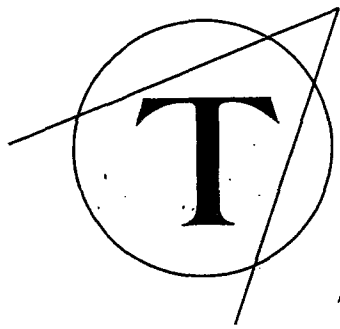




Tyree Environmental Technologies

- Analysis
- Construction
- Remediation

SUBSURFACE INVESTIGATION
OF

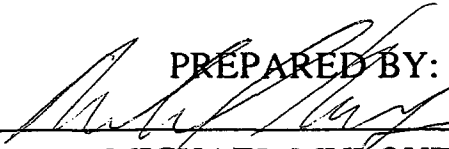
UNIFORMS FOR INDUSTRY
129-01 JAMAICA AVENUE
RICHMOND HILL, NEW YORK

MAY 1993

PREPARED FOR:

U.F.I.
129-01 JAMAICA AVENUE
RICHMOND HILL, NEW YORK
ATTN: DERRICK MILLER

PREPARED BY:


MICHAEL MULQUEEN

REVIEWED BY:


RICHARD M. CAPUTO

TYREE BROTHERS ENVIRONMENTAL SERVICES, INC.
208 ROUTE 109
FARMINGDALE, NEW YORK 11735
(516) 249-3150

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PURPOSE AND SCOPE

As per the request of Mr. Derrick Miller of U.F.I. Inc., Tyree Brothers Environmental Services, Inc. (TBES) performed a baseline environmental site assessment on the east side of the UFI property at 129-01 Jamaica Avenue.

The investigation was to determine if there had been any volatile organic aromatics released into the soils, and if groundwater was impacted. The investigation focused around four (4) underground storage tanks (UST) that were used to contain mop oil and solvents used in the cleaning process at UFI (Figure 1).

TBES drilled eight (8) soil borings on the north, south and east sides of the tank field as part of a baseline assessment prior to abandonment activities. Samples were obtained during drilling and analyzed for the presence of volatile organic compounds and total petroleum hydrocarbons (TPH).

**U.F.I.
BUILDING**

Vent Lines →

Reinforced
Concrete
Pad

B-1

B-2

UST

B-8

UST

UST

B-3

B-4

Concrete
Berm →

Above
Ground
tank →

Compressed
gas cylinders →

B-7

B-5

UST

B-6

Shed

N

Figure 1: Boring Locations

U.F.I.
129-09 Jamaica Avenue
Richmond Hill, New York

**Tyree Brothers
Environmental Services, Inc.**

208 Route 109
Farmingdale, New York 11735



Drawn By: M. Mulqueen
Date: 4- 29 - 93
Scale: 1" = 20' (Approximate)

⊕ Boring Location
UST - Underground Storage Tank

FIELD INVESTIGATION AND FINDINGS

On April 21, 1993, TBES drilled eight (8) soil borings at the subject site. Split spoon samples were collected at five (5) foot intervals. All samples were screened in the field using a Microtip Photoionization Detector (PID). This instrument measures the concentrations of organic vapors in air as they evolve from the soil samples. The numerical readouts are not exact determinations of true volatile content of the samples, but instead provide qualitative indications of the degree of volatile organic contamination. Five (5) samples exhibiting the highest PID readings, were submitted for laboratory analysis of volatile organic compounds via EPA method 8240 and total petroleum hydrocarbons (TPH) via EPA Method 418.1.

Soil conditions encountered during drilling included a layer of concrete that was underlain by a layer of sand and gravel or clay. The clay layer where present went through a coarsening downward sequence to a cobble and gravel bed with interstitial sands. This layer extended from approximately five (5) feet below grade until refusal (approximately eleven (11) feet). Split spoon sampling did not yield usable samples due to the gravel bed.

Field PID readings had the following ranges for each boring:

Boring #1	14.5 - 87.6 ppm
Boring #2	186 - 732 ppm
Boring #3	9.7 - 42.8 ppm
Boring #4	110 - 450 ppm
Boring #5	13.7 - 14.9 ppm
Boring #6	59.4 - 159 ppm
Boring #7	96.1 - 177 ppm
Boring #8	429 - 719 ppm

Please refer to the boring logs in the Appendix for additional information.

