

ATTACHMENT B

ATTACHMENT B

CHEMICAL ANALYTICAL PROGRAM

ANALYTICAL METHODS

Chain-of-custody procedures were followed during the transport of the field samples to the analytical laboratory. The samples were held in cold storage pending extraction and/or analysis. The analytical results, analytical methods reference and laboratory quality control records are included in this attachment. The analytical results also are summarized in the text and tables of this report.

ANALYTICAL DATA REVIEW

The laboratory maintains an internal quality assurance program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries and blank spike duplicate recoveries to evaluate the validity of the analytical results. The laboratory also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods. The data quality goals were included in the laboratory reports. The laboratory compared each group of samples with the existing data quality goals and noted any exceptions in the laboratory report. The laboratory quality control and data quality exceptions documented by the laboratory were reviewed by GeoEngineers using the applicable data validation guidelines from the following documents: "Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses" dated July 1988 (EPA document number EPA540/R94/083) and "US EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" dated February 1994 (EPA document number EPA540/R94/012).

ANALYTICAL DATA REVIEW SUMMARY

The sample extract for ground water samples MW-2, MW-3 and D-1 (duplicate of ground water sample MW-3) and soil samples HA2-2.5, HA4-2.5, HA4-5.0 were cleaned up according to Northwest Method TPH-D extended method procedures to remove suspected biogenic interference. Soil sample GBI-13.5 was extracted beyond the recommended holding time. This sample was analyzed to further investigate the depth of heavy oil-range petroleum hydrocarbon contamination detected in boring GBI-1. Exceeding the holding time in this sample is not thought to substantially affect data quality given that the only contaminants detected in the boring are heavy oil-range hydrocarbons. Based on our data quality review, it is our opinion that the ground water and soil analytical data are of acceptable quality for their intended use.

NORTH CREEK ANALYTICAL Environmental Laboratory Services



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.
7504 S.W. Bridgeport Road
Portland, OR 97224

Project: TOSCO - Inman Oil Co.
Project Number: 4823-022-00
Project Manager: Bill Collins

Sampled: 6/26/98
Received: 6/30/98
Reported: 7/14/98 23:36

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
--------------------	--------------------------	---------------	--------------

GEII-6.0	P806596-01	Soil	6/26/98
GEII-11.0	P806596-02	Soil	6/26/98
GEI2-5.5	P806596-05	Soil	6/26/98
GEI2-10.0	P806596-06	Soil	6/26/98
GEI3-3.5	P806596-11	Soil	6/26/98
GEI3-11.5	P806596-14	Soil	6/26/98
GEI4-6.0	P806596-17	Soil	6/26/98
GEI4-10.5	P806596-18	Soil	6/26/98
HA1-5.0	P806596-27	Soil	6/26/98
HA1-7.5	P806596-28	Soil	6/26/98
GEI-4	P806596-29	Water	6/26/98

North Creek Analytical, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.
7504 S.W. Bridgeport Road
Portland, OR 97224

Project: TOSCO - Inman Oil Co.
Project Number: 4823-022-00
Project Manager: Bill Collins

Sampled: 6/26/98
Received: 6/30/98
Reported: 7/14/98 23:36

Gasoline Hydrocarbons per NW TPH-Gx Method and BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch	Date	Date	Surrogate	Reporting	Limit	Result	Units	Notes*
---------	-------	------	------	-----------	-----------	-------	--------	-------	--------

GE14									
Benzene	0780100	7/9/98	7/6/98		0.500	ND	ug/l		
Toluene					0.500	ND			
Ethylbenzene					0.500	ND			
Xylenes (total)					1.00	ND			
Gasoline Range Hydrocarbons					80.0	ND			
Surrogate: 4-BFB (PID)	"	"	"	"	50.0-150	95.6	%		
Surrogate: 4-BFB (FID)	"	"	"	"	50.0-150	92.8	"		

P806596-29

Water

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Breverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

Geoenvironmental, Inc.
7504 S.W. Bridgeport Road
Portland, OR 97224
Project: TOSCO - Inman Oil Co.
Project Number: 4823-022-00
Project Manager: Bill Collins

Sampled: 6/26/98
Received: 6/30/98
Reported: 7/14/98 23:36

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method
North Creek Analytical - Portland

Analyte	Batch	Date	Prepared	Date	Analyzed	Surrogate	Limit	Reporting	Result	Units	Notes*
---------	-------	------	----------	------	----------	-----------	-------	-----------	--------	-------	--------

GE11-6.0	Diesel Range Organics	0780131	7/7/98	7/7/98	"	"	50.0-150	ND	25.0	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	ND	50.0	"	"
	Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	114	"	%	"
GE11-11.0	Diesel Range Organics	0780131	7/7/98	7/8/98	"	"	50.0-150	ND	125	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	2350	250	"	"
	Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	103	"	%	"

GE12-5.5	Diesel Range Organics	0780131	7/7/98	7/8/98	"	"	50.0-150	ND	25.0	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	157	50.0	"	"
	Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	100	"	%	"
GE12-10.0	Diesel Range Organics	0780131	7/7/98	7/7/98	"	"	50.0-150	ND	25.0	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	ND	50.0	"	"
	Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	117	"	%	"

GE13-11.5	Diesel Range Organics	0780131	7/7/98	7/7/98	"	"	50.0-150	ND	25.0	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	ND	50.0	"	"
	Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	103	"	%	"
GE14-6.0	Diesel Range Organics	0780131	7/7/98	7/7/98	"	"	50.0-150	ND	25.0	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	ND	50.0	"	"
	Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	121	"	%	"

GE14-10.5	Diesel Range Organics	0780131	7/7/98	7/7/98	"	"	50.0-150	ND	25.0	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	ND	50.0	"	"
	Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	90.4	"	%	"

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 1115 Montgomerie, Suite B, Spokane, WA 99206-4776
9405 S.W. Milbush Avenue, Beaverton, OR 97008-7132



Geotechnical Engineers, Inc.	Project:	TOSCO - Inman Oil Co.	Sampled:	6/26/98
7504 S.W. Bridgeport Road	Project Number:	4823-022-00	Received:	6/30/98
Portland, OR 97224	Project Manager:	Bill Collins	Reported:	7/14/98 23:36

Analyte	Batch	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	-------	---------------	---------------	------------------	-----------------	--------	-------	--------

Sample	Parameter	Unit	Value	Limit	Notes
HA1-5.0	Diesel Range Organics	mg/kg dry	274	25.0	P806596-27
	Heavy Oil Range Hydrocarbons	mg/kg dry	60.4	50.0	
	Surrogate: 1-Chlorooctadecane	%	119	50.0-150	
HA1-7.5	Diesel Range Organics	mg/kg dry	37.3	25.0	P806596-28
	Heavy Oil Range Hydrocarbons	mg/kg dry	ND	50.0	
	Surrogate: 1-Chlorooctadecane	%	89.9	50.0-150	
GE1-4	Diesel Range Organics	mg/l	ND	0.250	P806596-29
	Heavy Oil Range Hydrocarbons	mg/l	ND	0.500	
	Surrogate: 1-Chlorooctadecane	%	94.1	50.0-150	

**Refer to end of report for text of notes and definitions.*

Page 4 of 8

BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

NORTH CREEK ANALYTICAL

Environmental Laboratory Services



GeoEngineers, Inc.
 7504 S.W. Bridgeport Road
 Portland, OR 97224

Project: TOSCO - Inman Oil Co.
 Project Number: 4823-022-00
 Project Manager: Bill Collins

Sampled: 6/26/98
 Received: 6/30/98
 Reported: 7/14/98 23:36

Dry Weight Determination North Creek Analytical - Portland

Sample Name	Lab ID	Matrix	Result	Units
-------------	--------	--------	--------	-------

