



ENTERED

SB 4/21/99

UST # 5191
Acacia Memorial Park
Conestoga-Rovers & Associates Seattle

8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631
(773) 380-9933 Office (773) 380-6421 Fax

RECEIVED
APR 05 1999
DEPT. OF ECOLOGY

March 31, 1999

Reference No. 12867

Mr. Ronald W. Timm
State of Washington
Department of Ecology
Northwest Regional Office
3190 - 160th Avenue S.E.
Bellevue, Washington 98008-5452

Dear Mr. Timm:

Re: Underground Storage Tank Removal Activities
Acacia Memorial Park
Seattle, Washington

DEPARTMENT OF ECOLOGY	
NWRO/TCP TANKS UNIT	
INTERIM CLEANUP REPORT	<input type="checkbox"/>
SITE CHARACTERIZATION	<input type="checkbox"/>
FINAL CLEANUP REPORT	<input type="checkbox"/>
OTHER <u>Clean Closure</u>	<input checked="" type="checkbox"/>
AFFECTED MEDIA: SOIL	<input type="checkbox"/>
OTHER _____ GW	<input type="checkbox"/>
INSPECTOR (INIT.) <u>SB</u>	DATE <u>4/21/99</u>

At the request of The Loewen Group (Loewen), Conestoga-Rovers & Associates (CRA), has completed the following Site Remediation and Compliance Attainment (SRCA) activities at the Acacia Memorial Park in Seattle, Washington (Site). This letter provides a summary of the field activities completed related to the removal of three underground storage tanks (USTs) at the Site.

GENERAL

Two former heating oil USTs and one former heavy bunker oil UST were closed by removal at the Site on September 8 and 9, 1998. Field activities were conducted by Cecon Corporation (Cecon) of Tacoma, Washington and supervised by Conestoga-Rovers & Associates (CRA). The location of the USTs is presented on Figure 1. As the USTs are not located adjacent to one another, three separate UST excavations were completed.

Cecon obtained Permit No. B98A2883 from the office of King County Fire Marshall (KCFM) to perform the UST removal activities (see Attachment A). Mr. Dave Maulding of KCFM was on-Site during the UST removal activities.

The USTs were emptied with a vacuum truck and the contents were transported to Emerald Petroleum of Seattle, Washington. A copy of the bill of lading is included in Attachment B. The USTs were then inerted with carbon dioxide. Overburden soils were stockpiled next to each UST excavation area for use as backfill. Cecon also imported clean fill from an off-Site source for use as backfill. After removal, the USTs were rendered unfit for reuse and transported by Cecon to Schnitzer Steel Industries, Inc. of Tacoma, Washington. A copy of the receipt is included in Attachment C.

UST #1 - Heavy Bunker Oil UST for Crematory

UST #1 was located on the south side of the original mausoleum to the east end of the crematory and was used for storage of heavy bunker oil. The UST was approximately

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Reference No. 12867

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1,700 gallons in volume. The UST was removed; however, the fill port and vent pipe were plugged and left in place, due to access restrictions caused by the building and underground natural gas lines. Confirmatory soil samples were collected by Cecon's registered Washington State Site Assessor (Site Assessor), and analyzed for Washington Total Petroleum Hydrocarbons - Diesel (WTPH-D), as follows:

<i>Sample ID</i>	<i>Sample Location</i>
T1-ESC1	excavation sidewall
T1-ESC2	excavation sidewall
T1-B	excavation base
T1-SP	excavated soil

UST #2 – Mausoleum Heating Oil UST

UST #2 was located on the north side of the original mausoleum and was used for storage of heating oil for the mausoleum. The UST was approximately 1,000 gallons in size. The UST and the fill port were removed; however, the vent pipe was plugged and left in place, due to access restrictions caused by underground natural gas lines. Confirmatory soil samples were collected by Cecon's Site Assessor, and analyzed for WTPH-D, as follows:

