Western Operations

1252 Quarry Lane
Pleasanton, CA 94566
(415) 426-2600
Fax (415) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

Results of Sampling of Two Sumps Located At Southshore Carwash 2351 Shore Line Drive Alameda, California for Harsch Investment Corporation

Clayton Project No. 30903.00

PLTF/DEFT Exhibit 18
WIT DENNIS BYRNE
DATE 11/22/91 CRG
ELYSE R. GARDNER, CSR

INTRODUCTION

Harsch Investment Corporation retained Clayton Environmental Consultants, Inc, to collect samples of liquid and sludge from two sumps located on the east side of the Southshore Carwash at 2351 Shore Line Drive in Alameda, California (Figure 1). Mr. Joseph Munyer, manager of shopping centers for Harsch, verbally authorized the project.

This report briefly summarizes and documents activities at the site. It includes an explanation of the sampling technique employed and laboratory analytical results for the samples.

METHODS

Mr. Michael Johnson, Clayton geologist, sampled the sumps on August 23, 1990.

The two sumps were arbitrarily labeled Sump A and Sump B. Sump A is located north of Sump B and measures 6 feet by 3 feet. Sump B measures 5.25 feet by 2.66 feet. Each sample was given a unique label; samples taken from Sump A begin with the prefix "SA" and samples taken from Sump B begin with the prefix "SB" (Figure 2).

Samples were collected in precleaned jars and bottles supplied by Clayton's laboratory. The samples were transported to Clayton's state-certified laboratory for analysis.

ANALYTICAL RESULTS

Table 1 presents a summary of the analytical results. Only detected compounds are noted in the table. All other compounds for which the laboratory conducted analyses were below detectable limits. The complete analytical report and chain-of-custody documentation is included as Appendix A.

As Table 1 shows, the sludge contained high levels of oil and grease, as well as lead and zinc. There were diesel concentrations of 110 parts per billion (ppb) in the liquid sample from Sump A and 340 ppb in the liquid sample from Sump B..

DISCUSSION

Southshore Carwash has pumped out the sumps and had them steam cleaned since they were sampled by Clayton, according to Mr. Murray Stevens of Kamur Industries, Inc.

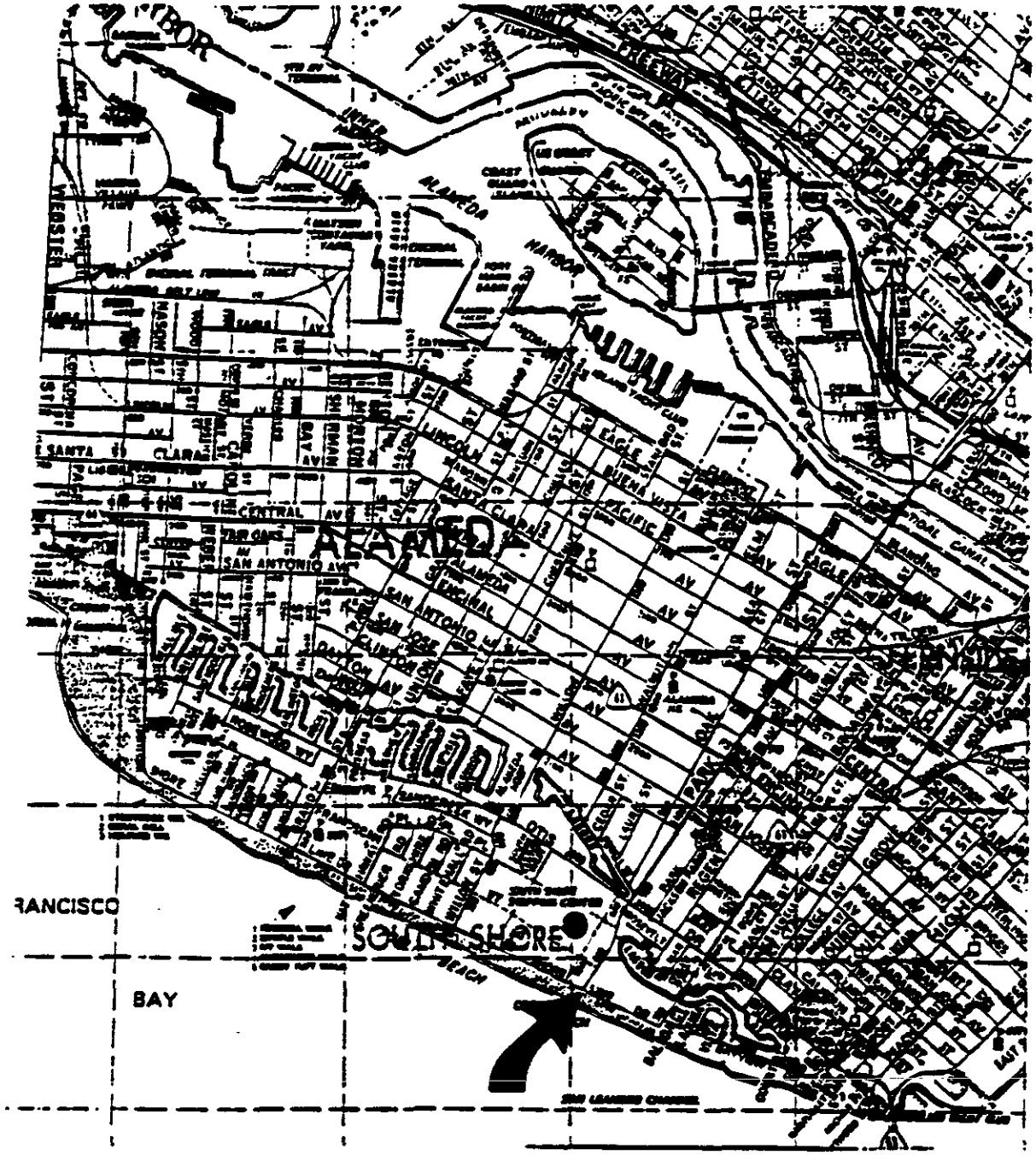
County regulations require that soil samples be taken from below the sumps when they are removed. If analytical results of the soil samples are low or below detection limits for suspect contaminants, the sumps can probably be disposed of in a class III

landfill. If the soil is contaminated with some of the chemical constituents recognized in the sumps, the sumps themselves may still be hazardous even after steam cleaning. In this case, a class I or class II disposal site may be warranted.

