

**Chevron**

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facsimile transmittal

To: Scott Seery	Fax: 510 337-9335			
From: Phil Briggs	Date: 11/03/98			
Re: Soil Analysis Results	Pages: 7			
CC:				
Urgent	<input type="checkbox"/> For Review	<input type="checkbox"/> Please Comment	<input type="checkbox"/> Please Reply	<input type="checkbox"/> Estimate Request

Attached are revised Gas/BTEX lab data sheets that the lab sent me yesterday, for the soil analysis that were taken at SS# 98139, 16304 Foothill, San Leandro. On the lab cover sheet they note that a dilution factor was applied in error to the samples in question. The reporting limit dropped for samples: AN-14, AS-14, BN-14, BS-14, CS-14, P3-2, P4-2 and SP-2(A-D). The previous data sheets that I sent you on 11/2/98 were preliminary and will not be used in the final analytical lab report.

**SEQUOIA ANALYTICAL
Petaluma Laboratory**

Fax

To: Phil Briggs From: Debbie Leibensberger
Fax: (925) 842-8370 Pages: 6
Date: 11/2/98 CC: _____
Re: _____

Urgent For Review Please Comment Please Reply Please Recycle

• Comments:

Phil -
Revised GAS/BTEX results - a dilution
factor was applied in error to the
samples in question -
Final ~~etc~~ hard copy going out
today -
Debbie

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Sequoia Analytical

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Touchstone Developments PO Box 2554 Santa Rosa, CA 95405	Project: Chevron/General Project Number: 9-5139 Project Manager: Mr. Jeff Monroe	Sampled: 10/26/98 Received: 10/27/98 Reported: 11/2/98
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Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				P810399-01		Soil		
Gasoline	8100492	10/28/98	10/28/98		1000	3900	ug/kg	
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			90.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			94.3	"	
				P810399-02		Soil		
Gasoline	8100492	10/28/98	10/28/98		1000	ND	ug/kg	
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	36.4	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			89.0	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			90.0	"	
				P810399-03		Soil		
Gasoline	8100492	10/28/98	10/28/98		1000	ND	ug/kg	
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			89.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			90.0	"	
				P810399-04		Soil		
Gasoline	8100492	10/28/98	10/28/98		2000	4720	ug/kg	
Benzene	"	"	"		10.0	ND	"	
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	ND	"	
Xylenes (total)	"	"	"		20.0	ND	"	
Methyl tert-butyl ether	"	"	"		50.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			89.0	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			100	"	
				P810399-08		Soil		
Gasoline	8100513	10/28/98	10/28/98		200000	ND	ug/kg	

only reduced by factor of 2 too high

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*Refer to end of report for text of notes and definitions.



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Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
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Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
AN-14 (continued)								
				<u>P810399-08</u>				
Benzene	8100513	10/28/98	10/28/98	1000X still too high	1000	ND	ug/kg	
Toluene	"	"	"		1000	ND	"	
Ethylbenzene	"	"	"		1000	ND	"	
Xylenes (total)	"	"	"		2000	ND	"	
Methyl tert-butyl ether	"	"	"		5000	ND	"	8.9 ppm
Surrogate: a,a,a-Trifluorotoluene	"	"	"			105	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			104	%	
AS-14								
				<u>P810399-09</u>				
Gasoline	8100513	10/28/98	10/28/98	2X still too high	20000	28800	ug/kg	28.8
Benzene	"	"	"		100	ND	"	
Toluene	"	"	"		100	ND	"	
Ethylbenzene	"	"	"		100	ND	"	
Xylenes (total)	"	"	"		200	726	"	
Methyl tert-butyl ether	"	"	"		500	12700	"	12.7
Surrogate: a,a,a-Trifluorotoluene	"	"	"			102	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			97.3	%	
BN-14								
				<u>P810399-10</u>				
Gasoline	8100513	10/28/98	10/28/98	2X still too high	20000	154000	ug/kg	154
Benzene	"	"	"		100	ND	"	
Toluene	"	"	"		100	ND	"	
Ethylbenzene	"	"	"		100	875	"	
Xylenes (total)	"	"	"		200	9860	"	
Methyl tert-butyl ether	"	"	"		500	1410	"	1.41
Surrogate: a,a,a-Trifluorotoluene	"	"	"			101	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			99.3	%	
BS-14								
				<u>P810399-11</u>				
Gasoline	8100513	10/28/98	10/28/98	2X still too high	20000	ND	ug/kg	
Benzene	"	"	"		100	ND	"	
Toluene	"	"	"		100	ND	"	
Ethylbenzene	"	"	"		100	ND	"	
Xylenes (total)	"	"	"		200	ND	"	
Methyl tert-butyl ether	"	"	"		500	769	"	7.69
Surrogate: a,a,a-Trifluorotoluene	"	"	"			104	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			97.0	%	
CN-14								
				<u>P810399-12</u>				
Gasoline	8100492	10/28/98	10/28/98		1000	ND	ug/kg	
Benzene	"	"	"		5.00	ND	"	

