Avenue
Albany, California

SOIL SAMPLE RESULTS

Date 7/9/98 | Project No. 1522.03 | Figure 3

Treadwell&Rollo



MW-3	Units	9/7/94	11/22/94	1/25/95	5/2/95	6/14/98
O&G	mg/l	<5	**1.5**	**1.2**	<1	<0.5
TPH-G	mg/l	ND	ND	ND	ND	ND
BTEX	ug/l	ND	ND	ND	ND	ND
MTBE	ug/l	---	---	---	---	ND
VOCs	ug/l	---	---	---	---	ND
SVOCs	ug/l	---	---	---	---	ND

TR-4	Units	6/15/98
TPH-G	mg/l	ND
BTEX	ug/l	ND
MTBE	ug/l	ND

TR-2	Units	6/15/98
TPH-G	mg/l	ND
B	ug/l	ND
T	ug/l	**0.72**
E	ug/l	ND
X	ug/l	ND
MTBE	ug/l	ND

MW-2	Units	9/7/94	11/22/94	1/25/95	5/2/95
O&G	mg/l	<5	**1.2**	<1	<1
Ethylbenzene	ug/l	**1.1**	<0.5	<0.5	<0.5
Xylene	ug/l	**1.5**	<0.5	<0.5	<0.5

MW-1	Units	9/7/94	11/22/94	1/25/95	5/2/95	6/14/98
TPH-D	ug/l	**80**	<50	<50	<50	<50

TR-5	Units	6/15/98
TPH-G	mg/l	ND
BTEX	ug/l	ND
MTBE	ug/l	ND

EXPLANATION

- **TR-2** ◐ Approximate location of grab groundwater sample (no sample taken at TR-1))
- **MW-1** ⊕ Approximate location of groundwater monitoring well
- SB-1 ◉ Approximate location of soil boring (no sample taken)
- - - - - - - - Approximate limits of excavation
- **H1** □ Hoist
- --- Indicates not analyzed
- ND Not detected at or above method reporting limit
- <5 Not detected at or above indicated method reporting limit
- **80** Bold type indicates petroleum contaminant in groundwater

O&G = Oil and grease
TPH-D = Total petroleum hydrocarbons as diesel
TPH-G = Total petroleum hydrocarbons as gasoline
BTEX = Benzene, toluene, ethylbenzene, xylenes
MTBE = Methyl tert-butyl ether
VOCs = Volatile organic compounds
SVOCs = Semi volatile organic compounds

Note: Previously detected organics and June 1998 results presented; refer to OHM reports for complete prior analytical results.

References
Draft, Preliminary Site Assessment, OHM October 1994
Results of Quarterly Groundwater Monitoring Program, Fourth Quarter 1994 OHM, January 11, 1995
Results of Quarterly Groundwater Monitoring Program, First Quarter 1995 OHM April 13, 1995
Results of Quarterly Groundwater Monitoring Program Second Quarter 1995, OHM, July 11, 1995
Base map OHM Remediation Services Corp., Potentiometric Surface Data, October 4, 1994

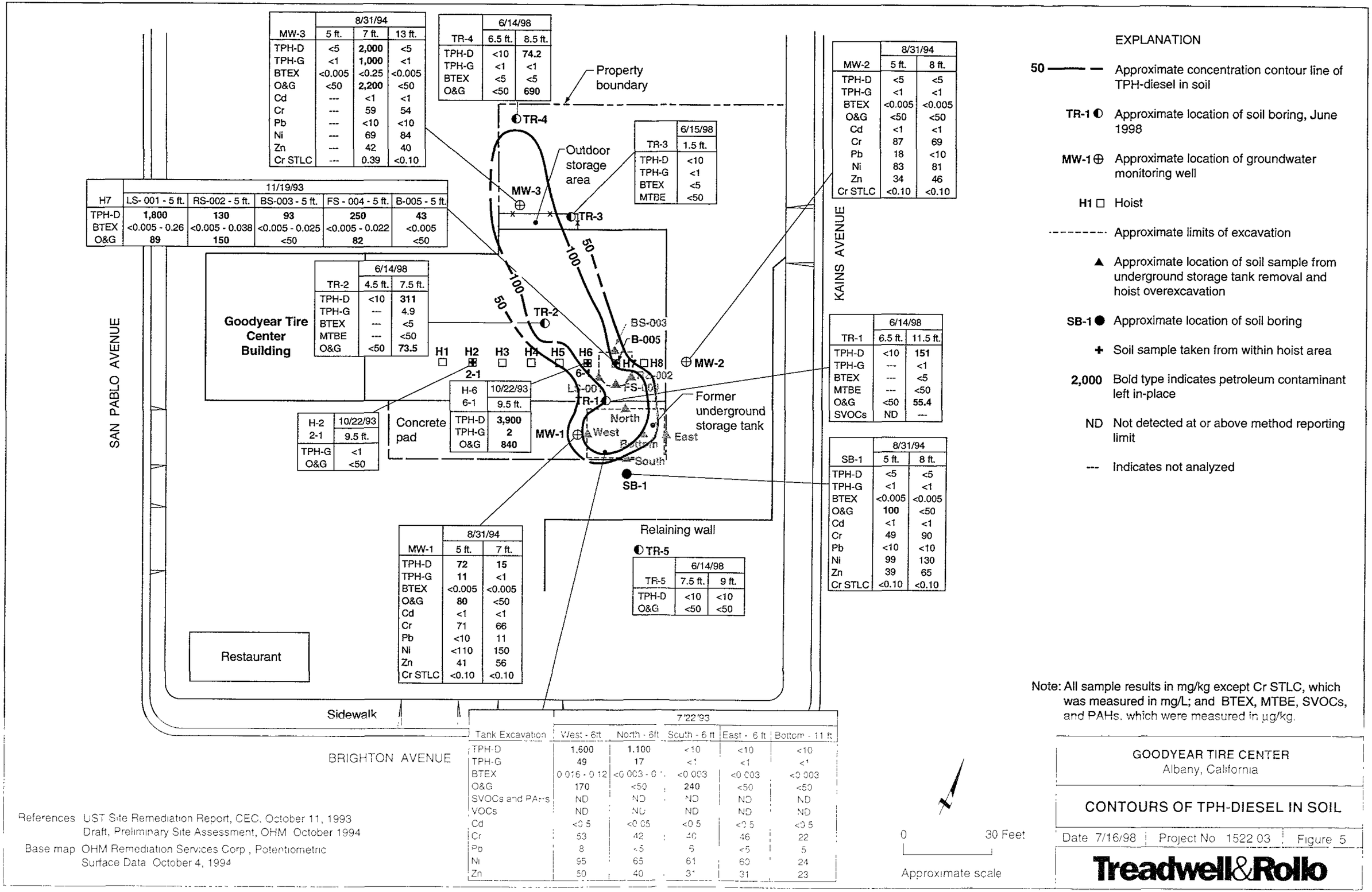
0 30 Feet
Approximate scale

GOODYEAR TIRE CENTER
431 San Pablo Avenue
Albany, California

GROUNDWATER MONITORING RESULTS

Date 7/9/98 | Project No. 1522.03 | Figure 4

Treadwell&Rollo



MW-3	8/31/94		
	5 ft.	7 ft.	13 ft.
TPH-D	<5	**2,000**	<5
TPH-G	<1	**1,000**	<1
BTEX	<0.005	<0.25	<0.005
O&G	<50	**2,200**	<50
Cd	---	<1	<1
Cr	---	59	54
Pb	---	<10	<10
Ni	---	69	84
Zn	---	42	40
Cr STLC	---	0.39	<0.10

TR-4	6/14/98	
	6.5 ft.	8.5 ft.
TPH-D	<10	**74.2**
TPH-G	<1	<1
BTEX	<5	<5
O&G	<50	**690**

TR-3	6/15/98
	1.5 ft.
TPH-D	<10
TPH-G	<1
BTEX	<5
MTBE	<50

MW-2	8/31/94	
	5 ft.	8 ft.
TPH-D	<5	<5
TPH-G	<1	<1
BTEX	<0.005	<0.005
O&G	<50	<50
Cd	<1	<1
Cr	87	69
Pb	18	<10
Ni	83	81
Zn	34	46
Cr STLC	<0.10	<0.10

H7	11/19/93				
	LS- 001 - 5 ft.	RS-002 - 5 ft.	BS-003 - 5 ft.	FS - 004 - 5 ft.	B-005 - 5 ft.
TPH-D	**1,800**	**130**	**93**	**250**	**43**
BTEX	<0.005 - 0.26	<0.005 - 0.038	<0.005 - 0.025	<0.005 - 0.022	<0.005
O&G	**89**	**150**	<50	**82**	<50

TR-2	6/14/98	
	4.5 ft.	7.5 ft.
TPH-D	<10	**311**
TPH-G	---	4.9
BTEX	---	<5
MTBE	---	<50
O&G	<50	**73.5**

TR-1	6/14/98	
	6.5 ft.	11.5 ft.
TPH-D	<10	**151**
TPH-G	---	<1
BTEX	---	<5
MTBE	---	<50
O&G	<50	**55.4**
SVOCs	ND	---

H-6 6-1	10/22/93 9.5 ft.
TPH-D	**3,900**
TPH-G	**2**
O&G	**840**

H-2 2-1	10/22/93 9.5 ft.
TPH-G	<1
O&G	<50

SB-1	8/31/94	
	5 ft.	8 ft.
TPH-D	<5	<5
TPH-G	<1	<1
BTEX	<0.005	<0.005
O&G	**100**	<50
Cd	<1	<1
Cr	49	90
Pb	<10	<10
Ni	99	130
Zn	39	65
Cr STLC	<0.10	<0.10

MW-1	8/31/94	
	5 ft.	7 ft.
TPH-D	**72**	**15**
TPH-G	**11**	<1
BTEX	<0.005	<0.005
O&G	**80**	<50
Cd	<1	<1
Cr	71	66
Pb	<10	11
Ni	<110	150
Zn	41	56
Cr STLC	<0.10	<0.10

TR-5	6/14/98	
	7.5 ft.	9 ft.
TPH-D	<10	<10
O&G	<50	<50

Tank Excavation	7/22/93				
	West - 6ft	North - 6ft	South - 6 ft	East - 6 ft	Bottom - 11 ft
TPH-D	1,600	1,100	<10	<10	<10
TPH-G	49	17	<1	<1	<1
BTEX	0.016 - 0.12	<0.003 - 0.1	<0.003	<0.003	<0.003
O&G	170	<50	240	<50	<50
SVOCs and PAHs	ND	ND	ND	ND	ND
VOCs	ND	ND	ND	ND	ND
Cd	<0.5	<0.05	<0.5	<0.5	<0.5
Cr	53	42	40	46	22
Pb	8	<5	6	<5	5
Ni	95	65	61	60	24
Zn	50	40	31	31	23

EXPLANATION

- 50 ——— Approximate concentration contour line of TPH-diesel in soil
- TR-1 ◐ Approximate location of soil boring, June 1998
- MW-1 ⊕ Approximate location of groundwater monitoring well
- H1 □ Hoist
- -------- Approximate limits of excavation
- ▲ Approximate location of soil sample from underground storage tank removal and hoist overexcavation
- SB-1 ● Approximate location of soil boring
- ✚ Soil sample taken from within hoist area
- **2,000** Bold type indicates petroleum contaminant left in-place
- ND Not detected at or above method reporting limit
- --- Indicates not analyzed

Note: All sample results in mg/kg except Cr STLC, which was measured in mg/L; and BTEX, MTBE, SVOCs, and PAHs, which were measured in µg/kg.

