"SEMCO"

James C. Bateman Petroleum Services
Environmental Contractors

Ross Attwood
654-7803
01-1205

****** JUST THE FAX ******

DATE: 5/29/91 TIME: _____

FAX TO: _____ FAX #: 834-4130

ATTENTION: Jerry Friedkin

COMMENTS: Results for Precision Tank

TOTAL NUMBER OF PAGES INCLUDING COVER PAGE: 11

SENDER: Rhonda Kyes

FAX #: (415) 572-9734 TEL. #: (415) 572-8033

SEMCO
1741 LESLIE STREET
SAN MATEO, CA. 94403

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081 DHS #1332

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53639
CLIENT: SEMCO
CLIENT JOB NO.: PRECISON TUNE

DATE RECEIVED: 05/17/91
DATE REPORTED: 05/28/91

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

LAB #	Sample Identification	Concentration (mg/kg) Diesel Range
1	#1-550	66*
2	#2-550	ND<10
3	#3-550	ND<10
4	#4-550	ND<10
5	#5-550	**

where are these samples collected ?

highest oil & grease sample as shown on page 2 & highest gasoline sample @ (page 3)

* - Does not match typical Diesel pattern.
** - Result not available at reporting time.
mg/kg - parts per million (ppm)

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

QAQC Summary:

Daily Standard run at 200mg/L: %DIFF Diesel = <15%
MS/MSD Average Recovery = 76%: Duplicate RPD = 3.0%

Richard Srna, Ph.D.
Laboratory Director

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081 DHS #1332

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53639
CLIENT: SENCO
CLIENT JOB NO.: PRECISONTUNE

DATE RECEIVED: 05/17/91
DATE REPORTED: 05/28/91

ANALYSIS FOR TOTAL PETROLEUM OIL AND GREASE by Method 5520F (formerly 503E)

LAB #	Sample Identification	Concentration (mg/kg) Total oil & grease
1	#1-550	630
2	#2-550	83
3	#3-550	69
4	#4-550	ND<50
5	#5-550	3000

mg/kg - parts per million (ppm)

Minimum Detection Limit for oil & grease in Soil: 50mg/kg

QAQC Summary:
MS/MSD average recovery = 93%
Duplicate RPD = 1.1%

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53639
CLIENT: SEMCO
CLIENT JOB NO.: PRECISONTUNE

DATE RECEIVED: 05/17/91
DATE REPORTED: 05/28/91

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

LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range
1	#1-550	ND<1
2	#2-550	ND<1
3	#3-550	ND<1
4	#4-550	ND<1
5	#5-550	400

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 = 83%: Duplicate RPD = 3.7%

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53639
CLIENT: SEMCO
CLIENT JOB NO.: PRECISONTUNE

DATE RECEIVED: 05/17/91
DATE REPORTED: 05/28/91

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	#1-550	3	ND<3	ND<3	13
2	#2-550	ND<3	ND<3	ND<3	ND<3
3	#3-550	ND<3	ND<3	ND<3	ND<3
4	#4-550	ND<3	ND<3	ND<3	ND<3
5	#5-550	ND<150	3200	2900	23000

ug/kg - parts per billion (ppb)

Minimum Detection Limit in Soil: 3.0ug/kg

QAQC Summary:
Daily Standard run at 20ug/L: %DIFF = <16%
MS/MSD Average Recovery = 90% : Duplicate RPD = 6.8%

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53639-1
CLIENT: SEMCO
JOB NO.: Precision Tune

DATE SAMPLED: 05/15/91
DATE RECEIVED: 05/17/91
DATE ANALYZED: 05/23/91

EPA SW-846 METHOD 8010
HALOGENATED VOLATILE ORGANICS
SAMPLE: #1-550

Compound	MDL (ug/kg)	RESULTS (ug/kg)
Chloromethane/Vinyl Chloride	10	ND
Bromomethane/Chloroethane	10	ND
Trichlorofluoromethane	5	ND
1,1-Dichloroethene	5	ND
Methylene Chloride	5	39
trans-1,2-Dichloroethene	5	ND
1,1-Dichloroethane	5	ND
Chloroform	5	ND
1,1,1-Trichloroethane	5	ND
Carbon tetrachloride	5	ND
1,2-Dichloroethane	5	ND
Trichloroethylene	5	ND
1,2-Dichloropropane	5	ND
Bromodichloromethane	5	ND
Cis-1,3-Dichloropropene	5	ND
trans-1,3-Dichloropropene	5	ND
1,1,2-Trichloroethane	5	ND
Tetrachloroethene	5	ND
Dibromochloromethane	5	ND
Chlorobenzene	5	ND
Bromoform	5	ND
1,1,2,2-Tetrachloroethane	5	ND
1,3-Dichlorobenzene	5	ND
1,2-Dichlorobenzene	5	8
1,4-Dichlorobenzene	5	ND
Cis-1,2-Dicloroethene	5	ND