LABORATORY RESULTS

All of the samples submitted for laboratory analysis exhibited elevated levels of TPH. The sample collected from boring #8 had levels of Acetone, Ethylbenzene, and Xylenes that exceed the NYSDEC petroleum contaminated soil guidance policy.

The remaining contaminants that comprise most of the TPH values are most likely polynuclear aromatic hydrocarbons molecules, that may be associated with the mop oils or 624 solvent used at the facility. Complete laboratory results are included in the Appendix.

CONCLUSIONS

1. Eight (8) soil borings were installed on the north, south, east and west sides of four (4) underground storage tanks.
2. Five (5) borings had elevated PID readings and elevated TPH levels detected through laboratory analysis. No groundwater was encountered in any of the borings.
3. The soil conditions encountered were clays, gravels, and sands.

DISCLAIMER

This site assessment and report was prepared for the use of Mr. Derrick Miller of U.F.I. Reasonable due diligence was exercised by the staff of Tyree Brothers Environmental Services, Inc. (TBES). The conclusions provided by (TBES) in this assessment are based solely on the information reported in this document. Future investigative site information which was not available to TBES at the time of this assessment may result in a modification of the conclusions. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur. This report has been prepared in accordance with generally accepted practices. No other warranty, expressed or implied is made.

APPENDIX

TYREE BROTHERS
ENVIRONMENTAL SERVICES, INC.
 208 ROUTE 109 • FARMINGDALE • NEW YORK 11735

CLIENT:U.F.I LOCATION:	Drill Rig: CME - 75 Drill Method: Hollow Stem Auger Driller: Ken Watson Logged by: Mike Mulqueen Sample Type: Split Spoon Date: 4-21-93 Weather: cloudy 50's	BORE HOLE / WELL DATA Diam.(in.): 6" Screen Lgt.(ft.): NA Depth (ft.): 12' Screen Intvl.(ft.):NA Casing Diam.(in.):NA Screen Type: NA Casing Length(ft.):NA Screen Slot: NA BORE NO.:1 WELL NO.: DTW: NA
---	---	---

DEPTH BELOW (ft.) SURFACE:	PID RDGS.	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0	87.56		6" concrete	PVC pipe encounterd moved Boring over 18 inches.
			Dark brown sands & gravel	
			Light brown sand & gravel	
5	41.6		Light brown sandy clay with quartz and mica grains, becoming coarser with depth.	
10	14.5		Large cobbles and gravels, well rounded with interstitial sands. 75% gravels.	Slight MEK odor
			Refusal	
15				
20				
25				
30				
35				

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CLIENT: U.F.I. LOCATION: 129-09 Jamaica Avenue Richmond Hill, NY	Drill Rig: CME - 75 Drill Method: Hollow Stem Auger Driller: Ken Watson Logged by: Mike Mulqueen Sample Type: Split Spoon Date: 4-21-93 Weather: cloudy 50's	BORE HOLE / WELL DATA Diam.(in.): 6" Screen Lgt.(ft.): NA Depth (ft.): 11' Screen Intvl.(ft.): NA Casing Diam.(in.): NA Screen Type: NA Casing Length(ft.): NA Screen Slot: NA BORE NO.: 2 WELL NO.: DTW: NA	
---	--	---	--

DEPTH BELOW (ft.) SURFACE:	PID RDGS.	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0	732		6" concrete Dark brown to black sands & gravel.	
			Light brown sand & gravel.	
5	186		Light brown sandy clay with quartz and mica grains, becoming coarser with depth.	
				Moist with Petroleum odor
10	315		Large cobbles and gravels, well rounded with interstitial sands. 75% gravels.	
			Refusal	
				Broke two (2) teeth off on auger head.
15				
20				
25				
30				
35				

TYREE BROTHERS
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CLIENT: U.F.I. LOCATION: 129-09 Jamaica Avenue Richmond Hill, NY	Drill Rig: CME - 75	BORE HOLE / WELL DATA	
	Drill Method: Hollow Stem Auger Driller: Ken Watson Logged by: Mike Mulqueen Sample Type: Split Spoon Date: 4-21-93 Weather: cloudy 50's	Diam.(in.): 6" Depth (ft.): 9' Casing Diam.(in.): NA Casing Length(ft.):NA	Screen Lgt.(ft.): NA Screen Intvl.(ft.): NA Screen Type: NA Screen Slot: NA BORE NO.:3 WELL NO.: DTW: NA

