

June 25, 1997

Mr. Scott Seery, CHMM Environmental Protection Division, Suite 250 Alameda County Environmental Health Department 1131 Harbor Bay Parkway Alameda, California 94502

Dear Mr. Seery:

On behalf of the Ingersoll-Rand Equipment Sales, Capsule Environmental Engineering, Inc., and our project partner, Braun Intertec Corporation, would like to submit the enclosed report. Quarterly Report January 1997 (Quarterly Report). This report is part of Ingersoll-Rand's corrective action activities to address the underground storage tank leak at 1944 Marina Boulevard, San Leandro.

The Quarterly Report was prepared to summarize the monitoring and corrective action activities for the period from November through January. It contains the results of both the January 1997 sampling events.

If you have any questions, comments, or need additional information cited in the report, please contact John McDermott at (800) 328-8246.

Sincerely,

John McDermott Hydrogeologist

Capsule Environmental Engineering, Inc.

Senior Project Manager Braun Intertec Corporation

JJM:cek

cc/enc: Kevin Graves/ Regional Water Quality Control Board, Oakland, CA

Robert Heindl/Ingersoll-Rand Equipment Sales, Bethlehem, PA (2 copies) Tim Tinsley/Ingersoll-Rand Equipment Sales, San Leandro, CA (2 copies)

Michael Bakaldin/San Leandro Fire Department, San Leandro, CA

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Quarterly Report January 1997

**Prepared For:** 

Ingersoll-Rand Equipment Sales San Leandro, California

June 25, 1997



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Environmental Protection Division, Suite 250
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, California 94502

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## QUARTERLY REPORT JANUARY 1997

#### Prepared For:

Ingersoll-Rand Equipment Sales 1944 Marina Boulevard San Leandro, California 94577

June 25, 1997

Prepared By:



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#### 1.0 INTRODUCTION

Ingersoll-Rand Company (I-R) has contracted with Capsule Environmental Engineering, Inc. (Capsule) to complete the implementation of the final corrective action design and related underground storage tank (UST) response activities for its equipment sales and maintenance facility at 1944 Marina Boulevard in San Leandro, California.

As part of these activities, Capsule prepares quarterly activities reports for the facility. The objectives of these reports are to:

- Provide a summary of corrective action activities including such work as the construction, sampling, and maintenance being conducted at the facility during the quarter
- Provide a benchmark of data and interpretation to evaluate the performance of corrective action activities
- Comply with Alameda County and city of San Leandro reporting requirements

The Quarterly Report January 1997 (January 1997 Report) provides the data and summary from the quarterly ground water monitoring event that was performed in January 20, 1997. Additionally, the January 1997 Report provides a brief summary of the continued operation of the redesigned soil vapor extraction (SVE) system, which was placed in service in early October 1995. The SVE system summary is for the period through January 1997.

#### 1.1 SITE DESCRIPTION

I-R operates a construction equipment sales and maintenance facility at 1944 Marina Boulevard, San Leandro, Alameda County, California (see Figure 1). The eastern shore of San Francisco Bay is approximately 1.25 miles west of the facility. The local topography around the facility is fairly flat, sloping gently toward the bay. Facility land surface elevations range from 25 to 30 feet above sea level.

The facility is situated in an area of industrial and commercial development. It is bounded on the north by Southern Pacific railroad tracks and on the south by Marina Boulevard. Immediately to the west of the facility is a manufacturer of packaging materials. To the east is a closed office filing equipment manufacturer. The facility has perimeter fencing.

Until the first half of 1996, the property's building had two tenants. An office filing equipment manufacturer occupied the eastern portion of the building. The equipment manufacturer stopped operations in mid-1996. I-R occupies the western portion of the building, which consists of an office and parts distribution area attached to a large bayed service area. To the north and west of the building is an outdoor equipment storage yard. The stored equipment includes both new and used construction machinery. Drilling rigs,

compressors, compactors, and other construction equipment are commonly stored in this area while being readied for sale, repair, rental, and salvage.

#### 1.2 <u>UST ACTIVITIES CHRONOLOGY</u>

A detailed UST chronology is provided in the Quarterly Report April 1995.

Generally, corrective action activities began with the submittal of a UST release report to the San Leandro Fire Department in 1989. Site investigation activities since 1989 include monitoring well and boring installation, ground water and soil sampling, and reporting.

In 1992, an SVE system consisting of one regenerative vacuum blower and four vent wells VW-1 through VW-4 were installed and operated for several months. System operation was discontinued when water levels rose and the system collected condensate. It is reported that 800 pounds of product was removed from vent well VW-3 during initial operation.

In late 1994, five additional SVE vent wells VW-5 through VW-9 were installed. These vent wells were installed to provide the SVE system with flexibility in vacuum configuration over a larger area including the downgradient property boundary.

Ground water sampling of monitoring wells was performed in November 1989. A sample was taken from MW-4 in November 1990. Since June 1994, quarterly sampling has occurred in select facility monitoring wells. The results indicated and confirmed the presence of gasoline-related volatile organic compounds (VOCs) and several chlorinated VOCs in low concentrations in site monitoring wells.

In March 1995, Alameda County directed I-R to conduct additional ground water assessment work as part of remedial activities. The additional assessment work was conducted in June and July 1995. The work included push probe-type borings and groundwater sampling. The assessment findings were reported in the October 1995 Quarterly Report.

In May 1995, SVE testing was conducted on all vent wells except VW-2. The testing results were used as the basis for a redesign of the SVE system. Construction of the redesigned system began in mid-September and was completed in early October. The original regenerative vacuum blower, which is connected to vent wells VW-1, VW-4, VW-5, VW-9, and three carbon vessels, described the new system.

The redesigned SVE system became operational during October 1995. The system is generally operated during the normal work week when facility personnel are available to perform permit-required daily air monitoring.

The facility received a December 8, 1995, letter from the State Water Resources Control Board, regarding interim guidance, in light of the October 1995 Lawrence Livermore National Laboratory report on leaking USTs. Additional supplemental instructions, prepared by the

San Francisco Bay Region, California Water Quality Control Board, to the December 8 letter were received by the facility on March 15, 1996.

In the spring of 1996, rainfall and high water levels adversely effected the operation of the SVE system. The high water levels rise into an area containing residual gasoline concentrations. The water partially obstructs air from moving through this area as long as the water table remains high. As a result, daily air monitoring showed lower influent concentrations. Additionally, more water collected in the system and had to be handled.

On October 16, 1996 the system operation was inspected and an air sample taken for laboratory analysis.

#### 2.0 GROUND WATER DATA SUMMARY

The January 1997 ground water sampling event (January 1997 event) included monitoring wells MW-3, MW-4, and vent well VW-8. The January 1997 event was performed on January 20, 1997. Additionally, water levels were measured during the event in MW-1, MW-2, and VW-6. Figure 2 provides an overall site plan and sampling point locations.

The analytical results, the chain of custody forms, and stabilization tests can be found in Appendix A.

The June and October 1994 and the January 1995 sampling events included upgradient wells MW-1 and MW-2. During a March 2, 1995, telephone conference with Alameda County Health Care Services, it was agreed that no additional quarterly sampling of MW-1 and MW-2 would be necessary. VW-8 sampling was added to the sampling schedule during the June 1995 event to provide additional data on ground water conditions downgradient of the facility.

#### 2.1 GROUND WATER LEVEL DATA

Depth-to-water measurements were collected as part of the January 1997 event. Field measurements recorded during the stabilization tests are attached in Appendix A. A summary of all water level data from wells and measuring point elevations is provided in Table 1.

During the January 1997 event, water level elevations beneath the facility ranged between 12.57 to 15.00 feet above sea level. Four of the six water level elevations are period of record highs. Water level elevation hydrographs for the four monitoring wells are presented in Figure 3. Overall, water level elevations across the facility were up 1.92 to 3.51 feet from the October 1996 measurements. Water level elevations were approximately 0.5 to 1.0 feet higher than the January 1996 elevations.

As can be seen in Figure 1, water level fluctuations are seasonal. Water levels rise during the wetter winter months and decline through the rest of the year.

During the period of record, the water levels have generally fluctuated from 3 to 5 feet.

Rainfall at the nearby San Leandro Marina rainfall gauge has varied from a low of 10.13 inches in the 1989 to 1990 water year to a high of 19.33 inches during the 1994 and 1995 water year (Alameda County, 1995). The October, November, December, 1996 and January, 1997 rainfall was 0.47, 1.93, 4.57, and 4.68 inches, respectively.

#### 2.1.1 Ground Water Gradient

The shallow ground water in the area of the facility responds directly to seasonal rainfall. Water levels rise in response to higher rainfall in the late winter and early spring and decline through the lower rainfall periods of summer and fall.

As Figure 3 indicates, water level elevations in individual wells respond fairly uniformly. This uniform fluctuation results in generally consistent hydraulic gradients and ground water flows direction with time.

The general ground water flow direction remains to the southwest. Ground water contours for the January 1997 event are shown in Figure 4. A flexure developed within the ground water contours. The flexure is a trough-like feature in the contours, trending generally northeast to southwest. This feature is a seasonal phenomenon. It was also observed during the late 1994/early 1995 and during late 1995/early 1996. The feature has been reported and discussed in previous quarterly reports. The flexure is likely due to the water level rising into an area of higher permeability. In 1995 and 1996, the flexure dissipated as water levels declined throughout the late spring and early summer.

Overall, it is generally acknowledged that because of the interlayered nature of the shallow subsurface, it is likely contours are not as uniform as portrayed. Variations in soil particle size and permeability can cause local variations in flow direction.

#### 2.1.2 Ground Water Flow Velocity

Ground water generally flows beneath the facility in a southwesterly direction. A ground water flow velocity estimate can be calculated from:

The following list summarizes the variables and the information sources for an estimate of the variable value.

<u>Variable</u>	Estimate	Data Source
hydraulic conductivity (k)	9.0 ft/day <sup>(1)</sup>	IT Corporation, Data Summary Report, 1990
hydraulic gradient (l)	0.008	Capsule, Quarterly Monitoring Report, January 1997
porosity (n)	0.30 <sup>(2)</sup>	Freeze and Cherry (1979), Table 2.4

(1) From pumping test performed on MW-4

(2) The cited porosity range for sand was 25% to 40%. Based upon the silty and clay nature of the site's sand, 30% was selected.

A ground water velocity of 0.24 feet per day, or 88 feet per year was calculated from these estimates. This velocity is considered low. Appendix B presents the velocity calculations. For comparison purposes, the velocity estimate from the January 1996 measurements was 0.22 feet per day or 77 feet per year.

#### 2.2 GROUND WATER ANALYTICAL DATA

The January 1997 event water samples were analyzed using United States Environmental Protection Agency (EPA) Methods 8015, 8020, and 8260. The analytical results are presented in Table 2.

In the monitoring wells, no new aromatic or chlorinated VOCs were detected during the January 1997 event. Both MW-3 and MW-4 concentrations were generally lower than results from January 1996 event. An exception was benzene in MW-4 which was similar to slightly higher during the January 1997 event. The sample collected from VW-8 detected lower concentrations of gasoline constituents than January 1996.

The January 1997 analytical results for MW-4 reported elevated detections limits due to a necessary dilution. (See February 7, 1997 Clayton letter in Appendix A.) This dilution resulted in detections limits that are two times higher than previous detection limits.

During the April 1996 event the laboratory added methyl-tert-butyl ether (MTBE) to the EPA 8260 compound list. This compound was not detected in the January 1997 samples.

Additional discussion is provided below on individual chlorinated and aromatic organic compounds.

In most instances, the laboratory-reported concentrations of the benzene, ethylbenzene, toluene, xylene (BETX) compounds are different, but similar, for EPA methods 8020 and 8260. This is due to different analytical procedures as well as the reproducibility of results. For comparison and graphing purposes, the higher of the two values is used.

While the water samples were not collected from a public water source, the California maximum contaminant levels (MCLs) are presented for comparison purposes with the detected concentrations. The list of MCLs comes from the EPA, Region IX's publication <u>Drinking</u> Water Standards and Health Advisories Table, dated December 1995.

#### 2.2.1 Chlorinated Organics

Chlorinated VOC detections have been found in monitoring wells.

#### 2.2.1.1 Trichloroethene (TCE)

Throughout the MW-1 and MW-2 period of record, 1989 through 1994, these two upgradient wells have consistently shown TCE detections ranging from 5 to 29 micrograms/liter ( $\mu g/l$ ).

Department of Toxic Substance Control information indicates that TCE is a widely occurring VOC found in the shallow ground water in the San Leandro area (WCC, 1993). Given this information and the occurrences in upgradient wells, it likely that the TCE-impacted ground water detected in MW-1 and MW-2 is flowing onto the facility from an upgradient source.

By agreement with Alameda County, these wells have not been sampled since the January 1995 event.

TCE was not detected in MW-4.

Prior TCE detections in MW-4 were intermittent, ranging from nondetect to 27  $\mu$ g/l. MW-4 is on the downgradient side of the facility. No TCE was detected in the sampling of MW-3 or VW-8.

The California MCL for trichloroethene is 0.005 milligrams/liter (mg/l) or 5  $\mu$ g/l.

#### 2.2.1.2 1,2-Dichloroethene

No cis-1,2-dichloroethene was detected during the January 1997 event.

Over the period of record, cis-1,2-dichloroethene has been detected in OB-1. Detections in OB-1 ranged from 6.7 to 12  $\mu$ g/l. Potential sources of these low concentrations include breakdown products of TCE and as a manufacturing artifact of TCE.

Cis-1,2-dichloroethene was also detected in VW-9 at 6  $\mu$ g/l during the June 1995 sampling event.

The California MCL for cis-1,2-dichloroethylene is 0.006 mg/l or 6  $\mu$ g/l.

No trans-1,2-dichloroethene was detected during the January 1997 event.

Over the period of record, trans-1,2-dichloroethene has been intermittently detected in MW-4 and OB-1. Previous MW-4 concentrations range from nondetect to 16  $\mu$ g/l. Past detections in OB-1 ranged from

10 to 15  $\mu$ g/l. Potential sources of these concentrations include breakdown products of TCE and as a manufacturing artifact of TCE.

The California MCL for trans-1,2-dichloroethylene is 0.010 mg/l or 10  $\mu$ g/l.

#### 2.2.1.3 Chlorobenzene

During the January 1997, chlorobenzene was not detected. In previous sampling events, chlorobenzene results in MW-3 ranged from nondetect to 19  $\mu$ g/l. Typical uses for the compound are as a solvent, in heat transfer, and in the production of pesticides. (Sax and Lewis, 1987).

The California MCL for monochlorobenzene (chlorobenzene) is 0.070 mg/l or 70  $\mu$ g/l.

#### 2.2.1.4 Dichlorobenzene Isomers

The three isomers of dichlorobenzene were not detected in MW-3 during the January 1997 event. For the period of record the individual concentrations have ranged from 5 to 69  $\mu$ g/l. The three isomers, 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene have a wide variety of uses including use as a solvent, in dye manufacturing, insecticides, and industrial odor control. The isomers 1,3- and 1,4-dichlorobenzene are generally used in fumigants and insecticides. (Sax and Lewis, 1987).

During the January 1997 event, 1,4-dichlorobenzene was not detected in MW-3. Previous detections ranged from 11 to 18  $\mu$ g/l. Isomer 1,3-dichlorobenzene was not detected. Previous detections ranged from 5 to 9  $\mu$ g/l. Isomer 1,2-dichlorobenzene was not detected in MW-3. Previous detections ranged from 42 to 64  $\mu$ g/l.

Isomer 1,4-dichlorobenzene has a California MCL, which is .005 mg/l or 5  $\mu$ g/l and 1,2-dichlorobenzene has a California MCL, which is 0.6 mg/l or 600  $\mu$ g/l. There is no California MCL for 1,3-dichlorobenzene. There is a California action level of 130  $\mu$ g/l for a single isomer of either 1,2 or 1,3. There is also a California action level of 130  $\mu$ g/l for a sum of these two isomers.

