

3480 Buskirk Avenue  
Pleasant Hill, CA 94523-4342  
PO Box 8045  
Walnut Creek, CA 94596-1220  
(415) 937-9010  
FAX (415) 937-9026

90 MAR 22 AM 10:32

March 20, 1990

Mr. Larry Seto  
Alameda County Health Agency  
Division of Hazardous Materials  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, California 94621

11-42-5081-01/5

Subject: Minutes of March 1, 1990 Meeting between  
Alameda County, James River Corporation,  
and Brown and Caldwell

Dear Mr. Seto:

On March 1, 1990, Bob Wenning of James River Corporation, and Pat Maroney and myself of Brown and Caldwell met with you to discuss conditions at the James River Flexible Packaging Plant located at 2101 Williams Street, San Leandro, California.

The purpose of the meeting was to discuss work performed at the site, and to determine a course of action to complete tank removal activities currently underway. Discussion centered on dried inks encountered during excavation adjacent to the new ink room, and on those encountered during removal of three underground storage tanks (USTs) and associated piping (Figure 1). A copy of the agenda discussed at the meeting is included as Attachment 1.

It is our understanding that the following items will be performed as a result of our discussion:

- Verification samples will be collected from the area around the rail spur where stained soils were excavated (Figure 1). A map indicating proposed sampling locations will be prepared and submitted to the County as part of the work plan described below. Verification samples will be analyzed for purgeable priority pollutants by EPA Method 8240.
- James River will continue with pipeline removal by excavating at 20-foot intervals along the pipeline and cutting and pulling the pipe through the

excavations. The 20-foot interval is required for confirmatory sampling. Proposed confirmatory sampling locations will be indicated on a site map submitted to the County prior to pipeline removal. Confirmatory samples will be analyzed by EPA Methods 8240.

- James River will note any stained soils encountered during pipeline removal described above, but will not excavate the stained soils.
- James River will perform additional soil removal in the ink room excavation. Verification samples will be collected from the excavation sidewalls and bottom. All sampling locations will be noted on a site map submitted to the County. Verification samples will be analyzed for EPA Method 8240, which will detect chlorinated hydrocarbons which may be present related to the pigment stained soils. Soil removed from the excavation will be aerated on site following Bay Area Air Quality Management District guidelines.
- James River will install one additional monitoring well in the verified downgradient direction from stained soils encountered during tank removal. The well location will be chosen after pipeline removal is complete. A work plan outlining proposed methods for this additional well installation will be submitted to the County. The work plan will include a schedule.
- A groundwater survey will be performed to determine whether an off-site source of chlorinated hydrocarbons to the groundwater exists. Analytical results indicate that levels of chlorinated hydrocarbons are highest in wells located along the up-gradient property boundary. James River is currently awaiting site access approval from Southern Pacific Railroad, the up-gradient property owner.
- Upon completion of the additional work agreed to at our meeting, a groundwater remediation program will be designed and implemented.
- Lester Feldman of the San Francisco Bay Regional Water Quality Control Board will receive copies of the work plan and all reports generated by future work at the site.

- 25% Cotton
- Per your phone request, copies of analytical data are included as Attachment 2. Results for the following are included: verification samples 1 through 6 collected from the UST excavation; samples 7 through 11 collected from piping trenches; samples 12 through 15 collected from the ink room excavation; groundwater samples collected in April and August 1989. Additional groundwater data collected as part of the quarterly monitoring program will be forwarded to you as they are available.

Should any of these items require further discussion, please contact me.

Very truly yours,  
BROWN AND CALDWELL



Donna Courington  
Project Manager

DLC:dc



ATTACHMENT 1

AGENDA OF MARCH 1, 1990 MEETING

MEETING AGENDA  
BC/JAMES RIVER CORPORATION/ALAMEDA COUNTY HEALTH DEPARTMENT  
MARCH 1, 1990

1. SITE BACKGROUND
2. CURRENT STATUS
3. FUTURE ACTIONS

## BACKGROUND AND HISTORY

The following is a discussion of events related to former underground storage tanks (USTs) and other soil and groundwater investigations at the James River Corporation (JRC) site. This summary is based only on information made available to Brown and Caldwell (BC). A facility map is included as Figure 1.

- July 1982 - Documented release of approximately 1500 gallons of n-propyl acetate from tank failure. Tank replaced in July 1982.
- June 1983 - Documented release of approximately 2000 gallons of isopropyl acetate from tank failure. Tank replaced in December 1983.
- ???? - Groundwater wells W-1, through W-6 installed.
- 1986 - Harding-Lawson Associates investigation to develop groundwater remediation plan. Installed wells W-7, W-8, W-9, and B-1 (see Figure 1). Acetates, Alcohols, Acetone, and Acids detected in groundwater. High concentrations restricted to wells in vicinity of tanks.
- ???? - Groundwater Remediation Plan formulated.
- April 1988 - City of San Leandro grants permit to discharge treated groundwater to sanitary sewer.
- March to June 1989 - During installation of an underground runoff containment tank stained soil exhibiting odors was noted (Figure 1). BC was contacted to perform an investigation to delineate the extent of the stained soil. Sixteen boreholes were installed (Figure 2). Sampling and analysis of soils surrounding the stained area was conducted. JRC requested the investigation because they wished to define the extent of, and remove, the pigment-stained soil.
- April 1989 - Brown and Caldwell conducts groundwater sampling as part of Groundwater Remediation Plan Evaluation. Chlorinated hydrocarbons detected. The highest levels were detected in wells located hydraulically upgradient off site plume suspected.
- June 1989 - Tank removal activities initiated by James River and ESI/Atlas Hydraulic. Three solvent tanks, located as shown on Figure 1, were removed.
- June 27 & 28 - Samples collected from tank excavation and piping trench in locations shown on Figure 3. Samples

analyzed for constituents stored in tanks. Detectable levels of ethyl alcohol, n-propanol, and n-propyl acetate in 3 of 11 samples.

July 1989 - BC collects composite sample of stained soil identified during runoff containment tank and delineated in March/April investigation. Composite sample analyzed for TCLP 8240 8270 and CAM metals.

August 1989 - BC proposes soil vapor survey to evaluate a possible off-site source of the chlorinated hydrocarbons detected in the site groundwater. JRC contacted Southern Pacific Railroad for access agreement.

Early September 1989 - Correspondence between JRC and Alameda County regarding tanks. 9/1/89 JRC transmits data on storage history for the three tanks. County requests all documents and laboratory reports concerning water quality at the site.

September 26, 1989 - JRC recaps UST removal project and associated soil remediation and described JRC's plans related to remediating soil in pipe trench. Transmitted information on groundwater remediation efforts

September 26, 1989 - Alameda County approves backfilling UST excavation and requests a correction plan for soils in the pipe trench.

October 10, 1989 - Alameda County requests additional information.

October 30, 1989 - JRC summarizes remediation plan.

November 1989 - Chem-Tech delineates an area containing pigment-stained soils that exhibited organic vapors, as shown on Figure 4.

November 1989 - Additional groundwater sampling August 1989 transmitted to JRC. Report concludes that purgeable organic compounds were present in all wells but that concentrations had decreased when compared with April results. Where detection limits allow comparisons between data, levels of chlorinated hydrocarbons have generally decreased.

December 7, 1989 - JRC describes Chem-Tech's investigation. JRC intends to excavate and dispose at a Class I facility.



December 18, 1989 - Letter from JRC to County regarding stained soil. Requested a site visit from County personnel.

December 1989 - JRC excavates stained soil encountered during runoff containment tank installation. Stained soil transported to a Class I facility. Samples from excavation bottom/sidewalls indicate low levels of PCE as well as BETX are present in soils.

January 1990 - JRC contacted BC to assist in closing tank and piping excavations.

## CURRENT STATUS

- UST excavation backfilled upon County's approval.
- Stained soil identified during piping trench soil remediation has been removed and disposed.
- Piping trenches were temporarily backfilled with gravel to eliminate safety hazards while awaiting County approval to backfill.
- Runoff tank excavation is open. Soil that appeared visually clean is stockpiled on site. Approximately 20 yds of soil contaminated with pigment remains on site awaiting transport to a Class I facility.

#### PLANNED COURSE OF ACTION

- Conduct off-site soil vapor survey to evaluate possible upgradient source of chlorinated hydrocarbons to the groundwater.
- Implement quarterly groundwater monitoring program. First quarter sampling scheduled for March 6 and 7, 1989.
- Remove remaining pipelines and collect verification samples. Close excavation.
- Finish excavation of contaminated soils at runoff containment tank. Backfill and close excavation.
- Submit report to county on planned course of action.