<i>Sample ID</i>	<i>Sample Location</i>
T2-ESC1	excavation sidewall
T2-ESC2	excavation sidewall
T2-B	excavation base
T2-SP	excavated soil

UST #3 – Office Heating Oil UST

UST #3 was located on the north side of the office building, and was approximately 800 gallons in size. The UST, fill port, and vent pipe were removed. Confirmatory soil samples were collected by Cecon's Site Assessor, and analyzed for WTPH-D, as follows:

<i>Sample ID</i>	<i>Sample Location</i>
T3-ESC1	excavation sidewall
T3-ESC2	excavation sidewall
T3-B	excavation base
T3-SP	excavated soils

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ANALYTICAL RESULTS

Field screening of samples was conducted by Cecon during the UST removal activities. In addition, soil samples were shipped to Sound Analytical Services, Inc. of Tacoma, Washington for analysis. The results are summarized in Table 1. The analytical data reports are included in Attachment D. No WTPH-D compounds were detected in any of the soil samples analyzed above the Washington Model Toxics Control Act (MTCA) Method A cleanup level of 200 mg/kg.

FIRE MARSHALL INSPECTION

Mr. Maulding inspected and approved the Site conditions upon completion of the UST removals on September 9, 1998.

ADDITIONAL ACTIVITIES

On October 8, 1998, Cecon returned to the Site to remove the contents of several 55-gallon drums containing decontamination water from previous Site drilling and sampling activities. The water was transported to Emerald Petroleum. Copies of the bills of lading are included in Attachment E.

Please contact our office at (773) 380-9933 if you require anything further at this time.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