GE11-6.0	P806596-01	Soil	93.3	%
GE11-11.0	P806596-02	Soil	90.7	%
GE12-5.5	P806596-05	Soil	93.1	%
GE12-10.0	P806596-06	Soil	94.8	%
GE13-3.5	P806596-11	Soil	92.1	%
GE13-11.5	P806596-14	Soil	93.0	%
GE14-6.0	P806596-17	Soil	92.5	%
GE14-10.5	P806596-18	Soil	92.8	%
HA1-5.0	P806596-27	Soil	92.7	%
HA1-7.5	P806596-28	Soil	92.3	%

North Creek Analytical, Inc.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Milnhus Avenue, Beaverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.
 7504 S.W. Bridgeport Road
 Portland, OR 97224

Project: TOSCO - Inman Oil Co.
 Project Number: 4823-022-00
 Project Manager: Bill Collins

Sampled: 6/26/98
 Received: 6/30/98
 Reported: 7/14/98 23:36

Gasoline Hydrocarbons per NW TPH-GX Method and BTEX per EPA Method 8020A/Quality Control

North Creek Analytical - Portland

Analyte	Date	Spike	Level	Sample	QC	Result	Units	Recovery	Limit	%	Recovery	Limit	%	Recovery	Limit	%	Notes*
---------	------	-------	-------	--------	----	--------	-------	----------	-------	---	----------	-------	---	----------	-------	---	--------

Batch: 0780100 Date Prepared: 7/9/98 Extraction Method: EPA 5030

Blank	0780100-BL.K1	7/6/98	ND	ND	ug/l	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500
Benzene		7/6/98	ND	ND	ug/l	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500
Toluene		7/6/98	ND	ND	ug/l	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500
Ethylbenzene		7/6/98	ND	ND	ug/l	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500
Xylenes (total)		7/6/98	ND	ND	ug/l	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500
Gasoline Range Hydrocarbons		7/6/98	ND	ND	ug/l	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500
Surrogate: 4-BFB (PID)		7/6/98	ND	ND	ug/l	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500
Surrogate: 4-BFB (FID)		7/6/98	ND	ND	ug/l	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500	ND	0.500

LCS	0780100-BS1	7/6/98	1250	1100	ug/l	ND	50.0-150	88.0	98.8	50.0-150	88.0	98.8	50.0-150	88.0	98.8	50.0-150	88.0
Gasoline Range Hydrocarbons		7/6/98	1250	1100	ug/l	ND	50.0-150	88.0	98.8	50.0-150	88.0	98.8	50.0-150	88.0	98.8	50.0-150	88.0
Surrogate: 4-BFB (PID)		7/6/98	1250	1100	ug/l	ND	50.0-150	88.0	98.8	50.0-150	88.0	98.8	50.0-150	88.0	98.8	50.0-150	88.0
Surrogate: 4-BFB (FID)		7/6/98	1250	1100	ug/l	ND	50.0-150	88.0	98.8	50.0-150	88.0	98.8	50.0-150	88.0	98.8	50.0-150	88.0

Duplicate	0780100-DUP1	7/6/98	ND	ND	ug/l	ND	50.0-150	85.8	50.0	50.0-150	85.8	50.0	50.0-150	85.8	50.0	50.0-150	85.8
Gasoline Range Hydrocarbons		7/6/98	ND	ND	ug/l	ND	50.0-150	85.8	50.0	50.0-150	85.8	50.0	50.0-150	85.8	50.0	50.0-150	85.8
Surrogate: 4-BFB (FID)		7/6/98	ND	ND	ug/l	ND	50.0-150	85.8	50.0	50.0-150	85.8	50.0	50.0-150	85.8	50.0	50.0-150	85.8

Matrix Spike	0780100-MS1	7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5
Benzene		7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5
Toluene		7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5
Ethylbenzene		7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5
Xylenes (total)		7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5
Surrogate: 4-BFB (PID)		7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5

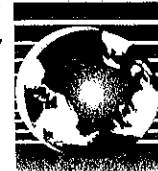
Matrix Spike Dup	0780100-MSD1	7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5
Benzene		7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5
Toluene		7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5
Ethylbenzene		7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5
Xylenes (total)		7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5
Surrogate: 4-BFB (PID)		7/6/98	20.0	17.5	ug/l	ND	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5	89.5	67.0-130	87.5

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Phillip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-8290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.
7504 S.W. Bridgeport Road
Portland, OR 97224
Project: TOSCO - Inman Oil Co.
Project Number: 4823-022-00
Project Manager: Bill Collins

Diesel and Heavy Range Hydrocarbons per NWTPH-DX Method/Quality Control
North Creek Analytical - Portland

Analyte	Date	Spike	Sample	QC	Units	Reporting Limit	Recov.	% Limit	% Notes*
---------	------	-------	--------	----	-------	-----------------	--------	---------	----------

Batch: 0780012	Date Prepared: 7/1/98	Extraction Method: TPH-D Extraction							
Blank	0780012-BLKI	ND	ND	ND	mg/l	0.250	0.500		
Diesel Range Organics	7/1/98								
Heavy Oil Range Hydrocarbons									
Surrogate: 1-Chlorooctadecane		0.100		0.110	"			50.0-150	110

LCS	0780012-BSI	2.50	2.35	2.35	mg/l			50.0-150	94.0
Diesel Range Organics	7/1/98							50.0-150	97.0
Surrogate: 1-Chlorooctadecane		0.100		0.0970	"			50.0-150	

LCS Dup	0780012-BSDI	2.50	2.38	2.38	mg/l			50.0-150	95.2
Diesel Range Organics	7/1/98							50.0-150	99.0
Surrogate: 1-Chlorooctadecane		0.100		0.0990	"			50.0-150	

Batch: 0780131	Date Prepared: 7/7/98	Extraction Method: TPH-D Extraction							
Blank	0780131-BLKI	ND	ND	ND	mg/kg dry	25.0	50.0		
Diesel Range Organics	7/7/98								
Heavy Oil Range Hydrocarbons									
Surrogate: 1-Chlorooctadecane		5.00		5.50	"			50.0-150	110

LCS	0780131-BSI	125	134	134	mg/kg dry			50.0-150	107
Diesel Range Organics	7/7/98							50.0-150	107
Surrogate: 1-Chlorooctadecane		5.00		5.35	"			50.0-150	

Duplicate	0780131-DUPI	ND	ND	ND	mg/kg dry			50.0-150	50.0
Diesel Range Organics	7/7/98								
Heavy Oil Range Hydrocarbons									
Surrogate: 1-Chlorooctadecane		5.36		6.16	"			50.0-150	115

Duplicate	0780131-DUP2	57.1	55.5	55.5	mg/kg dry			50.0-150	50.0
Diesel Range Organics	7/8/98								
Heavy Oil Range Hydrocarbons									
Surrogate: 1-Chlorooctadecane		5.49		5.55	"			50.0-150	101

Duplicate	0780131-DUP3	ND	ND	ND	mg/kg dry			50.0-150	50.0
Diesel Range Organics	7/8/98								
Heavy Oil Range Hydrocarbons									
Surrogate: 1-Chlorooctadecane		5.93		6.87	"			50.0-150	116

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.
 7504 S.W. Bridgeport Road
 Portland, OR 97224
 Project: TOSCO - Inman Oil Co.
 Project Number: 4823-022-00
 Project Manager: Bill Collins

Notes and Definitions

Note

DET Analyte DETECTED
 ND Analyte NOT DETECTED at or above the reporting limit
 NR Not Reported
 dry Sample results reported on a dry weight basis
 Recov. Recovery
 RPD Relative Percent Difference

North Creek Analytical, Inc.