References: UST Site Remediation Report, CEC, October 11, 1993
Draft, Preliminary Site Assessment, OHM October 1994

Base map: OHM Remediation Services Corp , Potentiometric Surface Data October 4, 1994

0 30 Feet

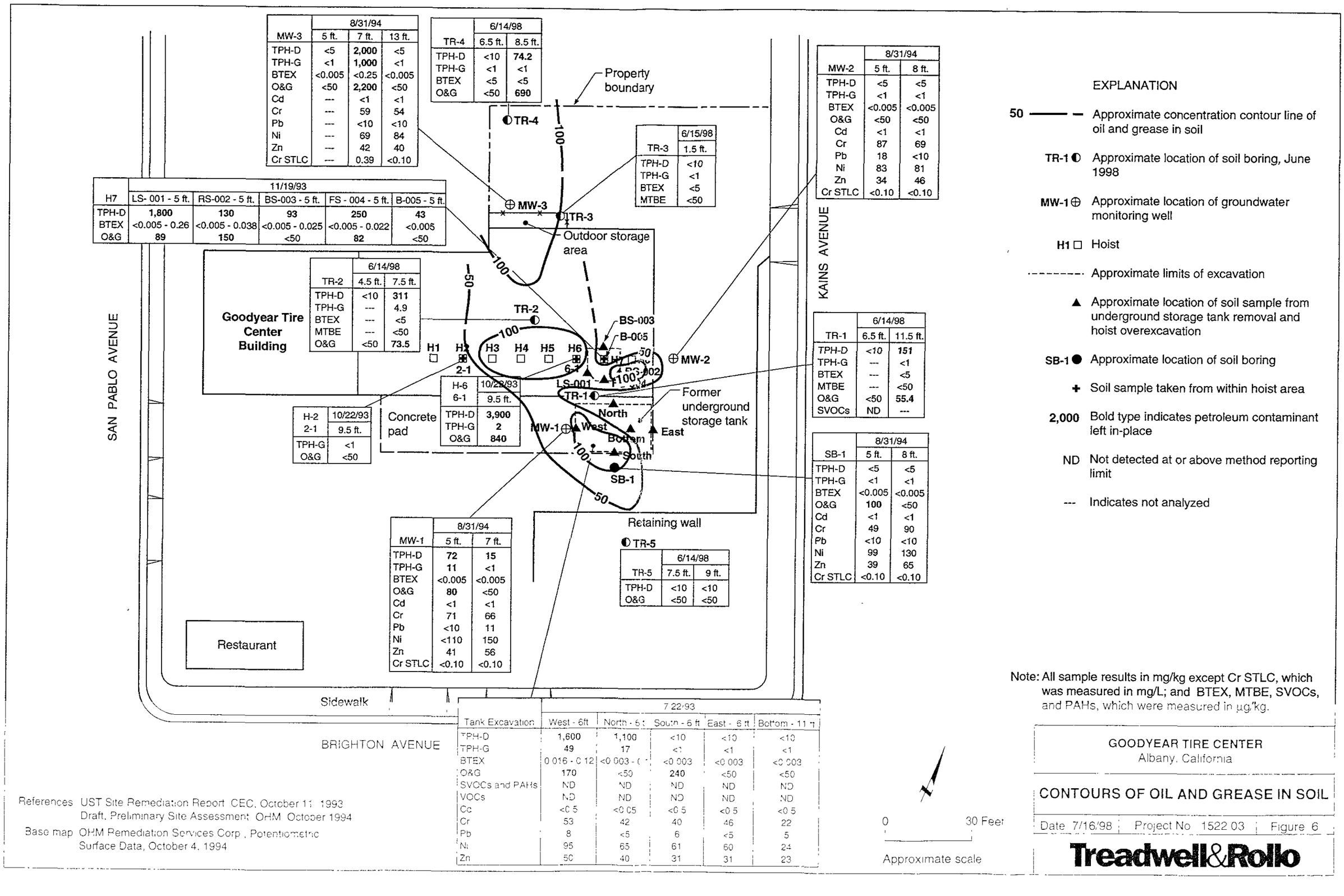
Approximate scale

GOODYEAR TIRE CENTER
Albany, California

CONTOURS OF TPH-DIESEL IN SOIL

Date 7/16/98 | Project No 1522.03 | Figure 5

Treadwell&Rollo



MW-3	8/31/94		
	5 ft.	7 ft.	13 ft.
TPH-D	<5	**2,000**	<5
TPH-G	<1	**1,000**	<1
BTEX	<0.005	<0.25	<0.005
O&G	<50	**2,200**	<50
Cd	---	<1	<1
Cr	---	59	54
Pb	---	<10	<10
Ni	---	69	84
Zn	---	42	40
Cr STLC	---	0.39	<0.10

TR-4	6/14/98	
	6.5 ft.	8.5 ft.
TPH-D	<10	**74.2**
TPH-G	<1	<1
BTEX	<5	<5
O&G	<50	**690**

H7	11/19/93				
	LS- 001 - 5 ft.	RS-002 - 5 ft.	BS-003 - 5 ft.	FS - 004 - 5 ft.	B-005 - 5 ft.
TPH-D	**1,800**	**130**	**93**	**250**	**43**
BTEX	<0.005 - 0.26	<0.005 - 0.038	<0.005 - 0.025	<0.005 - 0.022	<0.005
O&G	**89**	**150**	<50	**82**	<50

TR-3	6/15/98
	1.5 ft.
TPH-D	*<10*
TPH-G	<1
BTEX	<5
MTBE	<50

TR-2	6/14/98	
	4.5 ft.	7.5 ft.
TPH-D	<10	**311**
TPH-G	---	4.9
BTEX	---	<5
MTBE	---	<50
O&G	<50	**73.5**

H-2 2-1	10/22/93
	9.5 ft.
TPH-G	<1
O&G	<50

H-6 6-1	10/29/93
	9.5 ft.
TPH-D	**3,900**
TPH-G	**2**
O&G	**840**

MW-1	8/31/94	
	5 ft.	7 ft.
TPH-D	**72**	**15**
TPH-G	**11**	<1
BTEX	<0.005	<0.005
O&G	**80**	<50
Cd	<1	<1
Cr	71	66
Pb	<10	11
Ni	<110	150
Zn	41	56
Cr STLC	<0.10	<0.10

TR-5	6/14/98	
	7.5 ft.	9 ft.
TPH-D	<10	<10
O&G	<50	<50

MW-2	8/31/94	
	5 ft.	8 ft.
TPH-D	<5	<5
TPH-G	<1	<1
BTEX	<0.005	<0.005
O&G	<50	<50
Cd	<1	<1
Cr	87	69
Pb	18	<10
Ni	83	81
Zn	34	46
Cr STLC	<0.10	<0.10

TR-1	6/14/98	
	6.5 ft.	11.5 ft.
TPH-D	*<10*	***151***
TPH-G	---	<1
BTEX	---	<5
MTBE	---	<50
O&G	<50	**55.4**
SVOCs	ND	---

SB-1	8/31/94	
	5 ft.	8 ft.
TPH-D	<5	<5
TPH-G	<1	<1
BTEX	<0.005	<0.005
O&G	**100**	<50
Cd	<1	<1
Cr	49	90
Pb	<10	<10
Ni	99	130
Zn	39	65
Cr STLC	<0.10	<0.10

Tank Excavation	7/22/93				
	West - 6ft	North - 6 ft	South - 6 ft	East - 6 ft	Bottom - 11 ft
TPH-D	1,600	1,100	<10	<10	<10
TPH-G	49	17	<1	<1	<1
BTEX	0.016 - 0.12	<0.003 - 0.1	<0.003	<0.003	<0.003
O&G	170	<50	240	<50	<50
SVOCs and PAHs	ND	ND	ND	ND	ND
VOCs	ND	ND	ND	ND	ND
Cd	<0.5	<0.05	<0.5	<0.5	<0.5
Cr	53	42	40	46	22
Pb	8	<5	6	<5	5
Ni	95	65	61	60	24
Zn	50	40	31	31	23

EXPLANATION

- **50** ——— Approximate concentration contour line of oil and grease in soil
- **TR-1** ◐ Approximate location of soil boring, June 1998
- **MW-1** ⊕ Approximate location of groundwater monitoring well
- **H1** □ Hoist
- -------- Approximate limits of excavation
- ▲ Approximate location of soil sample from underground storage tank removal and hoist overexcavation
- **SB-1** ● Approximate location of soil boring
- \+ Soil sample taken from within hoist area
- **2,000** Bold type indicates petroleum contaminant left in-place
- ND Not detected at or above method reporting limit
- --- Indicates not analyzed

Note: All sample results in mg/kg except Cr STLC, which was measured in mg/L; and BTEX, MTBE, SVOCs, and PAHs, which were measured in µg/kg.

References: UST Site Remediation Report, CEC, October 11, 1993
Draft, Preliminary Site Assessment, OHM, October 1994

Base map: OHM Remediation Services Corp., Potentiometric Surface Data, October 4, 1994

0 30 Feet
Approximate scale

GOODYEAR TIRE CENTER
Albany, California

CONTOURS OF OIL AND GREASE IN SOIL

Date 7/16/98 | Project No. 1522.03 | Figure 6

Treadwell&Rollo

APPENDIX A
Boring Logs

PROJECT: **GOODYEAR TIRE CENTER**
Albany, California

Log of Boring TR-1

Boring location: See Site Plan, Figure 2 | Logged by: C. Ronan

Date started: 6/14/98 | Date finished: 6/14/98

Drilling method: Geoprobe Direct Push Technology

Hammer weight/drop: N/A | Hammer type: N/A

Sampler: Constant Core

DEPTH (feet)	SAMPLES: Sampler Type 1	SAMPLES: Sample	SAMPLES: Blows/foot	OVM	LITHOLOGY	MATERIAL DESCRIPTION
						Ground Surface Elevation: Not surveyed
0						Concrete
1–2					CL	CLAY (CL) red-brown with black mottling, soft, moist
3	EN			0		
4	EN					SANDY CLAY (CL) red-brown with gray mottling, medium stiff, gravel dark brown clay lens at 4 feet
5–6						gray-black mottling at 5.5 feet
7	EN			3.1		more gray discoloration, slight odor
8–9					CL	
10						uniform loose gravel (potential fill from adjacent waste oil tank area)
11						
12	EN			63.9		gray discoloration, odor
13						Boring terminated at a depth of 12 feet. Boring backfilled with cement-bentonite mixture. Groundwater not encountered during boring.
14–30						[1] EN indicates environmental sample. [2] A clay pipe was encountered 2 inches below the concrete slab. The pipe interior was dry. Based on construction drawings, the pipe appears to be related to former site use and not to Goodyear operations.

