

fax

SEMCO

James C. Bateman Petroleum Services, Inc.
1217 South 7th Street, Modesto, CA 95351
License #449864 A, B, C61/D40

(209) 524-8653 FAX: (209) 524-0503

Date:

12/13/95

To:

Eva Chu

Firm:

Alameda County

Fax #:

(510) 377-9335

Phone #:

From:

Doug Flaming

Subject:

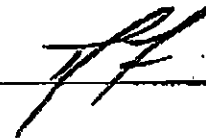
Pages:

7 incl. Cover

Message:

Eva,

We already had P.N.A. results from tank
Removal Activity. Pls call me to discuss



P. 35



Chain of Custody/Request for Analysis

(415) 588-9652

Client: SEMCO						Phone: (209) 524-9653								Report to: DOUG FLEMING							Turnaround Time			
Mailing Address: SEMCO 1217 S. 7TH ST. MODESTO, CA. 95351												Billing to: SEMCO - MODESTO							8 Hr.		24 Hr.			
Site Address: 1347 PARK ST - ALAMEDA												PO # / Billing Reference: 95-4468							40 Hr.		5 Days			
Sampler: RANDY McMANUS																		Other						
Sample ID:		Sample Description		Container # / type		Sampling Time/Date		ANALYSIS REQUESTED												Remarks				
								TPH-D	TPH-G	BTEX	O&G	PNA	RCS	LEAD										
#1		SOUTH END II'		1 TUBE		11-21		X	X	X	X	X	X	X	(C)									
#2		NORTH END II'		1 TUBE		{		X	X	X	X	X	X	X										
#3		CENTER IV'		1 TUBE		{		X	X	X	X	X	X	X										
#4	"	STACKPILE		{		{		X	X	X	X	X	X	X	CONF R									
#5		{		{		{		X	X	X	X	X	X	X										
#6		{		{		{		X	X	X	X	X	X	X										
#7		{		{		{		X	X	X	X	X	X	X										
													HOLD	HOLD										
Relinquished by: Randy McManus						Date: 11-22-75 Time: 10:30 AM						Received by: J. L. Kase						SAIL						
Relinquished by:						Date: Time:						Received by:						Weir samples Preserved ?						
Relinquished by:						Date: Time:						Received in lab by:						In good condition ?						



Superior

Analytical Laboratory

NORTH STATE ENVIRONMENTAL

Attn: JOHN MURPHY

Project 95-611

Reported on December 5, 1995

Polynuclear Aromatic Hydrocarbons by SW-846 Methods 8310/3550

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
20541-01	SOUTH END 11'	Soil	5000.0	-
20541-02	NORTH END 11'	Soil	5000.0	-
20541-03	CENTER 14'	Soil	2.0	-
20541-04	COMP STOCKPILE	Soil	5000.0	-

RESULTS OF ANALYSIS

Compound	20541-01		20541-02		20541-03		20541-04	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Naphthalene	NDPT	1000000	NDPT	1000000	ND	200	NDPT	1000000
Acenaphthylene	ND	1000000	ND	1000000	ND	200	ND	1000000
Acenaphthene	ND	1000000	ND	1000000	ND	200	ND	1000000
Fluoranthene	ND	50000	ND	50000	ND	10	ND	50000
Phenanthrene	ND	250000	ND	250000	ND	50	ND	250000
Anthracene	ND	250000	ND	250000	ND	50	ND	250000
Fluorene	ND	100000	ND	100000	ND	20	ND	100000
Pyrene	ND	50000	ND	50000	ND	10	ND	50000
Chrysene	ND	50000	ND	50000	ND	10	ND	50000
Benzo(a)Anthracene	ND	50000	ND	50000	ND	10	ND	50000
Benzo(b)Fluoranthene	ND	25000	ND	25000	ND	6	ND	25000
Benzo(k)Fluoranthene	ND	25000	ND	25000	ND	6	ND	25000
Benzo(a)Pyrene	ND	25000	ND	25000	ND	6	ND	25000
Indeno(1,2,3)Pyrene	ND	50000	ND	50000	ND	10	ND	50000
Dibenzo(a,h)Anthracene	ND	50000	ND	50000	ND	10	ND	50000
Benzo(g,h,i)Perylene	ND	50000	ND	50000	ND	10	ND	50000

>> Surrogate Recoveries (%)

1-Fluoronaphthene

NDBB

NDBB

59

NDBB

**Superior****Analytical Laboratory**

Polynuclear Aromatic Hydrocarbons by SW-846 Methods 8310/1350

Quality Assurance and Control Data

Laboratory Number: 20541

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (ug/Kg)						
BL031.64 02 / 03 - Laboratory Control Spikes						
Naphthalene		670	690/700	103/104	70-130	1
Acenaphthylene		670	580/580	87/87	70-130	0
Acenaphthene		670	580/640	87/95	70-130	10
Phenanthrene		670	650/700	97/104	70-130	7
Anthracene		670	600/640	90/96	70-130	6
Fluorene		670	620/670	93/100	70-130	7
Benzo(k)Fluoranthene		670	620/690	93/103	70-130	10

>> Surrogate Recoveries (%) <<

1-Fluoronaphthene

86/86

-

For Soil Matrix (ug/Kg)
BL031.64 04 / 05 - Sample Spiked: 20541 - 01

Naphthalene	ND	670	ND/ND	88/88	70-130	****
Acenaphthylene	ND	670	ND/ND	/	70-130	****
Acenaphthene	ND	670	ND/ND	/	70-130	****
Phenanthrene	ND	670	ND/ND	/	70-130	****
Anthracene	ND	670	ND/ND	/	70-130	****
Fluorene	ND	670	ND/ND	/	70-130	****
Benzo(k)Fluoranthene	ND	670	ND/ND	/	70-130	****

>> Surrogate Recoveries (%) <<

1-Fluoronaphthene

/

-

**Superior****Analytical Laboratory**

NORTH STATE ENVIRONMENTAL
Attn: JOHN MURPHY

Project 95-611
Reported on December 5, 1995

Polynuclear Aromatic Hydrocarbons by SW-846 Methods 8310/3550

Chronology

Laboratory Number 20541

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SOUTH END 11'	11/21/95	11/27/95	11/29/95	12/03/95	BL031.64	01
NORTH END 11'	11/21/95	11/27/95	11/29/95	12/03/95	BL031.64	02
CENTER 14'	11/21/95	11/27/95	11/29/95	12/03/95	BL031.64	03
COMP STOCKPILE	11/21/95	11/27/95	11/29/95	12/03/95	BL031.64	04

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BL031.64-01	Method Blank	MB	Soil	11/29/95	12/03/95
BL031.64-02	Laboratory Spike	LS	Soil	11/29/95	12/03/95
BL031.64-03	Laboratory Spike Duplicate	LSD	Soil	11/29/95	12/03/95
BL031.64-04	SOUTH END 11'	MS 20541-01	Soil	11/29/95	12/03/95
BL031.64-05	SOUTH END 11'	MSD 20541-01	Soil	11/29/95	12/03/95

**Superior****Analytical Laboratory**

Polynuclear Aromatic Hydrocarbons by SW-846 Methods 8310/3550

Quality Assurance and Control Data

Laboratory Number: 20541

Method Blank(s)

BL031.64-01

Conc. RL

ug/Kg

Naphthalene	ND	200
Acenaphthylene	ND	200
Acenaphthene	ND	200
Fluoranthene	ND	10
Phenanthrene	ND	50
Anthracene	ND	50
Fluorene	ND	20
Pyrene	ND	10
Chrysene	ND	10
Benzo (a) Anthracene	ND	10
Benzo (b) Fluoranthene	ND	5
Benzo (k) Fluoranthene	ND	5
Benzo (a) Pyrene	ND	5
Indeno (1,2,3) Pyrene	ND	10
Dibenzo (a,h) Anthracene	ND	10
Benzo (g,h,i) Perylene	ND	10

>> Surrogate Recoveries (%) <<

1-Fluoronaphthene 91

K.L.

**Superior****Analytical Laboratory****Narrative:**

Q - Spike concentrations diluted due to matrix interference.

PT - Sample is saturated with petroleum hydrocarbons. Sample detection limits raised due to matrix interference. Alumina column clean-up was performed on the sample.

BB - Surrogate was diluted out.

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)