Handwritten signature

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



**NORTH
CREEK
ANALYTICAL**
Environmental Laboratory Services

CHAIN OF CUSTODY REPORT

Work Order # **P806596**

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

REPORT TO: Good Energy		INVOICE TO:	
ATTENTION: Bill Collins		ATTENTION:	
ADDRESS:		ADDRESS:	
PHONE:		P.O. NUMBER:	
FAX:		NCA QUOTE #:	
PROJECT NAME: 10500 - Linnam Oil		Analysis Request:	
PROJECT NUMBER: 4823-022-00		NCA SAMPLE ID	
SAMPLED BY: CR2X		(Laboratory Use Only)	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DATE	
1. GET1-6.0	6-26-94 1445	X	
2. GET1-11.0	1452	X	
3. GET1-13.5	1456	X	
4. GET1-21.0	1302	X	
5. GET2-5.5	1345	X	
6. GET2-10.0	1380	X	
7. GET2-12.0	1355	X	
8. GET2-14.5	1402	X	
9. GET2-21.0	1406	X	
10. GET2-24.0	1415	X	
RELINQUISHED BY (Signature): [Signature]		DATE: 6/29/94	
PRINT NAME: [Signature]		FIRM: GCST	
DATE: 6/29/94		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/94	
PRINT NAME: Sara McClung		FIRM: NCA	
DATE: 6/29/94		TIME: 1406	
PRINT NAME:		FIRM:	
DATE:		TIME:	
ADDITIONAL REMARKS:		FIRM:	
DATE:		TIME:	

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses

☒ 6 ☐ 7 ☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Fuels & Hydrocarbon Analyses

☒ 3-4 ☐ 2 ☐ 1 ☐ Same Day

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charge

MATRIX (W, S, A, O) CONTAINERS # OF COMMENTS

S **1** **HOLD**



CHAIN OF CUSTODY REPORT

Work Order #

9806596

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Ninthus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2072

REPORT TO: <u>Geo Engineering</u> ATTENTION: <u>Bill Collins</u> ADDRESS: _____		INVOICE TO: _____ ATTENTION: _____ ADDRESS: _____	
PHONE: _____ FAX: _____		P.O. NUMBER: _____	
PROJECT NAME: <u>Torco-Tennon 01</u>		Analysis Request: _____	
PROJECT NUMBER: <u>1483-000-00</u>		NCA QUOTE #: _____	
SAMPLED BY: <u>CLH</u>		OTHER: <u>Specify:</u> _____	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	COMMENTS
1. <u>GEI3-3.5</u>	<u>626-18/120</u>		<u>S</u>
2. <u>GEI3-6.0</u>	<u>1215</u>		<u>HOLD</u>
3. <u>GEI3-8.5</u>	<u>1217</u>		
4. <u>GEI3-11.5</u>	<u>1222</u>		
5. <u>GEI3-16.0</u>	<u>1224</u>		
6. <u>GEI3-21.0</u>	<u>1235</u>		
7. <u>GEI4-6.0</u>	<u>0914</u>		
8. <u>GEI4-10.5</u>	<u>0910</u>		
9. <u>GEI4-13.0</u>	<u>0423</u>		
10. <u>GEI4-21.0</u>	<u>0431</u>		

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 7 5 4 3 2 1 Same Day

Fuels & Hydrocarbon Analyses: 5 3-4 2 1 Same Day

* Turnaround Requests less than standard may incur Rush Charge

RELINQUISHED BY (Signature): <u>[Signature]</u> DATE: <u>6/21/14</u>		RECEIVED BY (Signature): <u>[Signature]</u> DATE: <u>6/22/14</u>	
PRINT NAME: <u>Colony</u> FIRM: <u>DET</u> TIME: <u>140L</u>		PRINT NAME: <u>Sara McClurg</u> FIRM: <u>NCA</u> TIME: <u>140L</u>	
RELINQUISHED BY (Signature): _____		RECEIVED BY (Signature): _____	
PRINT NAME: _____ FIRM: _____ TIME: _____		PRINT NAME: _____ FIRM: _____ TIME: _____	
ADDITIONAL REMARKS: _____			

PAGE 6 OF 7



CHAIN OF CUSTODY REPORT

Work Order #

Proctor

18739 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) +81-9200 FAX +85-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-8290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7173 (503) 643-9200 FAX 644-2020

REPORT TO: <u>Goering, Bob</u> ATTENTION: <u>Bill Collins</u> ADDRESS: _____		INVOICE TO: _____ ATTENTION: _____ ADDRESS: _____	
PHONE: _____ FAX: _____		P.O. NUMBER: _____ NCA QUOTE #: _____	
PROJECT NAME: <u>Texas - Tinner Oil</u> PROJECT NUMBER: <u>1872-022-60</u>		Analysis Request: _____	
SAMPLED BY: <u>CRH</u>		Analysis Request: _____	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	Analysis Request: _____
1. <u>GEH-26.5</u>	<u>6/26/4635</u>		NWTPH-DX NWTPH-GX BTX
2. <u>GEH-31.0</u>	<u>044</u>		
3. <u>GEH-36.0</u>	<u>0445</u>		
4. <u>GEH-41.0</u>	<u>0450</u>		
5. <u>GEH-46.0</u>	<u>0455</u>		
6. <u>HAI-2.5</u>	<u>1605</u>		
7. <u>HAI-5.0</u>	<u>1610</u>		
8. <u>HAI-7.5</u>	<u>1143</u>		
9. <u>GEI-4</u>	<u>1036</u>		
10.			

RELINQUISHED BY (signature): <u>[Signature]</u> PRINT NAME: <u>Colby H. Hargis</u> FIRM: <u>GEI</u>	DATE: <u>6/29/48</u> TIME: <u>1406</u>	RECEIVED BY (signature): <u>[Signature]</u> PRINT NAME: <u>Sara McClung</u> FIRM: <u>NCA</u>	DATE: <u>6/29/48</u> TIME: <u>1406</u>
RELINQUISHED BY (signature): _____ PRINT NAME: _____ FIRM: _____		RECEIVED BY (signature): _____ PRINT NAME: _____ FIRM: _____	

PRINT NAME: _____ FIRM: _____	DATE: _____ TIME: _____	PRINT NAME: _____ FIRM: _____	DATE: _____ TIME: _____
--	--	--	--

TURNAROUND REQUEST in Business Days *			
Organic & Inorganic Analyses			
10	7	5	4
3	2	1	Same Day
Fuels & Hydrocarbon Analyses			
5	3-4	2	1
Standard			
OTHER Specify: _____			
* Turnaround Requests less than standard may incur Rush Charges			

MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
S	1	HOLD

NORTH CREEK ANALYTICAL



Environmental Laboratory Services

BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

Project: TOSCO - Inman Oil Co. Sampled: 6/29/98

Project Number: 4823-022-00

Received: 7/1/98

Reported: 7/16/98 23:08

GeoEngineers, Inc.
 7504 S.W. Bridgeport Road
 Portland, OR 97224

Project Manager: Bill Collins

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
--------------------	--------------------------	---------------	--------------

MW-1	P807031-01	Water	6/29/98
MW-2	P807031-02	Water	6/29/98
MW-3	P807031-03	Water	6/29/98
D-1	P807031-04	Water	6/29/98
HA2-2.5	P807031-05	Soil	6/29/98
HA3-2.5	P807031-06	Soil	6/29/98
HA4-2.5	P807031-07	Soil	6/29/98
HA4-5.0	P807031-08	Soil	6/29/98

North Creek Analytical, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document.
 This analytical report must be reproduced in its entirety.

Philip Nerenberg
 Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

Project: TOSCO - Inman Oil Co.

GeoEngineers, Inc.