PROJECT: **GOODYEAR TIRE CENTER**
Albany, California

Log of Boring TR-2

Boring location: See Site Plan, Figure 2 | Logged by: C. Ronan

Date started: 6/14/98 | Date finished: 6/14/98

Drilling method: Geoprobe Direct Push Technology

Hammer weight/drop: N/A | Hammer type: N/A

Sampler: Constant Core

DEPTH (feet)	SAMPLES: Sampler Type[1]	SAMPLES: Sample	SAMPLES: Blows/foot	OVM	LITHOLOGY	MATERIAL DESCRIPTION
						Ground Surface Elevation: Not surveyed
1					SP	Concrete
2						SAND (SP) — FILL brown, medium dense, moist
3						CLAY (CL) dark brown, stiff, moist, some gravel
4	EN			0		
5					CL	
6						gray discoloration with odor, from approximately 6 to 8 feet
7						
8	EN			3.1		
9					CL	SANDY CLAY (CL) red-brown with black mottling, medium stiff, moist, no odor
10						gray-green discoloration with odor
11					CL	CLAY (CL) gray, very stiff, moist
12						
13						Boring terminated at a depth of 12 feet. Boring backfilled with cement-bentonite mixture. Groundwater not encountered during drilling.
14						
15						[1] EN indicates environmental boring.
16						[2] Slough observed at 4 feet at top of sample tube.
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

PROJECT: **GOODYEAR TIRE CENTER**
Albany, California

Log of Boring TR-4

Boring location: See Site Plan, Figure 2
Logged by: C. Ronan
Date started: 6/14/98
Date finished: 6/14/98
Drilling method: Geoprobe Direct Push Technology
Hammer weight/drop: N/A
Hammer type: N/A
Sampler: Constant Core

DEPTH (feet)	SAMPLES: Sampler Type[1]	SAMPLES: Sample	SAMPLES: Blows/foot	OVM	LITHOLOGY	MATERIAL DESCRIPTION
						Ground Surface Elevation: Not surveyed
1						Asphalt baserock
2						No recovery
3				0	CL	CLAY (CL) dark brown, soft, moist, gravel interspersed
4						
5						
6					CL	CLAY (CL) red-brown with gray mottling, medium stiff, moist, with organics
7	EN					black mottling with gravel
8	EN			0		
9	EN					slough
10						
11						
12					SC	SANDY CLAY (SC) red-brown, soft, moist, 10 - 20% sand
13				0		black mottling, slough
14						
15						gravel
16						
17						Boring terminated at a depth of 16 feet. Boring backfilled with cement-bentonite mixture. Groundwater not encountered during drilling.
18						
19						[1] EN indicates environmental sample.
20						[2] Slough observed at 8 and 13 feet.
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

PROJECT: **GOODYEAR TIRE CENTER**
Albany, California

Log of Boring TR-5

Boring location: See Site Plan, Figure 2 | Logged by: C. Ronan

Date started: 6/14/98 | Date finished: 6/14/98

Drilling method: Geoprobe Direct Push Technology

Hammer weight/drop: N/A | Hammer type: N/A

Sampler: Constant Core

DEPTH (feet)	SAMPLES: Sampler Type[1]	SAMPLES: Sample	SAMPLES: Blows/foot	OVM	LITHOLOGY	MATERIAL DESCRIPTION
						Ground Surface Elevation: Not surveyed
1–4	EN			0	SC	SANDY CLAY (SC) dark brown, medium stiff, moist, with organics, gravel
5–7					SC	SANDY CLAY (SC) red-brown with black mottling, stiff, moist
8	EN			9.3	SC	slough
9	EN				SC	
10–11					SC	
12–13					SC	increased sand content
14–15					SC	decreased sand content
16						Boring terminated at a depth of 16 feet. Boring backfilled with cement-bentonite mixture. Groundwater not encountered during drilling.
17–30						

[1] EN indicates environmental sample.

[2] Slough observed at 8 feet at top of sample tube.

APPENDIX B
Laboratory Analytical Results

K PRIME, Inc.
CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
Fax: 707 527 7879

TRANSMITTAL

DATE: 06.22.98

TO: Ms. CARRIE AUSTIN
TREADWELL & ROLLO
2 THEATRE SQUARE
SUITE 216
ORINDA CA 94563

Acct: 9813
Project: 1522.02 GOODYEAR

Phone: 925.253.4980 X415
FAX: 925.253.4985

FROM: Richard A. Kagel, Ph.D. RAK 6/22/98
Laboratory Director

SUBJECT: YOUR PROJECT "1522.02 GOODYEAR TIRE CENTER" LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
MW-1	WATER	06.14.98	15044
MW-3	WATER	06.14.98	15045
TR-1-6.5	SOIL	06.14.98	15046
TR-1-11.5	SOIL	06.14.98	15047
TR-2-4.5	SOIL	06.14.98	15048
TR-2-7.5	SOIL	06.14.98	15049
TR-4-6.5	SOIL	06.14.98	15050
TR-4-8.5	SOIL	06.14.98	15051
TR-5-7.5	SOIL	06.14.98	15063
TR-5-9.0	SOIL	06.14.98	15052

These samples were received in our laboratory on 06.16.98 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID:	MW-1
LAB NO:	15044
SAMPLE TYPE:	WATER
DATE SAMPLED:	6/14/98
TIME SAMPLED:	NA

METHOD: TPH-D
REFERENCE: EPA MOD 8015

DATE ANALYZED:	6/22/98
UNITS:	ug/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-D*	50.0	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

APPROVED BY: RAC
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: MW-3
LAB NO: 15045
SAMPLE TYPE: WATER
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: BTEX + MTBE
REFFERENCE: EPA 8020

DATE ANALYZED: 6/17/98
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	0.50	ND
TOLUENE	108-88-3	0.50	ND
ETHYLBENZENE	100-41-4	0.50	ND
M-&P-XYLENE	1330-20-7	0.50	ND
O-XYLENE	95-47-6	0.50	ND
MTBE	1634-04-4	5.00	ND

METHOD: TPH-G
REFERENCE: EPA MOD 8015

DATE ANALYZED: 6/17/98
UNITS: mg/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.05	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

APPROVED BY: RTC
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: MW-3
LAB NO: 15045
SAMPLE TYPE: WATER
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: OXYGENATES
REFFERENCE: EPA 8260

DATE ANALYZED: 6/22/98
UNITS: UG/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
METHYL TERT-BUTYL ETHER	1634-04-4	5.00	ND
TERT-AMYL METHYL ETHER	994-05-8	5.00	ND
TERT-BUTYL ETHYL ETHER	637-92-3	5.00	ND
ISOPROPYL ETHER	108-20-3	5.00	ND
TERT-BUTANOL	75-65-0	50.0	ND

PREPARED BY: AB
DATE: 6.22.98

APPROVED BY: RAC
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: MW-3
LAB NO: 15045
SAMPLE TYPE: WATER
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 8260

DATE ANALYZED: 6/22/98
UNITS: µg/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
METHYLENE CHLORIDE	75-09-2	5.000	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
4-METHYL-2-PENTANONE	108-10-1	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: MW-3
LAB NO: 15045
SAMPLE TYPE: WATER
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 8260

DATE ANALYZED: 6/22/98
UNITS: µg/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.500	ND
HEXACHLOROBUTADIENE	87-68-3	0.500	ND
NAPHTHALENE	91-20-3	0.500	ND
1,2,3-TRICHLOROBENZENE	87-61-6	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	103
TOLUENE-D8	106
4-BROMOFLUOROBENZENE	101

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: AMC
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: MW-3
LAB NO: 15045

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE TYPE: WATER
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: SEMI-VOC'S BY GC/MS
REFERENCE: EPA 8270

DATE EXTRACTED: 6/18/98
DATE ANALYZED: 6/18/98
UNITS: ug/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	10.0	ND
ACENAPHTHYLENE	10.0	ND
ANTHRACENE	10.0	ND
BENZO (A) ANTHRACENE	10.0	ND
BENZO (B) FLUORANTHENE	10.0	ND
BENZO (K) FLUORANTHENE	10.0	ND
BENZO (A) PYRENE	10.0	ND
BENZO (G,H,I) PERYLENE	10.0	ND
BENZYL ALCOHOL	20.0	ND
BUTYL BENZYL PHTHALATE	10.0	ND
BIS (2-CHLOROETHYL) ETHER	10.0	ND
BIS (2-CHLOROETHOXY) METHANE	10.0	ND
BIS (2-CHLOROISOPROPYL) ETHER	10.0	ND
BIS (2-ETHYLHEXYL) PHTHALATE	10.0	ND
4-BROMOPHENYL PHENYL ETHER	10.0	ND
4-CHLOROANALINE	10.0	ND
2-CHLORONAPHTHALENE	10.0	ND
4-CHLOROPHENYL PHENYL ETHER	10.0	ND
CHRYSENE	10.0	ND
DIBENZO (A,H) ANTHRACENE	10.0	ND
DIBENZOFURAN	10.0	ND
DI-N-BUTYLPHTHALATE	10.0	ND
1,2-DICHLOROBENZENE	10.0	ND
1,3-DICHLOROBENZENE	10.0	ND
1,4-DICHLOROBENZENE	10.0	ND
3,3'-DICHLOROBENZIDINE	20.0	ND
DIETHYLPHTHALATE	10.0	ND
DIMETHYL PHTHALATE	10.0	ND
2,4-DINITROTOLUENE	10.0	ND
2,6-DINITROTOLUENE	10.0	ND
DI-N-OCTYL PHTHALATE	10.0	ND
FLUORANTHENE	10.0	ND
FLUORENE	10.0	ND
HEXACHLOROBENZENE	10.0	ND
HEXACHLOROBUTADIENE	10.0	ND

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

METHOD: SEMI-VOC'S BY GC/MS
REFERENCE: EPA 8270

SAMPLE ID: MW-3
LAB NO: 15045

SAMPLE TYPE: WATER
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

DATE EXTRACTED: 6/18/98
DATE ANALYZED: 6/18/98
UNITS: ug/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
HEXACHLOROCYCLOPENTADIENE	10.0	ND
HEXACHLOROETHANE	10.0	ND
INDENO (1,2,3-CD) PYRENE	10.0	ND
ISOPHORONE	10.0	ND
2-METHYLNAPHTHALENE	10.0	ND
NAPHTHALENE	10.0	ND
2-NITROANILINE	50.0	ND
3-NITROANILINE	50.0	ND
4-NITROANILINE	50.0	ND
NITROBENZENE	10.0	ND
N-NITROSO-DI-N-PROPYLAMINE	10.0	ND
N-NITROSODIPHENYLAMINE	10.0	ND
PHENANTHRENE	10.0	ND
PYRENE	10.0	ND
1,2,4-TRICHLOROBENZENE	10.0	ND
ACID EXTRACTABLES		
4-CHLORO-3-METHYLPHENOL	20.0	ND
2-CHLOROPHENOL	20.0	ND
2,4-DICHLOROPHENOL	20.0	ND
2,4-DIMETHYLPHENOL	20.0	ND
2,4-DINITROPHENOL	50.0	ND
4,6-DINITRO-2-METHYLPHENOL	50.0	ND
2-NITROPHENOL	50.0	ND
4-NITROPHENOL	50.0	ND
PENTACHLOROPHENOL	50.0	ND
PHENOL	20.0	ND
2-METHYLPHENOL	20.0	ND
4-METHYLPHENOL	20.0	ND
2,4,5-TRICHLOROPHENOL	50.0	ND
2,4,6-TRICHLOROPHENOL	50.0	ND

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

METHOD: SEMI-VOC'S BY GC/MS
REFERENCE: EPA 8270

SAMPLE ID: MW-3
LAB NO: 15045

SAMPLE TYPE: WATER
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

DATE EXTRACTED: 6/18/98
DATE ANALYZED: 6/18/98
UNITS: ug/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC

SURROGATE RECOVERY	%
NITROBENZENE-D5	63
2-FLUOROBIPHENYL	74
P-TERPHENYL-D14	123
PHENOL-D5	12
2-FLUOROPHENOL	19
2,4,6-TRIBROMOPHENOL	72

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT

PREPARED BY: AB
DATE: 6.22.98

APPROVED BY: RAK
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID:	TR-1-6.5
LAB NO:	15046
SAMPLE TYPE:	SOIL
DATE SAMPLED:	6/14/98
TIME SAMPLED:	NA

METHOD: TPH-D
REFERENCE: EPA MOD 8015

DATE ANALYZED:	6/18/98
UNITS:	MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-D*	10.0	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

APPROVED BY: GAC
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: TR-1-6.5
LAB NO: 15046

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE TYPE: SOIL
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: SEMI-VOC'S BY GC/MS
REFERENCE: EPA 8270

