



PROTECTION

96 NOY -7 AM 9:51

November 5, 1996

Alameda County Health 1131 Harbor Bay Parkway, Room 250 Alameda, CA 94502

Attention: Susan Hugo

Re: SFOBB Toll Plaza Closures CALTRANS Maintenance Station

Dear Susan:

Enclosed are the following for the above referenced project:

- 1) Site Map
- 2) Chain of Custody
- 3) Sample Analysis Results

Please call should you have questions.

Sincerely,

Carole Green

cc: Michael Hilliard, CALTRANS

file

California Laboratory Services

CHAIN OF CUSTODY

LOG NO. 19743

														LOC	INO. T 3	143
CLIENT NAME	C. F. GREEN CORP	CLIENT	JOB NUM	8ER	5/5	Α	NAL	YSI:	S REC	QUESTE	FIELD	CONDIT	TIONS:			
ADDRESS	5088 HILLSDALE CIRCLE	81-0596	*** * * * *		PRE											
	EL DORADO HILLS, CA 95762	DESTINATI	ON LABO	RATORY	ES						COM	OSITE:				
PROJECT NAME		₩ CLS					e su			÷ .:		OGITE.				
PROJECT MANA	SFOBB TOLL PLAZA TANK CLOSURES AGER STEVE GREEN PHONE # (916) 939–91	– 3249 FI 99 RANCH	ITZGERAL 10 CORDO	D RD. DVA,CA	EBVATIV		4									
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SITE LOCATION	SFBB TOLL PLAZA						100	•							NOTE / FIELI	D READINGS
	CALTRANS MTC. STN	Ţ			,	星	工工	区	园	5	RS .	RS	X	§		
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REC'DAT LAP 9	ik May	DATE / TIJ	역 <u>(</u> (<u>)</u> (<u>)</u> () () () () () () () () () (<u> </u>		<u> </u>					CONDITION					* **
Yatti		19/12	1/46	-	2:0	00	PM	<u>"</u>								
SHIPPÉ	D VIA FED X	PS		OTHER							AIR B	LL#				

C. E. Green
P.O. Box 598
Folsom, CA 95763

09/24/96

Attention: Steve Green

Reference: Analytical Results

Project Name: SFOBB Toll Plaza Tank Closures

CLS ID No.: N4530 CLS Job No.: 804530

Project No.: 81-0596 Date Received: 09/12/96 Chain Of Custody: 19743

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
4	10 Days	TPH Diesel by DHS Method - M8015 (soil)
4	10 Days	TPH as Gasoline, BTEX and MTBE
5	10 Days	BTEX by EPA 8020

These samples were received by California Laboratory Services in a chilled, intact state and accompanied by a valid chain of custody document.

Calibrations for analytical testing have been performed in accordance to and pass the EPA's criteria for acceptability.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

A George Hampton Laboratory Director



Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015 Sonication, EPA Method 3550

Client: C. E. Green
P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96
Date Received: 09/12/96
Date Extracted: 09/19/96
Date Analyzed: 09/20/96
Date Reported: 09/23/96

Project No.: 81-0596 Contact: Steve Green

Phone: (916) 939-9199

Lab Contact: John Arndt

Lab ID No.: N4530

Job No.: N4530
Job No.: 804530
COC Log No.: 19743
Batch No.: 19059
Instrument ID: GC004
Analyst ID: JENNDC
Matrix: SOIL

ANALYTE

Sample Client	e I.D. Lab	TPH as Diesel [Rep. Limit] (Dilution)	TPH as Motor Oil [Rep. Limit] (Dilution)
B-1	6A	ND [50] (50)	190 [100] (50)
B-2	7A	(60) [200] (200)	1000 [400] (200)
C-1	8A	ND [10] (10)	62 [20] (10)
C-2	9A	ND [5.0] (5.0)	25 [10] (5.0)
Units		mg/kg	mg/kg

Analysis Report: TPH as Gasoline, BTEX and MTBE Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96 Date Received: 09/12/96
Date Extracted: 09/13/96
Date Analyzed: 09/16/96
Date Reported: 09/17/96
Client ID No.: A-1

