

# USPCI

A Subsidiary of  
Union Pacific Corporation

92 JUN 11 11:00

To: Jennifer Eberle  
Alameda County Health Agency  
Oakland, Ca.

From: Tim Albright  
USPCI

Date: 6/5/93

Re: 1717 Middle Harbor Rd. Oakland, ca.

Inclose is a copy of the analytical on the tank pull for the above said site.

If you have any questions please call me at 510-689-1010 ex 2011.

Thank You

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**USPCI**  
A Subsidiary of  
Union Pacific Corporation

**Remedial Services**

**Tim L. Albright**  
Senior Project Supervisor

4385 E. Lowell, Suite C  
Ontario, CA 91761  
Office: 714/467-3733  
Fax: 714/467-3735

*Tim Albright*



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

Environmental Science & Engineering, Inc.  
4090 Nelson Avenue, Ste. J  
Concord, CA 94520  
Attention: Tim Albright

Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079  
Sample Matrix: Soil  
Analysis Method: EPA 5030/8015/8020  
First Sample #: 305-0701

Sampled: May 13, 1993  
Received: May 13, 1993  
Reported: May 20, 1993

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 305-0701 West	Sample I.D. 305-0702 East
Purgeable Hydrocarbons	1.0	8.8	1,300
Benzene	0.005	N.D.	N.D.
Toluene	0.005	N.D.	N.D.
Ethyl Benzene	0.005	0.011	2.0
Total Xylenes	0.005	0.066	11
Chromatogram Pattern:		Non Gasoline Mixture (> C10)	Non Gasoline Mixture (> C9)

### Quality Control Data

Report Limit Multiplication Factor:	1.0	100
Date Analyzed:	5/19/93	5/18/93
Instrument Identification:	HP-2	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	100	89

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Karen L. Enstrom  
Project Manager



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Environmental Science & Engineering, Inc.	Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079	Sampled: May 13, 1993
4090 Nelson Avenue, Ste. J	Sample Matrix: Soil	Received: May 13, 1993
Concord, CA 94520	Analysis Method: EPA 3550/8015	Reported: May 20, 1993
Attention: Tim Albright	First Sample #: 305-0701	

## TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 305-0701 West	Sample I.D. 305-0702 East
Extractable Hydrocarbons	1.0	120	21,000
Chromatogram Pattern:		Diesel	Diesel

### Quality Control Data

Report Limit Multiplication Factor:	20	250
Date Extracted:	5/18/93	5/18/93
Date Analyzed:	5/20/93	5/20/93
Instrument Identification:	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

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Environmental Science & Engineering, Inc. 4090 Nelson Avenue, Ste. J Concord, CA 94520 Attention: Tim Albright	Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079 Sample Descript: Soil, East Analysis Method: EPA 5030/8010 Lab Number: 305-0702	Sampled: May 13, 1993 Received: May 13, 1993 Analyzed: May 17, 1993 Reported: May 20, 1993
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## HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	100	N.D.
Bromoform.....	100	N.D.
Bromomethane.....	200	N.D.
Carbon tetrachloride.....	100	N.D.
Chlorobenzene.....	100	N.D.
Chloroethane.....	200	N.D.
2-Chloroethylvinyl ether.....	200	N.D.
Chloroform.....	100	N.D.
Chloromethane.....	200	N.D.
Dibromochloromethane.....	100	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
1,1-Dichloroethane.....	100	N.D.
1,2-Dichloroethane.....	100	N.D.
1,1-Dichloroethene.....	100	N.D.
cis-1,2-Dichloroethene.....	100	N.D.
trans-1,2-Dichloroethene.....	100	N.D.
1,2-Dichloropropane.....	100	N.D.
cis-1,3-Dichloropropene.....	100	N.D.
trans-1,3-Dichloropropene.....	100	N.D.
Methylene chloride.....	1,000	N.D.
1,1,2,2-Tetrachloroethane.....	100	N.D.
Tetrachloroethene.....	100	N.D.
1,1,1-Trichloroethane.....	100	N.D.
1,1,2-Trichloroethane.....	100	N.D.
Trichloroethene.....	100	N.D.
Trichlorofluoromethane.....	100	N.D.
Vinyl chloride.....	200	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Environmental Science & Engineering, Inc.	Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079	Sampled: May 13, 1993
4090 Nelson Avenue, Ste. J	Sample Descript: Soil, West	Received: May 13, 1993
Concord, CA 94520	Analysis Method: EPA 8270	Extracted: May 17, 1993
Attention: Tim Albright	Lab Number: 305-0701	Analyzed: May 18, 1993
		Reported: May 20, 1993

## SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	100	N.D.
Acenaphthylene.....	100	N.D.
Aniline.....	100	N.D.
Anthracene.....	100	N.D.
Benzidine.....	2,500	N.D.
Benzoic Acid.....	500	N.D.
Benzo(a)anthracene.....	100	N.D.
Benzo(b)fluoranthene.....	100	N.D.
Benzo(k)fluoranthene.....	100	N.D.
<b>Benzo(g,h,i)perylene.....</b>	<b>100</b>	<b>100</b>
Benzo(a)pyrene.....	100	N.D.
Benzyl alcohol.....	100	N.D.
Bis(2-chloroethoxy)methane.....	100	N.D.
Bis(2-chloroethyl)ether.....	100	N.D.
Bis(2-chloroisopropyl)ether.....	100	N.D.
Bis(2-ethylhexyl)phthalate.....	500	N.D.
4-Bromophenyl phenyl ether.....	100	N.D.
Butyl benzyl phthalate.....	100	N.D.
4-Chloroaniline.....	100	N.D.
2-Chloronaphthalene.....	100	N.D.
4-Chloro-3-methylphenol.....	100	N.D.
2-Chlorophenol.....	100	N.D.
4-Chlorophenyl phenyl ether.....	100	N.D.
Chrysene.....	100	N.D.
Dibenz(a,h)anthracene.....	100	N.D.
Dibenzofuran.....	100	N.D.
Di-N-butyl phthalate.....	500	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
3,3-Dichlorobenzidine.....	500	N.D.
2,4-Dichlorophenol.....	100	N.D.
Diethyl phthalate.....	100	N.D.
2,4-Dimethylphenol.....	100	N.D.
Dimethyl phthalate.....	100	N.D.
4,6-Dinitro-2-methylphenol.....	500	N.D.
2,4-Dinitrophenol.....	500	N.D.



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Attention: Tim Albright

Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079  
Sample Descript: Soil, West  
Analysis Method: EPA 8270  
Lab Number: 305-0701

Sampled: May 13, 1993  
Received: May 13, 1993  
Extracted: May 17, 1993  
Analyzed: May 18, 1993  
Reported: May 20, 1993

## SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
2,4-Dinitrotoluene.....	100	N.D.
2,6-Dinitrotoluene.....	100	N.D.
Di-N-octyl phthalate.....	100	N.D.
Fluoranthene.....	100	N.D.
<b>Fluorene.....</b>	<b>100</b>	<b>120</b>
Hexachlorobenzene.....	100	N.D.
Hexachlorobutadiene.....	100	N.D.
Hexachlorocyclopentadiene.....	100	N.D.
Hexachloroethane.....	100	N.D.
Indeno(1,2,3-cd)pyrene.....	100	N.D.
Isophorone.....	100	N.D.
<b>2-Methylnaphthalene.....</b>	<b>100</b>	<b>310</b>
2-Methylphenol.....	100	N.D.
4-Methylphenol.....	100	N.D.
Naphthalene.....	100	N.D.
2-Nitroaniline.....	500	N.D.
3-Nitroaniline.....	500	N.D.
4-Nitroaniline.....	500	N.D.
Nitrobenzene.....	100	N.D.
2-Nitrophenol.....	100	N.D.
4-Nitrophenol.....	500	N.D.
N-Nitrosodiphenylamine.....	100	N.D.
N-Nitroso-di-N-propylamine.....	100	N.D.
Pentachlorophenol.....	500	N.D.
<b>Phenanthrene.....</b>	<b>100</b>	<b>280</b>
Phenol.....	100	N.D.
<b>Pyrene.....</b>	<b>100</b>	<b>190</b>
1,2,4-Trichlorobenzene.....	100	N.D.
2,4,5-Trichlorophenol.....	500	N.D.
2,4,6-Trichlorophenol.....	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Karen L. Enstrom  
Project Manager



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Attention: Tim Albright

Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079  
Sample Descript: Soil, East  
Analysis Method: EPA 8270  
Lab Number: 305-0702

Sampled: May 13, 1993  
Received: May 13, 1993  
Extracted: May 14, 1993  
Analyzed: May 15, 1993  
Reported: May 20, 1993

## SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	5,000	N.D.
Acenaphthylene.....	5,000	N.D.
Aniline.....	5,000	N.D.
Anthracene.....	5,000	N.D.
Benzidine.....	130,000	N.D.
Benzoic Acid.....	25,000	N.D.
Benzo(a)anthracene.....	5,000	N.D.
Benzo(b)fluoranthene.....	5,000	N.D.
Benzo(k)fluoranthene.....	5,000	N.D.
Benzo(g,h,i)perylene.....	5,000	N.D.
Benzo(a)pyrene.....	5,000	N.D.
Benzyl alcohol.....	5,000	N.D.
Bis(2-chloroethoxy)methane.....	5,000	N.D.
Bis(2-chloroethyl)ether.....	5,000	N.D.
Bis(2-chloroisopropyl)ether.....	5,000	N.D.
Bis(2-ethylhexyl)phthalate.....	25,000	N.D.
4-Bromophenyl phenyl ether.....	5,000	N.D.
Butyl benzyl phthalate.....	5,000	N.D.
4-Chloroaniline.....	5,000	N.D.
2-Chloronaphthalene.....	5,000	N.D.
4-Chloro-3-methylphenol.....	5,000	N.D.
2-Chlorophenol.....	5,000	N.D.
4-Chlorophenyl phenyl ether.....	5,000	N.D.
Chrysene.....	5,000	N.D.
Dibenz(a,h)anthracene.....	5,000	N.D.
<b>Dibenzofuran.....</b>	<b>5,000</b>	<b>6,500</b>
Di-N-butyl phthalate.....	25,000	N.D.
1,3-Dichlorobenzene.....	5,000	N.D.
1,4-Dichlorobenzene.....	5,000	N.D.
1,2-Dichlorobenzene.....	5,000	N.D.
3,3-Dichlorobenzidine.....	25,000	N.D.
2,4-Dichlorophenol.....	5,000	N.D.
Diethyl phthalate.....	5,000	N.D.
2,4-Dimethylphenol.....	5,000	N.D.
Dimethyl phthalate.....	5,000	N.D.
4,6-Dinitro-2-methylphenol.....	25,000	N.D.
2,4-Dinitrophenol.....	25,000	N.D.



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Concord, CA 94520  
Attention: Tim Albright

Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079  
Matrix Descript: Soil  
Analysis Method: SM 5520 E&F (Gravimetric)  
First Sample #: 305-0701

Sampled: May 13, 1993  
Received: May 13, 1993  
Extracted: May 15, 1993  
Analyzed: May 17, 1993  
Reported: May 20, 1993

## TOTAL RECOVERABLE PETROLEUM OIL

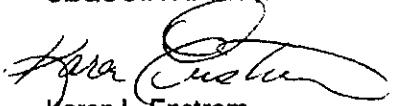
Sample Number	Sample Description	Oil & Grease mg/kg
305-0701	West	500
305-0702	East	25,000

Detection Limits:

50

Analytes reported as N.D. were not present above the stated limit of detection.

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Karen L. Enstrom  
Project Manager

3050701.USP <3>





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Environmental Science & Engineering, Inc.	Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079	Sampled: May 13, 1993
4090 Nelson Avenue, Ste. J	Sample Descript: Soil, West	Received: May 13, 1993
Concord, CA 94520	Analysis Method: EPA 5030/8010	Analyzed: May 18, 1993
Attention: Tim Albright	Lab Number: 305-0701	Reported: May 20, 1993

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	5.0	N.D.
Bromoform.....	5.0	N.D.
Bromomethane.....	10	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
Chloroethane.....	10	N.D.
2-Chloroethylvinyl ether.....	10	N.D.
Chloroform.....	5.0	N.D.
Chloromethane.....	10	N.D.
Dibromochloromethane.....	5.0	N.D.
1,3-Dichlorobenzene.....	5.0	N.D.
1,4-Dichlorobenzene.....	5.0	N.D.
1,2-Dichlorobenzene.....	5.0	N.D.
1,1-Dichloroethane.....	5.0	N.D.
1,2-Dichloroethane.....	5.0	N.D.
1,1-Dichloroethene.....	5.0	N.D.
cis-1,2-Dichloroethene.....	5.0	N.D.
trans-1,2-Dichloroethene.....	5.0	N.D.
1,2-Dichloropropane.....	5.0	N.D.
cis-1,3-Dichloropropene.....	5.0	N.D.
trans-1,3-Dichloropropene.....	5.0	N.D.
Methylene chloride.....	50	N.D.
1,1,1,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	5.0	N.D.
Trichloroethene.....	5.0	N.D.
Trichlorofluoromethane.....	5.0	N.D.
Vinyl chloride.....	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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 Project Manager



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Attention: Tim Albright

Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079  
Sample Descript: Soil, East  
Analysis Method: EPA 8270  
Lab Number: 305-0702

Sampled: May 13, 1993  
Received: May 13, 1993  
Extracted: May 14, 1993  
Analyzed: May 15, 1993  
Reported: May 20, 1993

## SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit ug/kg	Sample Results ug/kg
2,4-Dinitrotoluene.....	5,000	N.D.
2,6-Dinitrotoluene.....	5,000	N.D.
Di-N-octyl phthalate.....	5,000	N.D.
Fluoranthene.....	5,000	N.D.
<b>Fluorene.....</b>	<b>5,000</b>	<b>15,000</b>
Hexachlorobenzene.....	5,000	N.D.
Hexachlorobutadiene.....	5,000	N.D.
Hexachlorocyclopentadiene.....	5,000	N.D.
Hexachloroethane.....	5,000	N.D.
indeno(1,2,3-cd)pyrene.....	5,000	N.D.
isophorone.....	5,000	N.D.
<b>2-Methylnaphthalene.....</b>	<b>5,000</b>	<b>92,000</b>
2-Methylphenol.....	5,000	N.D.
4-Methylphenol.....	5,000	N.D.
<b>Naphthalene.....</b>	<b>5,000</b>	<b>20,000</b>
2-Nitroaniline.....	25,000	N.D.
3-Nitroaniline.....	25,000	N.D.
4-Nitroaniline.....	25,000	N.D.
Nitrobenzene.....	5,000	N.D.
2-Nitrophenol.....	5,000	N.D.
4-Nitrophenol.....	25,000	N.D.
N-Nitrosodiphenylamine.....	5,000	N.D.
N-Nitroso-di-N-propylamine.....	5,000	N.D.
Pentachlorophenol.....	25,000	N.D.
<b>Phenanthrene.....</b>	<b>5,000</b>	<b>30,000</b>
Phenol.....	5,000	N.D.
Pyrene.....	5,000	N.D.
1,2,4-Trichlorobenzene.....	5,000	N.D.
2,4,5-Trichlorophenol.....	25,000	N.D.
2,4,6-Trichlorophenol.....	5,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Project Manager



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Attention: Tim Albright

Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079  
Sample Descript: Soil, West  
Lab Number: 305-0701


Sampled: May 13, 1993  
Received: May 13, 1993  
Extracted: May 17, 1993  
Analyzed: 5/17-5/20/93  
Reported: May 20, 1993

## LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium	0.50	1.1
Chromium	0.25	39
Lead	0.25	7.2
Nickel	2.5	48
Zinc	0.50	34

Analytes reported as N.D. were not present above the stated limit of detection.

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Attention: Tim Albright

Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079  
Sample Descript: Soil, East  
Lab Number: 305-0702

Sampled: May 13, 1993  
Received: May 13, 1993  
Extracted: May 17, 1993  
Analyzed: 5/17-5/20/93  
Reported: May 20, 1993


## LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
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Cadmium	0.50	0.75
Chromium	0.25	28
Lead	0.25	9.5
Nickel	2.5	25
Zinc	0.50	26

Analytes reported as N.D. were not present above the stated limit of detection.

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Attention: Tim Albright

Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079  
Matrix: Soil

QC Sample Group 3060701-702

Reported: May 20, 1993

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Diesel	Oil & Grease
<b>Method:</b>	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	SM 5520
<b>Analyst:</b>	J.F.	J.F.	J.F.	J.F.	K.Wimer	D.Newcomb
<b>Conc. Spiked:</b>	0.40	0.40	0.40	1.2	10	5000
<b>Units:</b>	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>LCS Batch#:</b>	2LCS051893	2LCS051893	2LCS051893	2LCS051893	BLK051893	BLK051593
<b>Date Prepared:</b>	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/14/93
<b>Date Analyzed:</b>	5/18/93	5/18/93	5/18/93	5/18/93	5/21/93	5/15/93
<b>Instrument I.D.#:</b>	HP-4	HP-4	HP-4	HP-4	HP-3A	N/A
<b>LCS % Recovery:</b>	96	96	100	108	96	108
<b>Control Limits:</b>	70-130	70-130	70-130	70-130	80-120	80-120
<b>MS/MSD Batch #:</b>	3050686	3050686	3050686	3050686	3050870	3050697
<b>Date Prepared:</b>	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/15/93
<b>Date Analyzed:</b>	5/18/93	5/18/93	5/18/93	5/18/93	5/21/93	5/15/93
<b>Instrument I.D.#:</b>	HP-4	HP-4	HP-4	HP-4	HP-3A	N/A
<b>Matrix Spike % Recovery:</b>	80	78	75	82	76	120
<b>Matrix Spike Duplicate % Recovery:</b>	85	80	88	88	74	116
<b>Relative % Difference:</b>	6.0	2.5	16	7.0	2.8	4.0

SEQUOIA ANALYTICAL

Karen L. Enstrom  
Project Manager

**Please Note:**

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1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

Environmental Science & Engineering, Inc.  
4090 Nelson Avenue, Ste. J  
Concord, CA 94520  
Attention: Tim Albright

Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079  
Matrix: Soil

QC Sample Group: 3050701-702

Reported: May 20, 1993

## QUALITY CONTROL DATA REPORT

ANALYTE	Chromium	Lead	Cadmium	Nickel	Zinc
<b>Method:</b>	EPA 7191	EPA 7421	EPA 7191	EPA 7520	EPA 7950
<b>Analyst:</b>	K.V.S.	K.M.A.	K.V.S.	K.V.S.	K.V.S.
<b>Conc. Spiked:</b>	50	50	50	50	50
<b>Units:</b>	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>LCS Batch#:</b>	BLK051793	BLK051793	BLK051793	BLK051793	BLK051793
<b>Date Prepared:</b>	5/17/93	5/17/93	5/17/93	5/17/93	5/17/93
<b>Date Analyzed:</b>	5/18/93	5/17/93	5/19/93	5/20/93	5/20/93
<b>Instrument I.D.#:</b>	SpectrAA-400	SpectrAA-400	SpectrAA-20	SpectrAA-20	SpectrAA-20
<b>LCS % Recovery:</b>	94	98	88	90	84
<b>Control Limits:</b>	75-125	75-125	75-125	75-125	75-125
<b>MS/MSD Batch #:</b>	3050702	3050702	3050702	3050702	3050702
<b>Date Prepared:</b>	5/17/93	5/17/93	5/17/93	5/17/93	5/17/93
<b>Date Analyzed:</b>	5/18/93	5/17/93	5/19/93	5/20/93	5/20/93
<b>Instrument I.D.#:</b>	SpectrAA-400	SpectrAA-400	SpectrAA-20	SpectrAA-20	SpectrAA-20
<b>Matrix Spike % Recovery:</b>	98	91	97	96	98
<b>Matrix Spike Duplicate % Recovery:</b>	98	93	95	96	96
<b>Relative % Difference:</b>	0.0	2.2	2.1	0.0	2.1

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## QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro- benzene	N-Nitroso-Di- N-propylamine	1,2,4-Trichloro- benzene	4-Chloro-3- Methylphenyl
<b>Method:</b>	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
<b>Analyst:</b>	Son Le	Son Le	Son Le	Son Le	Son Le	Son Le
<b>Conc. Spiked:</b>	5000	5000	2500	2500	2500	5,000
<b>Units:</b>	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg
<b>LCS Batch#:</b>	LCS051493	LCS051493	LCS051493	LCS051493	LCS051493	LCS051493
<b>Date Prepared:</b>	5/14/93	5/14/93	5/14/93	5/14/93	5/14/93	5/14/93
<b>Date Analyzed:</b>	5/17/93	5/17/93	5/17/93	5/17/93	5/17/93	5/17/93
<b>Instrument I.D.#:</b>	GC/MS1	GC/MS1	GC/MS1	GC/MS1	GC/MS1	GC/MS1
<b>LCS % Recovery:</b>	71	69	66	90	68	77
<b>Control Limits:</b>	26-90	25-102	28-104	41-126	38-107	26-103
<b>MS/MSD Batch #:</b>	3050585	3050585	3050585	3050585	3050585	3050585
<b>Date Prepared:</b>	5/14/93	5/14/93	5/14/93	5/14/93	5/14/93	5/14/93
<b>Date Analyzed:</b>	5/17/93	5/17/93	5/17/93	5/17/93	5/17/93	5/17/93
<b>Instrument I.D.#:</b>	GC/MS1	GC/MS1	GC/MS1	GC/MS1	GC/MS1	GC/MS1
<b>Matrix Spike % Recovery:</b>	125	167	156	22	194	197
<b>Matrix Spike Duplicate % Recovery:</b>	124	165	156	42	180	191
<b>Relative % Difference:</b>	0.80	1.2	0.0	63	7.5	3.1

SEQUOIA ANALYTICAL

Karen L. Enstrom  
Project Manager

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Client Project ID: U.S.P.C.I.-Oakland/#6-93-5079  
Matrix: Soil

QC Sample Group: 3050701-702

Reported: May 20, 1993

## QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
<b>Method:</b>	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
<b>Analyst:</b>	Son Le	Son Le	Son Le	Son Le	Son Le
<b>Conc. Spiked:</b>	2500	5,000	2500	5,000	2500
<b>Units:</b>	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg
<b>LCS Batch#:</b>	LCS051493	LCS051493	LCS051493	LCS051493	LCS051493
<b>Date Prepared:</b>	5/14/93	5/14/93	5/14/93	5/14/93	5/14/93
<b>Date Analyzed:</b>	5/17/93	5/17/93	5/17/93	5/17/93	5/17/93
<b>Instrument I.D.#:</b>	GC/MS1	GC/MS1	GC/MS1	GC/MS1	GC/MS1
<b>LCS % Recovery:</b>	76	68	60	81	116
<b>Control Limits:</b>	31-137	11-114	28-89	17-109	35-142
<b>MS/MSD Batch #:</b>	3050585	3050585	3050585	3050585	3050585
<b>Date Prepared:</b>	5/14/93	5/14/93	5/14/93	5/14/93	5/14/93
<b>Date Analyzed:</b>	5/17/93	5/17/93	5/17/93	5/17/93	5/17/93
<b>Instrument I.D.#:</b>	GC/MS1	GC/MS1	GC/MS1	GC/MS1	GC/MS1
<b>Matrix Spike % Recovery:</b>	214	8.0	38	30	280
<b>Matrix Spike Duplicate % Recovery:</b>	202	19	60	54	290
<b>Relative % Difference:</b>	5.8	81	45	57	3.51

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SEQUOIA ANALYTICAL

Karen L. Enstrom  
Project Manager



USPCI # 93409

CHAIN OF CUSTODY RECORD

DATE 5/13/93 PAGE 1 OF 1

PROJECT NAME USPCI - Oakland

ADDRESS 1717 M. Harbor Rd.  
Oakland, CA

PROJECT NO. 6-93-5079

SAMPLED BY KERRY LEFEVER

LAB NAME SEQUOIA ANALYTICAL



Environmental Science & Engineering, Inc.

4000 Nelson Avenue  
Suite J  
Concord, CA 94520

(415) 685-4053  
Fax (415) 685-5323

SAMPLE #	DATE	TIME	LOCATION
WEST	5/13/93	1115	west sidewalk @ 4.5 feet
EAST	5/13/93	1205	SE sidewalk @ 6.5 feet

ANALYSES TO BE PERFORMED								MATRIX		MATRIX	NUMBER OF CONTAINERS	REMARKS (CONTAINER, SIZE, ETC.)
TPH-G/BTEX	TPH-D	ODG	chlorinated hydrocarbons	coliform/bacteria/AA	semi volatiles							
X	X	X	X	X	X			3050701	SOIL	1	BRASS RING	
X	X	X	X	X	X			↓ 702	SOIL	1	BRASS RING	

RELINQUISHED BY: (signature) Kerry Lefever

RECEIVED BY: (signature) [Signature]

date 5/13/93 time 3:55pm

2

TOTAL NUMBER OF CONTAINERS

REPORT RESULTS TO:  
Tim  
#ARBRIGHT  
93409

SPECIAL SHIPMENT REQUIREMENTS

SAMPLE RECEIPT

INSTRUCTIONS TO LABORATORY (handling, analyses, storage, etc.):

5 DAY TA

See USPCI

CHAIN OF CUSTODY SEALS

REC'D GOOD COND'TN/COLD

CONFORMS TO RECORD