DATE EXTRACTED: 6/19/98
DATE ANALYZED: 6/19/98
UNITS: UG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	330	ND
ACENAPHTHYLENE	330	ND
ANTHRACENE	330	ND
BENZO (A) ANTHRACENE	330	ND
BENZO (B) FLUORANTHENE	330	ND
BENZO (K) FLUORANTHENE	330	ND
BENZO (A) PYRENE	330	ND
BENZO (G,H,I) PERYLENE	330	ND
BENZYL ALCOHOL	660	ND
BUTYL BENZYL PHTHALATE	330	ND
BIS (2-CHLOROETHYL) ETHER	330	ND
BIS (2-CHLOROETHOXY) METHANE	330	ND
BIS (2-CHLOROISOPROPYL) ETHER	330	ND
BIS (2-ETHYLHEXYL) PHTHALATE	330	ND
4-BROMOPHENYL PHENYL ETHER	330	ND
4-CHLOROANALINE	330	ND
2-CHLORONAPHTHALENE	330	ND
4-CHLOROPHENYL PHENYL ETHER	330	ND
CHRYSENE	330	ND
DIBENZO (A,H) ANTHRACENE	330	ND
DIBENZOFURAN	330	ND
DI-N-BUTYLPHTHALATE	330	ND
1,2-DICHLOROBENZENE	330	ND
1,3-DICHLOROBENZENE	330	ND
1,4-DICHLOROBENZENE	330	ND
3,3'-DICHLOROBENZIDINE	660	ND
DIETHYLPHTHALATE	330	ND
DIMETHYL PHTHALATE	330	ND
2,4-DINITROTOLUENE	330	ND
2,6-DINITROTOLUENE	330	ND
DI-N-OCTYL PHTHALATE	330	ND
FLUORANTHENE	330	ND
FLUORENE	330	ND
HEXACHLOROBENZENE	330	ND
HEXACHLOROBUTADIENE	330	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: TR-1-6.5
LAB NO: 15046

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE TYPE: SOIL
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: SEMI-VOC'S BY GC/MS
REFERENCE: EPA 8270

DATE EXTRACTED: 6/19/98
DATE ANALYZED: 6/19/98
UNITS: UG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
HEXACHLOROCYCLOPENTADIENE	330	ND
HEXACHLOROETHANE	330	ND
INDENO (1,2,3-CD) PYRENE	330	ND
ISOPHORONE	330	ND
2-METHYLNAPHTHALENE	330	ND
NAPHTHALENE	330	ND
2-NITROANILINE	1,600	ND
3-NITROANILINE	1,600	ND
4-NITROANILINE	1,600	ND
NITROBENZENE	330	ND
N-NITROSO-DI-N-PROPYLAMINE	330	ND
N-NITROSODIPHENYLAMINE	330	ND
PHENANTHRENE	330	ND
PYRENE	330	ND
1,2,4-TRICHLOROBENZENE	330	ND
ACID EXTRACTABLES		
4-CHLORO-3-METHYLPHENOL	660	ND
2-CHLOROPHENOL	660	ND
2,4-DICHLOROPHENOL	660	ND
2,4-DIMETHYLPHENOL	660	ND
2,4-DINITROPHENOL	1,600	ND
4,6-DINITRO-2-METHYLPHENOL	1,600	ND
2-NITROPHENOL	1,600	ND
4-NITROPHENOL	1,600	ND
PENTACHLOROPHENOL	1,600	ND
PHENOL	660	ND
2-METHYLPHENOL	660	ND
4-METHYLPHENOL	660	ND
2,4,5-TRICHLOROPHENOL	1,600	ND
2,4,6-TRICHLOROPHENOL	1,600	ND

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

METHOD: SEMI-VOC'S BY GC/MS
REFERENCE: EPA 8270

SAMPLE ID: TR-1-6.5
LAB NO: 15046

SAMPLE TYPE: SOIL
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

DATE EXTRACTED: 6/19/98
DATE ANALYZED: 6/19/98
UNITS: UG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
SURROGATE RECOVERY	%	
NITROBENZENE-D5	64	
2-FLUOROBIPHENYL	72	
P-TERPHENYL-D14	117	
PHENOL-D5	72	
2-FLUOROPHENOL	59	
2,4,6-TRIBROMOPHENOL	67	

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT

PREPARED BY: AB
DATE: 6.22.98

APPROVED BY: RMC
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID:	TR-1-11.5
LAB NO:	15047
SAMPLE TYPE:	SOIL
DATE SAMPLED:	6/14/98
TIME SAMPLED:	NA

METHOD: TPH-D
REFERENCE: EPA MOD 8015

DATE ANALYZED:	6/18/98
UNITS:	MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-D*	10.0	151

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	YES
UNKNOWN EXTRACTABLES PATTERN	

APPROVED BY: RAM
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID:	TR-2-4.5
LAB NO:	15048
SAMPLE TYPE:	SOIL
DATE SAMPLED:	6/14/98
TIME SAMPLED:	NA

METHOD: TPH-D
REFERENCE: EPA MOD 8015

DATE ANALYZED:	6/18/98
UNITS:	MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-D*	10.0	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

APPROVED BY: BMK
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID:	TR-2-7.5
LAB NO:	15049
SAMPLE TYPE:	SOIL
DATE SAMPLED:	6/14/98
TIME SAMPLED:	NA

METHOD: TPH-D
REFERENCE: EPA MOD 8015

DATE ANALYZED:	6/18/98
UNITS:	MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-D*	10.0	311

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	YES
UNKNOWN EXTRACTABLES PATTERN	

APPROVED BY: [signature]
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TR-4-6.5
LAB NO: 15050
SAMPLE TYPE: SOIL
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 8/17/98
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND
MTBE	1634-04-4	50.0	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 6/17-18/98
UNITS: mg/Kg

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND
TPH-D*	10.0	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

APPROVED BY: RAC
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TR-4-8.5
LAB NO: 15051
SAMPLE TYPE: SOIL
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 6/17/98
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND
MTBE	1634-04-4	50.0	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 6/17-18/98
UNITS: mg/Kg

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND
TPH-D*	10.0	74.2

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	YES
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

APPROVED BY: KPK
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID:	TR-5-9.0
LAB NO:	15052
SAMPLE TYPE:	SOIL
DATE SAMPLED:	6/14/98
TIME SAMPLED:	NA

METHOD: TPH-D
REFERENCE: EPA MOD 8015

DATE ANALYZED:	6/18/98
UNITS:	MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-D*	10.0	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

APPROVED BY: BAK
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID:	TR-5-7.5
LAB NO:	15063
SAMPLE TYPE:	SOIL
DATE SAMPLED:	6/14/98
TIME SAMPLED:	NA

METHOD: TPH-D
REFERENCE: EPA MOD 8015

DATE ANALYZED:	6/18/98
UNITS:	MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-D*	10.0	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

APPROVED BY: RAK
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

METHOD: OIL AND GREASE
REFERENCE: SM 5520F

KPI PROJECT: 9813
CLIENT PROJECT: SF1522.02

SAMPLE TYPE: SOIL
UNITS: mg/Kg

SAMPLE ID	LAB ID #	DATE SAMPLED	TIME SAMPLED	ANALYSIS DATE	REPORTING LIMIT	SAMPLE RESULT
TR-1-6.5	15046	6/14/98	NA	6/22/98	50.0	ND
TR-1-11.5	15047	6/14/98	NA	6/22/98	50.0	55.4
TR-2-4.5	15048	6/14/98	NA	6/22/98	50.0	ND
TR-2-7.5	15049	6/14/98	NA	6/22/98	50.0	73.5
TR-4-6.5	15050	6/14/98	NA	6/22/98	50.0	ND
TR-4-8.5	15051	6/14/98	NA	6/22/98	50.0	690
TR-5-9.0	15052	6/14/98	NA	6/22/98	50.0	ND
TR-5-7.5	15063	6/14/98	NA	6/22/98	50.0	ND

NOTES:
ND - NOT DETECTED AT REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: RAK

DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

METHOD: OIL AND GREASE
REFERENCE: SM 5520F

KPI PROJECT: 9813
CLIENT PROJECT: 1522.02

SAMPLE TYPE: WATER
UNITS: mg/L

SAMPLE ID	LAB ID #	DATE SAMPLED	TIME SAMPLED	ANALYSIS DATE	REPORTING LIMIT	SAMPLE RESULT
MW-3	15045	6/14/98	NA	6/22/98	5.0	ND

NOTES:
ND - NOT DETECTED AT REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: RAM

DATE: 6/22/98

KPL Proj # 9813

Treadwell&Rollo
555 Montgomery Street, Suite 1300
San Francisco, California
(415) 955-9040
(415) 955-9041 Fax

CHAIN OF CUSTODY RECORD

Project No. 1522.02 Project Name Goodyear Tire Center Date 6/14/98 Page 1 of ___

Date	Sample Number	Analysis: TPH Diesel (8015M)	TPH-Gasoline + BTEX + MTBE (8015M/8020)	Oil & Grease (5520F)	LUFT METALS (6010/7000) Cd, Cr, Ni, Pb, Zn	SVOCs + PAHs (8270)	Sample Information: Number of Containers	VOCs + Oxygenates (8260)	KPL SPL #
14/98	TR-1	X		X		X			water
	TR-2	X		X					
	TR-3 (COMP)								
	TR-4	X	X	X					
	TR-5	X	X	X					
5044	MW-1	X							~~15062~~
5045	MW-3		X	X		X		X	~~15044~~
5046	TR-1-6.5	X		X		X	1		~~15045~~ Soil
5047	TR-1-11.5	X		X	(COMP)		1		~~15046~~
5048	TR-2-4.5	X		X			1		~~15047~~
5049	TR-2-7.5	X		X			1		~~15048~~
	TR-3						1		
5050	TR-4-6.5	X	X	X			1		~~15049~~
5051	TR-4-8.5	X	X	X			1		~~15050~~
5063	TR-5-7.5	X		X			1		~~15051~~
5052	TR-5-9.0	X		X			1		~~15052~~
			Total Number of Containers						

AMK 6/22/98

Relinquished by (Sampler):
Signature Kathryn S Ronan
Printed Name KATHY RONAN
Company [redacted]
Date 6/15/98 Time 9:40

Received by:
Signature [illegible] #1033 MCM
Printed Name
Company MCM Courier
Date 6/15/98 Time 9:40

Received by:
Signature
Printed Name
Company [redacted]
Date Time
Method of Shipment

Received by (Lab): Signature
Printed Name ARMINDO BARBOSA
Lab KPL
Date 6/16/98 Time 15:00

Lab Comments
Refer to Change Order for Lab ID and Analyses
fb 22 Jun 98

Remarks:

K PRIME, INC.

CHANGE ORDER

CONSULTING ANALYTICAL CHEMISTS 3621 Westwind Blvd. Santa Rosa CA 95403 PHONE: 707.527.7574 FAX: 707.527.7879

Client/Project ID	Address/Phone: 2 Theatre Square #216	ANALYSES	KPI Project No. 9813
Treadwell & Rollo	Orinda CA 94563 925.253.4980/4985		
Project Location	Client Project No.		
431 San Pablo Ave	1522.02		
Contact	Sampler (Signature)		
Carrie Austin	Cary Ronan		

Sample Identification	Lab Sample No.	Date	Time	Type of Sample	No. of Containers	TPH-D	TPH-G/BTEX	MTBE	O&G	LUFT Metals	8270	8260+Oxys					Turn-around	Remarks
MW-1	15044	14-Jun-98		WATER	-	√											Friday	
MW-3	15045	14-Jun-98		WATER	-		√	√	√		√	√					Friday	
TR-1-6.5	15046	14-Jun-98		SOIL	1	√			√		√						Friday	
TR-1-11.5	15047	14-Jun-98		SOIL	1	√			√								Friday	
TR-2-4.5	15048	14-Jun-98		SOIL	1	√			√								Friday	
TR-2-7.5	15049	14-Jun-98		SOIL	1	√			√								Friday	
TR-4-6.5	15050	14-Jun-98		SOIL	1	√	√	√	√								Friday	
TR-4-8.5	15051	14-Jun-98		SOIL	1	√	√	√	√								Friday	
TR-5-7.5	15063	14-Jun-98		SOIL	1	√			√								Friday	
TR-5-9.0	15052	14-Jun-98		SOIL	1	√			√								Friday	
END of LIST																		

Authorized by: (Signature) (Lab Originated)	Date 17-Jun-98	Time NA	Approved by: (Signature) Ginger Brinlee
Authorized by: (Signature) Carrie Austin	Date 18-Jun-98	Time 8:35	Approved by: (Signature) Ginger Brinlee
Authorized by: (Signature)	Date	Time	Approved by: (Signature)

Comments: Lab identifiers reassigned as noted above.

