

**UNDERGROUND STORAGE TANK CLOSURE
NATIONAL STEEL SERVICE CENTER
GREENSBORO, NORTH CAROLINA**

S&ME PROJECT NO. 1584-93-006

APPROVED FOR RELEASE
BY THE NATIONAL ARCHIVES
ON 08-17-2011



March 3, 1993

Bissell Corporation
4602 Dundas Drive
Greensboro, North Carolina 27407

Attention: Mr. Dan Pierce

Reference: Underground Storage Tank Closure
National Steel Service Center
National Service Road
Greensboro, North Carolina
S&ME Project No. 1584-93-006

Dear Mr. Pierce:

On February 17, 1993, S&ME, Inc. was present at the above referenced site (Figure 006-1) to obtain soil samples from the removal of one 10,000 gallon diesel fuel underground storage tank (UST). Evergreen Environmental Services performed the UST removal. This report contains documentation required by the North Carolina Department of Environment, Health and Natural Resources (DEHNR) for permanent closure of a UST site.

The inactive UST was located on the west side of the pump island adjacent to the circular driveway (Figure 006-2). The top of the UST was approximately 2 feet below the ground surface. Soil samples were collected for laboratory analysis by hand from an S&ME Environmental Engineer 2 feet below the bottom of each end of the UST and 15 feet below the ground surface. In addition, one sample was removed from 2 feet below the pump island for laboratory analysis. All soil samples were screened for organic vapors with an Organic Vapor Analyzer (OVA). No vapors were detected above background levels. Soil samples taken for laboratory analysis were placed in pre-cleaned jars, and transported in a chilled container to IEA Laboratory. They were analyzed for volatile and semi-volatile Total Petroleum Hydrocarbons (TPH) by method SW-846 5030

Bissell Corporation
March 3, 1993
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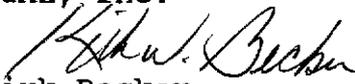
and SW 846 3550. Results of the laboratory analyses are summarized in Table I. The sample taken under the pump island indicates a contamination level of 780 ppm. A Site Sensitivity Evaluation (SSE) was performed with a total site characteristic score of 60 and a final cleanup level of 320 ppm.

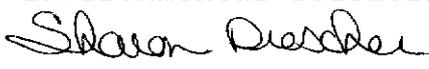
The soil excavated during sampling of the UST was used for backfilling along with an additional 60 yards of offsite borrow material. The tank was removed off-site to be disposed of by Safeway Company in Colfax.

Copies of a completed GW/UST-2, Site Sensitivity Evaluation (SSE), the laboratory test reports and the chain-of-custody are attached. If you have any questions or require additional information, please call.