#### 2.2.1.5 1,2 Dichloroethane

During the January 1997 event, 1,2 dichloroethane was not detected. Previously there have been two occurrences in MW-4, one during June 1994 and the other during June 1995. Both results were  $11 \mu g/1$ .

As a note of clarification, reports prior to the January 1996 quarterly report mistakenly stated that the 1,2 dichloroethane detections were in MW-3, when they were actually from MW-4.

Typical uses for the compound include use as a solvent and as a lead scavenger in anti-knock gasoline.

During the January 1997 event, 1,2 dichloroethane was not detected in a ground water sample collected from VW-8. The June 1995 event indicated 6  $\mu$ g/l. Since the June 1995 result, six successive quarterly results have not detected 1,2 dichloroethane.

The California MCL for 1,2 dichloroethane is 0.0005 mg/l or 0.5  $\mu$ g/l.

#### 2.2.2 Aromatic Organics

During the January 1997 event, several gasoline component VOCs continued to be detected in samples from monitoring wells MW-3, MW-4, and VW-8. Each detected VOC is discussed in the following sections. Most concentrations were markedly lower than those for the previous January events.

#### 2.2.2.1 Benzene

During the January 1997 event, benzene was detected in MW-3 at 180  $\mu$ g/l. This concentration compares to the 290  $\mu$ g/l detected in January 1996. Previous benzene concentrations ranged from 9  $\mu$ g/l in October 1994 to 1,200  $\mu$ g/l in April 1995.

Benzene concentration increases have occurred between October and January in 1995, 1996 and 1997. Overall, the increases are attributed to increased precipitation, a higher late winter water table, and the accompanying flushing of residual gasoline constituents from soils in the area of MW-3, which is near the former gasoline UST site.

Benzene was detected in MW-4 at 250  $\mu$ g/l. This is comparable to slightly higher than the January 1996 concentration of 180  $\mu$ g/l. Concentrations for the period of record ranged from 180 to 600  $\mu$ g/l. A questionable sample from late 1990 reported 1,500  $\mu$ g/l.

Benzene was detected in VW-8 at 14  $\mu$ g/l. This value is comparable to the January 1996 concentration of 18  $\mu$ g/l.

The California MCL for benzene is 0.001 mg/l or 1  $\mu$ g/l.

#### 2.2.2.2 Ethylbenzene

Ethylbenzene is another gasoline constituent detected in MW-3, MW-4, and VW-8. During the January 1997 sampling event, concentrations ranged from 58 to 270  $\mu$ g/l.

The ethylbenzene concentration detected in MW-3 was 17  $\mu$ g/l. This is the period of record low concentration for MW-3. During the January 1996 event, 160  $\mu$ g/l was detected. For the period of record, MW-3 ethylbenzene concentrations ranged from 17 to 720  $\mu$ g/l. During the January 1997 sampling event, the ethylbenzene concentration in MW-4 was 410  $\mu$ g/l. For the January 1996 event the concentration was 310  $\mu$ g/l. Previous detections ranged from 230 to 720  $\mu$ g/l.

Ethylbenzene was also detected in VW-8 at a concentration of 30  $\mu$ g/l. The January 1996 concentration was 7.2  $\mu$ g/l. As a note, the January 1996 result was questionable because of a sample heterogeneity issue, which was discussed in the January 1996 Quarterly Report.

The California MCL for ethylbenzene is 0.7 mg/l or 700  $\mu$ g/l.

#### 2.2.2.3 Toluene

Toluene detections in MW-3, MW-4, and VW-8 were 9, 2.8, and 7  $\mu$ g/1, respectively.

Previous detections in MW-3 have ranged from 4 to 1,700  $\mu$ g/l. The January 1997 concentration of 9  $\mu$ g/l compares with the January 1996 result of 48  $\mu$ g/l. As with other BETX compounds, toluene concentrations fluctuate seasonally.

Previous MW-4 toluene concentrations range from 6 to 110  $\mu$ g/l. The 2.8  $\mu$ g/l detected during the January 1997 event was the lowest observed in the period of record.

The VW-8 toluene concentration was 7  $\mu$ g/l. VW-8 toluene concentrations have ranged from 0.3 to 570  $\mu$ g/l for the period of record, which began in June 1995.

The California MCL for toluene is 0.150 mg/l or 150  $\mu$ g/l.

#### 2.2.2.4 Isomers of Xylene

All three isomers of xylene were detected in MW-3, MW-4, and VW-8 during the January 1997 sampling event.

O-xylene was detected at 250  $\mu$ g/l in MW-3. Previous MW-3 concentrations of o-xylene ranged from 24 to 940  $\mu$ g/l with the lowest value occurring during the October 1996 sampling event. P and m-xylenes were detected at 99  $\mu$ g/l in MW-3. Previous MW-3 concentrations of p and m-xylenes ranged from 41 to 2,100  $\mu$ g/l.

In MW-4 o-xylene was detected 10  $\mu$ g/l. Previous MW-4 concentrations ranged from 9.3 to 320  $\mu$ g/l for o-xylene. P and m-xylenes were detected at 210  $\mu$ g/l. Previous MW-4 concentrations ranged from 170 to 730  $\mu$ g/l. The o-xylene concentration was an order of magnitude lower than detected during the January 1996 sampling event.

Xylene isomers were also detected in VW-8. O-xylene was detected in VW-8 at 15  $\mu$ g/1.

O-xylene concentrations have ranged from <0.4 to 130  $\mu$ g/l for the period of record, which began in June 1995. P and m-xylenes were detected in VW-8 at 42  $\mu$ g/l. P and m-xylene concentrations ranged from <0.4 to 210  $\mu$ g/l for the period of record, which began in June 1995.

The California MCL for xylenes is 1.75 mg/l or 1,750  $\mu$ g/l, for either a single isomer or the sum of the isomers.

#### 2.2.2.5 Napthalene

During the January 1997 event, naphthalene was detected in MW-3, MW-4, and VW-8.

Naphthalene was detected at 28  $\mu$ g/l in MW-3. Previous MW-3 concentrations ranged from 6 to 150  $\mu$ g/l. The January 1996 concentration was 85  $\mu$ g/l. Throughout the period of record the higher concentrations correlate with wetter periods. As with the BETX compounds, the naphthalene concentration appears associated with flushing of residual gasoline in the MW-3 area.

The MW-4 concentration was 70  $\mu$ g/l. Previous MW-4 concentrations range from 32 to 120  $\mu$ g/l.

Naphthalene was detected in VW-8 at 6  $\mu$ g/l. Previous results ranged from < 5 and 46  $\mu$ g/l for the sampling period which began in June 1995.

There is no California MCL for napthalene.

#### 2.2.2.6 Trimethylbenzene

Both 1,2,4 and 1,3,5 trimethylbenzene were detected in MW-3, MW-4, and VW-8.

The compound 1,2,4 trimethylbenzene was detected at 68  $\mu$ g/l in MW-3 during the January 1997 event. Previous MW-3 concentrations range from 54 to 650  $\mu$ g/l. The January 1996 concentration was 390. 1,3,5 trimethylbenzene was detected at 10  $\mu$ g/l in MW-3. The January 1996 concentration was 110  $\mu$ g/l. Previous MW-3 concentrations range from 22 to 160  $\mu$ g/l. As with the BETX compounds, the fluctuating trimethylbenzene concentrations appear to be the response to residual gasoline constituent flushing from the soil near the MW-3 area.

During the January 1997 event, 1,2,4 trimethylbenzene was detected at 500  $\mu$ g/l in MW-4. Previous MW-4 concentrations range from 180 to 600  $\mu$ g/l. In MW-4, 1,3,5 trimethylbenzene was detected at 90  $\mu$ g/l. Previous MW-4 concentrations range from 44 to 130  $\mu$ g/l.

During the January 1997 event, 1,2,4 trimethylbenzene was detected in VW-8 at  $29\mu g/l$ . Previous concentrations ranged from <5 to 270  $\mu g/l$ . 1,3,5 trimethylbenzene was detected at 9  $\mu g/l$ . Previous concentrations ranged from <5 to 61  $\mu g/l$ .

There is no California MCL for trimethylbenzene.

#### 2.2.2.7 Other Gasoline Components

Throughout the period of record, a number of other gasoline-related VOCs have also been detected in MW-3, MW-4, and OB-1. Concentrations of n-butylbenzene, isopropylbenzene (cumene), sec-butylbenzene, and n-propylbenzene have been detected during sampling events.

During the January 1997 1996 event, these VOCs were detected in concentrations similar to those of previous sampling. Individual concentrations were generally less than 50  $\mu$ g/l with several previously detected compounds being not detected during the January 1997 event.

#### 2.2.2.8 Total Petroleum Hydrocarbons (TPH) as Gasoline

TPH, as gasoline, was detected at 1,200  $\mu$ g/l in MW-3 during the January 1997 event. This was a period of record low for MW-3. Previous detections ranged from 1,600 to 14,000  $\mu$ g/l. Fluctuating TPH concentrations in MW-3 appear to be seasonally related. Higher concentrations appear in the wetter months.

MW-3 is located near the former tank area.

The TPH concentration in MW-4 was 6,400  $\mu$ g/l. For the period of record, MW-4 concentrations ranged from 5,900 to 9,700  $\mu$ g/l.

The VW-8 concentration was 620  $\mu$ g/l. Previous results ranged from <5 to 5,300  $\mu$ g/l for the period of record that began in June 1995. (The <5  $\mu$ g/l value is from the January 1996 sample. As previously discussed in the January 1996 quarterly report, there is a laboratory-described "heterogeneity" with this sample.)

#### 3.0 SOIL VAPOR EXTRACTION SYSTEM ACTIVITY SUMMARY

This portion of the January 1997 Report summarizes the activities and status of the SVE system operation.

#### 3.1 SVE System Background

A SVE system was originally installed in 1992. Operational difficulties due to high water levels limited the effectiveness of the system. During late 1994 additional SVE vents were installed. In early 1995 the system was redesigned. Construction of the redesigned SVE system was accomplished during September 1995.

Startup and operation of the redesigned SVE system began the week of October 2, 1995. Vent wells VW-1, VW-4, VW-5, and VW-9 are the currently used extraction points. Extracted air passes through three carbon vessels in series to remove the volatile organic compounds from the SVE system discharge.

On October 3, 1995, a 4-liter charcoal tube air sample was collected from the blower discharge prior to the first carbon vessel. The sample was submitted to the laboratory for chemical analysis of BETX and total hydrocarbons (THC) as gasoline. Based upon a THC (as gasoline) result of 880,000  $\mu$ g/m³ and a blower discharge of 118 cubic feet per minute, the mass removal rate of the system on October 3 was calculated to be 1.58 gallons of gasoline per day.

The SVE system operates continuously during the normal, five day work week. The SVE system is typically not operated on weekends. The air permit requires daily air discharge monitoring. The facility is closed on weekends, so personnel are not available to perform the required air monitoring.

#### 3.2 SVE System Operations During the Ouarter

From November 1 thru January 31, 1997, the SVE system was operated 37 days. There were 62 weekdays available for operation for the period. Major limiting factors in operation were weather conditions, an electrical problem and maintenance on the photoionization detector.

As an air permit condition, daily readings are taken from the system with a photoionization detection meter (PID). Table 3 provides a summary of the daily PID readings from the SVE system. Figure 5 shows the time series of OVM readings.

#### 4.0 <u>CONCLUSIONS</u>

The conclusions combine observations, data, and evaluation for the January 1997 sampling event and past site work. Publicly available hydrogeologic and ground water contamination studies were also used in the evaluation. The conclusions also draw upon the SVE system operational data.

The shallow geologic setting beneath the facility is a sequence of fill, silts, clays, and sands that have been mapped as fluvial deposits. The depth to ground water varies seasonally. Over the last seven quarters of monitoring, the water table has fluctuated approximately 3 feet. During this period, water levels were at their highest in early 1995.

Water levels were at period of record highs during the January 1997 event.

The shallow ground water flows through a sequence of saturated sands, silts, and clays. During the January 1997 event, the ground water gradient was 0.008. Across the site the water table elevation varied from 12.71 to 15.00 feet above sea level and its velocity is estimated at 88 feet per year. Ground water flow is to the southwest.

The January ground water levels are typical of the facility monitoring wells that show a seasonal trend with higher late winter and early spring elevations.

Seasonally, ground water levels in individual facility monitoring wells respond fairly uniformly.

Gasoline constituent and some chlorinated VOCs continue to be detected in monitoring wells.

Gasoline constituents were detected in three ground water sampling points downgradient of the facility.

Gasoline constituent VOCs continue to be detected in the MW-4 near the facility's downgradient boundary. Generally, gasoline constituent VOC concentrations continue to decline in MW-4.

BETX constituent concentrations from the monitoring well MW-3, near the former UST, continued to decline.

Daily SVE influent monitoring shows declining concentrations from the October 1995 startup of the redesigned system to present.

### 5.0 ACTIVITIES STATUS SUMMARY

The following corrective action activities are either in progress or planned for the coming months.

- Continue to operate, monitor, and maintain the SVE system.
- Collect SVE system air samples for analysis and mass removal calculations.
- Continue ground water monitoring.

#### 6.0 RECOMMENDATIONS

#### 6.1 RECOMMENDATION 1

The SVE system should continue to operate to maximize the removal of remaining gasoline constituents from the soil. Continued daily air monitoring will provide another quarter to observe the asymptotic trend that appears to be developing.

The system should be operated as much as possible, recognizing the operational constraints of the air permit conditions, including the requirement to do daily monitoring of the system effluent. This requirement limits system operation to the business work week.

#### 6.2 RECOMMENDATION 2

Use the January 12, 1996 Supplemental Instructions, issued by the San Francisco Bay Region of the California Regional Water Quality Control Board, to develop a technical case for the site as a low risk ground water site.

16

#### 7.0 REFERENCES

- Alameda County, 1995, faxed precipitation data from the Alameda County Flood Control and Water Conservation District, Water Resources Section, Oakland, California.
- Hickenbottom, K. and Muir, K., Geohydrology and Ground water-Quality Overview of the East Bay Plain Area, Alameda County, California 2005 (j) Report, Alameda County Flood Control and Water Conservation District, Oakland, California.
- IT Corporation, 1990, Ingersoll Rand Corporation Data Summary Report, Subject Site: 1944 Marina Boulevard, San Leandro, California, Martinez, California.
- IT Environmental Services, 1989, Problem Assessment Report, prepared for: Ingersoll-Rand Incorporated, Martinez, California.
- Sax, N.I, and R. J. Lewis, 1987, Hawley's Condensed Chemical Dictionary, Van Nostrand Reinhold, New York.
- Woodward-Clyde Consultants, 1993, Hydrogeology of Central San Leandro and Remedial Investigation of Regional Ground water Contamination San Leandro Plume, San Leandro, California, prepared for the California Environmental Protection Agency, Oakland, California.

1252 Quarry Lane P.O. Box 9019 Pleasanton, CA 94566 (510) 426-2600 Fax (510) 426-0106



February 12, 1997

Mr. John J. McDermott Hydrogeologist Capsule Environmental Engineering, Inc. 1970 Oakcrest Avenue, Suite 215 St. Paul, Minnesota 55113-2624

Clayton Project No. 97182.00

Analytical Reports for Groundwater Monitoring and Sampling at the Subject:

Ingersoll-Rand Facility in San Leandro, California

Dear Mr. McDermott:

Clayton Environmental Consultants, Inc. is pleased to transmit the attached analytical reports for the groundwater samples collected on January 20, 1997 at the Ingersoll-Rand facility located at 1944 Marina Boulevard in San Leandro, California.