Project Number: 4823-022-00

7504 S.W. Bridgeport Road

Project Manager: Bill Collins

Portland, OR 97224

Gasoline Hydrocarbons per NW TPH-Gx Method and BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch	Date	Prepared	Analysed	Surrogate	Reporting	Limit	Result	Units	Notes*
---------	-------	------	----------	----------	-----------	-----------	-------	--------	-------	--------

MW-1 P807031-01

Benzen	0780100	7/9/98	7/6/98	0.500	ND	ug/l	ND	0.500	ND	Water
Toluene	"	"	"	0.500	ND	ug/l	ND	0.500	ND	"
Ethylbenzene	"	"	"	0.500	ND	ug/l	ND	0.500	ND	"
Xylenes (total)	"	"	"	1.00	ND	ug/l	ND	1.00	ND	"
Gasoline Range Hydrocarbons	"	"	"	80.0	ND	ug/l	ND	80.0	ND	"
Surrogate: 4-BFB (PID)	"	"	"	50.0-150	87.0	%	ND	87.0	85.4	"
Surrogate: 4-BFB (FID)	"	"	"	50.0-150	85.4	%	ND	85.4	85.4	"

MW-2 P807031-02

Benzen	0780100	7/9/98	7/6/98	0.500	ND	ug/l	ND	0.500	ND	Water
Toluene	"	"	"	0.500	ND	ug/l	ND	0.500	ND	"
Ethylbenzene	"	"	"	0.500	ND	ug/l	ND	0.500	ND	"
Xylenes (total)	"	"	"	1.00	ND	ug/l	ND	1.00	ND	"
Gasoline Range Hydrocarbons	"	"	"	80.0	ND	ug/l	ND	80.0	ND	"
Surrogate: 4-BFB (PID)	"	"	"	50.0-150	95.4	%	ND	95.4	92.2	"
Surrogate: 4-BFB (FID)	"	"	"	50.0-150	92.2	%	ND	92.2	92.2	"

MW-3 P807031-03

Benzen	0780100	7/9/98	7/6/98	0.500	ND	ug/l	ND	0.500	ND	Water
Toluene	"	"	"	0.500	ND	ug/l	ND	0.500	ND	"
Ethylbenzene	"	"	"	0.500	ND	ug/l	ND	0.500	ND	"
Xylenes (total)	"	"	"	1.00	ND	ug/l	ND	1.00	ND	"
Gasoline Range Hydrocarbons	"	"	"	80.0	ND	ug/l	ND	80.0	ND	"
Surrogate: 4-BFB (PID)	"	"	"	50.0-150	95.0	%	ND	95.0	92.8	"
Surrogate: 4-BFB (FID)	"	"	"	50.0-150	92.8	%	ND	92.8	92.8	"

North Creek Analytical, Inc. *Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9406 S.W. Milbush Avenue, Beaverton, OR 97008-7132

NORTH CREEK ANALYTICAL Environmental Laboratory Services



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.
7504 S.W. Bridgeport Road
Portland, OR 97224

Project: TOSCO - Inman Oil Co.
Project Number: 4823-022-00
Project Manager: Bill Collins

Sampled: 6/29/98
Received: 7/1/98
Reported: 7/16/98 23:08

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method North Creek Analytical - Portland

Analyte	Batch	Date	Prepared	Date	Analyzed	Surrogate	Limit	Reporting	Result	Units	Notes*
---------	-------	------	----------	------	----------	-----------	-------	-----------	--------	-------	--------

MW-1						P807031-01	0.250	ND	ND	mg/l	
Diesel Range Organics	0780105	7/6/98			7/6/98		0.500	ND	ND	mg/l	
Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	50.0-150	"	116	%	

MW-2						P807031-02	0.250	ND	ND	mg/l	
Diesel Range Organics	0780105	7/6/98			7/8/98		0.500	ND	ND	mg/l	
Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	50.0-150	"	90.0	%	

MW-3						P807031-03	0.250	ND	ND	mg/l	
Diesel Range Organics	0780105	7/6/98			7/8/98		0.500	ND	ND	mg/l	
Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	50.0-150	"	83.5	%	

D-1						P807031-04	0.250	ND	ND	mg/l	
Diesel Range Organics	0780105	7/6/98			7/8/98		0.500	ND	ND	mg/l	
Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	50.0-150	"	92.0	%	

HA2-2.5						P807031-05	25.0	ND	ND	mg/kg dry	
Diesel Range Organics	0780148	7/8/98			7/9/98		50.0	ND	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	50.0-150	"	102	%	

HA3-2.5						P807031-06	25.0	ND	ND	mg/kg dry	
Diesel Range Organics	0780148	7/8/98			7/9/98		50.0	ND	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	50.0-150	"	124	%	

HA4-2.5						P807031-07	25.0	ND	ND	mg/kg dry	
Diesel Range Organics	0780148	7/8/98			7/9/98		50.0	ND	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	50.0-150	"	104	%	

HA4-5.0						P807031-08	25.0	ND	ND	mg/kg dry	
Diesel Range Organics	0780148	7/8/98			7/9/98		50.0	ND	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons	"	"	"	"	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	"	"	"	"	"	"	50.0-150	"	103	%	

North Creek Analytical, Inc.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montigomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nilmbus Avenue, Beaverton, OR 97008-7132

* Refer to end of report for text of notes and definitions.

NORTH CREEK ANALYTICAL Environmental Laboratory Services



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.
7504 S.W. Bridgeport Road
Portland, OR 97224

Project: TOSCO - Inman Oil Co.

Project Number: 4823-022-00

Project Manager: Bill Collins

Sampled: 6/29/98

Received: 7/1/98

Reported: 7/16/98 23:08

Dry Weight Determination North Creek Analytical - Portland

Sample Name	Lab ID	Matrix	Result	Units
-------------	--------	--------	--------	-------

HA2-2.5	P807031-05	Soil	92.1	%
HA3-2.5	P807031-06	Soil	92.8	%
HA4-2.5	P807031-07	Soil	92.2	%
HA4-5.0	P807031-08	Soil	92.2	%

North Creek Analytical, Inc.

[Signature]

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.
 7504 S.W. Bridgeport Road
 Portland, OR 97224

Project: TOSCO - Inman Oil Co.
 Project Number: 4823-022-00
 Project Manager: Bill Collins

Sampled: 6/29/98
 Received: 7/1/98
 Reported: 7/16/98 23:08

Gasoline Hydrocarbons per NW TPH-GX Method and BTEX per EPA Method 8020A/Quality Control

North Creek Analytical - Portland

Analyte	Date	Spike	Sample	QC	Units	Reporting Limit	Recovery	RPD	RPD	% Notes*
---------	------	-------	--------	----	-------	-----------------	----------	-----	-----	----------

Batch: 0780100										
Date Prepared: 7/9/98										
Extraction Method: EPA 5030										
Blank	0780100-BLKI	7/6/98	ND	ND	ug/l	0.500	ND	0.500	0.500	
Benzene			ND	ND		0.500	ND	0.500	0.500	
Toluene			ND	ND		0.500	ND	0.500	0.500	
Ethylbenzene			ND	ND		1.00	ND	1.00	1.00	
Xylenes (total)			ND	ND		80.0	ND	80.0	80.0	
Gasoline Range Hydrocarbons			ND	ND		47.8	ND	47.8	47.8	
Surrogate: 4-BFB (PID)		50.0	47.8	47.8		50.0-150	95.6	95.6	95.6	
Surrogate: 4-BFB (FID)		50.0	46.2	46.2		50.0-150	92.4	92.4	92.4	
LCS	0780100-BS1	7/6/98	1250	1100	ug/l	50.0-150	88.0	88.0	88.0	
Gasoline Range Hydrocarbons			7/6/98	ND	ug/l	50.0-150	85.8	85.8	85.8	
Surrogate: 4-BFB (FID)		50.0	49.4	49.4		50.0-150	98.8	98.8	98.8	
LCS	0780100-BS2	7/6/98	20.0	18.9	ug/l	67.0-130	94.5	94.5	94.5	
Benzene			20.0	18.3		75.0-126	91.5	91.5	91.5	
Toluene			20.0	18.9		76.0-124	94.5	94.5	94.5	
Ethylbenzene			60.0	59.0		75.0-126	98.3	98.3	98.3	
Xylenes (total)			50.0	49.8		50.0-150	99.6	99.6	99.6	
Surrogate: 4-BFB (PID)		"	"	"		50.0-150	99.6	99.6	99.6	
Duplicate	0780100-DUPI	7/6/98	ND	ND	ug/l	50.0-150	85.8	85.8	85.8	
Gasoline Range Hydrocarbons			7/6/98	ND	ug/l	50.0-150	85.8	85.8	85.8	
Surrogate: 4-BFB (FID)		50.0	42.9	42.9		50.0-150	99.4	99.4	99.4	
LCS	0780100-MSI	7/6/98	20.0	17.5	ug/l	67.0-130	87.5	87.5	87.5	
Benzene			20.0	17.9		75.0-126	89.5	89.5	89.5	
Toluene			20.0	17.9		76.0-124	89.5	89.5	89.5	
Ethylbenzene			60.0	55.3		75.0-126	92.2	92.2	92.2	
Xylenes (total)			50.0	49.7		50.0-150	99.4	99.4	99.4	
Surrogate: 4-BFB (PID)		"	"	"		50.0-150	99.4	99.4	99.4	
Matrix Spike	0780100-MSD1	7/6/98	20.0	17.5	ug/l	67.0-130	87.5	87.5	87.5	
Benzene			20.0	17.8		75.0-126	89.0	89.0	89.0	
Toluene			20.0	17.7		76.0-124	88.5	88.5	88.5	
Ethylbenzene			60.0	54.4		75.0-126	90.7	90.7	90.7	
Xylenes (total)			50.0	48.6		50.0-150	97.2	97.2	97.2	
Surrogate: 4-BFB (PID)		"	"	"		50.0-150	97.2	97.2	97.2	

