



*Geotechnical, Environmental,
Construction Materials, & Roofing Engineers*

ENGINEERING CONSULTANTS, INC.

P.O. Box 18846 • Zip 27419-8846 • 313 Gallimore Dairy Rd. Greensboro, N.C. 27409 • (919) 668-0093

August 6, 1990

RECEIVED
N.C. Dept. NRCD

OCT 26 1990

Winston-Salem
Regional Office

Myrick Construction Company
Post Office Box 728
Biscoe, North Carolina 27209

Attention: Mr. David Menius

Reference: Underground Storage Tank Soil Sampling and
Laboratory Analysis
Glenola, North Carolina
Trigon Job No. 015-90-065

Dear Mr. Menius:

Trigon Engineering Consultants, Inc. is pleased to provide this summary report for the underground storage tank (UST) soil sampling for the above referenced property. This letter documents our work at the site and laboratory analysis.

On July 12, 1990, a representative of Trigon Engineering Consultants, Inc. observed the removal of four USTs (1 - 15,000 and 3 - 10,000 gallon) fuel tanks at the above referenced site. Soil samples were retrieved one to 2 feet beneath USTs 2, 3 and 4. Also, soil samples were retrieved on the sides of the concrete pad beneath tank #1. Composite soil samples were retrieved from UST backfill material at each tank location. The tanks were visually examined for evidence of perforations and other exit points for the petroleum product to enter the soil media surrounding the tank. There were no visual evidence of holes in the USTs. See Figures 1 and 2 for the location of the USTs.

The soil samples were screened in the field with an organic vapor analyzer (OVA) for volatile organic compounds (Table 1). After the soil samples were screened with the OVA they were placed in laboratory prepared containers for shipment to Industrial and Environmental Analysts, Inc. for laboratory analysis of total petroleum hydrocarbons by Method 5030 and 3550 (see attached Chain of Custody Form).

The laboratory analysis as reported by IEA revealed less than 2 milligrams per kilogram (mg/kg) of petroleum hydrocarbons in the soil samples (see attached Laboratory Results).

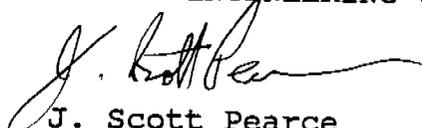
Mr. David Menius
August 6, 1990
Page Two

Trigon recommends no additional work be done at the site in regard to the USTs which were removed on July 12, 1990.

Trigon Engineering Consultants, Inc. appreciates this opportunity to assist Myrick Construction with the UST closure. Should you have any questions about this report, please feel free to contact us at your convenience.

Very truly yours,

TRIGON ENGINEERING CONSULTANTS, INC.



