

Harding Lawson Associates



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February 11, 1994

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Ms. Madhulla Logan
Alameda County Health Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

**Quarterly Groundwater Monitoring, Aerial Photograph Review,
Agency File Search, and Degradation Products Research
James River Corporation
San Leandro, California**

Dear Ms. Logan:

This report presents the results of the quarterly groundwater monitoring program, aerial photograph review, and agency file search for the James River Corporation facility at 2101 Williams Street, San Leandro, California. The work was authorized by the James River Corporation, and was performed in accordance with Harding Lawson Associates' (HLA) letter proposal dated November 1, 1993.

QUARTERLY GROUNDWATER MONITORING

Field Investigation

Currently, 10 monitoring wells are onsite (Plate 1); on November 22, 1993, groundwater samples were collected from 8 of the wells for chemical analysis. Monitoring Wells W-3, W-5, W-6, W-7, W-8, W-9, W-10, and B-1, which range in total depth from 17 to 48 feet, were sampled.

All sampling equipment was steam cleaned before sampling activities began. The equipment was then rinsed with deionized water and placed in clean containers to minimize the possibility of cross-contamination.

Before the eight wells were purged and sampled, water-level measurements were obtained using a steel survey tape graduated in hundredths of a foot. Water-level measurements were also obtained for the two wells (W-1 and W-4) that were not sampled. The measurements were repeated twice, or until consecutive measurements differed by less than 0.01 foot. After each water level was recorded, an observation sample was collected from the well and its visual quality was evaluated. Each well padlock was then replaced with a combination lock, and the combination given to Mr. James Yu of James River Corporation.

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Each well was purged of at least three well volumes of water using a clean centrifugal pump. Ten well volumes were purged from Well W-7, because water had been observed in the below grade traffic box; however, standing water was not present the day of sampling. Temperature, specific conductance, pH, and turbidity were monitored during purging, and samples were collected after the readings had stabilized (Table 1). Copies of HLA's groundwater sampling forms are attached.

After purging, the groundwater sample was collected from each well using a clean stainless steel bailer. To minimize the potential for cross-contamination, a new dropline and a different bailer were used for each well. Each sample was decanted into three 40-milliliter volatile organic analysis (VOA) bottles. Samples were assigned sequential numbers unrelated to the well of origin (to maintain sample anonymity during laboratory analysis), stored on ice, and delivered with a chain of custody record to Anametrix Laboratories (Anametrix), San Jose, California.

A trip blank was submitted to the laboratory as a quality assurance (QA) check. The purpose of the trip blank was to identify the presence of artifact laboratory chemicals in the sample bottles. This sample was entered on the chain of custody form and delivered to the laboratory with the cooler containing the well samples. A copy of the chain of custody record is attached.

Groundwater Gradient and Flow Direction

Potentiometric surface elevations from the November 1993 water-level survey are presented in Table 2. The direction of groundwater flow is toward the southwest at an approximate gradient of 0.001 to 0.005 ft/ft (Plate 2). Groundwater flow direction and gradient data are consistent with such data from previous monitoring periods.

Chemical Analyses

Samples collected on November 22, 1993, were submitted to Anametrix, which is state certified to perform the requested analyses. The samples were analyzed using EPA Test Method 8240.

Table 3 compares November and February 1993 analytical data. Chemical concentrations reported in November were in most cases lower than the concentrations detected in February 1993, especially in Wells W-10, W-3, and W-5. In the February 1993 results for Well W-10, acetone and MIBK concentrations were reported at 420,000 and 18,000 $\mu\text{g/l}$, respectively; the concentrations of these chemicals in the November sample were 210,000 and 6,000 $\mu\text{g/l}$. In Well W-3, the concentrations of TCE and PCE decreased from 190 and 250 $\mu\text{g/l}$, respectively, in February, to nondetect in November. The results for the other two chemicals historically detected in this well, vinyl chloride and cis-1,2 DCE, remained unchanged. Somewhat smaller decreases in chemical concentrations were noted in Well W-5; cis-1,2 DCE decreased from 2,500 to 1,000 $\mu\text{g/l}$, PCE decreased from 3,600 to 2,100 $\mu\text{g/l}$, and TCE decreased from 740 to 500 $\mu\text{g/l}$.

The concentrations of chemicals detected in groundwater samples from the remaining five wells, W-6, W-7, W-8, W-9, and B-1, were similar in November to the concentrations detected in February. In summary, chemical concentrations detected in the November samples were generally lower than concentrations detected in the February samples. A copy of the laboratory report is attached.

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DEGRADATION PRODUCTS

During a meeting with Alameda County Department of Environmental Health (ACDEH) on October 12, 1993, it was agreed that HLA would provide information on the degradation of chemicals formerly stored in five underground storage tanks (USTs) at the San Leandro facility. (The tanks were removed in June 1989.) The principal reason for this analysis is to document that the compounds formerly stored in the USTs do not degrade or decompose to chlorinated hydrocarbons, which have been detected in groundwater at the facility. HLA believes that the chlorinated compounds are from an offsite source and have migrated to the facility from a hydraulically upgradient area.

The USTs contained either alcohols or acetates (carboxylic esters) that included the following specific chemicals:

- Ethyl Acetate ($\text{CH}_3\text{C}_2\text{OH}$)
- Butyl Acetate ($\text{CH}_3\text{COOCH}_2[\text{CH}_2]_2\text{CH}_3$)
- Isopropyl Acetate ($\text{CH}_3\text{COOCH}[\text{CH}_3]_2$)
- N-propyl Acetate ($\text{CH}_3\text{COOCH}_2\text{CH}_2\text{CH}_3$)
- Ethyl Alcohol ($\text{CH}_3\text{C}_2\text{OH}$)
- N-propyl Alcohol ($\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$)

Acetates break down readily to acetic acid (CH_3COOH), carbon dioxide, and water. These compounds have relatively short half-lives in soil and groundwater and do not produce any intermediate chemical products. These compounds are also a primary source of carbon for microbes and are easily biodegraded. When HLA performed groundwater monitoring at the facility during the mid-1980s, acetate degradation could easily be traced in groundwater by monitoring pH, which was slightly depressed as the acetates degraded to acetic acid. The groundwater pH returned to normal within a short distance of the USTs. Current groundwater monitoring has not detected any decrease in pH or acetate compounds.

The alcohols that were stored in the USTs are totally miscible in water and, like the acetates, are readily degraded and thus have short half-lives in the environment. Alcohols break down readily to carbon dioxide and water with no intermediate daughter products. These compounds are also readily biodegraded in the environment by naturally occurring microbes.

The ketones MIBK and acetone have been detected in water from Well W-10, although these compounds are not known to have been stored in the USTs. Acetone is a common laboratory contaminant reported on laboratory data sheets; however, the acetone concentrations detected in this well are higher than can normally be attributed to laboratory contamination alone. Both MIBK and acetone readily degrade to carbon dioxide and water with no intermediate degradation

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products. MIBK and acetone are used as solvents for resins and are associated with the formulation of acetates.

In summary, the compounds formerly stored in the USTs readily degrade in the environment to water and carbon dioxide. It is impossible for any of the acetates, alcohols, or ketones to degrade into chlorinated hydrocarbons that have been detected in groundwater beneath the facility. Given these facts and that chlorinated hydrocarbon concentrations are higher at the upgradient boundary of the facility than at the downgradient monitoring point, it is apparent that the chlorinated hydrocarbons originate from an offsite area. The existence of an upgradient source is also supported by the recent regional investigation performed under the direction of the California Environmental Protection Agency.

AERIAL PHOTOGRAPH REVIEW

Historical and current land uses of the James River facility and the adjacent area were reviewed by examining aerial photographs at Pacific Aerial Surveys, Oakland, California. Aerial photographs of the area taken in 1947, 1953, 1957, 1959, 1963, 1966, 1968, 1969, 1971, 1973, 1975, 1977, 1979, 1981, 1983, 1986, 1988, 1990 and 1992 were reviewed. The photos are described below:

- **1947.** The James River facility site is part of a large agricultural parcel. Surrounding areas are also primarily agricultural with some residential and light commercial development. A large industrial facility is present northeast of the site at the intersection of the railroad tracks and Williams Street. An industrial plant approximately 1 mile northwest of the site and just north of the future Oyster Bay Regional Park consists of several buildings, one smoke stack, and three large aboveground tanks.
- **1953.** The existing James River building has been constructed. A large industrial facility is present on the property that borders the site to the east. The property northwest of the site across Williams Street contains two sheet metal buildings and a large unpaved parking lot. Bay fill has been emplaced northwest of the site to create Oyster Bay Regional Park.
- **1957.** There is no change to the site. The lot across Williams Street appears to be used as a truck dispatch yard, as many truck cabs and trailers are present in the parking lot. A smaller building with parking lot has been constructed south of the main James River building; south of this, property remains plowed cropland. Southeast of the main James River building, on the eastern edge of the plowed field, eight vertical aboveground tanks are present. Approximately one block east of the site, a large industrial building has been constructed with one aboveground tank on the property.
- **1959.** An addition has been built onto the south side of the main James River building. The Dodge plant has been constructed north of the site (east of the railroad tracks), and contains four aboveground tanks. The parking area across Williams Street from the site

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appears to have a limited number of parked trucks, with approximately 20 cabs and over 40 trailers present. A large industrial building with one aboveground storage tank has been constructed northwest of the site.

- **1963.** There have been no changes to the James River building. Residences and a golf course have been constructed south of the site.
- **1966.** The site is unchanged. A large aboveground tank has been placed southeast of the site at the eastern edge of the field. The industrial plant north of Oyster Bay Regional Park has been replaced with a water treatment plant.
- **1968.** Additions have been made to the south and east sides of the main James River building. The parking lot across Williams Street from the site has been replaced with two commercial buildings and a smaller paved parking lot. No parked trucks are present. The aboveground tank on the property one block east of the site has been removed.
- **1969.** The site and adjacent properties have not changed.
- **1971.** The plowed field south of the site has been paved, two buildings have been constructed, and six additional vertical tanks have been added along the eastern property boundary.
- **1973.** The James River facility and adjacent properties have not changed.
- **1975.** An addition had been built on the east side of the main James River building. The parking lot south of the building is being used for heavy vehicle storage.
- **1977.** The parking lot south of the main James River building is empty. The property is being graded for construction.
- **1979.** A large commercial facility has been constructed on the property south of the site. One of the vertical tanks east of the site has been replaced with a larger one.
- **1981 and 1983.** There are no changes to the site or adjacent properties.
- **1986.** The Dodge plant has been enlarged.
- **1988.** An addition has been built onto the south side of the main James River building.
- **1990 and 1992.** There have been no changes to the site or adjacent properties.

Aerial photograph review revealed that development since 1947 has principally been industrial within a quarter mile of the site and commercial, industrial and residential within 1 mile of the site.

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AGENCY FILE REVIEW

At HLA's request, Environmental Data Resources, Inc. (EDR) prepared a list of properties within a specified distance of the site that have been listed by regulatory agencies as having (1) documented hazardous materials problems and (2) documentation of hazardous material use, storage, or generation or hazardous waste transport or disposal. HLA specifically attempted to identify sites that have known chlorinated hydrocarbon contamination that are hydraulically upgradient that may have impacted the James River facility. The EDR report is attached.

Given the industrial nature of the area, it is not surprising that within the nominal search radius, approximately 220 sites were identified on one or more of the agency lists. Several upgradient properties east of the James River facility have been identified as potential sources of chlorinated hydrocarbon contamination. Results of a December 1993 investigation into sources of chlorinated and nonchlorinated hydrocarbons has recently been released to the public. The investigation was sponsored by the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). DTSC conducted investigations at several hazardous waste sites in San Leandro confirming that a regional shallow groundwater problem is present. This investigation identified several major sources of chlorinated hydrocarbons that have led to significant groundwater contamination in San Leandro.

One of these major sites is the property at 1964 Williams Street. The federal EPA conducted a preliminary assessment on this site and initially indicated that it was a "High Priority" for further investigation based on extremely high concentrations of chlorinated hydrocarbons detected in soil and groundwater. The federal EPA reversed its stance several months later and indicated that no further action was required. Based on the existing data, DTSC has listed the property as one of the five major contributors of chlorinated hydrocarbons to groundwater in San Leandro. The 1964 Williams Street site is upgradient and less than 1/2 mile east of the James River facility; up to 520,000 $\mu\text{g/l}$ TCE, 22,000 $\mu\text{g/l}$ 1,1,1-TCA, 92 $\mu\text{g/l}$ PCE, and 1,000 $\mu\text{g/l}$ 1,1-DCE have been detected in groundwater beneath the site.

CONCLUSIONS AND RECOMMENDATIONS

Results of quarterly groundwater sampling and analysis performed during November 1993, indicate that chlorinated hydrocarbons continue to be present in the shallow groundwater beneath the James River facility in San Leandro. However, the chemicals handled by James River, principally alcohols and acetates, degrade readily in nature and do not degrade to chlorinated hydrocarbons. Since monitoring began, concentrations of the chlorinated hydrocarbons have been higher at Well MW-5, located at the upgradient edge of the facility, than at Well MW-7, located at the downgradient property boundary. If the James River facility were a contributor of chlorinated hydrocarbons to the shallow groundwater system, concentrations of chlorinated hydrocarbons should be higher in a downgradient direction, not lower. A search of agency records has identified 1964 Williams Street as a major source of chlorinated hydrocarbons; this site is upgradient of the James River facility.

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On the basis of the data presented above, it is evident that the chlorinated hydrocarbons detected in the shallow groundwater at the James River San Leandro facility originated from an upgradient offsite source, possibly 1964 Williams Street. James River is committed to remediating soil and groundwater problems resulting from their activities; however, they should not be required to remediate groundwater containing chlorinated hydrocarbons that have migrated onto their facility from an offsite source.

This document was prepared for the sole use of the James River Corporation and the ACDEH, the only intended beneficiaries of our work. No other party may rely on the information contained in this report without prior written consent of HLA.

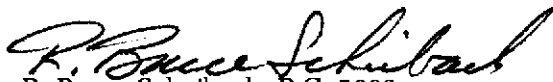
The next groundwater monitoring event is scheduled to take place in February 1994. If you have any questions regarding this report, please contact the undersigned at (415) 883-0112.

Very truly yours,

HARDING LAWSON ASSOCIATES



Richard J. Hutton
Senior Hydrologist



R. Bruce Scheibach, R.G. 5062
Principal Hydrogeologist

cc: Mr. Dan Wegleitner, James River Corporation

Attachments: Table 1: Field Parameter Measurements of Water Purged from Wells
Before Sampling
Table 2: Water-Level Measurements
Table 3: Analytical Results for Groundwater Samples
Plate 1: Area Map
Plate 2: Groundwater Level and Contour Map
Plate 3: Groundwater Quality Analytical Results, November 22, 1993
Groundwater Sampling Forms
Chain of Custody Form
Anametrix Analytical Data
EDR - Radius Map™ Report

RJH/RBS:gj/gj32428-JR

Table 1. Field Parameter Measurements of Water Purged from Wells Before Sampling

James River Corporation
San Leandro, California
November 22, 1993

Well No.	Gallons Purged	pH	Specific Conductance* (μ mhos/cm)	Temperature (° C)	Turbidity (NTU)
B-1	0	6.6	336	19.0	17.1
	30	6.6	336	19.0	----
	70	6.7	504	19.0	11.7
W-3	0	5.9	588	19.0	62.7
	25	6.1	565	18.5	----
	48	6.1	560	19.0	28.0
W-5	0	6.7	526	19.0	>1000
	5	6.6	528	20.0	----
	10	6.6	539	20.0	>1000
W-6	0	6.7	536	18.0	>1000
	6	6.7	504	19.0	----
	11	6.7	500	19.5	>1000
W-7	0	6.4	538	19.0	16.7
	70	6.5	515	19.0	----
	110	6.5	515	19.0	----
	153	6.5	515	19.0	38.9
W-8	0	6.6	459	19.0	>1000
	20	6.4	526	19.0	61.6
	43	6.3	523	20.0	39.1
W-9	0	7.5	559	18.0	39.0
	18	7.4	550	20.0	----
	37	7.4	550	20.0	22.7
W-10	0	6.5	570	18.0	71.7
	4	6.3	520	23.0	----
	8	6.3	520	23.0	33.6

* at 25° C
 μ mhos/cm Micromhos per centimeter
° C Degrees Celsius

Table 2. Water-Level Measurements

James River Corporation
San Leandro, California

Well Number	Date	Top of Well Casing Elevation (feet above MSL)	Depth to Water Below Top of Casing (feet)	Water Table Elevation (feet above MSL)
W-1	9-6-90	20.67	13.15	7.52
	12-27-90	20.67	12.67	8.00
	8-27-91	20.67	12.98	7.69
	11-19-91	20.67	13.03	7.64
	2-13-92	20.67	10.54	10.13
	5-22-92	20.67	11.94	8.73
	2-19-93	20.67	8.90	11.77
	11-22-93	20.67	12.31	8.36
W-3	9-6-90	20.80	13.37	7.43
	12-27-90	20.80	12.89	7.91
	8-27-91	20.80	13.00	7.80
	11-19-91	20.80	13.25	7.55
	2-13-92	20.80	10.84	9.96
	5-22-92	20.80	12.22	8.58
	2-19-93	20.80	9.30	11.50
	11-22-93	20.80	12.47	8.33
W-4	9-6-90	21.00	13.50	7.50
	12-27-90	21.00	13.07	7.93
	8-27-91	21.00	13.34	7.66
	11-19-91	21.00	13.35	7.65
	2-13-92	21.00	10.92	10.08
	5-22-92	21.00	12.33	8.67
	2-19-93	21.00	9.53	11.47
	11-22-93	21.00	12.64	8.36
W-5	9-6-90	21.64	14.22	7.42
	12-27-90	21.64	13.62	8.02
	8-27-91	21.64	14.03	7.61
	11-19-91	21.64	14.04	7.60
	2-13-92	21.64	12.68	8.96
	5-22-92	21.64	12.98	8.66
	2-19-93	21.64	9.92	11.72
	11-22-93	21.64	13.30	8.34

