

3650 Mt. Diablo Blvd., Suite 200
Lafayette, CA 94549
(925) 283-9042
(925) 284-3552 Fax

Bonkowski & Associates, Inc.

Fax

To: Alameda County Health Services From: Cynthia Dittmar

Attn: Barney Chan

Fax: 510-337-9335 Pages: 6 including cover page

Phone: 510-567-6765 Date:

Re: 421 23rd Ave., Oakland CC:

- Urgent
- For Review
- Please Comment
- Please Reply
- Please Recycle

Mr. Chan:

Here are the results for soil samples taken at 421 23rd Ave, Oakland. If you should have any questions, you may reach me at 925-283-9042

Sincerely,

Cynthia Dittmar/km

AUG-16-98 SUN 02:20

KIFF ANALYTICAL

FAX NO. 9162974808

P. 01/05



Report Number : 12101
Date : 08/16/98

Tim Tatum
Bonkowski and Associates
3650 Mount Diablo Blvd., Suite 200
Lafayette, CA 94549

Subject : 6 Soil Samples
Project Name : L98174 Golden Gate Petroleum
Project Number : L98174 421 23rd Ave., Oakland.

Dear Mr. Tatum,

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 (# 2235). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,


Joel Kiff

AUG-16-98 SUN 02:20

KIFF ANALYTICAL

FAX NO. 9162974808

P. 02/05



Report Number : 12101
 Date : 08/16/98

Project Name : L98174
 Project Number : L98174

Sample : L98174-T1 E OX Matrix : Soil
 Sample Date : 08/15/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Methyl-t-butyl ether	0.15	0.0050	mg/Kg	EPA 8020	08/15/98
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	08/15/98
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	08/15/98
aaa-Trifluorotoluene (8020 Surrogate)	101		% Recovery	EPA 8020	08/15/98
aaa-Trifluorotoluene (Gasoline Surrogate)	101		% Recovery	M EPA 8015	08/15/98
1-Chlorooctadecane (Diesel Surrogate)	106		% Recovery	M EPA 8015	08/15/98

Sample : L98174-T1 W OX Matrix : Soil
 Sample Date : 08/15/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Methyl-t-butyl ether	0.068	0.0050	mg/Kg	EPA 8020	08/16/98
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	08/15/98
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	08/15/98
aaa-Trifluorotoluene (8020 Surrogate)	105		% Recovery	EPA 8020	08/15/98
aaa-Trifluorotoluene (Gasoline Surrogate)	105		% Recovery	M EPA 8015	08/15/98
1-Chlorooctadecane (Diesel Surrogate)	108		% Recovery	M EPA 8015	08/15/98

Approved By:  Joel Kiff

AUG-18-98 SUN 02:21

KIFF ANALYTICAL

FAX NO. 9162974808

P. 03/05



Report Number : 12101

Date : 08/18/98

Project Name : L98174

Project Number : L98174

Sample : L98174-T2 W OX

Matrix : Soil

Sample Date :08/16/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.010	0.0050	mg/Kg	EPA 8020	08/15/98
Toluene	0.0062	0.0050	mg/Kg	EPA 8020	08/15/98
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Total Xylenes	0.0068	0.0050	mg/Kg	EPA 8020	08/15/98
Methyl-t-butyl ether	7.3	0.020	mg/Kg	EPA 8020	08/16/98
TPH as Gasoline	8.2	1.0	mg/Kg	M EPA 8015	08/15/98
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	08/15/98
aaa-Trifluorotoluene (8020 Surrogate)	106		% Recovery	EPA 8020	08/15/98
aaa-Trifluorotoluene (Gasoline Surrogate)	104		% Recovery	M EPA 8015	08/15/98
1-Chlorooctadecane (Diesel Surrogate)	111		% Recovery	M EPA 8015	08/15/98

Sample : L98174-DI-1C

Matrix : Soil

Sample Date :08/16/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.35	0.20	mg/Kg	EPA 8020	08/15/98
Toluene	0.90	0.20	mg/Kg	EPA 8020	08/15/98
Ethylbenzene	1.4	0.20	mg/Kg	EPA 8020	08/15/98
Total Xylenes	2.8	0.20	mg/Kg	EPA 8020	08/15/98
Methyl-t-butyl ether	1.7	0.20	mg/Kg	EPA 8020	08/15/98
TPH as Gasoline	240	20	mg/Kg	M EPA 8015	08/15/98
TPH as Diesel	1400	20	mg/Kg	M EPA 8015	08/15/98
aaa-Trifluorotoluene (8020 Surrogate)	99.2		% Recovery	EPA 8020	08/15/98
aaa Trifluorotoluene (Gasoline Surrogate)	78.6		% Recovery	M EPA 8015	08/15/98
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	08/15/98

Approved By:  Joel Kiff

AUG-16-98 SUN 02:21

KIFF ANALYTICAL

FAX NO. 9162974808

P.04/05



Report Number : 12101

Date : 08/16/98

Project Name : L98174

Project Number : L98174

Sample : L98174-DI-2C

Matrix : Soil

Sample Date :08/15/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	08/15/98
Methyl-t-butyl ether	0.12	0.0050	mg/Kg	EPA 8020	08/15/98
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	08/15/98
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	08/15/98
aaa-Trifluorotoluene (8020 Surrogate)	100		% Recovery	EPA 8020	08/15/98
aaa-Trifluorotoluene (Gasoline Surrogate)	98.1		% Recovery	M EPA 8015	08/15/98
1-Chlorooctadecane (Diesel Surrogate)	108		% Recovery	M EPA 8015	08/15/98

Sample : L98174-DI-3C

Matrix : Soil

Sample Date :08/15/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.030	0.020	mg/Kg	EPA 8020	08/15/98
Toluene	0.12	0.020	mg/Kg	EPA 8020	08/15/98
Ethylbenzene	0.44	0.020	mg/Kg	EPA 8020	08/15/98
Total Xylenes	0.38	0.020	mg/Kg	EPA 8020	08/15/98
Methyl-t-butyl ether	0.13	0.020	mg/Kg	EPA 8020	08/15/98
TPH as Gasoline	87	5.0	mg/Kg	M EPA 8015	08/15/98
TPH as Diesel	86	1.0	mg/Kg	M EPA 8015	08/15/98
aaa-Trifluorotoluene (8020 Surrogate)	99.2		% Recovery	EPA 8020	08/15/98
aaa-Trifluorotoluene (Gasoline Surrogate)	103		% Recovery	M EPA 8015	08/15/98
1-Chlorooctadecane (Diesel Surrogate)	111		% Recovery	M EPA 8015	08/15/98

Approved By: Joel Kiff



720 Olive Drive, Suite 13
Davis, CA 95616

Lab: 916.297.4800
Fax: 916.297.4808

12101

Page 1 of 1

Project Manager: Jim Tatum
Bonkowski & Assoc

Phone No.: (925) 203-9042

Chain-of-Custody Record and Analysis Request

Company/Address:

FAX No.: (925) 284-3552

Analysis Request

Project Number: L98174 PO. No.:

Project Name:

Project Location: Oakland

Sample Signature: [Signature]

Sample Designation	Sampling		Container (Type/Amount)			Method Preserved				Matrix	BTEX (8020)	BTEX/TPH Gas/MTBE (8020/8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	EPA8010	EPA 8080 - Pesticides	EPA 8080 - PCBs	EPA 8240	EPA 8270	CAM - 17 Metals	Lead (7421/238.2)	Cd, Cr, Pb, Zn, Ni	W.E.T. (X)	TOTAL (X)	TAT	For Lab Use Only		
	Date	Time	VOA	SLEEVE	1L GLASS	600 ml	HCl	HNO ₃	ICE																		NONE	WATER/SOIL
L98174 - T1 Eox	8/15/98		/	/	/	/	/	/	/	S	/	/																
- T1 Wox																												
- T2 Wox																												
- DI-1C																												
- DI-2C																												
- DI-3C																												

Relinquished by:	Date:	Time:	Received by:	Remarks:
Relinquished by:	Date:	Time:	Received by:	Email address:
Relinquished by:	Date:	Time:	Received by Laboratory:	<input type="checkbox"/> doc <input type="checkbox"/> xls <input type="checkbox"/> txt <input type="checkbox"/> other

Distribution: White - Lab, Yellow - File, Pink - Originator

AUG-17-98 04:51P Bonkowski & ASSOC. FAX NO. 9162974808 P. 05/06
 AUG-16-98 SUN 02:22 KIFF ANALYTICAL 925 284 3552 Page 1 of 1