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Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CN-14 (continued)				P810399-12			Soil	
Toluene	8100492	10/28/98	10/28/98		5.00	ND	ug/kg	
Ethylbenzene	"	"	"		5.00	6.22	"	
Xylenes (total)	"	"	"		10.0	17.7	"	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			93.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			96.3	"	↓ 2X
CS-14				P810399-13			Soil	
Gasoline	8100513	10/28/98	10/28/98		20000	ND	ug/kg	
Benzene	"	"	"		100	ND	"	still too high
Toluene	"	"	"		100	ND	"	
Ethylbenzene	"	"	"		100	ND	"	
Xylenes (total)	"	"	"		200	ND	"	
Methyl tert-butyl ether	"	"	"		500	7510	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			100	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			96.0	"	
P1-2				P810399-14			Soil	
Gasoline	8100492	10/28/98	10/28/98		2000	11400	ug/kg	
Benzene	"	"	"		10.0	434	"	
Toluene	"	"	"		10.0	359	"	
Ethylbenzene	"	"	"		10.0	268	"	
Xylenes (total)	"	"	"		20.0	1290	"	
Methyl tert-butyl ether	"	"	"		50.0	2470	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			88.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			90.0	"	
P2-2				P810399-15			Soil	
Gasoline	8100492	10/28/98	10/28/98		2000	ND	ug/kg	
Benzene	"	"	"		10.0	ND	"	too high
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	ND	"	
Xylenes (total)	"	"	"		20.0	ND	"	
Methyl tert-butyl ether	"	"	"		50.0	778	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			87.0	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			91.3	"	still too high ↓ 2X
P3-2				P810399-16			Soil	
Gasoline	8100513	10/28/98	10/28/98		200000	ND	ug/kg	
Benzene	"	"	"		1000	ND	"	
Toluene	"	"	"		1000	ND	"	1000X too high

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Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
P3-2 (continued)				P810399-16			Soil	
Ethylbenzene	8100513	10/28/98	10/28/98		1000	ND	ug/kg	
Xylenes (total)	"	"	"		2000	ND	"	
Methyl tert-butyl ether	"	"	"		5000	8610	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			108	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			107	"	
P4-2				P810399-17			Soil	
Gasoline	8100513	10/28/98	10/28/98		200000	1560000	ug/kg	
Benzene	"	"	"		1000	ND	"	
Toluene	"	"	"		1000	5240	"	
Ethylbenzene	"	"	"		1000	30680	"	
Xylenes (total)	"	"	"		2000	8460	"	
Methyl tert-butyl ether	"	"	"		5000	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			108	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			146	"	
P5-3				P810399-18			Soil	
Gasoline	8100492	10/28/98	10/28/98		1000	1060	ug/kg	
Benzene	"	"	"		5.00	28.0	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	7.49	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	283	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			84.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			85.0	"	
P6-3				P810399-19			Soil	
Gasoline	8100492	10/28/98	10/28/98		2000	13300	ug/kg	
Benzene	"	"	"		10.0	372	"	
Toluene	"	"	"		10.0	90.0	"	
Ethylbenzene	"	"	"		10.0	248	"	
Xylenes (total)	"	"	"		20.0	1150	"	
Methyl tert-butyl ether	"	"	"		50.0	2260	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			87.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			90.3	"	
UOSP-1(A-D)				P810399-20			Soil	
Gasoline	8100492	10/28/98	10/28/98		1000	ND	ug/kg	
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	

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Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>U0SP-1(A-D) (continued)</u>				<u>P810399-20</u>			<u>Soil</u>	
Xylenes (total)	8100492	10/28/98	10/28/98		10.0	ND	ug/kg	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			84.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			87.0	"	
<u>SP-1(A-D)</u>				<u>P810399-21</u>			<u>Soil</u>	
Gasoline	8100492	10/28/98	10/28/98		1000	ND	ug/kg	
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	87.9	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			82.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			86.0	"	
<u>SP-2(A-D)</u>				<u>P810399-22</u>			<u>Soil</u>	
Gasoline	8100513	10/28/98	10/28/98		20000	342000	ug/kg	
Benzene	"	"	"		100	ND	"	
Toluene	"	"	"		100	1300	"	
Ethylbenzene	"	"	"		100	3780	"	
Xylenes (total)	"	"	"		200	11100	"	
Methyl tert-butyl ether	"	"	"		500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"			48.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"			65.3	"	

2X
still too high