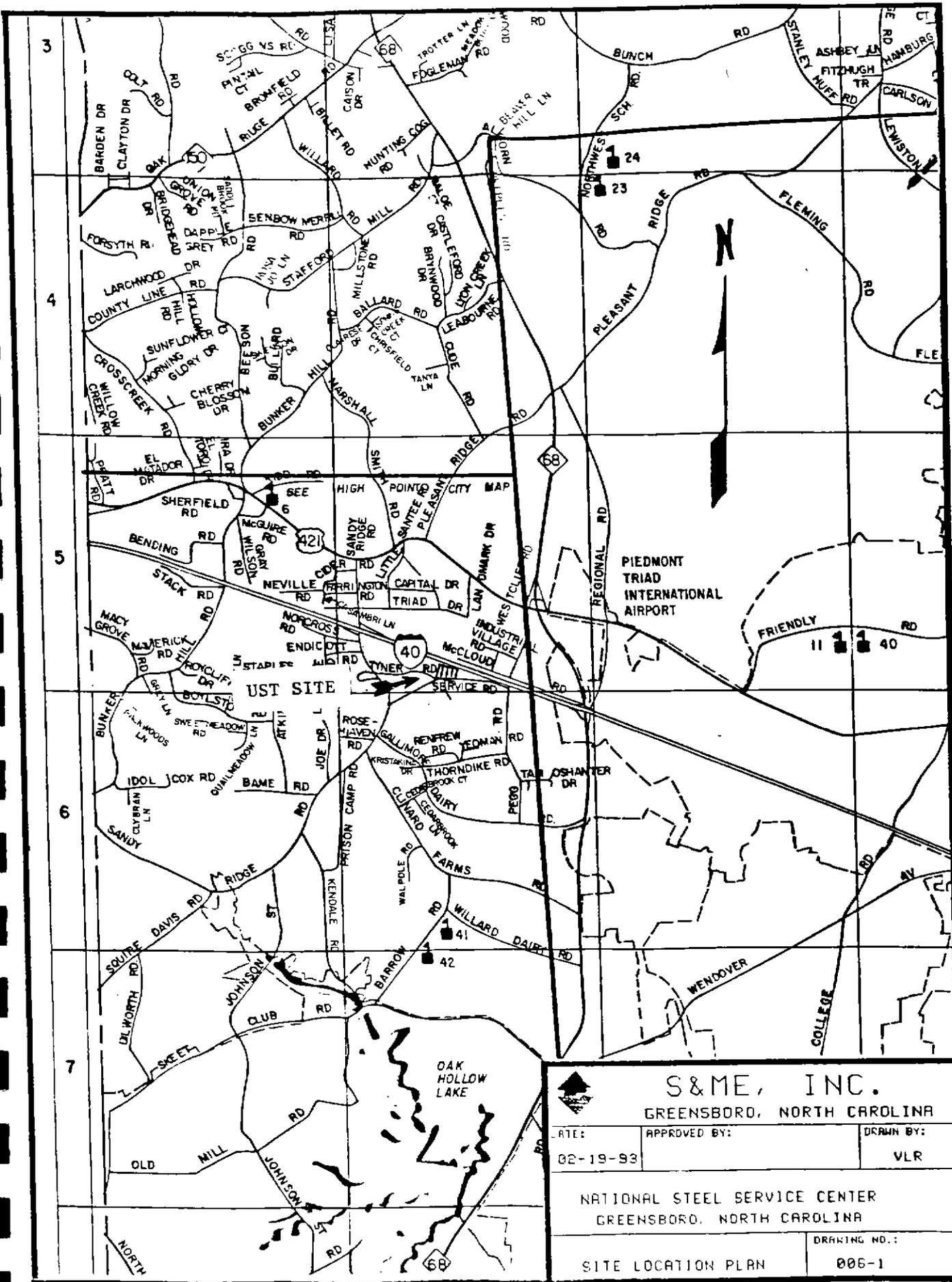
Sincerely,

S&ME, Inc.


Kirk Becker
Environmental Scientist


Sharon Drescher
Project Manager
Environmental Services

KB/SD/vr

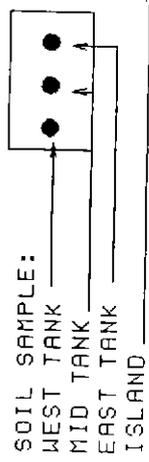
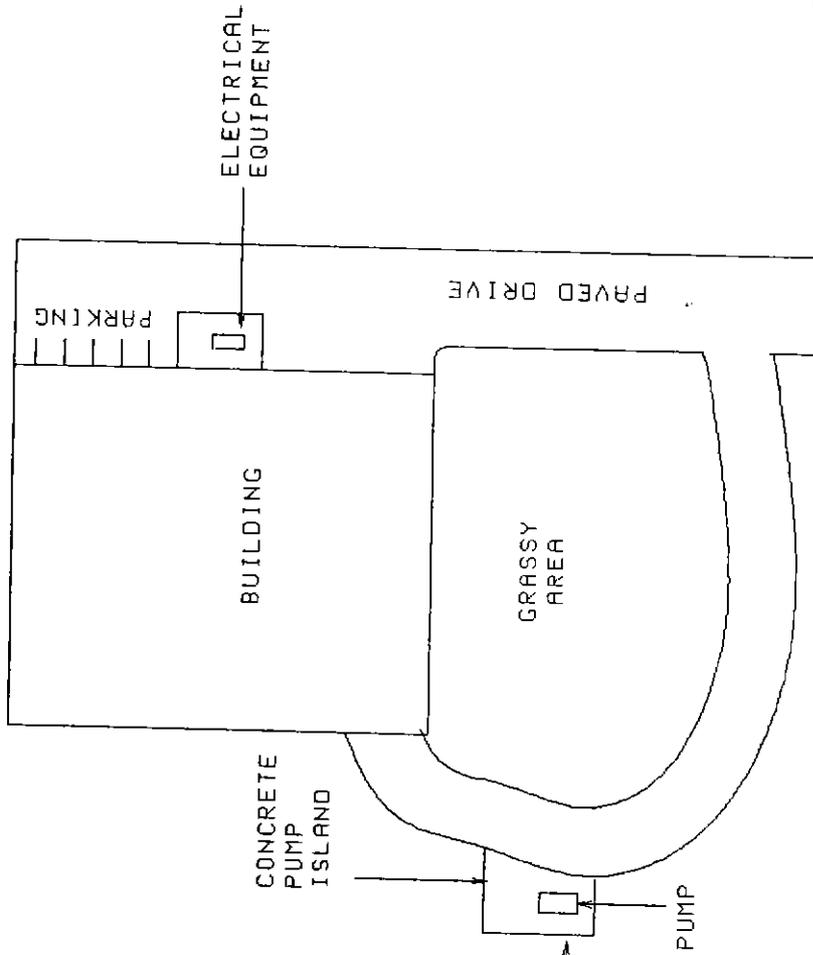
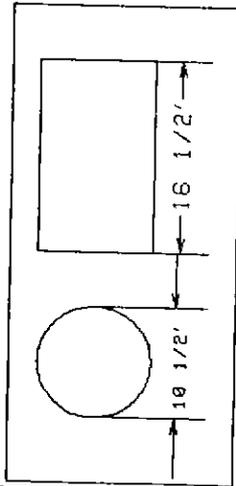


