



June 15, 1990

09382,040.02

California Regional Water Quality Control Board
San Francisco Bay Region
1800 Harrison Street, Suite 700
Oakland, California 94612

Attention: Cecil Felix

Gentlemen:

**Report of System Monitoring: April through June 1990
Dewatering Effluent Treatment System
Chinatown Redevelopment Project Area
Oakland, California**

This letter transmits Harding Lawson Associates' (HLA) *Report of System Monitoring, May 1990, Dewatering Effluent Treatment System, Pacific Renaissance Plaza, Oakland, California*, describing the operations and monitoring of the groundwater treatment system located at the Pacific Renaissance Plaza (PRP) site in the Chinatown Redevelopment Project Area, Oakland, California.

We have received the letter dated June 8, 1990 from Steve R. Ritchie of the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) to David Leland of HLA regarding proposed modifications to the treatment system and reporting schedule. The change from monthly to quarterly reporting frequency will be initiated immediately.

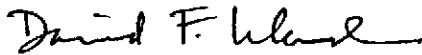
Recent discussions with the PRP developer and general contractor indicate that dewatering will not begin until mid to late July 1990. Because the system will not be in operation in June, there will be no June operations monitoring data to report. This letter in combination with the April and May 1990 monthly reports will serve as the quarterly report for April through June 1990.

June 15, 1990
09382,040.02
California RWQCB, San Francisco Bay Region
Mr. Cecil Felix
Page 2

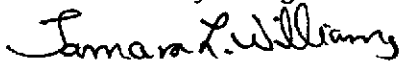
If you have any questions regarding treatment system activities, please call David Leland at 899-7352.

Very truly yours,

HARDING LAWSON ASSOCIATES



David F. Leland
Associate Hydrologist



Tamara L. Williams
Principal Geologist

Attachments: *Report of System Monitoring, May 1990, Dewatering Effluent Treatment System, Pacific Renaissance Plaza, Oakland, California*

DFL/kic/df1050#2

A Report Prepared for

City of Oakland Redevelopment Agency
One City Hall Plaza
Oakland, California 94612

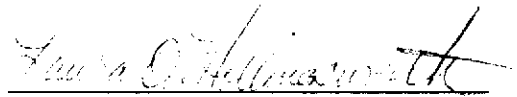
**REPORT OF SYSTEM MONITORING
MAY 1990
DEWATERING EFFLUENT TREATMENT SYSTEM
CHINATOWN REDEVELOPMENT PROJECT AREA
OAKLAND, CALIFORNIA**

HLA Job No. 09382,040.02

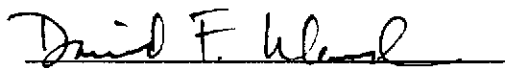
Submitted to:

California Regional Water Quality Control Board
San Francisco Bay Region
1800 Harrison Street, Suite 700
Oakland, California 94612

by



Laura O. Hollingsworth
Staff Engineer



David F. Leland
Associate Hydrologist

Harding Lawson Associates
7655 Redwood Boulevard
P.O. Box 578
Novato, California 94948
415/892-0821

June 15, 1990

TABLE OF CONTENTS

LIST OF TABLES.....	iii
I INTRODUCTION.....	1
II TREATMENT SYSTEM OPERATION.....	2
III TREATMENT SYSTEM MONITORING.....	4
IV RESULTS.....	5

TABLES

Appendix LABORATORY ANALYTICAL RESULTS FOR TREATMENT
 SYSTEM SAMPLES

DISTRIBUTION

LIST OF TABLES

Table 1 Treatment System Water Analysis: Influent Samples
Table 2 Treatment System Water Analysis: Intermediate Samples
Table 3 Treatment System Water Analysis: Effluent Samples
Table 4 Treatment System Water Analysis: Blank Samples

III TREATMENT SYSTEM MONITORING

May treatment system samples were collected on May 18 from the influent, intermediate, and effluent sampling ports. A duplicate effluent sample was also collected and submitted for analysis. In addition, a field blank was submitted with the samples collected.

All samples were analyzed by Pace Laboratories, Novato, California, a California-certified laboratory. All samples were analyzed for benzene, toluene, ethylbenzene, and xylenes by EPA Test Method 8020, for halogenated organics by EPA Test Method 8010, and for TPH as gasoline by EPA Test Method 8015. In addition, influent and effluent samples were analyzed for EDB by EPA Test Method 504. Separate influent and effluent samples were analyzed for dissolved oxygen by EPA Test Method 360.2 and for residual chlorine by Standard Method 408E.

Results of analyses of samples collected January 31, 1990 through May 18, 1990 are summarized in Tables 1 through 4. Analytical results for samples collected May 18 are discussed in this report.

TABLE 1. TREATMENT SYSTEM WATER ANALYSIS: INFLUENT SAMPLES

PAGE 1

HLA SAMPLE ID #	90013109	90094001	90152001	90200008
DATE	01/31/90	03/01/90	04/11/90	05/18/90
TEST METHOD/ COMPOUNDS				
EPA 8020				
Benzene	7	3.5	0.5	0.8
Toluene	4.1	0.9	0.8	0.6
Ethylbenzene	0.6	ND < 0.2	ND < 0.2	ND < 0.2
Xylenes	20	13	2	19
All other 8020 compounds	NT	NT	NT	NT
EPA 8015				
TPH (Gasoline)	70	ND < 50	54	110
EPA 8010				
1,1-dichloroethene	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Methylene chloride	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
1,1-dichloroethane	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Chloroform	2.7	1.2	ND < 0.5	1.7
1,1,1-trichloroethane	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
1,2-dichloroethane	6	6.2	4.9	6.0
Trichloroethene	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
1,2-dichloropropane	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Bromodichloromethane	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Cis-1,3-dichloropropene	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Tetrachloroethene	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Chlorobenzene	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Bromoform	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
1,1,2,2-tetrachloroethane	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Dibromochloromethane	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
All other 8010 compounds	ND	ND	ND	ND
EPA 504				
Ethylene dibromide	.9 (*)	1.5	1.1	1.8
Standard Method 40BE				
Residual chlorine (mg/l)	ND < 0.05	ND < 0.05	0.1	ND < 0.05 (1)
EPA 360.2				
Dissolved oxygen (mg/l)	9.4	1.8	6.8	0.2 (2)

ND - Not detected at stated detection limit.

NT - Not Tested.

All results reported in parts per billion (ppb) except where indicated.

(*) - Analysis conducted in excess of EPA holding times.

(1) - Result from sample #90200017 collected on 5/19/90.

(2) - Result from sample #90200006 collected on 5/18/90.

TABLE 3. TREATMENT SYSTEM WATER ANALYSIS: EFFLUENT SAMPLES

HLA SAMPLE ID #	90013111	90013112	90094004	90110001	90152003	90152004	90200010	90200011
DATE	01/31/90	01/31/90	03/01/90	03/14/90	04/11/90	04/11/90	05/18/90	05/18/90
TEST METHOD/COMPOUNDS								
EPA 8020								
Benzene	1.3	ND < 0.2	0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2
Toluene	1.5	ND < 0.2	0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2
Ethylbenzene	ND < 0.2	ND < 0.2	0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2
Xylenes	0.6	ND < 0.6	0.6	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2
All other 8020 compounds	NT	NT	NT	NT	NT	NT	NT	NT
EPA 8015								
TPH (Gasoline)	ND < 50	70	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50
EPA 8010								
Dichlorodifluoromethane	ND < 2.0	NT	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0
1,1-dichloroethene	ND < 0.5	NT	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Methylene chloride	ND < 0.5	NT	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
1,1-dichloroethane	ND < 0.5	NT	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Chloroform	3.9	NT	2.8	ND < 0.5	ND < 0.5	ND < 0.5	0.8	0.7
1,1,1-trichloroethane	ND < 0.5	NT	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
1,2-dichloroethane	5.1	NT	6.3	1.4	0.9	1	1.5	1.6
Trichloroethene	ND < 0.5	NT	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
Tetrachloroethene	ND < 0.5	NT	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
All other 8010 compounds	ND	NT	ND	ND	ND	ND	ND	ND
EPA 504								
Ethylene dibromide	0.4(*)	NT	LT 0.25**	0.2	0.02	0.02	0.04	NT
Standard Method 408E								
Residual chlorine (mg/l)	ND < 0.05	NT	ND < 0.05	NT	NT	NT	ND < 0.05(1)	NT
EPA 360.2								
Dissolved oxygen (mg/l)	7	NT	0.3	NT	3	NT	0.5(2)	NT

 LT - Less than.
 ND - Not detected at stated detection limit.
 NT - Not Tested.
 All results reported in parts per billion (ppb) except where indicated.
 (*) - Analysis conducted in excess of EPA holding times.
 (**) - Sample dilution required for analysis due to matrix components.
 (1) - Result from sample #90200018 collected on 5/19/90.
 (2) - Result from sample #90200007 collected on 5/18/90.

TABLE 4. TREATMENT SYSTEM WATER ANALYSIS: BLANK SAMPLES

HLA SAMPLE ID #	-	90094003	90152005	90200012
DATE	01/31/90	03/01/90	04/11/90	05/18/90
TEST METHOD/COMPOUNDS				
EPA 8020				
Benzene	NT	ND < 0.2	ND < 0.2	ND < 0.2
Toluene	NT	ND < 0.2	ND < 0.2	ND < 0.2
Ethylbenzene	NT	ND < 0.2	ND < 0.2	ND < 0.2
Xylenes	NT	ND < 0.2	ND < 0.2	ND < 0.2
All other 8020 compounds	NT	NT	NT	NT
EPA 8015				
TPH (Gasoline)	NT	ND < 50	ND < 50	ND < 50
EPA 8010				
Dichlorodifluoromethane	NT	ND < 2.0	ND < 2.0	ND < 2.0
1,1-dichloroethene	NT	ND < 0.5	ND < 0.5	ND < 0.5
Methylene chloride	NT	ND < 0.5	ND < 0.5	ND < 0.5
1,1,1-trichloroethane	NT	ND < 0.5	ND < 0.5	ND < 0.5
1,2-dichloroethane	NT	ND < 0.5	ND < 0.5	ND < 0.5
All other 8010 compounds	NT	ND	ND	ND

 ND - Not detected at stated detection limit.

NT - Not Tested.

All results reported in parts per billion (ppb) except where indicated.

Appendix
LABORATORY ANALYTICAL RESULTS FOR
TREATMENT SYSTEM SAMPLES



REPORT OF LABORATORY ANALYSIS

Harding Lawson Associates
 200 Rush Landing Road
 Novato, CA 94945

June 06, 1990
 PACE Project
 Number: 400518511

Attn: Mr. David Leland

PRP Sampling

PACE Sample Number:		754870	754880	754890	
Date Collected:		05/18/90	05/18/90	05/18/90	
Date Received:		05/18/90	05/18/90	05/18/90	
<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>90200006</u>	<u>90200007</u>	<u>90200008</u>

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Oxygen, Dissolved	mg/L	0.1	0.2	0.5	-
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):		-	-	-	-
Total Purgeable Fuels, as Gasoline	mg/L	0.05	-	-	0.11
PURGEABLE AROMATICS (BTXE BY EPA 8020):		-	-	-	-
Benzene	mg/L	0.0002	-	-	0.0008
Ethylbenzene	mg/L	0.0002	-	-	ND
Toluene	mg/L	0.0002	-	-	0.0006
Xylenes, Total	mg/L	0.0002	-	-	0.019

HALOGENATED VOLATILE COMPOUNDS EPA 8010

Dichlorodifluoromethane	ug/L	2.0	-	-	ND
Chloromethane	ug/L	2.0	-	-	ND
Vinyl Chloride	ug/L	2.0	-	-	ND
Bromomethane	ug/L	2.0	-	-	ND
Chloroethane	ug/L	2.0	-	-	ND
Trichlorofluoromethane (Freon 11)	ug/L	2.0	-	-	ND
1,1-Dichloroethene	ug/L	0.5	-	-	ND
Methylene Chloride	ug/L	0.5	-	-	ND
trans-1,2-Dichloroethene	ug/L	0.5	-	-	ND
1,1-Dichloroethane	ug/L	0.5	-	-	ND
Chloroform	ug/L	0.5	-	-	1.7
1,1,1-Trichloroethane (TCA)	ug/L	0.5	-	-	ND
Carbon Tetrachloride	ug/L	0.5	-	-	ND

MDL Method Detection Limit
 ND Not detected at or above the MDL.

REPORT OF LABORATORY ANALYSIS

Mr. David Leland
 Page 2

June 06, 1990
 PACE Project
 Number: 400518511

PRP Sampling

PAGE Sample Number:		754870	754880	754890
Date Collected:		05/18/90	05/18/90	05/18/90
Date Received:		05/18/90	05/18/90	05/18/90
Parameter	Units	MDL	90200006	90200007
			90200008	90200008

ORGANIC ANALYSIS

HALOGENATED VOLATILE COMPOUNDS EPA 8010

1,2-Dichloroethane (EDC)	ug/L	0.5	-	-	6.0
Trichloroethene (TCE)	ug/L	0.5	-	-	ND
1,2-Dichloropropane	ug/L	0.5	-	-	ND
Bromodichloromethane	ug/L	0.5	-	-	ND
2-Chloroethylvinyl ether	ug/L	0.5	-	-	ND
trans-1,3-Dichloropropene	ug/L	0.5	-	-	ND
cis-1,3-Dichloropropene	ug/L	0.5	-	-	ND
1,1,2-Trichloroethane	ug/L	0.5	-	-	ND
Tetrachloroethene	ug/L	0.5	-	-	ND
Dibromochloromethane	ug/L	0.5	-	-	ND
Chlorobenzene	ug/L	0.5	-	-	ND
Bromoform	ug/L	0.5	-	-	ND
1,1,2,2-Tetrachloroethane	ug/L	0.5	-	-	ND
1,3-Dichlorobenzene	ug/L	0.5	-	-	ND
1,4-Dichlorobenzene	ug/L	0.5	-	-	ND
1,2-Dichlorobenzene	ug/L	0.5	-	-	ND
Bromochloromethane (Surrogate Recovery)			-	-	106%
1,4-Dichlorobutane (Surrogate Recovery)			-	-	93%
1,2-DIBROMOETHANE (EDB) EPA METHOD 504					
1,2-Dibromoethane	ug/L	0.02	-	-	1.8
Date Extracted			-	-	05/22/90

MDL Method Detection Limit
 ND Not detected at or above the MDL.

Mr. David Leland
Page 3

June 06, 1990
PACE Project
Number: 400518511

PRP Sampling

PACE Sample Number:	754900	754910	754920
Date Collected:	05/18/90	05/18/90	05/18/90
Date Received:	05/18/90	05/18/90	05/18/90
<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	
		90200009	90200010 90200011

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):

	mg/L	0.05	ND	ND	ND
Total Purgeable Fuels, as Gasoline					

PURGEABLE AROMATICS (BTXE BY EPA 8020):

	mg/L	0.0002	ND	ND	ND
Benzene					
Ethylbenzene		0.0002	ND	ND	ND
Toluene		0.0002	0.0003	ND	ND

Xylenes, Total	mg/L	0.0002	ND	ND	ND

HALOGENATED VOLATILE COMPOUNDS EPA 8010

	ug/L	2.0	ND	ND	ND
Dichlorodifluoromethane					
Chloromethane		2.0	ND	ND	ND
Vinyl Chloride		2.0	ND	ND	ND
Bromomethane		2.0	ND	ND	ND
Chloroethane		2.0	ND	ND	ND
Trichlorofluoromethane (Freon 11)		2.0	ND	ND	ND
1,1-Dichloroethene		0.5	ND	ND	ND
Methylene Chloride		0.5	ND	ND	ND
trans-1,2-Dichloroethene		0.5	ND	ND	ND
1,1-Dichloroethane		0.5	ND	ND	ND
Chloroform		0.5	1.8	0.8	0.7
1,1,1-Trichloroethane (TCA)		0.5	ND	ND	ND
Carbon Tetrachloride		0.5	ND	ND	ND
1,2-Dichloroethane (EDC)		0.5	5.7	1.5	1.6
Trichloroethene (TCE)		0.5	ND	ND	ND
1,2-Dichloropropane		0.5	ND	ND	ND
Bromodichloromethane		0.5	ND	ND	ND
2-Chloroethylvinyl ether		0.5	ND	ND	ND
trans-1,3-Dichloropropene		0.5	ND	ND	ND
cis-1,3-Dichloropropene		0.5	ND	ND	ND

MDL Method Detection Limit
ND Not detected at or above the MDL.

REPORT OF LABORATORY ANALYSIS

Mr. David Leland
 Page 4

June 06, 1990
 PACE Project
 Number: 400518511

PRP Sampling

PACE Sample Number:	754900	754910	754920
Date Collected:	05/18/90	05/18/90	05/18/90
Date Received:	05/18/90	05/18/90	05/18/90
<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>90200009</u>
			<u>90200010</u>
			<u>90200011</u>

ORGANIC ANALYSIS

HALOGENATED VOLATILE COMPOUNDS EPA 8010

1,1,2-Trichloroethane	ug/L	0.5	ND	ND	ND
Tetrachloroethene	ug/L	0.5	ND	ND	ND
Dibromochloromethane	ug/L	0.5	ND	ND	ND
Chlorobenzene	ug/L	0.5	ND	ND	ND
Bromoform	ug/L	0.5	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/L	0.5	ND	ND	ND
1,3-Dichlorobenzene	ug/L	0.5	ND	ND	ND
1,4-Dichlorobenzene	ug/L	0.5	ND	ND	ND
1,2-Dichlorobenzene	ug/L	0.5	ND	ND	ND
Bromochloromethane (Surrogate Recovery)			113%	102%	102%
1,4-Dichlorobutane (Surrogate Recovery)			92%	98%	103%
1,2-DIBROMOETHANE (EDB) EPA METHOD 504					
1,2-Dibromoethane	ug/L	0.02	-	0.04	-
Date Extracted			-	05/22/90	-

MDL Method Detection Limit
 ND Not detected at or above the MDL.

Mr. David Leland
 Page 5

June 06, 1990
 PACE Project
 Number: 400518511

PRP Sampling

PACE Sample Number: 754930
 Date Collected: 05/18/90
 Date Received: 05/18/90
 Parameter Units MDL 90200012

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT): -
 Total Purgeable Fuels, as Gasoline mg/L 0.05 ND
 PURGEABLE AROMATICS (BTXE BY EPA 8020): -
 Benzene mg/L 0.0002 ND
 Ethylbenzene mg/L 0.0002 ND
 Toluene mg/L 0.0002 ND
 Xylenes, Total mg/L 0.0002 ND

HALOGENATED VOLATILE COMPOUNDS EPA 8010

Dichlorodifluoromethane ug/L 2.0 ND
 Chloromethane ug/L 2.0 ND
 Vinyl Chloride ug/L 2.0 ND
 Bromomethane ug/L 2.0 ND
 Chloroethane ug/L 2.0 ND
 Trichlorofluoromethane (Freon 11) ug/L 2.0 ND
 1,1-Dichloroethene ug/L 0.5 ND
 Methylene Chloride ug/L 0.5 ND
 trans-1,2-Dichloroethene ug/L 0.5 ND
 1,1-Dichloroethane ug/L 0.5 ND
 Chloroform ug/L 0.5 ND
 1,1,1-Trichloroethane (TCA) ug/L 0.5 ND
 Carbon Tetrachloride ug/L 0.5 ND
 1,2-Dichloroethane (EDC) ug/L 0.5 ND
 Trichloroethene (TCE) ug/L 0.5 ND
 1,2-Dichloropropane ug/L 0.5 ND
 Bromodichloromethane ug/L 0.5 ND
 2-Chloroethylvinyl ether ug/L 0.5 ND
 trans-1,3-Dichloropropene ug/L 0.5 ND
 cis-1,3-Dichloropropene ug/L 0.5 ND

MDL Method Detection Limit
 ND Not detected at or above the MDL.

Mr. David Leland
 Page 6

June 06, 1990
 PACE Project
 Number: 400518511

PRP Sampling

PACE Sample Number: 754930
 Date Collected: 05/18/90
 Date Received: 05/18/90
 Parameter Units MDL 90200012

ORGANIC ANALYSIS

HALOGENATED VOLATILE COMPOUNDS EPA 8010

1,1,2-Trichloroethane	ug/L	0.5	ND
Tetrachloroethene	ug/L	0.5	ND
Dibromochloromethane	ug/L	0.5	ND
Chlorobenzene	ug/L	0.5	ND
Bromoform	ug/L	0.5	ND
1,1,2,2-Tetrachloroethane	ug/L	0.5	ND
1,3-Dichlorobenzene	ug/L	0.5	ND
1,4-Dichlorobenzene	ug/L	0.5	ND
1,2-Dichlorobenzene	ug/L	0.5	ND
Bromochloromethane (Surrogate Recovery)			101%
1,4-Dichlorobutane (Surrogate Recovery)			100%

MDL Method Detection Limit
 ND Not detected at or above the MDL.

The data contained in this report were obtained using EPA or other approved methodologies. All analyses were performed by me or under my supervision.

Robert P. Chrin

Robert P. Chrin
 Inorganic Chemistry Manager

Ruth J. Siegmund

Ruth J. Siegmund
 Organic Chemistry Manager

May 30, 1990

Mr. David Leland
Harding Lawson Associates
200 Rush Landing Road
Novato, CA 94945


RE: PACE Project No. 400521.501
PRP/Oakland

Dear Mr. Leland:

Enclosed is the report of laboratory analyses for samples received
May 19, 1990.

If you have any questions concerning this report, please feel free
to contact us.

Sincerely,



Stephen F. Nackord
Director, Sampling and Analytical Services

Enclosures



REPORT OF LABORATORY ANALYSIS

Harding Lawson Associates
 200 Rush Landing Road
 Novato, CA 94945

May 30, 1990
 PACE Project
 Number: 400521501

Attn: Mr. David Leland

PRP/Oakland

EW-6 *EW-15* *EW-22*

PACE Sample Number:		755590	755600	755610	
Date Collected:		05/19/90	05/19/90	05/19/90	
Date Received:		05/19/90	05/19/90	05/19/90	
Parameter	<u>Units</u>	<u>MDL</u>	<u>90200014</u>	<u>90200015</u>	<u>90200016</u>

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):		-	-	-	
Total Purgeable Fuels, as Gasoline	mg/L	0.05	59	32	33
PURGEABLE AROMATICS (BTXE BY EPA 8020):		-	-	-	-
Benzene	mg/L	0.0002	12	5.1	1.6
Ethylbenzene	mg/L	0.0002	1.1	0.4	LT 0.10
Toluene	mg/L	0.0002	20	9.0	7.2
Xylenes, Total	mg/L	0.0002	8.5	4.2	9.7

MDL Method Detection Limit
 LT Less than.

Mr. David Leland
 Page 2

May 30, 1990
 PACE Project
 Number: 400521501

PRP/Oakland

PACE Sample Number:
 Date Collected:
 Date Received:
 Parameter

	INFLUENT	EFFLUENT
	755620	755630
	05/19/90	05/19/90
	05/19/90	05/19/90
	90200017	90200018

Units MDL

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

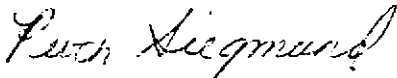
Parameter	Units	MDL	INFLUENT	EFFLUENT
Chlorine, Total Residual	mg/L	0.05	ND	ND

MDL Method Detection Limit
 ND Not detected at or above the MDL.

The data contained in this report were obtained using EPA or other approved methodologies. All analyses were performed by me or under my supervision.



Robert P. Chrin
 Inorganic Chemistry Manager



Ruth J. Siegmund
 Organic Chemistry Manager



7655 Redwood Boulevard
 P.O. Box 578
 Novato, California 94948
 415-892-0821
 Telecopy: 415/892-0831
 Telex: 340523

CHAIN OF CUSTODY FORM

Lab: PACE

Job Number: 9382.039.02
 Name/Location: PRP / OAKLAND
 Project Manager: DAVID LELAND

Sampler: JAMES W. ANDERSON
 Recorder: [Signature]
 (Signature Required)

SOURCE CODE	MATRIX				#CONTAINERS & PRESERV.				SAMPLE NUMBER OR LAB NUMBER			DATE				
	Water	Sediment	Soil	Oil	Unpres.	H ₂ SO ₄	HNO ₃	HCl	Yr	Wk	Seq	Yr	Mo	Dy	Time	
23	X				1				90	2000	13	90	05	19	09	21
23	X				1		3		90	2000	14	90	05	19	09	38
23	X				1		3		90	2000	15	90	05	19	10	00
23	X				1		2		90	2000	16	90	05	19	10	27
23	X				1				90	2000	17	90	05	19	10	34
23	X				1				90	2000	18	90	05	19	10	34

STATION DESCRIPTION/NOTES
75558
75559
75560
75561
75562
75563

ANALYSIS REQUESTED										
EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pllnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.	EPA 8015 (TPH)	NITRATE, AMMONIA, PHOSPHATE	RESIDUAL CHLORINE	
							X	X	X	
	X						X	X	X	3
	X						X	X	X	3 SA
	X						X	X	X	26
										3
										6

LAB NUMBER			DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
Yr	Wk	Seq				
						REGULAR TURN AROUND TIME

CHAIN OF CUSTODY RECORD		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
<u>[Signature]</u>	<u>[Signature]</u>	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature) DATE/TIME
<u>[Signature]</u>	5/19/1990 11:50	<u>[Signature]</u> PACE 5/19/90 11:50
METHOD OF SHIPMENT		

GV 9/2

DISTRIBUTION

**REPORT OF SYSTEM MONITORING
MAY 1990
DEWATERING EFFLUENT TREATMENT SYSTEM
CHINATOWN REDEVELOPMENT PROJECT AREA
OAKLAND, CALIFORNIA
June 15, 1990**

Copy No. 4

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LOH/DFL/tra/LOH900-R

QUALITY CONTROL REVIEWER

Tamara L. Williams

Tamara L. Williams
Geologist - 3954