

#5803

**FACSIMILE TRANSMISSION**

**To:** Barney Chan

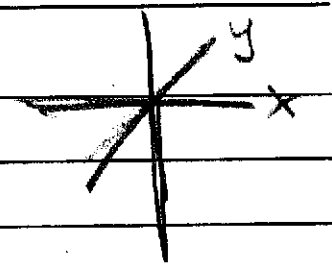
**Fax Number:** 337-9335

**From:** Jim McCarty

**Date:** May 31, 2000

**Subject:** 9th and Broadway Sample Results

**Project Number:** 49600-5



**Number of pages (including this cover sheet):** 18

**Remarks:**

Barney  
Here is a copy of the lab results for the soil at the 9<sup>th</sup> and Broadway site. The area of contamination started at about 2 feet below grade.

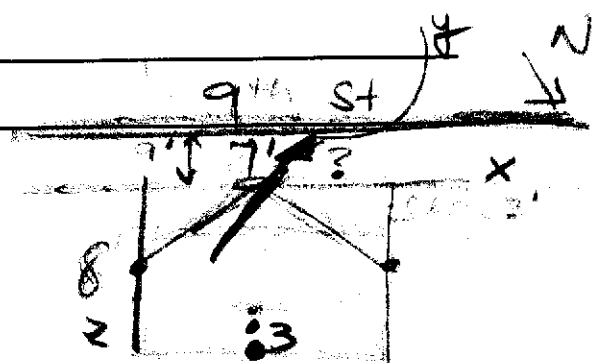
Sample 1 is from the sidewall at about 4 feet below grade

Sample 2 is from the sidewall at about 8 feet below grade

Sample 3 from the bottom at 8.5 to 9 feet below grade

Sample 4 a composite from the stockpile

← will run L 8200 for VOC's.



Note: The flag on the diesel and gas results indicate that the results do not match the standard and therefore is not likely to be gas or diesel.

**cc:** \_\_\_\_\_

**Transmitted by:** \_\_\_\_\_

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**Harding Lawson Associates**  
 Engineering and Environmental Services  
 383 Fourth Street, Third Floor  
 Oakland, CA 94607 — (510) 451-1001

**FAX (510) 451-3165**



**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

## Total Extractable Petroleum Hydrocarbons (TEPH)

Harding Lawson Assoc -Oakland

✉ 383 Fourth Street, Third Floor  
Oakland, CA 94607

Attn: James G McCarty

Phone: (510) 628-3220 Fax: (510) 451-3165

Project #: 49600-5

Project: 9th &amp; Broadway, Oakland

## Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
Sample #1	Soil	05/25/2000 09:00	1
Sample #2	Soil	05/25/2000 09:00	2
Sample #3	Soil	05/25/2000 09:00	3
Sample #4	Soil	05/25/2000 09:00	4

1220 Quarry Lane \* Pleasanton, CA 94586-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M

Attn.: James G McCarty

Prep Method: 3550/8015M

## Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: <b>Sample #1</b>	Lab Sample ID: <b>2000-05-0557-001</b>
Project: 49600-5 9th & Broadway, Oakland	Received: 05/25/2000 17:08
Sampled: 05/25/2000 09:00	Extracted: 05/25/2000 10:23
Matrix: Soil	QC-Batch: 2000/05/25-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1200	20	mg/Kg	20.00	05/30/2000 17:16	ndp
Motor Oil	2100	1000	mg/Kg	20.00	05/30/2000 17:16	
Mineral spirits	ND	200	mg/Kg	20.00	05/30/2000 17:16	
<b>Surrogate(s)</b> o-Terphenyl	118.1	60-130	%	20.00	05/30/2000 17:16	

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**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**  
 Attn.: James G McCarty

Test Method: 8015M  
 Prep Method: 3550/8015M

## Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	Sample #2	Lab Sample ID:	2000-05-0557-002
Project:	49600-5 9th & Broadway, Oakland	Received:	05/25/2000 17:08
Sampled:	05/25/2000 09:00	Extracted:	05/25/2000 10:23
Matrix:	Soil	QC-Batch:	2000/05/25-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2200	20	mg/Kg	20.00	05/30/2000 17:55	ndp
Motor Oil	3900	1000	mg/Kg	20.00	05/30/2000 17:55	
Mineral spirits	320	200	mg/Kg	20.00	05/30/2000 17:55	
<b>Surrogate(s)</b> o-Terphenyl	120.0	60-130	%	20.00	05/30/2000 17:55	

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Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M

Attn.: James G McCarty

Prep Method: 3550/8015M

## Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	<b>Sample #3</b>	Lab Sample ID:	<b>2000-05-0557-003</b>
Project:	49600-5 9th & Broadway, Oakland	Received:	05/25/2000 17:08
Sampled:	05/25/2000 09:00	Extracted:	05/25/2000 10:23
Matrix:	Soil	QC-Batch:	2000/05/25-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	160	1.0	mg/Kg	1.00	05/31/2000 01:07	ndp
Motor Oil	300	50	mg/Kg	1.00	05/31/2000 01:07	
Mineral spirits	19	10	mg/Kg	1.00	05/31/2000 01:07	
<b>Surrogate(s)</b> o-Terphenyl	96.6	60-130	%	1.00	05/31/2000 01:07	

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Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M

Attn.: James G McCarty

Prep Method: 3550/8015M

## Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	<b>Sample #4</b>	Lab Sample ID:	<b>2000-05-0557-004</b>
Project:	49600-5 9th & Broadway, Oakland	Received:	05/25/2000 17:08
Sampled:	05/25/2000 09:00	Extracted:	05/25/2000 10:23
Matrix:	Soil	QC-Batch:	2000/05/25-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1000	20	mg/Kg	20.00	05/30/2000 18:35	ndp
Motor Oil	2100	1000	mg/Kg	20.00	05/30/2000 18:35	
Mineral spirits	ND	200	mg/Kg	20.00	05/30/2000 18:35	
<b>Surrogate(s)</b> o-Terphenyl	115.7	60-130	%	20.00	05/30/2000 18:35	

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**CHROMALAB, INC.**

Submission #: 2000-05-0557

Environmental Services (SDB)

To: **Harding Lawson Assoc -Oakland**  
Attn.: James G McCartyTest Method: 8015M  
Prep Method: 3550/8015M**Batch QC Report**  
Total Extractable Petroleum Hydrocarbons (TEPH)

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2000/05/25-04.10</b>
MB: 2000/05/25-04.10-001		Date Extracted: 05/25/2000 10:23

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	05/26/2000 01:02	
Motor Oil	ND	50	mg/Kg	05/26/2000 01:02	
Mineral spirits	ND	10	mg/Kg	05/26/2000 01:02	
<b>Surrogate(s)</b> o-Terphenyl	87.5	60-130	%	05/26/2000 01:02	

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**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M

Attn: James G McCarty

Prep Method: 3550/8015M

**Batch QC Report**

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/05/25-04.10
LCS: 2000/05/25-04.10-002	Extracted: 05/25/2000 10:23	Analyzed 05/26/2000 01:49
LCSD: 2000/05/25-04.10-003	Extracted: 05/25/2000 10:23	Analyzed 05/26/2000 02:35

Compound	Conc. [ mg/Kg ]		Exp.Conc. [ mg/Kg ]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	41.5	41.0	41.7	41.7	99.5	98.3	1.2	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	23.0	24.4	20.0	20.0	115.0	122.0		60-130			

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**  
Attn: James G McCarty

Test Method: 8015M  
Prep Method: 3550/8015M

## Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

### Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

Gas/BTEX (Methanol Extraction)

Harding Lawson Assoc -Oakland

✉ 383 Fourth Street, Third Floor  
Oakland, CA 94607

Attn: James G McCarty

Phone: (510) 628-3220 Fax: (510) 451-3165

Project #: 49600-5

Project: 9th &amp; Broadway, Oakland

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
Sample #1	Soil	05/25/2000 09:00	1
Sample #2	Soil	05/25/2000 09:00	2
Sample #3	Soil	05/25/2000 09:00	3
Sample #4	Soil	05/25/2000 09:00	4

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**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**Test Method: 8015M  
8020

Attn.: James G McCarty

Prep Method: 5030

Gas/BTEX (Methanol Extraction)

Sample ID:	Sample #1	Lab Sample ID:	2000-05-0557-001
Project:	49600-5 9th & Broadway, Oakland	Received:	05/25/2000 17:08
Sampled:	05/25/2000 09:00	Extracted:	05/26/2000 12:24
Matrix:	Soil	QC-Batch:	2000/05/26-05.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	240	10	mg/Kg	1.00	05/26/2000 12:24	g
Benzene	ND	0.62	mg/Kg	1.00	05/26/2000 12:24	
Toluene	ND	0.62	mg/Kg	1.00	05/26/2000 12:24	
Ethyl benzene	ND	0.62	mg/Kg	1.00	05/26/2000 12:24	
Xylene(s)	ND	0.62	mg/Kg	1.00	05/26/2000 12:24	
<b>Surrogate(s)</b>						
Trifluorotoluene	90.2	53-125	%	1.00	05/26/2000 12:24	
Trifluorotoluene-FID	95.8	53-125	%	1.00	05/26/2000 12:24	

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**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**Test Method: 8015M  
8020

Attn.: James G McCarty

Prep Method: 5030

Gas/BTEX (Methanol Extraction)

Sample ID:	<b>Sample #2</b>	Lab Sample ID:	<b>2000-05-0557-002</b>
Project:	49600-5 9th & Broadway, Oakland	Received:	05/25/2000 17:08
Sampled:	05/25/2000 09:00	Extracted:	05/26/2000 15:15
Matrix:	Soil	QC-Batch:	2000/05/26-05.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	870	100	mg/Kg	10.00	05/26/2000 15:15	g
Benzene	ND	6.2	mg/Kg	10.00	05/26/2000 15:15	
Toluene	ND	6.2	mg/Kg	10.00	05/26/2000 15:15	
Ethyl benzene	ND	6.2	mg/Kg	10.00	05/26/2000 15:15	
Xylene(s)	ND	6.2	mg/Kg	10.00	05/26/2000 15:15	
<b>Surrogate(s)</b>						
Trifluorololuene	NA	53-125	mg/Kg	1.00	05/26/2000 15:15	sd
4-Bromofluorobenzene-FID	NA	58-124	mg/Kg	1.00	05/26/2000 15:15	sd

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**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**Test Method: 8015M  
8020

Attn.: James G McCarty

Prep Method: 5030

Gas/BTEX (Methanol Extraction)

Sample ID:	<b>Sample #3</b>	Lab Sample ID:	<b>2000-05-0557-003</b>
Project:	49600-5 9th & Broadway, Oakland	Received:	05/25/2000 17:08
Sampled:	05/25/2000 09:00	Extracted:	05/26/2000 13:19
Matrix:	Soil	QC-Batch:	2000/05/26-05.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	46	10	mg/Kg	1.00	05/26/2000 13:19	g
Benzene	ND	0.62	mg/Kg	1.00	05/26/2000 13:19	
Toluene	ND	0.62	mg/Kg	1.00	05/26/2000 13:19	
Ethyl benzene	ND	0.62	mg/Kg	1.00	05/26/2000 13:19	
Xylene(s)	ND	0.62	mg/Kg	1.00	05/26/2000 13:19	
<b>Surrogate(s)</b>						
Trifluorotoluene	72.0	53-125	%	1.00	05/26/2000 13:19	
4-Bromofluorobenzene-FID	102.4	58-124	%	1.00	05/26/2000 13:19	

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**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**Test Method: 8015M  
8020

Attn.: James G McCarty

Prep Method: 5030

Gas/BTEX (Methanol Extraction)

Sample ID: <b>Sample #4</b>	Lab Sample ID: <b>2000-05-0557-004</b>
Project: 49600-5 9th & Broadway, Oakland	Received: 05/25/2000 17:08
Sampled: 05/25/2000 09:00	Extracted: 05/26/2000 13:47
Matrix: Soil	QC-Batch: 2000/05/26-05.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	110	10	mg/Kg	1.00	05/26/2000 13:47	g
Benzene	ND	0.62	mg/Kg	1.00	05/26/2000 13:47	
Toluene	ND	0.62	mg/Kg	1.00	05/26/2000 13:47	
Ethyl benzene	ND	0.62	mg/Kg	1.00	05/26/2000 13:47	
Xylene(s)	ND	0.62	mg/Kg	1.00	05/26/2000 13:47	
<b>Surrogate(s)</b>						
Trifluorotoluene	90.3	53-125	%	1.00	05/26/2000 13:47	
Trifluorotoluene-FID	99.1	53-125	%	1.00	05/26/2000 13:47	

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**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M

8020

Attn.: James G McCarty

Prep Method: 5030

**Batch QC Report**  
Gas/BTEX (Methanol Extraction)

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 2000/05/26-05.01</b>
MB: 2000/05/26-05.01-001		Date Extracted: 05/26/2000 13:11

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	10	mg/Kg	05/26/2000 13:11	
Benzene	ND	0.62	mg/Kg	05/26/2000 13:11	
Toluene	ND	0.62	mg/Kg	05/26/2000 13:11	
Ethyl benzene	ND	0.62	mg/Kg	05/26/2000 13:11	
Xylene(s)	ND	0.62	mg/Kg	05/26/2000 13:11	
<b>Surrogate(s)</b>					
Trifluorotoluene	88.0	53-125	%	05/26/2000 13:11	
4-Bromofluorobenzene-FID	94.8	58-124	%	05/26/2000 13:11	

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**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-05-0557

To: Harding Lawson Assoc -Oakland

Test Method: 8015M  
8020

Attn: James G McCarty

Prep Method: 5030

**Batch QC Report**

Gas/BTEX (Methanol Extraction)

**Laboratory Control Spike (LCS/LCSD)****Soil****QC Batch # 2000/05/26-05.01**

LCS: 2000/05/26-05.01-002

Extracted: 05/26/2000 13:46

Analyzed 05/26/2000 13:46

LCSD: 2000/05/26-05.01-003

Extracted: 05/26/2000 14:20

Analyzed 05/26/2000 14:20

Compound	Conc. [ mg/Kg ]		Exp.Conc. [ mg/Kg ]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD		
Gasoline	0.756	0.772	0.625	0.625	121.0	123.5	2.0	75-125	35				
Benzene	0.120	0.119	0.125	0.125	96.0	95.2	0.8	77-123	35				
Toluene	0.114	0.114	0.125	0.125	91.2	91.2	0.0	78-122	35				
Ethyl benzene	0.117	0.118	0.125	0.125	93.6	94.4	0.9	70-130	35				
Xylene(s)	0.357	0.361	0.375	0.375	95.2	96.3	1.1	75-125	35				
<b>Surrogate(s)</b>													
Trifluorotoluene	458	453	500	500	91.6	90.6		53-125					
4-Bromofluorobenzene-FI	532	542	500	500	106.4	108.4		58-124					

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0557

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M  
8020

Attn: James G McCarty

Prep Method: 5030

## Legend & Notes

Gas/BTEX (Methanol Extraction)

### Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

sd

Surrogate diluted out due to the presence of non-target materials.

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