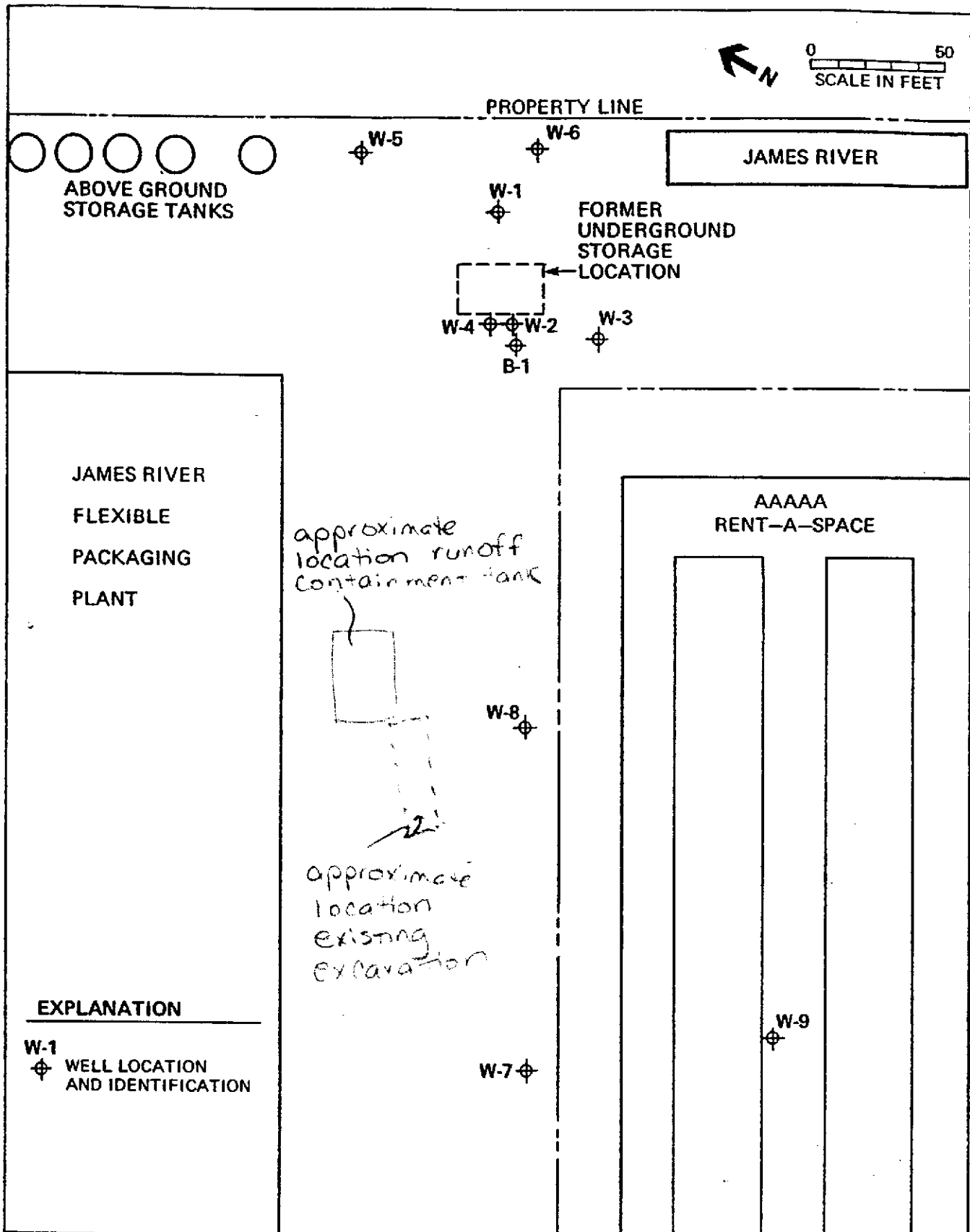
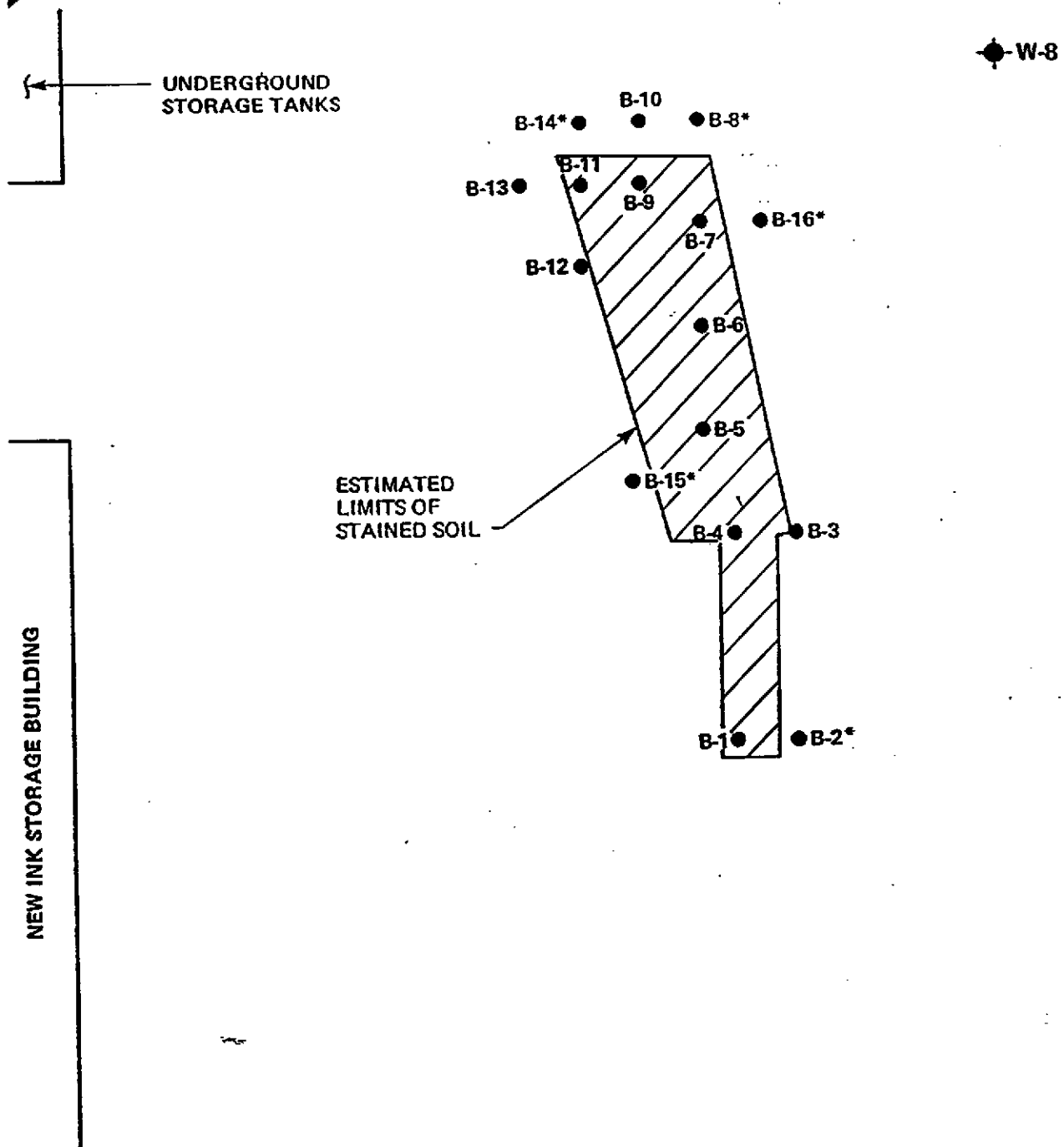


Figure 1 Existing Monitoring Well Locations

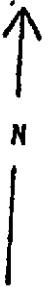
Facility map



- LEGEND:**
- W-8 ●✕ MONITORING WELL LOCATION
  - B-1 ● BOREHOLE LOCATION
  - B-14\* ● SOIL SAMPLE ANALYZED

Figure 1  
2 Stained Soil Location - Runoff Containment Tank Installation

FLEXIBLE PACKAGING DIVISION  
2101 Williams St.  
San Leandro, CA



BUILDING

TANK HOLE

RAMP

56'

#9

#10

Trench

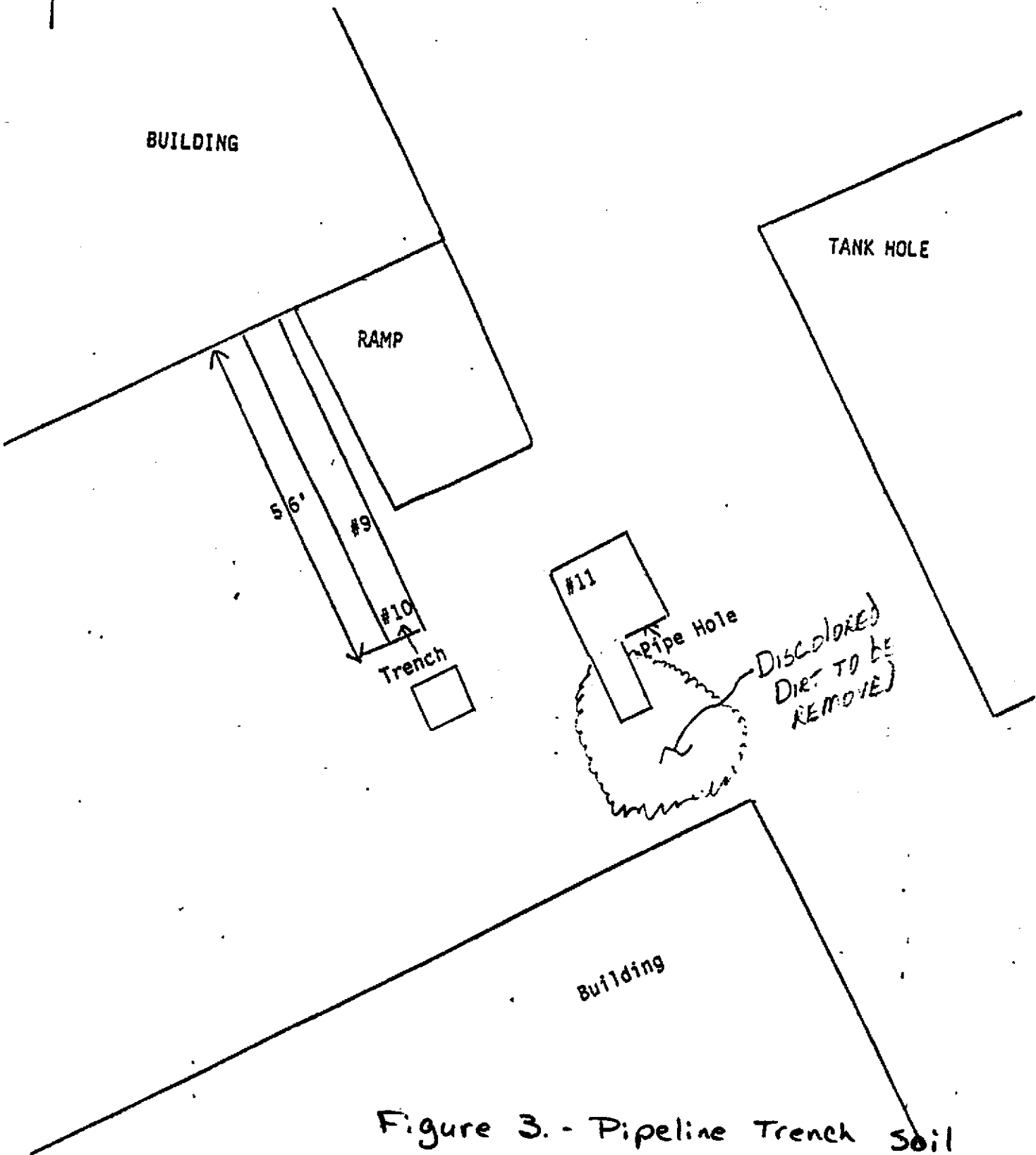
#11

Pipe Hole

DISCOLORED  
DIRT TO BE  
REMOVED

Building

Figure 3. - Pipeline Trench Soil  
Sampling Locations



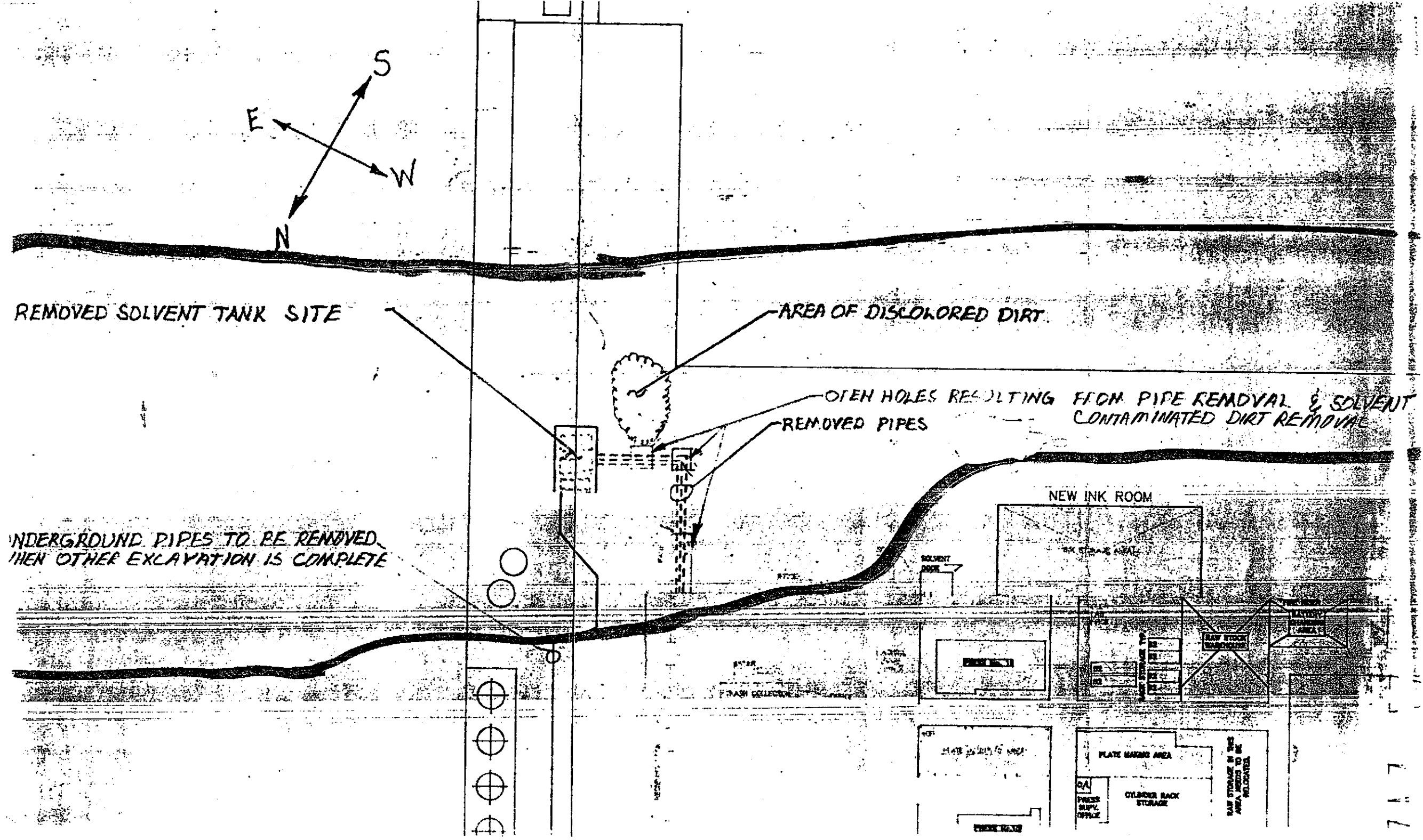
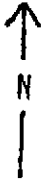


Figure 4. Extent of Discolored Soil Identified by Vapor Survey



Flexible Packaging Division  
2101 Williams Street  
San Leandro, Ca.