Upon arrival at the site on January 20, 1997, Clayton measured the depth to groundwater in monitoring wells MW-1 through MW-4 and VW-6 and VW-8. Stagnant water in the monitoring wells MW-3, MW-4, and VW-8 was purged using a 2-inch submersible pump. Approximately four to five times the well volume was pumped from each well to ensure water representative of the aquifer was present in the wells. Well volumes were calculated using depth to groundwater and total well depth measurements which were recorded to the nearest 0.01 foot upon arrival at the site. The purging was continued until sufficient volume of water had been purged for pH, temperature, and electrical conductivity to stabilize.

The following parameters were noted during the sampling activities:

- Monitoring well identification
- · Static water level
- Well depth
- Condition of water before purging (e.g., amount of free product)
- · Purge rate and volume
- pH, temperature, and conductivity during purging
- · Time purged
- · Time of sample collection
- Sampling method
- Name of sampler
- Climatic conditions



The water sample was collected using a new disposable bailer. All other equipment coming into contact with groundwater was thoroughly cleaned and decontaminated before use. Details of the groundwater monitoring and sampling event are, including depth to water measurements, provided in the water sampling field survey forms (Appendix A).

Groundwater samples were transferred into clean laboratory-supplied containers that were closed, labeled, placed immediately into an ice chest, and transported to Clayton's state-certified laboratory for analysis. In addition one trip blank and one trip blank was furnished in accordance with your quality assurance/quality control (QA/QC) program.

Groundwater samples were collected in such a manner to minimize the volatilization of a sample due to agitation and/or transfer from bailer to sample container. To document and trace samples from time of collection, a signed chain-of-custody record was completed by the sampler and accompanied the samples through the laboratory analyses. The completed chain-of-custody was included with the analytical report from the laboratory.

The groundwater generated during the sampling activities was placed in a Department of Transportation (DOT) approved 55-gallon drum. This drum was labeled and was left onsite.

The groundwater samples were analyzed using the following United States Environmental Protection Agency (USEPA) methods:

- USEPA Method 8015-M for total petroleum hydrocarbons as gasoline (TPH-G)
- USEPA Method 8020 for benzene, toluene, ethylbenzene and xylenes (BTEX)
- USEPA Method 8260 for volatile organic compounds (VOCs)

The analytical reports are included as Appendix B to this report.

According to Clayton's laboratory, reporting levels for monitoring well MW-4 for EPA Method 8260A was elevated due to high levels of contaminants. The samples had to be diluted for quantitation thus elevating the reporting levels in the report.

Should you have any questions regarding the sampling event, please contact us at (510) 426-2600.

Sincerely,

Richard J. Silva, R.E.A.

Richard J. Selva

Geologist

RJS/rs Enclosures



### APPENDIX B

### ANALYTICAL REPORTS

1252 Quarry Lane P.O. Box 9019 Pleasanton, CA 94566 (510) 426-2600 Fax (510) 426-0106



February 07, 1997

Mr. Richard Silva CLAYTON ENVIRONMENTAL CONSULTANTS, INC. 1252 Quarry Lane Pleasanton, CA 94566

> Client Reference: 97182.00 Clayton Project No.: SF9701211

Dear Mr. Silva:

Attached is our analytical laboratory report for the samples received on January 20, 1997. Also enclosed is a copy of the Chain-of-Custody record acknowledging receipt of these samples.

Detection limits are elevated for sample MW-4 for EPA Method 8260A due to dilution necessary for quantitation. The Gas/BTEX results for sample Trip Blank come from an analysis with headspace due to limited sample volume and should be considered estimated concentrations. Please note that the recoveries for the EPA Method 8260A surrogate Bromofluorobenzene are based on a single point calibration from the blank.

Please note that any unused portion of the samples will be discarded 30 days from the date of this letter, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have questions regarding this report, please contact Suzanne Haus, Client Services Supervisor, at (510) 426-2657.

Sincerely,

Harriotte A. Hurley, CIH

Director, Laboratory Services San Francisco Regional Office

HAH/tib

Attachments

Bruchen for



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#### CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

MW-3

Sample Number: Sample Matrix:

Analytical Method:

SF9701211-1 Ground Water

Prep Method:

5030

8260A

Project ID:

SF9701211 01/20/97

Date Sampled: Date Received: Date Prepared:

01/20/97

Date Analyzed:

02/01/97 02/01/97

8260, Volatile Organics

Analyte	CAS Number	Results	Units	RL
8260, Volatile Organics				
Acetone	67-64-1	ND	ug/L	20
Benzene	71-43-2	180	ug/L	5
Bromobenzene	108-86-1	ND	ug/L	5
Bromochloromethane	74-97-5	ND	ug/L	5
Bromodichloromethane	75-27-4	ND	ug/L	5
Bromoform	75-25-2	ND	ug/L	5
Bromomethane	74-83-9	ND	ug/L	5
2-Butanone	78-93-3	ND	ug/L	20
tert-Butylbenzene	98-08-6	ND	ug/L	5
-sec-Butylbenzene	135-98-8	ND	ug/L	5
_ n-Butylbenzene	104-51-8	ND	ug/L	5
Carbon Disulfide	75-15-0	ND	ug/L	5
Carbon tetrachloride	56-23-5	ND	ug/L	5
Chlorobenzene	108-90-7	ND	ug/L	5
Chloroethane	75-00-3	ND	ug/L	5
-2-Chloroethylvinyl ether	110-75-8	ND	ug/L	5
Chloroform	67-66-3	ND	ug/L	5
Chloromethane	74-87-3	ND	ug/L	5
4-Chlorotoluene	106-43-4	ND	ug/L	5
2-Chlorotoluene	95-49-8	ND	ug/L	5
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	5
Dibromochloromethane	124-48-1	ND	ug/L	5
1,2-Dibromoethane	106-93-4	ND	ug/L	5
Dibromomethane	74-95-3	ND	ug/L	5
1,4-Dichlorobenzene	106-46-7	ND	ug/L	5
1,3-Dichlorobenzene	541-73-1	ИИ	ug/L	5
1,2-Dichlorobenzene	95-50-1	ND	ug/L	5
Dichlorodifluoromethane	75-71-8	ND	ug/L	5
1,2-Dichloroethane	107-06-2	ND	ug/L	5
1,1-Dichloroethane	75-34-3	ND	ug/L	5
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	5
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	5
1,1-Dichloroethene	75-35-4	ND	ug/L	5
2,2-Dichloropropane	594-20-7	ND	ug/L	5
1,3-Dichloropropane	142-28-9	ND	ug/L	5
1,2-Dichloropropane	78-87-5	ND	ug/L	5
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	5
- cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	5

ND: Not detected at or above reporting limit --: Information not available or not applicable

RL: Reporting limit



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#### CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

MW-3

Sample Number:

SF9701211-1 Ground Water

Sample Matrix: Prep Method:

Analytical Method:

5030

8260A

Project ID:

SF9701211

Date Sampled: Date Received: 01/20/97 01/20/97

Date Prepared:

02/01/97

Date Analyzed:

02/01/97

8260, Volatile Organics

nalyte CAS Number Results Units RL					
Wigitan	CAD MUNDOI	110041100			
1,1-Dichloropropene	563-58-6	ND	ug/L	5	
Ethylbenzene	100-41-4	17.	ug/L	5	
Freon 113	76-13-1	ND	ug/L	5	
Hexachlorobutadiene	87-68-3	ND	ug/L	5	
2-Hexanone	591-78-6	ND	ug/L	20	
Isopropylbenzene	98-82-8	ND	ug/L	5	
p-Isopropyltoluene	99-87-6	ND	ug/L	5	
MTBE	1634-04-4	ND	ug/L	5	
4-Methyl-2-Pentanone	108-10-1	ND	ug/L	20	
Methylene chloride	75-09-2	ND	ug/L	5	
Naphthalene	91-20-3	28.	ug/L	5	
n-Propylbenzene	103-65-1	ND	ug/L	5	
Styrene	100-42-5	ND	ug/L	5	
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	5	
1,1,1,2-Tetrachloroethane	630-20-6	ND	ug/L	5	
Tetrachloroethene	127-18-4	ND	ug/L	5	
Toluene	108-88-3	9.	ug/L	5	
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	5	
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	5	
1,1,2-Trichloroethane	79-00-5	ND	ug/L	5	
1,1,1-Trichloroethane	71-55-6	ND	ug/L	5	
Trichloroethene	79-01-6	ND	ug/L	5	
Trichlorofluoromethane	75-69-4	ND	ug/L	5	
1,2,3-Trichloropropane	96-18-4	ND	ug/L	5	
1,3,5-Trimethylbenzene	108-67-8	10.	ug/L	5	
1,2,4-Trimethylbenzene	95-63-6	68.	ug/L	5	
Vinyl Acetate	108-05-4	ND	ug/L	10	
Vinyl chloride	75-01-4	ND	ug/L	5	
o-Xylene	95-47-6	250	ug/L	5	
m,p-Xylenes		99.	ug/L	5	
urrogates		Recovery		QC Limits	
4-Bromofluorobenzene	460-00-4	98	*	86 - 115	
Dibromofluoromethane	1868-53-7	96	<b>%</b>	86 - 118	
1,2-Dichloroethane-d4	17060-07-0	103	96	80 - 120	
Toluene-d8	2037-26-5	100	%	88 - 110	



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## CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

MW-3

Sample Number:

SF9701211-1

Sample Matrix:

Ground Water

Prep Method:

5030

Analytical Method:

8015/8020

Project ID:

RL: Reporting limit

SF9701211

Date Sampled: Date Received: 01/20/97 01/20/97

Date Prepared:

01/22/97

Date Analyzed:

01/22/97

BTEX & TPH-Gasoline

Analyte	CAS Number	Results	Units	RL
BTEX & TPH-Gasoline				
Benzene	71-43-2	160	ug/L	0.4
Ethylbenzene	100-41-4	13.	ug/L	0.3
TPH Gasoline		1200	ug/L	50
Toluene	108-88-3	7.3	ug/L	0.3
o-Xylene	95-47-6	240	ug/L	0.4
m,p~Xylenes		82.	ug/L	0.4
Surrogates		Recovery		QC Limits
a,a,a-Trifluorotoluene	98-08-8	103	*	50 - 150



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## CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name: Sample Number: MW-4

SF9701211-2

Sample Matrix:

Ground Water

Prep Method: Analytical Method:

5030 8260A Project ID: Date Sampled: SF9701211 01/20/97

Date Received:
Date Prepared:

01/20/97

Date Analyzed:

02/01/97 02/01/97

8260, Volatile Organics

Analyte	CAS Number	Results	Units	RL
3260, Volatile Organics				
Acetone	67-64-1	ND	ug/L	40
Benzene	71-43-2	250	ug/L	10
Bromobenzene	108-86-1	ND	ug/L	10
Bromochloromethane	74-97-5	ND	ug/L	10
Bromodichloromethane	75-27-4	ND	ug/L	10
Bromoform	75-25-2	ND	ug/L	10
Bromomethane	74-83-9	ND	ug/L	10
2-Butanone	78-93-3	ИD	ug/L	40
tert-Butylbenzene	98-08-6	ND	ug/L	1.0
sec-Butylbenzene	135-98-8	10	ug/L	10
n-Butylbenzene	104-51-8	ND	ug/L	10
Carbon Disulfide	75-15-0	ND	ug/L	10
Carbon tetrachloride	56-23-5	ND	ug/L	10
Chlorobenzene	108-90-7	ND	ug/L	10
Chloroethane	75-00-3	ND	ug/L	10
2-Chloroethylvinyl ether	110~75-8	ND	ug/L	10
Chloroform	<b>67 -</b> 66-3	ND	ug/L	10
Chloromethane	74-87-3	ND	ug/L	10
4-Chlorotoluene	106-43-4	ND	ug/L	10
2-Chlorotoluene	95-49-8	ND	ug/L	10
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	10
Dibromochloromethane	124-48-1	ND	ug/L	10
1,2-Dibromoethane	106-93-4	ND	ug/L	10
Dibromomethane	74-95-3	ND	ug/L	10
1,4-Dichlorobenzene	106-46-7	ND	ug/L	10
1,3-Dichlorobenzene	541-73-1	ND	ug/L	10
1,2-Dichlorobenzene	95-50-1	ND	ug/L	10
Dichlorodifluoromethane	75-71-8	ND	ug/L	10
1,2-Dichloroethane	107-06-2	ND	ug/L	10
1,1-Dichloroethane	75-34-3	ND	ug/L	10
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	10
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	10
1,1-Dichloroethene	75-35-4	ND	ug/L	10
2,2-Dichloropropane	594-20-7	ND	ug/L	10
1,3-Dichloropropane	142-28-9	ND	ug/L	10
1,2-Dichloropropane	78-87-5	ND	ug/L	10
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	10
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	10
— • · · · · · · · · · · · · · · · · · ·			***	

ND: Not detected at or above reporting limit --: Information not available or not applicable

RL: Reporting limit



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#### CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

MW - 4

Project ID:

SF9701211

Sample Number: Sample Matrix:

SF9701211-2 Ground Water Date Sampled:

01/20/97

Prep Method:

Date Received: Date Prepared:

01/20/97 02/01/97

5030

Date Analyzed:

02/01/97

Analytical Method: 8260A

8260, Volatile Organics

Analyte	CAS Number	Results	Units	RL
1,1-Dichloropropene	563-58-6	ND	ug/L	10
Ethylbenzene	100-41-4	410	ug/L	10
Freon 113	76-13-1	ND	ug/L	10
Hexachlorobutadiene	87-68-3	ND	ug/L	10
2-Hexanone	591-78-6	ND	ug/L	40
Isopropylbenzene	98-82-8	50	ug/L	10
p-Isopropyltoluene	99-87-6	ND	ug/L	10
MTBE	1634-04-4	ND	ug/L	10
4-Methyl-2-Pentanone	108-10-1	ND	ug/L	40
Methylene chloride	75-09-2	ND	ug/L	10
Naphthalene	91-20-3	70	ug/L	10
n-Propylbenzene	103-65-1	110	ug/L	10
Styrene	100-42-5	NĎ	ug/L	10
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	10
1,1,1,2-Tetrachloroethane	630-20-6	ND	ug/L	10
Tetrachloroethene	127-18-4	ND	ug/L	10
Toluene	108-88-3	ND	ug/L	10
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	10
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	10
1,1,2-Trichloroethane	79-00-5	ND	ug/L	10
1,1,1-Trichloroethane	71-55-6	ND	ug/L	10
Trichloroethene	79-01-6	ND	ug/L	10
Trichlorofluoromethane	75-69-4	ND	ug/L	10
1,2,3-Trichloropropane	96-18-4	ND	ug/L	10
1,3,5-Trimethylbenzene	108-67-8	90	ug/L	10
1,2,4-Trimethylbenzene	95-63-6	500	ug/L	10
Vinyl Acetate	108-05-4	ND	ug/L	20
Vinyl chloride	75-01-4	ND	ug/L	10
o-Xylene	95-47-6	10	ug/L	10
m,p-Xylenes		180	ug/L	10
Surrogates		Recovery		QC Limits
4-Bromofluorobenzene	460-00-4	98	%	86 - 115
Dibromofluoromethane	1868-53-7	95	%	86 - 118
1,2-Dichloroethane-d4	17060-07-0	101	%	80 - 120
Toluene-d8	2037-26-5	99	*	88 - 110



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#### CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

MW-4

Sample Number:

SF9701211-2 Ground Water

Sample Matrix: Prep Method:

5030

Analytical Method:

8015/8020

Project ID:

SF9701211

Date Sampled:

01/20/97

Date Received:

01/20/97

Date Prepared:

01/22/97

Date Analyzed:

01/22/97

BTEX & TPH-Gasoline

Analyte	CAS Number	Results	Units	RL
BTEX & TPH-Gasoline				
Benzene '	71-43-2	220	ug/L	0.4
Ethylbenzene	100-41-4	340	ug/L	0.3
TPH Gasoline		6400	ug/L	50
Toluene	108-88-3	2.8	ug/L	0.3
o-Xylene	95-47-6	10.	ug/L	0.4
m,p-Xylenes		210	ug/L	0.4
Surrogates		Recovery		QC Limits
a,a,a-Trifluorotoluene	98-08-8	115	%	50 - 150