Table 2. Water-Level Measurements

James River Corporation
San Leandro, California
(Continued)

Well Number	Date	Top of Well Casing Elevation (feet above MSL)	Depth to Water Below Top of Casing (feet)	Water Table Elevation (feet above MSL)
W-6	9-6-90	21.05	13.53	7.52
	12-27-90	21.05	13.04	8.01
	8-27-91	21.05	13.34	7.71
	11-19-91	21.05	13.37	7.68
	2-13-92	21.05	10.88	10.17
	5-22-92	21.05	12.30	8.75
	2-19-93	21.05	9.26	11.79
	11-22-93	21.05	12.64	8.41
W-7	9-6-90	20.41	13.47	6.94
	12-27-90	20.41	13.08	7.33
	8-27-91	20.41	13.32	7.09
	11-19-91	20.41	13.34	7.07
	2-13-92	20.41	11.28	9.13
	5-22-92	20.41	12.36	8.05
	2-19-93	20.41	9.98	10.43
	11-22-93	20.41	12.62	7.79
W-8	9-6-90	20.50	12.98	7.52
	12-27-90	20.50	12.58	7.92
	8-27-91	20.50	12.78	7.72
	11-19-91	20.50	12.81	7.69
	2-13-92	20.50	10.60	9.90
	5-22-92	20.50	11.80	8.70
	2-19-93	20.50	9.12	11.38
	11-22-93	20.50	12.07	8.43
W-9	9-6-90	20.16	13.00	7.16
	12-27-90	20.16	12.56	7.60
	8-27-91	20.16	12.84	7.32
	11-19-91	20.16	12.84	7.32
	2-13-92	20.16	10.78	9.38
	5-22-92	20.16	11.90	8.26
	2-19-93	20.16	9.38	10.78
	11-22-93	20.16	12.11	8.05

Table 2. Water-Level Measurements

James River Corporation
San Leandro, California
(Continued)

Well Number	Date	Top of Well Casing Elevation (feet above MSL)	Depth to Water Below Top of Casing (feet)	Water Table Elevation (feet above MSL)
W-10	9-6-90	20.22	----	----
	12-27-90	20.22	----	----
	8-27-91	20.22	----	----
	11-19-91	20.22	13.58	6.64
	2-13-92	20.22	11.06	9.16
	5-22-92	20.22	12.58	7.64
	2-19-93	20.22	9.60	10.62
	11-22-93	20.22	12.87	7.35
B-1	9-6-90	20.59	13.12	7.47
	12-27-90	20.59	12.68	7.91
	8-27-91	20.59	12.95	7.64
	11-19-91	20.59	12.95	7.64
	2-13-92	20.59	10.72	9.87
	5-22-92	20.59	11.91	8.68
	2-19-93	20.59	9.04	11.55
	11-22-93	20.59	12.22	8.37

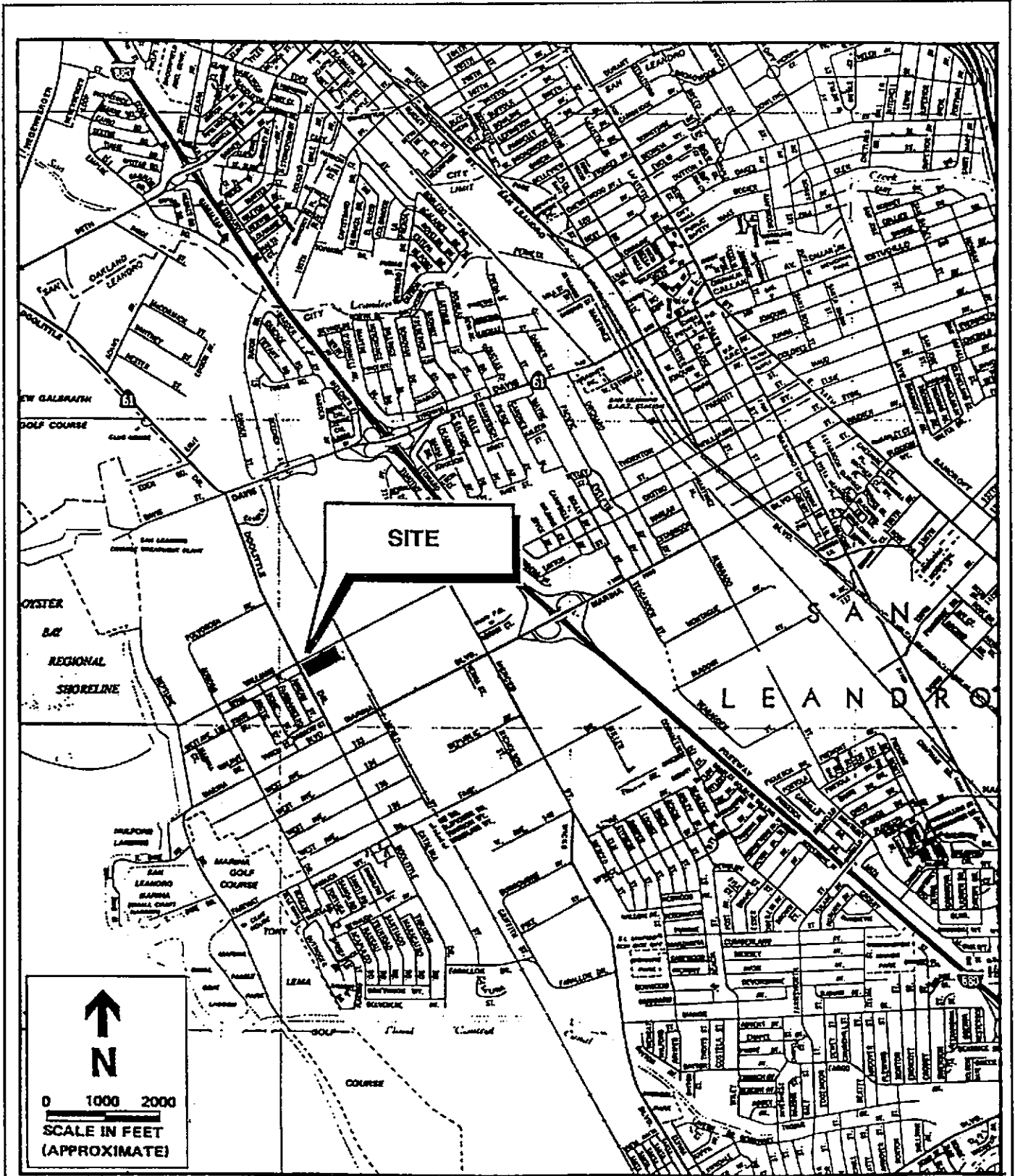
Data recorded on 11-22-93 were provided by Harding Lawson Associates, Novato, CA. Data recorded on all dates prior to 11-22-93 shown above were provided by Brown & Caldwell Consultants, Emeryville, CA.

Table 3: Analytical Results for Groundwater Samples

**James River Corporation
San Leandro, California
(Concentrations in ug/l)**

Well Name	Sample Date	Benzene	Ethylbenzene	Toluene	Xylenes	TCE	Vinyl Chloride	PCE	TCA	CIS-1,2 DCE	1,1 DCA	Acetone	MIBK
W-3	Feb-93	<1	<1	<1	<1	190	19	250	<1	24	<1	<10	<5
	Nov-93	<5	<5	<5	<5	<5	26	<5	<5	14	<5	<20	<10
W-5	Feb-93	<30	<30	<30	<30	740	190	3600	<30	2500	<30	NA	NA
	Nov-93	<50	<50	<50	<50	500	160	2100	<50	1000	<50	<200	<100
W-6	Feb-93	<5	<5	<5	<5	340	<5	520	5.1	<5	<5	NA	NA
	Nov-93	<10	<10	<10	<10	170	<10	280	<10	<10	<10	23	<20
W-7	Feb-93	<3	<3	<3	<3	200	51	270	4.9	66	<3	NA	NA
	Nov-93	<10	<10	<10	<10	160	<20	190	<10	15	<10	<40	<20
W-8	Feb-93	<1	<1	<1	<1	7.6	170	<1	<1	200	4.1	NA	NA
	Nov-93	<5	<5	<5	<5	3	130	<5	<5	150	3	NA	NA
W-9	Feb-93	<.05	<.05	<.05	<.05	99	<.05	22	16	1.8	3.3	NA	NA
	Nov-93	<5	<5	<5	<5	92	<5	11	5	<5*	3	<20	<10
W-10	Feb-93	<300	<300	3400	<300	<300	<300	<300	<300	<300	<300	420000	18000
	Nov-93	<5000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	210000	6000
B-1	Feb-93	<1	<1	<1	<1	<1	<1	3.4	<1	<1	<1	<10	<5
	Nov-93	<5	<5	<5	<5	<5	<5	3	<5	<5	<5	<20	<10

* 4 ug/l of 1,1-DCE detected in W-9 on Nov-93



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Engineering and
Environmental Services

Area Map
James River Corporation
2101 Williams Street
San Leandro, California

PLATE

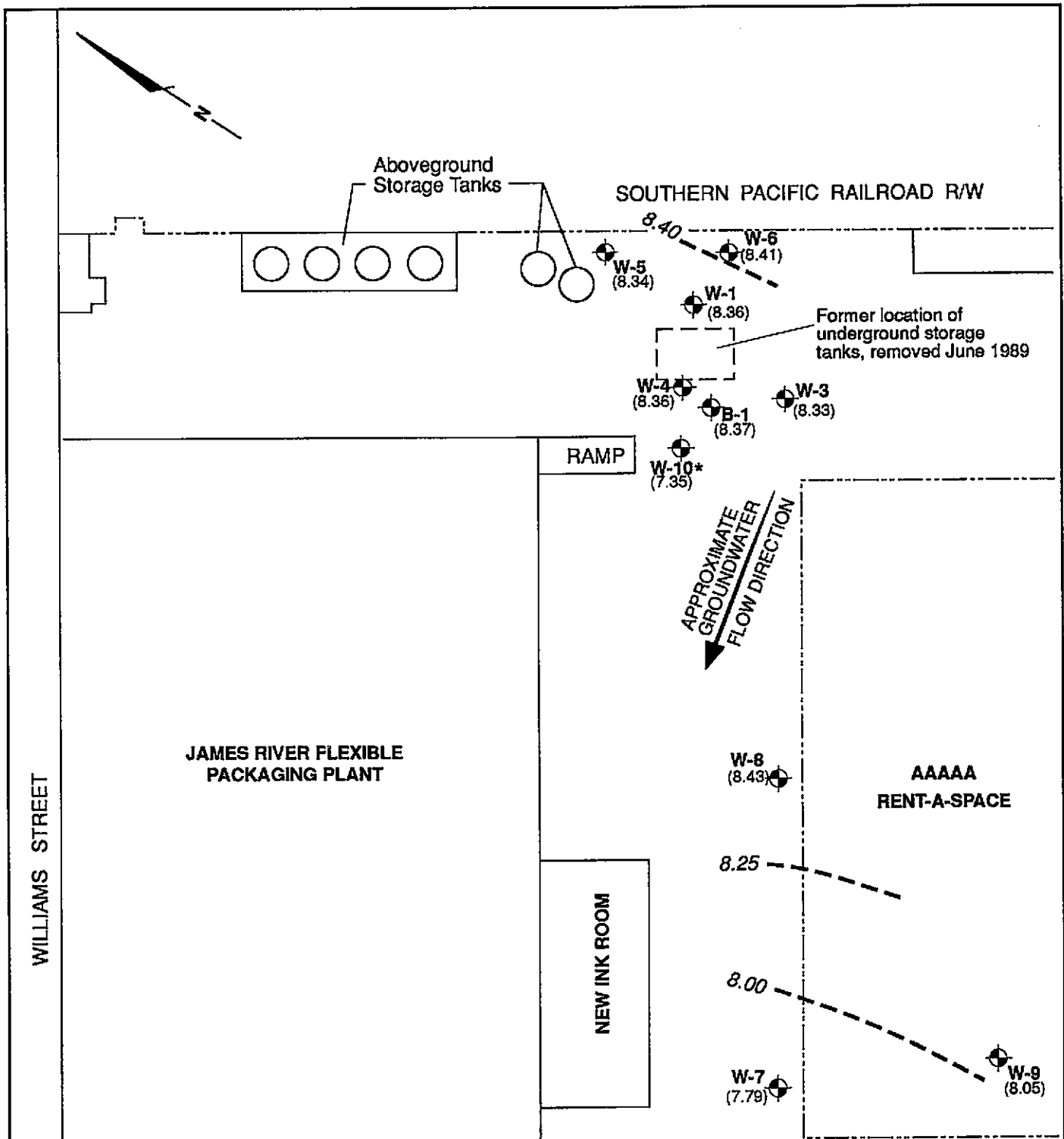
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JOB NUMBER
26560 1

APPROVED
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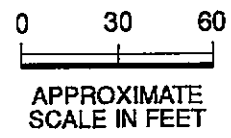
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1/94

REVISED DATE



EXPLANATION

- W-7 (7.79) Groundwater Elevation (in feet MSL) * Data Not Used in Contouring Measured November 22, 1993
- Property Line
- 8.00 Groundwater Potentiometric Contour (in feet MSL)



021194pg



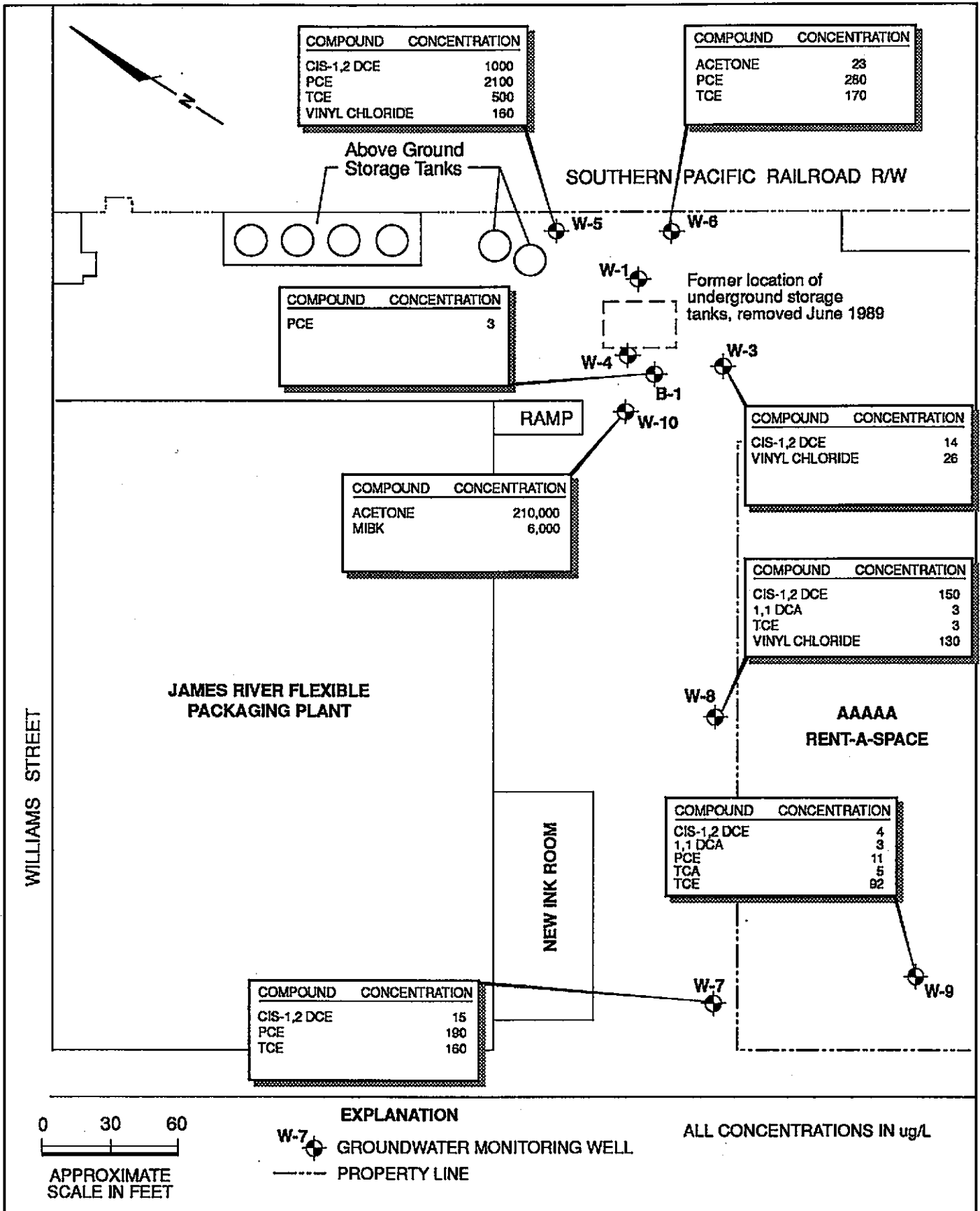
Harding Lawson Associates
Engineering and Environmental Services

Groundwater Level and Contour Map
James River Corporation
2101 Williams Street
San Leandro, California

PLATE

2

DRAWN DJPC	JOB NUMBER 26560 1	APPROVED <i>RLB</i>	DATE 2/94	REVISED DATE
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Groundwater Quality Analytical Results
November 22, 1993
James River Corporation
2101 Williams Street
San Leandro, California

PLATE

3

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
	26560 1	<i>RLB</i>	1/94	

GROUNDWATER SAMPLING FORMS



Harding Lawson Associates
Engineering and
Environmental Services

GROUND-WATER SAMPLING FORM

Job Name James River
Job Number 26560.1
Recorded by Rich Endra (Signature)

Well No. W-3
Well Type: Monitor Extraction Other
Well Material: PVC St. Steel Other
Date 11-22-93 Time 11:42
Sampled by RWE-SJK (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other
Total Depth of Casing (TD in feet BTOC): 33
Water Level Depth (WL in feet BTOC): 12.43
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other

PURGE METHOD

Bailer - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC) from _____ to _____

PURGE VOLUME CALCULATION:

$$\left(\frac{33}{\text{TD (feet)}} - \frac{12.43}{\text{WL (feet)}} \right) \times 4^2 \times 3 \times 0.0408 = 48 \text{ gallons}$$

Calculated Purge Volume

PURGE TIME

11:26 Start 11:36 Stop 11:42 Elapsed _____

PURGE RATE

Initial 5 gpm Final 5 gpm

ACTUAL PURGE VOLUME

48 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other <u>turb</u>
initial	6.9	525	19.0	63.7
22 - Gals.	6.1	500	18.5	
48 - "	6.1	500	19.0	78.0
meter #s	2987	4989	0	849

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor): clear - odor

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other Drain

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: SS
 Submersible Centrifugal Bladder; Pump No.: _____
 Same As Above Grab - Type: _____
 Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: 9311

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>1R04</u>	<u>3 WA</u>	<u>B240</u>	<u>-</u>	<u>Anametric</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.