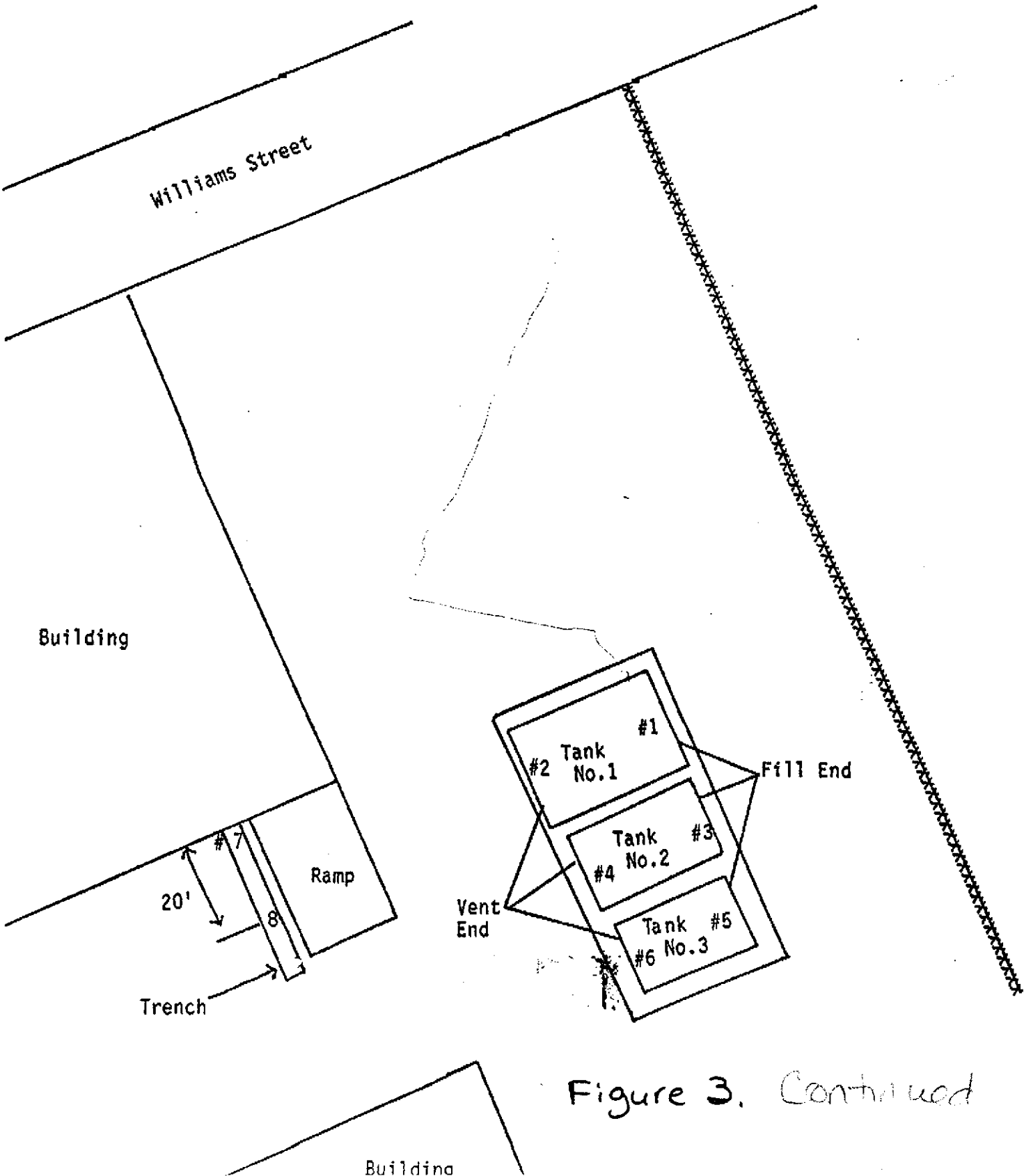


Figure 3. Continued



Table 1 Analytical Results

Well Identification Sampling Date	W 1		W 2		W 3		W 4		W 5		
	Apr-89	Aug-89	Apr-89	Aug-89	Apr-89	Aug-89	Apr-89	Aug-89	Apr-89	Aug-89	Aug-89*
PARAMETER											
Purgeable Organic Compounds, ug/l				NS							
Benzene	<100	<500	<50		<10	<50	<100	<2000	<1	<50	<50
Tetrachloroethene	300	<500	1,000		1,200	100	140	<2000	5,000	1,300	1,100
Trichloroethene	<100	<500	<50		230	<50	<100	<2000	600	450	450
Toluene	<100	<500	920		<10	<50	2,900	8,000	7	<50	<50
Vinyl Chloride	300	<500	450		39	<50	<100	<2000	1,000	690	620
1,2-Dichloroethene	730	<500	1,400		170	<50	720	<2000	6,000	5,000	4,000
1,1,1-Trichloroethane	<100	<500	<50		<10	<50	<100	<2000	<1	<50	<50
Semi-Quantified Results											
Acetone	68,000	370,000	66,000		25,000	3,000	760,000	560,000	77	-	-
2-Butanone	-	-	-		-	-	-	-	-	-	-
2-Hexanone	-	-	1,700		540	-	8,200	40,000	9	-	-
C3H6O2 Ester	-	-	-		-	-	60,000	100,000	-	-	-
C5H10O2 Ester	-	-	1,000		-	-	-	-	-	-	-
Ethanol	-	-	500		-	-	-	-	-	-	-
Isopropanol	-	-	6,000		500	-	30,000	-	-	-	-
Methyl Acetate	-	-	200		-	-	-	-	-	-	-
N-Butyl Acetate	-	-	4,400		-	-	-	-	-	-	-
Propyl Acetate	-	-	900		-	-	400	-	-	-	-
Total Xylene Isomers	-	-	-		-	-	-	-	-	-	-
Methyl Ethyl Ketone	-	-	-		-	-	-	-	-	-	-

Notes:

- Parameters listed above include purgeable organic compounds identified above detection limits.
- ug/l = micrograms per liter
- \* denotes duplicate sample
- NS indicates well not sampled
- indicates semi-quantified result not available

Table 1 Analytical Results (continued)

Well Identification Sampling Date	W 6		W 7		W 8		W 9		B 1	
	Apr-89	Aug-89	Apr-89	Aug-89	Apr-89	Aug-89	Apr-89	Aug-89	Apr-89	Aug-89
PARAMETER										
Purgeable Organic Compounds, ug/l										
Benzene	<1	<5	<1	<5	<5	<50	2	<1	<1	<1
Tetrachloroethene	1,400	920	1,100	940	120	<50	33	37	12	6
Trichloroethene	240	240	260	240	<5	<50	34	37	<1	<1
Toluene	<1	<5	4	<5	200	<50	7	<1	10	<1
Vinyl Chloride	<1	<5	43	<5	15	<50	3	<1	<1	<1
1,2-Dichloroethene	12	<5	140	60	35	<50	16	<1	7	<1
1,1,1-Trichloroethane	<1	5	<1	<5	<5	<50	3	2	<1	6
Semi-Quantified Results										
Acetone	-	-	2,100	-	780,000	8,300	1,400	-	4,500	-
2-Butanone	-	-	-	-	-	2,600	-	-	-	-
2-Hexanone	-	-	150	-	6,400	-	36	-	38	-
C3H6O2 Ester	-	-	-	-	-	-	-	-	-	-
C5H10O2 Ester	-	-	-	-	-	-	-	-	-	-
Ethanol	-	-	20	-	200	-	10	-	-	-
Isopropanol	-	-	200	-	5,000	-	100	-	60	-
Methyl Acetate	-	-	-	-	40	-	-	-	-	-
N-Butyl Acetate	-	-	-	-	-	-	-	-	-	-
Propyl Acetate	-	-	-	-	-	-	-	-	-	-
Total Xylene Isomers	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	-	-	79	-	-	-	-	-	-	-

## Notes:

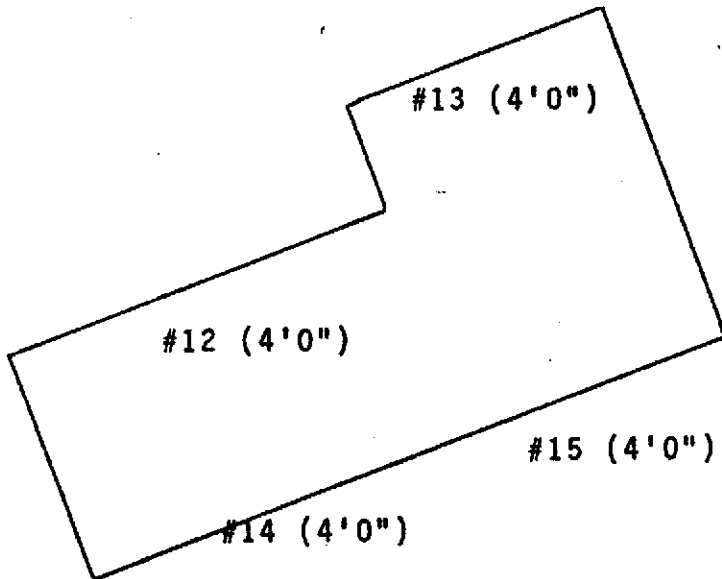
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- ug/l = micrograms per liter
- \* denotes duplicate sample
- NS indicates well not sampled
- indicates semi-quantified result not available

James River Corp.  
Flexible Packaging Division  
2011 Williams St.  
San Leandro, CA

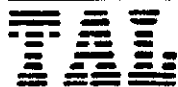


BUILDING

Verification  
sampling results -  
ink room excavation



PAVED  
PARKING LOT



DATE: 1/18/90  
 LOG NO.: 8191  
 DATE SAMPLED: 12/19/89  
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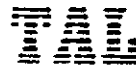
CUSTOMER: Atlas Hydraulic Corporation

REQUESTER: Jim Givens

PROJECT: James River Corporation, 2011 Williams St., San Leandro, CA

Sample Type: Soil

Method and Constituent	Units	No. 12		No. 13		No. 14	
		Concen- tration	Detection Limit	Concen- tration	Detection Limit	Concen- tration	Detection Limit
EPA Method 8010:							
Benzyl Chloride	ug/kg	< 50	50	< 50	50	< 50	50
Bis (2-Chloroethoxy) Methane	ug/kg	< 50	50	< 50	50	< 50	50
Bis (2-Chloroisopropyl) Ether	ug/kg	< 50	50	< 50	50	< 50	50
Bromobenzene	ug/kg	< 50	50	< 50	50	< 50	50
Bromodichloromethane	ug/kg	< 50	50	< 50	50	< 50	50
Bromoform	ug/kg	< 50	50	< 50	50	< 50	50
Bromomethane	ug/kg	< 50	50	< 50	50	< 50	50
Carbon Tetrachloride	ug/kg	< 50	50	< 50	50	< 50	50
Chloroacetaldehyde	ug/kg	< 50	50	< 50	50	< 50	50
Chloral	ug/kg	< 50	50	< 50	50	< 50	50
Chlorobenzene	ug/kg	< 50	50	< 50	50	< 50	50
Chloroethane	ug/kg	< 50	50	< 50	50	< 50	50
<del>Chloroform</del>	ug/kg	< 50	50	< 50	50	< 50	50
1-Chlorohexane	ug/kg	< 50	50	< 50	50	< 50	50
2-Chloroethyl Vinyl Ether	ug/kg	< 50	50	< 50	50	< 50	50
Chloromethane	ug/kg	< 50	50	< 50	50	< 50	50
Chloromethyl Methyl Ether	ug/kg	< 50	50	< 50	50	< 50	50
Chlorotoluene	ug/kg	< 50	50	< 50	50	< 50	50
Dibromochloromethane	ug/kg	< 50	50	< 50	50	< 50	50



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Sample Type: Soil

Method and Constituent	Units	No. 12		No. 13		No. 14	
		Concentration	Detection Limit	Concentration	Detection Limit	Concentration	Detection Limit
EPA Method 8010 (Continued):							
Dibromomethane	ug/kg	< 50	50	< 50	50	< 50	50
1,2-Dichlorobenzene	ug/kg	< 50	50	< 50	50	< 50	50
1,3-Dichlorobenzene	ug/kg	< 50	50	< 50	50	< 50	50
1,4-Dichlorobenzene	ug/kg	< 50	50	< 50	50	< 50	50
Dichlorodifluoromethane	ug/kg	< 50	50	< 50	50	< 50	50
1,1-Dichloroethane	ug/kg	< 50	50	< 50	50	< 50	50
1,2-Dichloroethane	ug/kg	< 50	50	< 50	50	< 50	50
1,1-Dichloroethylene	ug/kg	< 50	50	< 50	50	< 50	50
Trans-1,2-Dichloroethylene	ug/kg	< 50	50	< 50	50	< 50	50
Dichloromethane	ug/kg	< 600	600	< 600	600	< 600	600
1,2-Dichloropropane	ug/kg	< 50	50	< 50	50	< 50	50
1,3-Dichloropropylene	ug/kg	< 50	50	< 50	50	< 50	50
1,1,2,2-Tetrachloroethane	ug/kg	< 50	50	< 50	50	< 50	50
1,1,1,2-Tetrachloroethane	ug/kg	< 50	50	< 50	50	< 50	50
Tetrachloroethylene	ug/kg	< 50	50	< 50	50	50	50
1,1,1-Trichloroethane	ug/kg	< 50	50	< 50	50	< 50	50
1,1,2-Trichloroethane	ug/kg	< 50	50	< 50	50	< 50	50
Trichloroethylene	ug/kg	< 50	50	< 50	50	< 50	50
Trichlorofluoromethane	ug/kg	< 50	50	< 50	50	< 50	50
Trichloropropane	ug/kg	< 50	50	< 50	50	< 50	50
Vinyl Chloride	ug/kg	< 50	50	< 50	50	< 50	50

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Sample Type: Soil

<u>Method and Constituent</u>	<u>Units</u>	<u>No. 15</u>	
		<u>Concen- tration</u>	<u>Detection Limit</u>
EPA Method 8010:			
Benzyl Chloride	ug/kg	< 50	50
Bis (2-Chloroethoxy) Methane	ug/kg	< 50	50
Bis (2-Chloroisopropyl) Ether	ug/kg	< 50	50
Bromobenzene	ug/kg	< 50	50
Bromodichloromethane	ug/kg	< 50	50
Bromoform	ug/kg	< 50	50
Bromomethane	ug/kg	< 50	50
Carbon Tetrachloride	ug/kg	< 50	50
Chloroacetaldehyde	ug/kg	< 50	50
Chloral	ug/kg	< 50	50
Chlorobenzene	ug/kg	< 50	50
Chloroethane	ug/kg	< 50	50
Chloroform	ug/kg	< 50	50
1-Chlorohexane	ug/kg	< 50	50
2-Chloroethyl Vinyl Ether	ug/kg	< 50	50
Chloromethane	ug/kg	< 50	50
Chloromethyl Methyl Ether	ug/kg	< 50	50
Chlorotoluene	ug/kg	< 50	50
Dibromochloromethane	ug/kg	< 50	50
Dibromomethane	ug/kg	< 50	50
1,2-Dichlorobenzene	ug/kg	< 50	50
1,3-Dichlorobenzene	ug/kg	< 50	50
1,4-Dichlorobenzene	ug/kg	< 50	50
Dichlorodifluoromethane	ug/kg	< 50	50
1,1-Dichloroethane	ug/kg	< 50	50



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Sample Type: Soil

<u>Method and Constituent</u>	<u>Units</u>	<u>No. 15</u>	
		<u>Concen- tration</u>	<u>Detection Limit</u>
EPA Method 8010 (Continued):			
1,2-Dichloroethane	ug/kg	< 50	50
1,1-Dichloroethylene	ug/kg	< 50	50
Trans-1,2-Dichloroethylene	ug/kg	< 50	50
Dichloromethane	ug/kg	< 600	600
1,2-Dichloropropane	ug/kg	< 50	50
1,3-Dichloropropylene	ug/kg	< 50	50
1,1,2,2-Tetrachloroethane	ug/kg	< 50	50
1,1,1,2-Tetrachloroethane	ug/kg	< 50	50
Tetrachloroethylene	ug/kg	< 50	50
1,1,1-Trichloroethane	ug/kg	< 50	50
1,1,2-Trichloroethane	ug/kg	< 50	50
Trichloroethylene	ug/kg	< 50	50
Trichlorofluoromethane	ug/kg	< 50	50
Trichloropropane	ug/kg	< 50	50
Vinyl Chloride	ug/kg	< 50	50

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Sample Type: Soil

Method and Constituent	Units	No. 12		No. 13		No. 14	
		Concentration	Detection Limit	Concentration	Detection Limit	Concentration	Detection Limit
EPA Method 8020:							
Benzene	ug/kg	< 200	200	< 100	100	< 50	50
Chlorobenzene	ug/kg	< 100	100	< 100	100	< 50	50
1,2-Dichlorobenzene	ug/kg	< 200	200	< 100	100	< 50	50
1,3-Dichlorobenzene	ug/kg	< 100	100	< 100	100	< 50	50
1,4-Dichlorobenzene	ug/kg	< 200	200	< 100	100	< 50	50
Ethylbenzene	ug/kg	< 200	200	< 100	100	490	50
Toluene	ug/kg	39,000	200	3,800	100	16,000	50
Xylenes	ug/kg	1,200	500	< 300	300	270	200

Method and Constituent	Units	No. 15	
		Concentration	Detection Limit
EPA Method 8020:			
Benzene	ug/kg	720	20
Chlorobenzene	ug/kg	< 10	10
1,2-Dichlorobenzene	ug/kg	< 20	20
1,3-Dichlorobenzene	ug/kg	< 10	10
1,4-Dichlorobenzene	ug/kg	< 20	20
Ethylbenzene	ug/kg	180	20
Toluene	ug/kg	2,100	20
Xylenes	ug/kg	< 50	50





DATE: 1/18/90  
 LOG NO.: 8191  
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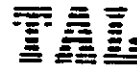
## Sample Type: Soil

Method and Constituent	Units	No. 12		No. 13		No. 14	
		Concen- tration	Detection Limit	Concen- tration	Detection Limit	Concen- tration	Detection Limit
EPA Method 7041: Antimony	ug/kg	< 200	200	< 200	200	< 200	200
EPA Method 7061: Arsenic	ug/kg *	1,600 #	8	2,000 #	8	1,900 #	8
EPA Method 7090: Beryllium	ug/kg	< 300	300	< 300	300	< 300	300
EPA Method 7130: Cadmium	ug/kg	< 800	800	< 800	800	< 800	800
EPA Method 7190: Chromium	ug/kg #	31,000	10,000	36,000 #	10,000	24,000 #	10,000
EPA Method 7210: Copper	ug/kg	19,000	2,000	21,000	2,000	19,000	2,000
EPA Method 7420: Lead	ug/kg	< 5,000	5,000	< 5,000	5,000	< 5,000	5,000
EPA Method 7471: Mercury	ug/kg	17	2	26	2	19	2
EPA Method 7520: Nickel *	ug/kg	39,000 #	3,000	42,000 #	3,000	37,000 #	3,000
EPA Method 7741: Selenium	ug/kg	< 40	40	40	40	< 40	40

DATE: 1/18/90  
 LOG NO.: 8191  
 DATE SAMPLED: 12/19/89  
 DATE RECEIVED: 12/19/89  
 PAGE: Seven

Sample Type: Soil

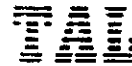
Method and Constituent	Units	No. 12		No. 13		No. 14	
		Concen- tration	Detection Limit	Concen- tration	Detection Limit	Concen- tration	Detection Limit
EPA Method 7760: Silver	ug/kg	< 3,000	3,000	< 3,000	3,000	< 3,000	3,000
EPA Method 7841: Thallium	ug/kg	< 100	100	< 100	100	< 100	100
EPA Method 7950: Zinc	ug/kg	37,000	600	40,000	600	36,000	600



DATE: 1/18/90  
LOG NO.: 8191  
DATE SAMPLED: 12/19/89  
DATE RECEIVED: 12/19/89  
PAGE: Eight

Sample Type: Soil

<u>Method and Constituent</u>	<u>Units</u>	<u>No. 15</u>	
		<u>Concen- tration</u>	<u>Detection Limit</u>
EPA Method 7041: Antimony	ug/kg	< 200	200
EPA Method 7061: Arsenic	ug/kg	1,700	8
EPA Method 7090: Beryllium	ug/kg	< 300	300
EPA Method 7130: Cadmium	ug/kg	< 800	800
EPA Method 7190: Chromium	ug/kg	26,000	10,000
EPA Method 7210: Copper	ug/kg	14,000	2,000
EPA Method 7420: Lead	ug/kg	< 5,000	5,000
EPA Method 7471: Mercury	ug/kg	23	2
EPA Method 7520: Nickel	ug/kg	33,000	3,000
EPA Method 7741: Selenium	ug/kg	< 40	40



DATE: 1/18/90  
LOG NO.: 8191  
DATE SAMPLED: 12/19/89  
DATE RECEIVED: 12/19/89  
PAGE: Nine

Sample Type: Soil

<u>Method and Constituent</u>	<u>Units</u>	<u>No. 15</u>	
		<u>Concen- tration</u>	<u>Detection Limit</u>
EPA Method 7760: Silver	ug/kg	< 3,000	3,000
EPA Method 7841: Thallium	ug/kg	< 100	100
EPA Method 7950: Zinc	ug/kg	38,000	600

*Louis W. DuPuis*

Louis W. DuPuis  
Quality Control/Quality Assurance Manager

LWD:dmg



CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	EPA 13 Metals SD10, SD20 Reg. TAT				REMARKS				
		James River Corporation 2011 Williams St San Leandro CA													
SAMPLERS: (Signature)		[Signature]													
STA. NO.	DATE	TIME	CONF.	GRAB	STATION LOCATION										
#12	12/19	2:45	X	X	Soil (1 BT) (4-03)	2	X	X							
#13	1		X	X	Soil (1 BT) (4-03)	2	X	X							
#14	1		X	X	Soil (1 BT) (4-03)	2	X	X							
#15	89		X	X	Soil (1 BT) (4-03)	2	X	X							
Relinquished by: (Signature)		Date / Time	Received by: (Signature)			Relinquished by: (Signature)		Date / Time	Received by: (Signature)						
Relinquished by: (Signature)		Date / Time	Received by: (Signature)			Relinquished by: (Signature)		Date / Time	Received by: (Signature)						
Relinquished by: (Signature)		Date / Time	Received for Laboratory by: (Signature)			Date / Time	Remarks Bob Wenning								

FLEXIBLE PACKAGING DIVISION

2101 Williams St.

San Leandro, CA

ATTACHMENT  
1

verification sampling  
results - tank and  
piping excavation



BUILDING

TANK HOLE

Samples  
1 through 6  
from  
UST  
excavation

RAMP

56'

#9

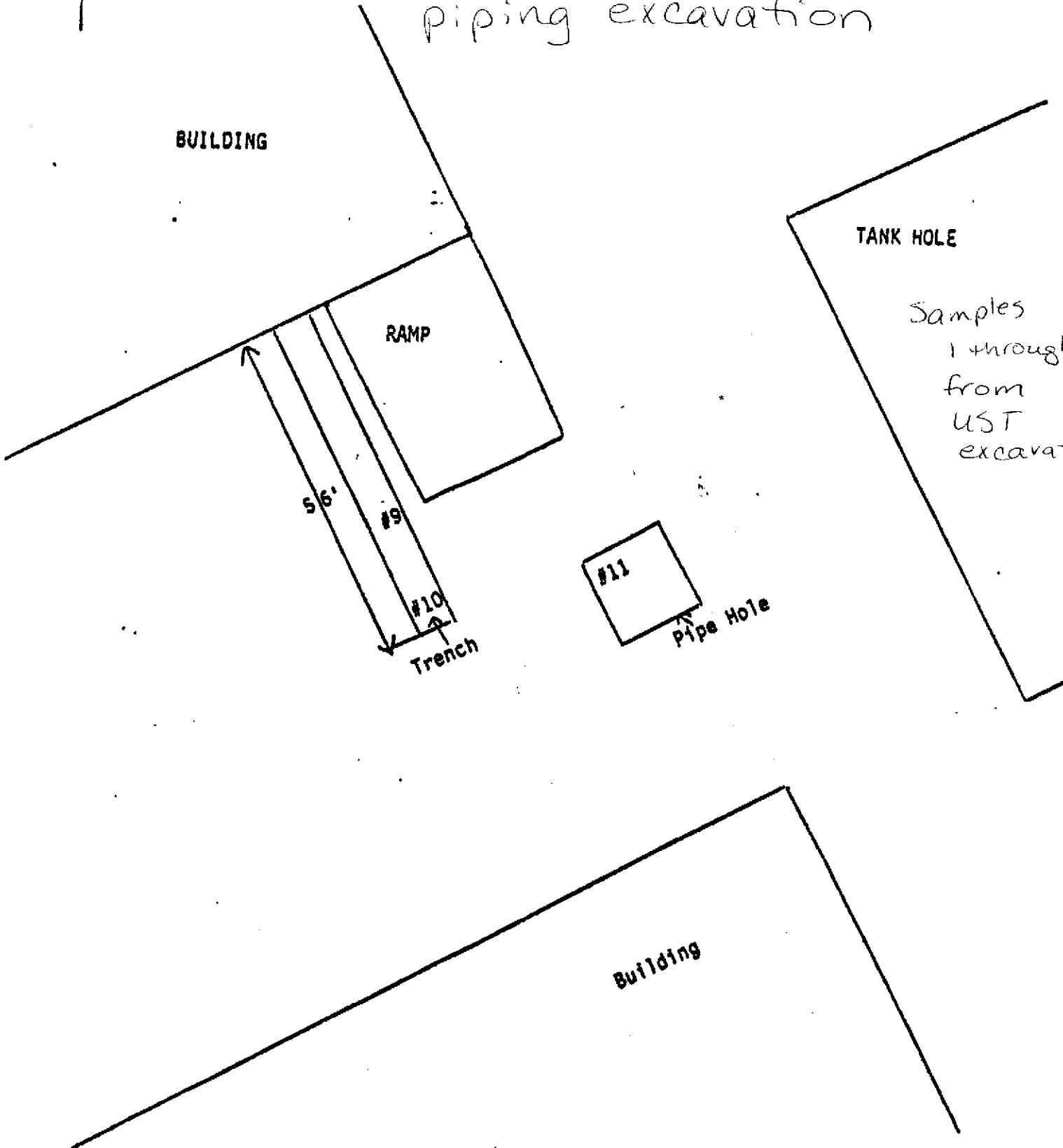
#10

Trench

#11

Pipe Hole

Building





*Rec'd  
14/June/89*

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-04-609

Received: 20 APR 89

Reported: 08 MAY 89

*Groundwater  
Samples - April 1989*

Ms. Paula Diepolder  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

Project: 4459-01

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED				
04-609-1	W-2	20 APR 89				
04-609-2	W-3	20 APR 89				
04-609-3	W-1	20 APR 89				
04-609-4	W-4	20 APR 89				
04-609-5	W-5	20 APR 89				
PARAMETER	04-609-1	04-609-2	04-609-3	04-609-4	04-609-5	
Biochemical Oxygen Demand, mg/L	1900	14	---	---	---	
Flash Point, deg F	NI	NI	---	---	---	
Non-filterable Residue (TSS), mg/L	52	20	---	---	---	

Not ignitable according to the criterion stated within 66702 Division 4, Title 22, California Administrative Code 16 March 1985.



LOG NO: E89-04-609

Received: 20 APR 89

Reported: 08 MAY 89

Ms. Paula Diepolder  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

Project: 4459-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED				
04-609-1	W-2	20 APR 89				
04-609-2	W-3	20 APR 89				
04-609-3	W-1	20 APR 89				
04-609-4	W-4	20 APR 89				
04-609-5	W-5	20 APR 89				
PARAMETER	04-609-1	04-609-2	04-609-3	04-609-4	04-609-5	
<b>Purgeable Priority Pollutants</b>						
Date Extracted	05.03.89	05.03.89	05.03.89	05.03.89	05.04.89	
1,1,1-Trichloroethane, ug/L	<50	<10	<100	<100	2	
1,1,2,2-Tetrachloroethane, ug/L	<50	<10	<100	<100	<1	
1,1,2-Trichloroethane, ug/L	<50	<10	<100	<100	<1	
1,1-Dichloroethane, ug/L	<50	<10	<100	<100	<1	
1,1-Dichloroethene, ug/L	<50	<10	<100	<100	10	
1,2-Dichloroethane, ug/L	<50	<10	<100	<100	<1	
1,2-Dichloroethene (Total), ug/L	1400	170	730	720	6000	
1,2-Dichloropropane, ug/L	<50	<10	<100	<100	<1	
1,3-Dichloropropene, ug/L	<50	<10	<100	<100	<1	
2-Chloroethylvinylether, ug/L	<50	<10	<100	<100	<1	
Acrolein, ug/L	<500	<100	<1000	<1000	<10	
Acrylonitrile, ug/L	<500	<100	<1000	<1000	<10	
Bromodichloromethane, ug/L	<50	<10	<100	<100	<1	
Benzene, ug/L	<50	<10	<100	<100	<1	
Bromomethane, ug/L	<50	<10	<100	<100	<1	
Bromoform, ug/L	<50	<10	<100	<100	<1	
Chlorobenzene, ug/L	<50	<10	<100	<100	<1	
Carbon Tetrachloride, ug/L	<50	<10	<100	<100	<1	
Chloroethane, ug/L	<50	<10	<100	<100	<1	
Chloroform, ug/L	<50	<10	<100	<100	<1	
Chloromethane, ug/L	<50	<10	<100	<100	<1	





LOG NO: E89-04-609

Received: 20 APR 89

Reported: 08 MAY 89

Ms. Paula Diepolder  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

Project: 4459-01

## REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED				
04-609-1	W-2	20 APR 89				
04-609-2	W-3	20 APR 89				
04-609-3	W-1	20 APR 89				
04-609-4	W-4	20 APR 89				
04-609-5	W-5	20 APR 89				
PARAMETER	04-609-1	04-609-2	04-609-3	04-609-4	04-609-5	
Dibromochloromethane, ug/L	<50	<10	<100	<100	<1	
Ethylbenzene, ug/L	<50	<10	<100	<100	<1	
Methylene chloride, ug/L	<50	<10	<100	<100	<1	
Trichloroethene, ug/L	<50	230	<100	<100	600	
Trichlorofluoromethane, ug/L	<50	<10	<100	<100	<1	
Toluene, ug/L	920	<10	<100	2900	7	
Tetrachloroethene, ug/L	1000	1200	300	140	5000	
Vinyl chloride, ug/L	450	39	300	<100	1000	
trans-1,3-Dichloropropene, ug/L	<50	<10	<100	<100	<1	
Semi-Quantified Results **						
2-Hexanone, ug/L	1700	540	---	8200	9	
Acetone, ug/L	66000	25000	68000	760000	77	
C5H10O2 (Ester), ug/L	1000	---	---	60000	---	
C6H14O (Alcohol), ug/L	500	80	---	1000	---	
C6H14O (Ether), ug/L	---	---	---	---	20	
Ethanol, ug/L	500	---	---	---	---	
Isopropanol, ug/L	6000	500	---	30000	---	
Methyl acetate, ug/L	200	---	---	---	---	
N-Butyl acetate, ug/L	440	---	---	---	---	
Propyl Acetate, ug/L	900	---	---	---	---	
Total Xylene Isomers, ug/L	---	---	---	400	---	



LOG NO: E89-04-609

Received: 20 APR 89

Reported: 08 MAY 89

Ms. Paula Diepolder  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

Project: 4459-01

REPORT OF ANALYTICAL RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-609-1	W-2	20 APR 89
04-609-2	W-3	20 APR 89
04-609-3	W-1	20 APR 89
04-609-4	W-4	20 APR 89
04-609-5	W-5	20 APR 89

PARAMETER	04-609-1	04-609-2	04-609-3	04-609-4	04-609-5
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\*\* Quantification based upon comparison of total ion count of the compound with that of the nearest internal standard.



LOG NO: E89-04-609

Received: 20 APR 89

Reported: 08 MAY 89

Ms. Paula Diepolder  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

Project: 4459-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED				
04-609-6	W-6	20 APR 89				
04-609-7	W-7	20 APR 89				
04-609-8	W-8	20 APR 89				
04-609-9	W-9	20 APR 89				
04-609-10	B-1	20 APR 89				
PARAMETER	04-609-6	04-609-7	04-609-8	04-609-9	04-609-10	
<b>Purgeable Priority Pollutants</b>						
Date Extracted	05.03.89	05.03.89	05.03.89	05.03.89	05.03.89	
1,1,1-Trichloroethane, ug/L	<1	2	<5	3	<1	
1,1,2,2-Tetrachloroethane, ug/L	<1	<1	<5	<1	<1	
1,1,2-Trichloroethane, ug/L	<1	<1	<5	<1	<1	
1,1-Dichloroethane, ug/L	<1	<1	<5	<1	<1	
1,1-Dichloroethene, ug/L	<1	<1	<5	<1	<1	
1,2-Dichloroethane, ug/L	<1	<1	<5	<1	<1	
1,2-Dichloroethene (Total), ug/L	12	140	35	16	7	
1,2-Dichloropropane, ug/L	<1	<1	<5	<1	<1	
1,3-Dichloropropene, ug/L	<1	<1	<5	<1	<1	
2-Chloroethylvinylether, ug/L	<1	<1	<5	<1	<1	
Acrolein, ug/L	<10	<10	<50	<10	<10	
Acrylonitrile, ug/L	<10	<10	<50	<10	<10	
Bromodichloromethane, ug/L	<1	<1	<5	<1	<1	
Benzene, ug/L	<1	1	<5	2	<1	
Bromomethane, ug/L	<1	<1	<5	<1	<1	
Bromoform, ug/L	<1	<1	<5	<1	<1	
Chlorobenzene, ug/L	<1	<1	<5	<1	<1	
Carbon Tetrachloride, ug/L	<1	<1	<5	<1	<1	
Chloroethane, ug/L	<1	<1	<5	<1	<1	
Chloroform, ug/L	<1	<1	<5	<1	<1	
Chloromethane, ug/L	<1	<1	<5	<1	<1	



LOG NO: E89-04-609

Received: 20 APR 89

Reported: 08 MAY 89

Ms. Paula Diepolder  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

Project: 4459-01

REPORT OF ANALYTICAL RESULTS

Page 6

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED				
04-609-6	W-6	20 APR 89				
04-609-7	W-7	20 APR 89				
04-609-8	W-8	20 APR 89				
04-609-9	W-9	20 APR 89				
04-609-10	B-1	20 APR 89				
PARAMETER	04-609-6	04-609-7	04-609-8	04-609-9	04-609-10	
Dibromochloromethane, ug/L	<1	<1	<5	<1	<1	
Ethylbenzene, ug/L	<1	<1	<5	<1	<1	
Methylene chloride, ug/L	<1	<1	<5	<1	<1	
Trichloroethene, ug/L	240	260	<5	34	<1	
Trichlorofluoromethane, ug/L	<1	<1	<5	<1	<1	
Toluene, ug/L	<1	4	200	7	10	
Tetrachloroethene, ug/L	1400	1100	120	33	12	
Vinyl chloride, ug/L	<1	43	15	3	<1	
trans-1,3-Dichloropropene, ug/L	<1	<1	<5	<1	<1	
Semi-Quantified Results **						
2-Hexanone, ug/l	---	150	6400	36	38	
Acetone, ug/l	---	2100	780000	1400	4500	
C5H10O2 (Ester), ug/l	---	---	1000	---	200	
C6H14O (Alcohol), ug/L	---	---	---	10	---	
C6H14O (Ether), ug/L	---	---	100	---	---	
C7H14O2 (Ester), ug/L	---	---	10	---	---	
Ethanol, ug/L	---	20	200	10	---	
Isopropanol, ug/l	---	200	5000	100	60	
Methyl ethyl ketone, ug/L	---	79	3300	---	---	
N-Butyl acetate, ug/L	---	---	40	---	---	
Propyl Acetate, ug/L	---	---	100	---	---	
Propylfuran, ug/L	---	---	80	---	---	



LOG NO: E89-04-609

Received: 20 APR 89

Reported: 08 MAY 89

Ms. Paula Diepolder  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

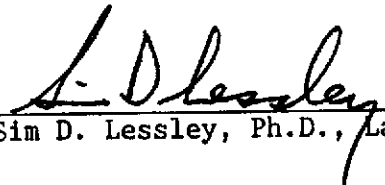
Project: 4459-01

REPORT OF ANALYTICAL RESULTS

Page 7

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-609-6	W-6	20 APR 89
04-609-7	W-7	20 APR 89
04-609-8	W-8	20 APR 89
04-609-9	W-9	20 APR 89
04-609-10	B-1	20 APR 89
PARAMETER	04-609-6    04-609-7    04-609-8    04-609-9    04-609-10	

\*\* Quantification based upon comparison of total ion count of the compound with that of the nearest internal standard.