MDL = Method Detection Limit
ug/kg = parts per billion (ppb)
QA/QC Summary: Daily Standard %DIFF = <15%
MS/MSD average recovery = 106 % :MS/MSD RPD =< 2 %

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Laboratory Director

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53639-2
CLIENT: SEMCO
JOB NO.: Precision Tune

DATE SAMPLED: 05/15/91
DATE RECEIVED: 05/17/91
DATE ANALYZED: 05/23/91

EPA SW-846 METHOD 8010
HALOGENATED VOLATILE ORGANICS
SAMPLE: #2-550

Compound	MDL (ug/kg)	RESULTS (ug/kg)
Chloromethane/Vinyl Chloride	10	ND
Bromomethane/Chloroethane	10	ND
Trichlorofluoromethane	5	ND
1,1-Dichloroethene	5	ND
Methylene Chloride	5	ND
trans-1,2-Dichloroethene	5	ND
1,1-Dichloroethane	5	ND
Chloroform	5	ND
1,1,1-Trichloroethane	5	ND
Carbon tetrachloride	5	ND
1,2-Dichloroethane	5	ND
Trichloroethylene	5	ND
1,2-Dichloropropane	5	ND
Bromodichloromethane	5	ND
Cis-1,3-Dichloropropene	5	ND
trans-1,3-Dichloropropene	5	ND
1,1,2-Trichloroethane	5	ND
Tetrachloroethene	5	ND
Dibromochloromethane	5	ND
Chlorobenzene	5	ND
Bromoform	5	ND
1,1,2,2-Tetrachloroethane	5	ND
1,3-Dichlorobenzene	5	ND
1,2-Dichlorobenzene	5	ND
1,4-Dichlorobenzene	5	ND
Cis-1,2-Dicloroethene	5	ND

MDL = Method Detection Limit
ug/kg = parts per billion (ppb)
QA/QC Summary: Daily Standard %DIFF = <15%
MS/MSD average recovery = 105 % :MS/MSD RPD =< 2 %

Richard Srna, Ph.D.
Laboratory Director

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53639-3
CLIENT: SEMCO
JOB NO.: Precision Tune

DATE SAMPLED: 05/15/91
DATE RECEIVED: 05/17/91
DATE ANALYZED: 05/23/91

EPA SW-846 METHOD 8010
HALOGENATED VOLATILE ORGANICS
SAMPLE: #3-550

Compound	MDL (ug/kg)	RESULTS (ug/kg)
Chloromethane/Vinyl Chloride	10	ND
Bromomethane/Chloroethane	10	ND
Trichlorofluoromethane	5	ND
1,1-Dichloroethene	5	ND
Methylene Chloride	5	ND
trans-1,2-Dichloroethene	5	ND
1,1-Dichloroethane	5	ND
Chloroform	5	ND
1,1,1-Trichloroethane	5	ND
Carbon tetrachloride	5	ND
1,2-Dichloroethane	5	ND
Trichloroethylene	5	ND
1,2-Dichloropropane	5	ND
Bromodichloromethane	5	ND
Cis-1,3-Dichloropropene	5	ND
trans-1,3-Dichloropropene	5	ND
1,1,2-Trichloroethane	5	ND
Tetrachloroethene	5	ND
Dibromochloromethane	5	ND
Chlorobenzene	5	ND
Bromoform	5	ND
1,1,2,2-Tetrachloroethane	5	ND
1,3-Dichlorobenzene	5	ND
1,2-Dichlorobenzene	5	ND
1,4-Dichlorobenzene	5	ND
Cis-1,2-Dicloroethene	5	ND

MDL = Method Detection Limit
ug/kg = parts per billion (ppb)
QA/QC Summary: Daily Standard %DIFF = <15%
MS/MSD average recovery = 105 % :MS/MSD RPD =< 2 %

Richard Srna, Ph.D.
Laboratory Director

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53639-5
CLIENT: SEMCO
JOB NO.: Precision Tune

DATE SAMPLED: 05/15/91
DATE RECEIVED: 05/17/91
DATE ANALYZED: 05/23/91

EPA SW-846 METHOD 8010
HALOGENATED VOLATILE ORGANICS
SAMPLE: #5-550

Compound	MDL (ug/kg)	RESULTS (ug/kg)
Chloromethane/Vinyl Chloride	100	ND
Bromomethane/Chloroethane	100	ND
Trichlorofluoromethane	50	ND
1,1-Dichloroethene	50	ND
Methylene Chloride	50	ND
trans-1,2-Dichloroethene	50	ND
1,1-Dichloroethane	50	ND
Chloroform	50	ND
1,1,1-Trichloroethane	50	ND
Carbon tetrachloride	50	ND
1,2-Dichloroethane	50	ND
Trichloroethylene	50	ND
1,2-Dichloropropane	50	ND
Bromodichloromethane	50	ND
Cis-1,3-Dichloropropene	50	ND
trans-1,3-Dichloropropene	50	ND
1,1,2-Trichloroethane	50	ND
Tetrachloroethene	50	ND
Dibromochloromethane	50	ND
Chlorobenzene	50	ND
Bromoform	50	ND
1,1,2,2-Tetrachloroethane	50	ND
1,3-Dichlorobenzene	50	ND
1,2-Dichlorobenzene	50	ND
1,4-Dichlorobenzene	50	540
Cis-1,2-Dicloroethene	50	120
		ND