Job Name James River

Job Number 26560-1

Recorded by Rich Erdman
(Signature)

Well No. W-5

Well Type: Monitor Extraction Other _____

Well Material: PVC St. Steel Other _____

Date 11-22-93 Time 12:53

Sampled by RWF - SJK
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
Total Depth of Casing (TD in feet BTOC): 33
Water Level Depth (WL in feet BTOC): 13.30
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

PURGE METHOD

Bailer - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)
from _____ to _____

PURGE VOLUME CALCULATION:

$$\left(\frac{33}{\text{TD (feet)}} - \frac{13.30}{\text{WL (feet)}} \right) \times \frac{2}{\text{D (inches)}}^2 \times \frac{3}{\text{\# Vols}} \times 0.0408 = \frac{10}{\text{Calculated Purge Volume}} \text{ gallons}$$

PURGE TIME

PURGE RATE

ACTUAL PURGE VOLUME

1243 Start 1248 Stop 5 mins Elapsed Initial 2 gpm Final 2 gpm 10 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other turb
initial	6.3	430	19.0	> 1000
5 - Vols.	6.6	480	20.0	
10 - "	6.6	490	20.0	> 1000
meter nos.	2862	4989		849

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor): Silty brown

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other Drum

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: S.S. Same As Above
 Submersible Centrifugal Bladder; Pump No.: _____ Grab - Type: _____
 Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: 9311

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>1207</u>	<u>3 VOA</u>	<u>8240</u>	<u>HCL</u>	<u>Analytical</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.



Harding Lawson Associates
Engineering and
Environmental Services

GROUND-WATER SAMPLING FORM

Job Name James River
Job Number 26560-1
Recorded by Rich Kaler
(Signature)

Well No. W-6
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date 11-22-93 Time 1228
Sampled by RWE - SJK
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
Total Depth of Casing (TD in feet BTOC): 36
Water Level Depth (WL in feet BTOC): 12.64
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

PURGE VOLUME CALCULATION:

$$\left(\frac{36}{\text{TD (feet)}} - \frac{12.64}{\text{WL (feet)}} \right) \times \frac{2}{D \text{ (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0408 = 11 \text{ gallons}$$

Calculated Purge Volume

PURGE METHOD

Bailor - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)
from _____ to _____

PURGE TIME

1218 Start 1224 Stop 6:00 Elapsed

PURGE RATE

Initial 2 gpm Final 2 gpm

ACTUAL PURGE VOLUME

11 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. ($\mu\text{mhos/cm}$)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other <u>urb</u>
initial	6.3	430	18.0	>1000
6-Gals	6.2	450	19.0	
11 "	6.2	450	19.5	>1000
meter #15	2862	4989		849

Minutes Since Pumping Began	pH	Cond. ($\mu\text{mhos/cm}$)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor): silty brown

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other Drum

WELL SAMPLING

SAMPLING METHOD

Bailor - Type: S.S. Grab - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____ Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: 9311

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
JR06	3 VOA	8240	HCL	Analytix	

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Duplicate Sample No.	Type	Sample No.	Type	Sample No.



Harding Lawson Associates
Engineering and
Environmental Services

GROUND-WATER SAMPLING FORM

Job Name James River
Job Number 26560-1
Recorded by Rich Colver
(Signature)

Well No. W-7
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date 11-22-93 Time 1354
Sampled by RWE - SJK
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
Total Depth of Casing (TD in feet BTOC): 36
Water Level Depth (WL in feet BTOC): 12.62
Number of Well Volumes to be purged (# Vols)
3 4 5 10 Other _____

PURGE METHOD

Bailor - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)
from _____ to _____

PURGE VOLUME CALCULATION:

$$\left(\frac{36}{\text{TD (feet)}} - \frac{12.62}{\text{WL (feet)}} \right) \times \frac{4}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0408 = 153 \text{ gallons}$$

Calculated Purge Volume

PURGE TIME

PURGE RATE

ACTUAL PURGE VOLUME

1334 Start 1349 Stop 15:00 Elapsed Initial 10 gpm Final 10 gpm 153 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Other <u>turb</u>
Initial	6.4	480	19.0	16.7
30 - Gals.	6.5	460	19.0	
110 - "	6.5	460	19.0	
153 - "	6.5	460	19.0	38.9
Meter nos. 1362		4989		849

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor): clear

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other Drum

WELL SAMPLING

SAMPLING METHOD

Bailor - Type: S.S. Same As Above
 Submersible Centrifugal Bladder; Pump No.: _____ Grab - Type: _____
 Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: 9311

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>1809</u>	<u>3 VOA</u>	<u>8740</u>	<u>HEL</u>	<u>Anometry</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.



Harding Lawson Associates
Engineering and
Environmental Services

GROUND-WATER SAMPLING FORM

Job Name James River

Job Number 26560.1

Recorded by Rich Erdman
(Signature)

Well No. W-8

Well Type: Monitor Extraction Other

Well Material: PVC St. Steel Other

Date 11-22-93 Time 1321

Sampled by RWE-SJK
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

2-inch 4-inch 6-inch Other

Total Depth of Casing (TD in feet BTOC): 34

Water Level Depth (WL in feet BTOC): 17.03

Number of Well Volumes to be purged (# Vols)

3 4 5 10 Other

PURGE METHOD

Bailor - Type: _____

Submersible Centrifugal Bladder; Pump No.: _____

Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____

Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC) from _____ to _____

PURGE VOLUME CALCULATION:

$$\left(\frac{34}{\text{TD (feet)}} - \frac{17.03}{\text{WL (feet)}} \right) \times \frac{4^2}{\text{D (inches)}} \times \frac{3}{\# \text{ Vols}} \times 0.0408 = \frac{43}{\text{Calculated Purge Volume}} \text{ gallons}$$

PURGE TIME

1303 Start 1316 Stop 1321 Elapsed _____

PURGE RATE

Initial 5 gpm Final 5 gpm

ACTUAL PURGE VOLUME

43 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other <u>turb</u>
<u>initial</u>	<u>6.6</u>	<u>410</u>	<u>19.0</u>	<u>>1000</u>
<u>20- Gals.</u>	<u>6.4</u>	<u>430</u>	<u>19.0</u>	<u>61.6</u>
<u>43- "</u>	<u>6.3</u>	<u>475</u>	<u>20.0</u>	<u>39.1</u>
<u>meter nos. 2562</u>		<u>4988</u>		<u>89</u>

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____
Meter Nos. _____				

Observations During Purging (Well Condition, Turbidity, Color, Odor): silty black → cleared w/ purge

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other Drum

WELL SAMPLING

SAMPLING METHOD

Bailor - Type: S.S.

Submersible Centrifugal Bladder; Pump No.: _____

Same As Above

Grab - Type: _____

Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: 9311

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>1808</u>	<u>3 10A</u>	<u>8240</u>	<u>40L</u>	<u>Anamalai</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.



GROUND-WATER SAMPLING FORM

Job Name James River
Job Number 26560
Recorded by Piel Eelman
(Signature)

Well No. W-9
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date 11-22-93 Time 0948
Sampled by RWE - SKT
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
Total Depth of Casing (TD in feet BTOC): 31
Water Level Depth (WL in feet BTOC): 17.11
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

PURGE VOLUME CALCULATION:

$$\left(\frac{31}{\text{TD (feet)}} - \frac{17.11}{\text{WL (feet)}} \right) \times \frac{4}{\text{D (inches)}}^2 \times \frac{3}{\text{\# Vols}} \times 0.0408 = \frac{33}{\text{Calculated Purge Volume}} \text{ gallons}$$

PURGE METHOD

Bailor - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC) from _____ to _____

PURGE TIME

PURGE RATE

ACTUAL PURGE VOLUME

0932 Start 0944 Stop 12:00 Elapsed Initial 3 gpm Final 3 gpm 33 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Other <u>turb</u>
initial	7.5	490	18.0	39.0
18.0 min.	7.4	500	20.0	
37. "	7.4	500	20.0	22.7
Meter nos.	2862	4989		849

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor): slightly turbid, odorless → cleared
Discharge Water Disposal: Sanitary Sewer Storm Sewer Other Drum

WELL SAMPLING

SAMPLING METHOD

Bailor - Type: S.S. Same As Above
 Submersible Centrifugal Bladder; Pump No.: _____ Grab - Type: _____
 Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: 9311

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
JR 01	3 VDA	8240	HCL	Anometric	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
trip	JR-02

Other Samples

Type	Sample No.



Harding Lawson Associates
Engineering and
Environmental Services

GROUND-WATER SAMPLING FORM

Job Name James River
Job Number 26560-1
Recorded by Rick Erdman
(Signature)

Well No. W-10
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date 11-22-93 Time 1111
Sampled by RWF - SKJ
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
Total Depth of Casing (TD in feet BTOC): 17
Water Level Depth (WL in feet BTOC): 12.87
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

PURGE METHOD

Bailer - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)
from _____ to _____

PURGE VOLUME CALCULATION:

$$\left(\frac{17}{\text{TD (feet)}} - \frac{12.87}{\text{WL (feet)}} \right) \times \frac{4}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0408 = \frac{8}{\text{Calculated Purge Volume}} \text{ gallons}$$

PURGE TIME

PURGE RATE

ACTUAL PURGE VOLUME

11:02 Start 11:06 Stop 11:09 Elapsed Initial 2 gpm Final 2 gpm 8 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (umhos/cm)	T <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Other <u>Temp</u>
initial	6.5	500	18.0	71.2
4 - Grabs	6.3	500	23.0	
8 - "	6.3	500	23.0	33.6
meter nos	2862	4989		849

Minutes Since Pumping Began	pH	Cond. (umhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor): slightly turbid - odor
Discharge Water Disposal: Sanitary Sewer Storm Sewer Other drum

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: S.S. Same As Above
 Submersible Centrifugal Bladder; Pump No.: _____ Grab - Type: _____
 Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: 9311

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
JR03	3 vials	8240	HCL	Analytical	

QUALITY CONTROL SAMPLES

Original Sample No.	Duplicate Sample No.

Type	Sample No.

Type	Sample No.



GROUND-WATER SAMPLING FORM

Job Name James River
Job Number 26560-1
Recorded by Rich Edman
(Signature)

Well No. B-1
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date 11.22.98 Time 1210
Sampled by RWE-SJK
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
Total Depth of Casing (TD in feet BTOC): 48
Water Level Depth (WL in feet BTOC): 12.22
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

PURGE VOLUME CALCULATION:

$$\left(\frac{48}{\text{TD (feet)}} - \frac{12.22}{\text{WL (feet)}} \right) \times \frac{4}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0408 = \frac{30}{\text{Calculated Purge Volume}} \text{ gallons}$$

PURGE METHOD

Bailer - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)
from _____ to _____

PURGE TIME

1150 Start 1204 Stop 1224 Elapsed _____

PURGE RATE

Initial 5 gpm Final 5 gpm

ACTUAL PURGE VOLUME

30 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Other <u>urb</u>
initial	6.6	300	19.0	13.1
30-Gals.	6.6	300	19.0	
70- "	6.7	450	19.0	11.7
meter nos.	2807	4989		249

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor): clear

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other Drum

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: SS Same As Above
 Submersible Centrifugal Bladder; Pump No.: _____ Grab - Type: _____
 Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: 9311

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>1205</u>	<u>3 WBA</u>	<u>8240</u>	<u>HEL</u>	<u>Anomedia</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

CHAIN OF CUSTODY FORM



Harding Lawson Associates
200 Rush Landing Road
P.O. Box 6107
Novato, California 94948
415/892-0821
Telecopy: 415/892-1586

CHAIN OF CUSTODY FORM

Lab: Anamatrix

Job Number: 26560.1
Name/Location: James River - San Leandro
Project Manager: Bruce Sheibach
Samplers: Steve Korbey
Rick Erdman
Recorder: Rich Erdman
(Signature Required)

SOURCE CODE	MATRIX				#CONTAINERS & PRESERV.				SAMPLE NUMBER OR LAB NUMBER			DATE			
	Water	Sediment	Soil	Oil	Unpres.	H ₂ SO ₄	HNO ₃	HCl	Yr	Wk	Seq	Yr	Mo	Dy	Time
	23	x							3	93	1	JR01	93	1	22
23	x							3	93	1	JR02	93	1	22	1000
23	x							3	93	1	JR03	93	1	22	1110
23	x							3	93	1	JR04	93	1	22	1130
23	x							3	93	1	JR05	93	1	22	1200
23	x							3	93	1	JR06	93	1	22	1230
23	x							3	93	1	JR07	93	1	22	1300
23	x							3	93	1	JR08	93	1	22	1330
23	x							3	93	1	JR09	93	1	22	1400

ANALYSIS REQUESTED					
EPA 601/8010					
EPA 602/8020					
EPA 624/8240	X				
EPA 625/8270	X				
ICP METALS	X				
EPA 8015M/TPH	X				

LAB NUMBER			DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
Yr	Wk	Seq				

<p>AHL SAMPLES COLLECTED PROPER CONTAINER NO BUBBLES CHAIN OF CUSTODY RECORD</p>		
RELINQUISHED BY: (Signature) <u>Rich Erdman</u>	RECEIVED BY: (Signature) <u>Steve Korbey</u>	DATE/TIME 11-22-93 1512
RELINQUISHED BY: (Signature) <u>[Signature]</u>	RECEIVED BY: (Signature) <u>Rick McKeown</u>	DATE/TIME 11/23/93 1700
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature) <u>Steve Korbey</u>	RECEIVED BY: (Signature) <u>Jenny S. Crigors</u>	DATE/TIME 11/24/93 1225
RELINQUISHED BY: (Signature) <u>Jenny S. Crigors</u>	RECEIVED BY: (Signature) <u>Calvin Nelson</u>	DATE/TIME 11-24-93 1730
METHOD OF SHIPMENT		

ANAMETRIX ANALYTICAL DATA



Inchcape Testing Services

Anamatrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MR. BRUCE SHEIBACH
HARDING LAWSON ASSOCIATES - NOVATO
105 DIGITAL DRIVE
NOVATO, CA 94949

Workorder # : 9311339
Date Received : 11/24/93
Project ID : 26560.1
Purchase Order: N/A

The following samples were received at Anamatrix, Inc. for analysis :

ANAMATRIX ID	CLIENT SAMPLE ID
9311339- 1 W-9	9311JR01
9311339- 2 T-B.	9311JR02
9311339- 3 W-10	9311JR03
9311339- 4 W-3	9311JR04
9311339- 5 B-1	9311JR05
9311339- 6 W-6	9311JR06
9311339- 7 W-5	9311JR07
9311339- 8 W-8	9311JR08
9311339- 9 W-7	9311JR09

HARDING LAWSON ASSOC.
DEC - 6 1993

This report consists of 16 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anamatrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

Sarah Schoen, Ph.D.
Laboratory Director

12-02-93

Date



ANAMATRIX REPORT DESCRIPTION GCMS

Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anamatrix ID number.

Tentatively Identified Compounds (TICs)

TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted at Anamatrix. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Qualifiers

Anamatrix uses several data qualifiers (Q) in its report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the amount reported exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an analysis performed at a secondary dilution.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. This is common in EPA Method 8270 soil analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. BRUCE SHEIBACH
HARDING LAWSON ASSOCIATES - NOVATO
105 DIGITAL DRIVE
NOVATO, CA 94949

Workorder # : 9311339
Date Received : 11/24/93
Project ID : 26560.1
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9311339- 1	9311JR01	WATER	11/22/93	8240
9311339- 2	9311JR02	WATER	11/22/93	8240
9311339- 3	9311JR03	WATER	11/22/93	8240
9311339- 4	9311JR04	WATER	11/22/93	8240
9311339- 5	9311JR05	WATER	11/22/93	8240
9311339- 6	9311JR06	WATER	11/22/93	8240
9311339- 7	9311JR07	WATER	11/22/93	8240
9311339- 8	9311JR08	WATER	11/22/93	8240
9311339- 9	9311JR09	WATER	11/22/93	8240

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. BRUCE SHEIBACH
HARDING LAWSON ASSOCIATES - NOVATO
105 DIGITAL DRIVE
NOVATO, CA 94949

Workorder # : 9311339
Date Received : 11/24/93
Project ID : 26560.1
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- No QA/QC problems.

Denise Powell
Department Supervisor

12-2-93
Date

Shane Winkler 12-2-93
Chemist Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
Sample ID : 9311JR01
Matrix : WATER
Date Sampled : 11/22/93
Date Analyzed : 12/ 1/93
Instrument ID : MSD1

Anamatrix ID : 9311339-01
Analyst : (W)
Supervisor : ~~DP~~
Dilution Factor : 1.0
Conc. Units : ug/L

WELL: W-9

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	4.	J
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	3.	J
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	5.	J
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	92.	
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	11.	
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
 ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
 Sample ID : 9311JR02
 Matrix : WATER
 Date Sampled : 11/22/93
 Date Analyzed : 12/ 1/93
 Instrument ID : MSD1

Anamatrix ID : 9311339-02
 Analyst : WJ
 Supervisor : DP
 Dilution Factor : 1.0
 Conc. Units : ug/L

WELL: Trip Blank

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
Sample ID : 9311JR03
Matrix : WATER
Date Sampled : 11/22/93
Date Analyzed : 12/ 1/93
Instrument ID : MSD1

Anamatrix ID : 9311339-03
Analyst : W
Supervisor : M
Dilution Factor : 1000.0
Conc. Units : ug/L

WELL: W-10

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10000.	ND	U
75-01-4	Vinyl chloride	10000.	ND	U
74-83-9	Bromomethane	10000.	ND	U
75-00-3	Chloroethane	10000.	ND	U
75-69-4	Trichlorofluoromethane	5000.	ND	U
75-35-4	1,1-Dichloroethene	5000.	ND	U
76-13-1	Trichlorotrifluoroethane	5000.	ND	U
67-64-1	Acetone	20000.	210000.	U
75-15-0	Carbon disulfide	5000.	ND	U
75-09-2	Methylene chloride	5000.	ND	U
156-60-5	Trans-1,2-dichloroethene	5000.	ND	U
75-34-3	1,1-Dichloroethane	5000.	ND	U
156-59-2	Cis-1,2-dichloroethene	5000.	ND	U
78-93-3	2-Butanone	20000.	ND	U
67-66-3	Chloroform	5000.	ND	U
71-55-6	1,1,1-Trichloroethane	5000.	ND	U
56-23-5	Carbon tetrachloride	5000.	ND	U
108-05-4	Vinyl acetate	10000.	ND	U
71-43-2	Benzene	5000.	ND	U
107-06-2	1,2-Dichloroethane	5000.	ND	U
79-01-6	Trichloroethene	5000.	ND	U
78-87-5	1,2-Dichloropropane	5000.	ND	U
75-27-4	Bromodichloromethane	5000.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5000.	ND	U
108-10-1	4-Methyl-2-pentanone	10000.	6000.	J
108-88-3	Toluene	5000.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5000.	ND	U
79-00-5	1,1,2-Trichloroethane	5000.	ND	U
127-18-4	Tetrachloroethene	5000.	ND	U
591-78-6	2-Hexanone	10000.	ND	U
124-48-1	Dibromochloromethane	5000.	ND	U
108-90-7	Chlorobenzene	5000.	ND	U
100-41-4	Ethylbenzene	5000.	ND	U
1330-20-7	Xylene (Total)	5000.	ND	U
100-42-5	Styrene	5000.	ND	U
75-25-2	Bromoform	5000.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5000.	ND	U
541-73-1	1,3-Dichlorobenzene	5000.	ND	U
106-46-7	1,4-Dichlorobenzene	5000.	ND	U
95-50-1	1,2-Dichlorobenzene	5000.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
Sample ID : 9311JR04
Matrix : WATER
Date Sampled : 11/22/93
Date Analyzed : 12/ 1/93
Instrument ID : MSD1

Anamatrix ID : 9311339-04
Analyst : WJ
Supervisor : DP
Dilution Factor : 1.0
Conc. Units : ug/L

WELL: W-3

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	26.	
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	14.	
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
 ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
 Sample ID : 9311JR05
 Matrix : WATER
 Date Sampled : 11/22/93
 Date Analyzed : 12/ 1/93
 Instrument ID : MSD1

Anamatrix ID : 9311339-05
 Analyst : W
 Supervisor : ~~X~~
 Dilution Factor : 1.0
 Conc. Units : ug/L

WELL: B-1

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	3.	J
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
Sample ID : 9311JR06
Matrix : WATER
Date Sampled : 11/22/93
Date Analyzed : 12/ 1/93
Instrument ID : MSD1

Anamatrix ID : 9311339-06
Analyst : WJ
Supervisor : DP
Dilution Factor : 2.0
Conc. Units : ug/L

WELL: W-6

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	20.	ND	U
75-01-4	Vinyl chloride	20.	ND	U
74-83-9	Bromomethane	20.	ND	U
75-00-3	Chloroethane	20.	ND	U
75-69-4	Trichlorofluoromethane	10.	ND	U
75-35-4	1,1-Dichloroethene	10.	ND	U
76-13-1	Trichlorotrifluoroethane	10.	ND	U
67-64-1	Acetone	40.	23.	J
75-15-0	Carbon disulfide	10.	ND	U
75-09-2	Methylene chloride	10.	ND	U
156-60-5	Trans-1,2-dichloroethene	10.	ND	U
75-34-3	1,1-Dichloroethane	10.	ND	U
156-59-2	Cis-1,2-dichloroethene	10.	ND	U
78-93-3	2-Butanone	40.	ND	U
67-66-3	Chloroform	10.	ND	U
71-55-6	1,1,1-Trichloroethane	10.	ND	U
56-23-5	Carbon tetrachloride	10.	ND	U
108-05-4	Vinyl acetate	20.	ND	U
71-43-2	Benzene	10.	ND	U
107-06-2	1,2-Dichloroethane	10.	ND	U
79-01-6	Trichloroethene	10.	170.	U
78-87-5	1,2-Dichloropropane	10.	ND	U
75-27-4	Bromodichloromethane	10.	ND	U
10061-01-5	Cis-1,3-dichloropropene	10.	ND	U
108-10-1	4-Methyl-2-pentanone	20.	ND	U
108-88-3	Toluene	10.	ND	U
10061-02-6	Trans-1,3-dichloropropene	10.	ND	U
79-00-5	1,1,2-Trichloroethane	10.	ND	U
127-18-4	Tetrachloroethene	10.	280.	U
591-78-6	2-Hexanone	20.	ND	U
124-48-1	Dibromochloromethane	10.	ND	U
108-90-7	Chlorobenzene	10.	ND	U
100-41-4	Ethylbenzene	10.	ND	U
1330-20-7	Xylene (Total)	10.	ND	U
100-42-5	Styrene	10.	ND	U
75-25-2	Bromoform	10.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
Sample ID : 9311JR07
Matrix : WATER
Date Sampled : 11/22/93
Date Analyzed : 12/ 1/93
Instrument ID : MSD1

Anamatrix ID : 9311339-07
Analyst : W
Supervisor : D

Dilution Factor : 10.0
Conc. Units : ug/L

WELL: W-5

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	100.	ND	U
75-01-4	Vinyl chloride	100.	160.	
74-83-9	Bromomethane	100.	ND	U
75-00-3	Chloroethane	100.	ND	U
75-69-4	Trichlorofluoromethane	50.	ND	U
75-35-4	1,1-Dichloroethene	50.	ND	U
76-13-1	Trichlorotrifluoroethane	50.	ND	U
67-64-1	Acetone	200.	ND	U
75-15-0	Carbon disulfide	50.	ND	U
75-09-2	Methylene chloride	50.	ND	U
156-60-5	Trans-1,2-dichloroethene	50.	ND	U
75-34-3	1,1-Dichloroethane	50.	ND	U
156-59-2	Cis-1,2-dichloroethene	50.	1000.	
78-93-3	2-Butanone	200.	ND	U
67-66-3	Chloroform	50.	ND	U
71-55-6	1,1,1-Trichloroethane	50.	ND	U
56-23-5	Carbon tetrachloride	50.	ND	U
108-05-4	Vinyl acetate	100.	ND	U
71-43-2	Benzene	50.	ND	U
107-06-2	1,2-Dichloroethane	50.	ND	U
79-01-6	Trichloroethene	50.	500.	
78-87-5	1,2-Dichloropropane	50.	ND	U
75-27-4	Bromodichloromethane	50.	ND	U
10061-01-5	Cis-1,3-dichloropropene	50.	ND	U
108-10-1	4-Methyl-2-pentanone	100.	ND	U
108-88-3	Toluene	50.	ND	U
10061-02-6	Trans-1,3-dichloropropene	50.	ND	U
79-00-5	1,1,2-Trichloroethane	50.	ND	U
127-18-4	Tetrachloroethene	50.	2100.	
591-78-6	2-Hexanone	100.	ND	U
124-48-1	Dibromochloromethane	50.	ND	U
108-90-7	Chlorobenzene	50.	ND	U
100-41-4	Ethylbenzene	50.	ND	U
1330-20-7	Xylene (Total)	50.	ND	U
100-42-5	Styrene	50.	ND	U
75-25-2	Bromoform	50.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	50.	ND	U
541-73-1	1,3-Dichlorobenzene	50.	ND	U
106-46-7	1,4-Dichlorobenzene	50.	ND	U
95-50-1	1,2-Dichlorobenzene	50.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
 ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
 Sample ID : 9311JR08
 Matrix : WATER
 Date Sampled : 11/22/93
 Date Analyzed : 12/ 1/93
 Instrument ID : MSD1

Anamatrix ID : 9311339-08
 Analyst : W
 Supervisor : ~~W~~
 Dilution Factor : 1.0
 Conc. Units : ug/L

WELL: W-8

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	130.	
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	3.	J
156-59-2	Cis-1,2-dichloroethene	5.	150.	
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	3.	J
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
 ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
 Sample ID : 9311JR09
 Matrix : WATER
 Date Sampled : 11/22/93
 Date Analyzed : 12/ 1/93
 Instrument ID : MSD1

Anamatrix ID : 9311339-09
 Analyst : WJ
 Supervisor : DP
 Dilution Factor : 2.0
 Conc. Units : ug/L

WELL: W-7

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	20.	ND	U
75-01-4	Vinyl chloride	20.	ND	U
74-83-9	Bromomethane	20.	ND	U
75-00-3	Chloroethane	20.	ND	U
75-69-4	Trichlorofluoromethane	10.	ND	U
75-35-4	1,1-Dichloroethene	10.	ND	U
76-13-1	Trichlorotrifluoroethane	10.	ND	U
67-64-1	Acetone	40.	ND	U
75-15-0	Carbon disulfide	10.	ND	U
75-09-2	Methylene chloride	10.	ND	U
156-60-5	Trans-1,2-dichloroethene	10.	ND	U
75-34-3	1,1-Dichloroethane	10.	ND	U
156-59-2	Cis-1,2-dichloroethene	10.	15.	U
78-93-3	2-Butanone	40.	ND	U
67-66-3	Chloroform	10.	ND	U
71-55-6	1,1,1-Trichloroethane	10.	ND	U
56-23-5	Carbon tetrachloride	10.	ND	U
108-05-4	Vinyl acetate	20.	ND	U
71-43-2	Benzene	10.	ND	U
107-06-2	1,2-Dichloroethane	10.	ND	U
79-01-6	Trichloroethene	10.	160.	U
78-87-5	1,2-Dichloropropane	10.	ND	U
75-27-4	Bromodichloromethane	10.	ND	U
10061-01-5	Cis-1,3-dichloropropene	10.	ND	U
108-10-1	4-Methyl-2-pentanone	20.	ND	U
108-88-3	Toluene	10.	ND	U
10061-02-6	Trans-1,3-dichloropropene	10.	ND	U
79-00-5	1,1,2-Trichloroethane	10.	ND	U
127-18-4	Tetrachloroethene	10.	190.	U
591-78-6	2-Hexanone	20.	ND	U
124-48-1	Dibromochloromethane	10.	ND	U
108-90-7	Chlorobenzene	10.	ND	U
100-41-4	Ethylbenzene	10.	ND	U
1330-20-7	Xylene (Total)	10.	ND	U
100-42-5	Styrene	10.	ND	U
75-25-2	Bromoform	10.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
 ANAMETRIX, INC. (408)432-8192

Project ID : Anamatrix ID : BD0102A2
 Sample ID : VBLK1B Analyst : W
 Matrix : WATER Supervisor : W
 Date Sampled : 0/ 0/ 0
 Date Analyzed : 12/ 1/93 Dilution Factor : 1.0
 Instrument ID : MSD1 Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
Matrix : LIQUID

Anamatrix ID : 9311339
Analyst : W
Supervisor : X

	SAMPLE ID	SU1	SU2	SU3
1	VBLK1B	94	99	98
2	LCS1B	92	100	98
3	9311JR02	93	100	95
4	9311JR03	95	100	96
5	9311JR06	95	101	96
6	9311JMS	92	100	95
7	9311JR07	96	100	95
8	9311JMSD	94	101	95
9	9311JR01	96	101	94
10	9311JR09	95	100	94
11	9311JR05	94	102	95
12	9311JR08	95	100	94
13	9311JR04	94	100	95
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

QC LIMITS

SU1 = 1,2-Dichloroethane-d4 (75-113)
 SU2 = Toluene-d8 (83-110)
 SU3 = 1,4-Bromofluorobenzene (82-114)

* Values outside of Anamatrix QC limits

MATRIX SPIKE RECOVERY FORM -- EPA METHOD 8240
 ANAMETRIX, INC. (408)432-8192

Project ID : 26560.1
 Sample ID : 9311JR02
 Matrix : WATER
 Date Sampled : 11/22/93
 Date Analyzed : 12/ 1/93
 Instrument ID : MSD1

Anamatrix ID : 9311339-02
 Analyst : wj
 Supervisor : W

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	%REC LIMITS
1,1-Dichloroethene	50.	0.	46.	92	67-150
Benzene	50.	0.	56.	111	75-134
Trichloroethene	50.	0.	55.	110	69-136
Toluene	50.	0.	57.	114	78-130
Chlorobenzene	50.	0.	54.	108	85-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	RPD LIMITS	%REC LIMITS
1,1-Dichloroethene	50.	45.	91	1	25	67-150
Benzene	50.	55.	111	1	25	75-134
Trichloroethene	50.	55.	111	0	25	69-136
Toluene	50.	57.	115	1	25	78-130
Chlorobenzene	50.	53.	106	2	25	85-130

* Value is outside of Anamatrix QC limits

RPD: 0 out of 5 outside limits
 Spike Recovery: 0 out of 10 outside limits

LABORATORY CONTROL SPIKE RECOVERY FORM --- EPA METHOD 624/8240
 ANAMETRIX, INC. (408)432-8192

Project/Case : Anamatrix ID : MD0101A2
 Matrix : WATER Analyst : W
 Date Sampled : 0/ 0/ 0 Supervisor : SP
 Date Analyzed : 12/1/93 SDG/Batch :
 Instrument ID : MSD1

LCS1B

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	%REC LIMITS
1,1-Dichloroethene	50	0	54	108	72-145
Benzene	50	0	55	110	83-125
Trichloroethene	50	0	53	106	61-140
Toluene	50	0	54	108	82-123
Chlorobenzene	50	0	52	104	82-125

**The EDR-Radius MapTM
Report**

**Quarterly Ground Water Mon.
Doolittle Dr. & Williams St.
San Leandro, CA 94577**

December 08, 1993

Inquiry Number: 36151.1



**Environmental
Data
Resources, Inc.**

Creators of Toxicheck[®]

***The Source
For Environmental
Risk Management
Data***

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Facsimilie: 1-800-231-6802

THE EDR RADIUS MAP™ REPORT

The EDR RADIUS MAP™ Report is a screening tool which maps sites with potential or existing environmental liabilities. Specified government databases are searched in accordance with the ASTM Standard (E 1527) or custom specifications provided by the user.

The EDR RADIUS MAP™ Report includes the following three maps:

Topographic Map -- 4 square mile area:

- o Displays a 2 mile radius around the target property.
- o Displays the USGS topographic contours and selected road features (i.e., major street names, and hydrographic data).

Detail Map:

- o Displays a 1/4 mile radius or customer specified radius around the target property and provides the user a "close-up" view.
- o Includes all geographic attributes available in EDR's computer mapping system (e.g., street names, address ranges, etc.).
- o Helps the user locate "orphan" sites, those sites with insufficient address information such that they can only be identified as within the zip code, city, or county of the target property.

Overview Map:

- o Displays a 1 mile (ASTM Standard) or customer specified radius around the target property.
- o Includes major geographic attributes available in EDR's computer mapping system (e.g., street names, available hydrography, etc.).

Please call EDR Nationwide Customer Service at
1-800-352-0050 (8am - 8pm EST)
with questions or comments about your report.

Thank you for your business!

Disclaimer

EDR makes no representation or warranty regarding the accuracy, quality or completeness of any data provided by governmental or other entity used by EDR in the preparation of its reports. The customer shall take full responsibility for the use of EDR reports. **No warranty of merchantability or of fitness for particular purpose, expressed or implied, shall apply and EDR specifically disclaims the making of any such warranties.** In no event shall EDR be liable to anyone for special, incidental, consequential or exemplary damages.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Last Contact: To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day requirement of the ASTM standard.

FEDERAL ASTM RECORDS:

CERCLIS: Comprehensive Environmental Response, Compensation and Liability Information System; Source: United States Environmental Protection Agency (USEPA). CERCLIS contains information on sites identified by the USEPA as abandoned, inactive or uncontrolled hazardous waste sites which may require cleanup.

Date of Government Version: 08/31/93
Date Made Active at EDR: 10/20/93

Date of Data Arrival at EDR: 09/12/93
Elapsed ASTM days: 38

ERNS: Emergency Response Notification System; Source: USEPA and the National Response Center of the US Coast Guard. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/30/93
Date Made Active at EDR: 10/29/93

Date of Data Arrival at EDR: 09/13/93
Elapsed ASTM days: 46

NPL: National Priorities List (Superfund); Source: USEPA. The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program.

Date of Government Version: 05/01/93
Date Made Active at EDR: 07/01/93

Date of Data Arrival at EDR: 05/27/93
Elapsed ASTM days: 35

RCRIS: Resource Conservation and Recovery Information System; Source: USEPA. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/30/93
Date Made Active at EDR: 10/20/93

Date of Data Arrival at EDR: 08/16/93
Elapsed ASTM days: 65

FEDERAL NON-ASTM RECORDS:

FINDS: Facility Index System; Source: USEPA. FINDS contains both facility information and "pointers" to other sources that contain more detail. These include: RCRIS, PCS, AIRS, FATES (FTTS), CERCLIS, DOCKET, FURS (Federal Underground Injection Control), FRDS, SIA (Surface Impoundments), CICIS (TSCA Chemicals in Commerce Information System), PADS, RCRA-J (medical waste transporters/disposers), TRIS and TSCA.

Date of Government Version: 06/15/93

PADS: PCB Activity Database; Source: USEPA. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/29/92

RAATS: RCRA Administration Action Tracking System; Source: USEPA. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA.

Date of Government Version: 06/15/93

TRIS: Toxic Release Inventory System; Source: USEPA. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/90

TSCA: Toxic Substances Control Act; Source: USEPA. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site. USEPA has no current plan to update and/or re-issue this database.