J. Scott Pearce
Staff Geologist



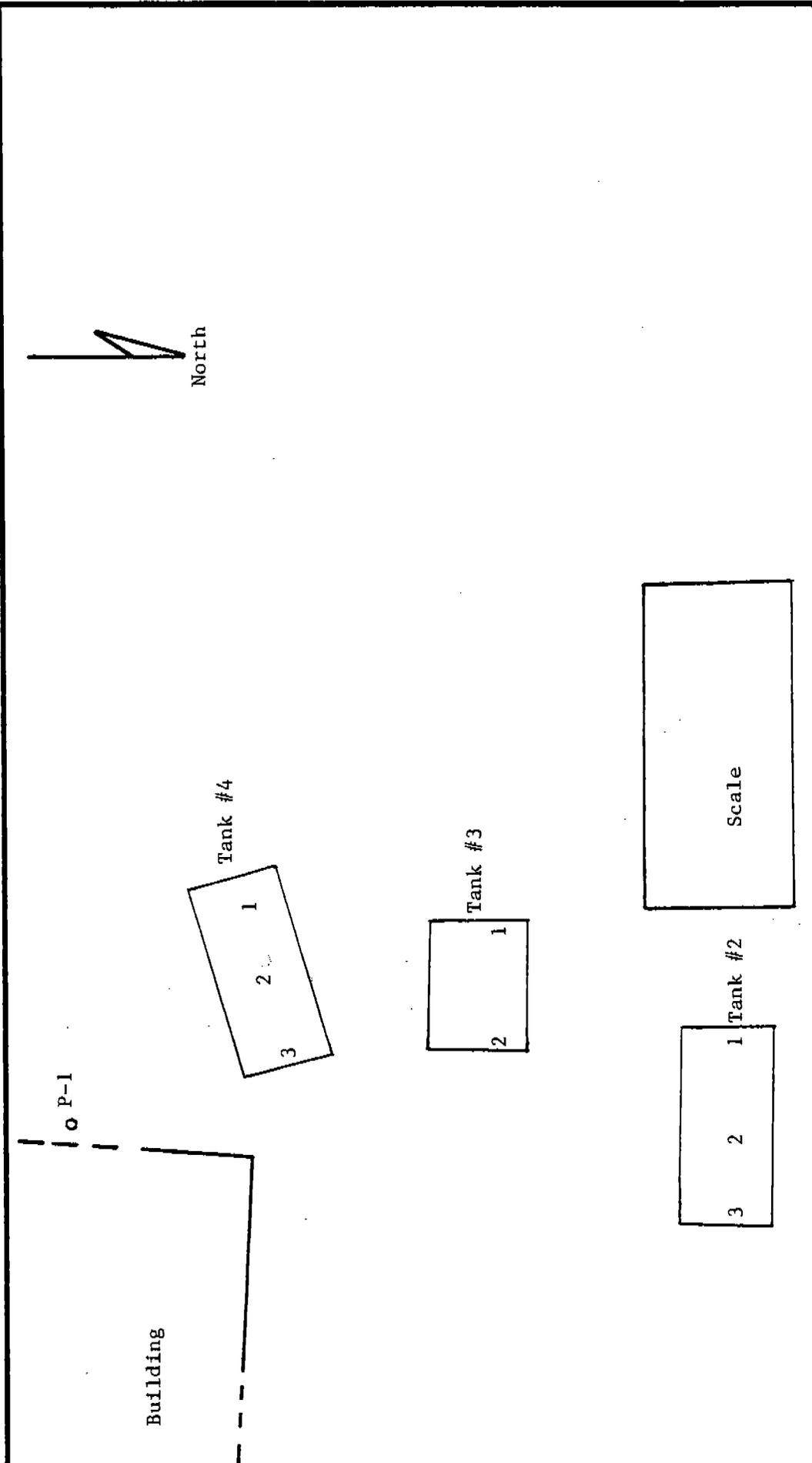
Kirk L. Rife
Director, Environmental Affairs

JSP:KLR/mb

Enclosures

R5006501





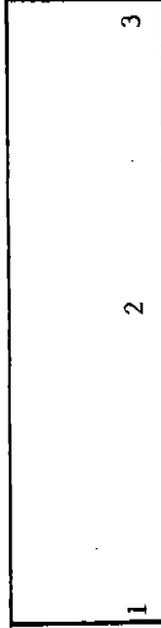
TRIGON ENGINEERING CONSULTANTS, INC. Greensboro, North Carolina	
SCALE: None	DRAWN BY JSP
DATE: 8/6/90	APPROVED BY
Underground Storage Tank Closure Glenola, North Carolina	
Soil Sample Locations and Underground Storage Tank Locations	DRAWING NUMBER 1



North

Loading Dock

Boiler Room



Tank #1

TRIGON ENGINEERING CONSULTANTS, INC.
Greensboro, North Carolina

SCALE: None

DATE: 8/6/90

APPROVED BY

Underground Storage Tank Closure
Glenola, North Carolina

DRAWN BY JSP

Soil Sample Locations and Underground
Storage Tank Locations

DRAWING NUMBER
2

TRIGON ENGINEERING CONSULTANTS, INC.
SUMMARY OF OVA MONITORING
Table 1

Job Name: UST Closure
Job Location: Glenola, North Carolina
Job No: 015-90-065
Date: July 12, 1990

