



FAX BEING SENT BY:

Aqua Science Engineers, Inc.
 208 W. El Pintado Rd.
 Danville, CA 94526
 Phone (925) 820-9391
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1588

TO: Barney Chan FROM: Erik

FAX #: 510-337-9335 DATE: 2/13/02

PHONE #: NUMBER OF PAGES: ~~2~~ 27

RE: Lim property analytical results

250 8th St 94607

MESSAGE:

I have attached the soil and groundwater sampling data for the Lim Property site located in

Oakland

thanks,

Erik



NORTH

SCALE
1" = 30'

HARRISON STREET

8TH STREET

Unocal
MW-7

Unocal
MW-8

CHAN AUTO

MW-4
(13.73)

FORMER
USTS &
OVEREXCAVATION
BOUNDARY

BH-A

13.7'

BH-B

13.5'

BH-C

MW-1
(13.58)

BUILDING

EW-1
(13.54)

AS-1

MW-3
(13.29)

MW-5
(13.38)

MW-2
(13.57)

MW-4

SIDEWALK

FORMER
USTS/
OVEREXCAVATION

ARCO
MW-1

ARCO
MW-3

FORMER
ARCO
SERVICE
STATION

ARCO
MW-7

LEGEND

Approx. Groundwater Flow Direction

ASE Monitoring Well
MW-1

(13.38') Groundwater elevation, relative to MSL

Groundwater elevation contour

GROUNDWATER ELEVATION
CONTOUR MAP - 1/18/02

726 HARRISON STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS

Figure 2

7TH STREET

Analytical Summary

SAMPLE ID	Water (ug/l) ppb					Soil mg/kg (ppm)									
	TPHg	TPHd	B	TEX	MTBE	TPHg	TPHd	B	TEX	MTBE					
BH-A	760,000	170,000	43	ND	→	[14.5-15']	ND	→	→	→					
BH-B	100,000	30,000	20,000	32,000	4200	18,000	ND	[13.5-14.0]	1.5	ND	.048	.016	.025	.058	ND
BH-C	37,000	12,000	10,000	4300	870	3700	ND	[17.5-18]	9100	1600	1000	360	98	660	ND
BH-D	100,000	10,000	10,000	.7400	12,500	48,000	ND	[17.5-18]	1200	1500	7.8	22	18	71	ND
BH-E	20,000	20,000	10,000	2200	5500	22,000	ND	[17-17.5]	4	2.2	0.12	ND	0.17	.02	ND



Report Number: 22373

Date: 10/7/2001

Eric Paddleford
Aqua Science Engineers, Inc.
208 West El Pintado Rd.
Danville, CA 94526

Subject : 5 Water Samples and 18 Soil Samples
Project Name : Lim Property
Project Number : 2808

Dear Mr. Paddleford,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff

720 Olive Drive, Suite D Davis, CA 95618 530-297-4800



Report Number : 22373

Date : 10/7/2001

Project Name : **Lim Property**

Project Number : **2808**

Sample : **BH-A**

Matrix : **Water**

Lab Number : **22373-01**

Sample Date : **9/17/2001**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	43	25	ug/L	EPA 8260B	10/1/2001
Toluene	< 25	25	ug/L	EPA 8260B	10/1/2001
Ethylbenzene	< 25	25	ug/L	EPA 8260B	10/1/2001
Total Xylenes	< 50	50	ug/L	EPA 8260B	10/1/2001
Methyl-t-butyl ether (MTBE)	< 250	250	ug/L	EPA 8260B	10/1/2001
TPH as Gasoline	760000	5000	ug/L	EPA 8260B	10/1/2001
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	10/1/2001
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	10/1/2001
TPH as Diesel	170000	2500	ug/L	M EPA 8015	10/3/2001
TPH as Motor Oil	< 5000	5000	ug/L	M EPA 8015	10/3/2001

Approved By: **Joel Kiff**



Project Name : Lim Property

Project Number : 2808

Sample : BH-B

Matrix : Water


Report Number : 22373

Date : 10/7/2001

Sample Date :9/17/2001

Lab Number : 22373-02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	34000	250	ug/L	EPA 8260B	10/1/2001
Toluene	32000	250	ug/L	EPA 8260B	10/1/2001
Ethylbenzene	4200	25	ug/L	EPA 8260B	9/30/2001
Total Xylenes	18000	25	ug/L	EPA 8260B	9/30/2001
Methyl-t-butyl ether (MTBE)	< 250	250	ug/L	EPA 8260B	9/30/2001
TPH as Gasoline	490000	50000	ug/L	EPA 8260B	10/1/2001
Toluene - dB (Surr)	100		% Recovery	EPA 8260B	9/30/2001
4-Bromofluorobenzene (Surr)	99.6		% Recovery	EPA 8260B	9/30/2001
TPH as Diesel	340000	5000	ug/L	M EPA 8015	9/30/2001
TPH as Motor Oil	< 10000	10000	ug/L	M EPA 8015	9/30/2001


 Approved By: Joel Kiff

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Project Name : **Lim Property**Project Number : **2808**

Report Number : 22373

Date : 10/7/2001

Sample : **BH-C**Matrix : **Water**

Lab Number : 22373-03

Sample Date : 9/17/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	6100	25	ug/L	EPA 8260B	10/1/2001
Toluene	4300	25	ug/L	EPA 8260B	10/1/2001
Ethylbenzene	890	25	ug/L	EPA 8260B	10/1/2001
Total Xylenes	3700	25	ug/L	EPA 8260B	10/1/2001
Methyl-t-butyl ether (MTBE)	< 250	250	ug/L	EPA 8260B	10/1/2001
TPH as Gasoline	37000	5000	ug/L	EPA 8260B	10/1/2001
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	10/1/2001
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	10/1/2001
TPH as Diesel	12000	50	ug/L	M EPA 8015	9/28/2001
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	9/28/2001



Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Project Name : **Lim Property**Project Number : **2808**Report Number : **22373**Date : **10/7/2001**Sample : **BH-D**Matrix : **Water**Lab Number : **22373-04**Sample Date : **9/17/2001**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	16000	25	ug/L	EPA 8260B	9/30/2001
Toluene	7400	25	ug/L	EPA 8260B	9/30/2001
Ethylbenzene	12000	25	ug/L	EPA 8260B	9/30/2001
Total Xylenes	48000	25	ug/L	EPA 8260B	9/30/2001
Methyl-t-butyl ether (MTBE)	< 250	250	ug/L	EPA 8260B	9/30/2001
TPH as Gasoline	700000	5000	ug/L	EPA 8260B	9/30/2001
Toluene - dB (Surr)	103		% Recovery	EPA 8260B	9/30/2001
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	9/30/2001
TPH as Diesel	130000	500	ug/L	M EPA 8015	10/3/2001
TPH as Motor Oil	< 1000	1000	ug/L	M EPA 8015	10/3/2001


 Approved By: **Joel Kiff**

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Project Name : **Lim Property**Project Number : **2808**

Report Number : 22373

Date : 10/7/2001

Sample : **BH-E**Matrix : **Water**

Lab Number : 22373-05

Sample Date : 9/17/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	5600	100	ug/L	EPA 8260B	10/3/2001
Toluene	2200	100	ug/L	EPA 8260B	10/3/2001
Ethylbenzene	5500	100	ug/L	EPA 8260B	10/3/2001
Total Xylenes	22000	100	ug/L	EPA 8260B	10/3/2001
Methyl-t-butyl ether (MTBE)	< 1000	1000	ug/L	EPA 8260B	10/3/2001
TPH as Gasoline	200000	10000	ug/L	EPA 8260B	10/3/2001
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	10/3/2001
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	10/3/2001
TPH as Diesel	230000	1000	ug/L	M EPA 8015	10/3/2001
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	9/28/2001


 Approved By: Joel Kiff

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Project Name : **Lim Property**Project Number : **2808**

Report Number : 22373

Date : 10/7/2001

Sample : **BH-A-14.5-15.0**

Matrix : Soil

Lab Number : 22373-08

Sample Date : 9/17/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/28/2001
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/28/2001
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/28/2001
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/28/2001
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/28/2001
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	9/28/2001
Toluene - dB (Surr)	99.2		% Recovery	EPA 8260B	9/28/2001
4-Bromofluorobenzene (Surr)	98.1		% Recovery	EPA 8260B	9/28/2001
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	10/1/2001
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	10/1/2001
1-Chlorooctadecane (Diesel Surrogate)	113		% Recovery	M EPA 8015	10/1/2001


 Approved By: Joel Kiff

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Project Name : **Lim Property**Project Number : **2808**Sample : **BH-B-13.5-14.0**Sample Date : **9/17/2001**Matrix : **Soil**Report Number : **22373**Date : **10/7/2001**Lab Number : **22373-12**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.048	0.0050	mg/Kg	EPA 8260B	9/30/2001
Toluene	0.016	0.0050	mg/Kg	EPA 8260B	9/30/2001
Ethylbenzene	0.025	0.0050	mg/Kg	EPA 8260B	9/30/2001
Total Xylenes	0.058	0.0050	mg/Kg	EPA 8260B	9/30/2001
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/30/2001
TPH as Gasoline	1.5	1.0	mg/Kg	EPA 8260B	9/30/2001
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	9/30/2001
4-Bromofluorobenzene (Surr)	94.5		% Recovery	EPA 8260B	9/30/2001
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	10/1/2001
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	10/1/2001
1-Chlorooctadecane (Diesel Surrogate)	113		% Recovery	M EPA 8015	10/1/2001


 Approved By: **Joel Kiff**

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Project Name : Lim Property
 Project Number : 2808

Report Number : 22373
 Date : 10/7/2001

Sample : BH-C-17.5-18.0
 Sample Date : 9/17/2001

Matrix : Soil

Lab Number : 22373-16

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	360	0.25	mg/Kg	EPA 8260B	9/28/2001
Toluene	98	2.5	mg/Kg	EPA 8260B	9/30/2001
Ethylbenzene	660	0.25	mg/Kg	EPA 8260B	9/28/2001
Total Xylenes	< 0.25	5.0	mg/Kg	EPA 8260B	9/30/2001
Methyl-t-butyl ether (MTBE)		0.25	mg/Kg	EPA 8260B	9/28/2001
TPH as Gasoline	9100	200	mg/Kg	EPA 8260B	9/30/2001
Toluene - d8 (Surr)	96.5		% Recovery	EPA 8260B	9/28/2001
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	9/28/2001
TPH as Diesel	1600	1.0	mg/Kg	M EPA 8015	10/1/2001
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	10/1/2001
1-Chlorooctadecane (Diesel Surrogate)	116		% Recovery	M EPA 8015	10/1/2001

Approved By:  Joel Kiff

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Matrix : Soil

Lab Number : 22373-16



Report Number : 22373

Date : 10/7/2001

Project Name : **Lim Property**Project Number : **2808**Sample : **BH-D-17.5-18.0**

Matrix : Soil

Lab Number : 22373-19

Sample Date :9/17/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	7.8	0.25	mg/Kg	EPA 8260B	9/28/2001
Toluene	22	0.25	mg/Kg	EPA 8260B	9/28/2001
Ethylbenzene	18	0.25	mg/Kg	EPA 8260B	9/28/2001
Total Xylenes	71	1.0	mg/Kg	EPA 8260B	9/28/2001
Methyl-t-butyl ether (MTBE)	< 0.25	0.25	mg/Kg	EPA 8260B	9/28/2001
TPH as Gasoline	1200	50	mg/Kg	EPA 8260B	9/28/2001
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	9/28/2001
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	9/28/2001
TPH as Diesel	1500	1.0	mg/Kg	M EPA 8015	10/1/2001
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	10/1/2001
1-Chlorooctadecane (Diesel Surrogate)	112		% Recovery	M EPA 8015	10/1/2001


 Approved By: Joel Kiff



Report Number : 22373

Date : 10/7/2001

Project Name : **Lim Property**Project Number : **2808**Sample : **BH-E-17.0-17.5**

Matrix : Soil

Lab Number : 22373-23

Sample Date : 9/17/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.12	0.0050	mg/Kg	EPA 8260B	9/28/2001
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/28/2001
Ethylbenzene	0.17	0.0050	mg/Kg	EPA 8260B	9/28/2001
Total Xylenes	0.020	0.010	mg/Kg	EPA 8260B	9/28/2001
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/28/2001
TPH as Gasoline	4.0	1.0	mg/Kg	EPA 8260B	9/28/2001
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	9/28/2001
4-Bromofluorobenzene (Surr)	96.7		% Recovery	EPA 8260B	9/28/2001
TPH as Diesel	2.2	1.0	mg/Kg	M EPA 8015	10/1/2001
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	10/1/2001
1-Chlorooctadecane (Diesel Surrogate)	116		% Recovery	M EPA 8015	10/1/2001

Approved By:  Joel Kiff

Report Number : 22373

Date : 10/7/2001

Project Name : **Lim Property**

Project Number : **2808**

22373 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/27/2001
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/27/2001
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/27/2001
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/27/2001
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/27/2001
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	9/27/2001
Toluene - d8 (Surr)	96.4		% Recovery	EPA 8260B	9/27/2001
4-Bromofluorobenzene (Surr)	94.1		% Recovery	EPA 8260B	9/27/2001



Approved By: Joel Kiff

Report Number : 22373

Date : 10/7/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Lim Property**

Project Number : **2808**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	22491-34	<0.0050	0.0371	0.0395	0.00722	0.0127	mg/Kg	EPA 8260B	9/29/2001	19.4	32.2	49.2	70-130	25
Toluene	22491-34	<0.0050	0.0371	0.0395	0.0157	0.0250	mg/Kg	EPA 8260B	9/29/2001	142.2	63.2	39.7	70-130	25
Tert-Butanol	22491-34	<0.0050	0.186	0.198	0.161	0.176	mg/Kg	EPA 8260B	9/29/2001	187.0	89.3	2.62	70-130	25
Methyl-t-Butyl Ether	22491-34	<0.0050	0.0371	0.0395	0.0347	0.0377	mg/Kg	EPA 8260B	9/29/2001	193.4	95.4	2.09	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



Report Number: 22373

Date: 10/7/2001

QC Report : Laboratory Control Sample (LCS)

Project Name : **Lim Property**

Project Number : **2808**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0385	mg/Kg	EPA 8260B	9/27/2001	88.9	70-130
Toluene	0.0385	mg/Kg	EPA 8260B	9/27/2001	87.6	70-130
Tert-Butanol	0.193	mg/Kg	EPA 8260B	9/27/2001	92.0	70-130
Methyl-t-Butyl Ether	0.0385	mg/Kg	EPA 8260B	9/27/2001	90.8	70-130

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Approved By:

Joel Kiff

 Joel Kiff

Report Number : 22373

Date : 10/7/2001

Project Name : **Lim Property**

Project Number : **2808**

22373 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/2/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	10/2/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/2/2001
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	10/2/2001
4-Bromofluorobenzene (Surr)	97.1		% Recovery	EPA 8260B	10/2/2001



Approved By: Joel Kiff

Report Number : 22373

Date : 10/7/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : Lim Property

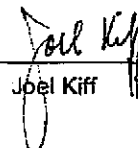
Project Number : 2808

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	22406-01	<0.50	19.4	19.3	19.9	20.1	ug/L	EPA 8260B	10/2/2001	102	104	1.89	70-130	25
Toluene	22406-01	<0.50	19.4	19.3	19.7	19.8	ug/L	EPA 8260B	10/2/2001	101	103	1.34	70-130	25
Tert-Butanol	22406-01	<5.0	97.3	96.3	74.5	91.6	ug/L	EPA 8260B	10/2/2001	76.6	95.1	21.6	70-130	25
Methyl-t-Butyl Ether	22406-01	<0.50	19.4	19.3	19.0	19.2	ug/L	EPA 8260B	10/2/2001	197.5	99.8	2.26	70-130	25

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Approved By: Joel Kiff



QC Report : Laboratory Control Sample (LCS)

Report Number : 22373

Date : 10/7/2001

Project Name : **Lim Property**

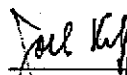
Project Number : **2808**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	9/28/2001	106	70-130
Toluene	20.0	ug/L	EPA 8260B	9/28/2001	106	70-130
Tert-Butanol	100	ug/L	EPA 8260B	9/28/2001	109	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	9/28/2001	99.6	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:


Joel Kiff

Report Number : 22373

Date : 10/7/2001

Project Name : **Lim Property**

Project Number : **2808**

22373 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	9/30/2001
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	9/30/2001
1-Chlorooctadecane (Diesel Surrogate)	107		% Recovery	M EPA 8015	9/30/2001



Approved By: Joel Kiff

Report Number : 22373

Date : 10/7/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : Lim Property

Project Number : 2808

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
TPH as Diesel	22373-08	<1.0	20.0	20.0	22.2	22.0	mg/Kg	M EPA 8015	9/30/2001	111	110	0.793	60-140	25

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Joel Kiff

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Date : 10/7/2001

QC Report : Laboratory Control Sample (LCS)

Project Name : **Lim Property**

Project Number : **2808**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH as Diesel	20.0	mg/Kg	M EPA 8015	9/30/2001	111	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:



 Joel Kiff

Report Number : 22373

Date : 10/7/2001

Project Name : **Lim Property**

Project Number : **2808**

22373 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	9/26/2001
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	9/26/2001



Approved By: Joel Kiff

Report Number : 22373

Date : 10/7/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Lim Property**

Project Number : **2808**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
TPH as Diesel	Blank	<50	1000	1000	1280	1280	ug/L	M EPA 8015	9/26/2001	128	128	0.00	70-130	25

KIFF ANALYTICAL, LLC
 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By: Joel Kiff
 Joel Kiff

Aqua Science Engineers, Inc.
 208 W. El Pintado Road
 Danville, CA 94526
 (925) 820-9391
 FAX (925) 837-4853

Chain of Custody 22373

PAGE 1 OF 3

SAMPLER (SIGNATURE) E. [Signature] (PHONE NO.) _____ PROJECT NAME Lim Property JOB NO. 2808
 ADDRESS 250 8th street, Oakland, CA

ANALYSIS REQUEST
 SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTDE & BTEX (EPA 5050/5010/15-6020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LIFT METALS (5) (EPA 6010+7000)	CATION METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G/BTEX/5 OXY'S (EPA 8260)	TPH-G/BTEX/7 OXY'S / HYOCS (EPA 8260)	Composite			
																					10/1d		
BH-A	9/17	840	Water	5	X	X																10	
BH-B	9/17	919	Water	5	X	X																	20
BH-C	9/17	1015	Water	6	X	X																	30
BH-D	9/17		Water	6	X	X																	40
BH-E	9/17	1230	Water	5	X	X																	50
BH-A-4.5-50	9/17	806	soil	1																X			60
BH-A-9.5-10.0	9/17	810	soil	1																X			70
BH-A-14.5-15.0	9/17	814	soil	1	X	X																	80
BH-A-19.5-20.0	9/17	820	soil	1																X			90
BH-B-4.5-5.0	9/17	857	soil	1																X			100
BH-B-9.5-10	9/17	901	soil	1																X			110

RELINQUISHED BY:
[Signature] 10:30
 (signature) (time)
Riddleford 9/18/01
 (printed name) (date)
 Company-
ASE

RECEIVED BY:
 (signature) (time)
 (printed name) (date)
 Company-

RELINQUISHED BY:
 (signature) (time)
 (printed name) (date)
 Company-

RECEIVED BY LABORATORY:
[Signature] 10:25
 (signature) (time)
JOHN CURTIS 10/9/01
 (printed name) (date)
 Company-
Kill Analytical

COMMENTS:
 TURN AROUND TIME
 STANDARD 24H 48H 72H
 OTHER:

Aqua Science Engineers, Inc.
 208 W. El Pintado Road
 Danville, CA 94526
 (925) 820-9391
 FAX (925) 837-4853

Chain of Custody 22373

PAGE 2 OF 3

SAMPLER (SIGNATURE) *[Signature]* (PHONE NO.) _____ PROJECT NAME Lim Property JOB NO. 2808
 ADDRESS 250 5th Street, Oakland, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS: _____

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & DTEX (EPA 502/D/8015-8020)	TPH-DIESEL (EPA 5510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	FURGEABLE HALOCARBONS (EPA 6011/8010)	VOLATILE ORGANICS (EPA 621/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LIFT METALS (5) (EPA 6010-7000)	CAM 17 METALS (EPA 6010/4000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-GIBTEX/5 OXY'S (EPA 8260)	TPH-GIBTEX/7 OXY'S / HYOC'S (EPA 8260)	COMPOSITE	
BH-B-13.5-14.0	9/17	906	Soil	1	X		X														
BH-C-4.5-5.0	9/17	949	Soil	1																X	
BH-C-9.5-10.0	9/17	950	Soil	1																X	
BH-C-14.5-15.0	9/17	951	Soil	1																X	
BH-C-17.5-15.0	9/17	1000	Soil	1	X		X														
BH-D-4.5-5.0	9/17	1108	Soil	1																X	
BH-D-9.5-10.0	9/17	1112	Soil	1																X	
BH-D-17.5-18.0	9/17	1120	Soil	1	X		X														
BH-E-4.5-5.0	9/17	1152	Soil	1																X	
BH-E-9.5-10.0	9/17	1155	Soil	1																X	
BH-E-13.5-14.1	9/17	1159	Soil	1																X	

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24

RELINQUISHED BY: <i>[Signature]</i> 10:25 (signature) (time)	RECEIVED BY: _____ (signature) (time)	RELINQUISHED BY: _____ (signature) (time)	RECEIVED BY LABORATORY: <i>[Signature]</i> / 10:25 (signature) (time)	COMMENTS:
<i>E. Padilla</i> @ 1/18/01 (printed name) (date)	_____ (printed name) (date)	_____ (printed name) (date)	JOHN CUTLER / 09/18/01 (printed name) (date)	TURN AROUND TIME STANDARD 24H 48H 72H
Company- <i>ASE</i>	Company-	Company-	Company- <i>Kill Analytical</i>	OTHER:

Aqua Science Engineers, Inc.
 208 W. El Pintado Road
 Danville, CA 94526
 (925) 820-9391
 FAX (925) 837-4853

Chain of Custody 22373

SAMPLER (SIGNATURE) <i>E. Radloff</i>	(PHONE NO.)	PROJECT NAME <u>Lim Property</u>	JOB NO. <u>2808</u>
ADDRESS <u>250 8th Street, Oakland, CA</u>			

ANALYSIS REQUEST					TPH-GAS / MTBE & BTEX (EPA 5040/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 6010/8010)	VOLATILE ORGANICS (EPA 6241/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 6251/8270)	OIL & GREASE (EPA 5580)	LIFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G/BTEX/5 OXY'S (EPA 8260)	TPH-G/BTEX/7 OXY'S/ HYOCS (EPA 8260)	COMPOSITE		
SPECIAL INSTRUCTIONS:	SAMPLE ID.	DATE	TIME	MATRIX																	NO. OF SAMPLES	
	BH-E-170-115	9/17	1202	Soil	1	X	X															23

RELINQUISHED BY: <i>E. Radloff</i> 10:25 (signature) (time)	RECEIVED BY: (signature) (time)	RELINQUISHED BY: (signature) (time)	RECEIVED BY LABORATORY: <i>John Cuttle</i> / 10:05 (signature) (time)	COMMENTS:
(printed name) (date)	(printed name) (date)	(printed name) (date)	JOHN CUTTLE / 09/18/01 (printed name) (date)	TURN AROUND TIME STANDARD 24H 48H 72H OTHER:
Company: ASE	Company:	Company:	Company: Kiff Analytical	