Project No.: 81-0596

Contact: Steve Green
Phone: (916)939-9199

Lab Contact: John Arndt Lab ID No.: N4530-1A

Job No.: 804530 COC Log No.: 19743 Batch No.: 19032 Instrument ID: GC018 Analyst ID: JENNDC Matrix: SOIL

Analyte		CAS No.		urr Conc. ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene		95-49-8	1	00	106
Samp	le:	A-1			
Analyte	CAS	No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Toluene	71-4 108- 100-	1-04-4 13-2 -88-3 -41-4 0-20-7	ND ND ND 35 180	80 5.0 5.0 5.0 10	1.0 1.0 1.0 1.0



Analysis Report: TPH as Gasoline, BTEX and MTBE Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96
Date Received: 09/12/96
Date Extracted: 09/13/96 Date Analyzed: 09/16/96 Date Reported: 09/17/96 Client ID No.: A-2

Project No.: 81-0596 Contact: Steve Green Phone: (916) 939-9199

Lab Contact: John Arndt Lab ID No.: N4530-2A

Job No.: 804530 COC Log No.: 19743 Batch No.: 19032 Instrument ID: GC018 Analyst ID: JENNDC

Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	97

_____Sample: A-2

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Methyl t-butyl ether Benzene Toluene Ethylbenzene Xylenes, total	1634-04-4 71-43-2 108-88-3 100-41-4 1330-20-7	ND 53 470 110 400	80 5.0 25 5.0	1.0 1.0 5.0 1.0



Analysis Report: BTEX, EPA Method 8020
Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96
Date Received: 09/12/96
Date Extracted: 09/13/96

Date Analyzed: 09/16/96 Date Reported: 09/17/96 Client ID No.: B-1

Ethylbenzene

Xylenes, total

Project No.: 81-0596

Contact: Steve Green Phone: (916) 939-9199

1.0

Lab Contact: John Arndt

Lab ID No.: N4530-6A

Job No.: 804530
COC Log No.: 19743
Batch No.: 18032
Instrument ID: GC007
Analyst ID: JENNDC

ND

ИD

5.0

10

Matrix: SOIL

SURROGATE

Analyte		CAS No.		rr Conc. g/kg)	Surrogate Recovery (percent)
o-Chlorotoluene		95-49-8	10	0	114
	Sample:	B-1			
Analyte	CAS	No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Benzene Toluene	71-4 108-	13-2 -88-3	ND 8.0	5.0 5.0	1.0

100-41-4

1330-20-7



Analysis Report: BTEX, EPA Method 8020

Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96 Date Received: 09/11/96
Date Received: 09/12/96
Date Extracted: 09/13/96
Date Analyzed: 09/16/96
Date Reported: 09/17/96
Client ID No.: B-2

Project No.: 81-0596 Contact: Steve Green Phone: (916)939-9199

Lab Contact: John Arndt Lab ID No.: N4530-7A

Job No.: 804530
COC Log No.: 19743
Batch No.: 18032
Instrument ID: GC007
Analyst ID: JENNDC

Matrix: SOIL

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)		
o-Chlorotoluene	95-49-8	500	83		
Sample: B-2					

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Benzene	71-43-2	33	25	5.0
Toluene	108-88-3	460	25	5.0
Ethylbenzene	100-41-4	300	25	5.0
Xylenes, total	1330-20-7	1200	50	5.0



Analysis Report: BTEX, EPA Method 8020

Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96 Date Received: 09/12/96
Date Extracted: 09/13/96
Date Analyzed: 09/16/96 Date Reported: 09/17/96 Client ID No.: C-1

Toluene

Ethylbenzene

Xylenes, total

Project No.: 81-0596

Contact: Steve Green
Phone: (916) 939-9199

5.0

5.0

10

1.0

1.0

Lab Contact: John Arndt Lab ID No.: N4530-8A Job No.: 804530 COC Log No.: 19743 Batch No.: 18032 Instrument ID: GC007 Analyst ID: JENNDC

ND

ND

ND

Matrix: SOIL

SURROGATE

Analyte	C	AS No.		rr Conc. g/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	9	5-49-8	10	100	
	Sample: C	-1			
Analyte	CAS N	0.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Benzene	71-43	-2	ND	5.0	1.0

108-88-3

100-41-4

1330-20-7



Analysis Report: BTEX, EPA Method 8020

Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96 Date Received: 09/12/96
Date Extracted: 09/13/96
Date Analyzed: 09/16/96 Date Reported: 09/17/96 Client ID No.: C-2

Project No.: 81-0596

Contact: Steve Green Phone: (916)939-9199

Lab Contact: John Arndt Lab ID No.: N4530-9A

Job No.: 804530 COC Log No.: 19743 Batch No.: 18032 Instrument ID: GC007 Analyst ID: JENNDC Matrix: SOIL

SURROGATE

Analyte	CAS N		rr Conc. g/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49	-8 100)	110
	Sample: C-2			
		Results	Rep. Limit	Dilution

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)	Dilution (factor)
Benzene Toluene Ethylbenzene Xylenes, total	71-43-2 108-88-3 100-41-4 1330-20-7	ND 11 ND 21	5.0 5.0 5.0 10	1.0 1.0 1.0



Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015 Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96
Date Received: 09/12/96
Date Extracted: 09/13/96
Date Analyzed: 09/16/96
Date Reported: 09/17/96
Client ID No.: A-1

Project No.: 81-0596

Contact: Steve Green Phone: (916) 939-9199

Lab Contact: John Arndt

Lab Contact: John Arno
Lab ID No.: N4530-1A
Job No.: 804530
COC Log No.: 19743
Batch No.: 19032
Instrument ID: GC018
Analyst ID: JENNDC

Matrix: SOIL

Analyte		CAS No.		Surr Conc. (mg/kg)	Surrogate Recovery (percent)
o-Chlorotoluene		95-49-8		0.100	71 QC
	Sample:	A-1			
Analyte	CAS	No.	Results (mg/kg)		Dilution (factor)
TPH as Gasoline	N/A		ND	1.0	1.0

QC = Recovery data is not within standard QC limits. LCS recovery data validates methodology.

ND = Not detected at or above indicated Reporting Limit



Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015 Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96 Date Received: 09/12/96
Date Extracted: 09/13/96
Date Analyzed: 09/16/96 Date Reported: 09/17/96 Client ID No.: A-2

Lab Contact: John Arndt Lab ID No.: N4530-2A Job No.: 804530 COC Log No.: 19743 Batch No.: 19032 Instrument ID: GC018 Analyst ID: JENNDC

Matrix: SOIL

Project No.: 81-0596 Contact: Steve Green

Phone: (916) 939-9199

Analyte		CAS No.		urr Conc. mg/kg)	Surrogate Recovery (percent)
o-Chlorotoluene		95~49-8	0	.100	68 QC
	_ Sample:	A-2			
Analyte	CAS	No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
TPH as Gasoline	N/A		3.9	1.0	1.0

QC = Recovery data is not within standard QC limits. LCS recovery data validates methodology.

ND = Not detected at or above indicated Reporting Limit



Analysis Report: BTEX-Water; EPA Method 602

Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Date Sampled: 09/11/96 Date Received: 09/12/96
Date Extracted: 09/13/96
Date Analyzed: 09/13/96

Date Reported: 09/17/96 Client ID No.: W-1

Project: SFOBB Toll Plaza Tank Closures

Project No.: 81-0596 Contact: Steve Green Phone: (916)939-9199

Lab Contact: John Arndt
Lab ID No.: N4530-3A
Job No.: 804530
COC Log No.: 19743
Batch No.: 19026
Instrument ID: GC018
Analyst ID: JENNDC

Matrix: WATER

SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	200	99

Sample: W-1 _____

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Methyl t-butyl ether Benzene Toluene Ethylbenzene Xylenes, total	1634-04-4	ND	10	10
	71-43-2	250	3.0	10
	108-88-3	200	3.0	10
	100-41-4	1900	30	100
	1330-20-7	9200	60	100

Analysis Report: BTEX-Water; EPA Method 602 Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96 Date Sampled: 09/12/96
Date Received: 09/13/96
Date Extracted: 09/13/96
Date Analyzed: 09/13/96
Date Reported: 09/17/96
Client ID No.: W-2 Project No.: 81-0596

Contact: Steve Green
Phone: (916)939-9199

Lab Contact: John Arndt

Lab ID No.: N4530-4A Job No.: 804530 COC Log No.: 19743
Batch No.: 19026
Instrument ID: GC018
Analyst ID: JENNDC
Matrix: WATER

SURROGATE

Analyte	CAS :		Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-4	9-8	200	96
	Sample: W-2			
Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)
Methyl t-butyl ether Benzene Toluene Ethylbenzene Xylenes, total	1634-04- 71-43-2 108-88-3 100-41-4 1330-20-	180 120 1800	10 3.0 3.0 3.0 30 60	10 10 10 100 100



Analysis Report: BTEX-Water; EPA Method 602 Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96 Date Received: 09/12/96 Date Extracted: 09/13/96 Date Analyzed: 09/13/96

Date Reported: 09/17/96 Client ID No.: W-3

Project No.: 81-0596

Contact: Steve Green Phone: (916)939-9199

Lab Contact: John Arndt Lab ID No.: N4530-5A

Job No.: 804530 COC Log No.: 19743
Batch No.: 19026
Instrument ID: GC018
Analyst ID: JENNDC

Matrix: WATER

SI	RR	α	1Δ	TE

Analyte		CAS No.		ırr Conc. ıg/L)	Surrogate Recovery (percent)
o-Chlorotoluene		95-49-8	26).0	115
	Sample:	W-3			
Analyte	CAS	No.	Results (ug/L)	Rep. Limit (ug/L)	Dilution (factor)

Analyte	CAS No.	(ug/L)	(nd/r)	(facto
Benzene Toluene Ethylbenzene Xylenes, total	71-43-2 108-88-3 100-41-4 1330-20-7	0.78 8.1 5.4 20	0.30 0.30 0.30 0.60	1.0 1.0 1.0

California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015 Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96 Date Sampled: 09/11/96
Date Received: 09/12/96
Date Extracted: 09/13/96
Date Analyzed: 09/16/96
Date Reported: 09/17/96
Client ID No.: A-1

Lab Contact: John Arndt Lab ID No.: N4530-1A Job No.: 804530
COC Log No.: 19743
Batch No.: 19032
Instrument ID: GC018
Analyst ID: JENNDC

Project No.: 81-0596

Contact: Steve Green
Phone: (916)939-9199

Matrix: SOIL

Analyte	CAS No		Surr Conc. (mg/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-	.8	0.100	71 QC
Sample	e: A-1			
Analyte CA	AS No.	Results (mg/kg)		Dilution (factor)
TPH as Gasoline N/	'A	ND	1.0	1.0

QC = Recovery data is not within standard QC limits. LCS recovery data validates methodology.

ND = Not detected at or above indicated Reporting Limit

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015 Purge and Trap, EPA Method 5030

Client: C. E. Green P.O. Box 598

Folsom, CA 95763

Project: SFOBB Toll Plaza Tank Closures

Date Sampled: 09/11/96 Date Received: 09/12/96 Date Extracted: 09/13/96 Date Analyzed: 09/16/96 Date Reported: 09/17/96 Client ID No.: A-2 Project No.: 81-0596 Contact: Steve Green

Phone: (916)939-9199

Lab Contact: John Arndt Lab ID No.: N4530-2A Job No.: 804530 COC Log No.: 19743 Batch No.: 19032

Instrument ID: GC018 Analyst ID: JENNDC Matrix: SOIL

Analyte		CAS No.		urr Conc. mg/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	Sample:	95-49-8 A-2	0	.100	68 QC
Analyte	-	No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
TPH as Gasoline	N/A		3.9	1.0	1.0

QC = Recovery data is not within standard QC limits. LCS recovery data validates methodology.

ND = Not detected at or above indicated Reporting Limit