DEPTH BELOW SURFACE:	PID RDGS.	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0			6" concrete with clay underneath.	
			Clay with some gravel and sands.	No Odor
5	9.7		Large cobbles and gravels, well rounded with interstitial sands. 75% gravels.	No Odor
	42.8			No Odor
			Refusal	
10				
15				
20				
25				
30				
35				

**TYREE BROTHERS
ENVIRONMENTAL SERVICES, INC.
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CLIENT: U.F.I.		Drill Rig: CME - 75	BORE HOLE / WELL DATA	
LOCATION:		Drill Method: Hollow Stem Auger	Diam.(in.): 6"	Screen Lgt.(ft.): NA
129-09 Jamaica Avenue		Driller: Ken Watson	Depth (ft.): 11'	Screen Intvl.(ft.): NA
Richmond Hill, NY		Logged by: Mike Mulqueen	Casing Diam.(in.): NA	Screen Type: NA
		Sample Type: Split Spoon	Casing Length(ft.):NA	Screen Slot: NA
		Date: 4-21-93 Weather: cloudy 50's	BORE NO.: 4	WELL NO.: DTW: NA

DEPTH BELOW SURFACE: (ft.)	PID RDGS.	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0	450		6" concrete with black sand & clay underneath.	Petroleum Odor
5	110		Clay with some gravel and sands.	Petroleum Odor
10	250		Large cobbles and gravels, well rounded with interstitial sands. 75% gravels.	Petroleum Odor
	315		Refusal	
15				
20				
25				
30				
35				

TYREE BROTHERS
ENVIRONMENTAL SERVICES, INC.
 208 ROUTE 109 • FARMINGDALE • NEW YORK 11735

CLIENT: U.F.I. LOCATION: 129-09 Jamaica Avenue Richmond Hill, NY	Drill Rig: CME - 75 Drill Method: Hollow Stem Auger Driller: Ken Watson Logged by: Mike Mulqueen Sample Type: Split Spoon Date: 4-21-93 Weather: cloudy 50's	BORE HOLE / WELL DATA	
		Diam.(in.): 6" Depth (ft.): 7' Casing Diam.(in.): NA Casing Length(ft.): NA	Screen Lgt.(ft.): NA Screen Intvl.(ft.): NA Screen Type: NA Screen Slot: NA BORE NO.: 5 WELL NO.: DTW: NA

DEPTH BELOW (ft.) SURFACE:	PID RDGS.	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0			6" concrete with brown sand & gravel underneath.	No odor
			Clean brown sand and gravel.	
5	13.7		Large cobbles and gravels, well rounded with interstitial sands. 75% gravels.	No odor
	14.9			
			Refusal	
10				
15				
20				
25				
30				
35				

TYREE BROTHERS
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CLIENT: U.F.I. LOCATION: 129-09 Jamaica Avenue Richmond Hill, NY	Drill Rig: CME - 75	BORE HOLE / WELL DATA	
	Drill Method: Hollow Stem Auger Driller: Ken Watson Logged by: Mike Mulqueen Sample Type: Split Spoon Date: 4-21-93 Weather: cloudy 50's	Diam.(in.): 6" Depth (ft.): 8' Casing Diam.(in.): NA Casing Length(ft.): NA BORE NO.: 6	Screen Lgt.(ft.): NA Screen Intvl.(ft.): NA Screen Type: NA Screen Slot: NA WELL NO.: DTW: NA

DEPTH BELOW (ft.) SURFACE:	PID RDGS.	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0	59.4		6" concrete with dark brown sand underneath.	Slight Petroleum Odor
			Concrete	
5	159		Clay with some gravel and sands.	
			Large cobbles and gravels, well rounded with interstitial sands. 75% gravels.	
	61.3		Refusal	
10				
15				
20				
25				
30				
35				

TYREE BROTHERS
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CLIENT: U.F.I. LOCATION:	Drill Rig: CME - 75 Drill Method: Hollow Stem Auger Driller: Ken Watson Logged by: Mike Mulqueen Sample Type: Split Spoon Date: 4-21-93 Weather: cloudy 50's	BORE HOLE / WELL DATA Diam.(in.): 6" Screen Lgt.(ft.): NA Depth (ft.): 8' Screen Intvl.(ft.): NA Casing Diam.(in.): NA Screen Type: NA Casing Length(ft.): NA Screen Slot: NA BORE NO.: 7 WELL NO.: DTW: NA
---	--	--

DEPTH BELOW (ft.) SURFACE:	PID RDGS.	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0	177		6" concrete with dark brown sand & gravel underneath.	Petroleum odor
5	96.1		Clay with petroleum staining.	Petroleum odor
	108		Large cobbles and gravels, well rounded with interstitial sands. 75% gravels.	Petroleum odor
			Refusal	
10				
15				
35				

TYREE BROTHERS
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CLIENT: U.F.I. LOCATION: 129-09 Jamaica Avenue Richmond Hill, NY	Drill Rig: CME - 75	BORE HOLE / WELL DATA	
	Drill Method: Hollow Stem Auger Driller: Ken Watson Logged by: Mike Mulqueen Sample Type: Split Spoon Date: 4-21-93 Weather: cloudy 50's	Diam.(in.): 6" Depth (ft.): 7' Casing Diam.(in.): NA Casing Length(ft.):NA	Screen Lgt.(ft.): NA Screen Intvl.(ft.): NA Screen Type: NA Screen Slot: NA BORE NO.:8 WELL NO.: DTW: NA

DEPTH BELOW (ft.) SURFACE:	PID RDGS.	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0	448		6" concrete with dark brown sand & gravel underneath.	Petroleum odor
5	429		Clay with petroleum staining.	Petroleum odor
	719		Large cobbles and gravels, well rounded with interstitial sands. 75% gravels.	Petroleum odor
			Refusal	
10				
15				
20				
25				
30				
35				

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - Total Pet. Hydrocarbons

Reviewed by: KRR

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 1

Custody: C1351 Phase: Grab

Collected: 04/21/93 9:34 AM

Location: Boring 2 at 10'

Remarks:

Analysis Information

Analyzed: 04/26/93

Dilution: 1

Remarks:

Analyte

Concentration

Units

MDL

Units

Total Recoverable

419

ppm

1

ppm

Petroleum Hydrocarbon

Sample 2

Custody: C1351 Phase: Grab

Collected: 04/21/93 9:34 AM

Location: Boring 4 at 11'

Remarks:

Analysis Information

Analyzed: 04/26/93

Dilution: 1

Remarks:

Analyte

Concentration

Units

MDL

Units

Total Recoverable

12500

ppm

1

ppm

Petroleum Hydrocarbon

Sample 3

Custody: C1351 Phase: Grab

Collected: 04/21/93 11:15 AM

Location: Boring 6 at 5'

Remarks:

Analysis Information

Analyzed: 04/26/93

Dilution: 1

Remarks:

Analyte

Concentration

Units

MDL

Units

Total Recoverable

374

ppm

1

ppm

Petroleum Hydrocarbon

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=In blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration



Tyree
Environmental
Technologies

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - Total Pet. Hydrocarbons

Reviewed by: _____

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 4

Custody: C1351 Phase: Grab

Collected: 04/21/93 12:40 PM

Location: Boring 7 at 7'

Remarks:

Analysis Information

Analyzed: 04/26/93

Dilution: 1

Remarks:

Analyte

Total Recoverable
Petroleum Hydrocarbon

Concentration
157

Units
ppm

MDL Units
1 ppm

Sample 5

Custody: C1351 Phase: Grab

Collected: 04/21/93 2:00 PM

Location: Boring 8 at 7'

Remarks:

Analysis Information

Analyzed: 04/26/93

Dilution: 1

Remarks:

Analyte

Total Recoverable
Petroleum Hydrocarbon

Concentration
3030

Units
ppm

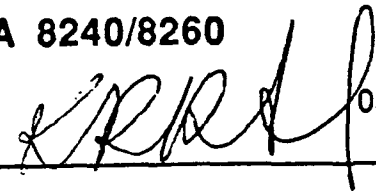
MDL Units
1 ppm

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=In blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - EPA 8240/8260

Reviewed by: 

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 1

Custody: C1351 Phase: Grab

Collected: 04/21/93 9:34 AM

Location: Boring 2 at 10'

Remarks:

Analysis Information

Analyzed: 04/28/93

Dilution: 133

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Dichlorodifluoromethane	ND	ppb	2660	ppb
Chloromethane	ND	ppb	2660	ppb
Vinylchloride	ND	ppb	2660	ppb
Bromomethane	ND	ppb	2660	ppb
Chloroethane	ND	ppb	2660	ppb
Trichlorofluoromethane	ND	ppb	2660	ppb
Diethylether	ND	ppb	2660	ppb
Acetone(2-Propanone)	ND	ppb	2660	ppb
1,1-Dichloroethene	ND	ppb	2660	ppb
Methylene Chloride	ND	ppb	2660	ppb
Carbondisulfide	ND	ppb	2660	ppb
1,2-Dichloroethene	ND	ppb	2660	ppb
1,1-Dichloroethane	ND	ppb	2660	ppb
2-Butanone (MEK)	ND	ppb	2660	ppb
Methacrylonitrile	ND	ppb	2660	ppb
Chloroform	ND	ppb	2660	ppb
1,1,1-Trichloroethane	ND	ppb	2660	ppb
Carbon Tetrachloride	ND	ppb	2660	ppb
1,2-Dichloroethane	ND	ppb	2660	ppb
Benzene	ND	ppb	2660	ppb
Trichloroethene	ND	ppb	2660	ppb
1,2-Dichloropropane	ND	ppb	2660	ppb
Methylmethacrylate	ND	ppb	2660	ppb
Bromodichloromethane	ND	ppb	2660	ppb
Dibromomethane	ND	ppb	2660	ppb
2-Methyl 2-Pentanone	ND	ppb	2660	ppb
2-Hexanone	ND	ppb	2660	ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - EPA 8240/8260

Reviewed by: KRP

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 1 (continued)

Custody: C1351 Phase: Grab

Collected: 04/21/93 9:34 AM

Location: Boring 2 at 10'

Remarks:

Analysis Information

Analyzed: 04/28/93

Dilution: 133

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
c 1,3-Dichloro 1-Propene	ND	ppb	2660	ppb
Toluene	ND	ppb	2660	ppb
1,3-Dichloro 1-Propene	ND	ppb	2660	ppb
1,1,2-Trichloroethane	ND	ppb	2660	ppb
Tetrachloroethene	ND	ppb	2660	ppb
Dibromochloromethane	ND	ppb	2660	ppb
1,2-Dibromoethane (EDB)	ND	ppb	2660	ppb
Chlorobenzene	ND	ppb	2660	ppb
Ethylbenzene	ND	ppb	2660	ppb
m&p-Xylene	ND	ppb	2660	ppb
o-Xylene	ND	ppb	2660	ppb
Styrene	ND	ppb	2660	ppb
Bromoform	ND	ppb	2660	ppb
1,1,2,2-Tetrachloroethane	ND	ppb	2660	ppb
1,2,3-Trichloropropane	ND	ppb	2660	ppb
1,4-Dichloro-2-Butene	ND	ppb	2660	ppb
1,3-Dichlorobenzene	ND	ppb	2660	ppb
1,4-Dichlorobenzene	ND	ppb	2660	ppb
1,2-Dichlorobenzene	ND	ppb	2660	ppb
1,2-Dibromo3chloropropane	ND	ppb	2660	ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration



Tyree
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Technologies

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ANALYSIS REPORT - EPA 8240/8260

Reviewed by: KRaff

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 2

Custody: C1351 Phase: Grab

Collected: 04/21/93 9:34 AM

Location: Boring 4 at 11'

Remarks:

Analysis Information

Analyzed: 04/28/93

Dilution: 140

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Dichlorodifluoromethane	ND	ppb	2800	ppb
Chloromethane	ND	ppb	2800	ppb
Vinylchloride	ND	ppb	2800	ppb
Bromomethane	ND	ppb	2800	ppb
Chloroethane	ND	ppb	2800	ppb
Trichlorofluoromethane	ND	ppb	2800	ppb
Diethylether	ND	ppb	2800	ppb
Acetone(2-Propanone)	ND	ppb	2800	ppb
1,1-Dichloroethene	ND	ppb	2800	ppb
Methylene Chloride	ND	ppb	2800	ppb
Carbondisulfide	ND	ppb	2800	ppb
1,1,2-Dichloroethene	ND	ppb	2800	ppb
1,1-Dichloroethane	ND	ppb	2800	ppb
2-Butanone (MEK)	ND	ppb	2800	ppb
Methacrylonitrile	ND	ppb	2800	ppb
Chloroform	ND	ppb	2800	ppb
1,1,1-Trichloroethane	ND	ppb	2800	ppb
Carbon Tetrachloride	ND	ppb	2800	ppb
1,2-Dichloroethane	ND	ppb	2800	ppb
Benzene	ND	ppb	2800	ppb
Trichloroethene	ND	ppb	2800	ppb
1,2-Dichloropropane	ND	ppb	2800	ppb
Methylmethacrylate	ND	ppb	2800	ppb
Bromodichloromethane	ND	ppb	2800	ppb
Dibromomethane	ND	ppb	2800	ppb
2-Methyl 2-Pentanone	ND	ppb	2800	ppb
2-Hexanone	ND	ppb	2800	ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - EPA 8240/8260