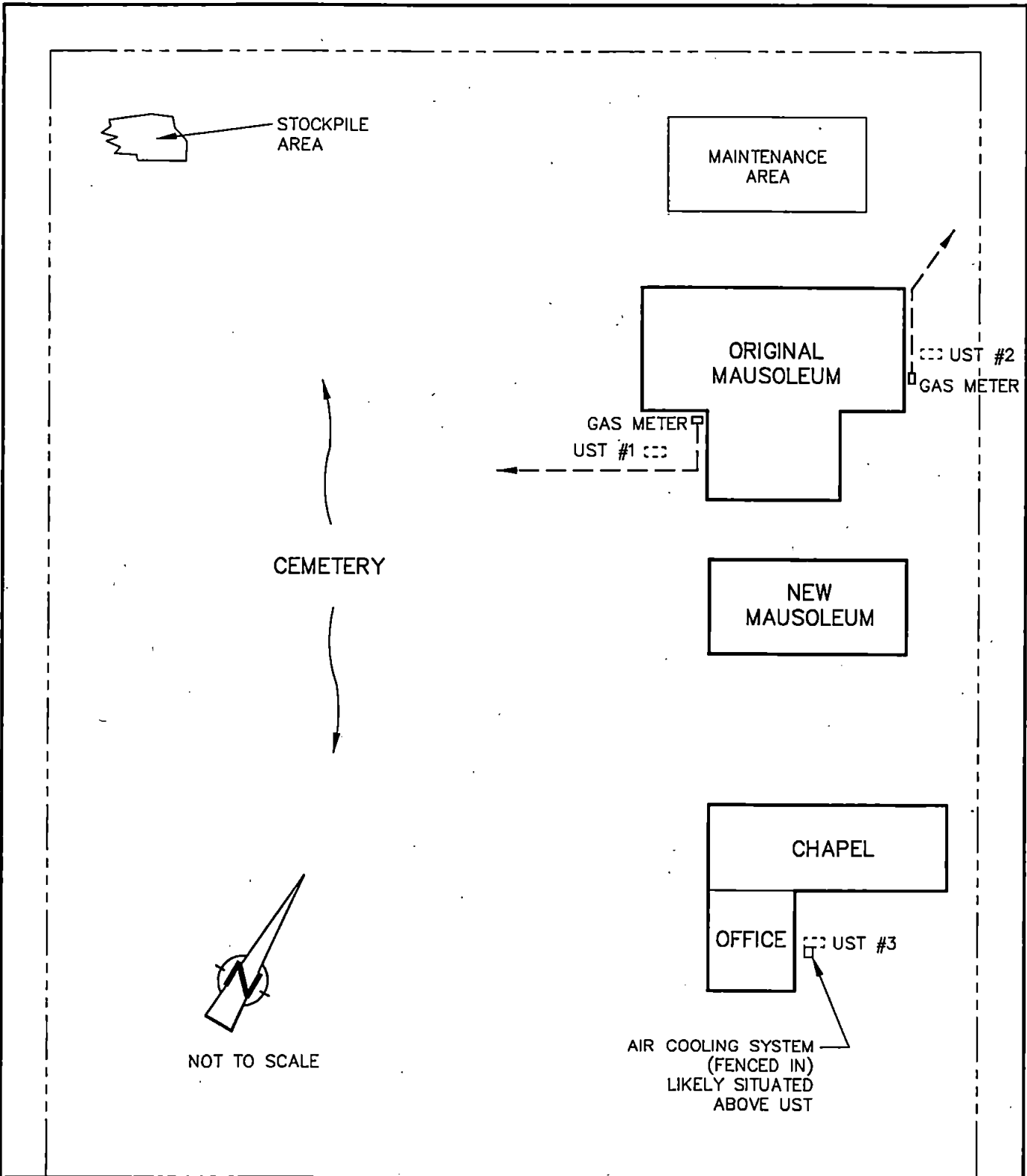


Richard G. Shepherd, P. Eng.

RGS/ko/2

Encl.

c.c. Andy Williamson
Sharon Norton
Cam Walker



BOTHELL WAY

LEGEND:

- PROPERTY LINE
- ←----- NATURAL GAS LINE

figure 1

GENERAL SITE PLAN
ACACIA MEMORIAL PARK
Seattle, Washington

CRA

ATTACHMENT A

King County
Department of Development
and Environmental Services
900 Oakesdale Avenue Southwest
Renton, Washington 98055-1219

Applicant : CECON CORP
Appl.Address: PO BOX 1514
: TACOMA WA 98401
Phone Number: 253-272-8851

Activity No: B98A2883
Project No : *9813682
Page : 1 of 1
Date : 08/18/98

* P E R M I T C O N D I T I O N S *

=====
The conditions attached to this cover sheet apply to the permit referenced her
All conditions must be complied with by the contractor and verified by a
Building Inspector or this permit will become null and void.
=====

PROJECT REFERENCE INFORMATION:

Location : 15000 BOTHELL WAY NE LF Parcel : 162604-90
Permit Type : FLAMMABLE LIQUIDS STORAGE TANK Type Code: FIRETANK
Title : REMOVAL OF 3 HEATING OIL TANKS Valuation:
Description : ACACIA MEMORIAL PARK
Occup'y/Type: 5 Class: 036 Bldgs: 0 Units: 0

OTHER INFORMATION:

Fire District: FD # 5
Remove Existing Tank? Y (Y/N)
Replace Existing Tank? N (Y/N)
Install New Tank? N (Y/N)

REVIEWED BY:

(Structure) _____

(Ordinance) _____

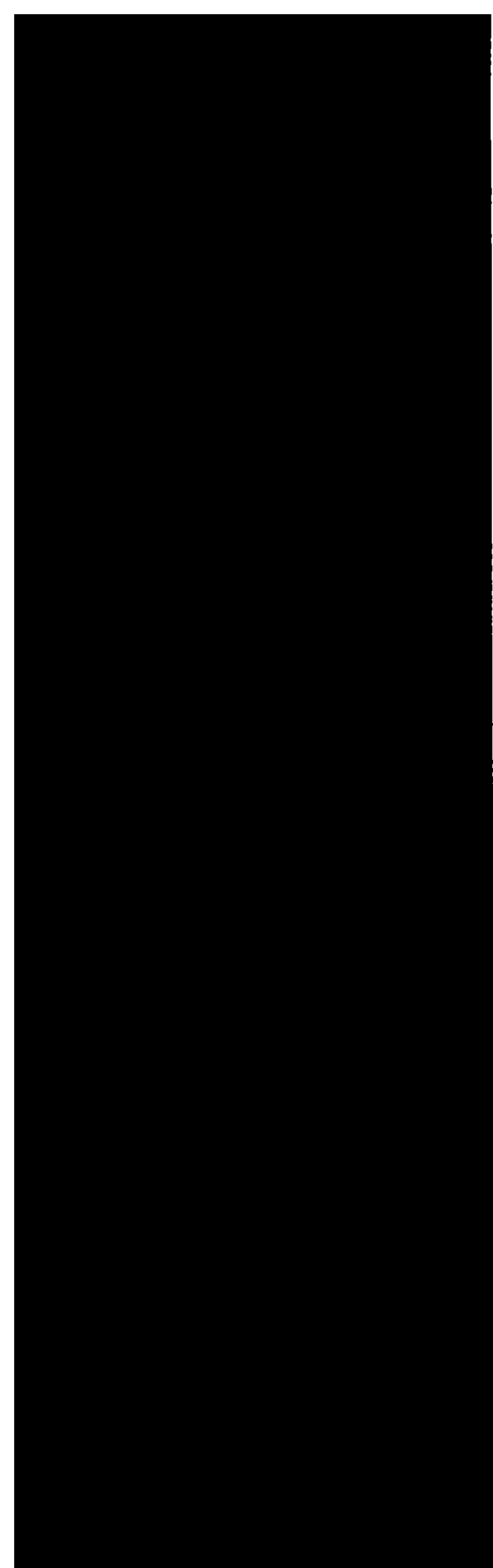
(Fire) _____

(Mechanical) _____

() _____

APPROVED
AUG 18 1998
KING COUNTY
FIRE ENGINEERING

ATTACHMENT B



[The right side of the page is mostly blank white space with some minor scanning artifacts and faint vertical lines.]



98-41

1703 Portland Avenue • Tacoma, WA 98421 • (206) 272-8851

No 0384

Environmental and Industrial Contractors

SHIPPER Acacia Memorial Park

ADDRESS 14951 Bothell Way NE

PHONE _____

ORIGIN Diesel tank & Heating oil tank

U.S. D.O.T. DESCRIPTION Including Proper Shipping Name, Hazard Class & I.D. Number	CONTAINER		QUANTITY	
	No.	Type	Wt.	Vol.
THIS MATERIAL IS NOT REGULATED UNDER HAZARDOUS MATERIALS REGULATIONS 303.40 CFR PART 261 OR 40 CFR PART 761 Coily water		TANK TRUCK		176 gals

PHYSICAL STATE (CIRCLE): SOLID LIQUID SLUDGE OTHER _____

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION TANK BOTTOMS & PINSOTE

IN THE EVENT OF A SPILL, CONTACT EITHER THE DEPARTMENT OF ECOLOGY 800-258-5990 AND/OR THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 800-424-8802 FOR EMERGENCY ASSISTANCE.

This is to certify that the above-named materials are properly classified, described, packaged, marked, labeled and are in proper condition for transportation according to the applicable regulation of the U.S. Department of Transportation.

SHIPPER SIGNATURE John Dykman For Acacia

DATE 9-8-98

TRANSPORTER LeCon Corp

PHONE 272-8851

ADDRESS 1703 PORTLAND AVE, TACOMA

SIGNATURE _____

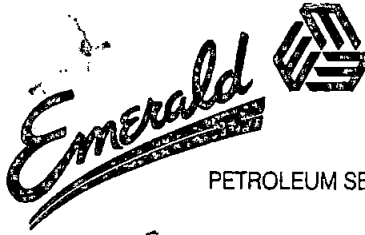
DESTINATION EMERALD PETROLEUM

PHONE (206) 622-1108

ADDRESS 1500 AIRPORT WAY SEATTLE

SIGNATURE Neu

DATE 9.14.98



PETROLEUM SERVICES, INC.