MDL = Method Detection Limit
ug/kg = parts per billion (ppb)
QA/QC Summary: Daily Standard %DIFF = <15%
MS/MSD average recovery = 105 % :MS/MSD RPD =< 2 %

Richard Srna, Ph.D.
Laboratory Director

OUTSTANDING QUALITY AND SERVICE

SEMCO
JAMES C. BATEMAN PETROLEUM SERVICES, INC.
431 W. Hatch Rd Modesto, Calif. 95351
General & Engineering Contractors
(800) 533-9293
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SEMCO
JAMES C. BATEMAN PETROLEUM SERVICES, INC.
1741 Leslie St. San Mateo, Calif. 94402
General & Engineering Contractors
(415) 572-9033
FAX (415) 572-9734

CHAIN OF CUSTODY RECORD

PROJECT NAME: Precision Tune

SAMPLERS (signature): Chuck Kipp
Semco

Station Number	Date	Time	Comp.	Grab	Station Location	Number of Containers	Analysis Required: TPH-G-D	BTEX	TDE	G HC				REMARKS
#1-550	5/15/91	2:00		✓	#1-550-WO-E-8'	1	✓	✓	✓	✓				
#2-550	5/15/91	2:20		✓	#2-550-W-O-W-8'	1	✓	✓	✓	✓				
#3-550	5/15/91	2:35		✓	#3-550-WO-E-10'6"	1	✓	✓	✓	✓				
#4-550	5/15/91	2:40		✓	#4-550-WO-W-10'6"	1	✓	✓	✓	✓				
#5-550	5/15/91	3:00	✓		#5-550-WO-Comp Spl.	4	✓	✓	✓	✓				

Eq. + Ex. ←

Spoils ←

Relinquished by(signature):	Date / Time	Received by (signature):	Relinquished by(signature):	Date / Time	Received by (signature):
Chuck Kipp Company or Agency: Semco	5/17/91 9:00 AM	Company or Agency: Express-24	Company or Agency:		Company or Agency:
Relinquished by(signature):	Date / Time	Received by (signature):	Relinquished by:	Date / Time	Received by (signature):
Company or Agency:		Company or Agency:	Company or Agency:		Company or Agency:
Relinquished by(signature):	Date / Time	Received for Laboratory by: (signature)	Date / Time	Remarks/Shipping Information: Normal Turn	
Company or Agency:					

SUPERIOR ANALYTICAL LABORATORY, INC.

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 53639-4
CLIENT: SEMCO
JOB NO.: Precision Tune

DATE SAMPLED: 05/15/91
DATE RECEIVED: 05/17/91
DATE ANALYZED: 05/23/91

EPA SW-846 METHOD 8010
HALOGENATED VOLATILE ORGANICS
SAMPLE: #4-550

Compound	MDL (ug/kg)	RESULTS (ug/kg)
Chloromethane/Vinyl Chloride	10	ND
Bromomethane/Chloroethane	10	ND
Trichlorofluoromethane	5	ND
1,1-Dichloroethene	5	ND
Methylene Chloride	5	ND
trans-1,2-Dichloroethene	5	ND
1,1-Dichloroethane	5	ND
Chloroform	5	ND
1,1,1-Trichloroethane	5	ND
Carbon tetrachloride	5	ND
1,2-Dichloroethane	5	ND
Trichloroethylene	5	ND
1,2-Dichloropropane	5	ND
Bromodichloromethane	5	ND
Cis-1,3-Dichloropropene	5	ND
trans-1,3-Dichloropropene	5	ND
1,1,2-Trichloroethane	5	ND
Tetrachloroethene	5	ND
Dibromochloromethane	5	ND
Chlorobenzene	5	ND
Bromoform	5	ND
1,1,2,2-Tetrachloroethane	5	ND
1,3-Dichlorobenzene	5	ND
1,2-Dichlorobenzene	5	ND
1,4-Dichlorobenzene	5	ND
Cis-1,2-Dicloroethene	5	ND

MDL = Method Detection Limit
ug/kg = parts per billion (ppb)
QA/QC Summary: Daily Standard %DIFF = <15%
MS/MSD average recovery = 105 % :MS/MSD RPD =< 2 %

Richard Srna, Ph.D.
Laboratory Director