Clayton has contacted Mr. Don Flaner, of Douglas Construction, and is coordinating the sump removal with them.

This report prepared by: _____
Laurene Compton
Geologist

This report reviewed by: _____
Alan D. Gibbs, R.G.
Supervisor, Geology Group



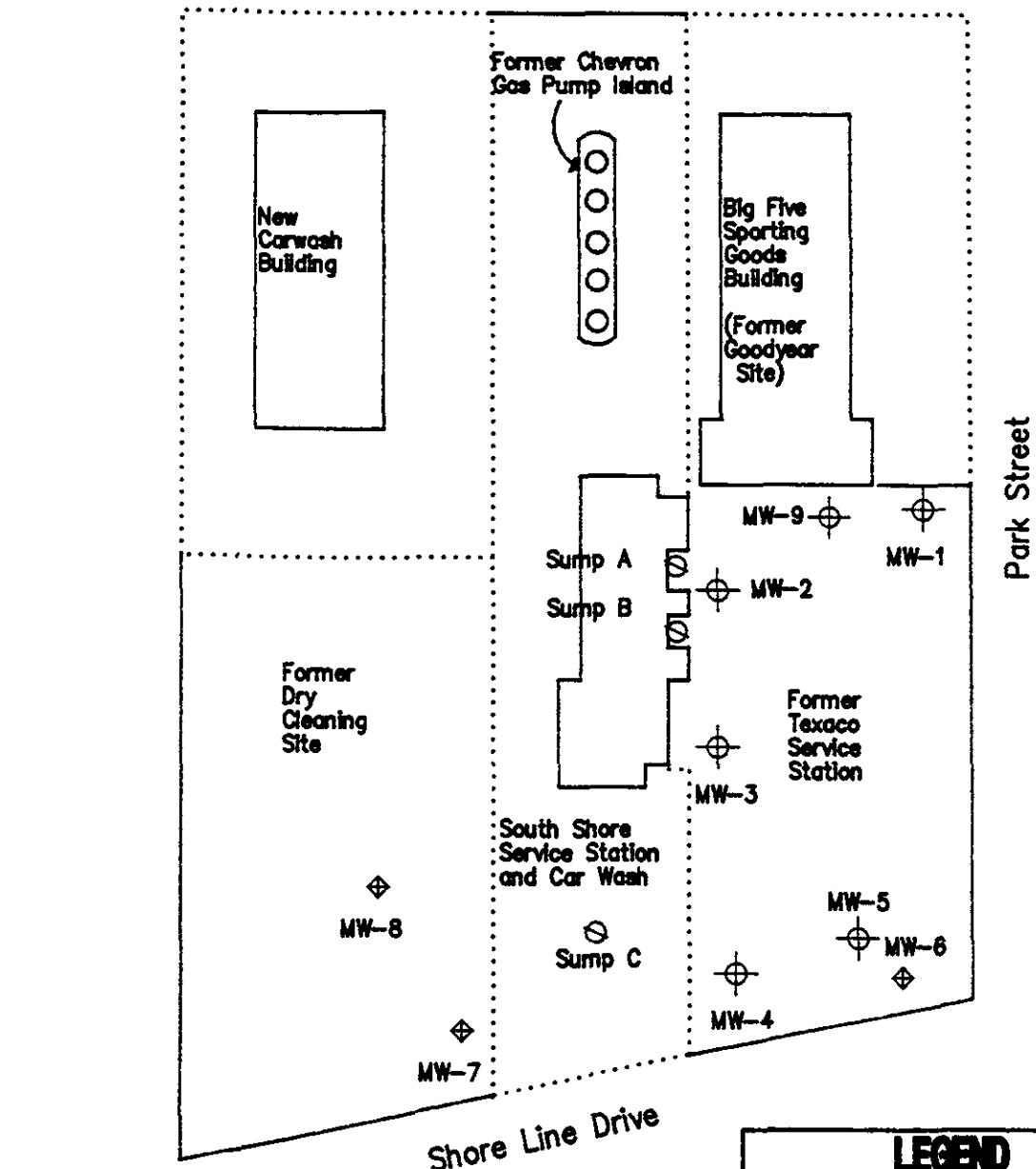
Site Location Map
Harsch Investment Corporation
Park Street and Shore Line Drive
Alameda, California

Clayton Project No. 29196.00

Figure
1

29196-01-17

Clayton
ENVIRONMENTAL
CONSULTANTS



Diagrammatic Site Vicinity Map
Harsch Investment Corporation
Texaco Service Station
Park Street and Shore Line Drive
Alameda, California
Clayton Project No. 29196.00

Figure 2

29196-01-17

Clayton ENVIRONMENTAL CONSULTANTS

TABLE 1

Analytical Results of Sludge and Liquid
Collected from Southshore Carwash Sumps
on August 23, 1990
for
Harsch Investment Corporation

Constituent	SUMP "A" Sludge	SUMP "B" Sludge	SUMP "A" Liquid	SUMP "B" Liquid
EPA Method 8010 for Purgeable Halocarbons:				
Chloroform	<0.05 ppm	<0.05 ppm	1.8 ppb	2.1 ppb
METALS:				
Cadmium	6.5 ppm	3.9 ppm	<0.005 ppm	0.006 ppm
Chromium	48 ppm	42 ppm	<0.05 ppm	<0.05 ppm
Lead	210 ppm	200 ppm	<0.05 ppm	0.08 ppm
Zinc	550 ppm	450 ppm	<0.05 ppm	0.24 ppm
EPA Method 8015/3510 for Petroleum Hydrocarbons:				
Diesel	<400 ppm	<400 ppm	110 ppb (1)	340 ppb (1)
EPA Method 418.1 for Total Recoverable Hydrocarbons:				
Oil and Grease	34,000 ppm	12,000 ppm	10 ppm	40 ppm

This table reports only detected compounds. All other constituents for which the laboratory conducted analyses were below detectable limits

ppm parts per million (approximately equal to milligrams per kilogram and milligrams per liter)
ppb parts per billion (approximately equal to micrograms per liter)

(1) Unidentified hydrocarbons present in the diesel range were quantified as diesel

APPENDIX A

LABORATORY ANALYTICAL RESULTS

Western Operations

1252 Quarry Lane
Pleasanton, CA 94566
(415) 426-2600
Fax (415) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

August 28, 1990

Mr. Alan Gibbs
CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
1252 Quarry Lane
Pleasanton, CA 94566

Client Ref. No. 30493.00
Work Order No. 9008187
Lab Client Code INT_EEP

Dear Mr. Gibbs:

Attached is our analytical laboratory report for the samples received on August 23, 1990. Verbal results were reported to you on August 27, 1990. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Maryann Gambino, Client Services Supervisor, at (415) 426-2657.

Sincerely,

Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

EPA METHOD 8010
PURGEABLE HALOCARBONS

Sample I.D.: SA-CLHCS
Sample Received: 08/23/90
Sample Analyzed: 08/24/90
Sample Matrix: LIQUID

Client: HARSCH INVESTMENTS
Client Ref. No.: 30493.00
Lab Client Code: INT_EEP
Lab No.: 9008187-01E

Compound	CAS #	Concentration ug/L	Limit of Detectio ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-Dichloroethene	75-35-4	ND	0.2
1,1-Dichloroethane	75-35-3	ND	0.4
Trans-1,2-Dichloroethene	156-60-5	ND	0.4
Cis-1,2-Dichloroethene	156-59-2	ND	0.4
1,2-Dichloroethene (total)	540-59-0	ND	0.4
Chloroform	67-66-3	1.8	0.5
1,2-Dichloroethane	107-06-2	ND	0.3
1,1,1-Trichloroethane	71-55-6	ND	0.5
Carbon tetrachloride	56-23-5	ND	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-Dichloropropane	78-87-5	ND	0.5
Cis-1,3-Dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	ND	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-Trichloroethane	79-00-5	ND	0.6
Trans-1,3-Dichloropropene	10061-02-6	ND	0.6
2-Chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-Dichlorobenzene	541-73-7	ND	2
1,2-Dichlorobenzene	95-50-1	ND	4
1,4-Dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	ND	0.4
Freon 113	76-13-1	ND	0.6

ND = Not detected at or above limit of detection

EPA METHOD 8010
PURGEABLE HALOCARBONS

Sample I.D.: SB-CLHCS
Sample Received: 08/23/90
Sample Analyzed: 08/24/90
Sample Matrix: LIQUID

Client: HARSCH INVESTMENTS
Client Ref. No.: 30493.00
Lab Client Code: INT_EEP
Lab No.: 9008187-04E

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-Dichloroethene	75-35-4	ND	0.2
1,1-Dichloroethane	75-35-3	ND	0.4
Trans-1,2-Dichloroethene	156-60-5	ND	0.4
Cis-1,2-Dichloroethene	156-59-2	ND	0.4
1,2-Dichloroethene (total)	540-59-0	ND	0.4
Chloroform	67-66-3	2.1	0.5
1,2-Dichloroethane	107-06-2	ND	0.3
1,1,1-Trichloroethane	71-55-6	ND	0.5
Carbon tetrachloride	56-23-5	ND	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-Dichloropropane	78-87-5	ND	0.5
Cis-1,3-Dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	ND	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-Trichloroethane	79-00-5	ND	0.6
Trans-1,3-Dichloropropene	10061-02-6	ND	0.6
2-Chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-Dichlorobenzene	541-73-7	ND	2
1,2-Dichlorobenzene	95-50-1	ND	4
1,4-Dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	ND	0.4
Freon 113	76-13-1	ND	0.6

ND = Not detected at or above limit of detection

EPA METHOD 8010
PURGEABLE HALOCARBONS

Sample I.D.: METHOD BLANK
Sample Received: 08/23/90
Sample Analyzed: 08/24/90
Sample Matrix: LIQUID

Client: HARSCH INVESTMENTS
Client Ref. No.: 30493.00
Lab Client Code: INT_EEP
Lab No.: 9008187-09A

Compound	CAS #	Concentration ug/L	Limit of Detecti ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-Dichloroethene	75-35-4	ND	0.2
1,1-Dichloroethane	75-35-3	ND	0.4
Trans-1,2-Dichloroethene	156-60-5	ND	0.4
Cis-1,2-Dichloroethene	156-59-2	ND	0.4
1,2-Dichloroethene (total)	540-59-0	ND	0.4
Chloroform	67-66-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.3
1,1,1-Trichloroethane	71-55-6	ND	0.5
Carbon tetrachloride	56-23-5	ND	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-Dichloropropane	78-87-5	ND	0.5
Cis-1,3-Dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	ND	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-Trichloroethane	79-00-5	ND	0.6
Trans-1,3-Dichloropropene	10061-02-6	ND	0.6
2-Chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-Dichlorobenzene	541-73-7	ND	2
1,2-Dichlorobenzene	95-50-1	ND	4
1,4-Dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	ND	0.4
Freon 113	76-13-1	ND	0.6

ND = Not detected at or above limit of detection

EPA METHOD 8010
PURGEABLE HALOCARBONS

Sample I.D.: SA-VS
Client: HARSCH INVESTMENTS

Sample Received: 08/23/90
Client Ref. No.: 30493.00

Sample Analyzed: 08/24/90
Lab Client Code: INT_EEP

Sample Matrix: SOIL
Lab No.: 9008187-03A

Compound	CAS #	Concentration mg/kg	Limit of Detect mg/kg
Chloromethane	74-87-3	ND	0.06
Bromomethane	74-83-9	ND	0.07
Vinyl chloride	75-01-4	ND	0.05
Chloroethane	75-00-3	ND	0.05
Methylene chloride	75-09-2	ND	0.2
1,1-Dichloroethene	75-35-4	ND	0.02
1,1-Dichloroethane	75-35-3	ND	0.04
Trans-1,2-Dichloroethene	156-60-5	ND	0.04
Cis-1,2-Dichloroethene	156-59-2	ND	0.04
1,2-Dichloroethene (total)	540-59-0	ND	0.04
Chloroform	67-66-3	ND	0.05
1,2-Dichloroethane	107-06-2	ND	0.03
1,1,1-Trichloroethane	71-55-6	ND	0.05
Carbon tetrachloride	56-23-5	ND	0.06
Bromodichloromethane	75-27-4	ND	0.07
1,2-Dichloropropane	78-87-5	ND	0.05
Cis-1,3-Dichloropropene	10061-01-5	ND	0.05
Trichloroethene	79-01-6	ND	0.03
Dibromochloromethane	124-48-1	ND	0.06
1,1,2-Trichloroethane	79-00-5	ND	0.06
Trans-1,3-Dichloropropene	10061-02-6	ND	0.06
2-Chloroethylvinylether	100-75-8	ND	0.1
Bromoform	75-25-2	ND	0.07
Tetrachloroethene	127-18-4	ND	0.05
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.05
Chlorobenzene	108-90-7	ND	0.07
1,3-Dichlorobenzene	541-73-7	ND	0.2
1,2-Dichlorobenzene	95-50-1	ND	0.4
1,4-Dichlorobenzene	106-46-7	ND	0.4
Dichlorodifluoromethane	75-71-8	ND	0.1
Trichlorofluoromethane	75-69-4	ND	0.04
Freon 113	76-13-1	ND	0.06

ND = Not detected at or above limit of detection

EPA METHOD 8010
PURGEABLE HALOCARBONS

Sample I.D.: SB-VS
Client: HARSCH INVESTMENTS
Sample Received: 08/23/90
Client Ref. No.: 30493.00
Sample Analyzed: 08/24/90
Lab Client Code: INT_EEP
Sample Matrix: SOIL
Lab No.: 9008187-06A

Compound	CAS #	Concentration mg/kg	Limit of Detecti mg/kg
Chloromethane	74-87-3	ND	0.06
Bromomethane	74-83-9	ND	0.07
Vinyl chloride	75-01-4	ND	0.05
Chloroethane	75-00-3	ND	0.05
Methylene chloride	75-09-2	ND	0.2
1,1-Dichloroethene	75-35-4	ND	0.02
1,1-Dichloroethane	75-35-3	ND	0.04
Trans-1,2-Dichloroethene	156-60-5	ND	0.04
Cis-1,2-Dichloroethene	156-59-2	ND	0.04
1,2-Dichloroethene (total)	540-59-0	ND	0.04
Chloroform	67-66-3	ND	0.05
1,2-Dichloroethane	107-06-2	ND	0.03
1,1,1-Trichloroethane	71-55-6	ND	0.05
Carbon tetrachloride	56-23-5	ND	0.06
Bromodichloromethane	75-27-4	ND	0.07
1,2-Dichloropropane	78-87-5	ND	0.05
Cis-1,3-Dichloropropene	10061-01-5	ND	0.05
Trichloroethene	79-01-6	ND	0.03
Dibromochloromethane	124-48-1	ND	0.06
1,1,2-Trichloroethane	79-00-5	ND	0.06
Trans-1,3-Dichloropropene	10061-02-6	ND	0.06
2-Chloroethylvinylether	100-75-8	ND	0.1
Bromoform	75-25-2	ND	0.07
Tetrachloroethene	127-18-4	ND	0.05
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.05
Chlorobenzene	108-90-7	ND	0.07
1,3-Dichlorobenzene	541-73-7	ND	0.2
1,2-Dichlorobenzene	95-50-1	ND	0.4
1,4-Dichlorobenzene	106-46-7	ND	0.4
Dichlorodifluoromethane	75-71-8	ND	0.1
Trichlorofluoromethane	75-69-4	ND	0.04
Freon 113	76-13-1	ND	0.06

ND = Not detected at or above limit of detection

EPA METHOD 8010
PURGEABLE HALOCARBONS

Sample I.D.: METHOD BLANK
Client: HARSCH INVESTMENTS

Sample Received: 08/23/90
Client Ref. No.: 30493.00

Sample Analyzed: 08/24/90
Lab Client Code: INT_EEP

Sample Matrix: SOIL
Lab No.: 9008187-09B

Compound	CAS #	Concentration mg/kg	Limit of Detecti mg/kg
Chloromethane	74-87-3	ND	0.06
Bromomethane	74-83-9	ND	0.07
Vinyl chloride	75-01-4	ND	0.05
Chloroethane	75-00-3	ND	0.05
Methylene chloride	75-09-2	ND	0.2
1,1-Dichloroethene	75-35-4	ND	0.02
1,1-Dichloroethane	75-35-3	ND	0.04
Trans-1,2-Dichloroethene	156-60-5	ND	0.04
Cis-1,2-Dichloroethene	156-59-2	ND	0.04
1,2-Dichloroethene (total)	540-59-0	ND	0.04
Chloroform	67-66-3	ND	0.05
1,2-Dichloroethane	107-06-2	ND	0.03
1,1,1-Trichloroethane	71-55-6	ND	0.05
Carbon tetrachloride	56-23-5	ND	0.06
Bromodichloromethane	75-27-4	ND	0.07
1,2-Dichloropropane	78-87-5	ND	0.05
Cis-1,3-Dichloropropene	10061-01-5	ND	0.05
Trichloroethene	79-01-6	ND	0.03
Dibromochloromethane	124-48-1	ND	0.06
1,1,2-Trichloroethane	79-00-5	ND	0.06
Trans-1,3-Dichloropropene	10061-02-6	ND	0.06
2-Chloroethylvinylether	100-75-8	ND	0.1
Bromoform	75-25-2	ND	0.07
Tetrachloroethene	127-18-4	ND	0.05
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.05
Chlorobenzene	108-90-7	ND	0.07
1,3-Dichlorobenzene	541-73-7	ND	0.2
1,2-Dichlorobenzene	95-50-1	ND	0.4
1,4-Dichlorobenzene	106-46-7	ND	0.4
Dichlorodifluoromethane	75-71-8	ND	0.1
Trichlorofluoromethane	75-69-4	ND	0.04
Freon 113	76-13-1	ND	0.06

ND = Not detected at or above limit of detection

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See below	Client:	HARSCH INVESTMENTS
Sample Received:	08/23/90	Client Ref. No.:	30493.00
Sample Analyzed:	08/23/90	Lab Client Code:	INT_EEP
Sample Matrix:	Liquid	Lab No.:	9008187

Batch Sub. No.	Sample Identification	Cadmium (mg/L)	Chromium (mg/L)
-01A	SA-MTLS	<0.005	<0.05
-04A	SB-MTLS	0.006	<0.05
-MB	Method Blank	<0.005	<0.05
Limit of Detection:		0.005	0.05
Method Reference:		EPA 6010	EPA 6010

< Less than the indicated limit of detection (LOD)

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See below	Client:	HARSCH INVESTMENTS
Sample Received:	08/23/90	Client Ref. No.:	30493.00
Sample Analyzed:	08/23/90	Lab Client Code:	INT_EEP
Sample Matrix:	Liquid	Lab No.:	9008187

Batch Sub. No.	Sample Identification	Lead (mg/L)	Zinc (mg/L)
-01A	SA-MTLS	<0.05	<0.05
-04A	SB-MTLS	0.08	0.24
-MB	Method Blank	<0.05	<0.05
Limit of Detection:		0.05	0.05
Method Reference:		EPA 6010	EPA 6010

< Less than the indicated limit of detection (LOD)

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See below	Client:	HARSCH INVESTMENTS
Sample Received:	08/23/90	Client Ref. No.:	30493.00
Sample Analyzed:	08/23/90	Lab Client Code:	INT_EEP
Sample Matrix:	Soil	Lab No.:	9008187

Batch Sub. No.	Sample Identification	Cadmium (mg/kg)	Chromium (mg/kg)
-03B	SA-MES	6.5	48
-06B	SB-MES	3.9	42
-MB	Method Blank	<0.1	<1
Limit of Detection:		0.1	1
Method Reference:		EPA 6010	EPA 6010

< Less than the indicated limit of detection (LOD)

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See below	Client:	HARSCH INVESTMENTS
Sample Received:	08/23/90	Client Ref. No.:	30493.00
Sample Analyzed:	08/23/90	Lab Client Code:	INT_EEP
Sample Matrix:	Soil	Lab No.:	9008187

Batch Sub. No.	Sample Identification	Lead (mg/kg)	Zinc (mg/kg)
-03B	SA-MES	210	550
-06B	SB-MES	200	450
-MB	Method Blank	<1	<1
Limit of Detection:		1	1
Method Reference:		EPA 6010	EPA 6010

< Less than the indicated limit of detection (LOD)

EXTRACTABLE PETROLEUM HYDROCARBONS
EPA METHOD 8015/3510

Sample I.D.:	See below	Client:	HARSCH INVESTMENT
Sample Received:	08/23/90	Client Ref. No.:	30493.00
Sample Analyzed:	08/24/90	Lab Client Code:	INT_EEP
Sample Matrix:	Liquid	Lab No.:	9008187

Lab No.	Sample I.D.	Diesel (µg/L)	Limit of Detection (µg/L)
-02B	SA-1 TPHD	110*	50
-05B	SB-1 TPHD	340*	50
-MB	Method Blank	ND	50

ND = Not detected at or above limit of detection

* Unidentified hydrocarbons present in diesel range quantitated as diesel

EXTRACTABLE PETROLEUM HYDROCARBONS
EPA METHOD 8015/3550

Sample I.D.:	See below	Client:	HARSCH INVESTMEN
Sample Received:	08/23/90	Client Ref. No.:	30493.00
Sample Analyzed:	08/24/90	Lab Client Code:	INT_EEP
Sample Matrix:	Soil	Lab No.:	9008187

Lab No.	Sample I.D.	Diesel (mg/kg)	Limit of Detection (mg/kg)
-03B	SA-MES	ND	400
-05B	SB-MES	ND	400
-MB	Method Blank	ND	2

ND = Not detected at or above limit of detection

Note: Detection limits increased due to high level of oil present in sampl

EXTRACTION LABORATORY ANALYSES

Sample I.D.:	See below	Client:	HARSCH INVESTMENTS
Sample Received:	08/23/90	Client Ref. No.:	30493.00
Sample Analyzed:	08/26/90	Lab Client Code:	INT_EEP
Sample Matrix:	Water	Lab No.:	9008187

Batch Sub. No.	Sample Identification	Total Recoverable Petroleum Hydrocarbons (mg/L)
-02A	SA-1 OG	10
-05A	SB-1 OG	40
-MB	Method Blank	<1
Limit of detection:		1
Method Reference:		EPA 418.1

< Less than the indicated limit of detection (LOD)

EXTRACTION LABORATORY ANALYSES

Sample I.D.:	See below	Client:	HARSCH INVESTMENTS
Sample Received:	08/23/90	Client Ref. No.:	30493.00
Sample Analyzed:	08/26/90	Lab Client Code:	INT_EEP
Sample Matrix:	Soil	Lab No.:	9008187

Batch Sub. No.	Sample Identification	Total Recoverable Petroleum Hydrocarbons (mg/kg)
-03B	SA-MES	34,000
-06B	SB-MES	12,000
-MB	Method Blank	<10
Limit of detection:		10
Method Reference:		EPA 418.1 (Modified)

< Less than the indicated limit of detection (LOD)

Clayton

ENVIRONMENTAL CONSULTANTS

A Marsh & McLennan Company

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use Only	
Project No	30493.00
Batch No	9008187
Client No	
Date Received	8-23-90 By TS
Date Logged In	✓ By ✓

Purchase Order No | Client Job No.

Send Invoice To:
Name
Company HARSCH INVESTMENTS | Dept.
Address
City, State, Zip

Report Results To:
Name M. Ellison or Alan Gibbs | Title Geologists
Company | Dept.
Mailing Address
City, State, Zip
Telephone No. | Telefax No.

Date Results Required: 8/27/90 | Rush Charges Authorized? ~~Yes~~ No

Special Instructions. (method, limit of detection, phone results, rush results, etc.) Chlorinated Hydrocarbons Cancelled per Alan Gibbs 8/23 MJ

* Explanation of Preservative. 20% DISCOUNT — Purgeable HC P=HCl

ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/MEDIA	AIR VOLUME (specify units)	Number of Containers	TTLC-Metals (CAM)	TPH-Diesel	Oil + Grease 418.1	Purgeable Halocarbons	~~Chlorinated Hydrocarbons~~	BTEX/Gas	HOLD GC	HOLD EX			FOR LAB USE ONLY
SA-MTLS	8/22	LIQUID	g WM 500ml	1	X										01 A
SA-TPHD	↓	↓	g 1L WM	1		~~X~~					X				B
SA-OG			g 1l WM	1			~~X~~				X				C
SA-PHCS			g 40ml	1				~~X~~		XP					* D
SA-ClHCS			↓	1				X	~~X~~	~~X~~					* E
SA-BTEXG			↓	1					~~X~~	XP					* F
SA-1OG			g WM 1L	1			X								02 A
SA-1TPHD		↓	g WM 1L	1		X									B
SA-VS		SOL	SM SQ JAR 125ml	1				X	~~X~~						** 03A
SA-MES	↓	↓	Lg SQ JAR 500ml	1	X	X	X								*** B

CHAIN OF CUSTODY (If required)

Relinquished by: M Ellison | Date/Time 8/22 6PM | Received by: | Date/Time
Relinquished by: | Date/Time | Received at lab by: [signature] | Date/Time 8/23/90 900
Method of Shipment

Sample condition upon receipt:
* = Rec'd only 1x 40ml w/a label
** = HEADSPACE
*** = Filled Approx. 1/4 Full - ?Limited Sample Volume.

Authorized by: ______ Date ______
(Client Signature Must Accompany Request)

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

*Purgeable Halocarbons analysis to be taken from unpres. vial.

22345 Roethel Drive, Novi, MI 48050, (313) 344-1770
Raritan Center, 160 Fieldcrest Ave., Edison, NJ 08837, (201) 225-6040
400 Chastain Center Blvd., N.W., Suite 490, Kennesaw, GA 30144, (404) 499-7500
1252 Quarry Lane, Pleasanton, CA 94566, (415) 426-2600

DISTRIBUTION:
WHITE - Clayton Laboratory
YELLOW - Clayton Accounting
PINK - Client Retains

Clayton
ENVIRONMENTAL CONSULTANTS
A Marsh & McLennan Company

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use Only	Page 2 of 3
Project No	30493.00
Batch No	9008187
Client No	
Date Received	8/23/90 By [illegible]
Date Logged In	By [illegible]

Purchase Order No
Client Job No.

SEND INVOICE TO
Name
Company HANSCH INVESTMENTS
Dept.
Address
City, State, Zip

REPORT RESULTS TO
Name M JOHNSON c/o ALAN GIBBS Title GEOLOGIST
Company
Dept.
Mailing Address
City, State, Zip
Telephone No.
Telefax No.

Date Results Required 8/27/90
Rush Charges Authorized? X Yes No

Special Instructions (method, limit of detection, phone results, rush results, etc.)
20% DISCOUNT
Chlorinated Hydrocarbons Cancelled per Alan Gibbs 8/23/90 mj

* Explanation of Preservative. P=HCl

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	ICAP-Pb, Cd, Cr, Zn	TPH-Diesel	Oil + Grease 418.1	Purgeable Halocarbons	Chlorinated Hydrocarbons	BTEX/Gas (M)	Hold GC	Hold EX			FOR LAB USE ONLY
SB-MTLS	8/22	LIQUID	g. WM 500ml	1	X										
SB-TPHD	↓	↓	g WM 1L	1		~~X~~ mj									04 A
SB-OG			↓	1			~~X~~				~~X~~ mj				B
SB-PHCS			g 40ml	1							X				C
SB-CLHCS				1				~~X~~		XP					* D
SB-BTEX/G			↓	~~2~~ 1				X	~~X~~	~~X~~					* E
SB-1OG				~~2~~ 1					~~X~~ mj	XP					* F
SB-1TPHD			g 1l NM	1			X								05 A
SB-VS		↓	↓	1		X									↓ B
SB-MES		SOIL	3in SQ. JAR 125ml	1				X	~~X~~						** 06 A
	↓	↓	g SQ. JAR 500ml	1	X	X	X mj								*** ↓ B

CHAIN OF CUSTODY (if required)
Relinquished by M Johnson Date/Time 8/22 6AM
Relinquished by Date/Time
Method of Shipment
Received by: Date/Time
Received at lab by [signature] Date/Time 8/23/90 9:00

Sample condition upon receipt:
*-REC'D ONLY 1x40ml W/LABEL - AIR BUBBLE IN BOTH VIALS
**- HEADSPACE
***- FILLED APPROX. 1/2 FULL - LIMITED SAMPLE VOLUME
*-SEE PG 1 COMMENT

Authorized by ______________________ Date ______
(Client Signature Must Accompany Request)

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

22345 Roethel Drive, Novi, MI 48050, (313) 344-1770
Raritan Center, 160 Fieldcrest Ave., Edison, NJ 08837, (201) 225-6040
400 Chastain Center Blvd., N.W., Suite 490, Kennesaw, GA 30144, (404) 499-7500
1252 Quarry Lane, Pleasanton, CA 94566, (415) 426-2600

DISTRIBUTION:
WHITE - Clayton Laboratory
YELLOW - Clayton Accounting
PINK - Client Retains

Clayton
ENVIRONMENTAL CONSULTANTS
A Marsh & McLennan Company

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use Only	Page 3 of 3
Project No	
Batch No	9008187
Client No	
Date Received	8/23/90 By
Date Logged In	By

Purchase Order No | Client Job No.

SEND INVOICE TO: Name | Company | Dept. | Address | City, State, Zip

REPORT RESULTS TO: Name | Title | Company HARSCH INVESTMENTS | Dept. | Mailing Address | City, State, Zip | Telephone No. | Telefax No.

Date Results Required: | Rush Charges Authorized? ☐ Yes ☐ No

Special Instructions: (method, limit of detection, phone results, rush results, etc.)

* Explanation of Preservative: P=HCl

ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request, Enter a 'P' if Preservative added*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	HOLD										FOR LAB USE ONLY
TRIP BLANK 081490		WATER	340 ml	2	X										07 A,B
SA-PHCS / SB-PHCS *	8/22/90	LIQUID	↓	1	X P										08 A
SA-CLHCS / ↓ - CLHCS *	↓	↓	↓	2	X										↓ B,C
SA-BTEXG / ↓ - BTEXG *	↓	↓	↓	2	X P										↓ D,E

CHAIN OF CUSTODY (If required)
Relinquished by: | Date/Time
Relinquished by: | Date/Time
Method of Shipment

Received by:
Received at lab by: | Date Time
Sample condition upon receipt: | Date Time 8/23/90 9.00
* - NO LABELS

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

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

22345 Roethel Drive, Novi, MI 48050, (313) 344-1770
Raritan Center, 160 Fieldcrest Ave., Edison, NJ 08837, (201) 225-6040
400 Chastain Center Blvd., N.W., Suite 490, Kennesaw, GA 30144, (404) 499-7500
1252 Quarry Lane, Pleasanton, CA 94566, (415) 426-2600

DISTRIBUTION:
WHITE - Clayton Laboratory
YELLOW - Clayton Accounting
PINK - Client Retains

Western Operations

1252 Quarry Lane
Pleasanton, CA 94566
(415) 426-2600
Fax (415) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

SITE SAFETY PLAN

FOR

REMOVAL OF TWO SUMPS AT SOUTHSHORE CARWASH

PERFORMED FOR

HARSCH INVESTMENT CORPORATION

CLAYTON PROJECT NO: 30903.00

I. SITE DESCRIPTION

Dates to be worked:	October 1990
Location:	North corner of Shore Line Drive and Park Street, Alameda, CA (See attached site location map)
Activities:	Removal of two concrete sumps and sampling soils underneath
Possible Hazardous Substances:	• diesel fuel • waste oil • metals
Physical Hazards:	• operations around backhoe including overhead hazards, moving machinery, noise • potential explosion and fire hazards due to diesel fuel and operations of backhoe • Confined space in excavation

Clayton Environmental Consultants Inc. • A Marsh & McLennan Company • Novi MI • Edison NJ • Wayne PA • Kennesaw GA
Pleasanton CA • Cypress CA • Windsor Ontario • Toronto Ontario • Birmingham U.K. • Doncon U.K. • Southampton U.K.

II. SITE ORGANIZATION AND COORDINATION

Contacts for the site include the following:

Consultant:	Clayton Environmental Consultants
Contacts:	Ms. Laurene Compton, Field Project Leader Mr. Alan D. Gibbs, Supervisor, Geology Group P.O. Box 9019 Pleasanton, CA 94566 (415) 426-2676
Owner:	Harsch Investment Corporation
Contact:	Mr. Joseph Munyer, Manager, Shopping Centers 235 W. MacArthur Boulevard Oakland CA 94611 (415) 658-1400
Contractor:	Douglas Construction
Contact:	Mr. Don Flaner 1161 Alpine Road Walnut Creek, CA 94596 (415) 932-3559
Subcontractor:	Tom Daniels Excavating Inc. P.O. Box 335 Danville, CA 94526 (415) 820-3558
Occupant:	Southshore Carwash
Business Owner:	Mr. Murray Stevens (415) 523-7866
Site safety officer:	Laurene Compton Clayton Environmental Consultants
Alameda County Representatives:	Alameda County Health Agency
Contact:	Cynthia Chapman 80 Swan Way, Suite 200 Oakland, CA 94621 (415) 271-4320

III. Hazard Evaluation

TABLE 1

HAZARD IDENTIFICATION AND PROCEDURES FOR HAZARD REDUCTION

Potential Hazards	Procedures for Hazard Reduction
Volatilization of organic vapors during operation can pose a potential hazard via the inhalation of vapors	The ambient air within the work area and in all confined spaces must be monitored prior to entry with a photo-ionization detector (PID). Workers should stand upwind of the source of contamination whenever possible.
Subsurface vaults are confined spaces that may lack adequate ventilation and trap organic and/or organic vapors.	Personnel will not be allowed to enter confined spaces.
Noise	Approved ear plugs/muffs shall be made available for noisy work operations
Contaminated surfaces	Contact with contaminated surfaces, or surfaces suspected to be contaminated should be avoided.
Physical hazards	Hard hats shall be worn at all times Safety glasses will be worn when necessary
Skin and eye contact with the separate-phase petroleum and hydrocontaminated groundwater and/or soil may occur during sump removal	Use of approved gloves and goggles will be required when potential skin and eye contact with contaminated substances is apparent.
Ingestion of petro-chemicals can occur by accidental swallowing of contaminated soils, liquids and/or transfer of contaminated particles onto ingestible substances	Eating, smoking, drinking and/or application of cosmetics is prohibited onsite. This minimizes the possibility of exposure to the petro-chemicals potentially encountered onsite via ingestion.

TABLE 2

POTENTIAL HAZARDOUS SUBSTANCES ONSITE

The following substances are known or suspected to be onsite.
The primary hazards of each are identified below.

Hazardous Substance	Expected Concentration	Health Effects
Benzene	<50 ppm	Carcinogen, Abdominal pain, eye irritation, headache, nausea, respiratory irritation
Ethylbenzene	<50 ppm	Coma, dermatitis, eye irritation, headache
Toluene	<50 ppm	dermatitis, dilated pupils, headache
Xylene	<50 ppm	abdominal pain, diarrhea, eye irritation, nausea, staggering gait, throat irritation
Gasoline	<100 ppm	dizziness, eye irritation, headache nausea, dermatitis
Waste oil	<34,000 ppm	dizziness, eye irritation, nausea, dermatitis
Diesel fuel	<400 ppm	eye irritation, dermatitis, nausea
Lead	<200 ppm	lassitude, insomnia, anorexia, constipation,anemia
Cadmium	<7 ppm	cough, tight chest, headache, chills
Chromium	<50 ppm	Carcinogen, histologic fibrosis of lungs
Zinc	<550 ppm	eye irritation, dermatitis

ppm parts per million

IV. Personal Protective Equipment

R = required A = as needed

Hard hat	R
Safety boots	R
Hearing Protection	A
Tyvek coveralls	A
Safety eyewear	R
Respirator	A
Filter type, organic	
Gloves	A
First Aid Kit	R
Two Fire Extinguishers	R

Level of protective equipment: Level D
Level C protective equipment will be available onsite

Monitoring equipment onsite: Soil samples and the ambient air will be monitored with and organic vapor analyzer (PID)

Respirators with organic vapor cartridges shall be worn by all personnel if photoionization detector readings exceed 100 ppm.

Tyvek suits and appropriate gloves shall be worn if potential for dermal exposure exists while performing job tasks.

Decontamination Procedures: Steam cleaner onsite, wash with TSP and double rinse, final rinse with deionized water

V. Emergency Procedures

Hospital

Alameda Hospital 2070 Clinton Ave., Alameda (415) 523-4357

Fire Department

City of Alameda Fire Dept., 1300 Park Street, Alameda (415) 748-4601
Emergency Medical Division, 300 Park St., Alameda (415) 748-4604

Police Department

City of Alameda Police Dept., 1555 Oak Street, Alameda (415) 522-1220

See attached map for locations of emergency facilities

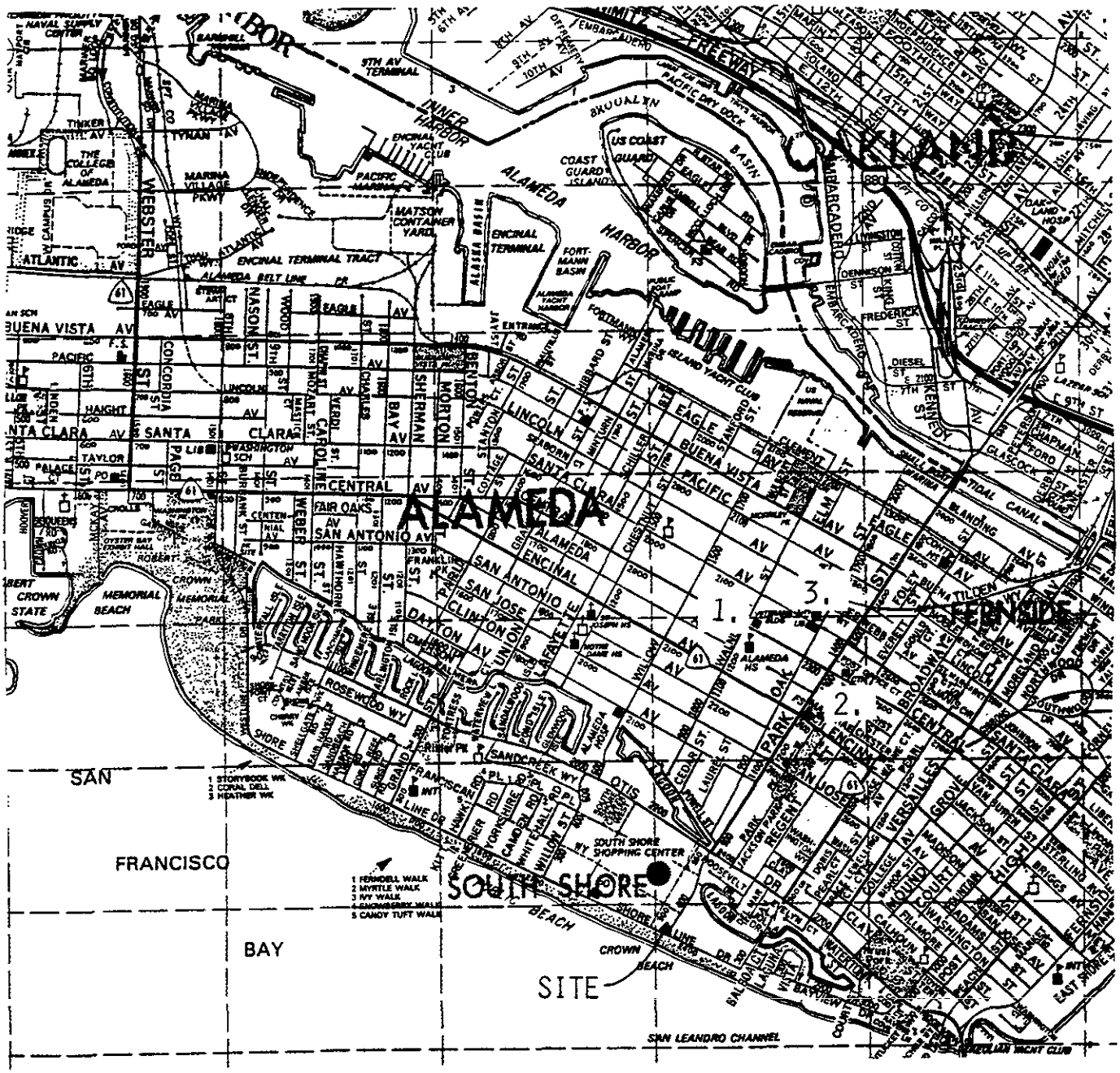
Other agency telephone numbers

National Response Center	(800) 424-8802
California Department of Health Services	(415) 540-2043
Regional Water Quality Management Board	(415) 464-1255
Bay Area Air Quality Management Board	(415) 771-6000
Environmental Protection Agency Region 9	(415) 974-8076
Chemtrec	(800) 424-9300
Department of Transportation	(415) 876-9085

Emergency Plans and Procedures: (1) Stabilize victim and call 911 (if applicable). Notify the receiving hospital of the nature of physical injury or chemical over exposure
(2) If the injury is minor, proceed to administer first aid
(3) Notify Clayton Environmental, Alan Gibbs
(4) Notify Harsch Investment Company, Joe Munyer

This report prepared by: _____
Laurene Compton
Geologist

This report reviewed by: _____
Alan D. Gibbs, R.G.
Supervisor, Geology Group



1. ALAMEDA HOSPITAL, 2070 CLINTON AVE., ALAMEDA
2. FIRE DEPARTMENT, 1300 PARK STREET, ALAMEDA
3. POLICE DEPARTMENT, 1555 OAK STREET, ALAMEDA

Clayton Environmental Consultants, Inc.	Figure
Site and Emergency Facilities Location Map Harsch Investment Corporation North corner of Shore Line Drive and Park Street Alameda, CA	1