Comments: Date Time

K PRIME, Inc.
CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
Fax: 707 527 7879

TRANSMITTAL

DATE: 06.22.98

TO: Ms. CARRIE AUSTIN
TREADWELL & ROLLO
2 THEATRE SQUARE
SUITE 216
ORINDA CA 94563

Acct: 9813
Project. 1522.02 GOODYEAR

Phone: 925.253.4980 X415
FAX: 925.253.4985

FROM: Richard A. Kagel, Ph.D. RAK 6/22/98
Laboratory Director

SUBJECT: YOUR PROJECT "1522.02 GOODYEAR TIRE CENTER" LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
TR-2	WATER	06.15.98	15064
TR-4	WATER	06.15.98	15065
TR-5	WATER	06.15.98	15066
TB	WATER	06.15.98	15067
TR-3-1.5	SOIL	06.15.98	15068

These samples were received in our laboratory on 06.17.98 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TR-2
LAB NO: 15064
SAMPLE TYPE: WATER
DATE SAMPLED: 6/15/98
TIME SAMPLED: NA

METHOD: BTEX + MTBE
REFFERENCE: EPA 8020

DATE ANALYZED: 6/17/98
UNITS: UG/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	0.50	ND
TOLUENE	108-88-3	0.50	0.718
ETHYLBENZENE	100-41-4	0.50	ND
M-&P-XYLENE	1330-20-7	0.50	ND
O-XYLENE	95-47-6	0.50	ND
MTBE	1634-04-4	5.00	ND

METHOD: TPH-G
REFERENCE: EPA MOD 8015

DATE ANALYZED: 6/17/98
UNITS: MG/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.05	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

APPROVED BY: RAK
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TR-4
LAB NO: 15065
SAMPLE TYPE: WATER
DATE SAMPLED: 6/15/98
TIME SAMPLED: NA

METHOD: BTEX + MTBE
REFFERENCE: EPA 8020

DATE ANALYZED: 6/17/98
UNITS: UG/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	0.50	ND
TOLUENE	108-88-3	0.50	ND
ETHYLBENZENE	100-41-4	0.50	ND
M-&P-XYLENE	1330-20-7	0.50	ND
O-XYLENE	95-47-6	0.50	ND
MTBE	1634-04-4	5.00	ND

METHOD: TPH-G
REFERENCE: EPA MOD 8015

DATE ANALYZED: 6/17/98
UNITS: MG/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.05	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

APPROVED BY: BMK
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TR-5
LAB NO: 15066
SAMPLE TYPE: WATER
DATE SAMPLED: 6/15/98
TIME SAMPLED: NA

METHOD: BTEX + MTBE
REFFERENCE: EPA 8020

DATE ANALYZED: 6/17/98
UNITS: UG/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	0.50	ND
TOLUENE	108-88-3	0.50	ND
ETHYLBENZENE	100-41-4	0.50	ND
M-&P-XYLENE	1330-20-7	0.50	ND
O-XYLENE	95-47-6	0.50	ND
MTBE	1634-04-4	5.00	ND

METHOD: TPH-G
REFERENCE: EPA MOD 8015

DATE ANALYZED: 6/17/98
UNITS: MG/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.05	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

APPROVED BY: RMS
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TB
LAB NO: 15067
SAMPLE TYPE: WATER
DATE SAMPLED: 6/15/98
TIME SAMPLED: NA

METHOD: BTEX + MTBE
REFFERENCE: EPA 8020

DATE ANALYZED: 6/17/98
UNITS: UG/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	0.50	ND
TOLUENE	108-88-3	0.50	1.27
ETHYLBENZENE	100-41-4	0.50	ND
M-&P-XYLENE	1330-20-7	0.50	ND
O-XYLENE	95-47-6	0.50	ND
MTBE	1634-04-4	5.00	ND

METHOD: TPH-G
REFERENCE: EPA MOD 8015

DATE ANALYZED: 6/17/98
UNITS: MG/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.05	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

APPROVED BY: AMC
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9813
YOUR PROJECT: 1522.02

SAMPLE ID: TB
LAB NO: 15067
SAMPLE TYPE: WATER
DATE SAMPLED: 6/15/98
TIME SAMPLED: NA

METHOD: OXYGENATES
REFFERENCE: EPA 8260

DATE ANALYZED: 6/22/98
UNITS: UG/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
METHYL TERT-BUTYL ETHER	1634-04-4	5.00	ND
TERT-AMYL METHYL ETHER	994-05-8	5.00	ND
TERT-BUTYL ETHYL ETHER	637-92-3	5.00	ND
ISOPROPYL ETHER	108-20-3	5.00	ND
TERT-BUTANOL	75-65-0	50.0	ND

PREPARED BY: AB
DATE: 6.22.98

APPROVED BY: RMC
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TB
LAB NO: 15067
SAMPLE TYPE: WATER
DATE SAMPLED: 6/15/98
TIME SAMPLED: NA

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 8260

DATE ANALYZED: 6/22/98
UNITS: µg/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
METHYLENE CHLORIDE	75-09-2	5.000	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0 500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
4-METHYL-2-PENTANONE	108-10-1	0.500	ND
TOLUENE	108-88-3	0.500	1.51
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TB
LAB NO: 15067
SAMPLE TYPE: WATER
DATE SAMPLED: 6/15/98
TIME SAMPLED: NA

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 8260

DATE ANALYZED: 6/22/98
UNITS: µg/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.500	ND
HEXACHLOROBUTADIENE	87-68-3	0.500	ND
NAPHTHALENE	91-20-3	0.500	ND
1,2,3-TRICHLOROBENZENE	87-61-6	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	101
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	102

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: RAK
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID:	TR-3-1.5
LAB NO:	15068
SAMPLE TYPE:	SOIL
DATE SAMPLED:	6/15/98
TIME SAMPLED:	NA

METHOD: TPH-D
REFERENCE: EPA MOD 8015

DATE ANALYZED:	6/18/98
UNITS:	MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-D*	10.0	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

APPROVED BY: RAK
DATE: 6/22/98

K PRIME, INC.
LABORATORY REPORT

METHOD: OIL AND GREASE
REFERENCE: SM 5520F

KPI PROJECT: 9813
CLIENT PROJECT: 1522.02

SAMPLE TYPE: SOIL
UNITS: mg/Kg

SAMPLE ID	LAB ID #	DATE SAMPLED	TIME SAMPLED	ANALYSIS DATE	REPORTING LIMIT	SAMPLE RESULT
TR-3-1.5	15068	6/15/98	NA	6/22/98	50.0	ND

NOTES:
ND - NOT DETECTED AT REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: _____

DATE: 6/22/98

K PRIME, INC.

CHANGE ORDER

CONSULTING ANALYTICAL CHEMISTS 3621 Westwind Blvd. Santa Rosa CA 95403 PHONE: 707.527.7574 FAX: 707.527.7879

Client/Project ID	Address/Phone: 555 Montgomery St #1300	ANALYSES	KPI Project No. 9813
Treadwell & Rollo	San Francisco CA 94111 415.955.9040/9041		
Project Location	Client Project No.		
431 San Pablo Ave	1522.02		
Contact	Sampler (Signature)		
Carrie Austin	Cary Ronan		

Sample Identification	Lab Sample No	Date	Time	Type of Sample	No. of Containers	TPH-D	TPH-G/BTEX	MTBE	O&G	VOCs/Oxys						Turn-around	Remarks
TR-2	15064	15-Jun-98		WATER	2+		√	√								Friday	TPH-G/BTEX/MTBE
TR-4	15065	15-Jun-98		WATER	2+	√	√	√	√							Friday	Analyze all if poss.
TR-5	15066	15-Jun-98		WATER	1+		√	√								Friday	TPH-G/BTEX/MTBE
TB	15067	15-Jun-98		WATER	6		√	√		√						Friday	No Change
TR-3-1.5	15068	15-Jun-98		SOIL	1	√			√							Friday	No Change

Authorized by: (Signature) Carrie Austin/fax	Date 17-Jun	Time 11:28	Approved by: (Signature) Ginger Brinlee
Authorized by: (Signature)	Date	Time	Approved by: (Signature)
Authorized by: (Signature)	Date	Time	Approved by: (Signature)

Comments: Cancel TPH-D and O&G for samples 15064 and 15066. NO VIALS WITH HEADSPACE WERE ANALYZED FOR VOLATILE COMPOUNDS

NOTE: Reporting Limits for Semi-Volatile analyses will be significantly increased due to low sample volume.

Date Time

Treadwell&Rollo
555 Montgomery Street, Suite 1300
San Francisco, California
(415) 955-9040
(415) 955-9041 Fax

CHAIN OF CUSTODY RECORD

Project No. 1522.02 Project Name 431 San Pablo Ave Date 6/15/98 Page 1 of 1

Date	Sample Number	TPH-Diesel 8015M	TPH-Gas + BTEX + MTBE (8015M/8020)	Oil & Grease (5520F)	LUFT METALS (6010/7000)	SVOCs + PAHs (8270)	VOCs + Oxygenates (8260)	Number of Containers	Sample Information
6/15/98	TR-2	X		X				3	water (2 2/3 VOAs)
↓	TR-4	X	X	X				3	↓ (2 1/2 VOAs)
	TR-5	X		X				2	(1 1/3 VOA)
	TB		X				X	6	↓ (6 VOAs)
	TR-3-1.5	X		X				1	soil
							Total Number of Containers	15	

SMP ID	KPI SAMPLE #
TR-2	15064
TR-4	15065
TR-5	15066
TB	15067
TR-3-1.5	15068

Relinquished by (Sampler):
Signature: Cary E Ronan
Printed Name: CARY E. RONAN
Company: T&R
Date 6/15/98 Time 16:00

Received by: Peter Cusack
Signature: Peter J. Cusack
Printed Name: T&R
Company:
Date 6/15/98 Time 16:00

Relinquished by: Peter Cusack
Signature: Peter J. Cusack
Printed Name: T&R
Company:
Date 6/16/98 Time 15:40

Method of Shipment

Received by (Lab): David # 2036
Signature
Printed Name
Lab: [signature]
Date 6/17/98 Time 11:00

Lab Comments

S&L

Remarks: - Pls. Filter H2O for metals
- Fax Results to Carrie Austin @ (925) 253-4985
* could not get enough H2O from wells *

Treadwell&Rollo
535 Montgomery Street, Suite 1300
San Francisco, California
(415) 955-9040
(415) 955-9041 Fax

CHAIN OF CUSTODY RECORD

Project No. 1522.02 Project Name 431 San Pablo Ave Date 6/15/98 Page 1 of 1

Date	Sample Number	Analysis: TPH-Diesel (8015M)	TPH-Gas + BTEX + MTBE (8020/8015M)	Oil & Grease (5520E/F)	LUFT METALS (6010/7000)	SVOCs + PAHs (8270)	VOCs + Oxygenates (8260)	Number of Containers	Sample Information
6/15/98	TR-2	X	⊗	X				3	Water (2 VOAs)
	TR-4	X	X	X				3	(2½ VOAs)
	TR-5	X	⊗	X				2	(1 VOA)
	TB		X				X	6	(6 VOAs)
	TR-3-1.5	X		X				1	soil
	6/17/98								Lab do not
	Do not proceed with								analyze partial
	TPH-diesel								VOAs. Make note
	or O&G								of this on your
	for TR-2								lab report.
	TR-5. Instead								Carrie Austin
⊗	do analyze TPH-G + BTEX + MTBE Carrie Austin								

Post-it® Fax Note 7671 Date # of pages ▶
To Carrie Austin From Ginger Bunker
Co./Dept. Co. To ↑
Phone # Phone #
Fax # Fax #

Total Number of Containers 15

Relinquished by (Sampler):
Signature
Printed Name CARRIE MONAN
Company TRR
Date 6/15/98 Time 16:00
Received by:
Signature
Printed Name
Company
Date 6/15/98 Time 16:00
Relinquished by:
Signature
Printed Name
Company
Date 6/16/98 Time 15:40
Method of Shipment
Received by (Lab):
Signature
Printed Name
Date Time
Comments

5 VOA

Remarks:
- Pls. Filter H2O for metals
- Fax Results to Carrie Austin @ (925) 253-4985
- Results by Friday afternoon* (could not get enough H2O from wells for all analyses, but if marked what we had originally planned for)

K PRIME, Inc.
CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
Fax: 707 527 7879

TRANSMITTAL

DATE: 06.22.98

TO: Ms. CARRIE AUSTIN
TREADWELL & ROLLO
2 THEATRE SQUARE
SUITE 216
ORINDA CA 94563

Acct: 9813
Project: 1522.02 GOODYEAR

Phone: 925.253.4980 X415
FAX: 925.253.4985

FROM: Richard A. Kagel, Ph.D.
Laboratory Director

SUBJECT: YOUR PROJECT "1522.02 GOODYEAR TIRE CENTER" LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
MW-1	WATER	06.14.98	15044
MW-3	WATER	06.14.98	15045
TR-1-6.5	SOIL	06 14.98	15046
TR-1-11.5	SOIL	06.14.98	15047
TR-2-4.5	SOIL	06.14.98	15048
TR-2-7.5	SOIL	06.14.98	15049
TR-4-6 5	SOIL	06.14.98	15050
TR-4-8.5	SOIL	06.14 98	15051
TR-5-7.5	SOIL	06.14.98	15063
TR-5-9.0	SOIL	06.14.98	15052

These samples were received in our laboratory on 06.16.98 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

METHOD: OIL AND GREASE
REFERENCE: SM 5520F

KPI PROJECT: 9813
CLIENT PROJECT: 1522.02

SAMPLE TYPE: WATER
UNITS: mg/L

SAMPLE ID	LAB ID #	DATE SAMPLED	TIME SAMPLED	ANALYSIS DATE	REPORTING LIMIT	SAMPLE RESULT
MW-3	15045	6/14/98	NA	6/22/98	0.50	ND

NOTES:
ND - NOT DETECTED AT REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: _____

DATE: 6/25/98

K PRIME, Inc.
CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
Fax: 707 527 7879

TRANSMITTAL

DATE: 06.30 98

TO: Ms. CARRIE AUSTIN
TREADWELL & ROLLO
2 THEATRE SQUARE
SUITE 216
ORINDA CA 94563

Acct: 9813
Project: 1522.02 GOODYEAR

Phone: 925.253.4980 X415
FAX: 925.253.4985

FROM: Richard A. Kagel, Ph.D. RAK 6/30/98
Laboratory Director

SUBJECT: YOUR PROJECT "1522.02 GOODYEAR TIRE CENTER" LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
TR-1-11.5	SOIL	06.14.98	15047
TR-2-7.5	SOIL	06.14.98	15049
TR-4-8.5	SOIL	06.14.98	15051
TR-3-1.5	SOIL	06.15.98	15068

These samples were received in our laboratory on 06.16.98 and 06.17.98 and tested as requested on the chain of custody documents. A visual inspection was performed on sample TR-4-8.5 to determine the presence or absence of asphalt. No visible asphalt was present in the sample.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TR-1-11.5
LAB NO: 15047
SAMPLE TYPE: SOIL
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: BTEX + MTBE
REFFERENCE: EPA 8260

DATE ANALYZED: 6/24/98
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND
MTBE	1634-04-4	50.0	ND

METHOD: TPH-G
REFERENCE: EPA MOD 8260

DATE ANALYZED: 6/24/98
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

APPROVED BY: RHK
DATE: 6/30/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TR-2-7.5
LAB NO: 15049
SAMPLE TYPE: SOIL
DATE SAMPLED: 6/14/98
TIME SAMPLED: NA

METHOD: BTEX + MTBE
REFFERENCE: EPA 8260

DATE ANALYZED: 6/24/98
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND
MTBE	1634-04-4	50.0	ND

METHOD: TPH-G
REFERENCE: EPA MOD 8260

DATE ANALYZED: 6/24/98
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	4.94

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

APPROVED BY: RAK
DATE: 6/20/98

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9813
YOUR PROJECT: 1522.02

SAMPLE ID: TR-3-1.5
LAB NO: 15068
SAMPLE TYPE: SOIL
DATE SAMPLED: 6/15/98
TIME SAMPLED: NA

METHOD: BTEX + MTBE
REFFERENCE: EPA 8020

DATE ANALYZED: 6/17/98
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M-&P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND
MTBE	1634-04-4	50.0	ND

METHOD: TPH-G
REFERENCE: EPA MOD 8015

DATE ANALYZED: 6/17/98
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

APPROVED BY: RAM
DATE: 6/30/98

KPL PROJ # 9813

Treadwell&Rollo
555 Montgomery Street, Suite 1300
San Francisco, California
(415) 955-9040
(415) 955-9041 Fax

CHAIN OF CUSTODY RECORD

Project No. 1522.02 Project Name: Goodyear Tire Center Date 6/14/98 Page 1 of

Date	Sample Number	Analysis: TPHd (EPA 8015M)	TPH-Gasoline + BTEX + MTBE (EPA 8020)	Oil & Grease (5520F)	LUFT METALS (6010/7000) Cd, Cr, Ni, Pb, Zn	SVOCs + PAHs (8270)	Number of Containers	VOCs + Oxygenates (8260)	Sample Information KPL SPL #
6/14/98	TR-1	X		X		X			water
	TR-2	X		X					
	TR-3 (COMP)	X							
	TR-4	X	X	X					
	TR-5	X	X	X					
15044	MW-1	X							MK 6/22/98 ~~15043~~
15045	MW-3		X	X		X		X	~~15044~~
15046	TR-1-6.5	X		X		X	1		Soil ~~15045~~
15047	TR-1-11.5	X		X	(COMP)		1		~~15046~~
15048	TR-2-4.5	X		X			1		~~15047~~
15049	TR-2-7.5	X		X			1		~~15048~~
	TR-3						1		
15050	TR-4-6.5	X	X	X			1		~~15049~~
15051	TR-4-8.5	X	X	X			1		~~15050~~
15063	TR-5-7.5	X		X			1		~~15051~~
15052	TR-5-9.0	X		X			1		~~15052~~
			Total Number of Containers						

Relinquished by (Sampler):
Signature
Printed Name DAN RONAN
Company
Date 6/15/98 Time 9:40
Received by:
Signature [illegible] #1033 MCM
Printed Name
Company MCM Courier
Date 6/15/98 Time 9:40
Received by:
Signature
Printed Name
Company
Date Time
Method of Shipment
Received by (Lab): SEE
Signature
Printed Name HERMINIO BARBOSA
Lab KPL
Date 6/16/98 Time 15:00
Lab Comments
Refer to Change Order for Lab ID and Analyses fax 22 Jun 98

Remarks:

Treadwell&Rollo
555 Montgomery Street, Suite 1300
San Francisco, California
(415) 955-9040
(415) 955-9041 Fax

CHAIN OF CUSTODY RECORD

Project No. 1522.02 Project Name 431 San Pablo Ave Date 6/15/98 Page 1 of 1

Date	Sample Number	Analysis: TPH-Diesel 8015M	TPH-Gas + BTEX + MTBE (8015M/8020)	Oil & Grease (5520 E)	LUFT METALS (6010/7000)	SVOCs + PAHs (8270)	VOCs + Oxygenates (8260)	Number of Containers	Sample Information
6/15/98	TR-2	X		X				3	water (2 1/3 VOAs)
	TR-4	X	X	X				3	(2 1/2 VOAs)
	TR-5	X		X				2	(1 1/3 VOAs)
	TB		X				X	6	(6 VOAs)
	TR-3-1.5	X		X				1	soil
									SMP ID / KPI SAMPLE #
									TR-2 15064
									TR-4 15065
									TR-5 15066
									TB 15067
									TR-3-1.5 15068
			Total Number of Containers					15	

Relinquished by (Sampler):
Signature Carry E. Ronan
Printed Name CARRY E. RONAN
Company T&R
Date 6/15/98 Time 16:00

Received by:
Signature Peter T. Cusack
Printed Name T&R
Company
Date 6/15/98 Time 16:00

Relinquished by:
Signature Peter T. Cusack
Printed Name T&R
Company
Date 6/16/98 Time 15:40

Method of Shipment

Received by (Lab):
Signature
Printed Name
Lab
Date 6/17/98 Time 11:00

Lab Comments

SDL

Remarks:
- Pls. Filter H_2O for metals
- Fax Results to Carrie Austin @ (925) 253-4985
- Results by Friday afternoon

* (could not get enough H_2O from wells for all analyses, but * marked what we had originally planned for)

K PRIME, INC.

CHANGE ORDER

CONSULTING ANALYTICAL CHEMISTS 3621 Westwind Blvd. Santa Rosa CA 95403 PHONE: 707.527.7574 FAX: 707 527.7879

Client/Project ID	Address/Phone: 2 Theatre Square #216	ANALYSES	KPI Project No. 9813
Treadwell & Rollo	Orinda CA 94563 925.253.4980/4985		
Project Location	Client Project No.		
431 San Pablo Ave	1522.02		
Contact	Sampler (Signature)		
Carrie Austin	Cary Ronan		

Sample Identification	Lab Sample No.	Date	Time	Type of Sample	No. of Containers	OTHER	TPH-G/BTEX	MTBE								Turn-around	Remarks
TR-3-1.5	15068	15-Jun-98		SOIL	1		√	√								Friday	Add TPH-G/BTEX/MTBE
TR-2-7.5	15049	14-Jun-98		SOIL	1		√	√								Friday	Add TPH-G/BTEX/MTBE
TR-1-11.5	15047	14-Jun-98		SOIL	1		√	√								Friday	Add TPH-G/BTEX/MTBE
TR-4-8.5	15051	14-Jun-98		SOIL	1	*										Friday	Identify Asphalt
END of LIST																	

Authorized by: (Signature) Carrie Austin	Date 23-Jun-98	Time 11:40	Approved by (Signature) Ginger Brinlee
Authorized by: (Signature)	Date	Time	Approved by: (Signature)
Authorized by: (Signature)	Date	Time	Approved by (Signature)

Comments: Additional analyses as noted. For asphalt, perform a visual inspection.

Comments: Date Time

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa, CA 95403
Phone: 707 527 7574
Fax: 707 527 7879

7/10/98

Ms. Carrie Austin
Treadwell & Rollo, Inc.
555 Montgomery St., Suite 1300
San Francisco, CA 94111

Dear Ms. Austin,

Following are quality control results associated with samples recently submitted. Please note that all K Prime analytical laboratory data are produced in accordance with our Quality Assurance Manual, and meet standard quality control limits unless noted otherwise on laboratory reports. Please let us know if you need further information.

Thank you for this opportunity to be of service.

Yours truly,

Carla T. Kagel

Carla T. Kagel, Ph.D.
Quality Assurance Manager

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: OIL AND GREASE
REFERENCE: SM5520F
PROJECT: 9813-15045

SAMPLE TYPE: AQUEOUS
DATE ANALYZED: 6/22/98
UNITS: MG/L

I. METHOD BLANK

BLANK ID: BLANK B

COMPOUND NAME	REPORTING LIMIT	SAMPLE RESULT
OIL AND GREASE	0.5	ND

II. ACCURACY (BLANK SPIKE)

SPIKE ID: BLANK-MS

COMPOUND NAME	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
OIL AND GREASE	0.5	100	81.7	82

III. PRECISION (BS DUP)

DUPLICATE ID: BLANK-MSD

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
OIL AND GREASE	0.5	81.7	96.6	16.7

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: OIL AND GREASE **SAMPLE TYPE:** SOIL
REFERENCE: SM5520F **DATE ANALYZED:** 6/22/98
PROJECT: 9813-15046 **UNITS:** MG/KG

I. METHOD BLANK **BLANK ID:** BLANK A

COMPOUND NAME	REPORTING LIMIT	SAMPLE RESULT
OIL AND GREASE	50	ND

II. ACCURACY (BLANK SPIKE) **SPIKE ID:** BLANK-MS

COMPOUND NAME	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
OIL AND GREASE	50	200	215	108

III. PRECISION (BS DUP) **DUPLICATE ID:** BLANK-MSD

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
OIL AND GREASE	50	215	227	5.4

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: TPH-D
REFERENCE: EPA 8015M/CA DHS LUFT
PROJECT: 9418-15042

SAMPLE TYPE: SOIL
DATE ANALYZED: 6/18/98
UNITS: MG/KG

I. METHOD BLANK

BLANK ID: MBLK0618-01

COMPOUND NAME	REPORTING LIMIT	SAMPLE RESULT
TPH-D	10.0	ND

II. ACCURACY (MATRIX SPIKE)

SPIKE ID: 15042-MS

COMPOUND NAME	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
TPH-D	10.0	250	191	76.4

III. PRECISION (DUPLICATES)

DUPLICATE ID: 15042-MSD

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
TPH-D	10.0	191	200	4.6

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: TPH-D
REFERENCE: EPA 8015M/CA DHS LUFT
PROJECT: 9230-15014

SAMPLE TYPE: WATER
DATE ANALYZED: 6/22/98
UNITS: MG/L

I. METHOD BLANK

BLANK ID: MBLK0622-01

COMPOUND NAME	REPORTING LIMIT	SAMPLE RESULT
TPH-D	0.05	ND

II. ACCURACY (MATRIX SPIKE)

SPIKE ID: MBLK0622-MS

COMPOUND NAME	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
TPH-D	0.05	1.00	0.867	86.7

III. PRECISION (DUPLICATES)

DUPLICATE ID: MBLK0408-MSD

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
TPH-D	0.05	0.867	0.700	21.3

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: BTEX
REFERENCE: EPA 8020
PROJECT: 9230-15014

SAMPLE TYPE: WATER
DATE ANALYZED: 6/17/98
UNITS: UG/L

I. METHOD BLANK

BLANK ID: MBLK0617-01

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE RESULT
BENZENE	71-73-2	0.50	ND
TOLUENE	108-88-3	0.50	ND
ETHYLBENZENE	100-41-4	0.50	ND
M+P-XYLENE	1330-20-7	0.50	ND
O-XYLENE	95-47-6	0.50	ND
MTBE	1634-04-4	5.00	ND

II. ACCURACY (MATRIX SPIKE)

SPIKE ID: MBLK0617-MBTEX-MS

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
BENZENE	71-73-2	0.50	25.0	24.0	96
TOLUENE	108-88-3	0.50	25.0	24.9	100
ETHYLBENZENE	100-41-4	0.50	25.0	24.1	96
M+P-XYLENE	1330-20-7	0.50	50.0	48.6	97
O-XYLENE	95-47-6	0.50	25.0	24.1	96
MTBE	1634-04-4	5.00	25.0	25.4	102

III. PRECISION (DUPLICATES)

DUPLICATE ID: MBLK0617-MBTEX-MSD

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
BENZENE	71-73-2	0.50	24.0	23.8	0.8
TOLUENE	108-88-3	0.50	24.9	23.9	4.1
ETHYLBENZENE	100-41-4	0.50	24.1	23.6	2.1
M+P-XYLENE	1330-20-7	0.50	48.6	46.8	3.8
O-XYLENE	95-47-6	0.50	24.1	23.5	2.5
MTBE	1634-04-4	5.00	25.4	25.3	0.4

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: BTEX + OXYGENATES
REFERENCE: EPA 8260
PROJECT: 9230-15018

SAMPLE TYPE: WATER
DATE ANALYZED: 6/24/98
UNITS: UG/L

I. METHOD BLANK

BLANK ID: MBLK0624-02

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE RESULT
BENZENE	71-73-2	0.50	ND
TOLUENE	108-88-3	0.50	ND
ETHYLBENZENE	100-41-4	0.50	ND
M+P-XYLENE	1330-20-7	0.50	ND
O-XYLENE	95-47-6	0.50	ND
METHYL TERT-BUTYL ETHER	1634-04-4	5.00	ND
TERT-AMYL METHYL ETHER	994-05-8	5.00	ND
TERT-BUTYL EHTYL ETHER	637-92-3	5.00	ND
ISOPROPYL ETHER	108-20-3	5.00	ND
TERT-BUTANOL	76-65-0	50.0	ND

II. ACCURACY (MATRIX SPIKE)

SPIKE ID: MBLK0624-BTEX/OXY-MS

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
BENZENE	71-73-2	0.50	25.0	24.8	99
TOLUENE	108-88-3	0.50	25.0	25.1	100
ETHYLBENZENE	100-41-4	0.50	25.0	25.9	104
M+P-XYLENE	1330-20-7	0.50	50.0	52.1	104
O-XYLENE	95-47-6	0.50	25.0	25.9	104
METHYL TERT-BUTYL ETHER	1634-04-4	5.00	50.0	41.9	84
TERT-AMYL METHYL ETHER	994-05-8	5.00	25.0	19.4	78
TERT-BUTYL EHTYL ETHER	637-92-3	5.00	25.0	19.7	79
ISOPROPYL ETHER	108-20-3	5.00	25.0	21.4	86
TERT-BUTANOL	76-65-0	50.0	62.5	70.6	113

III. PRECISION (DUPLICATES)

DUPLICATE ID: MBLK0624-BTEX/OXY-MSD

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
BENZENE	71-73-2	0.50	24.8	24.5	1.2
TOLUENE	108-88-3	0.50	25.1	24.8	1.2
ETHYLBENZENE	100-41-4	0.50	25.9	26.0	0.4
M+P-XYLENE	1330-20-7	0.50	52.1	52.0	0.2
O-XYLENE	95-47-6	0.50	25.9	25.5	1.6
METHYL TERT-BUTYL ETHER	1634-04-4	5.00	41.9	42.7	1.9
TERT-AMYL METHYL ETHER	994-05-8	5.00	19.4	20.0	3.0
TERT-BUTYL EHTYL ETHER	637-92-3	5.00	19.7	20.3	3.0
ISOPROPYL ETHER	108-20-3	5.00	21.4	21.7	1.4
TERT-BUTANOL	76-65-0	50.0	70.6	68.1	3.6

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa, CA 95403
Phone: 707 527 7574
Fax: 707 527 7879

7/14/98

Ms. Carrie Austin
Treadwell & Rollo, Inc.
555 Montgomery St., Suite 1300
San Francisco, CA 94111

Dear Ms. Austin,

Following are the additional quality control results that you requested. I apologize for my oversight in pulling this information from our files. Please call me if you need additional information.

Thank you for this opportunity to be of service.

Yours truly,

Carla T. Kagel

Carla T. Kagel, Ph.D.
Quality Assurance Manager

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: BTEX + OXYGENATES
REFERENCE: EPA 8260
PROJECT: 9230-15075

SAMPLE TYPE: SOIL
DATE ANALYZED: 6/24/98
UNITS: UG/KG

I. METHOD BLANK

BLANK ID: MBLK0624-12.5X

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE RESULT
BENZENE	71-73-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M+P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND
METHYL TERT-BUTYL ETHER	1634-04-4	50.0	ND
TERT-AMYL METHYL ETHER	994-05-8	50.0	ND
TERT-BUTYL EHTYL ETHER	637-92-3	50.0	ND
ISOPROPYL ETHER	108-20-3	50.0	ND
TERT-BUTANOL	76-65-0	600	ND

II. ACCURACY (MATRIX SPIKE)

SPIKE ID: 15075-BTEX/OXY-MS

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
BENZENE	71-73-2	5.00	313	308	98
TOLUENE	108-88-3	5.00	313	308	98
ETHYLBENZENE	100-41-4	5.00	313	326	104
M+P-XYLENE	1330-20-7	5.00	625	649	104
O-XYLENE	95-47-6	5.00	313	327	104
METHYL TERT-BUTYL ETHER	1634-04-4	50.0	625	546	87
TERT-AMYL METHYL ETHER	994-05-8	50.0	313	258	82
TERT-BUTYL EHTYL ETHER	637-92-3	50.0	313	260	83
ISOPROPYL ETHER	108-20-3	50.0	313	277	88
TERT-BUTANOL	76-65-0	600	31,300	29,000	93

III. PRECISION (DUPLICATES)

DUPLICATE ID: 15075-BTEX/OXY-MSD

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
BENZENE	71-73-2	5.00	308	310	0.6
TOLUENE	108-88-3	5.00	308	299	3.0
ETHYLBENZENE	100-41-4	5.00	326	324	0.6
M+P-XYLENE	1330-20-7	5.00	649	641	1.2
O-XYLENE	95-47-6	5.00	327	321	1.9
METHYL TERT-BUTYL ETHER	1634-04-4	50.0	546	546	0.0
TERT-AMYL METHYL ETHER	994-05-8	50.0	258	254	1.6
TERT-BUTYL EHTYL ETHER	637-92-3	50.0	260	253	2.7
ISOPROPYL ETHER	108-20-3	50.0	277	271	2.2
TERT-BUTANOL	76-65-0	600	29,000	28,300	2.4

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: TPH-G
REFERENCE: EPA 8015M/CA DHS LUFT
PROJECT: 9230-15018

SAMPLE TYPE: WATER
DATE ANALYZED: 6/17-19/9
UNITS: MG/L

I. METHOD BLANK

BLANK ID: MBLK0617

COMPOUND NAME	REPORTING LIMIT	SAMPLE RESULT
TPH-G	0.05	ND

II. ACCURACY (BLANK SPIKE)

SPIKE ID: MBLK0617-TPHG

COMPOUND NAME	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
TPH-G	0.05	0.500	0.478	96

III. PRECISION (DUPLICATES)

DUPLICATE ID: MBLK0619-TPHG-DUP

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
TPH-G	0.05	0.478	0.453	5.4

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: TPH-G **SAMPLE TYPE:** SOIL
REFERENCE: EPA 8015M/CA DHS LUFT **DATE ANALYZED:** 6/12/98
PROJECT: 9809 **UNITS:** MG/KG

I. METHOD BLANK **BLANK ID:** MBLK0612

COMPOUND NAME	REPORTING LIMIT	SAMPLE RESULT
TPH-G	1.00	ND

II. ACCURACY (BLANK SPIKE) **SPIKE ID:** MBLK0612-TPHG-MS

COMPOUND NAME	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
TPH-G	1.00	6.25	6.26	100

III. PRECISION (DUPLICATES) **DUPLICATE ID:** MBLK0612-TPHG-MSD

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
TPH-G	1.00	6.26	6.03	3.7

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa, CA 95403
Phone: 707 527 7574
Fax: 707 527 7879

7/15/98

Ms. Carrie Austin
Treadwell & Rollo, Inc.
555 Montgomery St., Suite 1300
San Francisco, CA 94111

Dear Ms. Austin,

Here is an explanation of the quality control data that you received in response to your two inquiries.