Page 8 of 19

# CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

8-WV

Sample Number: Sample Matrix:

SF9701211-3 Ground Water

Prep Method:

5030

Analytical Method: 8260A

Project ID:

SF9701211 01/20/97

Date Sampled: Date Received:

01/20/97

Date Prepared: Date Analyzed: 02/01/97 02/01/97

8260, Volatile Organics

Analyte	CAS Number	Results	Units	RL
8260, Volatile Organics				
Acetone	67-64-1	ND	ug/L	20
Benzene	71-43-2	14.	ug/L	5
Bromobenzene	108-86-1	ИD	ug/L	5
Bromochloromethane	74~97-5	ND	ug/L	5
Bromodichloromethane	75-27-4	ND	ug/L	5
Bromoform	75-25-2	ND	ug/L	5
Bromomethane	74-83-9	ИD	ug/L	5
2-Butanone	78-93-3	ND	ug/L	20
tert-Butylbenzene	98-08-6	ND	ug/L	5
sec-Butylbenzene	135-98-8	ND	ug/L	5
n-Butylbenzene	104-51-8	ND	ug/L	5
Carbon Disulfide	75-15-0	ND	ug/L	5
Carbon tetrachloride	56-23-5	ND	ug/L	5
Chlorobenzene	108-90-7	ND	ug/L	5
Chloroethane	75-00-3	ND	ug/L	5
2-Chloroethylvinyl ether	110-75-8	ND	ug/L	5
Chloroform	67-66-3	ND	ug/L	5
Chloromethane	74-87-3	ND	ug/L	5
4-Chlorotoluene	106-43-4	ND	ug/L	5
2-Chlorotoluene	95-49-8	ND	ug/L	5
1,2-Dibromo-3-chloropropane	96-12-8	ПИ	ug/L	5
Dibromochloromethane	124-48-1	ND	ug/L	5
1,2-Dibromoethane	106-93-4	ND	ug/L	5
Dibromomethane	74~95-3	ND	ug/L	5
1,4-Dichlorobenzene	106-46-7	ND	ug/L	5
1,3-Dichlorobenzene	541-73-1	ND	ug/L	5
1,2-Dichlorobenzene	95-50-1	ND	ug/L	5
Dichlorodifluoromethane	75-71-8	ND	ug/L	5
1,2-Dichloroethane	107-06-2	ND	ug/L	5
1,1-Dichloroethane	75-34-3	ND	ug/L	5
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	5
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	5
1,1-Dichloroethene	75-35-4	ND	ug/L	5
2,2-Dichloropropane	594-20-7	ND	ug/L	5
1,3-Dichloropropane	142-28-9	ND	ug/L	5
1,2-Dichloropropane	78-87-5	ND	ug/L	5
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	5
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	5

ND: Not detected at or above reporting limit --: Information not available or not applicable

RL: Reporting limit



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#### CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

8-WV

Project ID:

SF9701211

Sample Number: Sample Matrix: SF9701211-3 Ground Water Date Sampled: 01/20/97

Prep Method:

5030

Date Received: 01/20/97 02/01/97 Date Prepared:

Analytical Method:

8260A

Date Analyzed:

02/01/97

8260, Volatile Organics

nalyte	CAS Number	Results	Units	RL
1,1-Dichloropropene	563-58-6	ND	ug/L	5
Ethylbenzene	100-41-4	29.	ug/L	5
Freon 113	76-13-1	ND	ug/L	5
Hexachlorobutadiene	87-68-3	ND	ug/L	5
2-Hexanone	591-78-6	ND	ug/L	20
Isopropylbenzene	98-82-8	ND	ug/L	5
p-Isopropyltoluene	99-87-6	ND	ug/L	5
MTBE	1634-04-4	ND	ug/L	5
4-Methyl-2-Pentanone	108-10-1	ND	ug/L	20
Methylene chloride	75-09-2	ND	ug/L	5
Naphthalene	91-20-3	5.	ug/L	5
n-Propylbenzene	103-65-1	9.	ug/L	5
Styrene	100-42-5	ND	ug/L	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	5
1,1,1,2-Tetrachloroethane	630-20-6	ND	ug/L	5
Tetrachloroethene	127-18-4	ND	ug/L	5
Toluene	108-88-3	7.	ug/L	5
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	5
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	5
1,1,2-Trichloroethane	79-00-5	ND	ug/L	5
1,1,1-Trichloroethane	71-55-6	ND	ug/L	5
Trichloroethene	79-01-6	ND	ug/L	5
Trichlorofluoromethane	75-69-4	ND	ug/L	5
1,2,3-Trichloropropane	96-18-4	ND	ug/L	5
1,3,5-Trimethylbenzene	108-67-8	9.	ug/L	5
1,2,4-Trimethylbenzene	95-63-6	29.	ug/L	5
Vinyl Acetate	108-05-4	ND	ug/L	10
Vinyl chloride	75-01-4	ND	ug/L	5
o-Xylene	95-47-6	14.	ug/L	5
m,p-Xylenes		41.	ug/L	5
urrogates		Recovery		QC Limit
4-Bromofluorobenzene	460-00-4	95	%	86 - 115
Dibromofluoromethane	1868-53-7	96	%	86 - 118
1,2-Dichloroethane-d4	17060-07-0	100	%	80 - 120
Toluene-d8	2037-26-5	102	%	88 - 110



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## CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

VW-8

Sample Number:

SF9701211-3

Sample Matrix:

Ground Water

Prep Method:

5030

Analytical Method:

8015/8020

Project ID:

SF9701211

Date Sampled:

01/20/97

Date Received:

01/20/97

Date Prepared: Date Analyzed: 01/22/97

01/22/97

#### BTEX & TPH-Gasoline

Analyte	CAS Number	Results	Units	RL
BTEX & TPH-Gasoline				
Benzene	71-43-2	16.	ug/L	0.4
Ethylbenzene	100-41-4	30.	ug/L	0.3
TPH Gasoline		620	ug/L	50
Toluene	108-88-3	6.8	ug/L	0.3
o-Xylene	95-47-6	15.	ug/L	0.4
m,p-Xylenes		42.	ug/L	0.4
Surrogates		Recovery		QC Limits
a,a,a-Trifluorotoluene	98-08-8	105	*	50 - 150



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# CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name: Sample Number: Sample Matrix: FIELD BLANKS SF9701211-4 Ground Water

Prep Method: Analytical Method: 5030 8260A Project ID: Date Sampled: SF9701211 01/20/97

Date Received:
Date Prepared:

01/20/97 01/20/97 02/01/97

Date Analyzed: 02/01/97

8260, Volatile Organics

nalyte	CAS Number	Results	Units	RL
1260, Volatile Organics				
Acetone	67-64-1	ND	ug/L	20
Benzene	71-43-2	ND	ug/L	5
Bromobenzene	108-86-1	ND	ug/L	5
Bromochloromethane	74~97-5	ND	ug/L	5
Bromodichloromethane	75-27-4	ND	ug/L	5
Bromoform	75-25-2	ND	ug/L	5
Bromomethane	74-83-9	ND	ug/L	5
2-Butanone	78-93-3	ND	ug/L	20
tert-Butylbenzene	98-08-6	ND	ug/L	5
sec-Butylbenzene	135-98-8	ND	ug/L	5
n-Butylbenzene	104-51-8	ND	ug/L	5
Carbon Disulfide	75-15-0	ND	ug/L	5
Carbon tetrachloride	56-23-5	ND	ug/L	5
Chlorobenzene	108-90-7	ND	ug/L	5
Chloroethane	75-00-3	ND	ug/L	5
2-Chloroethylvinyl ether	110-75-8	ND	ug/L	5
Chloroform	67-66-3	ND	ug/L	5
Chloromethane	74-87-3	ND	ug/L	5
4-Chlorotoluene	106-43-4	ND	ug/L	5
2-Chlorotoluene	95-49-8	ND	ug/L	5
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	5
Dibromochloromethane	124-48-1	ND	ug/L	5
1,2-Dibromoethane	106-93-4	ND	ug/L	5
Dibromomethane	74-95-3	ND	ug/L	5
1,4-Dichlorobenzene	106-46-7	ND	ug/L	5
1,3-Dichlorobenzene	541-73-1	ND	ug/L	5
1,2-Dichlorobenzene	95-50-1	ND	ug/L	5
Dichlorodifluoromethane	75-71-8	ND	ug/L	5
1,2-Dichloroethane	107-06-2	ND	ug/L	5
1,1-Dichloroethane	75-34-3	ND	ug/L	5
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	5
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	5
1,1-Dichloroethene	75-35-4	ND	ug/L	5
2,2-Dichloropropane	594-20-7	ND	ug/L	5
1,3-Dichloropropane	142-28-9	ND	ug/L	5
1,2-Dichloropropane	78-87-5	ND	ug/L	5
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	5
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	5

ND: Not detected at or above reporting limit --: Information not available or not applicable

RL: Reporting limit



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#### CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name: Sample Number: FIELD BLANKS SF9701211-4

Sample Matrix:

Ground Water

Prep Method:

5030 Analytical Method: 8260A

Project ID:

SF9701211

Date Sampled: Date Received: 01/20/97 01/20/97

Date Prepared: Date Analyzed: 02/01/97 02/01/97

8260, Volatile Organics

nalyte	CAS Number	Results	Units	RL
1,1-Dichloropropene	563-58-6	ND	ug/L	5
Ethylbenzene	100-41-4	ND	ug/L	5
Freon 113	76-13-1	ND	ug/L	5
Hexachlorobutadiene	87 - 68 - 3	ND	ug/L	5
2-Hexanone	591-78-6	ND	ug/L	20
Isopropylbenzene	98-82-8	ND	ug/L	5
p-Isopropyltoluene	99-87-6	ND	ug/L	5
MTBE	1634-04-4	ND	ug/L	5
4-Methyl-2-Pentanone	108-10-1	ND	ug/L	20
Methylene chloride	75-09-2	ND	ug/L	5
Naphthalene	91-20-3	ИD	ug/L	5
n-Propylbenzene	103-65-1	ND	ug/L	5
Styrene	100-42-5	ND	ug/L	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	5
1,1,1,2-Tetrachloroethane	630-20-6	ND	ug/L	5
Tetrachloroethene	127-18-4	ND	ug/L	5
Toluene	108-88-3	ND	ug/L	5
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	5
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	5
1,1,2-Trichloroethane	79-00-5	ND	ug/L	5
1,1,1-Trichloroethane	71-55-6	ND	ug/L	5
Trichloroethene	79-01-6	ND	ug/L	5
Trichlorofluoromethane	75-69-4	ND	ug/L	5
1,2,3-Trichloropropane	96-18-4	ND	ug/L	5
1,3,5-Trimethylbenzene	108-67-8	ND	ug/L	5
1,2,4-Trimethylbenzene	95-63-6	ND	ug/L	5
Vinyl Acetate	108-05-4	ND	ug/L	10
Vinyl chloride	75-01-4	ND	ug/L	5
o-Xylene	95-47-6	ND	ug/L	5
m,p-Xylenes		ND	ug/L	5
urrogates		Recovery		QC Limit
4-Bromofluorobenzene	460-00-4	92	%	86 - 115
Dibromofluoromethane	1868-53-7	95	%	86 - 118
1,2-Dichloroethane-d4	17060-07-0	101	%	80 - 120
Toluene-d8	2037-26-5	99	%	88 - 110



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#### CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name: Sample Number: FIELD BLANKS SF9701211-4

Sample Matrix:

Ground Water

Prep Method: Analytical Method:

8015/8020

5030

Project ID:

SF9701211 01/20/97

Date Sampled: Date Received:

01/20/97

Date Prepared: Date Analyzed:

01/22/97 01/22/97

BTEX & TPH-Gasoline

Analyte	CAS Number	Results	Units	RL
BTEX & TPH-Gasoline				
Benzene	71-43-2	ND	ug/L	0.4
Ethylbenzene	100-41-4	ND	ug/L	0.3
TPH Gasoline		ND	ug/L	50
Toluene	108-88-3	ND	ug/L	0.3
o-Xylene	95-47-6	ND	ug/L	0.4
m,p-Xylenes		ND	ug/L	0.4
Surrogates		Recovery		QC Limits
a,a,a-Trifluorotoluene	98-08-8	102	%	50 - 150



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# CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

TRIP BLANKS #0110196

Project ID:

SF9701211

Sample Number: Sample Matrix: SF9701211-5 Ground Water Date Sampled: Date Received: 01/20/97 01/20/97

Prep Method:

5030

Date Prepared:

02/01/97

Analytical Method:

8260A

Date Analyzed: 02/01/97

8260, Volatile Organics

Analyte	CAS Number	Results	Units	RL	
8260, Volatile Organics					,
Acetone	67-64-1	ND	ug/L	20	
Benzene	71-43-2	ИŊ	ug/L	5	
Bromobenzene	108-86-1	ND	ug/L	5	
Bromochloromethane	74-97-5	ND	ug/L	5	
Bromodichloromethane	75-27-4	ND	ug/L	5	
Bromoform	75-25-2	ND	ug/L	5	
Bromomethane	74-83-9	ND	ug/L	5	
2-Butanone	78-93-3	ND	ug/L	20	
tert-Butylbenzene	98-08-6	ND	ug/L	5	
sec-Butylbenzene	135-98-8	ND	ug/L	5	
n-Butylbenzene	104-51-8	ND	ug/L	5	
Carbon Disulfide	75-15-0	ND	ug/L	5	
Carbon tetrachloride	56-23-5	ND	ug/L	5	
Chlorobenzene	108-90-7	ND	ug/L	5	
Chloroethane	75-00-3	ND	ug/L	5	
2-Chloroethylvinyl ether	110-75-8	ND	ug/L	5	
Chloroform	67-66-3	ND	ug/L	5	
Chloromethane	74-87-3	ND	ug/L	5	
4-Chlorotoluene	106-43-4	ND	ug/L	5	
2-Chlorotoluene	95-49-8	ND	ug/L	5	
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	5	
Dibromochloromethane	124-48-1	ND	ug/L	5	
1,2-Dibromoethane	106-93-4	ND	ug/L	5	
Dibromomethane	74-95-3	ND	u <b>g</b> /L	5	
1,4-Dichlorobenzene	106-46-7	ND	ug/L	5	
1,3-Dichlorobenzene	541-73-1	ND	ug/L	5	
1,2-Dichlorobenzene	95-50-1	ND	ug/L	5	
Dichlorodifluoromethane	75-71-8	ND	ug/L	5	
1,2-Dichloroethane	107-06-2	ND	ug/L	5	
1,1-Dichloroethane	75-34-3	ND	ug/L	5	
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	5	
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	5	
1,1-Dichloroethene	75-35-4	ND	ug/L	5	
2,2-Dichloropropane	594-20-7	ND	ug/L	5	
1,3-Dichloropropane	142-28-9	ND	ug/L	5	
1,2-Dichloropropane	78-87-5	ND	ug/L	5	
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	5	
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	5	

ND: Not detected at or above reporting limit --: Information not available or not applicable

RL: Reporting limit

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# CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

TRIP BLANKS #0110196

Project ID:

SF9701211 01/20/97

Sample Number: Sample Matrix: SF9701211-5 Ground Water Date Sampled: Date Received:

01/20/97

Prep Method:

5030

Date Prepared:

02/01/97

Analytical Method:

5030 8260A

Date Analyzed:

02/01/97

8260, Volatile Organics

nalyte	CAS Number	Results	Units	RL
1,1-Dichloropropene	563-58-6	ND	ug/L	5
Ethylbenzene	100-41-4	ND	ug/L	5
Freon 113	76-13-1	ND	ug/L	5
Hexachlorobutadiene	87-68-3	ND	ug/L	5
2-Hexanone	591-78-6	ND	ug/L	20
Isopropylbenzene	98-82-8	ND	ug/L	5
p-Isopropyltoluene	99-87-6	ND	ug/L	5
MTBE	1634-04-4	ND	ug/L	5
4-Methyl-2-Pentanone	108-10-1	ND	ug/L	20
Methylene chloride	75-09-2	ND	ug/L	5
Naphthalene	91-20-3	ND	ug/L	5
n-Propylbenzene	103-65-1	ND	ug/L	5
Styrene	100-42-5	ND	ug/L	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	5
1,1,1,2-Tetrachloroethane	630-20-6	ND	ug/L	5
Tetrachloroethene	127-18-4	ND	ug/L	5
Toluene	108-88-3	ND	ug/L	5
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	5
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	5
1,1,2-Trichloroethane	79-00-5	ND	ug/L	5
1,1,1-Trichloroethane	71-55-6	ND	ug/L	5
Trichloroethene	79-01-6	ND	ug/L	5
Trichlorofluoromethane	75-69-4	ND	ug/L	5
1,2,3-Trichloropropane	96-18-4	ND	ug/L	5
1,3,5-Trimethylbenzene	108-67-8	ND	ug/L	5
1,2,4-Trimethylbenzene	95-63-6	ND	ug/L	5
Vinyl Acetate	108-05-4	ND	ug/L	10
Vinyl chloride	75-01-4	ND	ug/L	5
o-Xylene	95-47-6	ND	ug/L	5
m,p-Xylenes		ND	ug/L	5
urrogates		Recovery		QC Limit
4-Bromofluorobenzene	460-00-4	94	*	86 - 115
Dibromofluoromethane	1868-53-7	98	%	86 - 118
1,2-Dichloroethane-d4	17060-07-0	101	%	80 - 120
Toluene-d8	2037-26-5	100	%	88 - 110



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#### CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

TRIP BLANKS #0110196

Project ID:

SF9701211

Sample Number:

SF9701211-5 Ground Water Date Sampled: Date Received:

01/20/97 01/20/97

Sample Matrix:

5030

Date Prepared:

02/02/97

Prep Method:

Analytical Method: 8015/8020

Date Analyzed: 02/02/97

#### BTEX & TPH-Gasoline

Analyte	CAS Number	Results	Units	RL
BTEX & TPH-Gasoline				
Benzene	71-43-2	ND	ug/L	0.4
Ethylbenzene	100-41-4	ND	ug/L	0.3
TPH Gasoline		ИИ	ug/L	50
Toluene	108-88-3	ND	ug/L	0.3
o-Xylene	95-47-6	ND	ug/L	0.4
m,p-Xylenes		ND	ug/L	0.4
Surrogates		Recovery		QC Limits
a,a,a-Trifluorotoluene	98-08-8	96	%	50 - 150

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# CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

METHOD BLANK

Project ID:

SF9701211

Sample Number:

SF9701211-6 Ground Water Date Sampled:

01/20/97

Sample Matrix:

5030

Date Received: Date Prepared:

02/01/97

Prep Method: Analytical Method:

5030 8260A

Date Analyzed:

02/01/97

8260, Volatile Organics

Analyte	CAS Number	Results	Units	RL
8260, Volatile Organics				
Acetone	67-64-1	ND	ug/L	20
Benzene	71-43-2	ND	ug/L	5
Bromobenzene	108-86-1	ND	ug/L	5
Bromochloromethane	74-97-5	ND	ug/L	5
Bromodichloromethane	75-27-4	ND	ug/L	5
Bromoform	75-25-2	ND	ug/L	5
Bromomethane	74-83-9	ND	$\mathtt{ug}/\mathtt{L}$	5
2-Butanone	78-93-3	ND	ug/L	20
tert-Butylbenzene	98-08-6	ND	ug/L	5
sec-Butylbenzene	135-98-8	ND	ug/L	5
n-Butylbenzene	104-51-8	ND	ug/L	5
Carbon Disulfide	75-15-0	ИD	ug/L	5
Carbon tetrachloride	56-23-5	ND	ug/L	5
Chlorobenzene	108-90-7	ND	ug/L	5
Chloroethane	75-00-3	ND	ug/L	5
2-Chloroethylvinyl ether	110-75-8	ND	ug/L	5
Chloroform	67-66-3	ND	ug/L	5
Chloromethane	74-87-3	ND	ug/L	5
4-Chlorotoluene	106-43-4	ND	ug/L	5
2-Chlorotoluene	95-49-8	ND	ug/L	5
1,2-Dibromo-3-chloropropane	96-12-8	ND	ug/L	5
Dibromochloromethane	124-48-1	ND	ug/L	5
1,2-Dibromoethane	106-93-4	ND	ug/L	5
Dibromomethane	74-95-3	ND	ug/L	5
1,4-Dichlorobenzene	106-46-7	ND	ug/L	5
1,3-Dichlorobenzene	541-73-1	ND	ug/L	5
1,2-Dichlorobenzene	95-50-1	ND	ug/L	5
Dichlorodifluoromethane	75-71-8	ND	ug/L	5
1,2-Dichloroethane	107-06-2	ND	ug/L	5
1,1-Dichloroethane	75-34-3	ND	ug/L	5
trans-1,2-Dichloroethene	156-60-5	ND	ug/L	5
cis-1,2-Dichloroethene	156-59-2	ND	ug/L	5
1,1-Dichloroethene	75-35-4	ND	ug/L	5
2,2-Dichloropropane	594-20-7	ND	ug/L	5
1,3-Dichloropropane	142-28-9	ND	ug/L	5
1,2-Dichloropropane	78-87-5	ND	ug/L	5
trans-1,3-Dichloropropene	10061-02-6	ND	ug/L	5
cis-1,3-Dichloropropene	10061-01-5	ND	ug/L	5

ND: Not detected at or above reporting limit --: Information not available or not applicable

RL: Reporting limit

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### CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

METHOD BLANK

Project ID:

SF9701211

Sample Number:

SF9701211-6 Ground Water Date Sampled:

01/20/97

Sample Matrix:

5030

Date Received: Date Prepared:

02/01/97

Prep Method: Analytical Method:

8260A

Date Analyzed:

02/01/97

8260, Volatile Organics

analyte	CAS Number	Results	Units	RL
1,1-Dichloropropene	563-58-6	ND	ug/L	5
Ethylbenzene	100-41-4	ND	ug/L	5
Freon 113	76-13-1	ND	ug/L	5
Hexachlorobutadiene	87~68-3	ND	ug/L	5
2-Hexanone	591-78-6	ND	ug/L	20
Isopropylbenzene	98-82-8	ND	ug/L	5
p-Isopropyltoluene	99~87-6	ND	ug/L	5
MTBE	1634-04-4	ND	ug/L	5
4-Methyl-2-Pentanone	108-10-1	ND	ug/L	20
Methylene chloride	75-09-2	ND	ug/L	5
Naphthalene	91-20-3	ND	ug/L	5
n-Propylbenzene	103-65-1	ИD	ug/L	5
Styrene	100-42-5	ND	ug/L	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/L	5
1,1,1,2-Tetrachloroethane	630-20-6	ND	ug/L	5
Tetrachloroethene	127-18-4	ND	ug/L	5
Toluene	108-88-3	ND	ug/L	5
1,2,4-Trichlorobenzene	120-82-1	ND	ug/L	5
1,2,3-Trichlorobenzene	87-61-6	ND	ug/L	5
1,1,2-Trichloroethane	79-00-5	ND	ug/L	5
1,1,1-Trichloroethane	71-55-6	ND	ug/L	5
Trichloroethene	79-01-6	ND	ug/L	5
Trichlorofluoromethane	75-69-4	ND	ug/L	5
1,2,3-Trichloropropane	96-18-4	ND	ug/L	5
1,3,5-Trimethylbenzene	108-67-8	ND	ug/L	5
1,2,4-Trimethylbenzene	95-63-6	ND	ug/L	5
Vinyl Acetate	108-05-4	ND	ug/L	10
Vinyl chloride	75-01-4	ND	ug/L	5
o-Xylene	95-47-6	ND	ug/L	5
m,p-Xylenes		ND	ug/L	5
Surrogates		Recovery		QC Limits
4-Bromofluorobenzene	460-00-4	94	%	86 - 115
Dibromofluoromethane	1868-53-7	96	%	86 - 118
1,2-Dichloroethane-d4	17060-07-0	101	%	80 - 120
Toluene-d8	2037-26-5	101	*	88 - 110

Page 19 of 19

### CLAYTON ENVIRONMENTAL CONSULTANTS Analytical Report

for

Clayton Environmental Consultants, Inc.

Sample Name:

METHOD BLANK

Sample Number:

SF9701211-6 Ground Water

Sample Matrix: Prep Method:

Analytical Method:

5030

8015/8020

Project ID:

SF9701211

Date Sampled:

Date Received:

01/20/97

Date Prepared:

01/22/97

Date Analyzed:

01/22/97

#### BTEX & TPH-Gasoline

AS Number	Results	Units	RL
L-43-2	ND	ug/L	0.4
00-41-4	ND	ug/L	0.3
=	ND	ug/L	50
08-88-3	ND	ug/L	0.3
5-47-6	ND	ug/L	0.4
-	ND	ug/L	0.4
	Recovery		QC Limits
8-08-8	105	<b>%</b>	50 - 150
()	1-43-2 00-41-4 - 08-88-3 5-47-6 -	00-41-4 ND - ND 08-88-3 ND 5-47-6 ND - ND Recovery	00-41-4 ND ug/L - ND ug/L 08-88-3 ND ug/L 5-47-6 ND ug/L - ND ug/L - ND ug/L - Recovery



# REQUEST FOR LABORATORY ANALYTICAL SERVICES

IN ADODEANT	Page of
IMPORTANT ate Results Requested: STANDARD TAT	For Clayton Use Only Clayton Lab Project No.
ush Charges Authorized? Yes No Phone or Fax Results	9701211

2 Name RICHARD SILVA		Client Job	No. 9-	7182.00	>	Purc	hase C	Order N	0.							
Company CLAYTON		Dept.			, ii	Nan										
Company CLAYTON Mailing Address City, State, Zip	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				SEND INVOICE TO	Com		ING	ER	506	<u> </u>	<14"	<u> </u>			Dept.
City, State, Zip				S Š	Address											
Telephone No.	FAX					City,	State,	Zip				BEAL	FOTE			
Special instructions and/or specific regulatory (method, limit of detection, etc.)	requirem	ents:	Sampl (check if a	es are: applicable)	ners	<b>(</b> E	Inter an	'X' in th	e box b	ANAI	indicate	REQU	t; Enter	a 'P' if F	reserva	ative added.*)
				nking Water undwater	of Containers				0/	//	//	//	//		//	///
*Explanation of Preservative: $P = HCL$				stewater		,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		9/	/ /	/ ,	//	/ /	/,	//	//
CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number	/¢			<u>_</u>	$\angle$	$\angle$	_	$\angle$	$\angle$	_	FOR LAB USE ONLY
mw-3	1-20-9	1330	H20	40mL5	2	XP										
ш <i>ы</i> -3	1-20-97	1330		40 mis	2		Xρ					<u> </u>				
MW-4		1200		40 mis	2	XP										02
MW-4		1200		40mis	2		XP					<u> </u>	<b> </b>		-	
Vw-8		1240		40mis	2	XΡ					<u> </u>	<u> </u>				<u>63</u>
VW-B		1240		40m25	2		XP				<b>!</b>	<u> </u>	<b> </b>			
FIELD BLANKS		1350		40mLS	2	Xe						<u> </u>				Orl Orl
FIELD BLANKS #0110196		1350		40mLS	2		XP					ļ	ļ	↓		
TRIP BLANKS#0110196	<b>₩</b>		<b>V</b>	40mLS	1	Xρ	Xe					<u> </u>	ļ	<del> </del>	<u> </u>	05
	<u> </u>					<u> </u>	<u> </u>			<u> </u>	L_,	<u> </u>	<u> </u>	<u></u>		
CHAIN CHAIN CHAIN	SILY	<u> </u>		(print)	Collec	tor's S	Signatu	re: K	re	hai	-f	fr	h			
Relinquished by: Richard	ldi	ua		1-20-97 5:15pm		ved by					· ×				ate/Tim	
CUSTODY Relinquished by:		[	Date/Time	· · · · · · · · · · · · · · · · · · ·		ved by		A. 1	<del>) n / A</del>	<i>m</i> /	1/2/10	/			ate/Tim	
Method of Shipment:		<del> </del>			<del></del>		Lab by	/_/-	<u> [W]</u>	℄℁≟	1 W	$u_{\perp}$				
Authorized by:(Client Signature MUST Accompany Rec	ruest)	Date	e		Samp	le Co	nditiøp	Upon F	leceipt	: ' 🏻	Acc	eptable	•		omer	(éxplain)
(Chem Signature med a Accompany med	franci.				1											

Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

Detroit Regional Lab 22345 Roethel Drive Novi, MI 48375 (800) 806-5887 (810) 344-1770 FAX (810) 344-2655

Atlanta Regional Lab 400 Chastain Center Blvd., N.W., Suite 490 Kennesaw, GA 30144 (800) 252-9919

Kennesaw, GA 3014-(800) 252-9919 (770) 499-7500 FAX (770) 423-4990 San Francisco Regional Lab 1252 Quarry Lane Pleasanton, CA 94566 (800) 294-1755 (510) 426-2657 FAX (510) 426-0106 Seattle Regional Lab 4636 E. Marginal Way S., Suite 215 Seattle, WA 98134 (800) 568-7755 (206) 763-7364 FAX (206) 763-4189 DISTRIBUTION:

White = Clayton Laboratory
Yellow = Clayton Accounting
Pink = Client Copy



### APPENDIX A

FIELD SURVEY FORMS

### WATER SAMPLING FIELD SURVEY FORM

Job #: <u>4718</u>	2.00 Site	: Ingersole	- RHNO		Date: JAN. 20,199)
Well #: <u></u>	-I Sampli	ng Team: <u></u> ス、	SILVA		
Sampling Met	hod:				
Field Condition	ns: <u>(20404</u>	, cooz, 541	GHT BREE	ZF, ~50°F	
					····
Describe Equi	pment D-Con Be	efore Sampling T	his Well:		
Total Depth of Well:	feet	Time: _	1045	Depth to Water Before Pumping	: <u>9.95</u> feet
Volume Height of Water Column:	feet *	Diameter  2-inch 4-inch .16 65	<u>Volume</u> =	Purge <u>Facto</u> gal *	e <u>r To Purge</u> =
Depth Purging	From:	feet	Time	e Surging Begins:	
Notes on Initia	l Discharge:				
Time	Volume Purge	d pH	Conductivity		Notes
		<del></del>			
				· · · · · · · · · · · · · · · · · · ·	
	<del></del>	<del></del>	<del></del>		

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# WATER SAMPLING FIELD SURVEY FORM (continued)

Time Field Farameter M	easurement Begins	*		
	REP #1	REP #2	REP #3	REP #4
pН				
Conductivity				The same of the sa
T°C		<del></del>		
	<del></del>			
Pre-Sample Collection G	allons Purged:		-	
Time Sample Collection	Begins:		<del>-</del>	
Time Sample Collection	Ends:		<del>-</del>	•
Total Gallons Purged:			<b></b>	•
Comments:				
				······································
	······································	·		

### WATER SAMPLING FIELD SURVEY FORM

Job #: 9718	8 <u>깇, 00</u> Site	: Ingerso	LL-RAND		Date: <u>TAM. 20, 1997</u>
Well #: WW-2 Sampling Team: R. SILVA					
Sampling Met	nod:				
Field Condition	ns: CLOUDY,	coor, 101	MDY, N5	o°F	***
					P-10 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -
Describe Equip	oment D-Con Be	fore Sampling	Γhis Well:		
Total Donth		<u> </u>	·		
Total Depth of Well:	feet	Time:	1040	Depth to Water Before Pumping	: <u>12,11</u> feet
Volume Height of Water Column:		Diameter  2-inch 4-inch .16 (65)			e <u>or To Purge</u> =
	From:				
Notes on Initial	Discharge:			<del></del>	
Time	Volume Purged	j pH	Conductivity	т	Notes