North Creek Analytical, Inc. *Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S W Nilmbus Avenue, Beaverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc. 7504 S.W. Bridgeport Road
Project: TOSCO - Inman Oil Co. Project Number: 4823-022-00
Project Manager: Bill Collins
Sampled: 6/29/98 Received: 7/1/98 Reported: 7/16/98 23:08

Diesel and Heavy Range Hydrocarbons per NWTPH-DX Method/Quality Control
North Creek Analytical - Portland

Analyte	Date	Spike	Sample	QC	Units	Recovery	Limit	%	RPD	%	Notes*
---------	------	-------	--------	----	-------	----------	-------	---	-----	---	--------

Batch: 0780105 Date Prepared: 7/6/98 Extraction Method: TPH-D Extraction

Blank	0780105-BLK1	7/6/98	ND	ND	mg/l	0.250	0.500				
Diesel Range Organics											
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

Blank	0780105-BLK2	7/8/98	ND	ND	mg/l	0.250	0.500				
Diesel Range Organics											
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

LCS	0780105-BL1	7/6/98	2.50	2.49	mg/l	99.6	111				
Diesel Range Organics											
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

LCS Dup	0780105-BSD1	7/6/98	2.50	2.51	mg/l	100	50.0	0.401			
Diesel Range Organics											
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

Batch: 0780148 Date Prepared: 7/7/98 Extraction Method: TPH-D Extraction

Blank	0780148-BLK1	7/8/98	ND	ND	mg/kg dry	25.0	50.0				
Diesel Range Organics											
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

Blank	0780148-BLK2	7/9/98	ND	ND	mg/kg dry	25.0	50.0				
Diesel Range Organics											
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

LCS	0780148-BL1	7/8/98	125	102	mg/kg dry	81.6	50.0-150	88.6			
Diesel Range Organics											
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

Duplicate	0780148-DUP1	7/8/98	ND	ND	mg/kg dry	50.0	50.0				
Diesel Range Organics											
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

Geoenineers, Inc. 7504 S.W. Bridgeport Road Portland, OR 97224
Project: TOSCO - Inman Oil Co. Project Number: 4823-022-00 Project Manager: Bill Collins
Sampled: 6/29/98 Received: 7/1/98 Reported: 7/16/98 23:08

Diesel and Heavy Range Hydrocarbons per NW/TPH-DX Method/Quality Control
North Creek Analytical - Portland

Analyte	Date	Spike	Sample	QC	Units	Reporting Limit	Recov. %	RPD	% Notes*
---------	------	-------	--------	----	-------	-----------------	----------	-----	----------

Duplicate	0780148-DUP2	0780148-DUP2	ND	ND	mg/kg dry	50.0	50.0	50.0	118
Diesel Range Organics	7/9/98	ND	ND	ND	mg/kg dry	50.0	50.0	50.0	
Heavy Oil Range Hydrocarbons	"	ND	ND	ND	"	50.0-150	50.0	50.0	118
Surrogate: 1-Chlorooctadecane	"	6.75	7.97	5.54	"	50.0-150	50.0	50.0	102

Duplicate	0780148-DUP3	0780148-DUP3	ND	ND	mg/kg dry	50.0	50.0	50.0	102
Diesel Range Organics	7/9/98	ND	ND	ND	mg/kg dry	50.0	50.0	50.0	
Heavy Oil Range Hydrocarbons	"	ND	ND	ND	"	50.0-150	50.0	50.0	102
Surrogate: 1-Chlorooctadecane	"	5.43	5.54	5.54	"	50.0-150	50.0	50.0	102

North Creek Analytical, Inc. *Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S W Nimbus Avenue, Beaverton, OR 97008-7132

NORTH CREEK ANALYTICAL



Environmental Laboratory Services

BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

Geofinchem, Inc.

Project: TOSCO - Inman Oil Co.

Sampled: 6/29/98

7504 S.W. Bridgeport Road

Project Number: 4823-022-00

Received: 7/1/98

Portland, OR 97224

Project Manager: Bill Collins

Reported: 7/16/98 23:08

Notes and Definitions

Note

Sample extract was cleaned-up to remove suspected biogenic interferences.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

Recovery

Recovery

RPD

Relative Percent Difference

North Creek Analytical, Inc.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



**NORTH
CREEK
ANALYTICAL**
Environmental Laboratory Services

CHAIN OF CUSTODY REPORT

Work Order #

P807031

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

REPORT TO: Geo Engineers		INVOICE TO:	
ATTENTION: Bill Collins		ATTENTION: SUND	
ADDRESS: 7304 520 Bridgeway Rd., Portland 97224		ADDRESS:	
PHONE: 624-4274 FAX: 620-5940		P.O. NUMBER:	
PROJECT NAME: TOSCO - TUNNAN CR		NCA QUOTE #:	
PROJECT NUMBER: 4523-022-00		Analysis Request:	
SAMPLED BY: CRH		Analysis Request:	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	Analysis Request:
1. MW-1	6-24-98/1540		NWTPH-Dx
2. MW-2	1630		NWTPH-Gx
3. MW-3	1700		BETx 8020
4. D-1	1625		
5. HA2-2.5	1545		
6. HA3-2.5	1615		
7. HA4-2.5	1625		
8. HA4-5.0	1625		
9.			
10.			
RELINQUISHED BY (Signature): [Signature]		DATE: 6/30/98	
PRINT NAME: Colby Hunt		PRINT NAME: Sue Vanderhoff	
FIRM: GET		FIRM: NCA	
DATE: 1700		DATE: 7/1/98	
RELINQUISHED BY (Signature): [Signature]		RECEIVED BY (Signature): [Signature]	
PRINT NAME:		PRINT NAME:	
FIRM:		FIRM:	
DATE:		DATE:	
ADDITIONAL REMARKS:		ADDITIONAL REMARKS:	

TURNAROUND REQUEST in Business Days *

☒ 7	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1
Organic & Inorganic Analyses					
☒ 5	☐ 3-4	☐ 2	☐ 1	☐ Same Day	
Fuels & Hydrocarbon Analyses					

☐ OTHER	Specify:
--------------------------------	----------

MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
W	1	

TURNAROUND REQUEST less than standard may incur Rush Charge *	
↑	↑



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc. 7504 S.W. Bridgeport Road Portland, OR 97224
 Project: TOSCO - Inman Oil Co. Project Number: 4823-022-00 Project Manager: Bill Collins
 Sampled: 6/25/98 Received: 6/30/98 Reported: 7/16/98 23:26

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW1-2.5	P806597-01	Soil	6/25/98
MW1-10.0	P806597-04	Soil	6/25/98
MW2-10.0	P806597-20	Soil	6/25/98
MW2-16.5	P806597-21	Soil	6/25/98
MW3-4.0	P806597-28	Soil	6/25/98
MW3-11.5	P806597-31	Soil	6/25/98

North Creek Analytical, Inc. The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg
 Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimhous Avenue Breverton, OR 97008-7142



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc. 7504 S.W. Bridgeport Road Portland, OR 97224
Project: TOSCO - Inman Oil Co. Project Number: 4823-022-00 Project Manager: Bill Collins
Sampled: 6/25/98 Received: 6/30/98 Reported: 7/16/98 23:26

Gasoline Hydrocarbons per NW TPH-Cx Method
North Creek Analytical - Portland

Analyte	Batch	Date	Surrogate	Reporting	Limit	Result	Units	Notes*
---------	-------	------	-----------	-----------	-------	--------	-------	--------

MW2-10.0	Gasoline Range Hydrocarbons	0780102	7/6/98	7/6/98	P806597-20	4.00	5.18	Soil mg/kg dry
	Surrogate: a,a-TFT	"	"	"	50.0-150		107	%

MW3-4.0	Gasoline Range Hydrocarbons	0780102	7/6/98	7/7/98	P806597-28	4.00	ND	Soil mg/kg dry
	Surrogate: a,a-TFT	"	"	"	50.0-150		114	%

North Creek Analytical, Inc.

Handwritten signature

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

*Refer to end of report for text of notes and definitions.



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

Project: TOSCO - Inman Oil Co.

Geoburgers, Inc.

Project Number: 4823-022-00

7504 S.W. Bridgeport Road

Project Manager: Bill Collins

Portland, OR 97224

Reported: 7/16/98 23:26

Received: 6/30/98

Sampled: 6/25/98

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method
North Creek Analytical - Portland

Analyte	Batch	Date	Prepared	Date	Surrogate	Limit	Reporting	Result	Units	Notes*
---------	-------	------	----------	------	-----------	-------	-----------	--------	-------	--------

MW1-2.5	Diesel Range Organics	0780131	7/7/98	7/8/98	P806597-01	25.0	57.1	127	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	50.0	99.3		%	
	Surrogate: 1-Chlorooctadecane	"	"	"	"	50.0-150				

MW1-10.0	Diesel Range Organics	0780131	7/7/98	7/7/98	P806597-04	25.0	ND	ND	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	50.0	ND	110	%	
	Surrogate: 1-Chlorooctadecane	"	"	"	"	50.0-150				

MW2-10.0	Diesel Range Organics	0780131	7/7/98	7/7/98	P806597-20	25.0	ND	ND	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	50.0	ND	116	%	
	Surrogate: 1-Chlorooctadecane	"	"	"	"	50.0-150				

MW2-16.5	Diesel Range Organics	0780131	7/7/98	7/7/98	P806597-21	25.0	ND	ND	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	50.0	ND	86.4	%	
	Surrogate: 1-Chlorooctadecane	"	"	"	"	50.0-150				

MW3-4.0	Diesel Range Organics	0780131	7/7/98	7/8/98	P806597-28	25.0	ND	658	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	50.0	ND	95.9	%	
	Surrogate: 1-Chlorooctadecane	"	"	"	"	50.0-150				

MW3-11.5	Diesel Range Organics	0780131	7/7/98	7/7/98	P806597-31	25.0	ND	ND	mg/kg dry	Soil
	Heavy Oil Range Hydrocarbons	"	"	"	"	50.0	ND	113	%	
	Surrogate: 1-Chlorooctadecane	"	"	"	"	50.0-150				

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Reaverton, OR 97008-7132

GeoEngineers, Inc.

7504 S.W. Bridgeport Road

Portland, OR 97224

Project: TOSCO - Inman Oil Co.

Project Number: 4823-022-00

Project Manager: Bill Collins

Sampled: 6/25/98

Received: 6/30/98

Reported: 7/16/98 23:26

Dry Weight Determination

North Creek Analytical - Portland

Sample Name	Lab ID	Matrix	Result	Units
-------------	--------	--------	--------	-------

MW1-2.5	P806597-01	Soil	91.0	%
MW1-10.0	P806597-04	Soil	94.4	%
MW2-10.0	P806597-20	Soil	93.5	%
MW2-16.5	P806597-21	Soil	93.4	%
MW3-4.0	P806597-28	Soil	88.9	%
MW3-11.5	P806597-31	Soil	93.2	%

North Creek Analytical, Inc.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc. 7504 S.W. Bridgeport Road Portland, OR 97224
Project: TOSCO - Inman Oil Co. Sampled: 6/25/98
Project Number: 4823-022-00 Received: 6/30/98
Project Manager: Bill Collins Reported: 7/16/98 23:26

Gasoline Hydrocarbons per NW TPH-Gx Method/Quality Control
North Creek Analytical - Portland

Analyte	Date	Spike	Sample	QC	Reporting Limit	Recovery	RPD	% Notes*
---------	------	-------	--------	----	-----------------	----------	-----	----------

Batch: 0780102	Date Prepared: 7/6/98	Extraction Method: MeOH Extraction						
Blank	0780102-BLKI							
Gasoline Range Hydrocarbons	7/6/98	ND	mg/kg dry	4.00	50.0-150	108		
Surrogate: a,a-TFT		2.50		2.70				
LCS	0780102-BSI							
Gasoline Range Hydrocarbons	7/6/98	31.3	23.0	mg/kg dry	50.0-150	73.5		
Surrogate: a,a-TFT		2.50	2.98		50.0-150	119		
Duplicate	0780102-DUPI							
Gasoline Range Hydrocarbons	7/6/98	5.18	ND	mg/kg dry	50.0-150	99.3		
Surrogate: a,a-TFT		5.35	5.31		50.0-150	50.0		

North Creek Analytical, Inc. *Refer to end of report for text of notes and definitions.

Phillip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.
7504 S.W. Bridgeport Road
Portland, OR 97224

Project: TOSCO - Inman Oil Co.
Project Number: 4823-022-00
Project Manager: Bill Collins

Sampled: 6/25/98
Received: 6/30/98
Reported: 7/16/98 23:26

Diesel and Heavy Range Hydrocarbons per NWTPH-DX Method/Quality Control
North Creek Analytical - Portland

Analyte	Date	Spike	Sample	QC	Units	Reporting Limit	Recovery	% Limit	RPD	RPD	% Notes*
---------	------	-------	--------	----	-------	-----------------	----------	---------	-----	-----	----------

Batch: 0780131 Date Prepared: 7/7/98 Extraction Method: TPH-D Extraction											
Blank	0780131-BLKI	7/7/98	ND	ND	mg/kg dry	25.0	50.0				
Diesel Range Organics		7/7/98	ND	ND	mg/kg dry	25.0	50.0				
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

LC5	0780131-B51	7/7/98	125	134	mg/kg dry	50.0-150	107				
Diesel Range Organics		7/7/98	ND	ND	mg/kg dry	50.0	50.0				
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

Duplicate	0780131-DUP1	7/7/98	ND	ND	mg/kg dry	50.0	50.0				
Diesel Range Organics		7/7/98	ND	ND	mg/kg dry	50.0	50.0				
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

Duplicate	0780131-DUP2	7/8/98	57.1	55.5	mg/kg dry	50.0	50.0	2.84			
Diesel Range Organics		7/8/98	57.1	55.5	mg/kg dry	50.0	50.0	2.84			
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

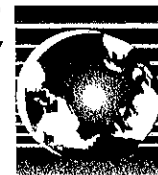
Duplicate	0780131-DUP3	7/8/98	ND	ND	mg/kg dry	50.0	50.0				
Diesel Range Organics		7/8/98	ND	ND	mg/kg dry	50.0	50.0				
Heavy Oil Range Hydrocarbons											
Surrogate: 1-Chlorooctadecane											

North Creek Analytical, Inc.

* Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 1115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



80THELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.
7504 S.W. Bridgeport Road
Portland, OR 97224
Project: TOSCO - Inman Oil Co.
Project Number: 4823-022-00
Project Manager: Bill Collins
Sampled: 6/25/98
Received: 6/30/98
Reported: 7/16/98 23:26

Notes and Definitions

#	Note

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
Recov. Recovery
RPD Relative Percent Difference

North Creek Analytical, Inc.

[Signature]

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Alimbus Avenue, Beaverton, OR 97008-7132



18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CHAIN OF CUSTODY REPORT

Work Order # **P806597**

REPORT TO:

GoEnergies

ATTENTION:

Bill Collins

ADDRESS:

7504 SW Bridge Ave
Portland OR 97224

PHONE:

503-922-4400 FAX: 503-944-0000

PROJECT NAME:

Texas-Turnaround Oil

PROJECT NUMBER:

49273-02-00

SAMPLED BY:

CRA

CLIENT SAMPLE IDENTIFICATION

SAMPLING DATE/TIME

NCA SAMPLE ID (Laboratory Use Only)

Analysis Request

P.O. NUMBER:

NCA QUOTE #:

DATE: 6/29/04

PRINT NAME:

TIME: 1405

RECEIVED BY:

PRINT NAME:

DATE: 6/29/04

FIRM: GET

DATE: 6/29/04

1. MW1-2.5

6/25-42/0412

0414

X

X

X

X

X

X

X

X

X

X

X

X

2. MW1-5.0

0414

0420

0425

0434

0435

0440

0443

0445

0448

0451

0454

0457

0460

0463

3. MW1-7.5

0414

0420

0425

0434

0435

0440

0443

0445

0448

0451

0454

0457

0460

0463

4. MW1-10.0

0414

0420

0425

0434

0435

0440

0443

0445

0448

0451

0454

0457

0460

0463

5. MW1-12.5

0414

0420

0425

0434

0435

0440

0443

0445

0448

0451

0454

0457

0460

0463

6. MW1-15.0

0414

0420

0425

0434

0435

0440

0443

0445

0448

0451

0454

0457

0460

0463

7. MW1-17.5

0414

0420

0425

0434

0435

0440

0443

0445

0448

0451

0454

0457

0460

0463

8. MW1-20

0414

0420

0425

0434

0435

0440

0443

0445

0448

0451

0454

0457

0460

0463

9. MW1-22.5

0414

0420

0425

0434

0435

0440

0443

0445

0448

0451

0454

0457

0460

0463

10. MW1-25.0

0414

0420

0425

0434

0435

0440

0443

0445

0448

0451

0454

0457

0460

0463

RELINQUISHED BY:

Signature

DATE: 6/29/04

PRINT NAME:

FIRM: GET

TIME: 1405

RECEIVED BY:

PRINT NAME:

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

PRINT NAME:

FIRM: GET

TIME: 1405

RECEIVED BY:

PRINT NAME:

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

RELINQUISHED BY:

Signature

DATE: 6/29/04

PRINT NAME:

FIRM: GET

TIME: 1405

RECEIVED BY:

PRINT NAME:

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

PRINT NAME:

FIRM: GET

TIME: 1405

RECEIVED BY:

PRINT NAME:

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

ADDITIONAL REMARKS:

Signature

DATE: 6/29/04

PRINT NAME:

FIRM: GET

TIME: 1405

RECEIVED BY:

PRINT NAME:

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

PRINT NAME:

FIRM: GET

TIME: 1405

RECEIVED BY:

PRINT NAME:

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04

FIRM: NCA

TIME: 1405

DATE: 6/29/04



CHAIN OF CUSTODY REPORT

Work Order #

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

REPORT TO: Geo Engineers			INVOICE TO:											
ATTENTION: Bill Collins			ATTENTION:											
ADDRESS:			ADDRESS:											
PHONE:			P.O. NUMBER:											
FAX:			NCA QUOTE #:											
PROJECT NAME: 4873-022-00			Analysis Request											
PROJECT NUMBER: 10540-7-11-01			NCA QUOTE #:											
SAMPLED BY: CRX			TURNAROUND REQUEST in Business Days *											
CLIENT SAMPLE IDENTIFICATION			Matrix (W, S, A, O)											
SAMPLING DATE/TIME			# OF CONTAINERS											
NCA SAMPLE ID (Laboratory Use Only)			COMMENTS											
1. MW1-27.5			6/25-48/1000			5			1			H2O		
2. MW1-30			6/25-48/0948											
3. MW1-32.5			/ 1006											
4. MW1-35.0			/ 1010											
5. MW1-38.5			/ 1030											
6. MW1-45			/ 1035											
7. MW2-2.5			/ 1300											
8. MW2-5.0			/ 1304											
9. MW2-7.5			/ 1310											
10. MW2-10.0			/ 1315											
RELINQUISHED BY (Signature):			DATE: 6/29/98			RECEIVED BY (Signature):			DATE: 6-29-98					
PRINT NAME: Colby			FIRM: GET			PRINT NAME: Sara McClung			FIRM: NCA					
RELINQUISHED BY (Signature):			DATE:			RECEIVED BY (Signature):			DATE:					
PRINT NAME:			FIRM:			PRINT NAME:			FIRM:					
ADDITIONAL REMARKS:			TIME:			PRINT NAME:			FIRM:					



18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-3992
East 11115 Montgomery, Suite B, Spokane WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7133 (503) 643-9200 FAX 644-2202

CHAIN OF CUSTODY REPORT

Work Order #

Source: *Journal of the American Statistical Association*, 83, 1988, p. 100.

REPORT TO: Good Enrichment		INVOICE TO:	
ATTENTION: Bill Collins		ATTENTION: Glenn	
ADDRESS:		ADDRESS:	
PHONE:		P.O. NUMBER:	
FAX:		NCA QUOTE #:	
PROJECT NAME: 10540 - Immune Oil		Analysis Request:	
PROJECT NUMBER: W423-02-00			
SAMPLED BY: CRX			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	
1. MW2-16.5	6/25/05 1317		X
2. MW2-21.5	1322		
3. MW2-26.5	1327		
4. MW2-31.5	1331		
5. MW2-36.5	1335		
6. MW2-41.5	1340		
7. MW2-46.5	1345		
8. MW3-4.0	1458		X
9. MW3-6.5	1501		X
10. MW3-9.0	1605		
RELINQUISHED BY (Signature): [Signature]		DATE: 6/24/05	
PRINT NAME: Colby Jones		FIRM: GET	
RELINQUISHED BY (Signature): [Signature]		DATE: 6/24/05	
PRINT NAME: Colby Jones		FIRM: GET	
FIRM: GET		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/24/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	
PRINT NAME: Sara McClurg		FIRM: NCA	
FIRM: NCA		TIME: 1405	
RECEIVED BY (Signature): [Signature]		DATE: 6/29/05	



18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-3992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CHAIN OF CUSTODY REPORT

Work Order #

REPORT TO: Goofing nazi		INVOICE TO:	
ATTENTION: Bill Collins		ATTENTION:	
ADDRESS:		ADDRESS:	
PHONE:	FAX:	P.O. NUMBER:	NCA QUOTE #:
PROJECT NAME: TO300-Inman O.I.		Analysis Request:	
PROJECT NUMBER: 4823-072-00		NCA SAMPLE ID (Laboratory Use Only)	
SAMPLED BY: CAH		DATE/TIME	
CLIENT SAMPLE IDENTIFICATION		DATE/TIME	

CLIENT SAMPLE IDENTIFICATION	DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
1. MW3-11.5	6-25-09/1510						
2. MW3-14.0	1512						
3. MW3-16.5	1516						
4. MW3-19.0	1518						
5. MW3-21.5	1521						
6. MW3-26.5	1525						
7. MW3-31.5	1532						
8. MW3-36.5	1540						
9. MW3-41.5	1541						
10. MW3-46.5	1550						

PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
PRINT NAME: Colin Hoot		FIRM: CAH		DATE: 6/24/09		TIME: 1455	
REINQUISHED BY (Signature):		FIRM: CAH		DATE: 6/24/			



NORTH CREEK ANALYTICAL
Environmental Laboratory Services

JUL 27 1998

W H C

BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

GeoEngineers, Inc.	Project: TOSCO - Inman Oil Co.	Sampled: 6/26/98
7504 S.W. Bridgeport Road	Project Number: 4823-022-00	Received: 6/29/98
Portland, OR 97224	Project Manager: Bill Collins	Reported: 7/24/98 14:40

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
--------------------	--------------------------	---------------	--------------

GB11-13.5

P807420-01

Soil

6/26/98

North Creek Analytical, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

GeoEngineers

JUL 27 1998

Routing

File

BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210



NORTH CREEK ANALYTICAL
Environmental Laboratory Services

Project: TOSCO - Inman Oil Co.

Sampled: 6/26/98

Project Number: 4823-022-00

Received: 6/29/98

Project Manager: Bill Collins

Reported: 7/24/98 14:40

GeoEngineers, Inc.

7504 S.W. Bridgeport Road

Portland, OR 97224

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method
North Creek Analytical - Portland

Analyte	Batch	Date	Date	Surrogate	Limit	Result	Units	Notes*
---------	-------	------	------	-----------	-------	--------	-------	--------

GEII-13.5

P807420-01

Soil

Diesel Range Organics

0780568

7/22/98

7/22/98

25.0

ND

mg/kg dry

1

Heavy Oil Range Hydrocarbons

"

"

"

50.0-150

ND

%

1

Surrogate: 1-Chlorooctadecane

"

"

"

50.0-150

ND

%

1

North Creek Analytical, Inc. *Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Milbush Avenue, Beaverton, OR 97008-7132

GeoEngineers

JUL 27 1998

BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

NORTH CREEK ANALYTICAL
Environmental Laboratory Services



Dry Weight Determination
North Creek Analytical - Portland

GeoEngineers, Inc. 7504 S.W. Bridgeport Road Portland, OR 97224	Project: TOSCO - Inman Oil Co. Project Number: 4823-022-00 Project Manager: Bill Collins	Sampled: 6/26/98 Received: 6/29/98 Reported: 7/24/98 14:40
---	--	--

Sample Name	Lab ID	Matrix	Result	Units
-------------	--------	--------	--------	-------

GEH-13.5	P807420-01	Soil	93.4	%
----------	------------	------	------	---

North Creek Analytical, Inc.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9406 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



GeoEngineers
JUL 27 1998

BOTHELL (425) 420-9200 ■ FAX 420-9210
SPOKANE (509) 924-9200 ■ FAX 924-9290
PORTLAND (503) 906-9200 ■ FAX 906-9210

Routing _____
File _____

GeoEngineers, Inc. Project: TOSCO - Inman Oil Co. Sampled: 6/26/98
7504 S.W. Bridgeport Road Project Number: 4823-022-00 Received: 6/29/98
Portland, OR 97224 Project Manager: Bill Collins Reported: 7/24/98 14:40

Diesel and Heavy Range Hydrocarbons per NW/TPH-DX Method/Quality Control
North Creek Analytical - Portland

Analyte	Date	Spike	Sample	QC	Result	Units	Recovery Limits	% Recov.	RPD	% Notes*
---------	------	-------	--------	----	--------	-------	-----------------	----------	-----	----------

Batch: 0780568 Date Prepared: 7/22/98 Extraction Method: TPH-D Extraction

Blank	0780568-BLK1	7/22/98	ND	mg/kg dry	25.0	50.0	50.0-150	102		
Diesel Range Organics			ND							
Heavy Oil Range Hydrocarbons			ND							
Surrogate: 1-Chlorooctadecane		5.00	5.10							

Blank	0780568-BLK2	7/23/98	ND	mg/kg dry	25.0	50.0	50.0-150	125		
Diesel Range Organics			ND							
Heavy Oil Range Hydrocarbons			ND							
Surrogate: 1-Chlorooctadecane		5.00	6.25							

LCS	0780568-BL1	7/22/98	125	mg/kg dry	98.4	50.0-150	108			
Diesel Range Organics			123							
Surrogate: 1-Chlorooctadecane		5.00	5.40							

Duplicate	0780568-DUP1	7/23/98	79.7	mg/kg dry	26.9	50.0	50.0-150	103		
Diesel Range Organics			60.8							
Heavy Oil Range Hydrocarbons			229							
Surrogate: 1-Chlorooctadecane		5.42	5.59							

Duplicate	0780568-DUP2	7/22/98	ND	mg/kg dry	50.0	50.0	50.0-150	117		
Diesel Range Organics			ND							
Heavy Oil Range Hydrocarbons			ND							
Surrogate: 1-Chlorooctadecane		6.31	7.38							

2										
---	--	--	--	--	--	--	--	--	--	--

North Creek Analytical, Inc. *Refer to end of report for text of notes and definitions.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

GeoEngineers

JUL 27 1998

Routing

File

BOTHELL ■ (425) 420-9200 ■ FAX 420-9210
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 906-9200 ■ FAX 906-9210

NORTH CREEK ANALYTICAL
Environmental Laboratory Services



GeoEngineers, Inc.
7504 S.W. Bridgeport Road
Portland, OR 97224

Project: TOSCO - Inman Oil Co.
Project Number: 4823-022-00
Project Manager: Bill Collins

Sampled: 6/26/98
Received: 6/29/98
Reported: 7/24/98 14:40

Notes and Definitions

#	Note
---	------

1 This sample was extracted outside the recommended holding time.

2 RPD is not reported for sample concentrations less than 5 times the MRL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

Recov. Recovery

RPD Relative Percent Difference

North Creek Analytical, Inc.

Philip Nerenberg, Laboratory Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



CHAIN OF CUSTODY REPORT

Work Order # P806596

18939 120th Avenue N.E., Suite 101, Burien, WA 98148-9208 (509) 833-1994 FAX 833-1994
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9200
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2203

REPORT TO: <u>Gooding Bros</u>		INVOICE TO:	
ATTENTION: <u>Bill Collins</u>		ATTENTION:	
ADDRESS:		ADDRESS:	
PHONE: <u>509-833-022</u>		P.O. NUMBER:	
FAX: <u>509-833-022</u>		NCA QUOTE #:	
PROJECT NAME: <u>Tosco - Inman O.I.</u>		Analysis Request:	
PROJECT NUMBER: <u>4833-022-00</u>		NCA SAMPLE ID	
SAMPLED BY: <u>CRH</u>		SAMPLING DATE/TIME	
CLIENT SAMPLE IDENTIFICATION		NCA SAMPLE ID (Laboratory Use Only)	
1. GEL-1-6.0		6-26-12/145	
2. GEL-1-11.0		1452	
3. GEL-1-13.5		1456	
4. GEL-1-21.0		1402	
5. GEL-2-5.5		1345	
6. GEL-2-10.0		1380	
7. GEL-2-12.0		1355	
8. GEL-2-14.5		1402	
9. GEL-2-21.0		1406	
10. GEL-2-24.0		1415	
RELINQUISHED BY (signature): <u>[Signature]</u>		DATE: <u>6/21/14</u>	
PRINT NAME: <u>[Signature]</u>		FIRM: <u>SEY</u>	
DATE: <u>6/21/14</u>		TIME: <u>1406</u>	
RECEIVED BY (signature): <u>[Signature]</u>		DATE: <u>6/21/14</u>	
PRINT NAME: <u>Sara McClung</u>		FIRM: <u>NCA</u>	
DATE: <u>6/21/14</u>		TIME: <u>1406</u>	
RECEIVED BY (signature): <u>[Signature]</u>		DATE: <u>6/21/14</u>	
PRINT NAME: <u>[Signature]</u>		FIRM: <u>NCA</u>	
DATE: <u>6/21/14</u>		TIME: <u>1406</u>	
ADDITIONAL REMARKS:		FIRM: <u>NCA</u>	
DATE: <u>6/21/14</u>		TIME: <u>1406</u>	
PAGE 57		OF 7	

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses	7	5	4	3	2	1	Same Day
Fuels & Hydrocarbon Analyses	7	5	4	3	2	1	Same Day

OTHER Specify: _____

* Turnaround Requests less than standard may incur Rush Charge

MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
S	1	Hold