The TPH-G analyses for samples 15050, 15051, and 15068 were performed 6/17/98 by Method 8015, and the results for laboratory control samples preceding (6/12) and following (6/17) your samples were provided in my earlier submittals. We were not requested to perform project-specific MS/MSD analyses, so QC results for laboratory control samples were provided.

TPH-G analyses for samples 15047 and 15049 were performed 6/24/98 by Method 8260 in response to your change order of 6/23/98. Laboratory control results for TPH-G compounds (BTEX and oxygenates) for a laboratory control sample and a MS/MSD soil sample (from a different project) were provided for Method 8260 and show excellent precision and accuracy. Since this analysis is by GC/MS, the same detector is used to provide the TPH-G result and the BTEX/Oxygenate results, so the QC results for BTEX/Oxygenates are applicable to TPH-G.

Analysis of BTEX/MTBE for sample 15068 was performed on 6/17/98 by Method 8020, and quality control results were reported with my original submittal.

I have attached copies of the quality control results with this fax, and I have marked on each page your sample numbers associated with this QC. Please call me if you have any questions.

Thank you for this opportunity to be of service.

Yours truly,

Carla T. Kagel

Carla T. Kagel, Ph.D.
Quality Assurance Manager

This is the QC set prior to analyzing 15050, 15051, & 15068

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: TPH-G
REFERENCE: EPA 8015M/CA DHS LUFT
PROJECT: 9809

SAMPLE TYPE: SOIL
DATE ANALYZED: 6/12/98
UNITS: MG/KG

I. METHOD BLANK

BLANK ID: MBLK0612

COMPOUND NAME	REPORTING LIMIT	SAMPLE RESULT
TPH-G	1.00	ND

II. ACCURACY (BLANK SPIKE)

SPIKE ID: MBLK0612-TPHG-MS

COMPOUND NAME	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
TPH-G	1.00	6.25	6.26	100

III. PRECISION (DUPLICATES)

DUPLICATE ID: MBLK0612-TPHG-MSD

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
TPH-G	1.00	6.26	6.03	3.7

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

This is the QC set following 15050, 15051 & 15068

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: TPH-G
REFERENCE: EPA 8015M/CA DHS LUFT
PROJECT: 9230-15018

SAMPLE TYPE: WATER
DATE ANALYZED: 6/17-19/98
UNITS: MG/L

I. METHOD BLANK

BLANK ID: MBLK0617

COMPOUND NAME	REPORTING LIMIT	SAMPLE RESULT
TPH-G	0.05	ND

II. ACCURACY (BLANK SPIKE)

SPIKE ID: MBLK0617-TPHG

COMPOUND NAME	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
TPH-G	0.05	0.500	0.478	96

III. PRECISION (DUPLICATES)

DUPLICATE ID: MBLK0619-TPHG-DUP

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
TPH-G	0.05	0.478	0.453	5.4

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

This is lab control sample for BTEX/OXY/TPHg by 8260-
Applicable to 15047 & 15049-

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: BTEX + OXYGENATES
REFERENCE: EPA 8260
PROJECT: 9230-15018

SAMPLE TYPE: WATER
DATE ANALYZED: 6/24/98
UNITS: UG/L

I. METHOD BLANK

BLANK ID: MBLK0624-02

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE RESULT
BENZENE	71-73-2	0.50	ND
TOLUENE	108-88-3	0.50	ND
ETHYLBENZENE	100-41-4	0.50	ND
M+P-XYLENE	1330-20-7	0.50	ND
O-XYLENE	95-47-6	0.50	ND
METHYL TERT-BUTYL ETHER	1634-04-4	5.00	ND
TERT-AMYL METHYL ETHER	994-05-8	5.00	ND
TERT-BUTYL EHTYL ETHER	637-92-3	5.00	ND
ISOPROPYL ETHER	108-20-3	5.00	ND
TERT-BUTANOL	76-65-0	50.0	ND

II. ACCURACY (MATRIX SPIKE)

SPIKE ID: MBLK0624-BTEX/OXY-MS

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
BENZENE	71-73-2	0.50	25.0	24.8	99
TOLUENE	108-88-3	0.50	25.0	25.1	100
ETHYLBENZENE	100-41-4	0.50	25.0	25.9	104
M+P-XYLENE	1330-20-7	0.50	50.0	52.1	104
O-XYLENE	95-47-6	0.50	25.0	25.9	104
METHYL TERT-BUTYL ETHER	1634-04-4	5.00	50.0	41.9	84
TERT-AMYL METHYL ETHER	994-05-8	5.00	25.0	19.4	78
TERT-BUTYL EHTYL ETHER	637-92-3	5.00	25.0	19.7	79
ISOPROPYL ETHER	108-20-3	5.00	25.0	21.4	86
TERT-BUTANOL	76-65-0	50.0	62.5	70.6	113

III. PRECISION (DUPLICATES)

DUPLICATE ID: MBLK0624-BTEX/OXY-MSD

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
BENZENE	71-73-2	0.50	24.8	24.5	1.2
TOLUENE	108-88-3	0.50	25.1	24.8	1.2
ETHYLBENZENE	100-41-4	0.50	25.9	26.0	0.4
M+P-XYLENE	1330-20-7	0.50	52.1	52.0	0.2
O-XYLENE	95-47-6	0.50	25.9	25.5	1.6
METHYL TERT-BUTYL ETHER	1634-04-4	5.00	41.9	42.7	1.9
TERT-AMYL METHYL ETHER	994-05-8	5.00	19.4	20.0	3.0
TERT-BUTYL EHTYL ETHER	637-92-3	5.00	19.7	20.3	3.0
ISOPROPYL ETHER	108-20-3	5.00	21.4	21.7	1.4
TERT-BUTANOL	76-65-0	50.0	70.6	68.1	3.6

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

This is applicable to 15047 & 15049 and includes BTEX/OXY/TPHG
(Project specific QC for a different project)

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: BTEX + OXYGENATES
REFERENCE: EPA 8260
PROJECT: 9230-15075

SAMPLE TYPE: SOIL
DATE ANALYZED: 6/24/98
UNITS: UG/KG

I. METHOD BLANK

BLANK ID: MBLK0624-12.5X

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE RESULT
BENZENE	71-73-2	5.00	ND
TOLUENE	108-88-3	5.00	ND
ETHYLBENZENE	100-41-4	5.00	ND
M+P-XYLENE	1330-20-7	5.00	ND
O-XYLENE	95-47-6	5.00	ND
METHYL TERT-BUTYL ETHER	1634-04-4	50.0	ND
TERT-AMYL METHYL ETHER	994-05-8	50.0	ND
TERT-BUTYL EHTYL ETHER	637-92-3	50.0	ND
ISOPROPYL ETHER	108-20-3	50.0	ND
TERT-BUTANOL	76-65-0	600	ND

II. ACCURACY (MATRIX SPIKE)

SPIKE ID: 15075-BTEX/OXY-MS

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
BENZENE	71-73-2	5.00	313	308	98
TOLUENE	108-88-3	5.00	313	308	98
ETHYLBENZENE	100-41-4	5.00	313	326	104
M+P-XYLENE	1330-20-7	5.00	625	649	104
O-XYLENE	95-47-6	5.00	313	327	104
METHYL TERT-BUTYL ETHER	1634-04-4	50.0	625	546	87
TERT-AMYL METHYL ETHER	994-05-8	50.0	313	258	82
TERT-BUTYL EHTYL ETHER	637-92-3	50.0	313	260	83
ISOPROPYL ETHER	108-20-3	50.0	313	277	88
TERT-BUTANOL	76-65-0	600	31,300	29,000	93

III. PRECISION (DUPLICATES)

DUPLICATE ID: 15075-BTEX/OXY-MSD

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
BENZENE	71-73-2	5.00	308	310	0.6
TOLUENE	108-88-3	5.00	308	299	3.0
ETHYLBENZENE	100-41-4	5.00	326	324	0.6
M+P-XYLENE	1330-20-7	5.00	649	641	1.2
O-XYLENE	95-47-6	5.00	327	321	1.9
METHYL TERT-BUTYL ETHER	1634-04-4	50.0	546	546	0.0
TERT-AMYL METHYL ETHER	994-05-8	50.0	258	254	1.6
TERT-BUTYL EHTYL ETHER	637-92-3	50.0	260	253	2.7
ISOPROPYL ETHER	108-20-3	50.0	277	271	2.2
TERT-BUTANOL	76-65-0	600	29,000	28,300	2.4

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

This is lab control data for 15068 BTEX/MTBE

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: BTEX
REFERENCE: EPA 8020
PROJECT: 9230-15014

SAMPLE TYPE: WATER
DATE ANALYZED: 6/17/98
UNITS: UG/L

I. METHOD BLANK

BLANK ID: MBLK0617-01

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE RESULT
BENZENE	71-73-2	0.50	ND
TOLUENE	108-88-3	0.50	ND
ETHYLBENZENE	100-41-4	0.50	ND
M+P-XYLENE	1330-20-7	0.50	ND
O-XYLENE	95-47-6	0.50	ND
MTBE	1634-04-4	5.00	ND

II. ACCURACY (MATRIX SPIKE)

SPIKE ID: MBLK0617-MBTEX-MS

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
BENZENE	71-73-2	0.50	25.0	24.0	96
TOLUENE	108-88-3	0.50	25.0	24.9	100
ETHYLBENZENE	100-41-4	0.50	25.0	24.1	96
M+P-XYLENE	1330-20-7	0.50	50.0	48.6	97
O-XYLENE	95-47-6	0.50	25.0	24.1	96
MTBE	1634-04-4	5.00	25.0	25.4	102

III. PRECISION (DUPLICATES)

DUPLICATE ID: MBLK0617-MBTEX-MSD

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
BENZENE	71-73-2	0.50	24.0	23.8	0.8
TOLUENE	108-88-3	0.50	24.9	23.9	4.1
ETHYLBENZENE	100-41-4	0.50	24.1	23.6	2.1
M+P-XYLENE	1330-20-7	0.50	48.6	46.8	3.8
O-XYLENE	95-47-6	0.50	24.1	23.5	2.5
MTBE	1634-04-4	5.00	25.4	25.3	0.4

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

LCS data for TPHg - 15068

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: TPH-G
REFERENCE: EPA 8015M/CA DHS LUFT
PROJECT: 9230-15018

SAMPLE TYPE: WATER
DATE ANALYZED: 6/17-19/9
UNITS: MG/L

I. METHOD BLANK

BLANK ID: MBLK0617

COMPOUND NAME	REPORTING LIMIT	SAMPLE RESULT
TPH-G	0.05	ND

II. ACCURACY (BLANK SPIKE)

SPIKE ID: MBLK0617-TPHG

COMPOUND NAME	REPORTING LIMIT	SPIKE ADDED	SPIKE RESULT	% RECOVERY
TPH-G	0.05	0.500	0.478	96

III. PRECISION (DUPLICATES)

DUPLICATE ID: MBLK0619-TPHG-DUP

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)
TPH-G	0.05	0.478	0.453	5.4

NOTES:

ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE