



February 12, 1992

Ms. Pam Evans
Department of Environmental Health
80 Swan Way, Room 210
Oakland, CA 94621

RE: STOCKPILED SOIL SAMPLING AT 21065 FOOTHILL BOULEVARD IN
HAYWARD, CALIFORNIA

Dear Ms. Evans:

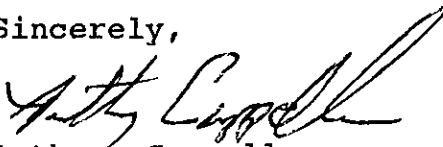
On December 12, 1991, DECON sampled 100 cubic yards of stockpiled soil at 21065 Foothill Boulevard in Hayward, California at a rate of one sample for every 50 cubic yards producing two composite samples. The samples were shipped to:

Sequoia Analytical
680 Chesapeake Drive
Redwood City, CA 94063

The samples were analyzed for TPH-gasoline, TPH-diesel and BTX&E. The results and a copy of the chain of custody are enclosed.

If you have any questions regarding this project, please feel free to call me at (510) 732-6444.

Sincerely,


Anthony Cappella
Project Manager

AC/emt

cc: Roy R. Breitenbach

Enclosures

92 FEB 13 1992



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

DECON Environmental Services
26102 Eden Landing Road, Suite 4
Hayward, CA 94545

Client Project ID: 669, Breitenbach

Attention: Anthony Cappella

QC Sample Group: 112-3167

Reported: Dec 30, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl- benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	M. Nipp	M. Nipp	M. Nipp	M. Nipp
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Dec 20, 1991	Dec 20, 1991	Dec 20, 1991	Dec 20, 1991
QC Sample #:	GBLK122091	GBLK122091	GBLK122091	GBLK122091
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.20	0.20	0.20	0.60
Conc. Matrix Spike:	0.21	0.19	0.18	0.53
Matrix Spike % Recovery:	105	95	90	88
Conc. Matrix Spike Dup.:	0.20	0.18	0.18	0.53
Matrix Spike Duplicate % Recovery:	100	90	90	88
Relative % Difference:	4.9	5.4	0.0	0.0

SEQUOIA ANALYTICAL

Christine Middleton
Christine L. Middleton
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



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DECON Environmental Services Client Project ID: 669, Breitenbach
 26102 Eden Landing Road, Suite 4
 Hayward, CA 94545
 Attention: Anthony Cappella QC Sample Group: 1123166,67

Reported: Dec 30, 1991

QUALITY CONTROL DATA REPORT

ANALYTE

Diesel

Method: EPA 8015
 Analyst: R. Lee
 Reporting Units: mg/kg
 Date Analyzed: Dec 19, 1991
 QC Sample #: DBLK121891

Sample Conc.: N.D.

Spike Conc.
 Added: 15

Conc. Matrix
 Spike: 13

Matrix Spike
 % Recovery: 87

Conc. Matrix
 Spike Dup.: 12

Matrix Spike
 Duplicate
 % Recovery: 80

Relative
 % Difference: 8.0

SEQUOIA ANALYTICAL

Christine Middleton
 Christine L. Middleton
 Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

1123166.DEC <5>



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680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

DECON Environmental Services
26102 Eden Landing Road, Suite 4
Hayward, CA 94545

Client Project ID: 669, Braitenbach

Attention: Anthony Cappella

QC Sample Group: 112-3166

Reported: Dec 30, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl- benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	A. Mirattab	A. Mirattab	A. Mirattab	A. Mirattab
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Dec 22, 1991	Dec 22, 1991	Dec 22, 1991	Dec 22, 1991
QC Sample #:	GBLK122091 MS/MSD	GBLK122091 MS/MSD	GBLK122091 MS/MSD	GBLK122091 MS/MSD
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.20	0.20	0.20	0.60
Conc. Matrix Spike:	0.22	0.21	0.21	0.62
Matrix Spike % Recovery:	110	105	105	103
Conc. Matrix Spike Dup.:	0.22	0.21	0.21	0.60
Matrix Spike Duplicate % Recovery:	110	105	105	100
Relative % Difference:	0.0	0.0	0.0	3.3

SEQUOIA ANALYTICAL

Christine L. Middleton
Christine L. Middleton
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

DECON Environmental Services	Client Project ID: 669, Breitenbach	Sampled: Dec 18, 1991
26102 Eden Landing Road, Suite 4	Matrix Descript: Soil	Received: Dec 18, 1991
Hayward, CA 94545	Analysis Method: EPA 3550/8015	Extracted: Dec 19, 1991
Attention: Anthony Cappella	First Sample #: 112-3166	Analyzed: Dec 20, 1991
		Reported: Dec 30, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
112-3166	669-SP1	N.D.
112-3167	669-SP2	N.D.

Detection Limits:

1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Christine L. Middleton
Christine L. Middleton
Project Manager

1123166.DEC <2>



SEQUOIA ANALYTICAL

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 (415) 364-9600 • FAX (415) 364-9233

DECON Environmental Services	Client Project ID: 669, Breitenbach	Sampled: Dec 18, 1991
26102 Eden Landing Road, Suite 4	Matrix Descript: Soil	Received: Dec 18, 1991
Hayward, CA 94545	Analysis Method: EPA 5030/8015/8020	Analyzed: Dec 20, 1991
Attention: Anthony Cappella	First Sample #: 112-3166	Reported: Dec 30, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons				
		mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
112-3166	669-SP1	N.D.	N.D.	N.D.	N.D.	N.D.
112-3167	669-SP2	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	1.0	0.0050	0.0050	0.0050	0.0050
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
 Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Christine L. Middleton
 Christine L. Middleton
 Project Manager

1123166.DEC <1>



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-1123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 54279
CLIENT: Decon Environmental Services
CLIENT JOB NO.: BREITENBACH

DATE RECEIVED: 10/31/91
DATE REPORTED: 11/07/91

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 5030 and 8020

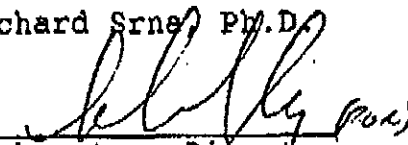
LAB #	Sample Identification	Concentration(ug/kg)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
1	669-01	ND<3	9	5	160
2	669-02	320	11000	2700	85000

ug/kg - parts per billion (ppb)

Minimum Detection Limit in Soil: 3.0ug/kg

QAQC Summary:

Daily Standard run at 20ug/L: %DIFF 8020 = <15%
MS/MSD Average Recovery = 92% : Duplicate RPD = 2.9%

Richard Srne, Ph.D.

Laboratory Director

92 DEC 15 2:11:18 PM '91



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 54279
CLIENT: Decon Environmental Services
CLIENT JOB NO.: BREITENBACH

DATE RECEIVED: 10/31/91
DATE REPORTED: 11/07/91

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 5030 and 8015


LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range
1	669-01	4
2	669-02	1300

mg/kg - parts per million (ppm)
Minimum Detection Limit for Gasoline in Soil: 1mg/kg

QAQC Summary:

Daily Standard run at 2mg/L: %DIFF Gasoline = <15%
MS/MSD Average Recovery = 92%; Duplicate RPD = 3.1%

Richard Srna, Ph.D.


Laboratory Director



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

RECEIVED

NOV 26 1991

Ans'd.....

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 84357
CLIENT: Decon Environmental Services
CLIENT JOB NO.: 669

DATE RECEIVED: 11/11/91
DATE REPORTED: 11/18/91
DATE SAMPLED : 11/11/91

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by MODIFIED EPA SW-846 METHOD 5030 and 8015

LAB #	Sample Identification	Concentration (mg/Kg) Gasoline Range
1	669-1111-1	ND<1
2	669-1111-2	ND<1
3	669-1111-3	ND<1
4	669-1111-4	ND<1
5	669-1111-5	ND<1
6	669-1111-6	ND<1

mg/Kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 1 mg/Kg

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = <15
MS/MSD Average Recovery = 98%: Duplicate RPD = 3

Richard Srna, Ph.D.

Robert W. Srna
Laboratory Director



Superior Precision Analytical, Inc.

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NOV 26 1991

Ans'd.....

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 84357
CLIENT: Decon Environmental Services
CLIENT JOB NO.: 669

DATE RECEIVED: 11/11/91
DATE REPORTED: 11/18/91
DATE SAMPLED: 11/11/91

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 5030 and 8020

LAB #	Sample Identification	Concentration(ug/Kg)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
1	669-1111-1	ND<3	ND<3	ND<3	ND<3
2	669-1111-2	ND<3	ND<3	ND<3	ND<3
3	669-1111-3	ND<3	ND<3	ND<3	ND<3
4	669-1111-4	ND<3	ND<3	ND<3	ND<3
5	669-1111-5	ND<3	ND<3	ND<3	ND<3
6	669-1111-6	ND<3	ND<3	ND<3	ND<3

ug/Kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/Kg

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%
MS/MSD Average Recovery = 90%: Duplicate RPD = < 1

Richard Srna, Ph.D.

Laboratory Director

PROJECT NO.		PROJECT NAME				PARAMETERS										INDUSTRIAL HYGIENE SAMPLE	Y				
669-1111		Breitenbach															N				
SAMPLERS: (Signature)					(Printed)					NO. OF CONTAINERS BLEX TPH (900)										REMARKS	
Tom Reese					Tom Reese																
FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION																
669-1111-1	11-11	11:00		✓	W st excavat 16'					1 X X											
669-1111-2	11-11	11:00		✓	E st excavat 16'					1 X X											
669-1111-3	11-11	11:00		✓	N th wall 6'					1 X X											
669-1111-4	11-11	11:00		✓	S th wall 6'					1 X X											
669-1111-5	11-11	11:00		✓	E st wall 6'					1 X X											
669-1111-6	11-11	11:00		✓	W st wall 6'					1 X X											
										Please Initial: _____										JWF	
										Samples stored in ice: _____											
										Appropriate containers: _____											
										Samples preserved: _____											
										VOA's without headspace: _____											
										Comments: _____											
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)											
Tom Reese		11-11 11:00		Ernie Walters		Ernie Walters		11/11/91													
(Printed)				(Printed)		(Printed)				(Printed)											
Tom Reese		Mayd. - DECON ENV		ERNE WALTERS		ERNE WALTERS															
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks													
Tom Reese		11-11 1535		Ernie Walters		11/11 15:40pm															
(Printed)				(Printed)																	
				Robert Walters		11/19/91		Standard T.A.T.													

RECEIVED
 NOV 26 1991
 Ans #

CHAIN OF CUSTODY REPORT

2F# 54279

RECEIVED NOV 11 1991

JOB NUMBER AND NAME: Breitenbach Tank 669					ANALYSIS REQUESTED					TURNAROUND TIME: 5 - Day	
REPORT AND BILL TO: DECON Environmental Services, Inc. 26102 Eden Landing Road, Suite 4 Hayward, CA 94545 (510) 732-6444					B.T.X.E. TPH - GAS						
SAMPLER: Anthony Cappella			DATE: 10/30/91								
SAMPLE ID#/STATION	SAMPLE DESCRIPTION	CONTAINERS NUMBER	TYPE*	SAMPLING TIME/DATE							REMARKS
669-01	Tank Bottom East	1	G	10/30	X	X					
669-02	Tank Bottom West	1	G	10/30	X	X					
Please initial: <u>KAC</u> Samples stored in ice. <input checked="" type="checkbox"/> Appropriate containers. <input checked="" type="checkbox"/> Samples preserved. <input checked="" type="checkbox"/> VOA without headspace. <input checked="" type="checkbox"/> Comments:											
RELINQUISHED BY: A. Cappella			DATE: 10/30/91	TIME: 1420	RECEIVED BY: Elizabeth Totah			Laboratory Use Only: Were samples:			
RELINQUISHED BY: Elizabeth Totah			DATE: 10/31/91	TIME: 3:00	RECEIVED BY: J. O'Connell X694			preserved/on ice?	Yes	No	
RELINQUISHED BY: J. O'Connell X694			DATE: 10-31-91	TIME: 1529	RECEIVED IN LAB BY: Elizabeth Totah			in good condition?			
								labeled?			

* G = Grab C = Composite W = Wipe

C. Corral - 10-31-91 (16:50)
Taken day of Tank Pull - P.C.

only A Nojpn 10/31/91
(Expres IT Corner)