  
Sim D. Lessley, Ph.D., Laboratory Director



LOG NO: E89-08-375

Received: 16 AUG 89

Reported: 25 AUG 89

Mr. Tim Cook  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

Project: 4459-02

## REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES					DATE SAMPLED
08-375-1	W1					16 AUG 89
08-375-2	W3					16 AUG 89
08-375-3	W4					16 AUG 89
08-375-4	W5					16 AUG 89
08-375-5	W6					16 AUG 89
PARAMETER	08-375-1	08-375-2	08-375-3	08-375-4	08-375-5	
Purgeable Priority Pollutants						
Date Analyzed	08.23.89	08.24.89	08.23.89	08.24.89	08.23.89	
Date Extracted	08.23.89	08.24.89	08.23.89	08.24.89	08.23.89	
Dilution Factor, Times	500	50	2000	50	5	
1,1,1-Trichloroethane, ug/L	<500	<50	<2000	<50	5	
1,1,2,2-Tetrachloroethane, ug/L	<500	<50	<2000	<50	<5	
1,1,2-Trichloroethane, ug/L	<500	<50	<2000	<50	<5	
1,1-Dichloroethane, ug/L	<500	<50	<2000	<50	<5	
1,1-Dichloroethene, ug/L	<500	<50	<2000	<50	<5	
1,2-Dichloroethane, ug/L	<500	<50	<2000	<50	<5	
1,2-Dichloroethene (Total), ug/L	<500	<50	<2000	5000	<5	
1,2-Dichloropropane, ug/L	<500	<50	<2000	<50	<5	
1,3-Dichloropropene, ug/L	<500	<50	<2000	<50	<5	
2-Chloroethylvinylether, ug/L	<500	<50	<2000	<50	<5	
Acrolein, ug/L	<5000	<500	<20000	<500	<50	
Acrylonitrile, ug/L	<5000	<500	<20000	<500	<50	
Bromodichloromethane, ug/L	<500	<50	<2000	<50	<5	
Bromomethane, ug/L	<500	<50	<2000	<50	<5	
Benzene, ug/L	<500	<50	<2000	<50	<5	
Bromoform, ug/L	<500	<50	<2000	<50	<5	
Chlorobenzene, ug/L	<500	<50	<2000	<50	<5	
Carbon Tetrachloride, ug/L	<500	<50	<2000	<50	<5	
Chloroethane, ug/L	<500	<50	<2000	<50	<5	



LOG NO: E89-08-375

Received: 16 AUG 89

Reported: 25 AUG 89

Mr. Tim Cook  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

Project: 4459-02

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED				
08-375-1	W1	16 AUG 89				
08-375-2	W3	16 AUG 89				
08-375-3	W4	16 AUG 89				
08-375-4	W5	16 AUG 89				
08-375-5	W6	16 AUG 89				
PARAMETER	08-375-1	08-375-2	08-375-3	08-375-4	08-375-5	
Chloroform, ug/L	<500	<50	<2000	<50	<5	
Chloromethane, ug/L	<500	<50	<2000	<50	<5	
Dibromochloromethane, ug/L	<500	<50	<2000	<50	<5	
Ethylbenzene, ug/L	<500	<50	<2000	<50	<5	
Methylene chloride, ug/L	<500	<50	<2000	<50	<5	
Trichloroethene, ug/L	<500	<50	<2000	450	240	
Trichlorofluoromethane, ug/L	<500	<50	<2000	<50	<5	
Toluene, ug/L	<500	<50	8000	<50	<5	
Tetrachloroethene, ug/L	<500	100	<2000	1300	920	
Vinyl chloride, ug/L	<500	<50	<2000	690	<5	
trans-1,3-Dichloropropene, ug/L	<500	<50	<2000	<50	<5	
Semi-Quantified Results **						
Acetone, ug/L	370000	3000	560000	---	---	
C3H6O2 Ester, ug/L	---	---	40000	---	---	
C5H10O2 Ester, ug/L	---	---	100000	---	---	

\*\* Quantification based upon comparison of total ion count of the compound with that of the nearest internal standard.



LOG NO: E89-08-375

Received: 16 AUG 89

Reported: 25 AUG 89

Mr. Tim Cook  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

Project: 4459-02

REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED				
08-375-6	W7	16 AUG 89				
08-375-7	W8	16 AUG 89				
08-375-8	W9	16 AUG 89				
08-375-9	B1	16 AUG 89				
08-375-10	W5D	16 AUG 89				
PARAMETER		08-375-6	08-375-7	08-375-8	08-375-9	08-375-10
Purgeable Priority Pollutants						
Date Analyzed		08.24.89	08.24.89	08.23.89	08.23.89	08.24.89
Date Extracted		08.24.89	08.24.89	08.23.89	08.23.89	08.24.89
Dilution Factor, Times		5	50	1	1	50
1,1,1-Trichloroethane, ug/L		<5	<50	2	6	<50
1,1,2,2-Tetrachloroethane, ug/L		<5	<50	<1	<1	<50
1,1,2-Trichloroethane, ug/L		<5	<50	<1	<1	<50
1,1-Dichloroethane, ug/L		<5	<50	<1	<1	<50
1,1-Dichloroethene, ug/L		<5	<50	<1	<1	<50
1,2-Dichloroethane, ug/L		<5	<50	<1	<1	<50
1,2-Dichloroethene (Total), ug/L		60	<50	<1	<1	4000
1,2-Dichloropropane, ug/L		<5	<50	<1	<1	<50
1,3-Dichloropropene, ug/L		<5	<50	<1	<1	<50
2-Chloroethylvinylether, ug/L		<5	<50	<1	<1	<50
Acrolein, ug/L		<50	<500	<10	<10	<500
Acrylonitrile, ug/L		<50	<500	<10	<10	<500
Bromodichloromethane, ug/L		<5	<50	<1	<1	<50
Bromomethane, ug/L		<5	<50	<1	<1	<50
Benzene, ug/L		<5	<50	<1	<1	<50
Bromoform, ug/L		<5	<50	<1	<1	<50
Chlorobenzene, ug/L		<5	<50	<1	<1	<50
Carbon Tetrachloride, ug/L		<5	<50	<1	<1	<50
Chloroethane, ug/L		<5	<50	<1	<1	<50





1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-08-375

Received: 16 AUG 89  
Reported: 25 AUG 89

Mr. Tim Cook  
Brown and Caldwell  
3480 Buskirk Avenue  
Pleasant Hill, California 94523

Project: 4459-02

REPORT OF ANALYTICAL RESULTS

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LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED				
08-375-6	W7	16 AUG 89				
08-375-7	W8	16 AUG 89				
08-375-8	W9	16 AUG 89				
08-375-9	B1	16 AUG 89				
08-375-10	W5D	16 AUG 89				
PARAMETER	08-375-6	08-375-7	08-375-8	08-375-9	08-375-10	
Chloroform, ug/L	<5	<50	<1	<1	<50	
Chloromethane, ug/L	<5	<50	<1	<1	<50	
Dibromochloromethane, ug/L	<5	<50	<1	<1	<50	
Ethylbenzene, ug/L	<5	<50	<1	<1	<50	
Methylene chloride, ug/L	<5	<50	<1	<1	<50	
Trichloroethene, ug/L	240	<50	37	<1	450	
Trichlorofluoromethane, ug/L	<5	<50	<1	<1	<50	
Toluene, ug/L	<5	<50	<1	<1	<50	
Tetrachloroethene, ug/L	940	<50	37	6	1100	
Vinyl chloride, ug/L	<5	<50	<1	<1	620	
trans-1,3-Dichloropropene, ug/L	<5	<50	<1	<1	<50	
Semi-Quantified Results **						
2-Butanone, ug/L	---	2600	---	---	---	
Acetone, ug/L	---	8300	---	---	---	

\*\* Quantification based upon comparison of total ion count of the compound with that of the nearest internal standard.



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REPORT OF ANALYTICAL RESULTS

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LOG NO	SAMPLE DESCRIPTION, BLANK WATER SAMPLES	DATE SAMPLED
08-375-11	Trip Blank	16 AUG 89
PARAMETER		08-375-11
Purgeable Priority Pollutants		
Date Analyzed		08.23.89
Date Extracted		08.23.89
Dilution Factor, Times		1
1,1,1-Trichloroethane, ug/L		<1
1,1,2,2-Tetrachloroethane, ug/L		<1
1,1,2-Trichloroethane, ug/L		<1
1,1-Dichloroethane, ug/L		<1
1,1-Dichloroethene, ug/L		<1
1,2-Dichloroethane, ug/L		<1
1,2-Dichloroethene (Total), ug/L		<1
1,2-Dichloropropane, ug/L		<1
1,3-Dichloropropene, ug/L		<1
2-Chloroethylvinylether, ug/L		<1
Acrolein, ug/L		<10
Acrylonitrile, ug/L		<10
Bromodichloromethane, ug/L		<1
Bromomethane, ug/L		<1
Benzene, ug/L		<1
Bromoform, ug/L		<1
Chlorobenzene, ug/L		<1
Carbon Tetrachloride, ug/L		<1
Chloroethane, ug/L		<1
Chloroform, ug/L		<1
Chloromethane, ug/L		<1
Dibromochloromethane, ug/L		<1
Ethylbenzene, ug/L		<1



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REPORT OF ANALYTICAL RESULTS

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LOG NO	SAMPLE DESCRIPTION, BLANK WATER SAMPLES	DATE SAMPLED
08-375-11	Trip Blank	16 AUG 89
PARAMETER	08-375-11	
Methylene chloride, ug/L		<1
Trichloroethene, ug/L		<1
Trichlorofluoromethane, ug/L		<1
Toluene, ug/L		<1
Tetrachloroethene, ug/L		<1
Vinyl chloride, ug/L		<1
trans-1,3-Dichloropropene, ug/L		<1

*Hedy J. Ficklin for*  
Sim D. Lessley, Ph.D., Laboratory Director