Date of Government Version: 05/15/86

HMIRS: Hazardous Materials Incident Report System; Source: United States Department of Transportation (DOT). HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/92

STATE ASTM RECORDS:

CAL-SITES: Hazardous Waste Sites; Source: California Department of Toxic Substance Control. CAL-SITES combines the former ASPIS (Abandoned Sites Program Information System) and BEP (State Superfund List) hazardous waste site databases.

Date of Government Version: 07/19/93
Date Made Active at EDR: 10/20/93

Date of Data Arrival at EDR: 08/16/93
Elapsed ASTM days: 65

CHMIRS: California Hazardous Material Incident Reporting System; Source: California Office of Emergency Services. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/90
Date Made Active at EDR: 11/05/92

Date of Data Arrival at EDR: 08/08/92
Elapsed ASTM days: 89

CORTESE: Identified Hazardous Waste and Substance Sites; Source: California EPA/Office of Emergency Protection. The database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration.

Date of Government Version: 07/31/92
Date Made Active at EDR: 08/02/93

Date of Data Arrival at EDR: 05/06/93
Elapsed ASTM days: 88

LUST: Leaking Underground Storage Tank Incident Reports; Source: California Water Resources Control Board.

Date of Government Version: 09/07/93
Date Made Active at EDR: 10/27/93

Date of Data Arrival at EDR: 09/13/93
Elapsed ASTM days: 44

NOTIFY 65: Proposition 65 Notification Records; Source: California Water Resources Control Board. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/93
Date Made Active at EDR: 11/19/93

Date of Data Arrival at EDR: 11/01/93
Elapsed ASTM days: 18

SWAT: Solid Waste Activity Tracking; Source: State Water Resources Control Board. SWAT contains information on ground water monitoring of sanitary landfills.

Date of Government Version: 08/29/93
Date Made Active at EDR: 09/13/93

Date of Data Arrival at EDR: 09/03/93
Elapsed ASTM days: 10

SWF/LS (SWIS): Active, Closed and Inactive Landfills; Source: California Integrated Waste Management Board. SWF/LS records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/01/93
Date Made Active at EDR: 07/19/93

Date of Data Arrival at EDR: 04/27/93
Elapsed ASTM days: 83

TOXIC PITS: Toxic PITS Cleanup Act Sites; Source: California Water Resources Control Board. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 03/29/93
Date Made Active at EDR: 06/28/93

Date of Data Arrival at EDR: 04/05/93
Elapsed ASTM days: 84

UST: Hazardous Substance Storage Container Database; Source: California Water Resources Control Board. Under RCRA, UST's must be registered with the state department responsible for administering the UST program.

Date of Government Version: 10/15/90
Date Made Active at EDR: 02/12/91

Date of Data Arrival at EDR: 01/25/91
Elapsed ASTM days: 18

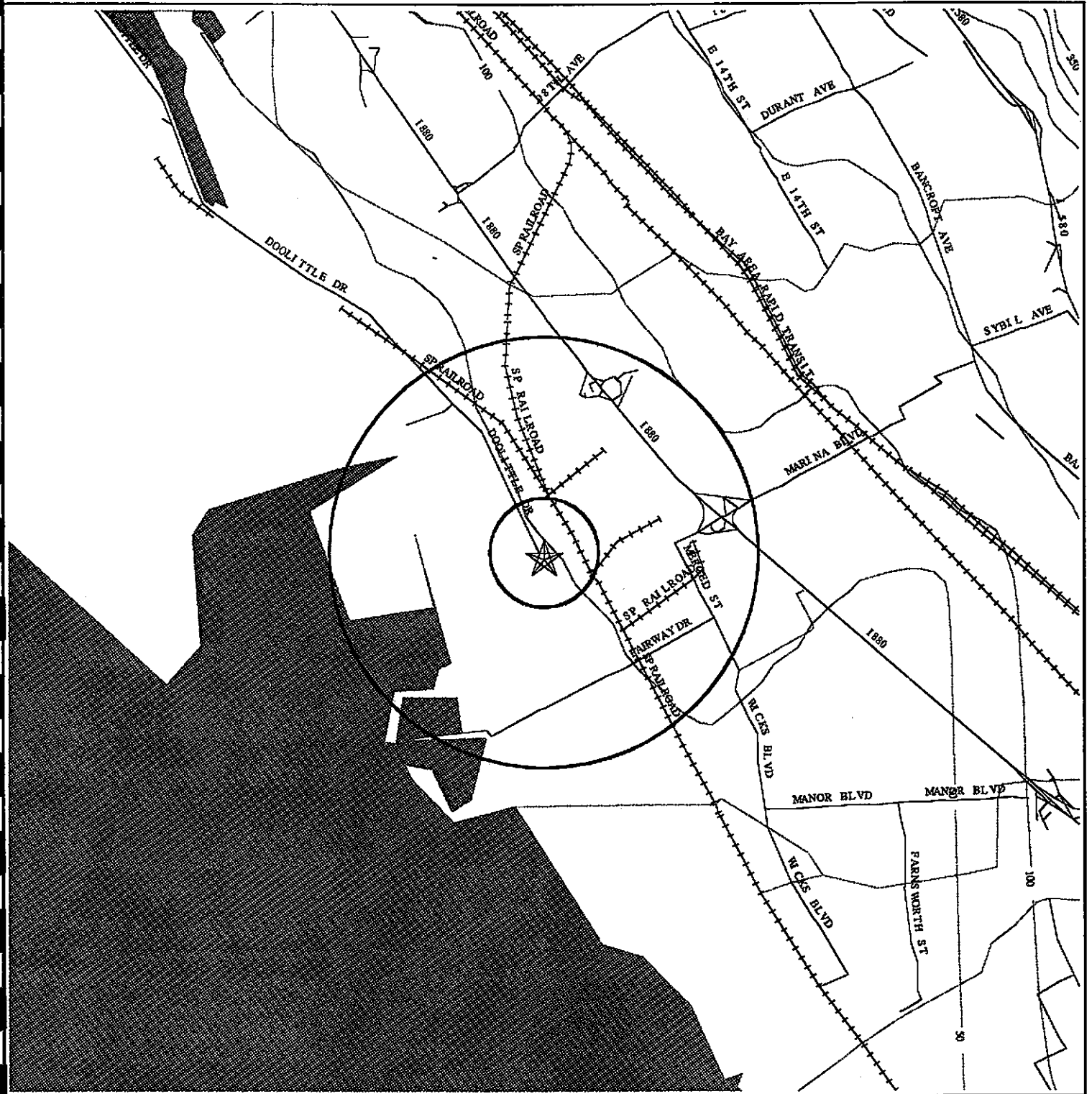
Historical Database(s)

Former Manufactured Gas (Coal Gas) Sites : The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc.

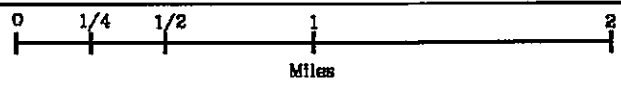
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The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

TOPOGRAPHIC MAP



Source: US Geological Survey 1-Degree Digital Elevation Model
 Compiled 09/15/92

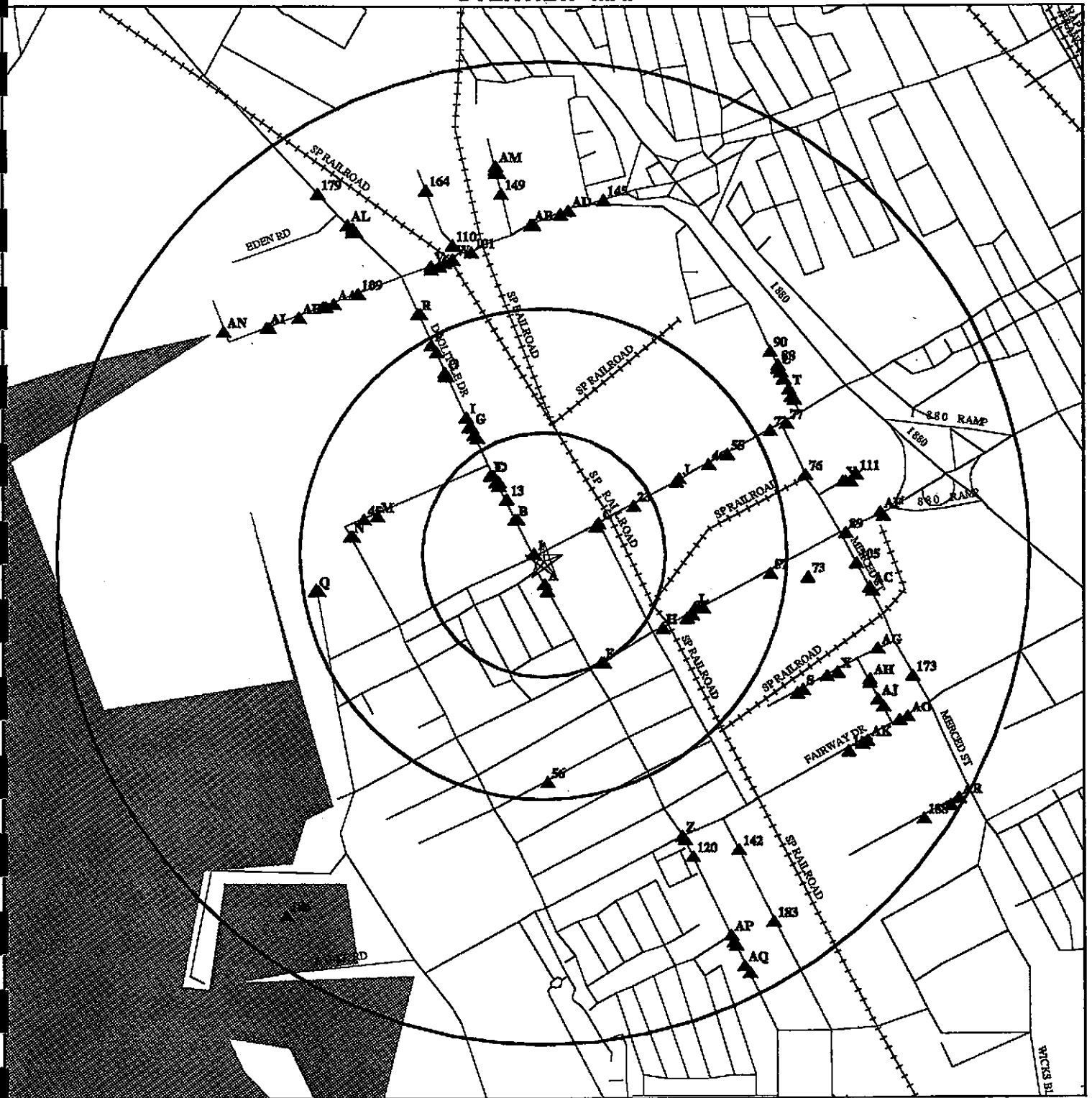


- Major Roads
- Contour lines (50 foot interval unless otherwise shown)
- Waterways

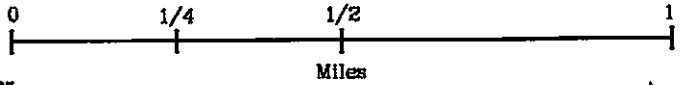


<p>TARGET PROPERTY: Quarterly Ground Water Mon. ADDRESS: Doolittle Dr. & Williams St. CITY/STATE/ZIP: San Leandro CA 94577 LAT/LONG: 37.7077 / 122.1804</p>	<p>CUSTOMER: Harding Lawson Associates CONTACT: Bruce Schelbach INQUIRY #: 36151.1 DATE: December 4, 1993</p>
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OVERVIEW MAP

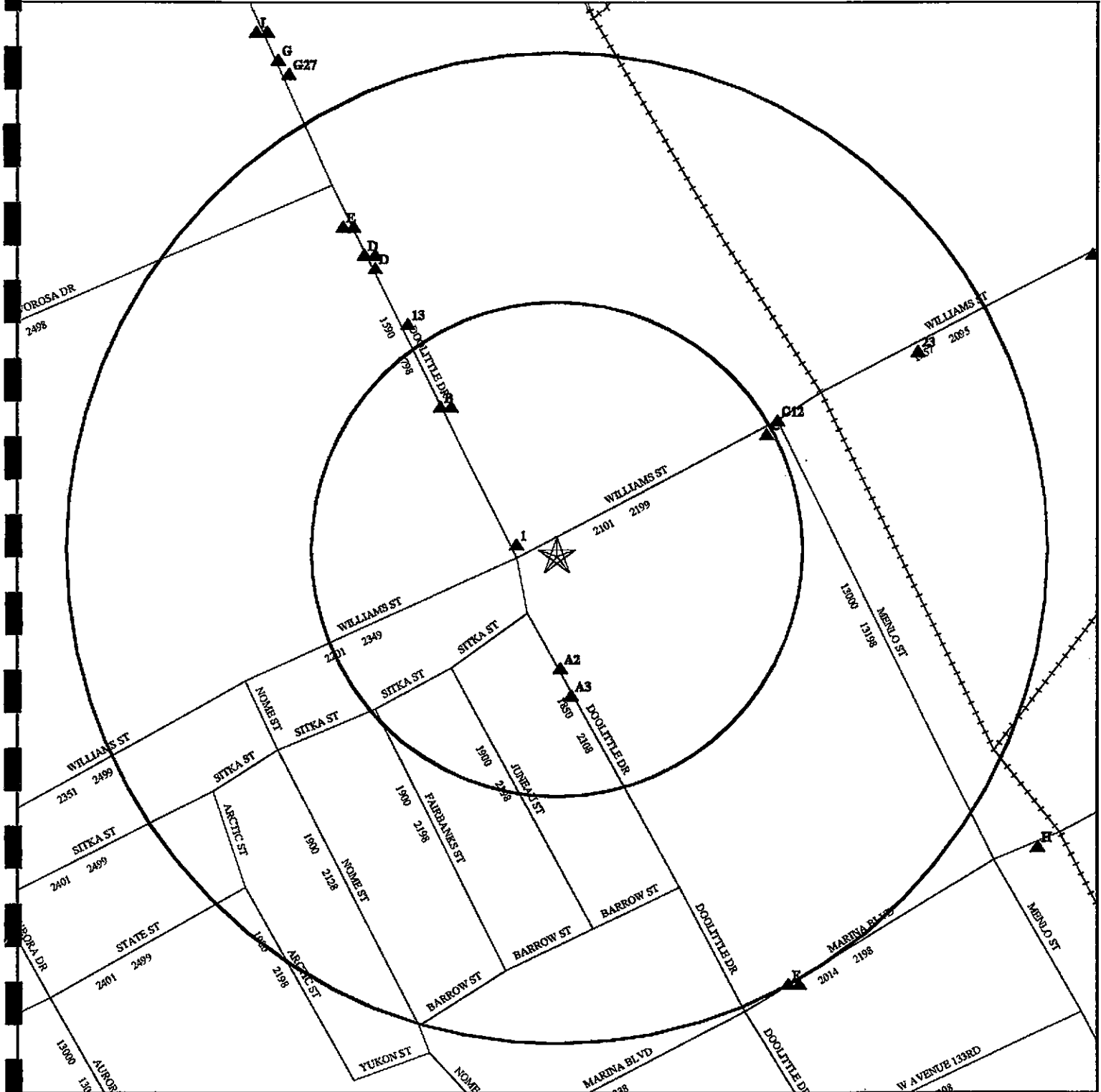


- ★ - Indicates TARGET PROPERTY.
- ▲ - Indicates environmental elements found in NEDIS at ASTM or customer specified distances.
- ▲ - Coal Gasification Sites (if requested)
- - National Priority List Sites

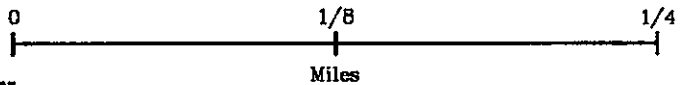


TARGET PROPERTY: Quarterly Ground Water Mon.	CUSTOMER: Harding Lawson Associates
ADDRESS: Doolittle Dr. & Williams St.	CONTACT: Bruce Scheibach
CITY/STATE/ZIP: San Leandro CA 94577	INQUIRY #: 36151.1
LAT/LONG: 37.7077 / 122.1804	DATE: December 4, 1993

DETAIL MAP



- ★ - Indicates TARGET PROPERTY.
- ▲ - Indicates environmental elements found in NEDIS at ASTM or customer specified distances.
- ▲ (with triangle) - Coal Gasification Sites (if requested)
- ☐ - National Priority List Sites



TARGET PROPERTY: Quarterly Ground Water Mon.
ADDRESS: Doolittle Dr. & Williams St.
CITY/STATE/ZIP: San Leandro CA 94577
LAT/LONG: 37.7077 / 122.1804

CUSTOMER: Harding Lawson Associates
CONTACT: Bruce Schelbach
INQUIRY #: 36151.1
DATE: December 4, 1993

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>	<u>Total Orphans</u>
NPL		1.000	0	0	0	0	NR	0	0
RCRIS-TSD		1.000	0	0	0	0	NR	0	0
Cal-Sites		1.000	2	2	9	58	NR	71	13
Notify 65		1.000	0	0	2	0	NR	2	0
CHMIRS		1.000	0	0	0	0	NR	0	14
Cortese		1.000	9	9	29	67	NR	114	4
Toxic Pits		1.000	0	0	0	0	NR	0	0
CERCLIS		0.500	1	0	2	NR	NR	3	5
St. Landfill (SWIS)		0.500	0	0	0	NR	NR	0	0
LUST		0.500	3	5	14	NR	NR	22	3
UST		0.125	5	NR	NR	NR	NR	5	2
RAATS	TP		NR	NR	NR	NR	NR	0	0
SWAT	TP		NR	NR	NR	NR	NR	0	0
RCRA Sm. Quan. Gen.		0.125	1	NR	NR	NR	NR	1	1
RCRA Lg. Quan. Gen.		0.125	2	NR	NR	NR	NR	2	0
HMIRS	TP		NR	NR	NR	NR	NR	0	0
PADS	TP		NR	NR	NR	NR	NR	0	0
ERNS	TP		NR	NR	NR	NR	NR	0	0
FINDS	TP		NR	NR	NR	NR	NR	0	6
TRIS	TP		NR	NR	NR	NR	NR	0	0
TSCA	TP		NR	NR	NR	NR	NR	0	0
Coal Gas		NR	NR	NR	NR	NR	NR	NR	NR

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
B7 NW < 1/8	A T & T CONSUMER PRODUCTS DOOLITTLE DR (1717) SAN LEANDRO, CA 94577	Cortese	S100455826 N/A
B8 NW < 1/8	AT & T INFORMATION SYSTEMS DOOLITTLE DR (1717) SAN LEANDRO, CA 94577	Cortese	S100455828 N/A
B9 NW < 1/8	A T & T INFORMATION SYSTEMS DOOLITTLE DR (1717) SAN LEANDRO, CA 94577	Cortese	S100455827 N/A
C10 ENE < 1/8	CROWN ZELLERBACH CORP-FLEXIBLE PACKAGING 2101 WILLIAMS STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100350469 N/A
C11 ENE < 1/8	CROWN ZELLERBACH FLEXIBLE PKG DIV 2101 WILLIAMS ST SAN LEANDRO, CA 94577	CERCLIS FINDS LUST Cortese RCRIS-LQG UST	1000437836 CAD009117516
<p>CERCLIS Site Status: EPA has conducted a preliminary assessment on this site and has determined that no further action is necessary and no hazard was identified</p> <p>CERCLIS Last Assessment: PRELIMINARY ASSESSMENT Completed - 02/01/86</p> <p>Other Pertinent Environmental Activity Identified at Site: facility has an emission permit under the Clean Air Act</p> <p>LUST:</p> <p>Date Spilled: 19820701 Quantity: N/A Chemical(s): NOT REPORTED Case Type: The type of resources affected or extent of resources affected are not known Status: Post remedial action monitoring in progress Date Spilled: 19860227 Quantity: N/A Chemical(s): DIESEL Case Type: The type of resources affected or extent of resources affected are not known Status: No leak action taken by responsible party after initial report of leak</p> <p>CA UST ID#: 00000001800 Tank #: 1 Container #: 1 Capacity: 6000 Year Installed: 1953 Tank Used for: PRODUCT Type of Fuel: N/A There are 7 other tank details available for this site.</p> <p>(For more information on this site, call your EDR Customer Service Rep.)</p>			
C12 ENE < 1/8	JAMES RIVER II INC. 2101 WILLIAMS ST. SAN LEANDRO, CA 94577	Cortese TRIS	1000477303 CAD009117516

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
13 NNW 1/8-1/4	PACIFIC BELL 1655 - 1661 DOOLITTLE DRIVE SAN LEANDRO, CA 94577	FINDS LUST RCRIS-LQG UST	1000250586 CAD053904231
	LUST: N/A		
	CA UST ID#: 00000057718		
	Tank #: 1	Container #: 1	Capacity: 12000
	Year Installed: 1974	Tank Used for: PRODUCT	Tank contains: motor fuel or waste oil
	Type of Fuel: DIESEL		
	There are 2 other tank details available for this site.		
D14 NNW 1/8-1/4	SULLAIR PACIFIC CO 1618 DOOLITTLE DR SAN LEANDRO, CA 94577	LUST	S100544400 N/A
	LUST: N/A		
D15 NNW 1/8-1/4	OAKLAND SANDBLASTING COMPANY 1620 DOOLITTLE DR SAN LEANDRO, CA 94577	Cal-Sites RCRIS-SQG FINDS	1000596453 CAD983604257
	CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)		
D16 NNW 1/8-1/4	NORCAL TOWING EQUIPMENT DOOLITTLE DR (1616) SAN LEANDRO, CA 94577	LUST Cortese	S100272704 N/A
	LUST: Date Spilled: 19910423 Quantity: N/A Chemical(s): DIESEL Case Type: The type of resources affected or extent of resources affected are not known Status: No leak action taken by responsible party after initial report of leak		
D17 NNW 1/8-1/4	ONAN-CUMMINS POWER OF CAL DOOLITTLE DR (1616) SAN LEANDRO, CA 94577	Cortese	S100455823 N/A
D18 NNW 1/8-1/4	ONAN-CUMMINS POWER OF CAL INC DOOLITTLE DR (1616) SAN LEANDRO, CA 94577	Cortese	S100455824 N/A
D19 NNW 1/8-1/4	1X DALZEIL TRUSTS DOOLITTLE DR (1618) SAN LEANDRO, CA 94577	Cortese	S100455825 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
D20 NNW 1/8-1/4	AIRCO DISTRIBUTER GASES 1590 DOOLITTLE DR SAN LEANDRO, CA 94577	RCRIS-SQG FINDS LUST Cortese	1000175746 CAD982339285
<p>LUST: Date Spilled: 19881024 Quantity: N/A Chemical(s): MISC MVF Case Type: The type of resources affected or extent of resources affected are not known Status: No leak action taken by responsible party after initial report of leak</p>			
E21 NW 1/8-1/4	SULLAIR PACIFIC 1618 DOOLITTLE DRIVE SAN LEANDRO, CA 94577	Cortese UST	U000056603 N/A
<p>CA UST ID#: 00000068847 Tank #: 1 Container #: #1 Capacity: 3000 Year Installed: N/A Tank Used for: WASTE Type of Fuel: N/A There are 4 other tank details available for this site.</p>			
E22 NW 1/8-1/4	GLAESER TRUCKING 1616 DOOLITTLE DRIVE SAN LEANDRO, CA 94577	Cortese UST	U000056528 N/A
<p>CA UST ID#: 00000068846 Tank #: 1 Container #: 7 Capacity: 1000 Year Installed: N/A Tank Used for: WASTE Type of Fuel: N/A</p>			
23 ENE 1/8-1/4	WEST COMPANY 2059 WILLIAMS STREET SAN LEANDRO, CA 94577	Cal-Sites	S100191772 N/A
<p>CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)</p>			
F24 SSE 1/8-1/4	SHELL MARINA BLVD (2175) SAN LEANDRO, CA 94577	Cortese	S100227018 N/A
F25 SSE 1/8-1/4	1X SHELL OIL STATION #20488521 MARINA BLVD (2175) SAN LEANDRO, CA 94577	Cortese	S100455865 N/A
F26 SSE 1/8-1/4	SHELL 2175 MARINA BLVD SAN LEANDRO, CA 94577	LUST	S100544341 N/A
<p>LUST: N/A</p>			

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
G27 NNW 1/4-1/2	ROUSE & ASSOCIATES 1555 DOOLITTLE DR SAN LEANDRO, CA 94577 LUST: Date Spilled: 19860923 Quantity: N/A Chemical(s): DIESEL Case Type: Ground water has been affected Status: Pollution characterization	LUST	S100226983 N/A
G28 NNW 1/4-1/2	1X MC LEAN TRUCKING DOOLITTLE DR (1555) SAN LEANDRO, CA 94501	Cortese	S100455820 N/A
G29 NNW 1/4-1/2	DELTA DOOLITTLE DR (1555) SAN LEANDRO, CA 94501	Cortese	S100455821 N/A
G30 NNW 1/4-1/2	ROUSE & ASSOCIATES DOOLITTLE DR (1555) SAN LEANDRO, CA 94501	Cortese	S100455822 N/A
H31 ESE 1/4-1/2	PACIFIC STEEL & SUPPLY MARINA BLVD (2011) SAN LEANDRO, CA 94577 LUST: Date Spilled: 19861009 Quantity: N/A Chemical(s): GASOLINE Case Type: Ground water has been affected Status: Preliminary site assessment underway	LUST Cortese	S100227017 N/A
H32 ESE 1/4-1/2	1X PACIFIC STEEL & SUPPLY MARINA BLVD (2011) SAN LEANDRO, CA 94577	Cortese	S100455864 N/A
G33 NNW 1/4-1/2	SIMPSON MANUFACTURING 1532 DOOLITTLE DR SAN LEANDRO, CA 94577 LUST: N/A	LUST	S100539555 N/A
I34 NNW 1/4-1/2	SIMPSON MANUFACTURING DOOLITTLE DR (1532) SAN LEANDRO, CA 94577	Cortese	S100272703 N/A
J35 ENE 1/4-1/2	W.S. ASSOCIATES 1964 WILLIAMS STREET SAN LEANDRO, CA 92584	Notify 65	S100179260 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
1 West < 1/8	<p>CHARLIE'S BEACON 1805 DOOLITTLE SAN LEANDRO, CA 94577</p> <p>CA UST ID#: 00000038114 Tank #: 1 Container #: 04 Capacity: 10000 Year Installed: 1970 Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: DIESEL There are 2 other tank details available for this site.</p>	UST	U000056501 N/A
A2 South < 1/8	<p>UNION OIL SS#3844 1903 DOOLITTLE DR. SAN LEANDRO, CA 94577</p> <p>CA UST ID#: 00000031663 Tank #: 1 Container #: 3844-1-1 Capacity: 5000 Year Installed: 1954 Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: UNLEADED There are 2 other tank details available for this site.</p>	Cortese UST	U000056613 N/A
A3 South < 1/8	<p>UNOCAL SVC STA #3844 1903 DOLITTLE DR SAN LEANDRO, CA 94577</p> <p>LUST: N/A</p> <p>CA UST ID#: 00000061421 Tank #: 1 Container #: 3844-10-1 Capacity: 00000000 Year Installed: N/A Tank Used for: WASTE Type of Fuel: N/A</p>	RCRIS-SQG FINDS LUST Cortese UST	1000167183 CAD982055238
B4 NW < 1/8	<p>WESTERN ELECTRIC COMPANY INCOR DOOLITTLE DR (1717) SAN LEANDRO, CA 94577</p> <p>CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)</p>	Cal-Sites Cortese	S100191987 N/A
B5 NW < 1/8	<p>AT&T 1717 DOOLITTLE DR SAN LORENZO, CA 94577</p> <p>LUST: N/A</p>	LUST	S100539396 N/A
B6 NW < 1/8	<p>AT&T INFORMATION SYSTEMS 1717 DOOLITTLE DRIVE SAN LEANDRO, CA 94577</p> <p>CA UST ID#: 00000015828 Tank #: 1 Container #: 1 Capacity: 400 Year Installed: 1954 Tank Used for: WASTE Type of Fuel: N/A There are 3 other tank details available for this site.</p>	FINDS Cortese RCRIS-LQG UST	1000392469 CAD041837295

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
J36 ENE 1/4-1/2	WILLIAMS STREET SITE 1964 WILLIAMS STREET SAN LEANDRO, CA 94577 CERCLIS Site Status: EPA has conducted a preliminary assessment on this site and has determined that no further action is necessary and no hazard was identified CERCLIS Last Assessment: SCREENING SITE INSPECTION Completed - 11/24/92 (For more information on this site, call your EDR Customer Service Rep.)	CERCLIS FINDS	1000483024 CAD983566761
K37 ESE 1/4-1/2	HAFHEY TRUCK LINES 2005 MARINA BOULEVARD SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191584 N/A
I38 NNW 1/4-1/2	DISTRIBUTION SYSTEMS INC 1501 DOOLITTLE DRIVE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191550 N/A
K39 ESE 1/4-1/2	OWENS-CORNING FIBERGLASS CORP MARINA BLVD (2001) SAN LEANDRO, CA 94577 LUST: Date Spilled: 19890918 Quantity: N/A Chemical(s): WASTE OIL Case Type: Ground water has been affected Status: Pollution characterization	LUST Cortese	S100227016 N/A
K40 ESE 1/4-1/2	OWENS-CORNING 2001 MARINA BOULEVARD SAN LEANDRO, CA 94577 CAL-SITES: N/A	Cal-Sites	S100538346 N/A
L41 ESE 1/4-1/2	CALTRANS EQUIPMENT SHOP 4 1993 MARINA BLVD SAN LEANDRO, CA 94177	RCRIS-SQG FINDS Cortese	1000419536 CAD982354318
L42 ESE 1/4-1/2	CALTRANS 1993 MARINA BLVD SAN LEANDRO, CA 94577 LUST: Date Spilled: 19861029 Quantity: N/A Chemical(s): DIESEL Case Type: The type of resources affected or extent of resources affected are not known Status: No leak action taken by responsible party after initial report of leak	LUST	S100227015 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
M43 WNW 1/4-1/2	CALI-FOAM CORPORATION OF AMERI POLVOROSA DR (2451) SAN LEANDRO, CA CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites Cortese	S100191088 N/A
M44 WNW 1/4-1/2	CRAIN PACIFIC 2435 POLVOROSA AVE SAN LEANDRO, CA 94577 LUST: Date Spilled: 19860701 Quantity: N/A Chemical(s): MISC MVF Case Type: Ground water has been affected Status: Remediation plan developed CA UST ID#: 00000063774 Tank #: 1 Container #: 1 Capacity: 10000 Year installed: 1978 Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: DIESEL	FINDS LUST Cortese RCRIS-LQG UST	1000255441 CAD041834383
45 West 1/4-1/2	HOSE FITTINGS & ECT 2487 POLVOROSA DRIVE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191705 N/A
46 ENE 1/4-1/2	LINCOLN PROPERTY COMPANY 1946-1958 WILLIAMS ST SAN LEANDRO, CA LUST: Date Spilled: 19891211 Quantity: N/A Chemical(s): DIESEL Case Type: Ground water has been affected Status: Preliminary site assessment underway	LUST	S100227052 N/A
N47 West 1/4-1/2	SMISER TRUCKING YARD 1755 AURORA DR SAN LEANDRO, CA 94577 LUST: N/A	LUST	S100503312 N/A
N48 West 1/4-1/2	CUMMINS WEST INC 1601 AURORA DRIVE SAN LEANDRO, CA 94577 LUST: N/A	FINDS LUST Cortese RCRIS-LQG	1000300232 CAD009458159