 S&ME, INC. GREENSBORO, NORTH CAROLINA		
DATE:	APPROVED BY:	DRAWN BY:
02-19-93		VLR
NATIONAL STEEL SERVICE CENTER GREENSBORO, NORTH CAROLINA		
SITE LOCATION PLAN		DRAWING NO.: 006-1



INTERSTATE 40

TANK DIMENSIONS



GRASSY AREA

NATIONAL SERVICE ROAD



S&ME, INC.

GREENSBORO, NORTH CAROLINA

DATE: 02-19-93

APPROVED BY: VLR

DRAWN BY: SD

NATIONAL STEEL SERVICE CENTER
GREENSBORO, NORTH CAROLINA

LOCATION PLAN

DRAWING NO. 006-2

GW/UST-2 Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T.

FOR
TANKS
IN
NC

Return Completed Form To:
The appropriate DEM Regional Office according to the county of the facility's location.
[SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only
I.D. Number _____
Date Received _____

INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)

A. Location of Tank(s)

National Steel Service, Inc.
Owner Name (Corporate, Individual, Public Agency, or Other Entity)
P.O. Box 6000
Street Address
County Norcross Georgia 30091
City State Zip Code
404 840-7350
Area Code Telephone Number

National Steel Service
Facility Name or Company
0-009601
Facility ID # (if available)
7966 National Service Road
Street Address or State Road
Guilford Greensboro 27419
County 919 City 668-2737 Zip Code
Area Code Telephone Number

II. Contact Person

Mr. Dennis O'Neal Chief Financial Officer 404-840-7350
Name Job Title Telephone No. (Area Code)
Closure Contractor **Evergreen Environmental, Inc. Kernersville, N.C.** 919-996-0181
(Name) (Address) Telephone No. (Area Code)
IEA 3000 Weston Parkway, Cary, N.C. 27513 919-677-0090
(Name) (Address) Telephone No. (Area Code)

III. U.S.T. Information

IV. Excavation Condition

V. Additional Information Required

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation		Free Product		Notice Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
1	10,000	16'6"x10'6"	Diesel Fuel		X		X		X

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

VI. Check List

Check the activities completed.

- Contact local fire marshal
 - Notify DEM Regional Office before abandonment
 - Drain & flush piping into tank
 - Remove all product and residuals from tank
 - Excavate down to tank
 - Clean and inspect tank
 - Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures
 - Cap or plug all lines except the vent and fill lines.
 - Purge tank of all product & flammable vapors.
 - Cut one or more large holes in the tanks
 - Backfill the area
- Date Tank(s) Permanently closed: 3-17-93
Date of Change-in-Service: _____

- ABANDONMENT IN PLACE**
- Fill tank until material overflows tank opening.
 - Plug or cap all openings.
 - Disconnect and cap or remove vent line
 - Solid inert material used - specify: _____

- REMOVAL**
- Create vent hole
 - Label tank
 - Dispose of tank in approved manner
- Final tank destination: Safeway
Company, Kernersville, N.C.

VII. Certification (Read and Sign)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Print name and official title of owner or owner's authorized representative: Kirk Wayne Becker - Soil Scientist / Environ. Scientist Signature: Kirk W. Becker Date Signed: 3-2-93

TABLE 1

RESULTS OF LABORATORY ANALYSES
NATIONAL STEEL SERVICE CENTER
GREENSBORO, NORTH CAROLINA
S&ME JOB NO. 1584-93-006

<u>Sample Location</u>	<u>Volatile TPH (ppm)</u>	<u>Semi-Volatile TPH (ppm)</u>
Tank #1 - 10,000 gallon/ diesel fuel (west side)	<10	<10
Tank #1 - 10,000 gallon/ diesel fuel (east side)	<10	<10
Pump Island	<10	780

ppm - parts per million

Table 1
Site Sensitivity Evaluation (SSE)
 Site Characteristics Evaluation (Step 1)