Reviewed by: _____

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 2 (continued)

Custody: C1351 Phase: Grab

Collected: 04/21/93 9:34 AM

Location: Boring 4 at 11'

Remarks:

Analysis Information

Analyzed: 04/28/93

Dilution: 140

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
c 1,3-Dichloro 1-Propene	ND	ppb	2800	ppb
Toluene	ND	ppb	2800	ppb
1,3-Dichloro 1-Propene	ND	ppb	2800	ppb
1,1,2-Trichloroethane	ND	ppb	2800	ppb
Tetrachloroethene	ND	ppb	2800	ppb
Dibromochloromethane	ND	ppb	2800	ppb
1,2-Dibromoethane (EDB)	ND	ppb	2800	ppb
Chlorobenzene	ND	ppb	2800	ppb
Ethylbenzene	ND	ppb	2800	ppb
m&p-Xylene	ND	ppb	2800	ppb
o-Xylene	ND	ppb	2800	ppb
Styrene	ND	ppb	2800	ppb
Bromoform	ND	ppb	2800	ppb
1,1,2,2-Tetrachloroethane	ND	ppb	2800	ppb
1,2,3-Trichloropropane	ND	ppb	2800	ppb
1,4-Dichloro-2-Butene	ND	ppb	2800	ppb
1,3-Dichlorobenzene	ND	ppb	2800	ppb
1,4-Dichlorobenzene	ND	ppb	2800	ppb
1,2-Dichlorobenzene	ND	ppb	2800	ppb
1,2-Dibromo3chloropropane	ND	ppb	2800	ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=In blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration



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ANALYSIS REPORT - EPA 8240/8260

Reviewed by: _____

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 3

Custody: C1351 Phase: Grab

Collected: 04/21/93 11:15 AM

Location: Boring 6 at 5'

Remarks:

Analysis Information

Analyzed: 04/28/93

Dilution: 6

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Dichlorodifluoromethane	ND	ppb	120	ppb
Chloromethane	ND	ppb	120	ppb
Vinylchloride	ND	ppb	120	ppb
Bromomethane	ND	ppb	120	ppb
Chloroethane	ND	ppb	120	ppb
Trichlorofluoromethane	ND	ppb	120	ppb
Diethylether	ND	ppb	120	ppb
Acetone(2-Propanone)	ND	ppb	120	ppb
1,1-Dichloroethene	ND	ppb	120	ppb
Methylene Chloride	ND	ppb	120	ppb
Carbondisulfide	ND	ppb	120	ppb
1,2-Dichloroethene	ND	ppb	120	ppb
1,1-Dichloroethane	ND	ppb	120	ppb
2-Butanone (MEK)	ND	ppb	120	ppb
Methacrylonitrile	ND	ppb	120	ppb
Chloroform	ND	ppb	120	ppb
1,1,1-Trichloroethane	ND	ppb	120	ppb
Carbon Tetrachloride	ND	ppb	120	ppb
1,2-Dichloroethane	ND	ppb	120	ppb
Benzene	ND	ppb	120	ppb
Trichloroethene	ND	ppb	120	ppb
1,2-Dichloropropane	ND	ppb	120	ppb
Methylmethacrylate	ND	ppb	120	ppb
Bromodichloromethane	ND	ppb	120	ppb
Dibromomethane	ND	ppb	120	ppb
2-Methyl 2-Pentanone	ND	ppb	120	ppb
2-Hexanone	ND	ppb	120	ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration

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ANALYSIS REPORT - EPA 8240/8260

Reviewed by: _____

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U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 3 (continued)

Custody: C1351 Phase: Grab

Collected: 04/21/93 11:15 AM

Location: Boring 6 at 5'

Remarks:

Analysis Information

Analyzed: 04/28/93

Dilution: 6

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
c 1,3-Dichloro 1-Propene	ND	ppb	120	ppb
Toluene	ND	ppb	120	ppb
1,3-Dichloro 1-Propene	ND	ppb	120	ppb
1,1,2-Trichloroethane	ND	ppb	120	ppb
Tetrachloroethene	ND	ppb	120	ppb
Dibromochloromethane	ND	ppb	120	ppb
1,2-Dibromoethane (EDB)	ND	ppb	120	ppb
Chlorobenzene	ND	ppb	120	ppb
Ethylbenzene	ND	ppb	120	ppb
m&p-Xylene	ND	ppb	120	ppb
o-Xylene	ND	ppb	120	ppb
Styrene	ND	ppb	120	ppb
Bromoform	ND	ppb	120	ppb
1,1,2,2-Tetrachloroethane	ND	ppb	120	ppb
1,2,3-Trichloropropane	ND	ppb	120	ppb
1,4-Dichloro-2-Butene	ND	ppb	120	ppb
1,3-Dichlorobenzene	ND	ppb	120	ppb
1,4-Dichlorobenzene	ND	ppb	120	ppb
1,2-Dichlorobenzene	ND	ppb	120	ppb
1,2-Dibromo3chloropropane	ND	ppb	120	ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration

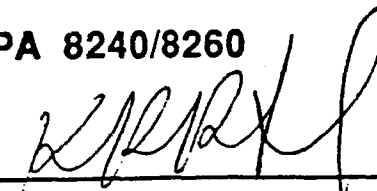


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ANALYSIS REPORT - EPA 8240/8260

Reviewed by: 

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 4

Custody: C1351 Phase: Grab

Collected: 04/21/93 12:40 PM

Location: Boring 7 at 7

Remarks:

Analysis Information

Analyzed: 04/28/93

Dilution: 1

Remarks:

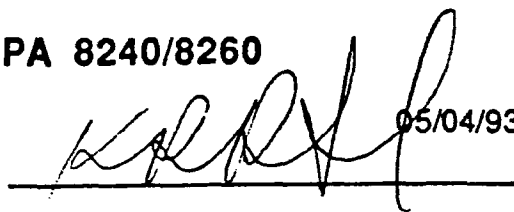
<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Dichlorodifluoromethane	ND	ppb	20	ppb
Chloromethane	ND	ppb	20	ppb
Vinylchloride	ND	ppb	20	ppb
Bromomethane	ND	ppb	20	ppb
Chloroethane	ND	ppb	20	ppb
Trichlorofluoromethane	ND	ppb	20	ppb
Diethylether	ND	ppb	20	ppb
Acetone(2-Propanone)	ND	ppb	20	ppb
1,1-Dichloroethene	ND	ppb	20	ppb
Methylene Chloride	ND	ppb	20	ppb
Carbondisulfide	ND	ppb	20	ppb
1,1,2-Dichloroethene	ND	ppb	20	ppb
1,1-Dichloroethane	ND	ppb	20	ppb
2-Butanone (MEK)	ND	ppb	20	ppb
Methacrylonitrile	ND	ppb	20	ppb
Chloroform	ND	ppb	20	ppb
1,1,1-Trichloroethane	ND	ppb	20	ppb
Carbon Tetrachloride	ND	ppb	20	ppb
1,2-Dichloroethane	ND	ppb	20	ppb
Benzene	ND	ppb	20	ppb
Trichloroethene	ND	ppb	20	ppb
1,2-Dichloropropane	ND	ppb	20	ppb
Methylmethacrylate	ND	ppb	20	ppb
Bromodichloromethane	ND	ppb	20	ppb
Dibromomethane	ND	ppb	20	ppb
2-Methyl 2-Pentanone	ND	ppb	20	ppb
2-Hexanone	ND	ppb	20	ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration

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ANALYSIS REPORT - EPA 8240/8260

Reviewed by: 

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 4 (continued)

Custody: C1351 Phase: Grab

Collected: 04/21/93 12:40 PM

Location: Boring 7 at 7'

Remarks:

Analysis Information

Analyzed: 04/28/93

Dilution: 1

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
c 1,3-Dichloro 1-Propene	ND	ppb	20	ppb
Toluene	ND	ppb	20	ppb
1,3-Dichloro 1-Propene	ND	ppb	20	ppb
1,1,2-Trichloroethane	ND	ppb	20	ppb
Tetrachloroethene	ND	ppb	20	ppb
Dibromochloromethane	ND	ppb	20	ppb
1,2-Dibromoethane (EDB)	ND	ppb	20	ppb
Chlorobenzene	ND	ppb	20	ppb
Ethylbenzene	ND	ppb	20	ppb
m&p-Xylene	ND	ppb	20	ppb
o-Xylene	ND	ppb	20	ppb
Styrene	ND	ppb	20	ppb
Bromoform	ND	ppb	20	ppb
1,1,2,2-Tetrachloroethane	ND	ppb	20	ppb
1,2,3-Trichloropropane	ND	ppb	20	ppb
1,4-Dichloro-2-Butene	ND	ppb	20	ppb
1,3-Dichlorobenzene	ND	ppb	20	ppb
1,4-Dichlorobenzene	ND	ppb	20	ppb
1,2-Dichlorobenzene	ND	ppb	20	ppb
1,2-Dibromo3chloropropane	ND	ppb	20	ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - EPA 8240/8260

Reviewed by: KRP

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 5

Custody: C1351 Phase: Grab

Collected: 04/21/93 2:00 PM

Location: Boring 8 at 7'

Remarks:

Analysis Information

Analyzed: 04/28/93

Dilution: 6

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Dichlorodifluoromethane	ND	ppb	120	ppb
Chloromethane	ND	ppb	120	ppb
Vinylchloride	ND	ppb	120	ppb
Bromomethane	ND	ppb	120	ppb
Chloroethane	ND	ppb	120	ppb
Trichlorofluoromethane	ND	ppb	120	ppb
Diethylether	ND	ppb	120	ppb
Acetone(2-Propanone)	635	ppb	120	ppb
1,1-Dichloroethene	ND	ppb	120	ppb
Methylene Chloride	ND	ppb	120	ppb
Carbondisulfide	ND	ppb	120	ppb
1,2-Dichloroethene	ND	ppb	120	ppb
1,1-Dichloroethane	ND	ppb	120	ppb
2-Butanone (MEK)	ND	ppb	120	ppb
Methacrylonitrile	ND	ppb	120	ppb
Chloroform	ND	ppb	120	ppb
1,1,1-Trichloroethane	ND	ppb	120	ppb
Carbon Tetrachloride	ND	ppb	120	ppb
1,2-Dichloroethane	ND	ppb	120	ppb
Benzene	ND	ppb	120	ppb
Trichloroethene	ND	ppb	120	ppb
1,2-Dichloropropane	ND	ppb	120	ppb
Methylmethacrylate	ND	ppb	120	ppb
Bromodichloromethane	ND	ppb	120	ppb
Dibromomethane	ND	ppb	120	ppb
2-Methyl 2-Pentanone	ND	ppb	120	ppb
2-Hexanone	ND	ppb	120	ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration

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ANALYSIS REPORT - EPA 8240/8260

Reviewed by: _____

05/04/93

Project

U.F.I.

129-09 Jamaica Ave

Handler: Mike Mulqueen

Custody Document C1351

Received: 04/21/93 5:20 PM

Sampled by: Mike Mulqueen

Sample 5 (continued)

Custody: C1351 Phase: Grab

Collected: 04/21/93 2:00 PM

Location: Boring 8 at 7'

Remarks:

Analysis Information

Analyzed: 04/28/93

Dilution: 6

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
c 1,3-Dichloro 1-Propene	ND	ppb	120	ppb
Toluene	ND	ppb	120	ppb
t1,3-Dichloro 1-Propene	ND	ppb	120	ppb
1,1,2-Trichloroethane	ND	ppb	120	ppb
Tetrachloroethene	ND	ppb	120	ppb
Dibromochloromethane	ND	ppb	120	ppb
1,2-Dibromoethane (EDB)	ND	ppb	120	ppb
Chlorobenzene	ND	ppb	120	ppb
Ethylbenzene	240	ppb	120	ppb
m&p-Xylene	858	ppb	120	ppb
o-Xylene	320	ppb	120	ppb
Styrene	ND	ppb	120	ppb
Bromoform	ND	ppb	120	ppb
1,1,2,2-Tetrachloroethane	ND	ppb	120	ppb
1,2,3-Trichloropropane	ND	ppb	120	ppb
1,4-Dichloro-2-Butene	ND	ppb	120	ppb
1,3-Dichlorobenzene	ND	ppb	120	ppb
1,4-Dichlorobenzene	ND	ppb	120	ppb
1,2-Dichlorobenzene	ND	ppb	120	ppb
1,2-Dibromo3chloropropane	ND	ppb	120	ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND=Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR=Not Reported;SM=Sample;E=Quantitated above calibration

Member



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