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
O49 NNW 1/4-1/2	ADHOR FARMS 1400 DOOLITTLE DR SAN LEANDRO, CA 94577 LUST: Date Spilled: 19831226 Quantity: N/A Chemical(s): WASTE OIL Case Type: Ground water has been affected Status: Preliminary site assessment underway	LUST	S100226981 N/A
O50 NNW 1/4-1/2	KNUDSEN CORPORATION 1400 DOOLITTLE DRIVE SAN LEANDRO, CA 94577 CA UST ID#: 00000006179 Tank #: 1 Container #: 7 Capacity: 10000 Year Installed: N/A Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: DIESEL There is 1 other tank detail available for this site.	Cortese UST	U000056541 N/A
O51 NNW 1/4-1/2	ADHOR FARMS DOOLITTLE DR (1400) SAN LEANDRO, CA	Cortese	S100184313 N/A
O52 NNW 1/4-1/2	ADNOR FARMS 1400 DOOLITTLE DR SAN LEANDRO, CA 94577 LUST: N/A	LUST	S100354713 N/A
O53 NNW 1/4-1/2	ADMOR FARMS DOOLITTLE DR (1400) SAN LEANDRO, CA	Cortese	S100473193 N/A
O54 NNW 1/4-1/2	ADMOR FARMS DOOLITTLE DR (1400) SAN LEANDRO, CA	Cortese	S100473194 N/A
55 ENE 1/4-1/2	OLIN TOOL & MACHINE INC 1933 WILLIAMS STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191288 N/A
56 South 1/4-1/2	BEARDSLEY'S BLACK OXIDE 2389 WEST AVENUE 134TH SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191155 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
57 East 1/4-1/2	INGERSOLL RAND EQUIPMENT SALES 1944 MARINA BLVD. SAN LEANDRO, CA 94577	Notify 65 LUST Cortese UST	U000056533 N/A
	LUST: Date Spilled: 19891102 Quantity: N/A Chemical(s): GASOLINE Case Type: Ground water has been affected Status: Preliminary site assessment underway CA UST ID#: 00000000864 Tank #: 1 Container #: 1 Capacity: 5000 Year Installed: N/A Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: UNLEADED There are 2 other tank details available for this site.		
P58 NNW 1/4-1/2	LINCOLN PROPERTY DOOLITTLE DR (1345) SAN LEANDRO, CA	LUST Cortese	S100226979 N/A
	LUST: Date Spilled: 19890510 Quantity: N/A Chemical(s): GASOLINE Case Type: Ground water has been affected Status: Remedial action (cleanup) in progress		
P59 NNW 1/4-1/2	1X CORROBILT DOOLITTLE DR (1345) SAN LEANDRO, CA	Cortese	S100472288 N/A
P60 NNW 1/4-1/2	1X NALCO GENERATOR DOOLITTLE DR (1345) SAN LEANDRO, CA	Cortese	S100472726 N/A
P61 NNW 1/4-1/2	VERSAR INCORPORATED DOOLITTLE DR (1345) SAN LEANDRO, CA	Cal-Sites Cortese	S100350471 N/A
	CAL-SITES Status: PEARL (PEA REQUIRED, LOW PRIORITY)		
P62 NNW 1/4-1/2	FIRST WESTERN GRAPHICS DOOLITTLE DR (1345) SAN LEANDRO, CA	Cortese	S100474310 N/A
P63 NNW 1/4-1/2	1X HASLETT CO. DOOLITTLE DR (1345) SAN LEANDRO, CA	Cortese	S100472500 N/A
P64 NNW 1/4-1/2	1X ICI AMERICAS INC DOOLITTLE DR (1345) SAN LEANDRO, CA	Cortese	S100472532 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
P65 NNW 1/4-1/2	1X LINCOLN PROPERTY CO. DOOLITTLE DR (1345) SAN LEANDRO, CA	Cortese	S100472621 N/A
Q66 West 1/4-1/2	GOLDENBERG PROPERTY NEPTUNE DR (1791) SAN LEANDRO, CA 94577 LUST: Date Spilled: 19880201 Quantity: N/A Chemical(s): WASTE OIL Case Type: The type of resources affected or extent of resources affected are not known Status: No leak action taken by responsible party after initial report of leak	LUST Cortese	S100227025 N/A
Q67 West 1/4-1/2	MAJOR SALVAGE CO 1770 NEPTUNE DR SAN LEANDRO, CA 94577 CERCLIS Site Status: EPA has conducted a preliminary assessment on this site and has determined that no further action is necessary and no hazard was identified CERCLIS Last Assessment: PRELIMINARY ASSESSMENT Completed - 12/01/87 Other Pertinent Environmental Activity Identified at Site: civil judicial and administrative enforcement cases against facility CAL-SITES Status: CERT (CERTIFIED) (For more information on this site, call your EDR Customer Service Rep.)	Cal-Sites CERCLIS FINDS	1000340652 CAD980817449
Q68 West 1/4-1/2	RUAN LEASING NEPTUNE DR (1791) SAN LEANDRO, CA 94577	Cortese	S100455872 N/A
Q69 West 1/4-1/2	1X ALLEN W. GOLDENBURG NEPTUNE DR (1791) SAN LEANDRO, CA 94577	Cortese	S100455871 N/A
P70 NNW 1/4-1/2	FIRST WESTERN GRAPHIC 1345A DOOLITTLE DR SAN LEANDRO, CA 94577 Other Pertinent Environmental Activity Identified at Site: facility has an emission permit under the Clean Air Act	RCRIS-SQG FINDS Cortese	1000387464 CAD982478893
P71 NNW 1/4-1/2	PPG/HASLETT COMPANY 1345 DOOLITTLE DRIVE SAN LEANDRO, CA 94577	FINDS Cortese RCRIS-LQG	1000141243 CAT080032568
72 ENE 1/2-1	M A C TRANSPORTATION 1904 WILLIAMS STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191552 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
73 East 1/2-1	INTRUSION DETECTION SYSTEMS INC 2321 VERNA COURT SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191518 N/A
R74 NNW 1/2-1	PRESCOLITE 1251 DOOLITTLE DR SAN LEANDRO, CA 94577 Other Pertinent Environmental Activity Identified at Site: facility has an emission permit under the Clean Air Act facility is involved with pesticide/toxic substances production LUST: Date Spilled: 19861111 Quantity: N/A Chemical(s): GASOLINE Case Type: The type of resources affected or extent of resources affected are not known Status: No leak action taken by responsible party after initial report of leak CA UST ID#: 00000029721 Tank #: 1 Container #: 1 Capacity: 1000 Year Installed: 1974 Tank Used for: PRODUCT Type of Fuel: UNLEADED	FINDS LUST Cortese RCRIS-LQG UST	1000378372 CAD009139718
R75 NNW 1/2-1	PRESCOLITE DIV OF USI NC DOOLITTLE DR (1251) SAN LEANDRO, CA 94577	Cortese	S100455819 N/A
76 ENE 1/2-1	NORTH AMERICAN EQUIPMENT COMPANY 2000 MERCED STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191692 N/A
77 ENE 1/2-1	MERIT MACHINE SHOP 1890 WILLIAMS STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191386 N/A
S78 ESE 1/2-1	T B WOODS SON & COMPANY 1976 REPUBLIC AVENUE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191723 N/A
S79 ESE 1/2-1	AEROFLOW INDUSTRIES 1970 REPUBLIC SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191374 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
T80 ENE 1/2-1	EMPIRE PATTERN SHOP 1777 TIMOTHY STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191392 N/A
T81 ENE 1/2-1	C SHORE SALES 1785 TIMOTHY STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191742 N/A
T82 ENE 1/2-1	MIDDLETON WELDERS SUPPLY CO. 1771 TIMOTHY DR. SAN LEANDRO, CA 94577 CA UST ID#: 00000013708 Tank #: 1 Container #: 01 Capacity: 1000 Year Installed: N/A Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: UNLEADED There is 1 other tank detail available for this site.	Cortese UST	U000056560 N/A
T83 ENE 1/2-1	TRAFFIC SAFETY SERVICE 1759 TIMOTHY STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191679 N/A
U84 NE 1/2-1	DIAMOND MANUFACTURING CORPORAT 1763 TIMOTHY DRIVE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC) CA UST ID#: 00000045730 Tank #: 1 Container #: 1 Capacity: 550 Year Installed: 1965 Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: REGULAR There is 1 other tank detail available for this site.	Cal-Sites UST	U000056514 N/A
U85 NE 1/2-1	BAY AREA ELECTRIC 1734 TIMOTHY STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191990 N/A
U86 NE 1/2-1	SPACEMAKER DOOR INC 1710 TIMOTHY STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191097 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
U87 NE 1/2-1	SCOTLA TOOL & M/C INC 1720 TIMOTHY STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191387 N/A
88 NE 1/2-1	UHER & WHIPPLE MECHANICAL LABORATORIES 1700 TIMOTHY STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191389 N/A
89 East 1/2-1	AMERICAN STANDARD INDUSTRIES 1900 MARINA BOULEVARD SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191345 N/A
90 NE 1/2-1	WESTERN SEALANT NORTHERN CALIFORNIA 1666 TIMOTHY DR SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites RCRIS-SQG FINDS	1000403201 CAD982018905
V91 NNW 1/2-1	W R GRACE COMPANY DAVIS ST (2140) SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites Cortese	S100191149 N/A
V92 NNW 1/2-1	WR GRACE & COMPANY DAVIS ST (2140) SAN LEANDRO, CA 94577 LUST: Date Spilled: 19850409 Quantity: N/A Chemical(s): MISC MVF Case Type: Ground water has been affected Status: Pollution characterization	LUST Cortese	S100226971 N/A
V93 NNW 1/2-1	BAY EXTRUSIONS INC 2122 DAVIS STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191245 N/A
W94 NNW 1/2-1	BAYCO INDUSTRIES OF CALIFORNIA 2108 DAVIS ST SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites RCRIS-SQG FINDS	1000176852 CAD981397078

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
W95 NNW 1/2-1	ALLIED SUPPLY COMPANY 2100 DAVIS STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191703 N/A
V96 NNW 1/2-1	W. R. GRACE & CO. CONN. DEWEY & ALMY CHEMICAL DIV. 2140 DAVIS ST. SAN LEANDRO, CA 94577 CA UST ID#: 00000014498 Tank #: 1 Container #: T-11 Capacity: 30000 Year Installed: 1970 Tank Used for: PRODUCT Type of Fuel: N/A There are 8 other tank details available for this site.	FINDS Cortese RCRIS-LQG TRIS UST	1000352279 CAD080708050
V97 NNW 1/2-1	GRACE W. R. & CO. DAVIS ST (2140) SAN LEANDRO, CA 94577	Cortese	S100455809 N/A
V98 NNW 1/2-1	1X W.R. GRACE DAVIS ST (2140) SAN LEANDRO, CA 94577	Cortese	S100455808 N/A
V99 NNW 1/2-1	W R GRACE & CO DAVIS ST (2140) SAN LEANDRO, CA 94577	Cortese	S100455807 N/A
X100 ESE 1/2-1	BRANDT MACHINE WORKS 1946 REPUBLIC AVENUE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191370 N/A
101 NNW 1/2-1	AMCO PIPE / COWNEY VALUE 2002 DAVIS STREET SAN LEANDRO, CA 94577 CAL-SITES Status: PEARL (PEA REQUIRED, LOW PRIORITY)	Cal-Sites	S100350478 N/A
Y102 ENE 1/2-1	MGC (SULLIVAN & BRAMPTON) ABRAM CT (1888) SAN LEANDRO, CA	Cortese	S100272701 N/A
Y103 ENE 1/2-1	WATLUIDE FILTER 1677 ABRAM COURT SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191485 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
Z104 SSE 1/2-1	92252 13700 DOOLITTLE DR SAN LEANDRO, CA 94577 CA UST ID#: 00000062220 Tank #: 1 Container #: 1 Capacity: 8200 Year Installed: 1965 Tank Used for: PRODUCT Type of Fuel: N/A There are 3 other tank details available for this site.	Cortese UST	U000056485 N/A
105 East 1/2-1	YALE MATERIAL HANDLING 2303 MERCED SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites FINDS RCRIS-LQG	1000197521 CAD981572688
Y106 ENE 1/2-1	ANDERSON-HUXLEY ASSOCIATES 1654 ABRAM COURT SAN LEANDRO, CA 94577 CAL-SITES: N/A	Cal-Sites	S100538375 N/A
Z107 SSE 1/2-1	CHEVRON DOOLITTLE DR (13700) SAN LEANDRO, CA LUST: Date Spilled: 19860509 Quantity: N/A Chemical(s): WASTE OIL Case Type: The type of resources affected or extent of resources affected are not known Status: No leak action taken by responsible party after initial report of leak	LUST Cortese	S100226980 N/A
X108 ESE 1/2-1	PASCO SCIENTIFIC 1933 REPUBLIC AVENUE SAN LEANDRO, CA 94577 CAL-SITES Status: PEARM (PEA REQUIRED, MEDIUM PRIORITY)	Cal-Sites	S100350488 N/A
109 NW 1/2-1	KUHL MFG CO. INC. 2424 DAVIS STREET SAN LEANDRO, CA 94577 CA UST ID#: 00000052543 Tank #: 1 Container #: 1 Capacity: 00000000 Year Installed: N/A Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: UNLEADED There is 1 other tank detail available for this site.	Cortese UST	U000056543 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
110 NNW 1/2-1	SEBRING TRANSPORT INC. 2100 CARDEN ST. SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC) CA UST ID#: 00000023469 Tank #: 1 Container #: 1 Capacity: 10000 Year Installed: N/A Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: DIESEL There is 1 other tank detail available for this site.	Cal-Sites UST	U000056596 N/A
111 ENE 1/2-1	QUALITY CANVAS INC 1611 ABRAM COURT SAN LEANDRO, CA 94577 CAL-SITES: N/A	Cal-Sites	S100538365 N/A
AA112 NW 1/2-1	M & H CHEMICAL 2386 DAVIS STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191148 N/A
AB113 North 1/2-1	LASLEYS' TRUCK STATION 1946 DAVIS STREET SAN LEANDRO, CA 94577 LUST: Date Spilled: 19890308 Quantity: N/A Chemical(s): DIESEL Case Type: Ground water has been affected Status: Pollution characterization CA UST ID#: 00000066689 Tank #: 1 Container #: 1 Capacity: 10500 Year Installed: N/A Tank Used for: WASTE Type of Fuel: N/A There are 3 other tank details available for this site.	LUST Cortese UST	U000056545 N/A
AB114 North 1/2-1	1X LASLEYS TRUCK STOP DAVIS ST (1946) SAN LEANDRO, CA	Cortese	S100472610 N/A
AB115 North 1/2-1	FREDS TRUCK DAVIS ST (1946) SAN LEANDRO, CA	Cortese	S100474338 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number																		
AA116 NW 1/2-1	M & S MECHANICAL INC 2420 DAVIS ST SAN LEANDRO, CA 94577	Cal-Sites CERCLIS FINDS RCRIS-LQG UST	1000130756 CAD066552316																		
	<p>CERCLIS Site Status: EPA has conducted a preliminary assessment on this site and has determined that no further action is necessary and no hazard was identified</p> <p>CERCLIS Last Assessment: PRELIMINARY ASSESSMENT Completed - 02/01/85</p> <p>CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)</p> <p>CA UST ID#: 00000052542</p> <table border="0"> <tr> <td>Tank #:</td> <td>1</td> <td>Container #:</td> <td>1</td> <td>Capacity:</td> <td>2000</td> </tr> <tr> <td>Year Installed:</td> <td>N/A</td> <td>Tank Used for:</td> <td>PRODUCT</td> <td>Tank contains:</td> <td>motor fuel or waste oil</td> </tr> <tr> <td>Type of Fuel:</td> <td colspan="5">UNLEADED</td> </tr> </table> <p>(For more information on this site, call your EDR Customer Service Rep.)</p>			Tank #:	1	Container #:	1	Capacity:	2000	Year Installed:	N/A	Tank Used for:	PRODUCT	Tank contains:	motor fuel or waste oil	Type of Fuel:	UNLEADED				
Tank #:	1	Container #:	1	Capacity:	2000																
Year Installed:	N/A	Tank Used for:	PRODUCT	Tank contains:	motor fuel or waste oil																
Type of Fuel:	UNLEADED																				
AC117 East 1/2-1	FABRICATED METALS INC 2401 MERCED ST SAN LEANDRO, CA 94577	Cal-Sites RCRIS-SQG FINDS UST	1000360813 CAD009135708																		
	<p>CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)</p> <p>CA UST ID#: 00000033025</p> <table border="0"> <tr> <td>Tank #:</td> <td>1</td> <td>Container #:</td> <td>01</td> <td>Capacity:</td> <td>500</td> </tr> <tr> <td>Year Installed:</td> <td>1954</td> <td>Tank Used for:</td> <td>PRODUCT</td> <td>Tank contains:</td> <td>motor fuel or waste oil</td> </tr> <tr> <td>Type of Fuel:</td> <td colspan="5">UNLEADED</td> </tr> </table>			Tank #:	1	Container #:	01	Capacity:	500	Year Installed:	1954	Tank Used for:	PRODUCT	Tank contains:	motor fuel or waste oil	Type of Fuel:	UNLEADED				
Tank #:	1	Container #:	01	Capacity:	500																
Year Installed:	1954	Tank Used for:	PRODUCT	Tank contains:	motor fuel or waste oil																
Type of Fuel:	UNLEADED																				
AA118 NW 1/2-1	OAKLAND SCAVENGER TRANSFER STA 2615 DAVIS ST SAN LEANDRO, CA 94577	RCRIS-SQG Cortese	1000277336 CAD982347122																		
AC119 East 1/2-1	AERVOE-PACIFIC CO INC 2424 MERCED ST SAN LEANDRO, CA 94577	Cal-Sites FINDS LUST Cortese RCRIS-LQG UST	1000433489 CAD094869088																		
	<p>LUST:</p> <p>Date Spilled: 19860902 Quantity: N/A</p> <p>Chemical(s): MISC MVF</p> <p>Case Type: The type of resources affected or extent of resources affected are not known</p> <p>Status: Preliminary site assessment workplan submitted</p> <p>CAL-SITES Status: PEARL (PEA REQUIRED, LOW PRIORITY)</p> <p>CA UST ID#: 00000003337</p> <table border="0"> <tr> <td>Tank #:</td> <td>1</td> <td>Container #:</td> <td>10</td> <td>Capacity:</td> <td>6000</td> </tr> <tr> <td>Year Installed:</td> <td>1966</td> <td>Tank Used for:</td> <td>PRODUCT</td> <td></td> <td></td> </tr> <tr> <td>Type of Fuel:</td> <td colspan="5">N/A</td> </tr> </table> <p>There are 2 other tank details available for this site.</p>			Tank #:	1	Container #:	10	Capacity:	6000	Year Installed:	1966	Tank Used for:	PRODUCT			Type of Fuel:	N/A				
Tank #:	1	Container #:	10	Capacity:	6000																
Year Installed:	1966	Tank Used for:	PRODUCT																		
Type of Fuel:	N/A																				

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
120 SSE 1/2-1	FOUR SEASONS CLEANERS 13778 DOOLITTLE DR SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites RCRIS-SQG FINDS	1000351774 CAD981580202
AD121 North 1/2-1	KAISER ALUMINUM ELECTRICAL PRO 1937 DAVIS STREET SAN LEANDRO, CA 94577 CA UST ID#: 00000000645 Tank #: 1 Container #: T-1 PEROXl Capacity: 5000 Year installed: 1983 Tank Used for: PRODUCT Type of Fuel: N/A There are 3 other tank details available for this site.	Cortese UST	U000056540 N/A
AD122 North 1/2-1	KAISER ALUMINUM & CHEMICAL CO DAVIS ST (1937) SAN LEANDRO, CA 94577	Cortese	S100455805 N/A
AD123 North 1/2-1	ALUSERVE ELECTRICAL PRODUCTS 1937 DAVIS ST SAN LEANDRO, CA 94577	RCRIS-SQG FINDS Cortese	1000380477 CAD055505333
AD124 North 1/2-1	1X KAISER ALUMINUM & CHEMICAL DAVIS ST (1937) SAN LEANDRO, CA 94577	Cortese	S100455806 N/A
AE125 NW 1/2-1	WEBSCO AUTOMOTIVE PRODUCTS 2512 DAVIS STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191971 N/A
AE126 NW 1/2-1	DIX CHEMICAL / PEABODY TESTING 2506 DAVIS SAN LEANDRO, CA 94577 CERCLIS Site Status: EPA has conducted a preliminary assessment on this site and has determined that no further action is necessary and no hazard was identified CERCLIS Last Assessment: PRELIMINARY ASSESSMENT Completed - 10/06/89 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC) (For more information on this site, call your EDR Customer Service Rep.)	Cal-Sites CERCLIS FINDS	1000106883 CAD982358780
AF127 East 1/2-1	LUCY STORES INC MARINA BLVD (1701) SAN LEANDRO, CA 94577	Cortese	S100455862 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
AF128 East 1/2-1	GEMCO STORES 1701 MARINA BLVD SAN LEANDRO, CA 94577 Other Pertinent Environmental Activity Identified at Site: facility is involved with pesticide/toxic substances production	FINDS Cortese	1000592464 CAD981616097
AF129 East 1/2-1	LUCKY STORES-BAKERY MARINA BLVD (1701) SAN LEANDRO, CA 94577	Cortese	S100455863 N/A
AF130 East 1/2-1	LUCKY DISTRIBUTION MARINA BLVD (1701) SAN LEANDRO, CA 94577	Cortese	S100227014 N/A
AD131 North 1/2-1	1X THE HOME DEPOT DAVIS ST (1933) SAN LEANDRO, CA 94577	Cortese	S100455802 N/A
AD132 North 1/2-1	HOME DEPOT THE #625 DAVIS ST (1933) SAN LEANDRO, CA 94577	Cortese	S100455804 N/A
AD133 North 1/2-1	INTERNATIONAL HARVESTOR 1933 DAVIS ST SAN LEANDRO, CA 94577 Other Pertinent Environmental Activity Identified at Site: facility has an emission permit under the Clean Air Act	FINDS Cortese	1000591708 CAD980380893
AD134 North 1/2-1	1X MONARCH VENTURES DAVIS ST (1933) SAN LEANDRO, CA 94577	Cortese	S100455803 N/A
AD135 North 1/2-1	WESTGATE PROJECT DAVIS ST (1933) SAN LEANDRO, CA 94577 LUST: Date Spilled: 19870622 Quantity: N/A Chemical(s): GASOLINE Case Type: The type of resources affected or extent of resources affected are not known Status: No leak action taken by responsible party after initial report of leak	LUST Cortese	S100226969 N/A
AD136 North 1/2-1	CATERPILLAR TRACTOR CO 1933 DAVIS ST SAN LEANDRO, CA 94577	FINDS Cortese RCRIS-LQG	1000217336 CAT080010937

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
AF137 East 1/2-1	LUCKY STORES, INC 1701 MARINA BLVD SAN LEANDRO, CA 94577	RCRIS-SQG FINDS LUST Cortese UST	1000273488 CAD021765938
<p>Other Pertinent Environmental Activity Identified at Site: facility is involved with pesticide/toxic substances production</p> <p>LUST: Date Spilled: 19860704 Quantity: N/A Chemical(s): GASOLINE Case Type: Ground water has been affected Status: Preliminary site assessment underway</p> <p>CA UST ID#: 00000011521 Tank #: 1 Container #: SL-D2-1 Capacity: 12000 Year Installed: N/A Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: DIESEL There are 14 other tank details available for this site.</p>			
AG138 ESE 1/2-1	PACIFIC ELECTRIC SUPPLY REPUBLIC (1908) SAN LEANDRO, CA 94577	Cortese	S100455887 N/A
AG139 ESE 1/2-1	1X PACIFIC ELECTRICAL SUPPLY REPUBLIC (1908) SAN LEANDRO, CA 94577	Cortese	S100455886 N/A
AH140 ESE 1/2-1	D C M INTERNATIONAL 2555 NICHOLSON STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191520 N/A
AH141 ESE 1/2-1	CONROY SALES INC 2559 NICHOLSON STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191721 N/A
142 SSE 1/2-1	PENHALL COMPANY 13750 CATALINA ST. SAN LEANDRO, CA 94577	LUST Cortese UST	U000056572 N/A
<p>LUST: Date Spilled: 19830601 Quantity: N/A Chemical(s): GASOLINE Case Type: Ground water has been affected Status: Preliminary site assessment underway</p> <p>CA UST ID#: 00000041938 Tank #: 1 Container #: 1 Capacity: 10000 Year Installed: 1984 Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: UNLEADED There is 1 other tank detail available for this site.</p>			

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
AI143 NW 1/2-1	BAY CITY DSPL CO 2615 DAVIS ST SAN LEANDRO, CA 94577	Cal-Sites CERCLIS FINDS Cortese	1000483345 CAD982347122
	<p>CERCLIS Site Status: EPA has conducted a preliminary assessment on this site and has determined that no further action is necessary and no hazard was identified</p> <p>CERCLIS Last Assessment: PRELIMINARY ASSESSMENT Completed - 05/01/85</p> <p>CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)</p> <p>(For more information on this site, call your EDR Customer Service Rep.)</p>		
AI144 NW 1/2-1	DAVIS STREET TRANSFER STATION 2615 DAVIS STREET SAN LEANDRO, CA 94577	LUST SWIS Cortese UST	U000056510 N/A
	<p>LUST:</p> <p>Date Spilled: 19900206 Quantity: N/A</p> <p>Chemical(s): MISC MVF</p> <p>Case Type: Ground water has been affected</p> <p>Status: No leak action taken by responsible party after initial report of leak</p> <p>CA UST ID#: 00000016455</p> <p>Tank #: 1 Container #: TS-12-09 Capacity: 12000</p> <p>Year Installed: 1979 Tank Used for: PRODUCT Tank contains: motor fuel or waste oil</p> <p>Type of Fuel: DIESEL</p> <p>There are 6 other tank details available for this site.</p>		
145 North 1/2-1	INDUSTRIAL FREIGHT SYSTEMS 1884 DAVIS STREET SAN LEANDRO, CA 94577	Cal-Sites	S100191630 N/A
	<p>CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)</p>		
AI146 NW 1/2-1	1X OAKLAND SCAVENGER SERVICE DAVIS ST (2615) SAN LEANDRO, CA 94577	Cortese	S100455812 N/A
AI147 NW 1/2-1	OAKLAND SCAVENGER CO DAVIS ST (2615) SAN LEANDRO, CA 94577	Cortese	S100455813 N/A
AI148 NW 1/2-1	1X DAVIS STREET TRANSFER STATI DAVIS ST (2615) SAN LEANDRO, CA 94577	Cortese	S100455814 N/A
149 North 1/2-1	ALEXANDER'S MOVING AND STORAGE 1066 BEECHER STREET SAN LEANDRO, CA 94577	Cal-Sites	S100191563 N/A
	<p>CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)</p>		

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
150 ESE 1/2-1	MONTGOMERY WARD 1951 FAIRWAY DRIVE SAN LEANDRO, CA 94577 CAL-SITES: N/A	Cal-Sites	S100538367 N/A
AJ151 ESE 1/2-1	SAN LEANDRO DISPOSAL, INC. NICHOLSON (2628) SAN LEANDRO, CA 94577	Cortese	S100455875 N/A
AJ152 ESE 1/2-1	MED-PATH-DIV OF SAN LEANDRO DI NICHOLSON (2628) SAN LEANDRO, CA 94577	Cortese	S100455874 N/A
AJ153 ESE 1/2-1	SAN LEANDRO DISPOSAL NICHOLSON (2628) SAN LEANDRO, CA 94577	Cortese	S100455876 N/A
AJ154 ESE 1/2-1	1X SAN LEANDRO DISPOSAL INC NICHOLSON (2628) SAN LEANDRO, CA 94577	Cortese	S100455873 N/A
AK155 ESE 1/2-1	FRITO-LAY INC 1943 FAIRWAY DRIVE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191086 N/A
AL156 NNW 1/2-1	BAY COUNTY PROPERTIES DOOLITTLE DR (900) SAN LEANDRO, CA 94577 LUST: Date Spilled: 19860306 Quantity: N/A Chemical(s): WASTE OIL Case Type: Ground water has been affected Status: Pollution characterization	LUST Cortese	S100226985 N/A
AJ157 ESE 1/2-1	SAN LEANDRO SPECIALTY 2654 NICHOLSON STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191382 N/A
AL158 NNW 1/2-1	SPEEDMASTER ENGINEERING DOOLITTLE DR (900) SAN LEANDRO, CA 94577	Cortese	S100455817 N/A
AL159 NNW 1/2-1	1X BAY COUNTIES PROPERTY DOOLITTLE DR (900) SAN LEANDRO, CA 94577	Cortese	S100455816 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
AL160 NNW 1/2-1	LIKIT WINDOWS INC 888 DOOLITTLE DR SAN LEANDRO, CA 94577	RCRIS-SQG FINDS LUST Cortese	1000263879 CAD981994510
<p>LUST:</p> <p>Date Spilled: 19861129 Quantity: N/A</p> <p>Chemical(s): GASOLINE</p> <p>Case Type: Ground water has been affected</p> <p>Status: Preliminary site assessment underway</p>			
AL161 NNW 1/2-1	1X JOSEPH ZATKIN DOOLITTLE DR (900) SAN LEANDRO, CA 94577	Cortese	S100455818 N/A
AK162 ESE 1/2-1	LATCHFORD GLASS CO 1940 FAIRWAY DR SAN LEANDRO, CA 94577	Cal-Sites FINDS RCRIS-LQG TSCA	1000170736 CAD009145046
<p>Other Pertinent Environmental Activity Identified at Site: facility has an emission permit under the Clean Air Act</p> <p>CAL-SITES Status: PEARL (PEA REQUIRED, LOW PRIORITY)</p>			
AL163 NNW 1/2-1	KAISER AEROTECH 880 DOOLITTLE DR SAN LEANDRO, CA 94577	Cal-Sites FINDS RCRIS-LQG	1000380339 CAD009460767
<p>CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)</p>			
164 NNW 1/2-1	DIAGRAPH-BRADLEY DISTRIBUTING CO INC 990 CARDEN STREET SAN LEANDRO, CA 94577	Cal-Sites	S100191134 N/A
<p>CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)</p>			
AM165 North 1/2-1	PETERS TRUCK LINES 993 BEECHER STREET SAN LEANDRO, CA 94577	Cal-Sites UST	U000056573 N/A
<p>CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)</p> <p>CA UST ID#: 00000010322</p> <p>Tank #: 1 Container #: #7 Capacity: 10000</p> <p>Year Installed: 1979 Tank Used for: PRODUCT Tank contains: motor fuel or waste oil</p> <p>Type of Fuel: DIESEL</p> <p>There is 1 other tank detail available for this site.</p>			

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
AM166 North 1/2-1	ATLAS FREIGHT CO. BEECHER ST (993) SAN LEANDRO, CA 94577 LUST: Date Spilled: 19880130 Quantity: N/A Chemical(s): DIESEL Case Type: Ground water has been affected Status: No leak action taken by responsible party after initial report of leak	LUST Cortese	S100226961 N/A
AM167 North 1/2-1	1X TRANSPORTATION TERMINAL BEECHER ST (993) SAN LEANDRO, CA 94577	Cortese	S100455798 N/A
AL168 NNW 1/2-1	NOR-CAL SEAL COMPANY 840 DOOLITTLE DRIVE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191719 N/A
AL169 NNW 1/2-1	WALSH PROPERTY DOOLITTLE DR (844) SAN LEANDRO, CA 94577 LUST: Date Spilled: 19880602 Quantity: N/A Chemical(s): GASOLINE Case Type: The type of resources affected or extent of resources affected are not known Status: No leak action taken by responsible party after initial report of leak	LUST Cortese	S100226974 N/A
AM170 North 1/2-1	(1X) FUEL TANKS BEECHER ST (990) SAN LEANDRO, CA 94577	Cortese	S100455797 N/A
AM171 North 1/2-1	CALIFORNIA DEVELOPMENT COMPANY BEECHER ST (990) SAN LEANDRO, CA 94577	Cortese	S100226962 N/A
AM172 North 1/2-1	MILLER MATERIALS CO 990 BEECHER ST SAN LEANDRO, CA 94577	FINDS Cortese RCRIS-LQG	1000280953 CAD066566860

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
173 ESE 1/2-1	REYNOLDS & BROWN 2565 MERCED STREET SAN LEANDRO, CA 94577 LUST: Date Spilled: 19860924 Quantity: N/A Chemical(s): MISC MVF Case Type: The type of resources affected or extent of resources affected are not known Status: No leak action taken by responsible party after initial report of leak CA UST ID#: 00000002311 Tank #: 1 Container #: 002 Capacity: 3000 Year Installed: N/A Tank Used for: PRODUCT Type of Fuel: UNLEADED There is 1 other tank detail available for this site.	LUST Cortese UST	U000056578 N/A
AN174 NW 1/2-1	1X ERNIE HONNER DAVIS ST (2800) SAN LEANDRO, CA 94577	Cortese	S100455810 N/A
AN175 NW 1/2-1	HOHENER MEAT COMPANY, INC. DAVIS ST (2800) SAN LEANDRO, CA 94577	Cortese	S100455811 N/A
AO176 ESE 1/2-1	APSCO MANUFACTURING 1925 FAIRWAY DRIVE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191373 N/A
AO177 ESE 1/2-1	AMERICAN IMPORT-EXPORT 1917 FAIRWAY DRIVE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191702 N/A
AP178 SSE 1/2-1	PPG INDUSTRIES 14100 DOOLITTLE DR SAN LEANDRO, CA 94577	FINDS Cortese RCRIS-LQG	1000119968 CAD981158926
179 NNW 1/2-1	L J WALCH CO INC 844 DOOLITTLE DR SAN LEANDRO, CA 94577	RCRIS-SQG FINDS Cortese	1000135972 CAD981694615
AP180 SSE 1/2-1	TRIPLE 8 MANUFACTURING INC DOOLITTLE DR (14100) SAN LEANDRO, CA 94577	Cortese	S100455830 N/A
AP181 SSE 1/2-1	TRIPLE 8 MANUFACTURING INC DOOLITTLE DR (14100) SAN LEANDRO, CA 94577	Cortese	S100455829 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
AP182 SSE 1/2-1	1X CGA CORP DOOLITTLE DR (14100) SAN LEANDRO, CA 94577	Cortese	S100455831 N/A
183 SSE 1/2-1	RICHARD GREEN INC 14025 CATALINA STREET SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191962 N/A
AP184 SSE 1/2-1	C G A CORPORATION DOOLITTLE DR (14100) SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites Cortese	S100191287 N/A
AP185 SSE 1/2-1	DON ELGIE PROPERTY DOOLITTLE DR (14100) SAN LEANDRO, CA 94577 LUST: Date Spilled: 19890918 Quantity: N/A Chemical(s): GASOLINE Case Type: Ground water has been affected Status: Preliminary site assessment underway	LUST Cortese	S100226982 N/A
186 SW 1/2-1	SAN LEANDRO MARINE CENTER SAN LEANDRO MARINA (80) SAN LEANDRO, CA 94577 CAL-SITES Status: CNTY (COUNTY LEAD)	Cal-Sites Cortese	S100184331 N/A
AQ187 SSE 1/2-1	COAST LINES INC 14200 DOOLITTLE DRIVE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191549 N/A
188 SE 1/2-1	CASINGS 2015 WEST 140TH AVENUE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191320 N/A
AQ189 SSE 1/2-1	S T B TRANSFORMER 14232 DOOLITTLE DRIVE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191477 N/A

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
AR190 ESE 1/2-1	WEST COAST LEASEWAY 1980 WEST 140TH AVENUE SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC)	Cal-Sites	S100191547 N/A
AR191 ESE 1/2-1	ABRASIVES UNLIMITED INC. 1941 WEST AVE. 140TH SAN LEANDRO, CA 94577 CAL-SITES Status: NFA (NO FURTHER ACTION FOR DTSC) CA UST ID#: 00000046806 Tank #: 1 Container #: 1 Capacity: 3000 Year Installed: 1976 Tank Used for: PRODUCT Tank contains: motor fuel or waste oil Type of Fuel: UNLEADED	Cal-Sites UST	U000056487 N/A

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
OAKLAND	S100276541		100 77TH AVENUE	94621	M
OAKLAND	S100277691		6201 CABLESON WAY	94621	M
OAKLAND	S100278433		N/B DOOLITTLE ROAD AT LANGE	94621	M
OAKLAND	S100276591		7700 HOWLEY STREET	94621	M
OAKLAND	S100275356		S.B. HWY 880 @ 5TH AVE. OVER	94621	M
OAKLAND	S100276219		I-880 N/B 105TH STREET, NORTH	94621	M
OAKLAND	S100191594	TRANS-BOX SYSTEMS	OAKLAND INTERNATIONAL AIRP	94621	A
OAKLAND	S100275756		OAKLAND INT. AIRPORT	94621	M
OAKLAND	1000256666	BUSINESS AIRCRAFT DISTR	OAKLAND ARPT	94621	ACI
OAKLAND	1000187051	GOLDEN GATE AVIATION	OAKLAND ARPT	94621	ACI
OAKLAND	1000251904	PACIFIC AIRMOTIVE	OAKLAND ARPT	94621	ACI
OAKLAND	S100191963	GUHL MANUFACTURING	7001 SNELL STREET	94621	A
SAN LEANDRO	U000056555	MAINTENANCE DEPARTMENT	1145 ALADDIN AVENUE	94577	OU
SAN LEANDRO	S100538362	SINGER FRIDEN	2350 AND 2450 WASHINGTON AV	94577	A
SAN LEANDRO	S100276774		EAST DAIVS STREET AND I-880	94577	M
SAN LEANDRO	S100226967	FERMA CORPORATION	DAVIS ST (NO STREET NBR)		KO
SAN LEANDRO	S100226978	POLVOROSA BUSINESS PARK	DOOLITTLE DR	94577	K
SAN LEANDRO	S100191660	TURK ISLAND	5000 FEET SOUTH OF MARINA BI	94577	A
SAN LEANDRO	1000255651	MARINA DSPL SITE	FOOT OF MARINA BLVD-NEPTUN	94577	ACI
SAN LEANDRO	1000385091	HUDSON ICS	400 HUDSON LANE	94577	AGIKOU
SAN LEANDRO	S100222648		LEWELLING BLVD		M
SAN LEANDRO	S100280577		I-880 N/O WILLIAMS ST.		M
SAN LEANDRO	S100350494	NEPTUNE DRIVE PROPERTY	NEPTUNE DRIVE, 1800 FT N OF V	94577	A
SAN LEANDRO	S100279883		I-880 NORTH AT WASHINGTON B		M
SAN LEANDRO	S100276088		WEST OF S.P. RR TRACKS, SOU'	94577	M
SAN LEANDRO	1000440173	TONY LEMA GOLF COURSE LDFL	5000' S OF MARINA BLVD	94577	CI
SAN LEANDRO	S100191900	COVAL INDUSTRIES	963 PALM AVENUE	94577	A
SAN LEANDRO	S100191388	MACHINING ENTERPRISES	111-D SAN LEANDRO BOULEVAF	94577	A
SAN LEANDRO	S100219447		SAN LEANDRO BAY SHORELINE	94577	M
SAN LEANDRO	S100191302	GAVIN COMPANY	2901 WILLIAMS STREET	94577	A
SAN LEANDRO	S100474611	LINCOLN PROPERTY COMPANY	1948-1958 WILLIAMS ST (NO STR		O
SAN LEANDRU	S100275852		DAVIS STREET TRANSFER STAT	94577	M

Database Codes:

A = Cal-Sites	E = ERNS	K = LUST	O = Cortese	T = RCRIS-TSD	X = TSCA
B = PADS	F = Notify 65	L = St. Landfill (SWIS)	P = Toxic Pits	U = UST	
C = CERCLIS	G = RCRA-SQG	M = CHMIRS	Q = RCRA-LQG	V = RAATS	
D = HMIRS	I = FINDS	N = NPL	S = TRIS	W = SWAT	