39369

BILL OF LADING AND GALLONAGE REPORT

CUSTOMER CELON Corp DATE 9/14/95

JOB LOCATION 14951 Butcher Way

DRIVER _____ EQUIP 1

JOB NO _____ DOCUMENT NO 0384

PRODUCT Oil Water EST. GALS 176

PRODUCT _____ EST. GALS _____

DRUMS _____ NO _____

OTHER _____ EST SOLIDS _____

WASH OUT: YES NO TIME IN _____ TIME OUT _____

WATER 1125 GAL LOCATION N. Blue CODE WTPA

SOLIDS CP 10 GAL LOCATION N. Blue CODE SOL

2 % SUSPENDED SOLIDS BY CENTRIFUGE + _____ GALS. SEDIMENT

OIL/DIESEL 60 GAL LOCATION N. Blue CODE OPA

HOC'S _____ PCB'S _____ B.S.&W. _____ API. _____ LAB: YES NO

GAS _____ GAL LOCATION _____

BUNKER FUEL _____ GAL LOCATION _____

OTHER _____

THIS MATERIAL IS NOT REGULATED UNDER WAC-173-303 OR 40CFR PART 261 AND 40CFR PART 761

Nes Ar

FACILITY REPRESENTATIVE

John D. [Signature]

DRIVER SIGNATURE

NW116 (REV. 8/98)

DISPOSAL FACILITY

ATTACHMENT C

SCHNITZER STEEL INDUSTRIES, INC.

1902 MARINE VIEW DRIVE • TACOMA, WASHINGTON 98422

98-45
3-Tanks
CRA

236876

W D CARLL

WDC

39

15880

09:24 09:36 01 Oct 98

SEC NO	GROSS WT (LB)	DATE
--------	---------------	------

CODE	MATERIAL	\$/UNIT	TARE WT (LB)	NET WT (LB)	ADJUSTED NET WT (LB)	AMOUNT
26	# 2 UN-PREPARED	\$26.00/NT	12180	3700	3700	48.10

ATTACHMENT D

TABLE 1

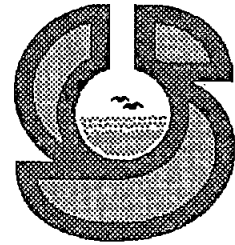
SUMMARY OF DETECTED WTPH-D IN SOIL SAMPLES
 UNDERGROUND STORAGE TANK REMOVALS
 ACACIA MEMORIAL PARK
 SEATTLE, WASHINGTON

Sample ID	Washington Method A Cleanup Standard ¹	T1-ESC1	T1-ESC1 (Dup.)	T1-ESC2	T1-B	T1-SP	T2-ESC1	T2-ESC2	T2-B	T2-SP	T3-ESC1	T3-ESC2	T3-B	T3-SP	T3-SP (Dup.)
Parameter (mg/kg)															
WTPH-D ²	200	29	25	30	27	31	30	26	25	28	44	36	69	120	160

¹ Value taken from Washington State Department of Ecology: Guidance for Remediation of Petroleum Contaminated Soils, dated November 1995.

² Value is the diesel fraction of the analysis (>nC12-nC24).

Sound Analytical Services, Inc.
ANALYTICAL & ENVIRONMENTAL CHEMISTS
4813 Pacific Hwy East • Tacoma, WA 98424
(253) 922-2310 • FAX (253) 922-5047
e-mail: SoundL@aol.com



TRANSMITTAL MEMORANDUM

DATE: September 22, 1998

TO: A. J. Riddell
CEcon Corp.
P.O. Box 1514
Tacoma, WA 98401

PROJECT: CRA

REPORT NUMBER: 75452

Enclosed are the test results for twelve samples received at Sound Analytical Services on September 9, 1998.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Tom Watson
Project Manager

RECEIVED

SEP 28 1998

CEcon corp

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T1-ESC1
Lab ID:	75452-01
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	79.62

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	88		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	29	24	
Motor Oil (>nC24-nC32)	ND	48	

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T1-ESC2
Lab ID:	75452-02
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	87.82

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	78		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	30	21	
Motor Oil (>nC24-nC32)	ND	43	

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T1-B
Lab ID:	75452-03
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	87.13

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	81		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	27	23	
Motor Oil (>nC24-nC32)	ND	45	

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T1-SP
Lab ID:	75452-04
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	86.88

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	82		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	31	22	
Motor Oil (>nC24-nC32)	ND	45	

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T2-ESC1
Lab ID:	75452-05
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	90.15

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	77		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	30	21	
Motor Oil (>nC24-nC32)	38	42	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T2-ESC2
Lab ID:	75452-06
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	89.64

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	82		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	26	21	
Motor Oil (>nC24-nC32)	45	43	

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T2-B
Lab ID:	75452-07
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	89.6

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	70		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	25	22	
Motor Oil (>nC24-nC32)	62	43	

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T2-SP
Lab ID:	75452-08
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	89.84

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	88		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	28	22	
Motor Oil (>nC24-nC32)	42	44	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T3-ESC1
Lab ID:	75452-09
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	81.48

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	74		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	44	24	
Motor Oil (>nC24-nC32)	ND	48	

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T3-ESC2
Lab ID:	75452-10
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	79.63

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	75		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	36	23	
Motor Oil (>nC24-nC32)	ND	47	

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T3-B
Lab ID:	75452-11
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	83.03

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	72		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	69	24	
Motor Oil (>nC24-nC32)	ND	48	

SOUND ANALYTICAL SERVICES, INC.

Client Name	CEcon Corp.
Client ID:	T3-SP
Lab ID:	75452-12
Date Received:	9/9/98
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
% Solids	83.28

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	77		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	120	24	
Motor Oil (>nC24-nC32)	85	48	

SOUND ANALYTICAL SERVICES, INC.

Lab ID: Method Blank - DI1708
Date Received: -
Date Prepared: 9/11/98
Date Analyzed: 9/16/98
% Solids

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	81		50	150

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	ND	20	
Motor Oil (>nC24-nC32)	ND	40	

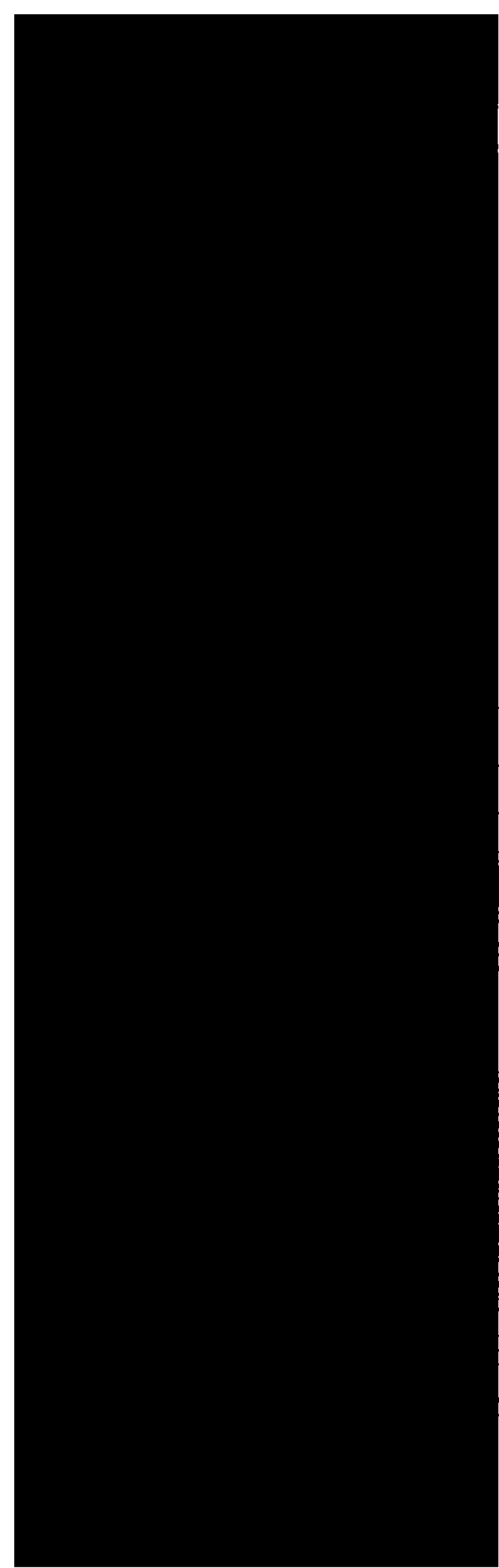
SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID: DI1708
Date Prepared: 9/11/98
Date Analyzed: 9/15/98
QC Batch ID: DI1708

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Compound Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	BSD Result (mg/kg)	BSD % Rec.	RPD	Flag
Diesel (>nC12-nC24)	0	500	412	82.3	462	92.4	12	
Motor Oil (>nC24-nC32)	0	500	408	81.5	458	91.6	12	



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SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID: T1-ESC1
Lab ID: 75452-01
Date Prepared: 9/11/98
Date Analyzed: 9/15/98
QC Batch ID: DI1708A

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Diesel (>nC12-nC24)	29	25	15.0	
Motor Oil (>nC24-nC32)	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	T3-SP
Lab ID:	75452-12
Date Prepared:	9/11/98
Date Analyzed:	9/15/98
QC Batch ID:	DI1708

Extended Diesel Range by WTPH-D Modified with Silica Gel Cleanup

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Diesel (>nC12-nC24)	120	160	-29.0	
Motor Oil (>nC24-nC32)	85	200	-81.0	N

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE: (253) 922-2310 - FAX: (253) 922-5047

DATA QUALIFIERS AND ABBREVIATIONS

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be $\leq 40\%$.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be $> 40\%$. The higher result was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- N: See analytical narrative.
- ND: Not Detected
- PQL: Practical Quantitation Limit
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____.
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.



75452

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: CEcon					ANALYSIS REQUESTED:														
PROJECT NAME: CRA					# of Containers	Halogenated Volatiles EPA 601/8010	Aromatic Volatiles EPA 802/8020	Chlorinated Pest., PCB's EPA 608/8080	PAH's	Volatile Organics EPA 624/8240 (GC/MS)	Semi-volatiles EPA625/8270 (GC/MS)	TPH 418.1	Oil & Grease	Total Metals (Specify below)	TCLP Extraction				MTPH-D ext. *
CONTACT: AJ															8 Metals	Volatiles	Semi-volatiles	Pesticides & Herbicides	
PHONE NO: 272-8851																			
LAB #	SAMPLE I.D.	DATE	TIME	MATRIX															
1	T1-ESC1	090998	0930	S	1														
2	T1-ESC2		0940		1														
3	T1-B		0945		1														
4	T1-SP		0950		1														
5	T2-ESC1		1005		1														
6	T2-ESC2		1015		1														
7	T2-B		1020		1														
8	T2-SP		1030		1														
9	T3-ESC1		1055		1														
10	T3-ESC2		1110		1														
11	T3-B		1115		1														
12	T3-SP		1120		1														

	Signature	Printed Name	Firm	Time / Date	SPECIAL INSTRUCTIONS/COMMENTS: These samples will be disposed of 45 days after receipt. Check this box to have samples returned <input type="checkbox"/> ⊗ Please add silica gel cleanup. Std. TAT
Relinquished By	<i>AJ Riddell</i>	AJ Riddell	CEcon	1245 / 090998	
Received By	<i>M Hodgman</i>	M Hodgman	SAS	1045 9/11/98	
Relinquished By					
Received By					
Relinquished By					
Received By					

4/2