Characteristic	Condition	Rating	
Grain Size*	Gravel	150	50
	Sand	100	
	Silt	50	
	Clay	0	
Are relict structures, sedimentary structures, and/or textures present in the zone of contamination and underlying "soils".	Present and intersecting the water table.	10	0
	Present but <u>not</u> intersecting the water table.	5	
	None present.	0	
Distance from location of deepest contaminated soil** to water table.	5 - 10 feet	20	10
	>10 - 40 feet	10	
	>40 feet	0	
Is the top of bedrock or transmissive indurated sediments located above the water table?	Yes	20	0
	No	0	
Artificial conduits present within the zone of contamination.	Present and intersecting the water table.	10	0
	Present but <u>not</u> intersecting the water table.	5	
	Not present.	0	
Total Site Characteristics Score:			60

* Predominant grain size based on Unified Soil Classification System or U.S. Dept. of Agriculture's Soil Classification Method.
 ** (>10 ppm TPH by Method 5030; >40 ppm TPH by Method 3550; >250 ppm O&G by Method 9071)

Table 2
Site Sensitivity Evaluation (SSE)
 Initial Cleanup Level (Step 2) Final Cleanup Level (Step 3)

Low Boiling Point Hydrocarbons			
Total Site Characteristics Score	Initial Cleanup Level TPFH (ppm) EPA Method 5030	Select Site Category*	Final Cleanup Level
>150	≤10	↓ Select Site Category* →	Category A & B (Multiply initial cleanup level by 1) 1 x _____ = _____ ppm
121-150	20		Category C & D (Multiply initial cleanup level by 2) 2 x _____ = _____ ppm
91-120	40		Category E (Multiply initial cleanup level by 3) 3 x _____ = _____ ppm
61-90	60		—
31-60	80		—
0-30	100		—

Medium Boiling Point Hydrocarbons			
Total Site Characteristics Score	Initial Cleanup Level TPFH (ppm) EPA Method 3550	Select Site Category*	Final Cleanup Level
>150	≤40	↓ Select Site Category* →	Category A & B (Multiply initial cleanup level by 1) 1 x 320 = 320 ppm
121-150	80		Category C & D (Multiply initial cleanup level by 2) 2 x _____ = _____ ppm
91-120	160		Category E (Multiply initial cleanup level by 3) 3 x _____ = _____ ppm
61-90	240		—
31-60	320		—
0-30	400		—

Oil & Grease (O&G)			
Total Site Characteristics Score	Initial Cleanup Level O&G (ppm) EPA Method 9071	Select Site Category*	Final Cleanup Level
>150	≤250	↓ Select Site Category* →	Category A & B (Multiply initial cleanup level by 1) 1 x _____ = _____ ppm
121-150	400		Category C & D (Multiply initial cleanup level by 2) 2 x _____ = _____ ppm
91-120	550		Category E (Multiply initial cleanup level by 3) 3 x _____ = _____ ppm
61-90	700		—
31-60	850		—
0-30	1000		—

* See Site Category Descriptions



IEA

An Aquarion Company

Total Petroleum Hydrocarbon Analysis

IEA Sample No:	9302356-01	Date Sampled:	02-17-93
Client Sample No:	WEST TANK	Date Received:	02-18-93
Client Project No:	1584-93-006	Date Extracted:	02-19-93

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 02-21-93 Analyzed by: Joaquin
Time Analyzed: 0016

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

Comment:

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Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 02-20-93 Analyzed by: Joaquin
Time Analyzed: 1838

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:

FAX



IEA

An Aquarion Company

Total Petroleum Hydrocarbon Analysis

IEA Sample No:	9302356-02	Date Sampled:	02-17-93
Client Sample No:	EAST TANK	Date Received:	02-18-93
Client Project No:	1584-93-006	Date Extracted:	02-19-93

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
Date Analyzed: 02-21-93 Analyzed by: Joaquin
Time Analyzed: 0103

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

Comment:

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Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 02-20-93 Analyzed by: Joaquin
Time Analyzed: 1912

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:

FAX



Total Petroleum Hydrocarbon Analysis

IEA Sample No:	9302356-03	Date Sampled:	02-17-93
Client Sample No:	ISLAND	Date Received:	02-18-93
Client Project No:	1584-93-006	Date Extracted:	02-19-93

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol)
 Date Analyzed: 02-21-93 Analyzed by: Joaquin
 Time Analyzed: 2250

The sample contains a petroleum hydrocarbon blend with a distillation range similar to #2 fuel oil. The concentration is 780 mg/kg. The quantitation limit is 200 mg/kg.

Comment:

Quantitation limit elevated due to extract dilution prior to analysis. Extract diluted due to the presence of target compounds.

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Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
 Date Analyzed: 02-20-93 Analyzed by: Joaquin
 Time Analyzed: 1947

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:

FAX

