

S E M C O
ENVIRONMENTAL CONTRACTORS & GENERAL ENGINEERING
LICENSE # 449864 A, B, C-61/D-40
1741 LESLIE STREET
SAN MATEO, CALIFORNIA 94402
(415) 572-8033

93 FEB 18 11:40

STD 1686

February 18, 1993

Alameda County
Health Care Agency
80 Swan Way, Room 200
Oakland, CA 94621

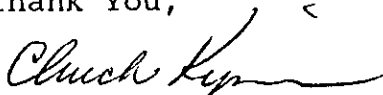
Re: 5521 Doyle Street, Emeryville

Attn: Susan Hugo

Pursuant to our conversation this morning at 8:00 a.m., please find enclosed the analytical results for the excavated materials resulting from the tank closures at the above referenced property.

As both tanks were constructed of fiberglass, all backfill material as per code and warranty was of pea gravel consistency. As per the request of Brian Healy, samples of the gravel were collected, properly sealed, iced and recorded on a chain of custody. Samples were transported to Superior Analytical for required and requested analysis. This sample is referenced and identified as #4-6K'S-Comp. As you can verify, the pea gravel was for all intent and purposes non-detected. We also discussed the notation of the apparent pin hole at the reinforced rib. The rib construction is originally made with a cardboard support frame structure over the fiberglass tank shell which is then laminated with fiberglass which forms the reinforcing rib. As this rib is not required to be liquid tight, particular attention is not given to being completely sealed. The liquid which was noted emanating from this point was simply baywater which had seeped into the rib.

Thank You,



Chuck Kiper
Vice-President
SEMCO-SAN MATEO

CK:jms

Enclosures

License # 449864
A,B, C-61/D40
Hazardous Substances Certification

(800) 831-2344
(415) 572-8033
(415) 572-9734 FAX

DEC 22 1992 SM DEC 22 1992



Superior Precision Analytical, Inc.

P.O. Box 1545 • Martinez, California 94553 • (510) 229-1590 / Fax (510) 229-0916

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 87454
CLIENT: SEMCO
CLIENT JOB NO.: CLEMENITTNA

DATE RECEIVED: 12/16/92
DATE REPORTED: 12/17/92
DATE SAMPLED : 12/15/92

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

LAB #	Sample Identification	Concentration (mg/kg)	
		Gasoline Range	Diesel Range
1	#4-6K'S-COMP	ND<10	ND<10

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 10 mg/kg
Method Detection Limit for Diesel in Soil: 10 mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 7%
RPD Diesel = 5%
MS/MSD Average Recovery = 112%: Duplicate RPD = 13%

Richard Srna, Ph.D.

(Signature)
Laboratory Director

LABORATORY NO.: 87454
CLIENT: SEMCO
CLIENT JOB NO.: CLEMENITINA

DATE RECEIVED: 12/16/92
DATE REPORTED: 12/17/92
DATE SAMPLED: 12/15/92

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

LAB #	Sample Identification	Concentration (mg/kg)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
1	#4-6K'S-COMP	ND<0.003	0.005	ND<0.003	0.007


mg/kg - parts per million (ppm)

Method Detection Limit in Soil: 0.003 mg/kg

QAQC Summary:

Daily Standard run at 20 µg/L: RPD = <15%
MS/MSD Average Recovery = 96%: Duplicate RPD = <8%

Richard Srna, Ph.D.


Laboratory Director

Certified Laboratories



JAN 14 1993

RECEIVED
JAN 18 1993

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

LABORATORY NO.: 55963
CLIENT: SEMCO
CLIENT JOB NO.: CLEMENTINA

DATE RECEIVED: 01/11/93
DATE REPORTED: 01/12/93

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

LAB #	Sample Identification	Concentration (ug/L)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
1	#1-H2O-10K	ND<0.3	ND<0.3	0.6	14
2	#2-H2O-8K	ND<0.3	ND<0.3	ND<0.3	ND<0.3

ug/L - parts per billion (ppb)

Method Detection Limit in Water: 50 ug/L

QAQC Summary:

Daily Standard run at 20 ug/L: RPD = <15%
MS/MSD Average Recovery = 91%: Duplicate RPD = 0.9%

Richard Srna, Ph.D.

Cecilia Y. Jorgensen (for)
Laboratory Manager

S E M C O
1741 LESLIE STREET
SAN MATEO, CA 94402

DATE: 12-17-92

TO: Alameda County

Please find enclosed the soil analysis for:

5521 Doyle St.
Emeryville

A final report containing manifests and sample locations will be forwarded to you after compilation of all receipts, documents and permits pertaining to this tank removal.

Sincerely, 

52 DEC 1 11 25 AM '92

Section I

CHAIN OF CUSTODY AND ANALYSIS REQUEST

LAB NO. _____

Consultant Name SEMCO
Office Location 1741 Leslie Rd. San Mateo, CA 94402
Fax No. (415) 572-9734
Project Manager Terry Hamilton
Phone (415) 572-8033

TURN AROUND TIME
 (Circle One)
 Same Day 72 Hrs
 24 Hrs 5 Day
 48 Hrs

SUPERIOR ANALYTICAL, INC.
 Martinez San Francisco
 415/229-1512 415/647-2081

Send Coolers to : Modesto San Mateo
 Project No. / P.O. No. CLMBEITWA

Sampler M. Tawson
 Regulatory Agency ALAMROH ENV. Health

Section II Analysis Request										Section III Sample Information					
Sample Identification	S=Soil W=Water Matrix	TPH - G & D	TPH - Low Level D	TPH - G	BTXE	O&G	3010	8240	Metals	Others * Subject to Subcontracting	Date	Time	Containers		Sampling Remarks
													Quantity	Pres.	Bioremediation <input type="checkbox"/>
1 #4-6K's-Comp	S	X			X						12/15/92	415	A		Composite in Lab
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

Relinquished by <u>[Signature]</u> Organization <u>SEMCO</u>	Date/Time <u>12/16/92 8:18am</u>	Received by <u>ALRO 161</u> Organization <u>Butler</u>	Please Initial _____ Samples Stored in Ice _____ Appropriate Containers _____ Samples Preserved _____ VOA's without Headpace _____ Comments _____
Relinquished by _____ Organization _____	Date/Time _____	Received by _____ Organization _____	
Relinquished by _____ Organization _____	Date/Time _____	Received by _____ Organization _____	



Superior Precision Analytical, Inc.

P.O. Box 1545 • Martinez, California 94553 • (510) 229-1590 / fax (510) 229-0916

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

LABORATORY NO.: 87454
CLIENT: SEMCO
CLIENT JOB NO.: CLEMENITTNA

DATE RECEIVED: 12/16/92
DATE REPORTED: 12/17/92
DATE SAMPLED : 12/15/92

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

LAB #	Sample Identification	Concentration (mg/kg)	
		Gasoline Range	Diesel Range
1	#4-6K'S-COMP	ND<10	ND<10

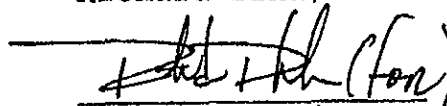
mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 10 mg/kg
Method Detection Limit for Diesel in Soil: 10 mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 7%
RPD Diesel = 5%
MS/MSD Average Recovery = 112%: Duplicate RPD = 13%

Richard Srna, Ph.D.


Laboratory Director

Certified Laboratories



Superior Precision Analytical, Inc.

P.O. Box 1545 • Martinez, California 94553 • (510) 229-1590 / fax (510) 229-0916

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

LABORATORY NO.: 87454
CLIENT: SEMCO
CLIENT JOB NO.: CLEMENITTNA

DATE RECEIVED: 12/16/92
DATE REPORTED: 12/17/92
DATE SAMPLED : 12/15/92

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

LAB #	Sample Identification	Concentration (mg/kg)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
1	#4-6K'S-COMP	ND<0.003	0.005	ND<0.003	0.007

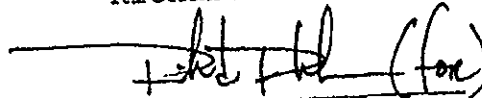
mg/kg - parts per million (ppm)

Method Detection Limit in Soil: 0.003 mg/kg

QAQC Summary:

Daily Standard run at 20 µg/L: RPD = <15%
MS/MSD Average Recovery = 96%: Duplicate RPD = <8%

Richard Srna, Ph.D.


Laboratory Director

22851

CHAIN OF CUSTODY AND ANALYSIS REQUEST

Lab No. 5538

Section I

Consultant Name SEMCO
 Office Location 1747 Leslie Rd. San Mateo, CA 94402
 Fax No. (415) 572-9734
 Project Manager TERRY HAMILTON
 Phone (415) 572 8032
 Send Coolers to : Modesto San Mateo
 Project No. / P.O. No. Clementina

TURN AROUND TIME
 (Circle One)
 Same Day _____ 72 Hrs _____
 24 Hrs _____ 5 Day _____
 48 Hrs _____

SUPERIOR ANALYTICAL, INC.
 Martinez San Francisco
 415/229-1512 415/647-2081

Sampler SEMCO M. TAUBMAN
 Regulatory Agency Alameda County BROWN

Section II		Analysis Request										Section III		Sample Information			
Sample Identification	S=Soil A=Air W=Water Matrix	TPH - G & D	TPH - Low Level D	TPH - G	BTXE	OMG	8010	8240	Metals	Others * Subject to Subcontracting	Total Pb	Date	Time	Containers		Sampling Remarks	
														Quantity	Pres.	Bioremediation	Contamination
1#1-D-SW-13'	S	X			X						X	12/10/92	250	1			
2#2-D-SE-13'	S	X			X						X	1	257	1			
3#3-G-NW-13'	S	X			X						X	1	301	1			
4#4-G-NE-13'	S	X			X						X	1	316	1			
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Relinquished by [Signature] Date/Time 12-10-92 1644
 Organization SEMCO
 Relinquished by _____ Date/Time _____
 Organization _____
 Relinquished by _____ Date/Time _____
 Organization _____

Received by _____
 Organization _____
 Received by _____
 Organization _____
 Received by [Signature]
 Organization _____
 12-10-92

Please label YIP
 Samples stored in ice _____
 Appropriate Containers _____
 Samples Preserved no
 VOA's without Headspace no
 Comments _____



Superior Precision Analytical, Inc.

P.O. Box 1545 • Martinez, California 94553 • (510) 779-1590 / fax (510) 229-0916

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

LABORATORY NO.: 87398
 CLIENT: SIRMCO
 CLIENT JOB NO.: CLEMENTINA

DATE RECEIVED: 12/10/92
 DATE REPORTED: 12/17/92
 DATE SAMPLED: 12/10/92

ANALYSIS FOR TOTAL LEAD by SW-846 Method 6010

LAB #	Sample Identification	Concentration (mg/kg) Total Lead
1	#1-D-SW-13'	7
2	#2-D-SE-13'	5
3	#3-G-NW-13'	ND<5
4	#4-G-NE 13'	5

µg/kg - parts per million (ppm)

Method Detection Limit for Lead in Soil: 5 mg/kg

QAQC Summary: MS/MSD Average Recovery : 84%
 Duplicate RPD : 1%

Richard Srna, Ph.D.

Helmina V. Danquilig (for)
 Laboratory Manager



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 871-7123

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

LABORATORY NO.: 55881
 CLIENT: SEMCO
 CLIENT JOB NO.: CLEMENTINA

DATE RECEIVED: 12/10/92
 DATE REPORTED: 12/17/92

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

LAB #	Sample Identification	Concentration (mg/kg)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
1	#1-D-SW-13'	ND<.003	ND<.003	ND<.003	ND<.003
2	#2-D-SE-13'	ND<.003	ND<.003	ND<.003	ND<.003
3	#3-G-NW-13'	ND<.003	ND<.003	ND<.003	ND<.003
4	#4-G-NE-13'	ND<.003	ND<.003	ND<.003	ND<.003

mg/kg - parts per million (ppm)

Method Detection Limit in Soil: 0.003 mg/kg

QAQC Summary:

Daily Standard run at 20ug/L: %Diff 8020 = <15%
 MS/MSD Average Recovery = 90%: Duplicate RPD = 3%

Richard Srna, Ph.D.

Richard Srna
 Laboratory Manager



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • 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.: 55881
 CLIENT: SEMCO
 CLIENT JOB NO.: CLEMENTINA

DATE RECEIVED: 12/10/92
 DATE REPORTED: 12/17/92

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

LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range
1	#1-D-SW-13'	ND<1
2	#2-D-SE-13'	ND<1
3	#3-G-NW-13'	ND<1
4	#4-G-NE-13'	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: %Diff Gasoline = <15
 MS/MSD Recovery = 96%: Duplicate RPD = 9%

Richard Srna, Ph.D.

Angela A. Nuvona
 Laboratory Manager



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.: 55881
 CLIENT: SEMCO
 CLIENT JOB NO.: CLEMENTINA

DATE RECEIVED: 12/10/92
 DATE REPORTED: 12/17/92

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

LAB #	Sample Identification	Concentration (mg/kg) Diesel Range
1	#1-D-SW-13'	ND<10
2	#2-D-SE-13'	ND<10
3	#3-G-NW-13'	ND<10
4	#4-G-NE-13'	ND<10

mg/kg - parts per million (ppm)

Minimum Detection Limit for Diesel in Soil: 10mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: %DIFF Diesel = <15%
 MS/MSD Average Recovery = 70%: Duplicate RPD = 1%

Richard Srna, Ph.D.

Richard Srna
 Laboratory Director