# WATER SAMPLING FIELD SURVEY FORM (continued)

ilme Field Parameter i	Measurement Begins		Marine,	
	REP #1	REP #2	REP #3	REP #4
рH			<del>-                                    </del>	<del></del>
Conductivity		·		
T°C				
Pre-Sample Collection	Gallons Purged:			
Time Sample Collection	n Begins:		<u> </u>	
Time Sample Collection	n Ends:			•
Total Gallons Purged:_			_	•
Comments:				
	· · · · · · · · · · · · · · · · · · ·			
			·	

### WATER SAMPLING FIELD SURVEY FORM

Job #: 97(B	2. <i>00</i> Site:	FHGERSOL	L-RAND	····	Date: Tan. 20,199°	
Well #: MW-3 Sampling Team: R.SILVA						
Sampling Me	thod: <u>Disposable</u>	BAILER				
Field Condition	ons: <u>Partly Cu</u>	oudy, co	201. SLIGH	T BREEZI	= ~55°F	
<del></del>						
Describe Equ	ipment D-Con Befor	e Sampling <sup>*</sup>	This Well:			
•						
			<del></del>			
Total Depth	48.00			Depth to Wa		
of Well:	20.26 feet	Time: _	1103	Before Pump	oing: 14,08 feet	
Volume		Diameter	-	D		
Height of Water		inch 4-inch		<u>Fa</u>	urge actor <u>To Purge</u>	
		_		·	= 16.08	
	From: 2-0		Time	e Surging Beg	ins: <u>/30'2</u>	
Notes on Initia	al Discharge: <u>Cuá</u>	EAR				
Time	Volume Purged	рН	Conductivity	Т	Notes	
1304	4-GAL	9.4	748	17.(	CLÉAR	
1306	8-GAL	9.3	761	17-2	CLEAR	
1308	12-GAL	9.3	794	17.3	CLEAR	
1310	16-GAL	9.1	833	17.3	CLEAR	
			······································			
<del></del>	<del></del>					

# WATER SAMPLING FIELD SURVEY FORM (continued)

Time Field Parameter M	leasurement Begins	:/320		
	REP #1	REP #2	REP #3	REP #4
рH	9.2	9.2	9. é	9.0
Conductivity	766	7#1	757	771
T°C	17.0	17.0	17.1	
Pre-Sample Collection C	Sallons Purged:	16	<del>_</del>	
Time Sample Collection	Begins:	324	<del></del>	
Time Sample Collection	Ends: 13	29	<del></del>	•
Total Gallons Purged:			_	·
Comments:				
·				
·				

### WATER SAMPLING FIELD SURVEY FORM

Job #: 9711	32.00 Site:_	INGEROL	L-RAND		Date: JAN. 29/99
Well #:_ <u>ww</u>	<u>-4</u> Sampling	Team:	SILVA		
Sampling Me	thod: <u>Disposabul</u>	= BAILER			
Field Condition	ons: CLOUDY,	esol, c	DINDY, ~	50°F	
	· ·		·		
-		<del></del>			
Describe Equ	ipment D-Con Before	e Sampling	This Well:		
·					
Total Depth	2721		/	Depth to Wa	
of Well:	27.94 feet	Time:	1054	Before Pum	ping: <u>/5,98</u> feet
Volume	<u></u>	Diameter		<b>-</b>	Purge
Height of Water		nch 4-inch		F	actor To Purge
					4 = 31.08
	From: <u>27</u>		ime	Surging Be	gins: <u>//24</u>
notes on initia	ll Discharge: <u> ピ니</u>	ear_			
Time	Volume Purged	pH	Conductivity	т	Notes
1128	10-GAL	10.9	734	17.2	CLEAR
_1132_	20-GAL	11.0	823	17.1	CLEAR
1135	25-GKL	11.0	839	16.8	CLEAR
1138	32-GAL	11.1	865	16.7	CLEAR
		<del></del>			,

# WATER SAMPLING FIELD SURVEY FORM (continued)

Time Field Parameter Meas	urement Begins:	1150	<del>-</del>	
	REP #1	REP #2	REP #3	REP #4
рH	11.0	10.9	10.8	10,8
Conductivity	885	794	834	851
T°C	17.2	17.2	17.3	17,3
Pre-Sample Collection Gallo	ns Purged:	32	<del></del>	
Time Sample Collection Beg	jins: <u>//</u> 5	75	_	
Time Sample Collection End	ls: <u>/20</u>	0	···	•
Total Gallons Purged:	33		-	·
Comments:	•			
	<del></del>			<del></del>
	<u> </u>			
				•

### WATER SAMPLING FIELD SURVEY FORM

Job #: 97(82.00 Site: FNGERSOLL-RAND Date: JAN. 20,19)					
Well #: YW-6 Sampling Team: R. SILVA					
Sampling Method:					
Field Conditions: CLOUDY, COOL, WINDY, 150°E					
Describe Equipment D-Con Before Sampling This Well:					
Total Depth Depth to Water of Well:feet Time: 1058 Before Pumping: 19,21 fee					
of Well: feet Time: <u>/058</u> Before Pumping: <u>/9,2/</u> fee					
Volume Diameter Height of Purge					
Water         2-inch         4-inch         Volume         Factor         To Purge           Column:					
Depth Purging From: feet					
Notes on Initial Discharge:					
Time Volume Purged pH Conductivity T Notes					

# WATER SAMPLING FIELD SURVEY FORM (continued)

Time Field Parameter N	reasurement Begins		<del>!</del>	
	REP #1	REP #2	REP #3	REP #4
рH	•			<del></del>
Conductivity				
T°C				<del></del>
Pre-Sample Collection (	Sallons Purged:			
Time Sample Collection	Begins:		ndin.	
Time Sample Collection	Ends:			
Total Gallons Purged:	···			•
Comments:				

### WATER SAMPLING FIELD SURVEY FORM

Job #: <u>971</u>	<u>8 2.00</u> Site: <u>2</u>	LNGFR50	LL-RAND		Date: TAH. 20, 199
	<u>- ੪</u> Sampling				•
Sampling Me	thod: DISPOSABL	E BAILER	-		
Field Condition	ons: <u>Partly</u> co	LOUDY C	200L, WINI	24, 255	- 0,-
	· · · · · · · · · · · · · · · · · · ·				
					7.
Describe Equ	ipment D-Con Before	e Sampling	This Well:		
	· · · · · · · · · · · · · · · · · · ·				
	,				
Total Depth				Depth to W	ater
of Well:	25,33 feet	Time:	1050	Before Pum	ping: <u>20.67</u> feet
Volume		Diameter		-	
Height of Water		nch 4-inct		E	Purge actor <u>To Purge</u>
		_	= <u>3.03</u>	gal *	4 = 12.12
	From: 25		Time	Surging Be	gins: 1214
Notes on Initia	al Discharge: <u>Cue</u>	AR			
Time	Volume Purged	pН	Conductivity	Т	Notes
1216	3-6xc	10.3	355	17.7	CIERR
1218	6-GKL	10.1	351	18.3	CLEAR
1220	9-Care	9.9	347	18.5	CLEAR
1222	12-GAL	9.7	370	18.4	CLEAR
	<del></del>	<del></del>			***
	<del></del>			<del></del>	

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# WATER SAMPLING FIELD SURVEY FORM (continued)

Time Field Parameter Meas	urement Begins	:_1230	<del></del>	
	REP #1	REP #2	REP #3	REP #4
pH	9.7	9.6	9.6	9,5
Conductivity	397	383	386	394
T°C	17.9	18.0	18.0	18.1
Pre-Sample Collection Gallo	ons Purged:	12		
Time Sample Collection Beg	gins: <u>( 2</u>	134	<del></del>	
Time Sample Collection End	ds: <u>17</u>	239	-	•
Total Gailons Purged:	13		<del>nata</del>	·
Comments:	·			



### PROJECT CALCULATION SHEET

Project Name: Project Number: Task Number: Re:	San Learder 001-727 510 Calambetra	cocty		John YM. 12197 08
aCalletter !	I. estima	on of gran	e ce la	صعب
Specify for I				
o using the	January	1997 dita	. for u	m vien
1= K	<u>८</u>			
V= qu	, tow veco	icity		
V- h	- Culewally	o rductivil	<u>~</u> .	
`c= h	Columber	gradiene		
<b>~</b> =	percoral			
Estimate o	, <del> </del>		4	
K- 9 5	the day (for	on pump	-4 +c31	.)
N- 30	127.5 (6	o(trom lit	المعادية	)
	<u>9 261 day)</u>			
gara. Halingar	0.24 ft	•		
	88 tt/2,	<b>√</b>		
\ V- (	D. 24.CE   20	JZ EB VO P	(4)	Charked h

Checked by:

### Table 1 Water Level Summary Table

Project: Ingersoll-Rand Company, San Leandro, CA water level data

Date prepared: April 15, 1995 Latest update: March 27, 1997

Prepared by: JJM

Well	Date of measurement	Measuring point elevation (feet)	Depth to water (feet)	Water level elevation (feet)
MW-1	13-Dec-89	24.78	14.01	10.77
*****	16-Nov-90	24.97	14.84	10.13
	03-Apr-92	24.97	12.10	12.87
	21-Jun-94	24.95	12.98	11.97
	20-Oct-94	24.95	13.84	11.11
	25-Jan-95	24.95	10.32	14.63
	25-Apr-95	24.95	10.82	14.13
	30-Jun-95	24.95	11.92	13.03
	18-Oct-95	24.95	13.22	11.73
	30-Jan-96	24.95	10.99	13.96
	26-Apr-96	24.95	11.18	13.77
	25-Jul-96	24.95	12.61	12.34
	22-Oct-96	24.95	13.46	11.49
	20-Jan-97	24.95	9.95	15.00
MW-2	13-Dec-89	24.70	14.57	10.13
-	16-Nov-90	24.64	15.05	9.59
	03-Apr-92	24.64	13.60	11.04
	21-Jun-94	24.68	13.86	10.82
	20-Oct-94	24.68	14.31	10.37
	25-Jan-95	24.68	12.01	12.67
	25-Apr-95	24.68	12.54	12.14
	30-Jun-95	24.68	13.22	11.46
	18-Oct-95	24.68	13.86	10.82
	30-Jan-96	24.68	12.49	12.19
	26-Apr-96	24.68	12.76	11.92
	25-Jul-96	24.68	13.59	11.09
	22-Oct-96	24.68	14.03	10.65
	20-Jan-97	24.68	12.11	12.57
MW-3	13-Dec-89	27.33	17.13	10.20
	16-Nov-90	27.51	17.67	9.84
	03-Apr-92	27.57	15.90	11.67
	21-Jun-94	27.51	16.28	11.23
	20-Oct-94	27.51	16.82	10.69
	25-Jan-95	27.51	14.25	13.26
	25-Apr-95	27.51	14.60	12.91
	30-Jun-95	27.51	15.44	12.07
	18-Oct-95	27.51	16.33	11.18
	30-Jan-96	27.51	14.81	12.70
	26-Apr-96	27.51	14.90	12.61
	25-Jul-96	27.51	15.94	11.57
	22-Oct-96	27.51	16.51	11.00
	20-Jan-97	27.51	14.08	13.43

## Table 1 (continued) Water Level Summary Table

Project: Ingersoll-Rand Company, San Leandro, CA water level data

Date prepared: April 15, 1995 Latest update: March 27, 1997

Prepared by: JJM

Well .	Date of measurement	Measuring point elevation (feet)	Depth to water (feet)	Water level elevation (feet)
MW-4	16-Nov-90 03-Apr-92 21-Jun-94 20-Oct-94 25-Jan-95 25-Apr-95 30-Jun-95 18-Oct-95 30-Jan-96 26-Apr-96 25-Jui-96 22-Oct-96 20-Jan-97	28.92 28.92 28.92 28.92 28.92 28.92 28.92 28.92 28.92 28.92 28.92 28.92	20.28 18.25 18.46 19.20 15.94 16.52 17.53 18.63 16.67 16.79 18.13 18.86 15.98	8.64 10.67 10.46 9.72 12.98 12.40 11.39 10.29 12.25 12.13 10.79 10.06 12.94
OB-1	21-Jun-94 20-Oct-94 25-Jan-95 25-Apr-95 30-Jun-95	30.28 30.28 30.28 30.28 30.28	19.56 20.28 16.95 17.53 18.57	10.72 10.00 13.33 12.75 11.71
<b>∨</b> ₩-5	30-Jun-95	3 <b>3</b> .16	21.65	11.51
VW-6	30-Jun-95 18-Oct-95 30-Jan-96 26-Apr-96 25-Jui-96 22-Oct-96 20-Jan-97	31.92 31.92 31.92 31.92 31.92 31.92	20.62 21.61 19.79 19.98 21.17 21.83 19.21	11.30 10.31 12.13 11.94 10.75 10.09 12.71
VW-8	30-Jun-95 18-Oct-95 30-Jan-96 26-Apr-96 25-Jul-96 22-Oct-96 20-Jan-97	33.78 33.78 33.78 33.78 33.78 33.78 33.78	22.32 23.45 21.38 21.53 22.97 23.67 20.67	11.46 10.33 12.40 12.25 10.81 10.11 13.11
VW-9	30-Jun-95	34.58	22.98	11.60

#### Notes:

water level elevations in feet above sea level

elev.source for December 13, 1989: PAR, 1989

elev. source for Nov. 16, 1990: ELG Surveying letter, 11/21/90

elev. source for April 3, 1992: Report on Further Delineation, June 1992

elev. source for June 21, 1994 and later dates: Moran Engineering map, 6/94

elev. source for vent wells: Moran Engineering map,7/95

OB-1 measurements discontinued following June 30, 1995 measurement

Table 2: San Leandro Groundwater Analytical Data Summary

Table 2, 3211 Ceandro																	<del></del>		<del></del>	1	<u> </u>	1 1						<del>,                                    </del>		1		1		ł	1	
					}	bromo-	bromo	[ ]					partion				1	1	1	dibromo-	1.2-denomo-	1,2 d-	dibromo-	1,2-di- chloro-	1 3-d- chioro-	1 4-d:- chloro-	dichloro- difluoro-	1 1-di- chioro-	1,2-d- chioro-	t sede	cas-1,2- cachioro-	trans-1,2- dichlors-	1,2- dichloro-	1,3- dichioro-	2.2- dichioro-	1 1 deciment
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AFI Aspen Research Laboratories CEO Diavton Environmental Consultants Tunternational Technology Corporation

MGL Mobile Chemicabs inc PAC Predision Analy da Cabbrato viinc

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#### Table 2: San Leandro Groundwater Analytical Data Summary

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crp-1-3- trans-1 3- nexachio	_	p-450+ metry- 4-	methyl-	sec-	tert-	1,112   11,22-	1 2,3-	124 11	1. 11.2	thereoro- 123- 124-	:35-		ТРН
Sample dichloro dichloro reon robuta-		propyl- lene 2		n-propyl- butyl-	bufys-	chloro- ethane ethane	chloro- ethene toluene benzen			fluoro- inchioro- inmetriyi- methane propane benzene		p m sylenes overviene sylenes	₹PH
Date collection EPA propens propens benzens 113 diene Aveil Collected by Lab Method (rugit) (rugit) (rugit) (rugit) (rugit)	none penzene		inone MTSE lene b rugit) rugit) rugit)		rugi) (ug/i)	ethane ethane	(ug/i) (ug/i) (ug/i)	benzene etha (ug/l) 'ug		methane propone benzene (ug/l) 'ug/l)		ones o-rysene rylenes on rug-t) rug-ty	gasoine gasoine 'ugi) (ugi)
1774  17-Rov-89   17   PAL   8010-8020   NO	<10	<10 <10	<10	<10 <10	-10 -10	<10 <10	>10&<50 <10 <10	<10<	0 <10 18	<10 <10 <10		<10 <10	40
21-Jun-94 CEC ARC 8015				, ,					, , ,		<5 <10 <5		<50
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25-Jan-95 CEC CEC 6015/80201 24	<20	38 <5 <5	<20 <5	a <5	<5   <5	<5 <5	<5 <5 <5 <5	<5 <	s <5 57	<5 <5	5 <5 <10 <5	<5 6	:
25-Apr-95 CEC CEC 3015/8020 74						1	3.4					2 52	2 2400
30-Jun-95 CEC CEC   8260   <5   <5   17   <5   <5	<20	48 <5 <5	<20 45	11 <5	<5 <5	-6 -6	<5 7 <5 7	<5 <	9 55	<5 <5	8 <5 , <10 <5	31 13	3 2600
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ARC - Assen Research Laboratories MCL - Mobile Chem Labs Inc													

ARC - Aspen Research Laboratories
CEC - Clayton Environmental Consultants
Thernational Technology Coloporation

MCL - Mobile Chem Labs Inc PAL - Precision Analytical Laboratory, Inc.

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Table 2: San Leandro Groundwater Analytical Data Summary

	1	T		T		1	1	bramo-	bromo		T		1	T	carbon							dibromo-	1 2-dibrorno	126-		1 2-0-	13-0-	: 4-05-	dichloro-	1,1-d-	1 2-ds-	1 5-di-	cas-1 2-	trans-1,2-	1 2-	; 3-	2.2-	11-
1	1	Sav	mple		1		bromo-	chiore	dichloro-	bromo-	bromo-	2-buta-	n-butyl-	carbon	tetra-	chioro-	chioro-	chioro-	chioro-	2-chloro-	4-chioro-	chioro-	3-chioro-	bromo	dibromo-	chilare-	chioro-	chioro-	diffuoro-	chiero-	⊄ntons-	cNore-	dichiaro-	dichloro-	dichloro-		dichloro-	diahloro-
	Oate	CO#4	ecton	EPA		benzene	benzene	methane	methane	form	methene	none	benzene	disurficie	chlonde	penzene	ethane	form	methane	toluene	toluene	methane	propens	methene	methene	benzene	benzene	penzene	-metherne	#01204	ethane	othere	ethene	etherne	propene	propene	propene	эгорепе
V/ed	Coffected		by ab	Metho			(Ug/I)	(ug/1)	(ug/l)	(ug/l)	(ug/l)	(ug/I)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(Ug/I)	(ug/l)	(ug/l)	(Ug/I)	(ug/l)	(ug/l)	(ug/l)	(Ug/I)	(ug/l)	(vg/l)	(ug/t)	(ligh)	(ug/l)	(ug/t)	(ug/i)	(ug/l)	( <b>/cp/</b> )	(ug/l)	(ug/l)	(ug/l)
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VVV-6			EC CEC			<0.4		+ '3	+	+	+	1 -25	<del></del>	<del>- ~</del>	<del>  ''</del>		<del> - ''</del>	<del></del>	1	<del>: -3</del>	<del> </del>		<del>                                     </del>	+ ~	<del>  ''</del>	+ ''-		<del></del>	-		1		<del> </del>	<del></del>	<del>-~</del>	<del></del>		
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VV-8	28-Jul-9	<b>*</b>	EC CEC	8.	260 <20	25	50 <5	<5	<5	<5	<5	<20	1 9	¥ <5	<5	<5	<5	<b>&lt;</b> \$	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	<5	<5	-5	<5	<5	c5
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	18-Oct-9				260 <20	2	<b>30 &lt;</b> 5	<5	<5	<5	<5	<20		S <5	<5	<5	< <b>5</b>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	(5)	<5_	<5	<5	<5	<5	ব	<5	<5	<5	<5
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	30-Jan-9		CEC CEC	8	260 <20	<b>S</b> <5	<5	<5	<u> &lt;5</u>	<5	<5	<20	<5	<5	<5	<5	(5	<5	<5	<5	<u> </u>	<5	<5	<5	<5	<5	<5	45	5	<5	<5	<5	<5	1 45	<\$	<5	<5	<u> </u>
	30-Jan-9		CEC CEC				18				<del></del>	4			<u> </u>	<u> </u>	<b>↓</b>			ļ <u>.</u>	<del></del>		1	-	<del>                                     </del>	1	<del> </del>	<del></del>			<del></del> -	ļ	<del> </del>	<del></del>		لسييسه	لسيب	
<u> </u>	26-Apr-9		CEC CEC		260 <20		41 <5	<5	<5	<5	<del>- &lt;5</del>	<20		7 <5	<5	<5	<5	<u> </u>	<5	<5	(5)	<u> </u>	<del>  'S</del>	<5	1 3	- 45	<5	্ব	<5	<5	<5	<5	<5	<5	<5	<5	<5	
			CEC CEC		260 <20		34 72 <5	<5	<5	<5		- 20		- <5	-55	<u> </u>		<5	-6	<5		- 4				1 2		- 45	- <5	<5	- 65		<del> </del>	<del> </del>		5		<5
	25-Jul-9			8015/8			74	+ 3	<del></del>	<del> </del>	<del>+-`</del>	<del>  `~</del>	<del></del>	<del></del>	<del>                                     </del>	+ '3	<del> ~-</del>	<del></del>	<del>                                     </del>	<del> </del>	<del></del>	<del>                                     </del>	+	<del></del>	+	<del></del>	<del></del>	<del></del>	<del></del>	-	<del> </del>	<del>-~</del>	<del>- ~ -</del>	<del>  ~ </del>		<del></del>	<del></del>	
	22-Oct-9				260 <200	<del>-  </del>	70 <50	<50	<50	<50	<50	<200	<50	550	<50	<50	<50	<50	<50	<50	<50	<50	<50	S50	<50	<50	<50	<50	<b>550</b>	<50	<50	<50	<50	<50	<50	<50	<50	<50
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FILE, H \QUATTRO\SLWATNEW.W81 prepared by JJM, 1/95 updated; 3/97

Table 2: San Leandro Groundwater Analytical Data Summary

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ARC - Aspen Research Laboratories CEC - Clayton Environmental Consultants IT - International Technology Corporation

FILE, H'QUATTRO\SLWATNSWW81 prepared by, JJM, 1/95 updated 12/96

MCL - Mobile Chem Labs Inc PAL - Precision Analytical Laboratory, Inc.

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### TABLE 3

Note: Photoionization detection (PID) readings, in ppm, using OVM 580M

	_,	Blower/	Vessel #1/	Vessel #2/		C
Date	Time	Vessel #1	Vessel #2	Vessel #3	Exhaust	Comments
10/5/95	4:00 PM	177.0 172.0	1.1 1.1	0.3	0.0	
10/6/95 10/9/95	3:30 PM 3:00 PM	158.0	1.9	0.3	0.0	
10/10/95	6:00 AM	165.0	1.9	0.3	0.0	
10/11/95	8:00 AM	158.0	1.9	0.3	0.0	
10/12/95	5:00 PM	154.0	1.1	0.3	0.0	
10/13/95	4:45 PM	152.0	1.9	0.3	0.0	
10/14/95	11:00 AM	148.0	1.9	0.3	0.0	
10/16/95	12:00 PM	148.0	1.9	0.3	0.0	
10/17/95	1:25 PM	147.0	1.3	0.3	0.0	
10/18/95	12:00 PM	146.0	1.2	0.3	0.0	
10/19/95	5:00 PM	126.0	1.9	0.3	0.0	
10/20/95	5:00 PM	130.0	1.9	0.4	0.0	
10/21/95	7:39 AM	132.0	1.5	0.4	0.0	
10/22/95						Sunday off
10/23/95	8:25 AM	125.0	2.3	0.3	0.0	
10/24/95	12:00 PM	115.0	1,9	0.2	0.0	
10/25/95	5:00 PM	112.0	2.3	0.1	0.0	
10/26/95	12:00 PM	110.0	2.4	2.2	1.2	
10/27/95	12:00 PM	111.0	2.3	2.2	1.2	
10/28/95	3:30 PM	109.0	2.7	2.2	1.7	
10/30/95	5:00 PM	101.0	2.6	3.1	3.0	
10/31/95	1:00 PM	103.0	2.6	3.5	2,6	
11/1/95						
11/7/95		89.0	2.0	0.2	0.0	with Toxi RAE
11/7/95		101.0	2.7	2.6	1.0	with Toxi RAE
11/8/95		109.0	2.8	0.5	3.0	with Toxi RAE
11/9/95			- 00			Shut down 11-9 to 11-14 to test meter
11/14/95		69.0	0.8	0.2	0.2 0.2	with Mini RAE
11/15/95 11/16/95		68.2 69.1	0.6	0.4	0.2	with Mini RAE outside = 12.0
11/17/95		09.1	0.0	0.4	0.2	shut down 11-17 to 11-22 to test meters
11/22/95		70.2	0.7	0.4	0.2	outside = 2.0
11/23/95		70.2	0.7	. 0.7		shut off 11-23 to 11-27 for holiday
11/27/95	3:00 PM	71.5	0.8	0.6	0.3	outside = 2.1
11/28/95	5:00 PM	72.0	0.7	0.4	0.2	outside = 2.0
11/29/95	8:25 AM	71.1	0.8	0.4	0.2	outside = 2.1
11/30/95	4:15 PM	70,2	0.8	0.5	0.1	outside = 2.0
12/1/95	5:25 PM	69.8	0.6	0.4	0.2	outside = 2.1
12/2/95	1:52 PM	70.2	0.8	0.4	0.1	outside = 2.0
12/4/95	4:00 PM	70.2	0.9	0.5	0.2	outside = 2.5
12/5/95	5:00 PM	69.5	8.0	0.6	0.2	outside = 2.6
12/6/95	5:00 PM	70.5	0.7	0.4	0.2	outside = 2.4
12/7/95	12:50 PM	69.8	0.8	0.5	0.1	outside = 2.5
12/8/95	5:00 PM	70.2	0.7	0.4	0.2	outside = 2.4
	12:25 PM	69.2	0.9	0.6	0.2	outside = 2.6
12/14/95	5:00 PM	70.3	0.8	0.4	0.2	outside = 2.5
12/15/95	5:00 PM	70.5	0.9	0.6	0.3	outside = 2.2
12/18/95	5:00 PM	69.8	1.7	0.3	0.0	
12/19/95	4:30 PM	68.8	1.6	0.2	0.0	
	12:25 PM	67.0	1.3	0.5	0.0	
	11:30 AM	69.8	1.7	0.7	0.1	
12/22/95	2:30 PM	67.0	2.3	0.2	0.0	
12/26/95	3:35 PM	63.2	1.3	0.1	0.0	
12/27/95	4:10 PM	59.9	0.8	0.1	0.0	
12/28/95	5:00 PM	58.7	0.6	0.0	0.0	
12/29/95	5:10 PM	58.3	0.4	0.0	0.0	Ohit days 40 00 to 4 0 con and to
12/30/95			l			Shut down 12-30 to 1-9 no one to monitor

		Blower/		Vessel #2/	1	4-
Date	Time	Vessel #1	Vessel #2	Vessel #3	Exhaust	Comments
1/9/96		58.8 56.8	0.8	0.1 0.1	0.0	
1/10/96		55.9	0.6 0.5	0.1	0.0	
1/12/96		55.2	0.5	0.1	0.0	
1/13/96		52.5	0.0	0.0	0.0	
1/14/96		51.6	0.3	0.0	0.0	
1/15/96		50.1	0.3	0.0	0.0	
1/22/96		51.6	0.3	0.0	0.0	
1/23/96		50.1	0.3	0.0	0.0	
1/24/96		49.2	0.3	0.0	0.0	
1/25/96		49.0	0.3	0.0	0.0	
1/26/96 1/29/96		48.7 48.6	0.2 0.2	0.0	0.0 0.0	
1/30/96		47.9	0.2	0.0	0.0	
1/31/96		<del></del>	0.2	0.0	0.0	unit shut off for quarterly sampling
2/1/96		48.2	02	0.0	0.0	and other deathers, outspining
2/2/96		48.7	0.2	0.0	0.0	
2/5/96		49.1	0.2	0.0	0.0	
2/6/96		48.7	0.2	0.0	0.0	
2/9/96						not reading
2/20/96						drained 18 gal.of water
2/21/96						water being exited out of exhaust
2/21/96		3.0	0.0	0.0	0.0	
2/22/96 2/23/96		2.8	0.0	00	0.0	
2/24/96		2.6	0.0	0.0	0.0	
2/26/96		2.7	0.0	0.0	0.0	
2/27/96		29	0.0	0.0	0.0	
2/28/96		2.6	0.0	0.0	0.0	
2/29/96						drained water; tank 1/2 full.
3/1/96		2.4	0.0	0.0	0.0	
3/4/96		1.9	0.0	0.0	0.0	
3/5/96		2.0	0.0	0.0	0.0	
3/6/96		1.8	0.0	0.0	0.0	desired water April 4/2 full
3/7/96 3/20/96		0.0	0.0	0.0	0.0	drained water, tank 1/3 full
3/21/96		0.0	0.0	0.0	0.0	no reading, drained water, 1/3 full
3/22/96		1.5	0.0	0.0	0.0	drained water
3/26/96		1.6	0.0	0.0	0.0	
3/27/96		1.7	0.0	0.0	0.0	
4/3/96		1.2	0.0	0.0	0.0	
4/4/96		1.4	0.0	0.0	0.0	
4/8/96		1.6	0.0	0.0	0.0	
4/9/96		2.8	0.0	0.0	0.0	
4/10/96 4/11/96		2.6 2.9	0.0	0.0	0.0	
4/11/96		2.7	0.0	0.0	0.0	
4/15/96		6.1	<b>U.U</b>	0.0	0.0	system off, no readings
4/16/96						system off; no readings
4/17/96						system off; no readings
4/18/96						system off; no readings
4/19/96		6.9	0.0	0.0	0.0	
4/22/96		7.6	0.0	0.0	0.0	
4/23/96		8.4	0.0	0.0	0.0	
4/24/96		8.2	0.0	0.0	0.0	dusing disease of 10 femiliars.
4/25/96 4/26/96		7.6 7.1	0.0	0.0	0.0	drained water; 1/3 tank of water
4/29/96	<del></del>	9.1	0.0	0.0	0.0	
4/30/96		9.1	0.0	0.0	0.0	
5/1/96		9.8	0.0	0.0	0.0	
5/2/96		9.6	0.0	0.0	0.0	
5/3/96		10.2	0.0	0.0	0.0	
5/6/96						system off, no readings
5/7/96		13.6	0.0	0.0		

Date	Time	Blower/ Vessel #1	Vessel #1/ Vessel #2	Vessel #2/ Vessel #3	Vessel #3/ Exhaust	Comments
5/8/96		14,4	0.0	0.0	0.0	
5/9/96		14.3	0.0	0.0	0.0	
5/10/96		14.4	0.0	0.0	0.0	
5/13/96		<b> </b>				system off, no readings
5/14/96 5/15/96		11.1	0.0	0.0	0.0	system off, no readings raining
5/16/96		10.4	0.0	0.0	0.0	raining
5/17/96		10.4	0.0	0.0	0.0	no readings
5/20/96						no readings
5/21/96						no readings
5/22/96						no readings
5/23/96						no readings
5/24/96						no readings
5/27/96						no readings
5/28/96						no readings
5/29/96					<del> </del>	no readings
5/30/96	<del></del>					no readings
5/31/96 6/3/96		13.2	0.0	0.0	0.0	no readings
6/4/96		13.6	0.0	0.0	0.0	
6/5/96		13.0	0.0	0.0	0.0	
6/6/96		13.5	0.0	0.0	0.0	
6/7/96		13.4	0.0	0.0	0.0	
6/10/96		15.5	0.0	0.0	0.0	
6/11/96		15.3	0.0	0.0	0.0	
6/12/96		16.0	0.0	0.0	0.0	
6/13/96		15.3	0.0	0.0	0.0	
6/14/96		15.1	0.0	0.0	0.0	
6/17/96		10.2	0.0	0.0	0.0	
6/18/96		12.5	0.0	0.0	0.0	
6/19/96	, <del>.</del>	16.6	0.0	0.0	0.0	
6/20/96		17.2	0.0	0.0	0.0	
6/21/96 6/24/96		17.2 19.1	0.0	0.0	0.0	
6/25/96		18.2	0.0	0.0	0.0	
6/26/96		17.2	0.0	0.0	0.0	
6/27/96		16.6	0.0	0.0	0.0	
6/28/96		16.1	0.0	0.0	0.0	
7/1/96		15.1	0.0	0.0	0.0	
7/2/96	,	16.9	0.0	0.0	0.0	
7/3/96		17.1	0.0	0.0	0.0	
7/8/96		18.6	0.0	0.0	0.0	
7/9/96		17.9	0.0	0.0	0.0	
7/10/96		19.1	0.0	0.0	0.0	
7/11/96		16.9	0.0	00	0.0	
7/12/96		16.9	0.0	0.0	0.0	
7/15/96 7/16/96		17.4 16.4	0.0	0.0	0.0	<u> </u>
7/17/96		16.6	0.0	0.0	0.0	
7/18/96		17.2	0.0	0.0	0.0	
7/19/96		16.6	0.0	0.0	0.0	
7/22/96		14.3	0.0	0.0	0.0	
7/23/96		13.6	0.0	0.0	0.0	
7/24/96		13.2	0.0	0.0	0.0	
7/25/96		16.2	0.0	0.0	0.0	
7/26/96		15.1	0.0	0.0	0.0	
7/29/96		14.7	0.0	0.0	0.0	
7/30/96		14.3	0.0	0.0	0.0	
7/31/96		13.7	0.0	0.0	0.0	
8/1/96		14.5	0.0	0.0	0.0	
8/2/96		13.2	0.0	0.0	0.0	
8/5/96		14.5	0.0	0.0	0.0	
8/6/96		11.4	0.0	0.0	0.0	L

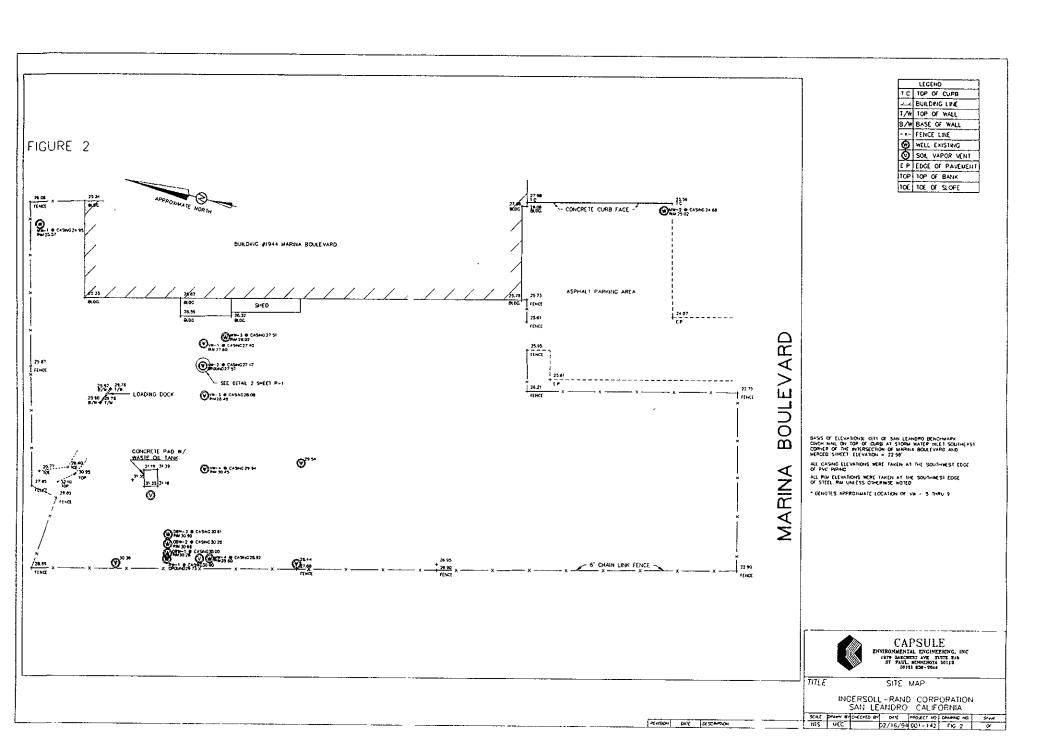
Date	Time	Blower/ Vessel #1	Vessel #1/ Vessel #2	Vessel #2/ Vessel #3	Vessel #3/ Exhaust	Comments
8/7/96		8.0	0.0	0.0	0.0	
8/8/96		9.7	0.0	0.0	0.0	
8/9/96		11.0	0.0	0.0	0.0	
8/12/96		10.6	0.0	0.0	0.0	
8/13/96 8/14/96		10.4 10.1	0.0	0.0	0.0	
8/15/96		10.1	0.0	0.0	0.0	
8/16/96		10.2	0.0	0.0	0.0	
8/19/96		9.7	0.0	0.0	0.0	
8/20/96		9.3	0.0	0.0	0.0	
8/21/96		9.4	0.0	0.0	0.0	
8/22/96		8.6	0.0	0.0	0.0	
8/23/96		8.8	0.0	0.0	0.0	
8/26/96		2.7	0.0	0.0	0.0	
8/27/96 8/28/96	•••	0.1 3 1	0.0	0.0	0.0	
8/29/96		2.1	0.0	0.0	0.0	
8/30/96		2.5	0.0	0.0	0.0	
9/2/96		3.9	0.0	0.0	0.0	
9/3/96		3.8	0.0	0.0	0.0	
9/4/96		4.2	0.0	0.0	0.0	
9/5/96		4.7	0.0	0.0	0.0	
9/6/96		4.5	0.0	0.0	0.0	
9/7/96						no reading (weekend)
9/8/96						no reading (weekend)
9/9/96		3.8	0.0	0.0	0.0	
9/10/96		3.9	0.0	0.0	0.0	
9/11/96		4.2	0.0	0.0	0.0	
9/12/96 9/13/96		4.8 3.7	0.0	0.0	0.0	
9/16/96		3.7	0.0	0.0	0.0	
9/17/96		4.3	0.0	0.0	0.0	
9/18/96		3.1	0.0	0.0	0.0	
9/19/96		4.2	0.0	00	0.0	
9/20/96		3.6	0.0	0.0	0.0	
9/23/96		4.0	0.0	0.0	0.0	
9/24/96		4.8	0.0	0.0	0.0	
9/25/96		4.6	0.0	0.0	0.0	
9/26/96		3.8	0.0	0.0	0.0	
9/27/96		3.8	0.0	0.0	0.0	
9/30/96	•	4.5	0.0	0.0	0.0	
10/1/96		4.3	0.0	0.0	0.0	
10/2/96		3.6	0.0	0.0	0.0	
10/3/96		3.8	0.0	0.0	0.0	
10/4/96		2.7	0.0	0.0	0.0	
10/7/96		2.5	0.0	0.0	0.0	
10/8/96		3.6	0.0	0.0	0.0	
10/9/96		3.8	0.0	0.0	0.0	
10/10/96		4.5	0.0	0.0	0.0	
10/11/96		4.3	0.0	0.0	0.0	
10/14/96		4.2	0.0	0.0	0.0	
10/15/96		3.8	0.0	0.0	0.0	
10/16/96		3.4	0.0	0.0	0.0	
10/17/96		3.9	00	0.0	0.0	
10/18/96	<del> </del>	3.7	0.0	0.0	0.0	
10/21/96		3.1	0.0	0.0	0.0	
10/22/96		2.4	0.0	0.0	0.0	
10/23/96		2.5	0.0	0.0	0.0	
10/24/96		1.7	0.0	0.0	0.0	
10/25/96 10/28/96	• • •	1.9	0.0	0.0	0.0	
		2.8		0.0		Poiny Day
10/29/96 10/30/96	· · · · · ·		0.0	0.0	0.0	Rainy Day
10/30/96		2.3 1.9	00	0.0	0.0	Rainy Day
10/31/90		1.9	0.0	0.0	UU	

Date	Time	Blower/ Vessel #1	Vessel #1/ Vessel #2	Vessel #2/ Vessel #3	Vessel #3/ Exhaust	Comments
11/1/96		1.6	0.0	0.0	0.0	
11/4/96						OVM meter broken
11/5/96						OVM meter broken
11/6/96						OVM meter broken
11/7/96		0.0	0.3	0.0	0.0	
11/8/96		0.0	0.0	0.0	0.0	
11/11/96		0.0	0.0	0.0	0.0	
11/12/96		0.0	0.0	0.0	0.0	
11/13/96		0.0	0.0	0.0	0.0	
11/14/96 11/15/96		0.0	0.0	0.0	00	
11/18/96		0.0	0.0	U.U	- 00	No reading raining
11/19/96						No reading raining
11/20/96		0.0	0.0	0.0	0.0	Tro reading — failing
11/21/96		U.0	0.0	0.0	0.0	No reading raining
11/22/96		0.0	0.0	0.0	0.0	The reading ranning
11/25/96		0.0	0.0	0.0	0.0	
11/26/96		0.0	0.0	0.0	0.0	
11/27/96						Thanksgiving holiday no reading
12/2/96		0.0	0.0	0.0	0.0	
12/3/96		0.0	0.0	0.0	0.0	Drained tank (~2/3 full)
12/4/96						No reading raining
12/5/96		0.0	0.0	0.0	0.0	Drained tank (~1/4 full)
12/6/96		0.0	0.0	0.0	0.0	
12/9/96		0.0	0.0	0.0	0.0	
12/10/96		0.0	0.0	0.0	0.0	
12/11/96		0.0	0.0	0.0	0.0	
12/12/96		0.0	0.0	0.0	0.0	
12/13/96		0.0	0.0	0.0	0.0	
12/16/96		0.0	0.0	0.0	0 0	
12/17/96		0.0	0.0	0.0	00	
12/18/96		0.0	0.0	0.0	0.0	
12/19/96		0.0	0.0	0.0	0.0	
12/20/96		0.0	0.0	0.0	0.0	
12/23/96		0.0	0.0	0.0	0.0	Drained tank (~1/2)
12/24/96		0.0	0.0	0.0	0.0	Ob and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
12/25/96 12/26/96	· · · · · · · · · · · · · · · · · · ·		0.0	0.0	0.0	Christmas holiday no reading
12/27/96		0.0	0.0	0.0	0.0	
12/30/96		0.0	0.0	0.0	0.0	
12/31/96		0.0	0.0	0.0	0.0	No reading raining
1/1/97						New Year's Day holiday no reading
1/2/97						No reading raining
1/3/97						No reading - raining
1/6/97		0.0	0.0	0.0	0.0	Drained tank (~1/4)
1/7/97		0.0	0.0	0.0	0.0	
1/8/97		0.0	0.0	0.0	0.0	
1/9/97		0.0	0.0	0.0	0.0	
1/10/97		0.0	0.0	0.0	0.0	
1/13/97						No reading unit off for 2 weeks (drained tank ~1/4)
	URNED O	FF FROM 1/1	4/97 to 2/5/9	7 DUE TO R		G AND ELECTRICAL PROBLEMS
2/6/97		0.0	0.0	0.0	0.0	
2/7/97		0.0	0.0	0.0	0.0	
2/10/97		0.0	0.0	0.0	0.0	
2/11/97		0.0	0.0	0.0	0.0	
			<b>.</b>			

Prepared by: John McDermott, Feb. 1996 Updated by: Julie Theisen, June 1997

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## **Water Level Elevations**

San Leandro, California

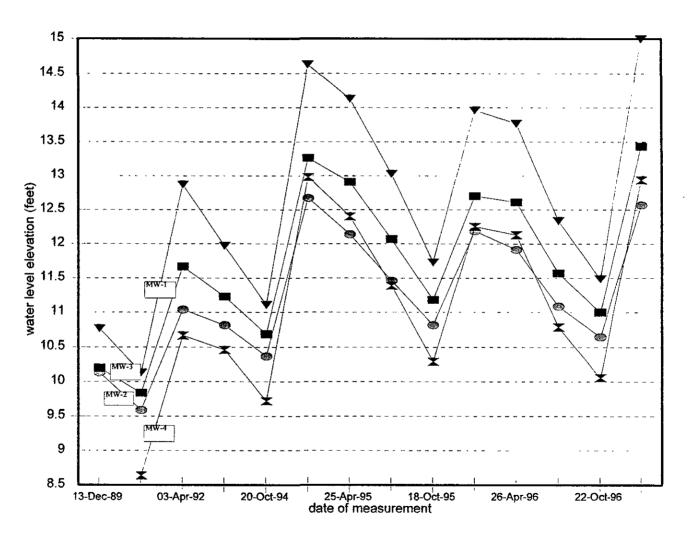
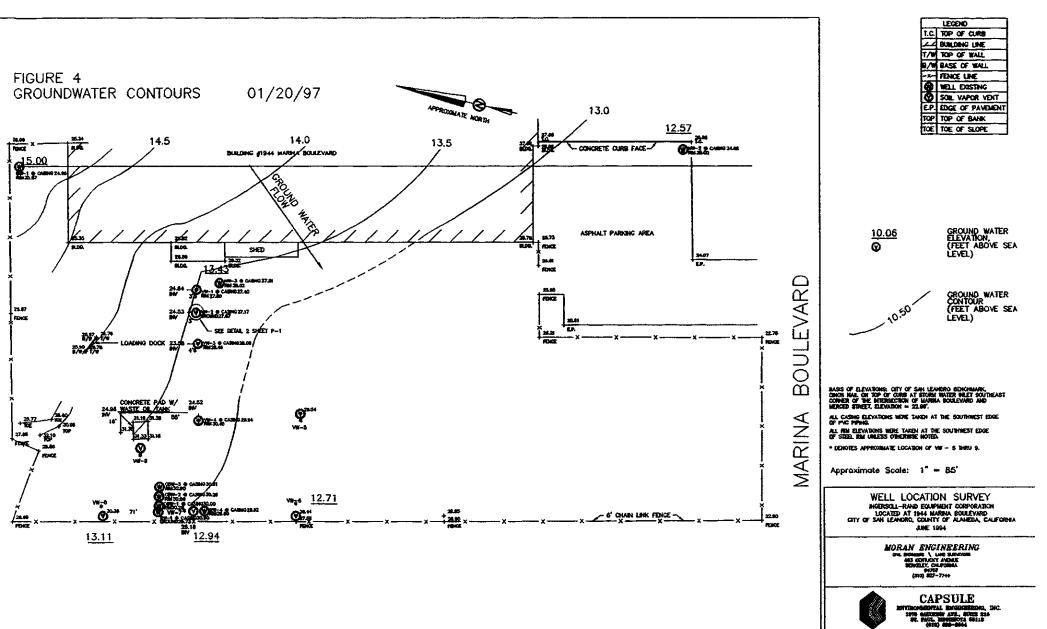


Figure 3

File H \QUATTRO\SLWATLEV WB1 Graph1



GROUND WATER CONTOUR
MAP 1/20/97
INGERSOLL-RAND CORPORATION
SAN LEANDRO, CALIFORNIA SCHE PANIES DECOMES BY DATE PROJECT HO. COMMING HO.
NIS DECYLIN DE/14/97 001-327

TITLE

MEMORINE DIGIT DESCRIPTION

SVE Monitoring Ingersoll-Rand / San Leandro, California