Boring	Sample No.	Depth	OVA ¹ (Field) (ppm) ²	Comments
T-4	T4-1	14'	1.50	S.T. 9:53 AM
	T4-2	14'	.75	S.T. 9:42 AM
	T4-3	14'	.50	S.T. 9:35 AM
	T4-C	Composite	0	S.T. 10:10 AM
T-3	T3-1	15'	0	S.T. 10:43 AM
	T3-2	15'	.50	S.T. 10:27 AM
	T3-C	Composite	3.00	S.T. 10:50 AM
T-2	T2-1	14'	2.00	S.T. 11:11 AM
	T2-2	14'	2.00	S.T. 11:19 AM
	T2-3	14'	0	S.T. 11:26 AM
	T2-C	Composite	1.00	S.T. 11:35 AM
T-1	T1-1	15'	0	S.T. 5:16 PM
	T1-2	15'	0	S.T. 5:08 PM
	T1-3	15'	.50	S.T. 5:00 PM
	T1-C	Composite	0	S.T. 3:50 PM
P-1	P-1	4'	0	S.T. 12:20 PM

Notes: ¹ Organic Vapor Analyzer (OVA) measures the concentration of organic vapors in the air.
² ppm = parts per million
S.T. = sample time



INDUSTRIAL & ENVIRONMENTAL
ANALYSTS, INC.
1901 NORTH HARRISON AVE.
CARY, N.C. 27513

CHAIN OF CUSTODY RECORD

NO: 1541

PROJECT #		PROJECT NAME		CONTAINERS		MATRIX		REQUESTED PARAMETERS	
215-10-005				#	OF	SOIL	WATER		
SAMPLERS: (SIGNATURE)	DATE	TIME	COMP	GRAB	STATION LOCATION				
<i>J. Scott Pearce</i>	7-12	9:35		X	T4-1	3	X		
	7-12	9:42		X	T4-2	3	X		
	7-12	9:35		X	T4-3	3	X		
	7-12	10:10		X	T4-C	3	X		
	7-12	10:48		X	T3-1	3	X		
	7-12	10:27		X	T3-2	3	X		
	7-12	10:50		X	T3-C	3	X		
	7-12	11:11		X	T2-1	3	X		
	7-12	11:19		X	T2-2	3	X		
	7-12	11:26		X	T2-3	3	X		
	7-12	11:35		X	T2-C	3	X		
	7-12	11:20		X	P-1	3	X		
RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY	DATE	TIME	IEA QUOTE NO.	IEA RUSH NO.	
<i>J. Scott Pearce</i>		7-13-11	1:55	<i>[Signature]</i>	7-13	8:26			
RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED FOR LAB BY	DATE	TIME	PROJECT MANAGER (PLEASE PRINT)	P.O. NO.	
<i>J. Scott Pearce</i>				<i>Janna Ward</i>	7/13/11	12:00	<i>J. Scott Pearce</i>		
IEA REMARKS		FIELD REMARKS							
IEA #471-93		<p>1. Correct</p> <p>2. No. 101.141.1 Total Amount</p>							



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-1 Date Received: 7-13-90
Client Sample No: T4-1 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====
Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-2 Date Received: 7-13-90
Client Sample No: T4-2 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====
Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-3 Date Received: 7-13-90
Client Sample No: T4-3 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====
Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-4 Date Received: 7-13-90
Client Sample No: T4-C Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====
Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-5 Date Received: 7-13-90
Client Sample No: T3-1 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====
Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-6 Date Received: 7-13-90
Client Sample No: T3-2 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====
Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-7 Date Received: 7-13-90
Client Sample No: T3-C Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====
Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-8 Date Received: 7-13-90
Client Sample No: T2-1 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====
Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-9 Date Received: 7-13-90
Client Sample No: T2-2 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====
Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-10 Date Received: 7-13-90
Client Sample No: T2-3 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====

Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-11 Date Received: 7-13-90
Client Sample No: T2-C Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-12 Date Received: 7-13-90
Client Sample No: T1-1 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

=====
Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-13 Date Received: 7-13-90
Client Sample No: T1-2 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-14 Date Received: 7-13-90
Client Sample No: T1-3 Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-17-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-15 Date Received: 7-13-90
Client Sample No: T1-C Date Extracted: 7-16-90
Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-18-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:



Total Petroleum Hydrocarbon Analysis

IEA Sample No: 471-093-16

Date Received: 7-13-90

Client Sample No: P-1

Date Extracted: 7-16-90

Client Project No: 015-90-065

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 7-18-90

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 7-20-90

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment: