REPORT

Draft for EPA Review

Pre-Design Report
Volume III of III

General Electric Company

Fletcher's Paint Works and Storage
Facility Superfund Site Operable Unit 1
Milford, New Hampshire

January 2005
Revised April 2009

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

SDMS DocID 449011

Table of Contents

Volume III of III

Appendices

H Select Soil Boring Logs
I Test Pit Logs and Geophysical Data
J Miscellaneous Monitoring Well Information
K Thermal Desorption Treatability Testing Report
L Data Validation Correspondence and Soil Sampling Data Validation Reports

Appendix H

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Appendix H

Select Soil Boring Logs

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Draft for EPA Review

Elm Street Area

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Date Start/Finish: 8/17/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122335.9 **Easting:** 987493.1 **Casing Elevation:** NA **Borehole Depth:** 12' below grade **Surface Elevation:** 259.9' **Geologist:** Michael Arlauckas	**Boring ID:** 3-CS-S08A **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260							
				CAP	NA		Fabric at 1.0' bgs. Cap approximately 1' thick.	
							Dark brown fine to medium SAND, little coarse Sand, moist.	
		1	3.6	0-1	0.27		Brown fine to medium SAND, little coarse Sand, moist.	Borehole backfilled with Bentonite to grade.
				1-3	0.31			
5	255	2	3.2	3-5	0.21		Brown fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel, trace Rock fragments (Granite).	
				5-7	0.19			
		3	3.8	7-9	0.22		Dark brown to black fine to medium SAND, little Ash and Cinders, trace subangular to subrounded fine Gravel, trace Glass.	
10	250			9-11	0.23			
15	245							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/18/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122440.9 **Easting:** 987313.9 **Casing Elevation:** NA **Borehole Depth:** 16' below grade **Surface Elevation:** 250.3' **Geologist:** Michael Arlauckas	**Boring ID:** EB-03B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	250			CAP	NA		Fabric at 1.0' bgs. Cap approximately 1.0' thick.	
		1	3.9	0-1	0.52		Dark gray to black fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel, dry.	Borehole backfilled with Bentonite to grade.
				1-3	0.51			
		2	3.2	3-5	0.49		Black SILT, little organics, odor (paint thinner).	
5	245			5-7	0.21		Dark gray fine to medium SAND, some coarse Sand, trace subangular fine Gravel and rock fragments, slight odor.	
		3	3.7	7-9	0.21		Refusal at 8.0' bgs (2nd attempt). Refusal at 8.5' bgs (1st attempt).	
10	240			9-11	0.23			
		4	3.5	11-13	0.29		Gray very fine to fine SAND, moist. Dark gray fine to medium SAND, some coarse Sand, trace subangular fine Gravel and Rock fragments, moist to wet.	
15	235			13-15	0.31			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Due to high moisture content (high humidity), the FID was not responding properly even after recalibration.

Date Start/Finish: 8/10/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122318.8 **Easting:** 987446.5 **Casing Elevation:** NA **Borehole Depth:** 28' below grade **Surface Elevation:** 259.6' **Geologist:** Leanne Roulier	**Boring ID:** EB-15SW **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				CAP	NA		Fabric at 1.1' bgs. Cap approximately 1.5' thick.	
		1	2.8	0-1	NA		Light brown fine to medium SAND, little fine to medium angular to subangular Gravel, loose, moist.	Borehole backfilled with Bentonite to grade.
				1-3	1.2			
	255							
5		2	1.4	3-5	12.03			
				5-7	0.42			
				7-9	6.02		BRICK, COAL, ASH, CINDERS, GLASS, and CONCRETE, some fine to medium Sand, loose, moist.	
	250							
10		3	1.2					
				9-11	4.62			
				11-13	0.4		Medium brown fine to medium SAND, some Silt and pulverized Brick, little light blue granular material from 12.9' - 13.1', trace Glass and Ash, loose, moist to wet.	
		4	1.2					
	245							
15				13-15	0.27			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: EB-15SW

Borehole Depth: 28' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				13-15	0.27		Red-brown fine to medium SAND, some Brick, trace Glass and Fabric, wet.	
		5	1.2	15-17	0.27			Borehole backfilled with Bentonite to grade.
	240			17-19	0.31			
20							No Fabric below 20' bgs.	
		6	2.0	19-21	0.25		Dark brown fine SAND and SILT, trace Glass and Coal Dust, firm, moist to wet.	
				21-23	0.35			
							Dark brown SILT, wet.	
	235						Gray medium SAND, saturated.	
25		7	2.8	23-25	NA			
				25-28	NA			
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/03/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122655.8 **Easting:** 987138.7 **Casing Elevation:** NA **Borehole Depth:** 8' below grade **Surface Elevation:** 237.8' **Geologist:** Adam Baird	**Boring ID:** ESSB-A02 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	240							
0								
		1	2.5	0-1	2.66		Brown fine SAND, little Silt.	
				1-3	3.53			Borehole backfilled with Bentonite to grade.
	235							
				3-5	3.76		Brown fine SAND, little Silt, trace subrounded coarse Sand, wet at 4' bgs.	
5		2	2.2	5-7	9.45			
	230			7-8	NA			
10								
	225							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/03/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122605.8 **Easting:** 987143.1 **Casing Elevation:** NA **Borehole Depth:** 8' below grade **Surface Elevation:** 241.6' **Geologist:** Adam Baird	**Boring ID:** ESSB-C02 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	240	1	3.0	0-1	3.14		Brown fine SAND, some Silt, trace Roots.	Borehole backfilled with Bentonite to grade.
				1-3	2.90		Light brown fine to medium SAND.	
							Brown fine SAND, trace Roots, wet at 3' bgs.	
5	235	2	3.3	3-5	3.14		Gray-brown fine SAND, little Silt.	
				5-7	NA			
				7-9	NA			
10	230							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/5/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122560.6 **Easting:** 987197.2 **Casing Elevation:** NA **Borehole Depth:** 12' below grade **Surface Elevation:** 245.6' **Geologist:** Adam Baird	**Boring ID:** ESSB-E04 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
0	245			CAP	NA		Cap approximately 1' thick.
		1	4.0	0-1	1.40		Orange brown fine to medium SAND, little subrounded coarse Sand.
				1-3	1.93		Gray brown fine to medium SAND.
							Black fine to medium SAND, little Silt.
5	240	2	2.1	3-5	1.83		Black fine to medium SAND, little Silt, trace subrounded coarse Sand.
				5-7	2.20		Pulverized "salt and pepper" GRANITE.
		3	3.5	7-9	1.98		Gray brown medium SAND, little subrounded coarse Sand, trace Silt. Wet at 9.0' bgs.
							Light brown medium SAND, little subrounded coarse Sand.
10	235			9-11	9.12		Gray fine SAND, little medium Sand.
15	230						

Boring Construction: Borehole backfilled with Bentonite to grade.

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Date Start/Finish: 2/9/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122515.4 **Easting:** 987251.6 **Casing Elevation:** NA **Borehole Depth:** 16' below grade **Surface Elevation:** 247.8' **Geologist:** Adam Baird	**Boring ID:** ESSB-G06 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	250							
0				CAP	NA		Cap approximately 1' thick.	
							Brown SILT, little fine to medium Sand.	
				0-1	1.44		Pulverized "salt and pepper" GRANITE.	
		1	3.7					Borehole backfilled with Bentonite to grade.
	245			1-3	1.99		Brown fine to medium SAND, trace subrounded Gravel.	
							"Salt and pepper" pulverized GRANITE.	
5				3-5	1.87		Gray brown fine to medium SAND, little Gravel, trace Brick.	
		2	2.6					
				5-7	2.34			
	240							
							Brown SILT, some fine to medium Sand.	
				7-9	4.13		Gray brown fine to medium SAND.	
10		3	3.5					
				9-11	4.01		Wet at 11.0' bgs.	
	235						Gray brown fine to medium SAND, trace subrounded coarse Sand.	
		4	3.7		6.67			
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/29/04 **Drilling Company:** BBL **Driller's Name:** David Grills **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122490.4 **Easting:** 987253.6 **Casing Elevation:** NA **Borehole Depth:** 12' below grade **Surface Elevation:** 248.1' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-H06 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	250							
0				CAP	NA		Fabric at 1.0' bgs. Cap approximately 1.0' thick.	
							Dark brown to black SILT and very fine SAND.	
				0-1	2.15		Broken Rock fragments [Granite].	
		1	3.9				Dark gray SILT, trace fine to medium Sand, trace subangular fine Gravel, moist.	Borehole backfilled with Bentonite to grade.
	245			1-3	2.36			
5				3-5	2.11		Dark brown fine SAND, trace Silt and medium Sand, Organics, odor.	
		2	4.0					
				5-7	2.06			
	240						Dark brown SILT, trace very fine Sand and Organics, odor.	
				7-9	1.98			
10		3	3.9				Brown to tan fine to medium SAND, moist to wet.	
				9-11	2.01			
	235							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/10/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122465.4 **Easting:** 987256 **Casing Elevation:** NA **Borehole Depth:** 16' below grade **Surface Elevation:** 248.5' **Geologist:** Adam Baird	**Boring ID:** ESSB-I06 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	250							
0				CAP	NA		1.0 ' of cap material present. Cap approximately 1' thick.	
		1	3.0	0-1	0.3		Brown SILT, some fine to medium Sand, trace Wood, trace subrounded Gravel.	Borehole backfilled with Bentonite to grade.
	245			1-3	2.36			
5		2	3.3	3-5	3.05		Orange-brown fine to medium SAND, little subrounded coarse Sand.	
				5-7	3.76			
	240	3	3.5	7-9	4.27		Brown SILT, little fine Sand.	
10							Light brown well sorted fine SAND.	
				9-11	5.37			
	235	4	2.6	11-13	4.01		Brown fine to medium SAND, some subrounded coarse Sand. Wet at 13' bgs.	
15				13-15	4.42			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/13/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122467.9 **Easting:** 987280.6 **Casing Elevation:** NA **Borehole Depth:** 16' below grade **Surface Elevation:** 249.3' **Geologist:** Leanne Roulier	**Boring ID:** ESSB-I07 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	250							
0				CAP	NA		Fabric at 1.1' bgs. Cap approximately 1.5' thick.	
		1	3.0	0-1	NA		Dark brown fine to medium SAND, some fine to medium Gravel and coarse Sand, trace blue-green paint-like substance at 1.5' (<0.01').	Borehole backfilled with Bentonite to grade.
				1-3	0.35			
	245						Light brown medium SAND, little fine Sand, trace subangular and round Gravel, loose, moist.	
5		2	2.0	3-5	1.25			
				5-7	1.02			
	240			7-9	0.65		Dark brown fine SAND and SILT, firm, moist, grading to light gray fine SAND with trace laminae of brown Silt.	
10		3	3.0					
				9-11	0.53			
							Medium gray to light brown medium to coarse SAND, loose, moist.	
				11-13	0.42			
	235	4	3.5					
15				13-14.5	NA			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/13/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122442.9 **Easting:** 987283.3 **Casing Elevation:** NA **Borehole Depth:** 16' below grade **Surface Elevation:** 249.7' **Geologist:** Leanne Roulier	**Boring ID:** ESSB-J07 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	250							
0				CAP	NA		Fabric at 0.8' bgs. Cap approximately 1' thick.	
		1	3.2	0-1	NA		Light brown medium SAND, trace coarse Sand, trace pulverized Granite and Brick, loose, moist.	Borehole backfilled with Bentonite to grade.
				1-3	-0.25			
5	245	2	2.0	3-5	-0.17			
				5-7	0.02			
		3	2.4	7-9	NA			
10	240						Dark brown fine SAND and SILT, firm.	
				9-11	-0.19		Light gray fine to medium SAND, trace coarse Sand, loose, wet.	
		4	2.5	11-13	-0.07		Light brown well sorted medium to coarse SAND.	
							Light gray, well sorted, medium to coarse SAND. Saturated at 13.3' bgs.	
15	235			13-15	-0.02			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/11/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122420 **Easting:** 987310.2 **Casing Elevation:** NA **Borehole Depth:** 20' below grade **Surface Elevation:** 250.8' **Geologist:** Adam Baird	**Boring ID:** ESSB-K08 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	250			CAP	NA		Cap approximately 1' thick.	
		1	4.0	0-1	28.66		Orange-brown fine to medium SAND, little Silt, trace roots.	Borehole backfilled with Bentonite to grade.
				1-3	15.95			
5	245	2	2.2	3-5	15.03		Brown fine to medium SAND, little blue and orange paint chips. Refusal at 5.5' bgs (1st and 2nd attempts).	
				5-7	14.11			
		3	2.4	7-9	15.16		Brown fine to medium SAND, trace subrounded coarse Sand. Refusal at 9.8' bgs (3rd attempt).	
10	240			9-11	14.24		Black SILT, little fine to medium Sand, trace Brick and Glass. [FILL]	
		4	3.0	11-13	14.55		Light brown fine to medium SAND.	
15	235			13-15	14.06			

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-K08

Borehole Depth: 20' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
							Light brown fine to medium SAND.	
				15-17	23.92		Black CINDERS, little medium Sand, odor.	
		5	3.1				Gray-brown medium to coarse subrounded SAND.	Borehole backfilled with Bentonite to grade.
				17-19	14.17			
20								
	230							
25								
	225							
30								
	220							
35								
	215							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/9/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122421.6 **Easting:** 987523.31 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 256.8' **Geologist:** Adam Baird	**Boring ID:** ESSB-K16 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0								
				CAP	NA		Cap approximately 1.0' thick.	
	255	1	3.6	0-1	3.87		Orange brown fine to medium SAND, trace Silt.	
				1-3	2.12		Brown black fine to medium SAND, little Silt, trace subrounded Gravel and Brick.	Borehole backfilled with Bentonite to grade.
5		2	3.7	3-5	1.53		Orange brown fine to medium SAND, trace Silt and Roots.	
	250			5-7	2.17			
		3	3.0	7-9	4.69			
10				9-11	3.12			
	245	4	3.1	11-13	10.13		Brown fine to medium SAND, some Silt.	
15				13-15	7.33			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-K16

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	240	5	2.8	15-17	6.87		Brown SILT, little fine to medium Sand, trace subrounded Gravel.	Borehole backfilled with Bentonite to grade.
				17-19	16.89			
20		6	3.1	19-21	1632.0		Gray brown fine SAND, little Silt, strong odor. Wet at 21.0' bgs.	
	235			21-23	2552.0			
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/24/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122433.8 **Easting:** 987583.1 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 258.5' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-K18E **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				0-1	0.79		Dark brown SILT, little fine Sand, trace Organics (leaves, roots, branches), moist.	
		1	3.1	1-3	0.79			Borehole backfilled with Bentonite to grade.
							Brown very fine to fine SAND, trace medium Sand.	
	255			3-5	0.93			
							Pulverized GRANITE.	
5							Tan fine to medium SAND, trace coarse Sand, trace subangular to subrounded fine Gravel.	
		2	3.9	5-7	1.32		Brown fine to medium SAND.	
				7-9	0.49		Tan fine to medium SAND, trace coarse Sand, trace subangular to subrounded fine Gravel.	
	250							
10		3	3.2	9-11	0.51			
				11-13	0.43		Dry below 12' bgs.	
	245	4	4.0	13-15	0.72			
15				15-17	0.69			

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-K18E

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	0.69		Tan fine to medium SAND, trace coarse Sand, trace subangular to subrounded fine Gravel.	
							Reddish brown fine SAND, little medium Sand.	
	240	5	3.9	17-19	1.21			Borehole backfilled with Bentonite to grade.
20				19-21	1.32		Reddish brown fine SAND, little medium Sand, moist.	
							Orange fine to medium SAND, little coarse Sand.	
		6	3.8	21-23	2.11		Dark gray fine SAND, wet.	
	235			23-24	0.94			
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/19/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122429.3 **Easting:** 987539.3 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 258.1' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-K18W **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				CAP	NA		Fabric pieces at 0.9' bgs. Cap approximately 1' thick.	
							Dark brown SILT, trace fine to medium Sand, moist.	
				0-1	NA		Tan very fine to fine SAND.	
		1	3.1				Broken CONCRETE.	Borehole backfilled with Bentonite to grade.
	255			1-3	NA		Brown fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel.	
5				3-5	NA		Light brown fine to medium SAND, trace coarse Sand.	
		2	3.4					
				5-7	NA			
	250							
				7-9	NA		Brown fine to medium SAND, some coarse Sand, trace subangular to subrounded fine Gravel.	
10		3	3.3					
				9-11	NA			
							Dark gray fine to medium SAND, trace Rock fragments (Granite).	
	245			11-13	NA			
							Gray fine SAND, trace medium Sand.	
		4	3.6					
15				13-15	NA		Brown to tan fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel, moist.	

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-K18W

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	NA		Dark brown very fine to fine SAND, trace medium Sand.	Borehole backfilled with Bentonite to grade.
	240	5	3.5				Brown fine to medium SAND, some coarse Sand, moist to wet.	
				17-19	NA			
20							Wet at 20' bgs.	
				19-21	NA			
		6	3.2					
	235			21-23	NA			
25								
	230							
30								
	225							
35								

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Date Start/Finish: 2/10/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122400.7 **Easting:** 987410.9 **Casing Elevation:** NA **Borehole Depth:** 20' below grade **Surface Elevation:** 254.9' **Geologist:** Adam Baird	**Boring ID:** ESSB-L12 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	255							
				CAP	NA		Cap approximately 1.0' thick.	
				0-1	7.56		Orange brown SILT, little fine Sand, trace Organics (roots).	
		1	2.8	1-3	5.84		Pulverized "salt and pepper" GRANITE.	Borehole backfilled with Bentonite to grade.
							Brown fine to medium SAND with pulverized "salt and pepper" Granite.	
-5	250			3-5	6.81		Brown fine to medium SAND, little coarse subrounded Sand, trace Silt.	
		2	2.1	5-7	5.81			
				7-9	8.13		Brown SILT, some fine Sand, trace organics (roots).	
10	245	3	2.4	9-11	8.92		Refusal at 10.8' bgs (1st attempt).	
							Black medium SAND, little Coal and Cinders.	
				11-13	6.53		Orange brown fine to medium SAND.	
		4	2.1				Black medium SAND, little Coal and Cinders, odor.	
15	240			13-15	7.11			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-L12

Borehole Depth: 20' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
							Black medium SAND, little Coal and Cinders, odor.	Borehold backfilled with Bentonite to grade.
		5	2.0	15-17	6.38		Brown fine to medium SAND.	
							Wet at 17.6' bgs.	
				17-19	7.89			
20	235							
25	230							
30	225							
35	220							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/25/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122390.8 **Easting:** 987388.2 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 254.0' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-L12SW **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	255							
0				CAP	NA		Fabric at 1.1' bgs. Cap approximately 1.0' thick.	
							Dark brown SILT, trace Organics.	
				0-1	0.51		Light gray very fine to fine SAND, trace medium Sand and Silt.	
		1	3.5				Dark brown SILT, trace fine to medium Sand, moist.	Borehole backfilled with Bentonite to grade.
				1-3	0.33		Tan and brown fine to medium SAND, trace coarse Sand.	
	250							
5				3-5	0.29		Tan to brown fine SAND, trace medium and coarse Sand, trace subangular to subrounded fine Gravel.	
		2	2.9					
				5-7	0.67			
	245			7-9	0.21		Dark brown SILT, trace fine Sand, subangular and subrounded fine Gravel, and Glass.	
10		3	3.1					
				9-11	0.23			
				11-13	0.56			
	240	4	2.8				Orange brown SILT, trace very fine to fine Sand.	
15				13-15	0.51			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-L12SW

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	0.49		Orange brown SILT, trace very fine to fine Sand.	Borehold backfilled with Bentonite to grade.
							Black CINDERS and ASH, trace Wood, Slag, and Glass.	
							Dark gray SILT.	
		5	3.3				Brown fine SAND, trace medium Sand.	
	235			17-19	0.31		Broken Rock fragments.	
20							Gray very fine to fine SAND, moist to wet.	
				19-21	0.24		Brown fine to medium SAND, trace coarse Sand, wet. Saturated at 21' bgs.	
		6	3.1					
				21-23	0.27			
	230							
25								
	225							
30								
	220							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/10/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122403.7 **Easting:** 987462.6 **Casing Elevation:** NA **Borehole Depth:** 12.2' below grade **Surface Elevation:** 256.2' **Geologist:** Adam Baird	**Boring ID:** ESSB-L14 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	255	1	2.5	CAP	NA		Cap approximately 1.0' thick.	Borehole backfilled with Bentonite to grade.
				0-1	4.14		Brown fine to medium SAND, some Silt, trace blue-gray fine to medium Sand.	
				1-3	3.09			
5	250	2	2.1	3-5	5.08		Light brown fine to medium SAND, trace subrounded coarse Sand.	
				5-7	5.04			
10	245	3	2.2	7-9	2.86		Brown fine to medium SAND, some Silt, trace subrounded Gravel.	
				9-11	4.17		Refusal at 11.8' bgs (3rd attempt).	
		4	NA	NA	NA		Refusal at 12.1' bgs (2nd attempt).	
15							No recovery (1st attempt). Refusal at 12.2' bgs.	

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/25/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122404.9 **Easting:** 987474.4 **Casing Elevation:** NA **Borehole Depth:** 12' below grade **Surface Elevation:** 255.8' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-L14E **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	255			CAP	NA		Fabric at 1.0' bgs. Cap approximately 1.0' thick.	
							Dark brown fine SAND, some medium to coarse Sand.	
		1	2.9	0-1	1.35		Brown fine SAND, trace coarse Sand, moist.	Borehole backfilled with Bentonite to grade.
				1-3	0.97			
5	250	2	3.5	3-5	0.31			
				5-7	0.38			
		3	3.1	7-9	2.37			
10	245			9-11	0.57			
15	240							

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Date Start/Finish: 8/24/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122411.6 **Easting:** 987510.2 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 257.2' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-L16 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				0-1	0.56		Dark brown fine SAND and SILT, little Organics, trace Wood, Glass, and Brick fragments.	
	255	1	3.9	1-3	0.58		Brown fine to medium SAND, trace coarse Sand.	Borehole backfilled with Bentonite to grade.
				3-5	1.21		Tan fine SAND, little medium Sand, trace coarse Sand.	
5								
		2	3.6	5-7	1.21		Dark brown SILT, little fine Sand, moist.	
	250			7-9	0.97			
10		3	3.2	9-11	1.35		Brown fine to medium SAND, trace coarse Sand, trace subangular to subrounded fine Gravel.	
	245			11-13	2.35		Brown fine SAND, trace medium Sand.	
		4	3.5	13-15	2.35			
15				15-17	5.32			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Four attempts: first attempt - refusal at 3.5' bgs, second attempt (1.0' west) refusal at 6.5' bgs, third attempt (1.0' south) refusal at 10.0' bgs, fourth attempt (1.0' north) successful.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-L16

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	5.32		Brown fine SAND, trace medium Sand.	Borehole backfilled with Bentonite to grade.
	240	5	3.1	17-19	8.97			
20				19-21	12.36		Gray fine to medium SAND, trace coarse Sand, Silt, and Wood fibers, moist to wet.	
	235	6	3.7	21-23	15.61			
				23-24	15.61			
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Four attempts: first attempt - refusal at 3.5' bgs, second attempt (1.0' west) refusal at 6.5' bgs, third attempt (1.0' south) refusal at 10.0' bgs, fourth attempt (1.0' north) successful.

Date Start/Finish: 8/24/04 **Drilling Company:** BBL **Driller's Name:** Rich Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122415.4 **Easting:** 987535.9 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 258.2' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-L17 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				CAP	NA		Fabric at 1.0' bgs. Cap approximately 1' thick.	
							Brown SILT, trace fine Sand, Glass, Wood and Brick fragments, moist.	
				0-1	0.69		Gray Crushed STONE.	
		1	2.9				Brown fine to medium SAND, trace coarse Sand and subangular and subrounded fine Gravel, moist.	Borehole backfilled with Bentonite to grade.
	255			1-3	1.23			
5				3-5	5.61			
		2	3.2					
				5-7	6.56			
	250						Black SILT, trace Wood.	
				7-9	11.31		Tan fine SAND, moist.	
10		3	3.7				Dark brown fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel.	
				9-11	15.23			
	245			11-13	27.49		Brown fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel, moist.	
		4	3.1					
15				13-15	36.31			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-L17

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	58.96		Brown fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel, moist.	
	240	5	2.9					Borehole backfilled with Bentonite to grade.
				17-19	101			
20							Dark gray fine to medium SAND, little coarse Sand, mustard color-yellow flakes at 21.9' - 22.1' bgs, moist to wet.	
				19-21	138			
		6	2.1					
	235			21-23	121			
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/19/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122418.1 **Easting:** 987561.7 **Casing Elevation:** NA **Borehole Depth:** 22' below grade **Surface Elevation:** 258.3' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-L18 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				CAP	NA		Fabric at 1.1' bgs. Cap approximately 1' thick.	
				0-1	0.53		Dark brown to black fine to medium SAND, little Silt, trace coarse Sand.	
		1	3.2				Brown very fine to fine SAND, trace coarse Sand.	Borehole backfilled with Bentonite to grade.
	255			1-3	1.32		Dark brown fine to medium SAND, trace coarse Sand.	
5				3-5	8.56		Dark brown fine to medium SAND, trace coarse Sand.	
							Gray very fine to fine SAND, trace medium Sand.	
		2	3.1	5-7	4.27		Brown fine SAND, little medium to coarse sand, trace subangular to subrounded fine Gravel.	
	250			7-9	9.69			
10		3	3.5	9-11	15			
	245			11-13	11			
		4	2.7				Dark brown to black SILT, trace fine to medium Sand, petroleum odor.	
15				13-15	17			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-L18

Borehole Depth: 22' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	538		Dark brown to black SILT, trace fine to medium Sand, petroleum odor.	
	240	5	3.7					Borehole backfilled with Bentonite to grade.
				17-19	1658		Wet at 19.0 ft bgs.	
20								
		6	2.1	19-21	1835		Brown to black medium to coarse SAND, little fine Sand, heavy odor, sheen, wet.	
	235							
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/25/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122380.5 **Easting:** 987370.2 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 254.1' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-M10E **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	255							
0				CAP	NA		Fabric at 1.0' bgs. Cap approximately 1' thick.	
							Crushed stone.	
				0-1	NA		Brown SILT, trace fine to medium Sand.	
		1	3.6				Orange-brown fine to medium SAND, trace coarse Sand.	Borehole backfilled with Bentonite to grade.
				1-3	0.23		Tan to brown fine SAND, trace medium to coarse Sand.	
	250							
5				3-5	0.53		Dark brown fine SAND, little Silt, trace Rock fragments (Granite).	
		2	2.7					
				5-7	0.79			
	245			7-9	1.01			
10		3	3.1					
				9-11	0.23			
				11-13	0.69		Orange-brown SILT, trace very fine to fine Sand.	
	240	4	2.8					
15				13-15	0.71			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-M10E

Borehole Depth: 24' below grade

DEPTH / ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
						Orange-brown SILT, trace very fine to fine Sand.	
			15-17	1.21		Black CINDERS and ASH, trace Wood, Slag, Glass, and Rubber. {FILL}	
	5	2.9				Brown fine SAND, trace medium Sand.	Borehole backfilled with Bentonite to grade.
235			17-19	0.73		Broken Rock fragments.	
20						Gray very fine to fine SAND, moist to wet.	
			19-21	1.21		Brown fine to medium SAND, trace coarse Sand, wet. Wet at 20.7' bgs.	
	6	3.1					
			21-23	1.35			
230							
25							
225							
30							
220							
35							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/4/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122392.4 **Easting:** 987563.6 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 260.2' **Geologist:** Adam Baird	**Boring ID:** ESSB-M18 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260			CAP	NA		Fabric at 1.1' bgs. Cap approximately 1' thick.	
		1	2.2	0-1	1.84		Orange-brown fine to medium SAND, little subrounded Gravel.	Borehole backfilled with Bentonite to grade.
				1-3	2.59			
-5	255			3-5	2.25		Light brown fine SAND, trace Roots.	
		2	3.3	5-7	2.39		Brown fine SAND, some Silt, trace Roots.	
				7-9	2.13		Brown fine SAND, some Silt, trace subrounded coarse Sand.	
-10	250	3	3.4	9-11	2.5			
				11-13	2.61		Orange-brown fine SAND, trace subrounded coarse Sand and yellow Plastic.	
		4	2.0					
-15	245			13-15	1.85			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-M18

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
		5	2.3	15-17	1.73		Orange-brown fine to medium SAND, trace coarse Sand, trace subrounded coarse Gravel.	Borehole backfilled with Bentonite to grade.
				17-19	1.92			
20	240	6	2.1	19-21	7.97		Black ORGANICS and SILT, little fine Sand, trace Gravel. Wet below 21' bgs.	
				21-23	3.32			
25	235							
30	230							
35	225							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/17/04 **Drilling Company:** BBL **Driller's Name:** Rich Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122393.8 **Easting:** 987587.7 **Casing Elevation:** NA **Borehole Depth:** 7' below grade **Surface Elevation:** 260.7' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-M19 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260	1	3.2	0-1	1.52		Dark brown decomposed ORGANICS, Rootlets, Branches, and Leaves, moist. Refusal in Rock at 1' bgs (1st attempt).	Borehole backfilled with Bentonite to grade.
				1-3	1.21			
				3-5	0.95		Brown fine to medium SAND, little coarse Sand, trace subangular to subrounded Gravel, Wood and Glass, dry.	
5	255	2	2.8	5-7	1.11			
10	250							
15	245							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/17/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122362.7 **Easting:** 987516.6 **Casing Elevation:** NA **Borehole Depth:** 12' below grade **Surface Elevation:** 260' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-N16 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260							
				CAP	NA		Fabric at 1.1' bgs. Cap approximately 1' thick.	
		1	3.5	0-1	0.25		Light brown to tan fine to medium SAND, trace coarse Sand, dry.	
							Broken GRANITE fragments, dry.	Borehole backfilled with Bentonite to grade.
				1-3	0.32		Light brown fine to medium SAND, trace coarse Sand, trace subangular to subrounded fine Gravel, moist.	
							Dark brown SILT.	
5	255			3-5	0.31		Light brown to tan fine SAND, trace medium to coarse Sand.	
		2	3.2					
				5-7	0.26			
				7-9	0.28		Tan fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel.	
10	250	3	3.6				Brown fine to medium SAND, little coarse Sand, moist.	
				9-11	0.31			
15	245							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/17/04 **Drilling Company:** BBL **Driller's Name:** Rich Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122367.5 **Easting:** 987566.4 **Casing Elevation:** NA **Borehole Depth:** 12' below grade **Surface Elevation:** 260.3' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-N18 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260	1	3.7	CAP	NA		Fabric at 1.4' bgs. Cap approximately 1' thick.	Borehole backfilled with Bentonite to grade.
				0-1	NA		Brown fine to medium SAND, trace coarse Sand and subangular to subrounded fine Gravel.	
				1-3	0.54		Reddish-brown WOOD, moist.	
5	255	2	3.5	3-5	0.52		Brown fine SAND, trace medium to coarse Sand.	
				5-7	0.71			
		3	3.5	7-8	0.32			
10	250			8-10	0.32			
				10-12	0.54			
15	245							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/29/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122324.9 **Easting:** 987368.8 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 258.0' **Geologist:** Adam Baird	**Boring ID:** ESSB-O10 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				CAP	NA		Fabric at 1.1' bgs. Cap approximately 1' thick.	
		1	2.9	0-1	2.11		Gray-brown fine to medium SAND, little subrounded Gravel.	Borehole backfilled with Bentonite to grade.
	255			1-3	2.17			
5		2	2.6	3-5	2.29			
				5-7	2.60		White pulverized ROCK with brown fine SAND.	
	250			7-9	2.84		Brown fine to medium SAND, little Silt, trace Brick.	
10		3	3.0	9-11	2.33		Brown-black fine to medium SAND, little Brick, Coal, and Cinders.	
	245			11-13	2.28			
		4	2.0	13-15	4.06			
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-O10

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	240	5	2.1	15-17	2.49		Brown-orange fine to medium SAND, little subrounded Gravel.	Borehole backfilled with Bentonite to grade.
				17-19	3.08			
20		6	2.7	19-21	3.29		Brown fine to medium SAND. Wet at 21' bgs.	
	235			21-23	3.34			
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/29/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122329.2 **Easting:** 987418.6 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 258.5 **Geologist:** Adam Baird	**Boring ID:** ESSB-O12 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				CAP	NA		Fabric at 1.2' bgs. Cap approximately 1' thick.	
		1	2.6	0-1	2.16		Orange-brown fine to medium SAND, little coarse subrounded Sand.	Borehole backfilled with Bentonite to grade.
	255			1-3	3.26			
5		2	3.1	3-5	3.07		Orange-brown fine to medium SAND.	
				5-7	2.87			
	250	3	2.8	7-9	2.81			
10				9-11	2.71		Brown-black fine to medium SAND, little Coal and Cinders.	
	245	4	3.0	11-13	3.11		Black fine to medium SAND.	
15				13-15	3.62		Brown fine to medium SAND.	

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-O12

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	3.43		Orange-brown fine to medium SAND, little Concrete and Brick. (FILL)	Borehole backfilled with Bentonite to grade.
		5	2.2					
	240			17-19	3.71		Wet at 19.0' bgs.	
20								
				19-21	52.12			
		6	2.9				Gray medium SAND.	
	235			21-23	NA			
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/11/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122336.1 **Easting:** 987468.4 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 258.6' **Geologist:** Leanne Roulier	**Boring ID:** ESSB-014E **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0		1	2.4	CAP	NA		Fabric at 0.6' bgs. Cap approximately 1' thick.	
				NA	NA		Light brown fine to medium SAND, little pulverized Concrete at 1.2' bgs, trace yellow Paint-like staining, loose, moist.	Borehole backfilled with Bentonite to grade.
	255			1-3	0.40			
5		2	2.1	3-5	0.37		Light brown medium SAND, pulverized cobble at 4' bgs.	
				5-7	0.41		Medium brown/dark gray fine to medium SAND, some Cinders at 5.7' bgs, trace Ash and Glass.	
	250	3	1.6	7-9	0.27		Red-brown ASH and medium SAND, trace Gravel, some Ash, Cinder, and Brick, trace Glass, loose, wet.	
10				9-11	0.02			
	245	4	1.7	11-13	0.01		Red BRICK, pulverized CONCRETE, and GLASS, some medium Sand, loose, wet.	
15				13-15	0.10			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-014E

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
		5	2.0	15-17	0.35		Red BRICK, COAL, and GLASS, some Ash, fine to medium Sand, and Cinders.	Borehole backfilled with Bentonite to grade.
	240			17-19	0.46			
20							GLASS and GRAVEL, saturated.	
		6	2.2	19-21	0.41		Dark brown fine SAND and SILT, trace natural Organics, soft, moist. [PEAT - Native]	
				21-23	0.32		Gray fine to medium SAND, saturated.	
	235							
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/11/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122340.5 **Easting:** 987429.9 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 257.7' **Geologist:** Leanne Roulier	**Boring ID:** ESSB-014W **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				CAP	NA		Fabric at 0.8' bgs. Cap approximately 1' thick.	
		1	3.6	0-1	NA		Light brown fine to medium SAND, trace coarse Sand and fine to medium angular Gravel, little pulverized Concrete at 1.8' bgs.	Borehole backfilled with Bentonite to grade.
	255			1-3	0.02			
5		2	2.7	3-5	0.01		Light brown medium SAND, little fine Sand, trace subrounded Gravel, Silt, and coarse Sand, loose, moist.	
				5-7	0.35			
	250	3	2.3	7-9	0.47		No Silt below 8.0' bgs.	
10				9-11	0.20			
	245	4	2.0	11-13	0.03		Dark brown to red layered ASH, CINDERS, BRICK, and medium to coarse SAND, multicolored (blue, red, white) paint from 13' - 13.02' bgs, white paint has consistency of gum, slight odor, moist.	
15				13-15	2002			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-014W

Borehole Depth: 24' below grade

DEPTH / ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
240	5	1.5	15-17	0.95		Dark brown to black medium to coarse SAND, GLASS, and CINDERS, loose, wet.	Borehole backfilled with Bentonite to grade.
			17-19	2.52			
20	6	2.7	19-21	0.15		Dark brown SILT (Peat), trace iron mottling and fine Sand; Grades to gray-brown fine SAND and SILT.	
235			21-23	0.36		Saturated at 22' bgs.	
25							
230							
30							
225							
35							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/17/04 **Drilling Company:** BBL **Driller's Name:** Rich Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122339.8 **Easting:** 987543.6 **Casing Elevation:** NA **Borehole Depth:** 12' below grade **Surface Elevation:** 260.4' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-O17 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260			CAP	NA		Fabric at 1.0' bgs. Cap approximately 1' thick.	
							Tan fine SAND.	
		1	3.3	0-1	0.25		Dark brown fine to medium SAND, trace coarse Sand, Silt and subangular and subrounded fine Gravel.	Borehole backfilled with Bentonite to grade.
				1-3	0.31		Brown fine to medium SAND, dry.	
5	255	2	3.7	3-5	0.32		Tan to brown fine to medium SAND, trace coarse Sand and subangular to subrounded fine Gravel, dry.	
				5-7	0.29			
		3	3.5	7-9	0.26			
10	250			9-11	0.24			
15	245							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/28/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122343.4 **Easting:** 987560.1 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 261.7' **Geologist:** Adam Baird	**Boring ID:** ESSB-O18 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260			CAP	NA		Cap approximately 2' thick.	
		1	3.2	0-1	2.61		Orange brown fine to medium SAND.	Borehole backfilled with Bentonite to grade.
				1-2	2.18			
5	255			2-4	2.36		Black fine to medium SAND.	
		2	2.8	4-6	2.84		Brown medium SAND, trace subrounded Gravel.	
10	250	3	2.4	6-8	3.22		Orange-brown fine to medium SAND, little coarse Sand, little subrounded coarse Gravel.	
				8-10	2.94			
							Trace Glass below 12' bgs.	
15		4	3.6	10-12	2.85		Light brown to orange-brown layered well-sorted fine SAND.	
				12-14	2.57			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-O18

Borehole Depth: 24' below grade

DEPTH / ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
245						Light brown to orange-brown layered well-sorted fine SAND.	
			14-16	3.34			
	5	3.7					Borehole backfilled with Bentonite to grade.
			16-18	3.02			
20						Wet at 20' bgs.	
			18-20	2.81			
240	6	4.0					
			20-22	3.22			
25							
235							
30							
230							
35							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/17/04 **Drilling Company:** BBL **Driller's Name:** Rich Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122343.1 **Easting:** 987581.6 **Casing Elevation:** NA **Borehole Depth:** 10' below grade **Surface Elevation:** 262.4' **Geologist:** Michael Arlauckas	**Boring ID:** ESSB-O18E **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH / ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
265							
0			0-1	1.21		Dark brown SILT, some Organics (rootlets, branches and leaves).	
260	1	3.6	1-3	1.21		Brown fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel, dry.	Borehole backfilled with Bentonite to grade.
			3-5	0.96			
5	2	3.3	5-7	0.58			
255			7-9	0.51			
	3	1.9	9-10	0.32			
10							
250							
15							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/6/04 **Drilling Company:** BBL **Driller's Name:** Michael Arlauckas **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122276.9 **Easting:** 987398.0 **Casing Elevation:** NA **Borehole Depth:** 8' below grade **Surface Elevation:** 263.6' **Geologist:** Leanne Roulier	**Boring ID:** ESSB-Q11 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	265							
0				CAP	NA		Fabric at 0.8' bgs. Cap approximately 1' thick.	
		1	3.4	0-1	NA		Light brown fine to medium SAND, trace subangular Gravel, loose, moist.	Borehole backfilled with Bentonite to grade.
	260			1-3	0.39			
5				3-4	0.40			
		2	2.2	4-6	0.42		Dark brown fine SAND, little Silt, trace angular Gravel, loose, moist.	
				6-7	NA			
	255							
10								
	250							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/29/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122279.5 **Easting:** 987423.0 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 261.7 **Geologist:** Adam Baird	**Boring ID:** ESSB-Q12 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260	1	4.0	CAP	NA		Fabric at 2.0' bgs. Cap approximately 2' thick.	Borehole backfilled with Bentonite to grade.
				0-1	1.02		Orange-brown fine to medium SAND, little subrounded Gravel.	
				1-2	1.22			
5	255	2	2.3	2-4	0.92		Brown SILT, little fine Sand.	
				4-6	1.71		Brown-black fine to medium SAND, trace Concrete.	
10	250	3	2.1	6-8	1.95			
				8-10	2.22		White and brown CONCRETE and GRAVEL, little fine to medium Sand. [FILL]	
15		4	2.6	10-12	2.43		Brown fine to medium SAND.	
				12-14	1.91		Gray-brown fine to medium SAND, little Concrete and Brick. [FILL]	

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-Q12

Borehole Depth: 24' below grade

DEPTH / ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
245	5	2.2	14-16	2.84		Gray-brown fine to medium SAND, little Concrete and Brick. [FILL]	Borehole backfilled with Bentonite to grade.
			16-18	2.24			
20	6	2.1	18-20	2.13		Brown-black fine to medium SAND, trace subrounded Gravel. Wet at 21' bgs.	
240			20-22	1.97			
25							
235							
30							
230							
35							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/22/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122283.8 **Easting:** 987472.9 **Casing Elevation:** NA **Borehole Depth:** 20' below grade **Surface Elevation:** 260.9' **Geologist:** Adam Baird	**Boring ID:** ESSB-Q14 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260	1	3.0	CAP	NA		Fabric at 0.6' bgs. Cap approximately 1.0' thick.	Borehole backfilled with Bentonite to grade.
				0-1	1.89		Light brown fine SAND, little subrounded Gravel.	
				1-3	1.51		Gray-brown fine to medium SAND, little subrounded coarse coarse Sand, trace Brick and Concrete. Refusal at 3.0' below cap (1st attempt).	
5	255	2	2.1	3-5	2.50		Orange-brown fine to medium SAND, little subrounded Gravel.	
				5-7	1.47			
10	250	3	0.0	7-9	NA		No recovery (1st, 3rd, & 4th attempts).	
				9-11	NA			
15	245	4	2.2	11-13	2.03		Brown-black fine to medium SAND, little Brick and Concrete, trace subrounded Gravel.	
				13-15	2.06			

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: ESSB-Q14

Borehole Depth: 20' below grade

DEPTH / ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	5	0.0	15-17	NA		No recovery (4th, 5th, & 6th attempts).	Borehole backfilled with Bentonite to grade.
			17-19	NA			
20 / 240							
25 / 235							
30 / 230							
35 / 225							

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Date Start/Finish: 8/10/04 **Drilling Company:** BBL **Driller's Name:** Rich Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122300.4 **Easting:** 987521.0 **Casing Elevation:** NA **Borehole Depth:** 10' below grade **Surface Elevation:** 261.4 **Geologist:** Leanne Roulier	**Boring ID:** ESSB-Q16N **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260	1	2.4	CAP	NA		Fabric at 1.5' bgs. Cap approximately 2' thick.	
				0-2	NA		Medium brown fine to coarse SAND, little angular Gravel, pulverized Concrete from 2.1' - 2.4' bgs, loose, moist.	Borehole backfilled with Bentonite to grade.
5	255	2	1.4	2-4	0.2		Dark brown-black medium to coarse SAND and fine angular GRAVEL, mostly Ash, Cinders and Coal, trace red Plastic, loose, moist. Low recovery in first attempt.	
				4-6	0.11			
		3	1.2	6-8	0.21		Layered (0.02' - 0.05') ASH, BRICK POWDER and CINDERS, light aquamarine blue granular material at 8.7' - 8.9' bgs, firm, wet.	
10	250							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/10/04 **Drilling Company:** BBL **Driller's Name:** Rich Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122285.6 **Easting:** 987505.6 **Casing Elevation:** NA **Borehole Depth:** 10' below grade **Surface Elevation:** 261.5' **Geologist:** Leanne Roulier	**Boring ID:** ESSB-Q16W **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0				CAP	NA		Fabric at 1.0' bgs. Cap approximately 1' thick.	
	260	1	3.0	0-2	NA		Light to medium brown fine to medium SAND, some fine to medium subangular and subrounded Gravel, trace Brick, Coal, and yellow paint-like material (specks), loose, moist.	Borehole backfilled with Bentonite to grade.
				2-4	0.40		Dark brown fine to medium SAND, little fine to medium subangular Gravel, trace Ash, Brick and Coal, loose, moist.	
5		2	2.0	4-6	0.37		Medium SAND, little fine to coarse Sand, fine to medium subangular Gravel, loose, moist.	
	255			6-8	0.24		Light brown medium to coarse subangular SAND, some medium to coarse angular Gravel, loose, moist.	
		3	1.8	8-9	NA		Dark brown medium SAND, little coarse Sand, trace Slag, Ash and Cinders, loose, moist.	
10								
	250							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/10/04 **Drilling Company:** BBL **Driller's Name:** Rich Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122263.7 **Easting:** 987525 **Casing Elevation:** NA **Borehole Depth:** 10' below grade **Surface Elevation:** 261.5' **Geologist:** Leanne Roulier	**Boring ID:** ESSB-R16 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0								
	260	1	2.0	CAP	NA		Fabric at 0.6' bgs. Cap approximately 1.0' thick. Light brown, angular, medium to coarse, SAND, loose. Pulverized CONCRETE at 0.6' below cap.	Borehole backfilled with Bentonite to grade.
				0-2	NA		Layered ASH, GLASS, CINDERS, and COAL, moist. [FILL]	
				2-4	0.02		Light brown coarse SAND and angular medium GRAVEL, little medium Sand, very loose, moist. Gray rubber-like material at 4' below cap.	
5	255	2	0.4	4-6	0.04			
				6-8	0.07		Medium brown to light brown medium to coarse SAND and angular medium to coarse GRAVEL, little medium Sand, very loose, moist. Trace Coal dust below 8.5' below cap.	
		3	1.3	8-10	NA			
10								
	250							
15								

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Refusal at 1.0' bgs at first and second attempts.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Date Start/Finish: 1/21/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 122243 **Easting:** 987576.9 **Casing Elevation:** NA **Borehole Depth:** 16' below grade **Surface Elevation:** 260.8' **Geologist:** Adam Baird	**Boring ID:** ESSB-S18 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260	1	3.5	CAP	NA		Cap approximately 5.0' thick.	Borehole backfilled with Bentonite to grade.
5	255	2	4.0	0-1	1.17		Dark brown-orange fine to medium SAND, little subrounded Gravel.	
				1-3	1.12		Light brown-orange fine to medium SAND.	
10	250	3	3.0	3-5	0.88		Orange-brown fine to medium SAND, little subrounded Gravel.	
				5-7	0.72		Refusal at 11' bgs (1st attempt). Light brown fine SAND, little medium Sand.	
15	245	4	1.0	7-9	0.49		Wet at 13' bgs.	
				9-11	1101			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Draft for EPA Review

Mill Street Area

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Date Start/Finish: 4/22/04 **Drilling Company:** BBL **Driller's Name:** Adam Baird **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121542.8 **Easting:** 987436.2 **Casing Elevation:** NA **Borehole Depth:** 21.8' below grade **Surface Elevation:** 260.4' **Geologist:** Eric Rodriguez	**Boring ID:** EB-13S **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260			CAP	NA		ASPHALT approximately 1' thick cap.	
		1	4.0	0-1	0.66		Gray-brown with black layers of fine to medium SAND, little subrounded Gravel, loose, poorly sorted. [FILL]	Borehole backfilled with Bentonite to grade.
				1-3	1.27			
5	255	2	4.0	3-5	1.4		Brown medium to fine SAND, well-sorted, grades to medium to coarse Sand 5' below cap, trace subrounded Gravel at 6.5' - 7.0' below cap, moist.	
				5-7	1.35			
10	250	3	4.0	7-9	1.26		Gray-brown fine SAND, little medium Sand, wet.	
				9-11	1.7			
		4	4.0	11-13	1.71		Brown fine to medium SAND, trace subangular coarse Sand.	
15	245			13-15	1.66			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: EB-13S

Borehole Depth: 21.8' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
		5	4.0	15-17	1.46		Gray-brown fine to medium SAND.	Borehole backfilled with Bentonite to grade.
				17-19	2.36			
20	240	6	1.8	19-20.8	2.41			
25	235							
30	230							
35	225							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/27/04 **Drilling Company:** BBL **Driller's Name:** Dave Grills **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121557.2 **Easting:** 987419.3 **Casing Elevation:** NA **Borehole Depth:** 18.5' below grade **Surface Elevation:** 260.7' **Geologist:** Michael Arlauckas	**Boring ID:** EB-13W **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260			0-1	3.22		Medium brown SILT, little fine Sand, trace Organics. Dark brown fine SAND, some medium to coarse Sand, trace subangular fine Gravel, dry.	
		1	3.9	1-3	3.22		Brown fine to medium SAND, trace coarse Sand, trace subangular fine Gravel. Dark brown fine SAND, some medium to coarse Sand, trace fine Gravel, moist.	Borehole backfilled with Bentonite to grade.
							Brown fine SAND, moist.	
				3-5	3.22		Brown fine to medium SAND, trace coarse Sand, moist.	
5	255	2	3.8	5-7	2.81			
				7-9	2.8		Brown fine SAND, trace Silt, wet.	
10	250	3	3.9	9-11	2.69			
				11-13	3.01		Brown very fine to fine SAND, wet.	
		4	4	13-15	3.01			
15	245			15-17	3.01			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: EB-13W

Borehole Depth: 18.5' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
		5	2.7	15-17	2.35		Brown very fine to fine SAND, little medium Sand, trace coarse Sand.	
				17-18.5	23.5			Borehole backfilled with Bentonite to grade.
							Broken GRANITE fragments.	
							Refusal at 18.5' bgs.	
20	240							
25	235							
30	230							
35	225							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/05/04 **Drilling Company:** BBL **Driller's Name:** Richard Blasland **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121647.6 **Easting:** 987332 **Casing Elevation:** NA **Borehole Depth:** 23.5' below grade **Surface Elevation:** 263.8' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-B06 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	265							
0							Pre-probe to 12' bgs.	Pre-probed borehole.
	260							
5		NA	NA	NA	NA			
	255							
10								
	250	1	3.9	12-14	0.0		Dark brown fine to medium SAND, trace coarse Sand, wet.	Borehole backfilled with Bentonite to grade.
15				14-16	0.0			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-B06

Borehole Depth: 23.5' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
		2	4.0	16-18	0.0		Brown very fine to fine SAND, wet.	
				18-20	0.0		Brown fine to medium SAND, trace coarse Sand, trace subangular fine Gravel, wet.	Borehole backfilled with Bentonite to grade.
20	245	3	3.5	20-22	0.0		Brown very fine to fine SAND, trace medium Sand, wet.	
				22-23.5	0.0		Brown to gray-black (salt & pepper) medium to coarse SAND, trace fine Sand and Rock fragments (granite).	
25	240						Refusal at 23.5' bgs.	
30	235							
35	230							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/16/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121614.3 **Easting:** 987331.9 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 259.4' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-C06 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				0-1	NA		Dark brown to black SILT, trace medium to coarse Sand, dry.	
							Brown SILT, trace wood, dry.	
		1	3.8	1-3	6.31		Black fine to medium SAND, little coarse Sand, trace subrounded fine Gravel.	Borehole backfilled with Bentonite to grade.
				3-5	5.98		Orange brown fine to medium SAND, trace subrounded fine Gravel, dry.	
5	255	2	4.0	5-7	7.32		Orange brown fine to medium SAND, trace coarse Sand.	
							Black SILT, trace red-brown Rock fragments.	
							Dark brown SILT.	
				7-9	4.21		Brown medium to coarse SAND, trace fine Sand.	
							Brown fine SAND, trace medium Sand.	
							Brown fine SAND, trace medium Sand. Wet at 9.0' bgs.	
10	250	3	4.0	9-11	5.56			
							Brown medium to coarse SAND, trace fine Sand.	
							Brown fine SAND, trace medium Sand.	
				11-13	6.38		Brown to tan fine to medium SAND, trace coarse Sand.	
		4	4.0	13-15	7.38			
15	245			15-17	5.21			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C06

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	5.21		Brown to tan fine to medium SAND, trace coarse Sand.	Borehole backfilled with Bentonite to grade.
		5	4.0	17-19	4.26			
	240							
20				19-21	3.11			
		6	2.5	21-23	4.02			
				23-24	NA			
	235							
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/6/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121614.6 **Easting:** 987351.8 **Casing Elevation:** NA **Borehole Depth:** 21.4' below grade **Surface Elevation:** 258.9' **Geologist:** Adam Baird	**Boring ID:** MSSB-C07 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				0-1	0.76		Dark brown to black fine to medium SAND, little coarse Sand and Coal.	
		1	3.0	1-3	0.87		Orange-brown fine to medium SAND.	Borehole backfilled with Bentonite to grade.
	255			3-5	0.88		Little coarse subrounded Sand, trace Gravel below 4.0' bgs.	
5		2	3.0	5-7	0.89		Wet below 6.0' bgs.	
				7-9	0.51			
	250							
10		3	3.3	9-11	0.5			
				11-13	0.5			
	245	4	4.0	13-15	0.71			
15				15-17	0.71		Light brown fine SAND.	

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C07

Borehole Depth: 21.4' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	0.69		Light brown fine SAND.	
							Brown medium to coarse subrounded SAND, little fine Sand.	Borehole backfilled with Bentonite to grade.
		5	4.0	17-19	0.53			
	240							
20				19-21	0.57			
		6	1.4					
				21-21.4	0.44			
							Refusal at 21.4' bgs.	
	235							
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/12/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121611.4 **Easting:** 987365.8 **Casing Elevation:** NA **Borehole Depth:** 22.7' below grade **Surface Elevation:** 258.8' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-C07E **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				0-1	2.79		Dark brown to black fine to medium SAND, some Cinders, Coal, and Ash, trace coarse Sand and Organics, dry.	
		1	3.9	1-3	2.79		Brown fine to medium SAND, dry.	Borehole backfilled with Bentonite to grade.
				3-5	3.27		Tan fine to medium SAND, little coarse Sand, dry.	
	255							
5		2	4.0	5-7	3.27		Brown fine to medium SAND, trace coarse Sand, trace subangular to subrounded fine Gravel, moist to wet.	
				7-9	3.69		Wet at 8.0' bgs.	
	250							
10		3	4.0	9-11	3.69			
				11-13	3.01		Tan very fine to fine SAND, wet.	
	245	4	3.8	13-15	3.01			
15				15-17	3.36			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C07E

Borehole Depth: 22.7' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	3.36		Tan very fine to fine SAND, wet.	Borehole backfilled with Bentonite to grade.
		5	4.0	17-19	3.36			
	240						Brown fine to medium SAND, trace coarse Sand, wet.	
20				19-21	3.36		Brown medium to coarse SAND, trace subangular to subrounded fine Gravel, wet.	
		6	2.7	21-22.7	3.36			
							Refusal at 22.7' bgs. Granite fragments in tip of spoon.	
	235							
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/8/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121637.9 **Easting:** 987343.9 **Casing Elevation:** NA **Borehole Depth:** 27.5' below grade **Surface Elevation:** 263.8' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-C07NW **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	265							
0								
				0-1	NA		Dark brown to black very fine to fine SAND, little medium Sand, trace Organics, Glass, Cinders, and Ash.	
							Brown fine to medium SAND, trace coarse Sand, moist.	
		1	3.9	1-3	NA		Tan to brown fine to medium SAND, trace coarse Sand.	Borehole backfilled with Bentonite to grade.
	260			3-5	NA		Reddish-brown fine to medium SAND, trace coarse Sand, trace subangular to subrounded fine Gravel.	
5		2	3.8	5-7	NA		*Brown color, moist below 5.1' bgs.*	
							Dark brown fine SAND and SILT, moist.	
				7-9	NA		Reddish-brown fine to medium SAND, trace coarse Sand, trace suangular to subrounded fine Gravel, moist to wet.	
	255							
10		3	4.0	9-11	NA			
				11-13	NA		Brown fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel, wet.	
	250	4	3.8	13-15	NA			
15				15-17	NA			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C07NW

Borehole Depth: 27.5' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	NA		Brown fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Gravel, wet.	Borehole backfilled with Bentonite to grade.
		5	4.0	17-19	NA		Tan to gray very fine to fine SAND, trace medium Sand, wet.	
	245						Brown to tan fine to medium SAND, trace coarse Sand, wet.	
20				19-21	NA		Brown to gray fine to medium SAND, trace coarse Sand, trace Rock fragments to 22.1' bgs.	
		6	4.0	21-23	NA		Wet at 22.1' bgs.	
	240			23-25	NA		Brown to gray medium to coarse SAND, trace Rock fragments, wet.	
25		7	3.5	25-27	NA			
				27-27.5	NA		Broken ROCK fragments, wet.	
							Refusal at 27.5' bgs. Rock fragments (Granite) in shoe.	
	235							
30								
	230							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/16/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121611.3 **Easting:** 987381 **Casing Elevation:** NA **Borehole Depth:** 19.8' below grade **Surface Elevation:** 258.6' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-C08 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				0-1	NA		Brown SILT and fine to medium SAND, trace Glass and Wood, dry.	
							Black fine to medium SAND, dry.	
		1	3.7	1-3	4.32		Tan to orange-brown fine to medium SAND, trace fine subrounded Gravel, dry.	Borehole backfilled with Bentonite to grade.
							Black fine to medium SAND, trace Cinders, dry.	
	255						Black fine to medium SAND.	
				3-5	5.11		Brown fine to medium SAND, trace coarse Sand, dry.	
5							Pulverized "salt and pepper" GRANITE.	
		2	4.0	5-7	6.37		Tan to orange-brown fine to medium SAND, little to trace coarse Sand.	
				7-9	6.21			
	250							
10		3	4.0	9-11	5.98			
				11-13	7.21		Tan to brown fine to medium SAND, trace coarse Sand, wet.	
	245	4	4.0	13-15	6.32			
15				15-17	6.59			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C08

Borehole Depth: 19.8' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
		5	3.8	15-17	6.59		Tan to brown fine to medium SAND, trace coarse Sand, wet.	Borehole backfilled with Bentonite to grade.
	240			17-19	5.71			
				19-19.8	4.39			
20							Refusal ay 19.8' bgs. Weathered Rock fragments in tip of spoon.	
	235							
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/8/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121593.2 **Easting:** 987449.2 **Casing Elevation:** NA **Borehole Depth:** 21' below grade **Surface Elevation:** 258.9' **Geologist:** Adam Baird	**Boring ID:** MSSB-C11 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				0-1	0.07		Brown SILT, little fine Sand.	
							Brown fine to medium SAND.	
		1	3.0	1-3	0.77			Borehole backfilled with Bentonite to grade.
							Black fine to medium SAND and COAL.	
	255			3-5	0.81			
5								
							Brown to orange fine to medium SAND, trace coarse subrounded Sand.	
		2	3.0	5-7	0.76			
							Brown well sorted fine SAND.	
				7-9	2.98			
	250							
							Brown fine to medium SAND, trace coarse subrounded Sand.	
10		3	4.0	9-11	2.11		Wet at 10' bgs.	
							Gray-brown fine SAND.	
				11-13	1.11			
	245	4	2.3	13-15	1.14			
15								
				15-17	1.30			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C11

Borehole Depth: 21' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	1.30		Gray-brown fine SAND.	Borehole backfilled with Bentonite to grade.
		5	3.7	17-19	0.99		Brown fine to medium SAND, little subrounded Gravel.	
	240						Gray fine SAND, some subangular Gravel.	
20		6	1.0	19-21	1.00			
							Refusal at 21' bgs.	
	235							
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/22/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121597.7 **Easting:** 987430.7 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 258.7' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-C11W **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				0-1	2.69		Dark brown SILT, some coarse Sand, trace Organics, moist.	
							Tan to brown fine SAND, little Silt, trace medium to coarse Sand, moist.	
							Dark gray fine SAND, trace Rock fragments.	
		1	3.9	1-3	2.69		Dark brown fine to medium SAND, little coarse Sand, trace Silt.	Borehole backfilled with Bentonite to grade.
	255			3-5	3.21			
5		2	4.0	5-7	3.21			
				7-9	3.75		Dark brown fine to medium SAND, little coarse Sand, trace Silt, wet.	
	250							
10		3	4.0	9-11	3.75			
				11-13	2.43			
	245	4	3.8	13-15	2.43			
							Brown fine SAND.	
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/8/04 **Drilling Company:** BBL **Driller's Name:** Darrin L. Martin **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121598.1 **Easting:** 987474.4 **Casing Elevation:** NA **Borehole Depth:** 23' below grade **Surface Elevation:** 263.3' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-C12N **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	265							
0							Black very fine SAND and SILT, some Organics.	
							Black fine to medium SAND, little coarse Sand, trace Glass, Wood, Coal, Cinders, Slag, Steel, moist.	
			3.8	NA	NA		Dark brown fine to medium SAND, trace coarse Sand, trace subangular to subrounded fine Gravel, moist.	Borehole backfilled with Bentonite to grade.
	260							
				3-5	NA		Brown to dark brown fine to medium SAND, trace coarse Sand, trace subangular to subrounded fine Gravel, moist to wet.	
5								
		1	4.0	5-7	NA			
				7-9	NA			
	255							
							Black very fine SAND and SILT, trace Organics and Wood.	
10		2	3.9	9-11	NA		Brown fine to medium SAND, little coarse Sand, trace subangular fine Gravel, wet.	
				11-13	NA			
	250							
		3	3.8	13-15	NA			
15								
				15-17	NA			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C12N

Borehole Depth: 23' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	NA		Reddish-brown fine to medium SAND, trace coarse Sand, trace subangular fine Gravel, wet.	
	245	4	4.0	17-19	NA			Borehole backfilled with Bentonite to grade.
20				19-21	NA			
		5	3.0	21-23	NA			
	240						Refusal at 23' bgs. Granite fragments in tip of spoon	
25								
	235							
30								
	230							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/13/04 **Drilling Company:** BBL **Driller's Name:** Darrin L. Martin **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121592.3 **Easting:** 987499.4 **Casing Elevation:** NA **Borehole Depth:** 19.9' below grade **Surface Elevation:** 263.5' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-C13N **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	265							
0				0-1	3.56		Black fine SAND, trace medium Sand and Silt, moist.	
		1	3.7	1-3	3.56		Brown to tan medium SAND, little fine Sand, trace Rock fragments, dry.	Borehole backfilled with Bentonite to grade.
	260			3-5	3.42		Brown fine to medium SAND, trace coarse Sand, trace subangular fine Gravel, dry.	
5		2	4.0	5-7	3.42			
				7-9	3.71		Black SILT, little very fine SAND, trace Organics and Coal.	
	255						Dark brown fine SAND, little white medium to coarse Sand, moist.	
10		3	3.9	9-11	3.71		Reddish-brown fine SAND, little medium Sand, moist.	
				11-13	3.71		Brown to dark brown fine SAND, little medium Sand, moist to wet.	
	250	4	4.0	13-15	3.53			
15				15-17	3.53			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C13N

Borehole Depth: 19.9' below grade

DEPTH / ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
			15-17	3.39		Brown fine to medium SAND, little coarse Sand, trace subangular to subrounded fine Quartz, wet.	
245	5	4.0	17-19	3.39			Borehole backfilled with Bentonite to grade.
			19-19.9	3.39		Gray coarse SAND, little Rock fragments (Granite), trace fine to medium Sand, wet.	
20						Refusal at 19.9' bgs. Granite fragments in tip of spoon.	
240							
25							
235							
30							
230							
35							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/12/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121584.7 **Easting:** 987523.8 **Casing Elevation:** NA **Borehole Depth:** 20' below grade **Surface Elevation:** 264' **Geologist:** Adam Baird	**Boring ID:** MSSB-C14 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	265							
0				0-1	NA		Brown SILT, little medium Sand, trace coarse subrounded Sand and Roots.	
		1	4.0	1-3	1.34		Light brown fine to medium SAND, trace coarse subrounded Sand.	
							Brown to black fine to medium SAND.	Borehole backfilled with Bentonite to grade.
							Pulverized "salt and pepper" GRANITE.	
							Orange-brown fine to medium SAND, trace Roots.	
	260			3-5	1.56		Orange-brown fine to medium SAND, little coarse subrounded Sand, trace Silt.	
5		2	3.0	5-7	1.53			
				7-9	2.54		Brown SILT, some fine to medium Sand, trace Roots and Gravel.	
	255							
10		3	3.6	9-11	2.42		Light brown-orange fine to medium SAND. Wet at 11' bgs.	
				11-13	3.20		Orange-brown fine to medium SAND, some coarse Sand and subrounded Gravel.	
	250	4	4.0	13-15	4.26		Light Brown fine to medium SAND, trace coarse subrounded Sand.	
15				15-17	2.62			

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C14

Borehole Depth: 20' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	2.62		Light Brown fine to medium SAND, trace coarse subrounded Sand.	
		5	4.0	17-19	2.43			Borehole backfilled with Bentonite to grade.
	245			19-20	4.75			
20							Refusal at 20' bgs. Weathered Granite in shoe.	
	240							
25								
	235							
30								
	230							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/6/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121576.2 **Easting:** 987548.8 **Casing Elevation:** NA **Borehole Depth:** 20.4' below grade **Surface Elevation:** 264.1' **Geologist:** Adam Baird	**Boring ID:** MSSB-C15 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	265							
0								
				0-1	0.0		Dark brown fine to medium SAND, trace subrounded Gravel.	
							Orange fine to medium SAND, little subrounded coarse Sand.	
		1	2.5	1-3	0.44		Orange-Brown fine to medium SAND, little subrounded coarse Sand.	Borehole backfilled with Bentonite to grade.
	260			3-5	0.66			
5								
		2	3.0	5-7	0.65		Dark brown fine to medium SAND, little Silt, trace Roots.	
				7-9	0.59		Orange brown fine to medium Sand, little Silt, trace Gravel.	
	255							
10		3	4.0	9-11	1.01		Light brown fine SAND.	
				11-13	1.13		Wet at 12' bgs. Orange Brown fine to medium SAND, little coarse subrounded SAND.	
	250	4	4.0	13-15	0.69		Light brown fine SAND.	
15								
				15-17	0.71			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Sample for VOCs/SVOCs from 10'-12' bgs.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C15

Borehole Depth: 20.4' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	0.71		Light brown fine SAND.	
		5	4.0	17-19	0.77		Light brown fine to medium SAND, little subrounded coarse Sand.	Borehole backfilled with Bentonite to grade.
	245			19-20.4	0.18			
20		6	0.4				Gray-brown fine to medium SAND, little subrounded coarse Sand.	
	240							
25								
	235							
30								
	230							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Sample for VOCs/SVOCs from 10'-12' bgs.

Date Start/Finish: 1/7/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121565.6 **Easting:** 987596.9 **Casing Elevation:** NA **Borehole Depth:** 20.7' below grade **Surface Elevation:** 264' **Geologist:** Adam Baird	**Boring ID:** MSSB-C17 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	265							
0		NA	NA	NA	NA		GRAVEL.	
		1	2.6	0-1	1.16		Brown fine to medium SAND, trace subangular Gravel.	
				1-3	1.11		Orange-brown fine to medium SAND, trace coarse subangular Sand.	Borehole backfilled with Bentonite to grade.
	260			3-5	1.07			
5		2	3.0	5-7	1.03		Dark orange-brown fine to medium SAND, little Silt, trace coarse subangular Sand.	
				7-9	1.69			
	255	3	4.0	9-11	1.71		Orange-brown fine to medium SAND, little coarse subangular Sand. Wet at 11' bgs.	
10				11-13	1.57		Brown fine to medium SAND, little coarse subangular Sand.	
	250	4	3.5	13-15	1.33			
15				15-17	0.68			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C17

Borehole Depth: 20.7' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
		4	3.5				Brown fine to medium SAND, little coarse subangular Sand.	
		5	2.0	15-17	0.68		Brown-gray fine to medium SAND.	
				17-19	0.55		Brown-gray fine to medium SAND, little coarse subangular Sand.	Borehole backfilled with Bentonite to grade.
20	245			19-20.2	0.11		Gray fine to medium SAND, little coarse subangular Sand and Gravel.	
		6	0.2					
25	240							
30	235							
35	230							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/22/04 **Drilling Company:** BBL **Driller's Name:** David Grills **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121551.6 **Easting:** 987593.1 **Casing Elevation:** NA **Borehole Depth:** 18.5' below grade **Surface Elevation:** 263.2' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-C17S **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	265							
0				0-1	2.56		Dark brown fine SAND, little Silt, trace medium Sand and Organics, moist.	
		1	3.6	1-3	2.56		Tan to brown fine to medium SAND, trace coarse Sand and fine subangular Gravel, dry.	Borehole backfilled with Bentonite to grade.
	260			3-5	3.21		Brown fine to medium SAND, trace coarse Sand and fine to medium Gravel, moist.	
5		2	3.8	5-7	3.21		Dark brown to reddish-brown SILT, little fine to medium Sand, trace subangular fine Gravel, moist.	
	255			7-9	4.00		Brown fine to medium SAND, trace coarse Sand and subangular fine Gravel, moist to wet.	
10		3	4.0	9-11	4.00			
				11-13	4.00		Wet at 12' bgs.	
	250	4	4.0	13-15	3.27			
15				15-17	3.27			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C17S

Borehole Depth: 18.5' below grade

DEPTH / ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (pprn)	Geologic Column	Stratigraphic Description	Boring Construction
245	5	2.5	15-17	3.06		Brown fine to medium SAND, trace coarse Sand and subangular fine Gravel, moist to wet.	Borehole backfilled with Bentonite to grade.
			17-18.5	3.06			
20						Refusal at 18.5' bgs. Rock Fragments in tip of spoon.	
240							
25							
235							
30							
230							
35							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/7/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121550.6 **Easting:** 487657.3 **Casing Elevation:** NA **Borehole Depth:** 21' below grade **Surface Elevation:** 264.2' **Geologist:** Adam Baird	**Boring ID:** MSSB-C19 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	265							
0		NA	NA	CAP	NA		GRAVEL.	
				0-1	0.0		Dark brown SILT, little fine Sand, trace Roots.	
		1	2.3	1-3	0.0		Orange-brown fine to medium Sand, trace subrounded coarse Sand.	Borehole backfilled with Bentonite to grade.
	260			3-5	0.11			
5		2	3.0	5-7	0.81			
				7-9	1.73			
	255							
10		3	3.3	9-11	2.97		Light brown fine to medium SAND, trace coarse Sand and subrounded Gravel. Wet at 11.0' bgs.	
				11-13	2.18			
	250	4	3.1	13-15	1.17			
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-C19

Borehole Depth: 21' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
		4	3.1				Light brown fine to medium SAND, trace coarse Sand and subrounded Gravel.	
				15-17	0.07			
				17-19	0.03			Borehole backfilled with Bentonite to grade.
		5	3.8					
	245						Gray fine to medium SAND, little subangular Gravel.	
20				19-20	NA			
		6	0.2					
							Refusal at 21' bgs.	
	240							
25								
	235							
30								
	230							
35								

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Date Start/Finish: 7/22/04 **Drilling Company:** BBL **Driller's Name:** Dave Grills **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121592.2 **Easting:** 987351.8 **Casing Elevation:** NA **Borehole Depth:** 21.5' below grade **Surface Elevation:** 258.4' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-D07SE **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				0-1	2.36		Dark brown SILT, little fine to medium Sand, trace subangular fine Gravel.	
							Brown to tan fine to medium SAND, some coarse Sand, trace subangular fine Gravel.	
		1	3.9	1-3	2.36		Brown fine to medium SAND, trace coarse Sand and subangular fine Gravel, moist.	Borehole backfilled with Bentonite to grade.
	255							
				3-5	3.79			
5								
		2	4	5-7	3.79			
				7-9	3.21		Brown fine SAND, little medium Sand, trace Silt, moist to wet.	
	250							
10		3	3.8	9-11	3.21			
				11-13	3.21		Brown fine to medium SAND, trace coarse Sand, moist to wet.	
	245							
		4	4	13-15	3.11			
15								
				15-17	3.11			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-D07SE

Borehole Depth: 21.5' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	2.97		Brown fine to medium SAND, trace coarse Sand, wet.	
	240	5	4	17-19	2.97			Borehole backfilled with Bentonite to grade.
20				19-21	3.02		Brown fine to medium SAND, trace coarse Sand, wet.	
		6	1.5	Ref	NA		GRANITE fragments in shoe.	
							Refusal at 21.5' bgs.	
	235							
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal.

Date Start/Finish: 7/1/04 **Drilling Company:** BBL **Driller's Name:** Darrin Martin **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121597.8 **Easting:** 987373.2 **Casing Elevation:** NA **Borehole Depth:** 10.5' below grade **Surface Elevation:** 258.8' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-D08 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				0-1	3.28		Dark brown fine to medium SAND, trace subrounded fine Gravel, moist.	
		1	4.0	1-3	3.28			Borehole backfilled with Bentonite to grade.
	255			3-5	3.41		Brown fine to medium SAND, trace coarse Sand and subrounded fine Gravel, moist to wet.	
5		2	3.7	5-7	3.41			
				7-9	3.39		Wet below 8.0' bgs.	
	250	3	2.5					
10				9-10.5	3.39			
	245							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Background FID measurements were between 3.69 and 4.13 ppm.

Date Start/Finish: 7/21/04 **Drilling Company:** BBL **Driller's Name:** David Grills **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121591.6 **Easting:** 987397.3 **Casing Elevation:** NA **Borehole Depth:** 10' below grade **Surface Elevation:** 259.4' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-D09 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				0-1	3.71		Dark brown SILT, little fine Sand, trace Organics, moist.	
							Tan to brown fine SAND, trace coarse Sand, dry.	
							Dark brown SILT, little fine Sand, trace Organics.	
		1	4.0	1-3	3.71		Tan to brown fine SAND, trace coarse Sand, dry.	Borehole backfilled with Bentonite to grade.
							Dark brown SILT, little fine Sand, trace medium Sand.	
				3-5	3.35			
	255							
5								
		2	3.8	5-7	3.35			
				7-9	3.56			
		3	2.1					
	250			9-10	3.56			
10								
	245							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/6/04 **Drilling Company:** BBL **Driller's Name:** Darrin Martin **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121578.6 **Easting:** 987445.3 **Casing Elevation:** NA **Borehole Depth:** 20' below grade **Surface Elevation:** 258.9' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-D11 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				0-1	2.11		Dark brown SILT and very fine SAND, trace Organics, moist.	
							Brown fine SAND, little medium Sand, trace Glass.	
		1	3.8	1-3	2.11		Dark brown-black very fine SAND and SILT, trace Glass, Wood, and Rock fragments, moist.	Borehole backfilled with Bentonite to grade.
	255			3-5	1.93		Reddish-brown fine to medium SAND, trace coarse Sand, trace subangular fine Gravel, moist.	
5							Brown-tan fine SAND, moist.	
		2	4.0	5-7	1.93		Brown medium SAND, little fine Sand, moist to wet.	
				7-9	1.76		Brown-tan fine to medium SAND, little coarse Sand, wet.	
	250							
10		3	3.9	9-11	1.76			
				11-13	2.01			
	245	4	4.0	13-15	2.01			
15							Tan fine SAND, trace medium Sand, wet.	
				15-17	2.01			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-D11

Borehole Depth: 20' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	1.35		Brown fine to medium SAND, little coarse Sand, trace Rock fragments.	
		5	4.0	17-19	1.35			Borehole backfilled with Bentonite to grade.
	240						Broken Rock fragments.	
				19-20	NA			
20							Refusal at 20' bgs.	
	235							
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 2/13/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121566.4 **Easting:** 987493.7 **Casing Elevation:** NA **Borehole Depth:** 22' below grade **Surface Elevation:** 260.1' **Geologist:** Adam Baird	**Boring ID:** MSSB-D13 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260							
				0-1	0.59		Brown SILT, little fine Sand, trace Roots.	
							Light brown fine to medium SAND, trace Silt.	
		1	3.2	1-3	1.76		Brown fine SAND, trace Silt.	Borehole backfilled with Bentonite to grade.
				3-5	3.64		Dark brown fine to medium SAND	
5	255						Black fine SAND, some Silt and highly degraded Organics, strong odor.	
		2	4.0	5-7	38.88			
							Orange-brown fine to medium SAND.	
				7-9	4.08		Orange-brown fine to medium SAND, some coarse subrounded Sand.	
10	250	3	4.0	9-11	5.56			
							Wet at 11' bgs.	
				11-13	4.3			
							Brown fine to medium SAND.	
		4	3.0	13-15	6.13			
15	245							
				15-17	5.15			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-D13

Borehole Depth: 22' below grade

DEPTH / ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
			15-17	5.15		Brown fine to medium SAND.	
	5	3.0	17-19	5.47			Borehole backfilled with Bentonite to grade.
20 240			19-21	7.84		Gray fine SAND, some weathered Rock.	
	6	2.0	21-22	8.09			
						Refusal at 22' bgs. Weathered Rock in shoe.	
25 235							
30 230							
35 225							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/16/04 **Drilling Company:** BBL **Driller's Name:** Darrin Martin **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121559.4 **Easting:** 987518.5 **Casing Elevation:** NA **Borehole Depth:** 16' below grade **Surface Elevation:** 260.2' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-D13E **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260						Brown SILT, trace fine Sand and Organics.	
				0-1	2.79		Tan fine to medium SAND, trace coarse Sand and Glass.	
							Brown SILT, hard, dry.	
		1	3.9	1-3	2.79		Black SILT and very fine SAND, little medium Sand, trace Ash, Cinders, and Glass, odor from 3.4' - 3.9' bgs.	Borehole backfilled with Bentonite to grade.
				3-5	6.38		Brown fine to medium SAND, moist.	
5	255	2	3.7	5-7	6.38		Black very fine SAND and SILT, odor, wet.	
							Reddish-brown, fine to medium SAND, wet.	
				7-9	2.15		Brown fine to medium SAND, little coarse Sand, wet.	
				9-11	2.15		Tan fine SAND, wet.	
10	250	3	3.8				Brown fine to medium SAND, trace coarse Sand, and subangular to subrounded fine Gravel.	
				11-13	2.37		Pulverized "salt & pepper" GRANITE.	
		4	4	13-15	2.37		Brown to tan fine SAND, some medium Sand.	
15	245			15-16	2.37		Brown fine to medium SAND, trace coarse Sand. Refusal at 16' bgs. Granite fragments in lip of spoon.	

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 8/13/04 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121595 **Easting:** 987248.8 **Casing Elevation:** NA **Borehole Depth:** 24' below grade **Surface Elevation:** 258.1' **Geologist:** Adam Baird	**Boring ID:** MSSB-E01 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
				0-1	0.0		ASPHALT Brown to black SILT, little fine to medium Sand, trace rounded Gravel.	
							Gray-brown fine to medium SAND, some Silt.	
		1	3.1	1-3	0.01		Orange-brown fine to medium SAND, some Silt, trace rounded Gravel.	Borehole backfilled with Bentonite to grade.
	255							
				3-5	0.27			
5							Orange-brown fine to medium SAND, little subrounded coarse Sand. Wet at 5' bgs.	
		2	3.7	5-7	0.22			
				7-9	0.26			
	250						Brown fine to medium SAND, little subrounded coarse Sand.	
10		3	3.9	9-11	0.11			
				11-13	0.14			
	245						Brown fine to medium SAND.	
		4	3.9	13-15	0.10			
15								
				15-17	0.08			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-E01

Borehole Depth: 24' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	0.08		Brown fine to medium SAND.	
	240	5	3.8	17-19	0.09			Borehole backfilled with Bentonite to grade.
20				19-21	0.01			
		6	2.3	21-23	0.03			
	235			23-24	0.09			
							Refusal at 24.1' bgs.	
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 12/23/03 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121610 **Easting:** 987195 **Casing Elevation:** NA **Borehole Depth:** 21.4' below grade **Surface Elevation:** 256.1' **Geologist:** Scott Sanders	**Boring ID:** MSSB-E03 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0								
	255			0-1	0.0		ASPHALT Gray coarse SAND and subangular GRAVEL.	
		1	3.2	1-3	0.0		Dark brown fine to medium SAND, coarse Sand and subrounded Gravel. Black subangular GRAVEL (shale), some coarse Sand. Dark brown fine to medium SAND, coarse Sand and subrounded Gravel.	Borehole backfilled with Bentonite to grade.
				3-5	0.0		Orange-brown fine to medium SAND, some coarse Sand and subrounded Gravel. Brown fine to medium SAND, some coarse Sand and rounded Gravel.	
5	250	2	3.3	5-7	0.0			
				7-9	0.20		Brown medium to coarse SAND, some subrounded Gravel, moist.	
10	245	3	3.3	9-11	0.05			
				11-13	0.12			
		4	3.1	13-15	0.15		Gray-brown fine SAND, little medium to coarse Sand, trace subrounded Gravel, slightly moist.	
15				15-17	0.04			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-E03

Borehole Depth: 21.4' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	240			15-17	0.04		Gray-brown fine SAND, some medium Sand.	
		5	2.9	17-19	0.0		Orange-brown fine SAND, little medium Sand.	Borehole backfilled with Bentonite to grade.
							Light gray medium to coarse SAND, some rounded Gravel.	
20		6	1.4	19-21	0.0		Light gray fine to medium hard packed SAND, some coarse Sand and rounded Gravel.	
	235			21-21.4	0.0			
							Refusal at 21.4' bgs.	
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 12/04/03, 12/11/03 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121592.8 **Easting:** 987294.4 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 259.1' **Geologist:** Adam Baird	**Boring ID:** MSSB-E05 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				CAP	NA		Cap approximately 2' thick.	
		1	2.4	0-1	0.0		Dark brown medium to coarse SAND, trace Cinders.	Borehole backfilled with Bentonite to grade.
				1-3	0.0		Dark brown-black medium to coarse SAND, little Coal, trace Cinders, moist.	
5	255	2	2.4	3-5	0.0		Orange-brown medium to coarse SAND, trace Gravel and Coal, moist.	
				5-7	0.0		Light brown fine to medium SAND, moist.	
10	250	3	3.8	7-9	0.0		Refusal at 10' bgs (1st attempt). Brown medium to fine SAND, trace coarse Sand, moist.	
				9-11	0.0		Brown fine to medium SAND, little coarse Sand.	
		4	0.8	11-13	0.0		Refusal at 14' bgs (2nd attempt).	
15	245	5	1.0				Gray-brown tightly packed fine SAND, trace Gravel. Refusal at 15' bgs (3rd attempt).	

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/21/04 **Drilling Company:** BBL **Driller's Name:** David Grills **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121588.7 **Easting:** 987310.6 **Casing Elevation:** NA **Borehole Depth:** 8.2' below grade **Surface Elevation:** 259.1' **Geologist:** Micheal Arlauckas	**Boring ID:** MSSB-E05E **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0		NA	NA	CAP	NA		*Cap approximately 1.2' thick. Removed prior to sampling.*	
		1	3.8	0-1	3.26		Dark brown to black SILT, trace fine Sand and Organics, moist.	Borehole backfilled with Bentonite to grade.
							Brown fine SAND, some medium to coarse Sand, trace subangular fine Gravel, dry.	
				1-3	3.26		Brown fine to medium SAND, little coarse Sand, trace subangular fine Gravel, dry.	
	255							
5				3-5	3.26		Brown fine to medium SAND, little coarse Sand, trace subangular fine Gravel, odor (sweet smell), moist.	
		2	3.1	5-7	3.15			
							Boring terminated at 8.2' bgs.	
	250							
10								
	245							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/21/04 **Drilling Company:** BBL **Driller's Name:** David Grills **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121597.1 **Easting:** 987278.5 **Casing Elevation:** NA **Borehole Depth:** 8.2' below grade **Surface Elevation:** 258.4' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-E05W **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0		NA	NA	CAP	NA		Cap approximately 1.2' thick. Removed prior to sampling.	
		1	3.8	0-1	2.81		Dark brown to black coarse SAND, little fine to medium Gravel, moist.	Borehole backfilled with Bentonite to grade.
	255			1-3	2.81		Brown fine to medium SAND, little coarse Sand, trace fine subangular Gravel.	
							Dark brown to black coarse SAND, little fine to medium subangular Gravel, moist.	
5				3-5	2.81			
		2	3.1	5-7	3.06			
	250						Boring terminated at 8.2' bgs.	
10								
	245							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 12/9/03 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121580.2 **Easting:** 987342.9 **Casing Elevation:** NA **Borehole Depth:** 20.4' below grade **Surface Elevation:** 258.8' **Geologist:** Adam Baird	**Boring ID:** MSSB-E07 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				0-1	0.0		Dark brown fine to medium SAND, some Silt, trace Roots.	
		1	3.0	1-3	0.0		Light brown fine to medium SAND, trace coarse Sand.	Borehole backfilled with Bentonite to grade.
	255			3-5	0.0		Gray-brown fine to medium SAND, some coarse Sand, trace Gravel, moist.	
5		2	3.3	5-7	0.0			
				7-9	0.0		Wet at 7.3' bgs.	
	250							
10		3	3.0	9-11	0.0		Light brown fine SAND.	
				11-13	0.0			
	245	4	3.8	13-15	0.0			
15				15-17	0.0			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-E07

Borehole Depth: 20.4' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	0.0		Light brown fine SAND.	
		5	3.8	17-19	0.0			Borehole backfilled with Bentonite to grade.
	240						Orange-brown fine to medium SAND, some coarse Sand.	
20				19-20.4	NA			
		6	0.4					
							Refusal at 20.4' bgs.	
	235							
25								
	230							
30								
	225							
35								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/21/04 **Drilling Company:** BBL **Driller's Name:** David Grills **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121584.6 **Easting:** 987326.4 **Casing Elevation:** NA **Borehole Depth:** 7' below grade **Surface Elevation:** 258.9' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-E07W **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0								
		1	4.0	0-1	2.89		Dark brown SILT, little coarse Sand, trace subangular fine Gravel, moist to dry.	
				1-3	2.89			Borehole backfilled with Bentonite to grade.
	255			3-5	2.89		Light brown to brown fine to medium SAND, little coarse Sand, trace fine Gravel.	
5		2	3.0	5-7	3.02		Brown medium to coarse SAND, trace fine Gravel, moist.	
	250							
10								
	245							
15								

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 12/09/03 - 12/11/03 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121567.6 **Easting:** 987391.3 **Casing Elevation:** NA **Borehole Depth:** 21' below grade **Surface Elevation:** 259.8' **Geologist:** Adam Baird	**Boring ID:** MSSB-E09 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
	260							
0				0-1	0.0		Brown SILT, some fine to medium Sand, trace Roots and Gravel.	
		1	3.7	1-3	0.0		Orange-brown-gray fine to medium SAND, little coarse Sand.	Borehole backfilled with Bentonite to grade.
				3-5	0.0		Brown fine to medium SAND, little coarse Sand and fine Gravel, wet.	
5	255	2	3.6	5-7	0.0			
				7-9	0.0		Brown fine SAND, little medium Sand, wet.	
10	250	3	3.8	9-11	0.0			
				11-13	0.0		Brown fine SAND, little medium Sand, trace coarse Sand.	
		4	4.0	13-15	0.0			
15	245			15-17	0.0			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-E09

Borehole Depth: 21' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	0.0		Brown fine to medium SAND, trace coarse Sand and Gravel.	
		5	3.8	17-19	0.0			Borehole backfilled with Bentonite to grade.
20	240			19-21	0.0			
		6	1.0				Brown fine to medium SAND, some Gravel, trace coarse Sand.	
							Refusal after 3 attempts at 21' bgs.	
25	235							
30	230							
35	225							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 7/7/04 **Drilling Company:** BBL **Driller's Name:** Darrin Martin **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121548.6 **Easting:** 987463.3 **Casing Elevation:** NA **Borehole Depth:** 22.5' below grade **Surface Elevation:** 259.8' **Geologist:** Michael Arlauckas	**Boring ID:** MSSB-E12 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260							
		1	3.9	0-4	NA		Black ASHPHALT, dry. Dark gray crushed Stone, dry. Dark brown fine SAND, some Silt, trace Rock fragments. Brown fine to medium SAND, moist. Black SILT and very fine SAND, trace Wood, Glass, and Organics, moist.	Borehole backfilled with Bentonite to grade.
5	255	2	4.0	4-6	NA		Tan fine to medium SAND, trace coarse Sand.	
				6-8	NA		Brown medium SAND, little fine Sand, moist to wet.	
10	250	3	3.7	8-10	NA		Brown fine to medium SAND, trace coarse sand and subrounded fine Gravel, wet.	
				10-12	NA			
		4	4.0	12-14	NA			
15	245			14-16	NA			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-E12

Borehole Depth: 22.5' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
		5	4.0	16-18	NA		Brown fine to medium SAND, trace coarse Sand and subrounded fine Gravel, wet.	Borehole backfilled with Bentonite to grade.
				18-20	NA			
20	240	6	2.5	20-22	NA		Brown fine to medium SAND, little coarse Sand.	
				22-22.5	NA			
							Refusal at 22.5' bgs. Granite fragments in tip of spoon.	
25	235							
30	230							
35	225							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 12/17/03 - 12/18/03 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121542.3 **Easting:** 987487.8 **Casing Elevation:** NA **Borehole Depth:** 21.3' below grade **Surface Elevation:** 260' **Geologist:** Adam Baird	**Boring ID:** MSSB-E13 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	260							
		1	3.0	0-1	0.0		ASPHALT.	
							Brown-gray fine to medium SAND, little coarse Sand and angular Gravel.	
				1-3	0.17		Brown-gray fine SAND, some tightly packed Silt.	
							Red BRICK.	
							Brown-black fine to medium SAND, little Silt, trace coarse angular Sand.	Borehole backfilled with Bentonite to grade.
				3-5	0.16		Dark brown SILT, some fine Sand, trace coarse angular Sand.	
5	255	2	3.6	5-7	0.22		Orange-brown fine to medium SAND.	
							Brown fine SAND.	
				7-9	0.11		Dark brown SILT, some fine Sand, slight odor, wet at 8' bgs.	
							Brown fine to medium SAND, little coarse subrounded Sand.	
10	250	3	3.5	9-11	0.17			
				11-13	0.09		Brown-light brown fine to medium SAND, little coarse subrounded Sand.	
		4	4.0	13-15	0.15			
15	245			15-17	0.20			

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Boring ID: MSSB-E13

Borehole Depth: 21.3' below grade

DEPTH	ELEVATION	Sample Run Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
				15-17	0.20		Brown-light brown fine to medium SAND, little coarse subrounded Sand.	
		5	3.8	17-19	0.13		Light brown fine SAND.	Borehole backfilled with Bentonite to grade.
20	240			19-21	0.10		Light brown fine SAND, little medium Sand, trace coarse angular Sand.	
		6	1.3	21-21.3	0.14		Brown-gray coarse angular SAND, little medium Sand.	
							Refusal at 21.3' bgs.	
25	235							
30	230							
35	225							

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 12/17/03 **Drilling Company:** BBL **Driller's Name:** Jason Gutkowski **Drilling Method:** Direct Push **Bit Size:** NA **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sampling Method:** 4' Macrocore	**Northing:** 121539.4 **Easting:** 987538.8 **Casing Elevation:** NA **Borehole Depth:** 13.6' below grade **Surface Elevation:** 260.1' **Geologist:** Adam Baird	**Boring ID:** MSSB-E15 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample Number	Recovery (feet)	Sample Interval	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
0	260						
				0-1	0.0		ASPHALT cap approximately 2" thick. Brown SILT, some fine Sand, trace Roots.
		1	3.0	1-3	0.04		Brown fine SAND, little Silt, trace Gravel and Roots.
				3-5	0.12		Brown-black SILT and fine SAND, trace Roots.
5	255	2	3.5	5-7	0.38		Brown-orange fine to medium SAND, little Silt, trace coarse subangular Sand, wet at 7' bgs.
				7-9	0.27		
10	250	3	3.0	9-11	0.20		Brown to light brown fine to medium SAND, little coarse subangular Sand.
				11-13	0.21		
		4	1.6	13-13.6	0.18		Refusal at 13.6' bgs.
15	245						

Boring Construction

Borehole backfilled with Bentonite to grade.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Appendix I

Appendix I

Test Pit Logs and Geophysical Data

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Draft for EPA Review

Test Pit Logs

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Draft for EPA Review

Elm Street Area

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Date Start/Finish: 5/18/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** John Smart **Equipment:** 310SE John Deere Backhoe	**Northing:** 122364.1 **Easting:** 987332.0 **Ground Surface Elevation:** 254.7' **Test Pit Depth:** 10.0' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** ESTP-1A **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
	255					
0					Liner at 1.5' bgs. Cap approximately 1.5' thick.	
					Medium brown medium SAND, trace Gravel, loose, moist.	
5	250	0-10.0	NA			
					Little Boulders and Cobbles, trace fine to coarse Gravel below 6.5'. One large piece of quarried Granite below 6.5'.	Boulders up to 3' in diameter. Quarried granite block approximately 4' x 1' x 2'. Extent of Backhoe at 10' bgs. Test pit backfilled and capped with clean cap material over new geotextile liner.
10	245					
15	240					

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 5/18/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** John Smart **Equipment:** 310SE John Deere Backhoe	**Northing:** 122379.7 **Easting:** 987338.5 **Ground Surface Elevation:** 253.7' **Test Pit Depth:** 8.8' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** ESTP-1B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
	255					
0				× ×	Liner at 0.3' bgs. Cap approximately 0.3' thick.	
					Brown fine to medium SAND, trace Gravel, boulders, trace brick.	Boulders up to 3' in diameter.
	250					ESTP-1C was completed to 3' bgs where 3' diameter boulders were present.
		0-8.8	NA			
5					Very large rectangular quarried granite block at 5-7' on west side of pit.	Quarried granite block approximately 4' x 1' x 2'.
						Test pit terminated at 8.8' bgs. Test pit backfilled and capped with clean cap material over new geotextile liner.
	245					
10						
	240					
15						

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 5/18/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** John Smart **Equipment:** 310SE John Deere Backhoe	**Northing:** 122540.3 **Easting:** 987226.4 **Ground Surface Elevation:** 247.1' **Test Pit Depth:** 4.0' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** ESTP-2A/2B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH / ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
250					
0				Cap approximately 1' thick.	
				Dark brown fine to medium SAND, some Boulders, cobbles, quarried granite block, trace brick.	Quarried granite blocks approximately 4' x 3' x 2'.
245	0-4.0	1.0/ 0.2			Test pits terminated at 4' bgs due to presence of large quarried granite block and proximity to monitoring wells. Test pits backfilled and capped with clean cap material over new geotextile liner.
5					
240					
10					
235					
15					

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 5/18/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** John Smart **Equipment:** 310SE John Deere Backhoe	**Northing:** 122511.5 **Easting:** 987233.1 **Ground Surface Elevation:** 247.2' **Test Pit Depth:** 5.0' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** ESTP-2C **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH / ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
250					
0				Cap approximately 1' thick.	
				Dark brown fine to medium SAND, some Cobbles, boulders, quarried granite, trace brick, trace metal object [mixer propellor].	Quarried granite blocks approximately 4' x 3' x 2'.
245	0-6.0	NA			
5				Wood stump and trace wood fragments at 6' bgs.	Test pit terminated at 6' bgs. Test pit backfilled and capped with clean cap material over new geotextile liner.
240					
10					
235					
15					

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 5/18/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** *John Smart* **Equipment:** 310SE John Deere Backhoe	**Northing:** 122435.6 **Easting:** 987330.2 **Ground Surface Elevation:** 250.9' **Test Pit Depth:** 4.0' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** ESTP-3A **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	250	0-4.0	20.4		Cap approximately 1.0' thick.	
					Fine to medium SAND, some Gravel, trace cobbles.	
					Gray paint-stained soils, partially dry and friable and partially soft and plastic (1.5'-2' bgs).	Test pit terminated at 4' bgs. Test pit backfilled and capped with clean cap material over new geotextile liner.
					Fine to medium SAND, some Gravel, trace cobbles.	Drum A: Appeared to have a metal rim and top (55 gallon drum). May have fiberboard walls. Clear yellow resin (FID: 2400 ppm) material may have been part of drum content. Also adjacent to drum was a pocket of light yellow paint-like material (0.4 ppm).
			2400 0.4		Top of Drum A at approximately 3' bgs.	
5	245					
10	240					
15	235					

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 5/19/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** John Smart **Equipment:** 310SE John Deere Backhoe	**Northing:** 122430.5 **Easting:** 987318.9 **Ground Surface Elevation:** 251.0' **Test Pit Depth:** 4.0' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** ESTP-3B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	250	0-4.0	17.0		Cap approximately 1.0' thick.	
					Pink paint stained soil (1.0-1.5' bgs).	
					Fine to medium SAND, some Gravel, trace cobbles.	Test pit terminated at 4' bgs. Test pit backfilled and capped with clean cap material over new geotextile liner.
			0.5		Top of Drum B at approximately 3' bgs.	Drum B: Metal drum (55 gallons or less). Removed piece of rotted drum while excavating. Inner contents: red paint-like material and black paint-like material (0.5 ppm), trace soft white clay-like consistency (separated paint). Replaced metal with remainder of drum intact.
5	245					
10	240					
15						

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 5/19/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** John Smart **Equipment:** 310SE John Deere Backhoe	**Northing:** 122338.8 **Easting:** 987557.2 **Ground Surface Elevation:** 261.2' **Test Pit Depth:** 8.5' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** ESTP-4 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
0	260				Cap approximately 2.5' thick.	
		0-8.5			Light brown fine to medium SAND, trace fine to coarse Gravel, trace brick, very loose, moist.	
5	255		2.0		Lense of black-stained soil, very cohesive, no odor (5-5.5' bgs).	
					Light brown fine to medium SAND, trace Silt and fine to coarse Gravel, trace brick, very loose, moist.	Test pit terminated at 8.5' bgs. Test pit backfilled and capped with clean cap material over new geotextile liner.
10	250					
15						

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 5/19/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** John Smart **Equipment:** 310SE John Deere Backhoe	**Northing:** 122324.1 **Easting:** 987454.3 **Ground Surface Elevation:** 259.3' **Test Pit Depth:** 8.5' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** ESTP-5 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
	260					
0					Fabric at 1.5' bgs. Cap approximately 1.5' thick.	
					White and black stained fine to medium SAND and GRAVEL, trace black dust-stained Cobbles.	
	255	0-8.5	NA		Brown fine to medium SAND.	
5					SLAG, GLASS, CINDERS, trace metal, pottery [LANDFILL DEBRIS - burned, no significant landfill debris that would not screen].	Test pit terminated at 8.5' bgs. Test pit backfilled and capped with clean cap material over new geotextile liner.
	250					
10						
	245					
15						

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Draft for EPA Review

Mill Street Area

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Date Start/Finish: 5/17/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** John Smart **Equipment:** 310SE John Deere Backhoe	**Northing:** 121588.2 **Easting:** 987394.8 **Ground Surface Elevation:** 259.5' **Test Pit Depth:** 5.5' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** MSTP-1 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
	260					
0					Cap approximately 1' thick.	
					Dark brown and light brown fine to medium SAND, moist, loose, no odor.	Fiberous liner on top of concrete at approximately 1' bgs. Slab extends 12' to 30' from west edge of test pit. A footing located at the western edge is approximately 2' thick. Slab extends north, east, and south and is 3" thick.
		0-5.5	NA		Gray fine to medium SAND, gray matrix has some cohesiveness. Appears to be weathered concrete, no odor.	
	255				Dark brown fine to medium SAND.	Test pit terminated at 5.5' bgs. Test pit backfilled and capped with clean cap material over new geotextile liner.
5						
	250					
10						
	245					
15						

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 5/17/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** John Smart **Equipment:** 310SE John Deere Backhoe	**Northing:** 121556.1 **Easting:** 987458.4 **Ground Surface Elevation:** 259.4' **Test Pit Depth:** 5.0' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** MSTP-2 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH / ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
260					
0	0-5.0	15.0 26.0 (- -)		Light brown fine to medium SAND, trace Gravel, moist, loose. Light brown very fine SAND and SILT, moist, not cohesive. Very dark brown fine to medium SAND, trace Silt, slightly cohesive, breaks up easily, slight odor. Orange-brown medium SAND, trace sheen on soils, odor.	Geotextile liner at 1.5' bgs. No sign of subsurface anomaly in 5'x3' pit. Expand north to 4' in length. No sign of metal or non-soil objects. Southern edge of pit 3' from asphalt apron. Did not extend pit south due to proximity of road. Test pit terminated at 5' bgs. Test pit backfilled and capped with clean cap material over new geotextile liner.
255 / 5					
250 / 10					
245 / 15					

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
(- -) = negative shake test result

Date Start/Finish: 5/17/04 **Excavating Company:** Marcor Remediation Inc. **Operator's Name:** John Smart **Equipment:** 310SE John Deere Backhoe	**Northing:** 121570.8 **Easting:** 987493.5 **Ground Surface Elevation:** 259.7' **Test Pit Depth:** 6.0' below grade **Field Person (s):** Leanne Roulier	**Test Pit No.** MSTP-3 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample/Int/Type	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Engineer's/Geologist's Notes
	260					
0		0-6.0	89.0 (- -)		Light to medium brown fine to medium SAND, moist, loose.	Geotextile liner at 1.5' bgs.
					Medium brown very fine SAND, little Silt, not cohesive.	
					Very dark brown fine to medium SAND, trace Silt, not cohesive, slight odor. Shake test negative.	
					SAME AS ABOVE, some Cobbles, trace metal.	
	255		4.5		Orange-brown medium SAND, slight odor.	Test pit terminated at 6' bgs. Test pit backfilled and capped with clean cap material over new geotextile liner.
5					Very difficult excavating. Apparent boulders, trace metal band (approximately 3"x2' folded), trace wood.	
	250					
10						
	245					
15						

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.
(- -) = negative shake test result

Draft for EPA Review

Geophysical Data

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

geotechnics
INTEGRITY IN TESTING

MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client	BLASLAND, BOUCK & LEE, INC.
Client Reference	GE FLETCHER PAINT 100-02-073
Project No.	2004-042-02

Lab ID	01
Boring No.	5-17-04
Depth (ft)	NA
Sample No.	MSTP-1
Tare Number	2374
Wt. of Tare & WS (gm)	35.44
Wt. of Tare & DS (gm)	33.23
Wt. of Tare (gm)	8.61
Wt. of Water (gm)	2.21
Wt. of DS (gm)	24.62
Water Content (%)	9.0

Notes : *NA*

Tested By *JP* *Date* *6/25/04* *Checked By* JLL *Date* 6/29/04

DCN: CT-S1 DATE 6-30-98 REVISION: 2

C:\MSOFFICE\Excel\PrintQ\[B194.xls]Sheet1

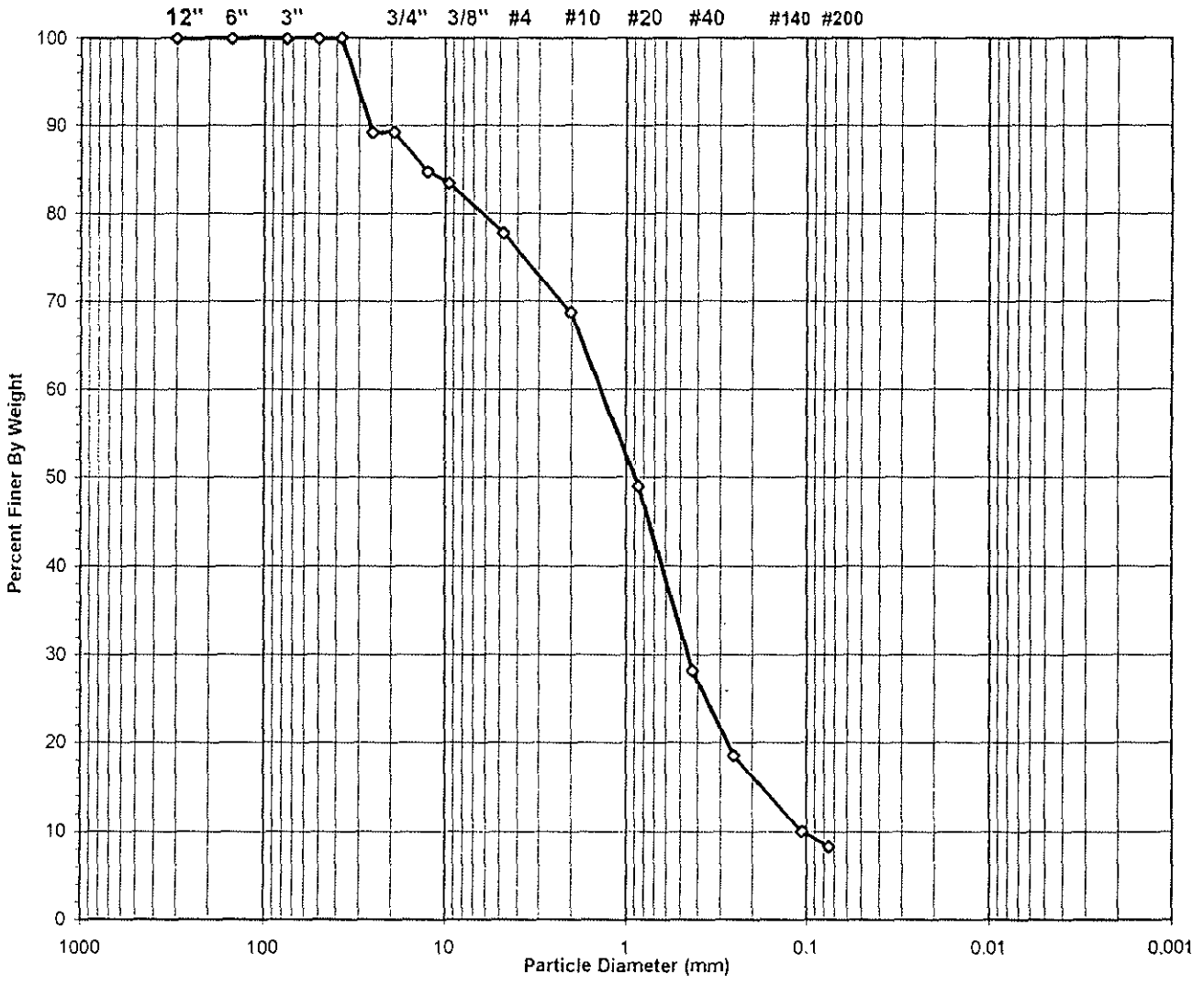
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE, INC.	Boring No.	5/17/04
Client Reference	GE FLETCHER PAINT 100-02-073	Depth (ft)	NA
Project No.	2004-042-02	Sample No.	MSTP-1
Lab ID	2004-042-02-01	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	gravel	sand	silt and clay



USCS Symbol *sw-sm, ASSUMED* D60 = 1.4 CC = 1.4
(UNABLE TO RUN HYDROMETER)
USCS Classification *WELL-GRADED SAND WITH SILT AND GRAVEL* D30 = 0.5 CU = 13.1
D10 = 0.1

Tested By TMO Date 7/1/04 Checked By JW Date 7/6/04

 DCN: CT-S3C DATE 6-26-98 REVISION: 2 C:\MSOFFICE\Excel\PrintQ\C154.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE, INC.	Boring No.	5/17/04
Client Reference	GE FLETCHER PAINT 100-02-073	Depth (ft)	NA
Project No.	2004-042-02	Sample No.	MSTP-1
Lab ID	2004-042-02-01	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	2351	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	406.73	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	381.11	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	96.36	Weight of Tare (gm)	NA
Weight of Water (gm)	25.62	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	284.75	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**9.0**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	284.75
Dry Weight - 3/4" Sample (gm)	230.4	Weight of minus #200 material (gm)	23.76
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	260.99
Dry Weight + 3/4" Sample (gm)	30.59		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	30.59	10.74	10.74	89.26	**89.26**
3/4"	19.0	0.00	0.00	10.74	89.26	**89.26**
1/2"	12.50	12.80	4.50	15.24	84.76	**84.76**
3/8"	9.50	3.66	1.29	16.52	83.48	**83.48**
#4	4.75	16.25	5.71	22.23	77.77	**77.77**
#10	2.00	25.91	9.10	31.33	68.67	**68.67**
#20	0.850	56.01	19.67	51.00	49.00	**49.00**
#40	0.425	59.28	20.82	71.82	28.18	**28.18**
#60	0.250	27.36	9.61	81.43	18.57	**18.57**
#140	0.106	24.28	8.53	89.95	10.05	**10.05**
#200	0.075	4.85	1.70	91.66	8.34	**8.34**
Pan	-	23.76	8.34	100.00	-	-

Tested By TMO Date 7/1/04 Checked By JW Date 7/6/04

DCN: CT-S3C DATE 6-26-98 REVISION: 2

C:\MSOFFICE\Excel\PrintQ\[C154.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

Appendix J

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Appendix J

Miscellaneous Monitoring Well Information

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Appendix J: Table of Contents

J Miscellaneous Monitoring Well Information

- Regulatory Correspondence
- Data Tables
- Figures
- Monitoring Well Soil Geotechnical Data
- Monitoring Well Bedrock Geotechnical Data
- Monitoring Well Construction Logs
- Borehole Geophysics Logging Report
- Monitoring Well Development/Specific Capacity Logs
- Groundwater Sampling Logs

Draft for EPA Review

Regulatory Correspondence

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Draft for EPA Review

GE's Low-Flow Groundwater Technical Sampling Memorandum dated April 13, 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Lewis S. Streeter
Project Manager

General Electric Company
Corporate Environmental Programs
320 Great Oaks Boulevard, Suite 323
Albany, NY 12203-5965
Phone: 518-862-2712; Dial Comm: 8*232-2712
Fax: 518-862-2702; Dial Comm: 8*232-2702
E-mail: Lewis.Streeter@corporate.ge.com

April 13, 2004

Ms. Cheryl Sprague
Remedial Project Manager
U.S. Environmental Protection Agency
1 Congress Street, Suite 1100 (HBO)
Boston, MA 02114

Subject: Groundwater Sampling Documents
Pre-Design Investigation
Fletcher's Paint Works and Storage Facility Superfund Site
CERCLA Docket No. 01-2001-0063

Dear Ms. Sprague:

As requested, the General Electric Company (GE) is submitting several documents relating to the recent groundwater sampling at the reference site. These documents have been prepared by Blasland, Bouck & Lee, Inc., on behalf of GE and consist of the following: monitoring well completion logs; monitoring well development logs; a technical memorandum detailing the procedures followed during the initial round of groundwater sampling; revised Appendix F of the Field Sampling Plan (FSP); and, revised Appendix G of the FSP.

The first three documents are for your use. Please note that this information will also be included in the pre-design report. Appendices F and G have been revised based on information gained during the initial groundwater-sampling event. We are proposing to follow these revised procedures during subsequent sampling events and therefore request that the EPA review and approve or review and comment on these two attachments. Once final approval is received from the EPA, the attached appendices will replace the current versions contained in the Project Operations Plan. Finally, as you are aware, prior to initiating the quarterly groundwater-monitoring program we need final EPA approval of the Surface Water and Groundwater Monitoring Plan. If you have any questions regarding this plan, please do not hesitate to contact me.

Sincerely,

Lewis S. Streeter/cpt

Lewis S. Streeter
Remedial Project Manager

cc: Bonnie Harrington, GE (without attachments)
Corey Averill, Blasland, Bouck & Lee (without attachments)
Thomas Andrews, NHDES (with attachments)

V:\GE_Fletcher_Paint\Correspondence\20542196.doc

Attachment C

Low-Flow Groundwater Sampling Technical Memorandum

BBL®

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

MEMORANDUM

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

To: Lewis S. Streeter, GE

Date: April 14, 2004

From: Leanne M. Roulier, BBL

cc: Corey R. Averill, BBL
Michael J. Gefell, BBL
Lowell W. McBurney, BBL

Re: Low Flow Groundwater Sampling Technical Memorandum
GE Fletcher Paint Works and Storage Facility, Superfund Site Operable Unit 1
General Electric Company – Milford, NH

As requested, BBL has developed this memo to summarize the procedures used and observations made by BBL personnel during the initial groundwater sampling event conducted at the Fletcher Paint Works and Storage Facility Superfund Site in Milford, NH (the Site) between February 9 and 26, 2004. This memorandum also references summaries of technical discussions between GE, BBL, and EPA Representatives, as documented in the minutes from weekly status meetings and relevant discussions between BBL field sampling personnel and EPA oversight personnel.

Prior to the mobilization of the BBL field crew, the low-flow groundwater sampling standard operating procedures (SOPs) included in Appendix F of the Field Sampling Plan were reviewed by BBL's hydrogeology expert. Based on this review, a minimum pumping rate of 30 milliliters per minute (mL/min) was identified for use during performance of the low-flow sampling activities. Although this pumping rate is lower than the minimum rate of 100 mL/min referenced in Appendix F of the FSP, this modification was considered to be consistent with the USEPA Region 1 low-flow sampling protocol for the following reasons:

- No minimum pumping rate is specified in EPA's low-flow protocol;
- Pumping at this rate will minimize (or eliminate) drawdown of the water column within the well;
- The goal of low-flow sampling is to eliminate the flow of particulate material into the well and thus the samples collected from the well; and,
- Technological advances in pump designs allow pumping rates as low as 30 mL/min.

To ensure the sufficient exchange of the volume of water in the flow through cell (where certain readings are collected) when using this pumping rate, the SOP was further modified such that readings would be collected every 15 minutes rather than the 3 to 5 minutes suggested in Appendix F of the FSP. The low-flow sampling SOP, including the revised pumping rate of 30 mL/min and reading collection intervals, was reviewed with the BBL sampling personnel prior to the initiation of low-flow sampling activities.

6723 Towpath Road, P.O. Box 66 • Syracuse, NY 13214-0066 • Telephone (315) 446-9120 • Fax (315) 449-0017

As previously indicated, low-flow sampling activities were conducted over a three week period from February 9 to 26, 2004. Over the course of this three week period, low-flow sampling procedures were the subject of extensive discussions between GE, BBL, EPA, and USACE representatives. As further discussed below, certain modifications to the low-flow sampling SOP resulted from those discussions, as well as observations made by field sampling personnel during the performance of the low-flow sampling activities. The remainder of this memorandum provides a chronological summary of the low-flow sample collection activities on a weekly basis. In support of the information documented below, BBL has summarized certain supplemental information such as average pumping rates, pumping rate at the time of sampling (stabilized pumping rate), total drawdown while purging, and final turbidity readings in the table at the end of this memorandum.

Week 1 – February 9 through 13, 2004

On February 9, field personnel for the groundwater sampling event mobilized to the Site. Following Site orientation and equipment inventory/calibration activities, low-flow sampling activities were initiated on February 10 at upgradient monitoring wells (MW) MW-10A, MW-10C, MW-25B, and MW-25C. These wells were sampled at flow rates ranging from 30 to 42 mL/min. These wells experienced minimal drawdown (0 to 0.08 feet) and achieved stabilization of indicator parameters with the exception of MW-10C. MW-10C was purged for 4 hours during which time turbidity did not fall below the targeted 50 NTUs due to a small amount of "rock flour" build up in the pump discharge tubing. After 4 hours, the field crew was directed to collect the required samples and document attempts at stabilization as per the Region 1 Low Flow guidance.

The BBL field team completed sampling at MW-5A, MW-5B and MW-10B on February 11. These wells were purged at an average pumping rate of 30 to 32 mL/min with minimal drawdown (0 to 0.07 feet). All samples were collected with final turbidities less than 20 NTUs. The use of pumping rates approaching 30 mL/min was conceptually discussed with EPA oversight personnel beginning in mid- to late-January during/after weekly status meetings and as it related to their split sample collection activities. Specifically, the use of this pumping rate was discussed with respect to schedule and duration for EPA split sample collection activities. As requested, BBL provided an e-mail to EPA on February 11, which provided the rationale for low-flow sample collection utilizing a pumping rate of 30 mL/min. The rationale for the low-flow pumping rate provided in that e-mail was based on the same rationale cited previously in this memorandum.

During the February 12 weekly status meeting, GE, BBL, EPA, and USACE representatives further discussed the appropriateness of using a pumping rate of 30 mL/min during low-flow sample collection activities. As a result of these discussions, GE agreed to target a minimum flow rate of 100 mL/min provided that drawdown within the well was minimized in accordance with the USEPA Region 1 Low Flow Sampling Guidance. BBL/GE representatives also clarified that the pumping rate during future low-flow sampling would not exceed the pumping rate at which each monitoring well was developed (e.g., 250 mL/min, in most instances). EPA approved the use of baseline data from upgradient and sentinel monitoring wells (e.g., MW-05A, MW-05B, MW-10A, MW-10B and MW-10C, MW-25B, and MW-25C), where samples had already been collected at 30 mL/min.

On February 12 and 13, groundwater samples were collected from MW-23A, MW-23B, and MW-24A at flow rates of 200, 100, and 120 mL/min, respectively. Groundwater samples were

collected from MW-23A and MW-24A with virtually no drawdown and turbidity values well below 50 NTU. MW-23B was sampled at a relatively lower pumping rate of 100 mL/min with total drawdown of 0.02 feet since turbidity readings were very slow to stabilize (i.e., slowly decreasing from 350 NTU to 50 NTU over an approximate 2½ hour period). Groundwater split samples were collected from monitoring wells MW-23A and MW-23B by USACE oversight personnel on February 13.

Week 2 – February 16 through 20, 2004

Based on the review of the well development logs and field notes, it was concluded that, with few exceptions, the remaining monitoring wells subject to low-flow sample collection activities would be sampled at a pumping rate approaching 100 mL/min, as agreed upon at the February 12 weekly status meeting. Between February 16 and 19, several wells including MW-01A, MW-04A, MW-04C, MW-08A, MW-08B, MW-09A, MW-09B, MW-11A, MW-11B, MW-23C, and MW-24C, were all purged and sampled at a flow rate of 100 mL/min with virtually no drawdown and turbidity values well below the target minimum of 50 NTUs. The EPA project manager was onsite to collect additional groundwater samples for 1,4-dioxane from MW-04A, MW-04C MW-11A, and MW-11B. USACE field oversight also collected split samples from MW-04A and MW-04C.

On February 17, BBL field sampling personnel encountered difficulty regarding the performance of low-flow sampling and purging activities at MW-01B and MW-24B. The height of the water column at these monitoring wells was not sufficient to allow for the performance of low-flow sampling activities in accordance with the SOP. Specifically, the low-flow purging and sampling SOP requires that submersible and/or bladder pumps be lowered to the approximate middle of the saturated well screen, with the pump intake located at least 2 feet above the bottom of the well to avoid the uptake/re-suspension of any sediments located at the bottom of the well. In such instances where the length of the water column does not allow such pump placement, the pumps are usually operated in low-submergence mode, which provides extra suction so that air is not entrained in the sample(s). However, based on concerns regarding sediment entrapment in the bladder, the low-submergence mode was turned off and the bladder pump was almost completely submerged to prevent any air from entering the bladder. This resulted in the intake of the bladder pump being located less than the 2 feet above the bottom of each well, which is less than the minimum distance specified in the SOP. The minimum flow rate of 100 mL/min was again utilized at MW-01B and MW-24B to minimize the potential for mobilization of sediment in the bottom of the well(s) and to avoid entrainment of air in the collected samples.

During the February 19, weekly project status meeting, both the EPA and GE/BBL agreed that sampling personnel would start the flow at 100 mL/min and increase the rate to 250 mL/min provided the maximum drawdown did not exceed 0.3 feet and the 50 NTU goal was achievable at this higher rate. With the exception of monitoring well MW-27A (discussed below), the remaining monitoring wells (MW-04B, MW-18B, MW-28A, and MW-28B) were purged and sampled at flow rates from 200 to 220 mL/min. Drawdown at these wells ranged from 0 to 0.15 feet and final turbidities were below the 50 NTU goal. Split samples were collected at monitoring wells MW-04B and MW-28A by USACE field oversight.

Low-flow sampling activities were initiated at MW-27A on February 20. A review of the well development logs indicated that during development at a rate of 250 mL/min, approximately 2 feet of drawdown were observed at the well. The initial pumping rate utilized for this well was

approximately 110 mL/min. A review of the well construction log indicated that the observed drawdown was likely due to the presence of fine sands and silt. The pumping rate at this well was systematically reduced to a rate of 60 mL/min over a period of 3 hours until the target turbidity value of 50 NTU was achieved and the observed drawdown did not exceed 0.3 feet.

Week 3 – February 23 through 27, 2004

With the exception of certain wells (further described below), the remaining monitoring wells (MW-02AR, MW-02B, MW-03A, MW-03B, MW-07A, MW-21C, MW-22A, MW-26A, and MW-29B) were purged and sampled at flow rates between 200 and 230 mL/min. Drawdown at these wells ranged from 0 to 0.09 feet and final turbidities were below the 50 NTU goal. Split samples were collected at all of these wells by USACE field oversight with the exception of MW-07A, and MW-29B.

Monitoring well MW-27B was sampled on February 23. Based on the experience at MW-27A, which was sampled on February 20, an initial pumping rate of 55 mL/min was selected for the initiation of low-flow sampling activities. Initial drawdown at MW-27B was still greater than the maximum value of 0.3 feet and the initial NTU readings were greater than the target value of 50. As a result, the pumping rate at this well was reduced to 40 mL/min over a period of 1½ hours until the drawdown did not exceed 0.3 feet and the target value of 50 NTU was achieved.

On February 24 and 25, monitoring wells MW-22B and MW-26B were sampled at pumping rates of 100 and 140 mL/min due to relatively high initial turbidity readings. Approximately 3 and 1½ hours of purging, respectively, were required to achieve stable NTU readings less than the target value of 50. Split samples were collected from both MW-22B and MW-26B by USACE field oversight.

Finally, difficulties with excessive drawdown also occurred while sampling MW-22C on February 25. Drawdown exceeded 2.5 feet at 100 mL/min within the first 5 minutes of purging. The pumping rate was systematically reduced to 25 mL/min and indicator parameters were measured every 15 minutes. Drawdown continued at a rate of approximately 0.1 feet every 15 minutes until samples were collected. A split sample was collected by USACE oversight personnel from MW-22C.

The following table summarizes the measurements collected and field observations made during the low-flow sampling activities conducted in February 2004.

Date	Well ID	Average Pumping Rate (mL/min)	Stabilized Pumping Rate (mL/min)	Total Drawdown During Purge (feet)	Final Turbidity Reading (NTU)
2/10/2004	MW-25C	30	30	0.01	17
2/10/2004	MW-25B	30	30	0	12
2/10/2004	MW-10A	32	32	0.07	3
2/10/2004	MW-10C	42	42	0.08	83
2/11/2004	MW-10B	32	32	0.07	1
2/11/2004	MW-5A	30	30	0	9

Date	Well ID	Average Pumping Rate (mL/min)	Stabilized Pumping Rate (mL/min)	Total Drawdown During Purge (feet)	Final Turbidity Reading (NTU)
2/11/2004	MW-5B	30	30	0.01	17
2/12/2004	MW-24A	120	120	0	8
2/13/2004	MW-23A	200	200	0.01	5
2/13/2004	MW-23B	100	100	0.02	32
2/16/2004	MW-01A	100	100	0	4
2/17/2004	MW-01B	100	100	0	2
2/17/2004	MW-23C	100	100	0	1
2/17/2004	MW-24C	100	100	0	2
2/17/2004	MW-24B	100	100	0	7
2/18/2004	MW-08A	100	100	0	20
2/18/2004	MW-08B	100	100	0	1
2/18/2004	MW-09A	100	100	0.01	4
2/18/2004	MW-09B	100	100	0	1
2/18/2004	MW-11A	100	100	0	1
2/18/2004	MW-11B	100	100	0.01	5
2/19/2004	MW-04A	100	100	0	8
2/19/2004	MW-04C	100	100	0	2
2/19/2004	MW-04B	185	220	0.01	2
2/19/2004	MW-28A	200	200	0.15	9
2/19/2004	MW-18B	200	200	0	1
2/20/2004	MW-28B	200	200	0.07	5
2/20/2004	MW-27A	62.4	60	0.36	49
2/23/2004	MW-27B	43.5	40	0.2	11
2/23/2004	MW-02AR	200	200	0.08	25
2/24/2004	MW-02B	200	200	0.09	1
2/24/2004	MW-03A	200	200	0.02	7
2/24/2004	MW-03B	200	200	0.01	1
2/24/2004	MW-26B	140	140	0.01	9
2/24/2004	MW-26A	200	200	0.01	10
2/25/2004	MW-22B	68	100	0.14	14
2/25/2004	MW-22A	200	200	0.02	0
2/25/2004	MW-22C	35	25	3.84	8
2/25/2004	MW-29B	220	220	0.01	1
2/26/2004	MW-07A	200	200	0	1
2/26/2004	MW-21C	230	230	0.02	2

Additional details regarding the discussions referenced in this memorandum are documented in the meeting minutes for the February 5, 12, and 19 weekly project status meetings.

LMR/plf

Draft for EPA Review

BBL e-mail to EPA Providing Proposed NAPL Sample Collection Procedures dated June 2, 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

SUSAN TAURO - MW-21C NAPL Sampling Procedures

From: COREY AVERILL
To: internet:Scott.E.Acone@nae02.usace.army.mil; internet:sprague.cheryl@epa.gov
Date: 6/2/2004 5:43 PM
Subject: MW-21C NAPL Sampling Procedures
CC: internet:lewis.streeter@corporate.ge.com; ROULIER, LEANNE M.

Hi Cheryl,

As you are aware, DNAPL was observed in unmeasurable, trace amounts in monitoring well MW-21C during Phase 2 Investigation activities at the Site earlier this year. BBL collected a sample of the sediment/groundwater/NAPL mixture observed at the bottom of this well for analysis of VOCs, SVOCs and PCBs on January 29, 2004. The data from this sample was presented in Table 9 of the February 2004 Monthly Report, which was submitted on March 9, 2004. On April 22, 2004 GE and EPA discussed the potential for collecting a DNAPL sample for characterization. As part of that meeting, EPA requested that GE/BBL propose DNAPL sample collection procedures for EPA review prior to sample collection. In addition, as recommended by EPA, BBL discussed DNAPL sample collection methods with USACE representatives. However, BBL and USACE were unable to identify any commercially available DNAPL sample collection materials/equipment. As a result, BBL proposes to utilize a peristaltic pump to collect the proposed samples. The remainder of this e-mail presents GE's proposed DNAPL sampling procedures for MW-21C.

- Although recent inspections of MW-21C have indicated that an insufficient volume of DNAPL is present in the well for measurement using an oil/water interface probe, BBL will follow the procedures presented in Appendix L (Water Level/Oil Thickness Measurement Procedures) of the November 2003 *Field Sampling Plan* (FSP) to determine if a measurable quantity of DNAPL is present in the bottom of the well. Regardless of the results of the well inspection/measurement activities, BBL will attempt to collect a DNAPL sample from the well.

- If necessary, the peristaltic pump will be cleaned following the procedures specified in Appendix S (Equipment Cleaning Procedures) of the November 2003 FSP.

- The intake end of the pump tubing will be slowly lowered through the water column to the bottom of the well. Pumping will be initiated at a rate of approximately 100 ml/minute with the effluent liquids discharged into a clean graduated cylinder. Once the graduated cylinder is full, the pump will be turned off.

- The DNAPL/sediment/water mixture will be allowed to sit in the graduated cylinder for at least 5 minutes to allow DNAPL, if any, to settle by gravity. If no DNAPL is observed in the bottom of the graduated cylinder after 5 minutes, the container will be emptied and this procedure will be repeated until a minimum total fluid volume of 2 liters has been pumped from the bottom of the well.

As previously indicated, MW-21C may not contain a sufficient volume of DNAPL for measurement/sample collection. As a result, EPA recommended in the April 22 meeting that GE/BBL should prioritize the collection of samples for analysis of VOCs, PCBs, and finally SVOCs. BBL has confirmed with STL (GE's analytical lab for this project) that 5 grams (milliliters) of DNAPL will be required for analysis of VOCs and 2 grams (milliliters) will be required for PCB analysis. If additional DNAPL is collected, a sample will also be submitted for analysis of SVOCs.

- If no discernable DNAPL is observed, no samples will be collected. All accumulated liquids will be properly disposed of in accordance with the November 2003 *Site Management Plan* (SMP).

- Assuming distinct layers of water and DNAPL are observed, the water will be decanted into a separate container for proper disposal in accordance with the SMP.

- Any accumulated DNAPL will be poured into a 40 ml unpreserved vial(s).

- These procedures will be repeated until a sufficient volume of DNAPL has been collected for sample analyses or until DNAPL is no longer present in the well.

- Field personnel will process the samples for shipment to the laboratory in accordance with the procedures in Appendix O (Handling, Packing, and Shipping Procedures (Including Chain-of-Custody Procedures) and, if necessary, Appendix P (Hazardous Materials Handling Procedures) of the FSP.

- All sampling equipment will be cleaned in accordance with Appendix S of the FSP, or disposed of in accordance with the SMP.

- All PPE and other wastes generated will be collected for disposal in accordance with the SMP.

- Field sampling personnel will record relevant information on the appropriate forms and/or field notebook.

Upon receipt of EPA approval for the procedures presented herein, BBL will proceed with the proposed NAPL sampling during the subsequent monthly monitoring event.

Depending on the results of the initial DNAPL sampling event at MW-21C, GE/BBL may propose to utilize the procedures presented in this e-mail to develop a DNAPL Sample Collection Standard Operating Procedure for inclusion in the FSP.

Please contact either Lew or myself with any questions regarding the information contained herein.

Thanks,
Corey

Corey R. Averill
Manager
Blasland, Bouck & Lee, Inc.
6723 Towpath Road
Syracuse, NY 13214
Phone: 315 446-9120 x224
Fax: 315 449-0025
e-mail: cra@bbl-inc.com

The information contained in this e-mail message is intended only for the personal and confidential use of the recipient(s) named above. This message may be an attorney-client communication and as such is privileged and confidential. If the reader of this message is not the intended recipient, you are hereby notified that you have received this message in error and that any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this message in error, please notify the sender immediately by e-mail, and delete the original message.

Draft for EPA Review

Data Tables

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Appendix J Data Tables: Table of Contents

- Table J-1 – Summary of Monitoring Well Soil Geotechnical Data
- Table J-2 – Summary of Monitoring Well Soil Total Organic Carbon Data
- Table J-3 – Summary of Monitoring Well Construction
- Table J-4 – Summary of Drilling Mud Sample Data
- Table J-5 – Summary of Monitoring Well Bedrock Geotechnical Data
- Table J-6 – Summary of Soil, Sediment, and NAPL Sample Data
- Table J-7 – Specific Capacity Data and Related Parameters

TABLE J-1
SUMMARY OF MONITORING WELL SOIL GEOTECHNICAL DATA

PRE-DESIGN REPORT
FLETCHER'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NH

Location ID	Sample Depth (feet)	Specific Gravity (at 20° C)	Moisture Content (%)	Bulk Density (pfc)	Porosity (n)
ELM STREET AREA					
MW-26B	18.0 - 19.0	2.60	34.1	80.9	0.50
MW-27B	15.5 - 16.0	2.63	5.6	114.4	0.30
MW-28B	10.5 - 11.5	2.65	10.9	115.0	0.31
MW-29B	17.5 - 18.0	2.40	71.5	54.1	0.64
MILL STREET AREA					
MW-10C	2.0 - 2.5	2.56	16.3	89.2	0.44
MW-22A	5.0 - 5.5	2.63	6.8	107.2	0.35
	15.5 - 16.0	2.65	19.5	110.1	0.33
MW-22B	4.5 - 5.0	2.64	4.2	108.7	0.34
	6.5 - 7.0	2.66	21.8	104.1	0.37
	8.5 - 9.0	2.63	18.6	107.9	0.34
	13.0 - 13.5	2.63	22.9	102.4	0.38
	17.0 - 18.0	2.66	9.2	136.0	0.18
MW-23B	9.5 - 10.0	2.66	12.3	121.2	0.27
	11.3 - 11.8	2.63	10.1	125.7	0.23
	17.0 - 17.5	2.63	13.9	98.7	0.40
	19.5 - 20.0	2.65	7.4	121.3	0.27
	21.0 - 21.5	2.64	9.2	108.8	0.34
MW-24A	9.5 - 10.5	2.65	10.8	118.3	0.28
	17.5 - 18.0	2.63	11.2	120.9	0.26
	19.3 - 19.8	2.59	4.4	118.5	0.27
	21.3 - 21.8	2.64	7.7	130.1	0.21
MW-24B	11.5 - 12.0	2.69	12.5	131.0	0.22
	13.5 - 14.0	2.67	7.8	134.9	0.19
MW-25C	6.0 - 7.5	2.62	8.2	86.7	0.47

Notes:
pfc = pounds per cubic foot

TABLE J-2
SUMMARY OF MONITORING WELL SOIL TOTAL ORGANIC CARBON DATA

PRE-DESIGN REPORT
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Total Organic Carbon
Elm Street Area			
MW-26B	18 - 18.5	12/23/2003	26600
MW-27B	15 - 17	1/30/2004	11500
MW-28B	10 - 10.5	12/31/2003	5820
Mill Street Area			
MW-10C	2 - 4	1/5/2004	17200
MW-22A	5.5 - 6	1/14/2004	3900
	13 - 15	1/27/2004	1220
	15 - 17	1/27/2004	661
	17 - 19	1/27/2004	781
MW-22B	4 - 6	1/28/2004	6680
	6 - 8	1/28/2004	9670
	8 - 10	1/28/2004	1450
MW-23A	17 - 19	1/22/2004	1140
	19 - 21	1/22/2004	1000
	21 - 23	1/22/2004	1660
MW-23B	9 - 11	1/26/2004	12900
	11 - 13	1/26/2004	5050
	13 - 15	1/26/2004	1760
MW-24A	9 - 11	1/6/2004	6860
	17 - 19	1/6/2004	1200
	19 - 21	1/6/2004	1130
	21 - 23	1/6/2004	865
MW-24B	9 - 11	1/7/2004	4360
	11 - 13	1/7/2004	3830
	13 - 15	1/8/2004	2440
MW-25C	6.5 - 7	12/23/2003	942

TABLE J-3
SUMMARY OF MONITORING WELL CONSTRUCTION

PRE-DESIGN REPORT
FLETCHER'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NH

WELL ID	NORTHING	EASTING	GROUND ELEVATION (Feet AMSL)	MEASURING POINT ELEVATION (Feet AMSL)	WELL DIAMETER (Inches)	FLUSH-MOUNT/ STICK-UP	TOTAL DEPTH DEVELOPED (TIC)	DEPTH TO TOP OF SCREEN (Feet BGS)	SCREEN LENGTH (Feet)	TOP OF SCREEN ELEVATION (Feet AMSL)	BASE OF SCREEN ELEVATION (Feet AMSL)	FILTER PACK SIZE	SCREEN SLOT SIZE (inches)	SUMP LENGTH (Feet)	SURVEY DATE	DEVELOPMENT DATE
Elm St																
MW-01A	122264.8	987377.5	265.78	264.77	2	FLUSH	52.00	43.1	10	222.68	212.68	OTTAWA	0.01	NA	9/15/2003	01/22/04
MW-01B	122263.3	987384.8	265.6	264.85	2	FLUSH	32.25	23	10	242.6	232.6	OTTAWA	0.01	NA	9/15/2003	01/22/04
MW-02AR	122449.0	987561.4	258.6	261.18	2	STICK-UP	32.61	25	5	233.6	228.6	GRADE #0	0.01	NA	2/4/2004	02/04/04
MW-02B	122443.8	987561.7	258.36	257.87	2	FLUSH	29.05	15	15	243.36	228.36	OTTAWA	0.01	NA	9/15/2003	02/04/04
MW-03A	122441.0	987317.8	250.53	249.64	2	FLUSH	44.90	36	10	214.53	204.53	OTTAWA	0.01	NA	9/15/2003	02/04/04
MW-03B	122446.2	987312.0	250.37	249.85	2	FLUSH	20.11	11	10	239.37	229.37	OTTAWA	0.01	NA	9/15/2003	02/05/04
MW-04A	122540.3	987233.0	247.53	246.54	2	FLUSH	49.75	40	10	207.53	197.53	OTTAWA	0.01	NA	9/15/2003	01/27/04
MW-04B	122533.7	987233.8	247.38	246.43	2	FLUSH	16.48	7	10	240.38	230.38	OTTAWA	0.01	NA	9/15/2003	01/27/04
MW-04C	122532.1	987220.9	247.18	246.46	2	FLUSH	55.35	50.5	5	196.68	191.68	OTTAWA	0.01	NA	9/15/2003	02/04/04
MW-05A	122957.7	987066.6	241.8	243.36	2	STICK-UP	55.12	43.5	10	198.3	188.3	OTTAWA	0.01	NA	9/15/2003	01/19/04
MW-05BR	122967.8	987064.7	241.98	241.6	2	FLUSH	13.18	3.5	10	238.48	228.48	GRADE #0	0.01	NA	2/4/2004	02/03/04
MW-11A	122018.8	986942.4	269.09	268.34	2	FLUSH	76.95	67.5	10	201.59	191.59	OTTAWA	0.01	NA	2/4/2004	02/02/04
MW-11B	122020.9	986935.5	269.12	268.32	2	FLUSH	34.52	25.25	10	243.87	233.87	OTTAWA	0.01	NA	2/4/2004	02/02/04
MW-18B	122342.6	987312.2	257.95	257.25	2	FLUSH	28.33	19	10	238.95	228.95	OTTAWA	0.01	NA	9/15/2003	02/03/04
MW-26A	122390.2	987467.0	256.2	259.35	2	STICK-UP	45.00	32.48	9.8	223.72	213.92	GRADE #0	0.01	NA	2/4/2004	01/22/04
MW-26B	122386.8	987464.4	256.5	259.50	2	STICK-UP	32.13	18.85	9.8	237.65	227.85	GRADE #0	0.01	NA	2/4/2004	02/04/04
MW-27A	122225.5	987532.6	261.4	264.46	2	STICK-UP	39.25	26.5	9.8	234.9	225.1	GRADE #0	0.01	NA	2/4/2004	02/05/04
MW-27B	122227.8	987537.9	261.4	264.6	2	STICK-UP	28.15	16.1	9.86	245.3	235.44	GRADE #0	0.01	NA	2/4/2004	02/05/04
MW-28A	122239.7	987630.9	260.9	263.98	2	STICK-UP	34.80	21.94	9.8	238.96	229.16	GRADE #0	0.01	NA	2/4/2004	01/26/04
MW-28B	122239.0	987624.1	260.7	264.07	2	STICK-UP	22.86	9.9	9.8	250.8	241	GRADE #0	0.01	NA	2/4/2004	01/26/04
MW-29B	122338.4	987449.0	258.5	261.49	2	STICK-UP	32.93	20	9.8	238.5	228.7	GRADE #0	0.01	NA	2/4/2004	02/04/04
SG-1	122448.7	987392.1	NA	238.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4/22/2004	NA
SG-2	122634	987200.3	NA	237.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4/22/2004	NA
Mill St																
MW-07A	121555.5	987531.1	260.0	261.62	2	STICK-UP	18.87	5.3	11.9	254.7	242.8	OTTAWA	0.01	NA	2/4/2004	02/05/04
MW-08A	121698.8	987372.3	256.08	255.32	2	FLUSH	27.50	18	10	238.08	228.08	OTTAWA	0.01	NA	9/15/2003	01/30/04
MW-08B	121696.8	987378.4	256.14	255.81	2	FLUSH	11.94	2	10	254.14	244.14	OTTAWA	0.01	NA	9/15/2003	01/30/04
MW-09A	121602.1	987263.7	257.89	257.26	2	FLUSH	22.18	15	8	242.89	234.89	OTTAWA	0.01	NA	9/15/2003	01/27/04
MW-09B	121600.5	987267.9	258.23	257.86	2	FLUSH	13.45	3.5	11.5	254.73	243.23	OTTAWA	0.01	NA	9/15/2003	01/27/04
MW-10A	121482.4	987200.2	257	258.71	2	STICK-UP	33.85	21.7	10	235.3	225.3	OTTAWA	0.01	NA	2/3/2004	01/20/04
MW-10B	121481.6	987199.0	256.7	258.18	2	STICK-UP	15.75	4	10	252.7	242.7	OTTAWA	0.01	NA	2/3/2004	01/20/04
MW-10C	121489.3	987206.2	257.0	258.61	4	STICK-UP	52.40	36	15	221[1]	206[1]	NA	NA	NA	2/4/2004	01/21/04
MW-11A	122018.8	986942.4	269.09	268.34	2	FLUSH	76.95	67.5	10	201.59	191.59	OTTAWA	0.01	NA	2/4/2004	02/02/04
MW-11B	122020.9	986935.5	269.12	268.32	2	FLUSH	34.52	25.25	10	243.87	233.87	OTTAWA	0.01	NA	2/4/2004	02/02/04
MW-21C	121572.2	987469.2	259.3	261.72	2	STICK-UP	30.05	24.5	5	234.8	229.8	#2 QUARTZ	0.01	NA	2/3/2004	01/29/04
MW-22A	121601.2	987391.5	259.5	262.62	2	STICK-UP	21.51	13.5	4.8	246	241.2	GRADE #0	0.01	NA	2/4/2004	02/03/04
MW-22B	121601.2	987385.6	259.5	262.41	2	STICK-UP	12.40	4.5	4.8	255	250.2	GRADE #0	0.01	NA	2/4/2004	02/03/04
MW-22C	121602.1	987395.9	259.5	262.69	2	STICK-UP	42.70	30.08	9.8	229.4	219.6	GRADE #0	0.01	2	2/4/2004	01/30/04
MW-23A	121635.3	987457.5	263.6	266.60	2	STICK-UP	25.71	17.5	4.8	246.1	241.3	GRADE #0	0.01	NA	2/4/2004	01/28/04
MW-23B	121634.8	987464.4	263.6	266.49	2	STICK-UP	17.53	9.5	4.8	254.1	249.3	GRADE #0	0.01	NA	2/4/2004	01/28/04
MW-23C	121634.8	987460.6	263.6	266.17	2	STICK-UP	45.02	30.35	9.8	233.25	223.45	GRADE #0	0.01	2	2/4/2004	01/28/04
MW-24A	121629.4	987535.8	263.8	266.52	2	STICK-UP	25.07	17.1	5	246.7	241.7	GRADE #0	0.01	NA	2/4/2004	01/23/04
MW-24B	121626.2	987540.0	264.2	266.73	2	STICK-UP	16.58	9.1	4.7	255.1	250.4	GRADE #0	0.01	NA	2/4/2004	01/23/04
MW-24C	121625.5	987533.2	263.9	266.10	2	STICK-UP	46.50	31.58	9.8	232.3	222.5	GRADE #0	0.01	2	2/4/2004	01/29/04
MW-25B	121111.6	987558.2	262.86	262.52	2	FLUSH	15.86	6.04	9.73	256.82	247.09	GRADE #2	0.01	NA	2/4/2004	01/21/04
MW-25C	121107.2	987563.8	263.06	262.46	4	FLUSH	39.47	25	15	238.06[1]	223.06[1]	NA	NA	NA	2/4/2004	01/21/04

Notes:
NA-Not Applicable
1. Open hole construction

TABLE J-4
SUMMARY OF DRILLING MUD SAMPLE DATA

PRE-DESIGN REPORT
FLETCHER'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	DRILLINGMUD 01/22/04	DRILLINGMUD 01/27/04
Volatile Organics		
1,2,4 Trichlorobenzene	ND(0.010)	NA
cis-1,2-Dichloroethene	ND(0.010)	NA
Methyl tert butyl ether	0.0026 J	NA
Trichloroethene	ND(0.010)	NA
PCBs		
Aroclor 1242	NA	ND(0.000071)
Total PCBs	NA	ND(0.000071)
Semivolatile Organics		
Biphenyl	NA	ND(0.011)
Pyrene	NA	ND(0.011)

Notes:
1. Samples were collected by Blasland Bouck & Lee, Inc., and submitted to Severn Trent Laboratories, Inc. for analysis of PCBs, VOCs, and SVOCs.
2. NA - Not Analyzed.
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Only those constituents detected in one or more samples are summarized.

Data Qualifiers:

Organics (PCBs, volatiles, semivolatiles)
J - Indicates an estimated value less than the practical quantitation limit (PQL).

TABLE J-5
SUMMARY OF MONITORING WELL BEDROCK GEOTECHNICAL DATA

PRE-DESIGN REPORT
FLETCHER'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NH

Location ID	Sample Depth (feet)	Specific Gravity (at 20° C)	Average Permeability (cm/sec)	Porosity	Moisture Content (%)
MW-10C	42.0-42.5	2.61	1.40E-08	0.01	0.3
MW-22C	39.0-39.5	2.62	1.30E-08	0.01	0.2
	28.5-28.8	2.67	2.90E-08	0.00	0.5

TABLE J-6
SUMMARY OF SOIL, SEDIMENT AND NAPL SAMPLE DATA

PRE-DESIGN REPORT
FLETCHER'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MSMW-21C 01/29/04
Volatile Organics	
1,1,1-Trichloroethane	ND(0.020)
1,2,4 Trichlorobenzene	0.14
cis-1,2-Dichloroethene	0.0099 J
Trichloroethene	1.0 E
PCBs	
Aroclor 1242	4.3
Total PCBs	4.3
Semivolatile Organics	
Biphenyl	0.13
Pyrene	0.0050 J

Notes:
1. Samples were collected by Blasland Bouck & Lee, Inc., and submitted to Severn Trent Laboratories, Inc. for analysis of PCBs, VOCs, and SVOCs.
2. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
3. Only those constituents detected in one or more samples are summarized.

Data Qualifiers:

Organics (PCBs, volatiles and semivolatiles)
E - Analyte exceeded calibration range.
J - Indicates an estimated value less than the practical quantitation limit (PQL).

TABLE J-7
SPECIFIC CAPACITY DATA AND RELATED PARAMETERS

PRE-DESIGN REPORT
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in feet above mean sea level)

Well ID	Formation Tested	Assumed Storativity	Pumping Period (minute)	Water Removed (gallon)	Initial Water level (ft) below Measurement Point	Final Water level (ft) below Measurement Point	Sandpack Top(ft, bgs)	Sandpack Bottom(ft, bgs)	Sandpack Porosity	Total Well Depth (ft, bgs)	Well Casing Diameter (inch)
ELM STREET											
MW-2AR[1]	Sand	0.01	120	8	25.85	25.86	23	30	0.3	30	2
MW-26A[1]	Sand and weathered rock	0.01	120	8	23.69	23.7	30.5	42.5	0.3	42.5	2
MW-26B[1]	Sand	0.01	120	8	24.31	24.32	17	29	0.3	29	2
MW-27A	Sand	0.01	120	8	25.74	27	25	36.65	0.3	36.65	2
MW-27B	Sand	0.01	120	8	25.12	25.2	14	26	0.3	26	2
MW-28A	Sand, gravel and weathered rock	0.01	120	8	20.54	20.8	20	32	0.3	32	2
MW-28B	Sand	0.01	120	8	15.98	15.99	8	20	0.3	20	2
MW-29B	Sand	0.01	120	8	26.03	26.05	18	30	0.3	30	2
MILL STREET											
MW-22A[1]	Sand	0.01	120	8	9.71	9.72	11.5	18.5	0.3	18.5	2
MW-22B	Sand	0.01	105	7	9.53	9.54	4.5	11	0.3	11	2
MW-22C	Granitic Gneiss and Granite	0.00001	50	90	14.1	37.51	28.4	39.88	0.3	39.88	2
MW-23A	Sand	0.01	120	8	13.64	13.69	15.5	22.5	0.3	22.5	2
MW-23B	Sand	0.01	90	6	13.67	13.71	7.5	16	0.3	16	2
MW-23C	Granite	0.00001	120	315	14.02	14.5	29	40.15	0.3	40.15	2
MW-24A	Sand	0.01	120	8	13.95	13.96	15	22	0.3	22	2
MW-24B[1]	Sand	0.01	120	8	13.87	13.88	7	14	0.3	14	2
MW-24C	Fractured granite	0.00001	195	495	14.22	14.25	29.6	41.38	0.3	41.38	2
OFF-SITE WELLS											
MW-5BR[1]	Sand	0.01	120	8	6.31	6.32	2.5	13.5	0.3	13.5	2
MW-10C	Open Hole Granite	0.00001	150	10	7.85	8.69	36	51	0.3	51	2.875
MW-25B[1]	Sand	0.01	125	8	8.61	8.62	4	16	0.3	16	2
MW-25C	Open Hole in Granitic Gneiss and Granite	0.00001	120	8	8.95	8.99	25	40	0.3	40	2.875

TABLE J-7
SPECIFIC CAPACITY DATA AND RELATED PARAMETERS

PRE-DESIGN REPORT
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in feet above mean sea level)

Well ID	Well Borehole Diameter (inch)	Reference Point Elevation (ft, ags)	Water Removed from Well Storage (gallon)	Water Removed from Sandpack (gallon)	Water Removed from Aquifer (gallon)	K (ft/day)	Number of Fractures (n) within the Screened Interval	Average Fracture Spacing (s) (cm)	Average Fracture Aperture (e) $(cm)^2$
ELM STREET									
MW-2AR[1]	8.25	2.58	1.63E-03	7.84E-03	7.99E+00	>185.89	NA	NA	NA
MW-26A[1]	8.25	2.8	1.63E-03	0.00E+00	8.00E+00	>104.37	NA	NA	NA
MW-26B[1]	8.25	3	1.63E-03	7.84E-03	7.99E+00	>162.69	NA	NA	NA
MW-27A	8.25	3.3	2.06E-01	0.00E+00	7.79E+00	0.46	NA	NA	NA
MW-27B	8.25	3	1.31E-02	6.27E-02	7.92E+00	32.45	NA	NA	NA
MW-28A	8.25	2.7	4.24E-02	0.00E+00	7.96E+00	2.81	NA	NA	NA
MW-28B	8.25	3	1.63E-03	7.84E-03	7.99E+00	178.21	NA	NA	NA
MW-29B	8.25	3.2	3.26E-03	1.57E-02	7.98E+00	81.72	NA	NA	NA
MILL STREET							NA	NA	NA
MW-22A[1]	8.25	3	1.63E-03	0.00E+00	8.00E+00	>178.91	NA	NA	NA
MW-22B	8.25	3	1.63E-03	7.84E-03	6.99E+00	276.49	NA	NA	NA
MW-22C	2.875	3.19	3.82E+00	3.09E-01	8.59E+01	1.59	NA	NA	NA
MW-23A	8.25	2.8	8.16E-03	0.00E+00	7.99E+00	30.58	NA	NA	NA
MW-23B	8.25	3	6.53E-03	3.14E-02	5.96E+00	49.56	NA	NA	NA
MW-23C	2.875	2.55	7.83E-02	0.00E+00		163.05	NA	NA	NA
MW-24A	8.25	3	1.63E-03	0.00E+00	0.00E+00	178.91	NA	NA	NA
MW-24B[1]	8.25	3	1.63E-03	7.84E-03	7.99E+00	>399.70	NA	NA	NA
MW-24C	2.875	2.2	4.89E-03	0.00E+00	4.95E+02	73.93	2.50	143.62	0.0843
OFF-SITE WELLS									
MW-5BR[1]	8.25	0	1.63E-03	7.84E-03	7.99E+00	>174.00			
MW-10C	2.875	4.62	2.83E-01	0.00E+00	9.72E+00	1.37	6.00	76.20	0.0183
MW-25B[1]	8.25	0	1.63E-03	7.84E-03	7.99E+00	>162.52			
MW-25C	2.875	0	1.35E-02	0.00E+00	7.99E+00	34.75	3.50	130.63	0.0635

Notes:
1. No drawdown observed during test. A drawdown of 0.01 ft was assumed for K calculation.
2. Calculation based on *Zeigler, T. W., 1976, Determination of Rock Mass Permeability, U.S. Army Engineers Waterways Experiment Station,* Soils and Pavements Laboratory, Vicksburg, Mississippi.

NA = Not Applicable

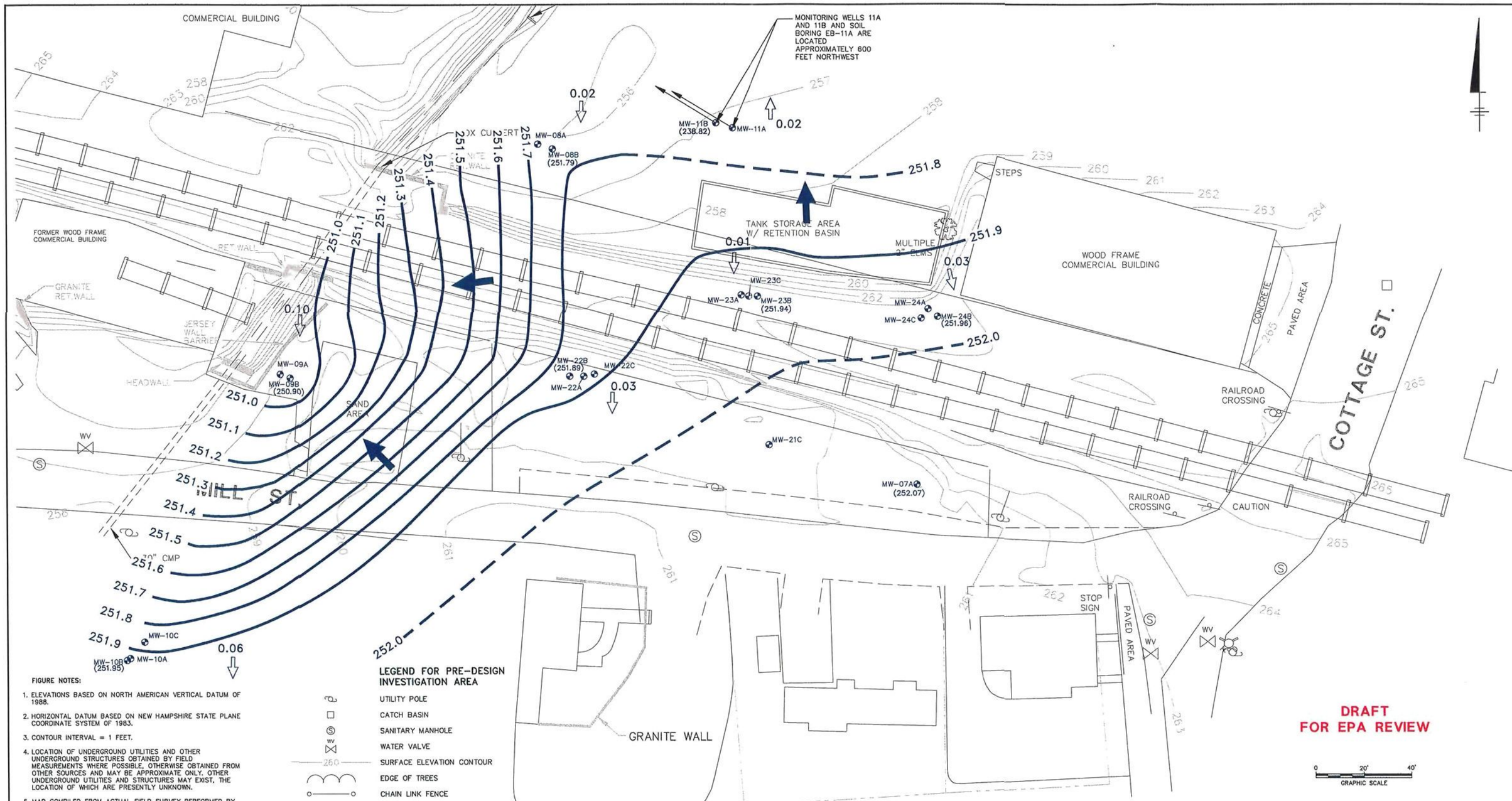
Draft for EPA Review

Figures

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Appendix J Figures: Table of Contents

- Figure J-1 – Mill Street Area - Seasonal Low Water Table Contour Map (September 14, 2004)
- Figure J-2 – Mill Street Area - Seasonal High Water Table Contour Map (April 19 and 20, 2004)



DRAFT
FOR EPA REVIEW

FIGURE NOTES:

1. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
2. HORIZONTAL DATUM BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM OF 1983.
3. CONTOUR INTERVAL = 1 FEET.
4. LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES OBTAINED BY FIELD MEASUREMENTS WHERE POSSIBLE, OTHERWISE OBTAINED FROM OTHER SOURCES AND MAY BE APPROXIMATE ONLY. OTHER UNDERGROUND UTILITIES AND STRUCTURES MAY EXIST, THE LOCATION OF WHICH ARE PRESENTLY UNKNOWN.
5. MAP COMPILED FROM ACTUAL FIELD SURVEY PERFORMED BY BBL, INC. FROM JULY 16, 2003 THROUGH AUGUST 14, 2003, AND FROM MERIDAN LAND SERVICES, INC. JANUARY 22, 2004.
6. MONITORING WELL CLUSTERS MW-09 AND MW-25 ARE LOCATED A SIGNIFICANT DISTANCE FROM THE SITE. WATER TABLE ELEVATIONS, HYDRAULIC GRADIENT AND FLOW DIRECTIONS ARE SHOWN FOR REFERENCE ONLY.
7. MONITORING WELL MW-07A IS AN INTERMEDIATE WELL AND THE WATER TABLE ELEVATION IS SHOWN FOR REFERENCE ONLY.
8. VERTICAL GRADIENT AT MONITORING WELL CLUSTERS WAS CALCULATED BETWEEN THE SHALLOW OVERBURDEN MONITORING WELL ("B" WELL) AND THE BEDROCK MONITORING WELL ("C" WELL).

X: 10002X02.DWG
L: ON=*, OFF=REF, |XSPOT, |XWOODS_ED, |BENCHMARK
P: PAGESET/SYR-DL
1/13/05 SYR-85-NES GMS LJP
C/10002090/10002W02.DWG

LEGEND FOR PRE-DESIGN INVESTIGATION AREA

	UTILITY POLE
	CATCH BASIN
	SANITARY MANHOLE
WV	WATER VALVE
260	SURFACE ELEVATION CONTOUR
	EDGE OF TREES
	CHAIN LINK FENCE
	FIRE HYDRANT
MW-8B	EXISTING MONITORING WELL
	ASPHALT APRON INSTALLED DURING REMEDIAL ACTION PERFORMED IN 1995
251.5	GROUNDWATER ELEVATION CONTOUR LINE (FT. AMSL)
251.8	ESTIMATED GROUNDWATER ELEVATION CONTOUR LINE (FT. AMSL)
(235.36)	GROUNDWATER ELEVATION (FT. AMSL)
	GENERALIZED HORIZONTAL GROUNDWATER FLOW DIRECTION
0.005	VERTICAL HYDRAULIC GRADIENT AND DIRECTION

GENERAL ELECTRIC COMPANY
FLETCHER'S PAINT WORKS AND STORAGE FACILITY
SUPERFUND SITE – MILFORD, NEW HAMPSHIRE
PRE-DESIGN REPORT

MILL STREET AREA - SEASONAL LOW WATER TABLE CONTOUR MAP (SEPTEMBER 14, 2004)

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE
J-1

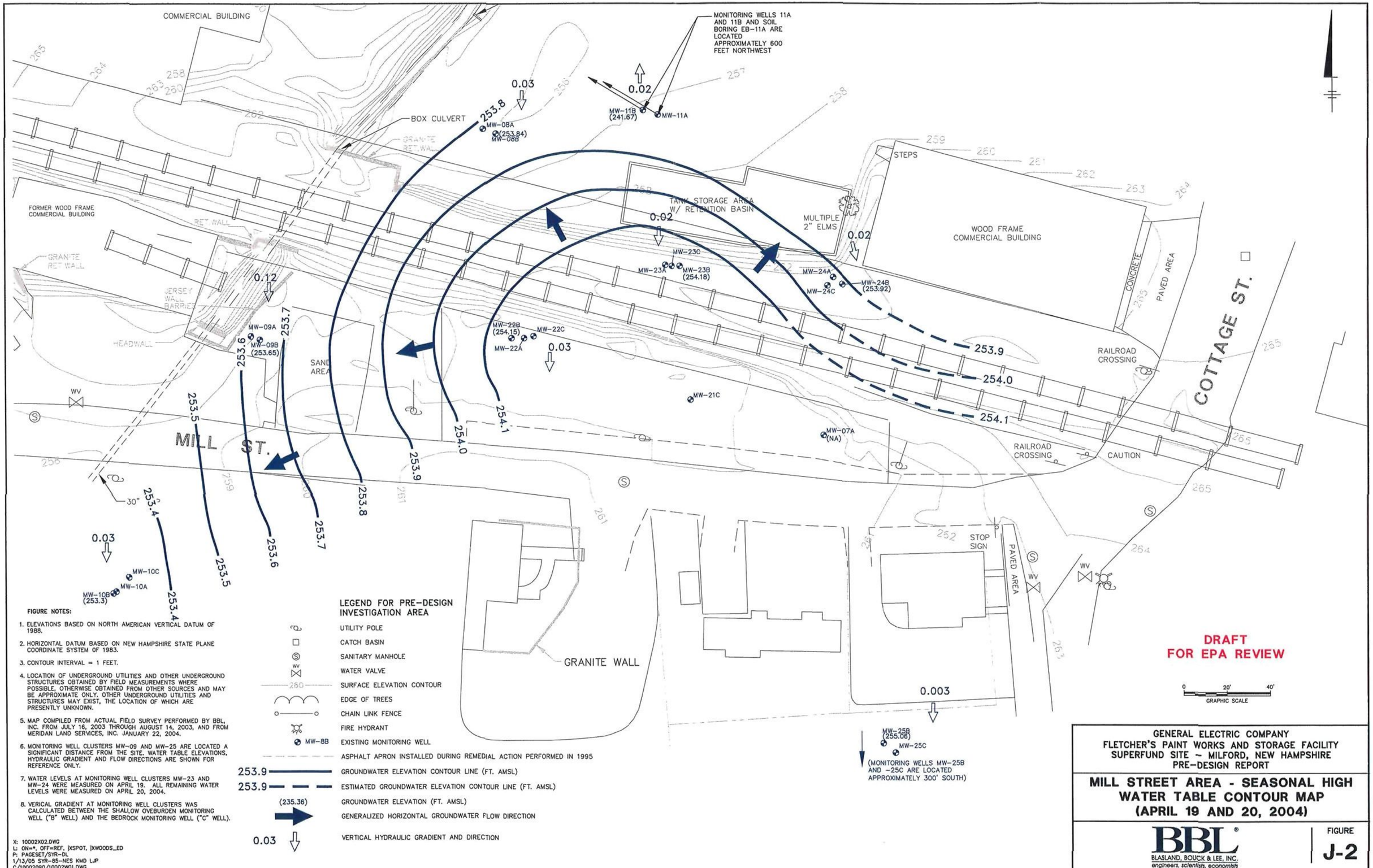


FIGURE NOTES:

1. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
2. HORIZONTAL DATUM BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM OF 1983.
3. CONTOUR INTERVAL = 1 FEET.
4. LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES OBTAINED BY FIELD MEASUREMENTS WHERE POSSIBLE, OTHERWISE OBTAINED FROM OTHER SOURCES AND MAY BE APPROXIMATE ONLY. OTHER UNDERGROUND UTILITIES AND STRUCTURES MAY EXIST, THE LOCATION OF WHICH ARE PRESENTLY UNKNOWN.
5. MAP COMPILED FROM ACTUAL FIELD SURVEY PERFORMED BY BBL, INC. FROM JULY 16, 2003 THROUGH AUGUST 14, 2003, AND FROM MERIDAN LAND SERVICES, INC. JANUARY 22, 2004.
6. MONITORING WELL CLUSTERS MW-09 AND MW-25 ARE LOCATED A SIGNIFICANT DISTANCE FROM THE SITE. WATER TABLE ELEVATIONS, HYDRAULIC GRADIENT AND FLOW DIRECTIONS ARE SHOWN FOR REFERENCE ONLY.
7. WATER LEVELS AT MONITORING WELL CLUSTERS MW-23 AND MW-24 WERE MEASURED ON APRIL 19. ALL REMAINING WATER LEVELS WERE MEASURED ON APRIL 20, 2004.
8. VERICAL GRADIENT AT MONITORING WELL CLUSTERS WAS CALCULATED BETWEEN THE SHALLOW OVEBURDEN MONITORING WELL ("B" WELL) AND THE BEDROCK MONITORING WELL ("C" WELL).

LEGEND FOR PRE-DESIGN INVESTIGATION AREA

	UTILITY POLE
	CATCH BASIN
S	SANITARY MANHOLE
WV	WATER VALVE
260	SURFACE ELEVATION CONTOUR
	EDGE OF TREES
	CHAIN LINK FENCE
	FIRE HYDRANT
MW-8B	EXISTING MONITORING WELL
	ASPHALT APRON INSTALLED DURING REMEDIAL ACTION PERFORMED IN 1995
253.9	GROUNDWATER ELEVATION CONTOUR LINE (FT. AMSL)
253.9	ESTIMATED GROUNDWATER ELEVATION CONTOUR LINE (FT. AMSL)
(235.36)	GROUNDWATER ELEVATION (FT. AMSL)
	GENERALIZED HORIZONTAL GROUNDWATER FLOW DIRECTION
0.03	VERTICAL HYDRAULIC GRADIENT AND DIRECTION

X: 10002X02.DWG
L: ON=*, OFF=REF, |XSPOT, |XWOODS_ED
P: PAGESET/SYR-DL
1/13/05 SYR-85-NES KMD L.P
C/10002090/10002W01.DWG

GENERAL ELECTRIC COMPANY
FLETCHER'S PAINT WORKS AND STORAGE FACILITY
SUPERFUND SITE ~ MILFORD, NEW HAMPSHIRE
PRE-DESIGN REPORT

MILL STREET AREA - SEASONAL HIGH WATER TABLE CONTOUR MAP (APRIL 19 AND 20, 2004)

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE
J-2

Draft for EPA Review

Monitoring Well Soil Geotechnical Data

BBL®

BLASLAND, BOUCK & LEE, INC.

engineers, scientists, economists

Draft for EPA Review

Elm Street Area Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	18.0-19.0
Project No.	2004-042-01	Sample No.	ESMW26B
Lab ID	2004-042-01-03	Visual Description	**DARK BROWN SANDY SILT** (MInus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	733	717.8
Temperature, T (°Celsius)	24.2	25.0
Weight of Pycnometer + Water (gm)	685.14	670.09
Tare Number	2493	846
Weight of Tare + Dry Soil (gm)	175.26	178.48
Weight of Tare (gm)	97.37	101.12
Weight of Dry Soil (gm)	77.89	77.36
Specific Gravity of Soil @ T	2.594	2.609
Specific Gravity of Water @ T	0.9973	0.9971
Conversion Factor for Temperature T	0.9990	0.9988
Specific Gravity @ 20° Celsius	2.596	2.612

Average Specific Gravity @ 20° Celsius	2.60

Tested By TO *Date* 02/10/04 *Checked By* Jcm *Date* 2-17-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W350.xls\Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	18.0-19.0
Project No.	2004-042-01	Sample No.	ESMW26B
Lab ID No.	2004-042-01-03		
		Specific Gravity	2.60 Measured

MOISTURE CONTENT:

Tare Number	2273
Wt. of Tare & WS (gm.)	75.64
Wt. of Tare & DS (gm.)	58.48
Wt. of Tare (gm.)	8.10
Wt. of Water (gm.)	17.16
Wt. of DS (gm.)	50.38
Moisture Content (%)	**34.1**

SPECIMEN:

Wt. of Tube & WS (gm.)	407.00
Wt. of Tube (gm.)	130.01
Wt. of WS (gm.)	276.99
Length 1 (in.)	5.972
Length 2 (in.)	5.976
Length 3 (in.)	5.974
Top Diameter (in.)	1.441
Middle Diameter (in.)	1.439
Bottom Diameter (in.)	1.441
Average Length (in.)	5.97
Average Area (in.^{2})	1.63
Sample Volume (cm^3)	159.43
Unit Wet Wt. (gm./ cm^3)	1.74
Unit Wet Wt. (pcf)	108.5
Unit Dry Wt. (pcf)	80.9
Unit Dry Wt. (gm./ cm^3)	1.30
Void Ratio, e	1.01
Porosity, n	**0.50**
Pore Volume (cm^3)	80.0

Tested By: TO Date: 02/10/04 Checked By: JCM Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W411.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	15.5-16.0
Project No.	2004-042-01	Sample No.	ESMW27B
Lab ID	2004-042-01-23	Visual Description	**BROWN SAND**
			(Minus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	713.8	701.2
Temperature, T (°Celsius)	25.1	24.7
Weight of Pycnometer + Water (gm)	685.03	670.13
Tare Number	532	665
Weight of Tare + Dry Soil (gm)	146.36	148.63
Weight of Tare (gm)	99.6	98.78
Weight of Dry Soil (gm)	46.76	49.85
Specific Gravity of Soil @ T	2.600	2.654
Specific Gravity of Water @ T	0.9970	0.9972
Conversion Factor for Temperature T	0.9988	0.9989
Specific Gravity @ 20° Celsius	2.603	2.657

Average Specific Gravity @ 20° Celsius	2.63

Tested By TO *Date* 02/19/04 *Checked By* Jm *Date* 2-20-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W403.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	15.5-16.0
Project No.	2004-042-01	Sample No.	ESMW27B
Lab ID No.	2004-042-01-23		
		Specific Gravity	2.63 Measured

MOISTURE CONTENT:

Tare Number	282
Wt. of Tare & WS (gm.)	43.45
Wt. of Tare & DS (gm.)	41.58
Wt. of Tare (gm.)	8.13
Wt. of Water (gm.)	1.87
Wt. of DS (gm.)	33.45
Moisture Content (%)	**5.6**

SPECIMEN:

Wt. of Tube & WS (gm.)	401.50
Wt. of Tube (gm.)	129.69
Wt. of WS (gm.)	271.81
Length 1 (in.)	5.382
Length 2 (in.)	5.382
Length 3 (in.)	5.462
Top Diameter (in.)	1.414
Middle Diameter (in.)	1.426
Bottom Diameter (in.)	1.423
Average Length (in.)	5.41
Average Area (in.^{2})	1.59
Sample Volume (cm^3)	140.52
Unit Wet Wt. (gm./ cm^3)	1.93
Unit Wet Wt. (pcf)	120.7
Unit Dry Wt. (pcf)	114.4
Unit Dry Wt. (gm./ cm^3)	1.83
Void Ratio, e	0.44
Porosity, n	**0.30**
Pore Volume (cm^3)	42.6

Tested By: TO Date: 02/12/04 Checked By: JMO Date: 2/20/04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W431.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	10.5-11.5
Project No.	2004-042-01	Sample No.	ESMW28B
Lab ID	2004-042-01-04	Visual Description	**BROWN SAND**
			(MInus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	734.7	719.4
Temperature, T (°Celsius)	24.0	24.2
Weight of Pycnometer + Water (gm)	685.16	670.19
Tare Number	698	661
Weight of Tare + Dry Soil (gm)	181	178.52
Weight of Tare (gm)	101.23	99.62
Weight of Dry Soil (gm)	79.77	78.90
Specific Gravity of Soil @ T	2.639	2.657
Specific Gravity of Water @ T	0.9973	0.9973
Conversion Factor for Temperature T	0.9991	0.9990
Specific Gravity @ 20° Celsius	2.641	2.660

Average Specific Gravity @ 20° Celsius	2.65

Tested By TO *Date* 02/13/04 *Checked By* Jcm *Date* 2-17-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\Excel\Printq\[W351.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	10.5-11.5
Project No.	2004-042-01	Sample No.	ESMW28B
Lab ID No.	2004-042-01-04		
		Specific Gravity	2.65 Measured

MOISTURE CONTENT:

Tare Number	2389
Wt. of Tare & WS (gm.)	76.12
Wt. of Tare & DS (gm.)	69.46
Wt. of Tare (gm.)	8.10
Wt. of Water (gm.)	6.66
Wt. of DS (gm.)	61.36
Moisture Content (%)	**10.9**

SPECIMEN:

Wt. of Tube & WS (gm.)	451.10
Wt. of Tube (gm.)	128.43
Wt. of WS (gm.)	322.67
Length 1 (in.)	5.978
Length 2 (in.)	5.974
Length 3 (in.)	5.981
Top Diameter (in.)	1.445
Middle Diameter (in.)	1.437
Bottom Diameter (in.)	1.419
Average Length (in.)	5.98
Average Area (in.^{2})	1.61
Sample Volume (cm^3)	158.05
Unit Wet Wt. (gm./ cm^3)	2.04
Unit Wet Wt. (pcf)	127.4
Unit Dry Wt. (pcf)	115.0
Unit Dry Wt. (gm./ cm^3)	1.84
Void Ratio, e	0.44
Porosity, n	**0.31**
Pore Volume (cm^3)	48.2

Tested By: TO Date: 02/10/04 Checked By: Jcm Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W412.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	17.5-18.0
Project No.	2004-042-01	Sample No.	ESMW29B
Lab ID	2004-042-01-24	Visual Description	**DARK BROWN SILT**
			(Minus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	718.4	704.1
Temperature, T (°Celsius)	24.3	24.5
Weight of Pycnometer + Water (gm)	685.13	670.16
Tare Number	2493	863
Weight of Tare + Dry Soil (gm)	154.84	161.62
Weight of Tare (gm)	97.45	103.65
Weight of Dry Soil (gm)	57.39	57.97
Specific Gravity of Soil @ T	2.380	2.413
Specific Gravity of Water @ T	0.9973	0.9972
Conversion Factor for Temperature T	0.9990	0.9990
Specific Gravity @ 20° Celsius	2.382	2.415

Average Specific Gravity @ 20° Celsius	2.40

Tested By TO *Date* 02/19/04 *Checked By* Jm *Date* 2-20-04

DCN: CT-S5 Date 9/24/03 Revision: 9 C:\MSOFFICE\EXCEL\PrintQ\W404.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	17.5-18.0
Project No.	2004-042-01	Sample No.	ESMW29B
Lab ID No.	2004-042-01-24		
		Specific Gravity	2.40 Measured

MOISTURE CONTENT:

Tare Number	2314
Wt. of Tare & WS (gm.)	35.95
Wt. of Tare & DS (gm.)	24.28
Wt. of Tare (gm.)	7.96
Wt. of Water (gm.)	11.67
Wt. of DS (gm.)	16.32
Moisture Content (%)	**71.5**

SPECIMEN:

Wt. of Tube & WS (gm.)	333.61
Wt. of Tube (gm.)	132.00
Wt. of WS (gm.)	201.61
Length 1 (in.)	5.365
Length 2 (in.)	5.379
Length 3 (in.)	5.065
Top Diameter (in.)	1.416
Middle Diameter (in.)	1.417
Bottom Diameter (in.)	1.411
Average Length (in.)	5.27
Average Area (in.^{2})	1.57
Sample Volume (cm^3)	135.69
Unit Wet Wt. (gm./ cm^3)	1.49
Unit Wet Wt. (pcf)	92.7
Unit Dry Wt. (pcf)	54.1
Unit Dry Wt. (gm./ cm^3)	0.87
Void Ratio, e	1.77
Porosity, n	**0.64**
Pore Volume (cm^3)	86.7

Tested By: TO Date: 02/12/04 Checked By: JMO Date: 2/20/04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W432.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

Draft for EPA Review

Mill Street Area Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	5.0-5.5
Project No.	2004-042-01	Sample No.	MSMW22A
Lab ID	2004-042-01-11	Visual Description	**BROWN SAND**
			(Minus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	739.1	721.6
Temperature, T (°Celsius)	24.8	25.1
Weight of Pycnometer + Water (gm)	685.06	670.08
Tare Number	665	869
Weight of Tare + Dry Soil (gm)	186.37	189.66
Weight of Tare (gm)	99	106.43
Weight of Dry Soil (gm)	87.37	83.23
Specific Gravity of Soil @ T	2.621	2.625
Specific Gravity of Water @ T	0.9971	0.9970
Conversion Factor for Temperature T	0.9989	0.9988
Specific Gravity @ 20° Celsius	2.624	2.628

Average Specific Gravity @ 20° Celsius	2.63

Tested By TO *Date* 02/16/04 *Checked By* Jcm *Date* 2-19-04

DCN: CT-S5 Date 9/24/03 Revision: 9 C:\MSOFFICE\EXCEL\PrintQ\W374.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	5.0-5.5
Project No.	2004-042-01	Sample No.	MSMW22A
Lab ID No.	2004-042-01-11		
		Specific Gravity	2.63 Measured

MOISTURE CONTENT:

Tare Number	2279
Wt. of Tare & WS (gm.)	66.05
Wt. of Tare & DS (gm.)	62.36
Wt. of Tare (gm.)	8.14
Wt. of Water (gm.)	3.69
Wt. of DS (gm.)	54.22
Moisture Content (%)	**6.8**

SPECIMEN:

Wt. of Tube & WS (gm.)	419.30
Wt. of Tube (gm.)	127.83
Wt. of WS (gm.)	291.47
Length 1 (in.)	5.986
Length 2 (in.)	5.972
Length 3 (in.)	5.971
Top Diameter (in.)	1.437
Middle Diameter (in.)	1.432
Bottom Diameter (in.)	1.443
Average Length (in.)	5.98
Average Area (in.^{2})	1.62
Sample Volume (cm^3)	158.86
Unit Wet Wt. (gm./ cm^3)	1.83
Unit Wet Wt. (pcf)	114.5
Unit Dry Wt. (pcf)	107.2
Unit Dry Wt. (gm./ cm^3)	1.72
Void Ratio, e	0.53
Porosity, n	**0.35**
Pore Volume (cm^3)	55.1

Tested By: TO Date: 02/11/04 Checked By: Jam Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W419.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	15.5-16.0
Project No.	2004-042-01	Sample No.	MSMW22A
Lab ID	2004-042-01-12	Visual Description	**BROWN SAND**
			(MInus No.4 sieve material, airdried)

Replicate Number		**1**		**2**
Pycnometer ID	G	922	G	1004
Weight of Pycnometer + Soil + Water (gm)		744.2		728.6
Temperature, T (°Celsius)		24.6		25.4
Weight of Pycnometer + Water (gm)		685.09		670.04
Tare Number		632		1301
Weight of Tare + Dry Soil (gm)		189.24		194.86
Weight of Tare (gm)		94.08		100.88
Weight of Dry Soil (gm)		95.16		93.98
Specific Gravity of Soil @ T		2.640		2.653
Specific Gravity of Water @ T		0.9972		0.9970
Conversion Factor for Temperature T		0.9989		0.9987
Specific Gravity @ 20° Celsius		2.643		2.657

Average Specific Gravity @ 20° Celsius	2.65

Tested By TO *Date* 02/17/04 *Checked By* Jcm *Date* 2-19-04

DCN: CT-S5 Date 9/24/03 Revision: 9 C:\MSOFFICE\EXCEL\PrintQ\[W375.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	15.5-16.0
Project No.	2004-042-01	Sample No.	MSMW22A
Lab ID No.	2004-042-01-12		
		Specific Gravity	2.65 Measured

MOISTURE CONTENT:

Tare Number	A-7
Wt. of Tare & WS (gm.)	66.62
Wt. of Tare & DS (gm.)	57.11
Wt. of Tare (gm.)	8.32
Wt. of Water (gm.)	9.51
Wt. of DS (gm.)	48.79
Moisture Content (%)	**19.5**

SPECIMEN:

Wt. of Tube & WS (gm.)	421.70
Wt. of Tube (gm.)	132.34
Wt. of WS (gm.)	289.36
Length 1 (in.)	5.298
Length 2 (in.)	5.304
Length 3 (in.)	5.290
Top Diameter (in.)	1.412
Middle Diameter (in.)	1.419
Bottom Diameter (in.)	1.427
Average Length (in.)	5.30
Average Area (in.^{2})	1.58
Sample Volume (cm^3)	137.28
Unit Wet Wt. (gm./ cm^3)	2.11
Unit Wet Wt. (pcf)	131.6
Unit Dry Wt. (pcf)	110.1
Unit Dry Wt. (gm./ cm^3)	1.76
Void Ratio, e	0.50
Porosity, n	**0.33**
Pore Volume (cm^3)	45.9

Tested By: TO Date: 02/11/04 Checked By: Jem Date: 2.20.04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W420.xls]Sheet1

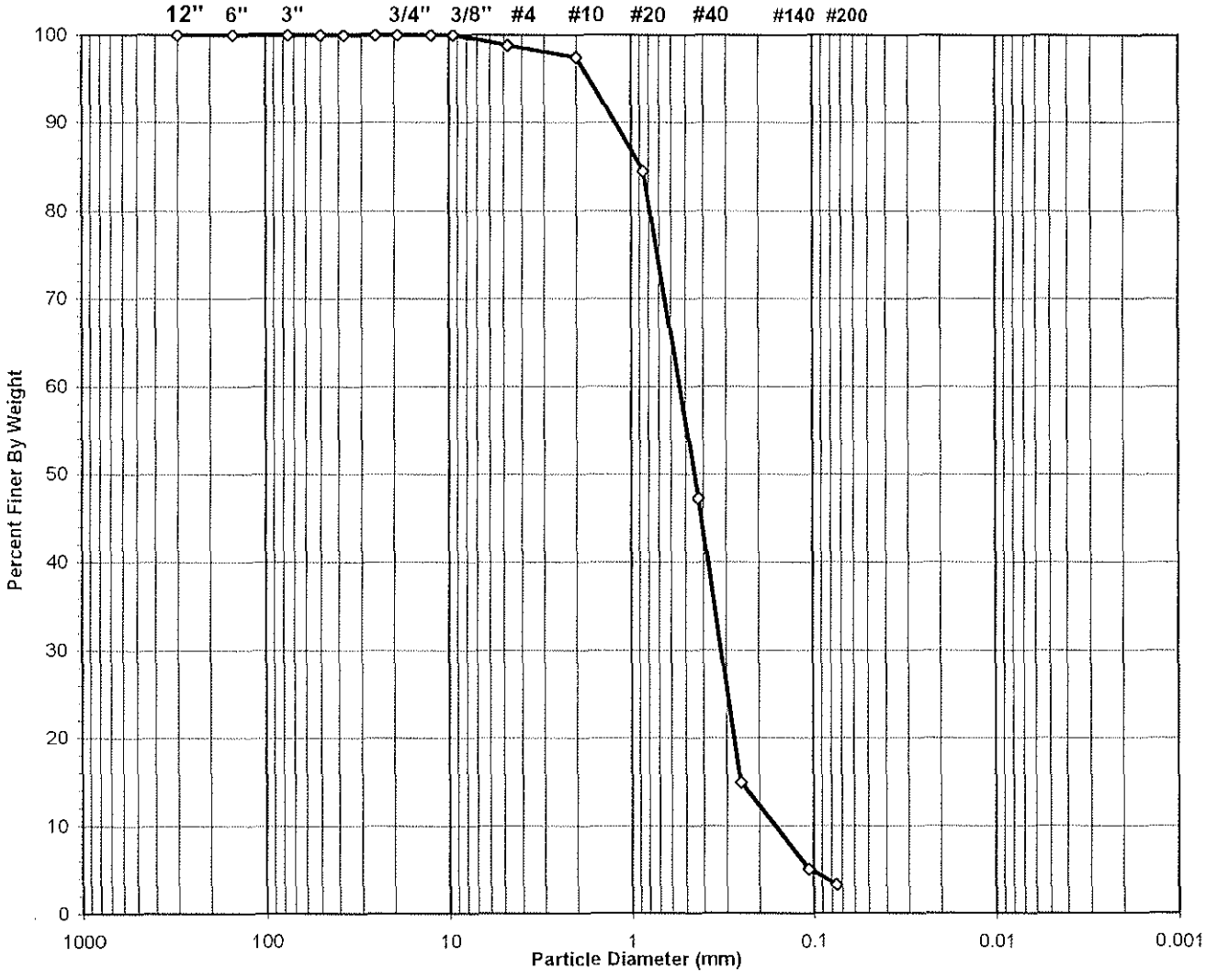
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	15.5-16.0
Project No.	2004-042-01	Sample No.	MSMW22A
Lab ID	2004-042-01-12	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol	***sp, ASSUMED***	**D60 =**	**0.5**	**CC =**	**1.2**
USCS Classification	***POORLY GRADED SAND***	**D30 =**	**0.3**	**CU =**	**3.3**
		D10 =	**0.2**		

Tested By JP Date 02/20/04 Checked By Jm Date 2-20-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 *C:\MSOFFICE\EXCEL\PrintQ\[W439.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	15.5-16.0
Project No.	2004-042-01	Sample No.	MSMW22A
Lab ID	2004-042-01-12	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	568	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	276.16	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	276.04	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	84.52	Weight of Tare (gm)	NA
Weight of Water (gm)	0.12	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	191.52	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.1**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	191.52
Dry Weight - 3/4" Sample (gm)	185.2	Weight of minus #200 material (gm)	6.28
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	185.24
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	0.00	0.00	0.00	100.00	**100.00**
3/8"	9.50	0.00	0.00	0.00	100.00	**100.00**
#4	4.75	2.24	1.17	1.17	98.83	**98.83**
#10	2.00	2.59	1.35	2.52	97.48	**97.48**
#20	0.850	24.82	12.96	15.48	84.52	**84.52**
#40	0.425	71.30	37.23	52.71	47.29	**47.29**
#60	0.250	62.06	32.40	85.11	14.89	**14.89**
#140	0.106	18.77	9.80	94.91	5.09	**5.09**
#200	0.075	3.46	1.81	96.72	3.28	**3.28**
Pan	-	6.28	3.28	100.00	-	-

Tested By JP Date 02/20/04 Checked By Jem Date 2.20.04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\W439.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	4.5-5.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-18	Visual Description	**BROWN SAND**
			(MInus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	732.3	720.9
Temperature, T (°Celsius)	25.4	25.3
Weight of Pycnometer + Water (gm)	684.99	670.05
Tare Number	677	1343
Weight of Tare + Dry Soil (gm)	175.77	179.51
Weight of Tare (gm)	99.39	97.66
Weight of Dry Soil (gm)	76.38	81.85
Specific Gravity of Soil @ T	2.628	2.640
Specific Gravity of Water @ T	0.9970	0.9970
Conversion Factor for Temperature T	0.9987	0.9988
Specific Gravity @ 20° Celsius	2.631	2.643

Average Specific Gravity @ 20° Celsius	2.64

Tested By TO *Date* 02/19/04 *Checked By* Jcm *Date* 2-20-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W398.xls\Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	4.5-5.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID No.	2004-042-01-18		
		Specific Gravity	2.64 Measured

MOISTURE CONTENT:

Tare Number	2332
Wt. of Tare & WS (gm.)	57.11
Wt. of Tare & DS (gm.)	55.11
Wt. of Tare (gm.)	8.04
Wt. of Water (gm.)	2.00
Wt. of DS (gm.)	47.07
Moisture Content (%)	**4.2**

SPECIMEN:

Wt. of Tube & WS (gm.)	386.92
Wt. of Tube (gm.)	131.55
Wt. of WS (gm.)	255.37
Length 1 (in.)	5.457
Length 2 (in.)	5.459
Length 3 (in.)	5.476
Top Diameter (in.)	1.412
Middle Diameter (in.)	1.409
Bottom Diameter (in.)	1.422
Average Length (in.)	5.46
Average Area (in.^{2})	1.57
Sample Volume (cm^3)	140.66
Unit Wet Wt. (gm./ cm^3)	1.82
Unit Wet Wt. (pcf)	113.3
Unit Dry Wt. (pcf)	108.7
Unit Dry Wt. (gm./ cm^3)	1.74
Void Ratio, e	0.52
Porosity, n	**0.34**
Pore Volume (cm^3)	47.9

Tested By: TO Date: 02/11/04 Checked By: JMO Date: 2/20/04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W426.xls]Sheet1

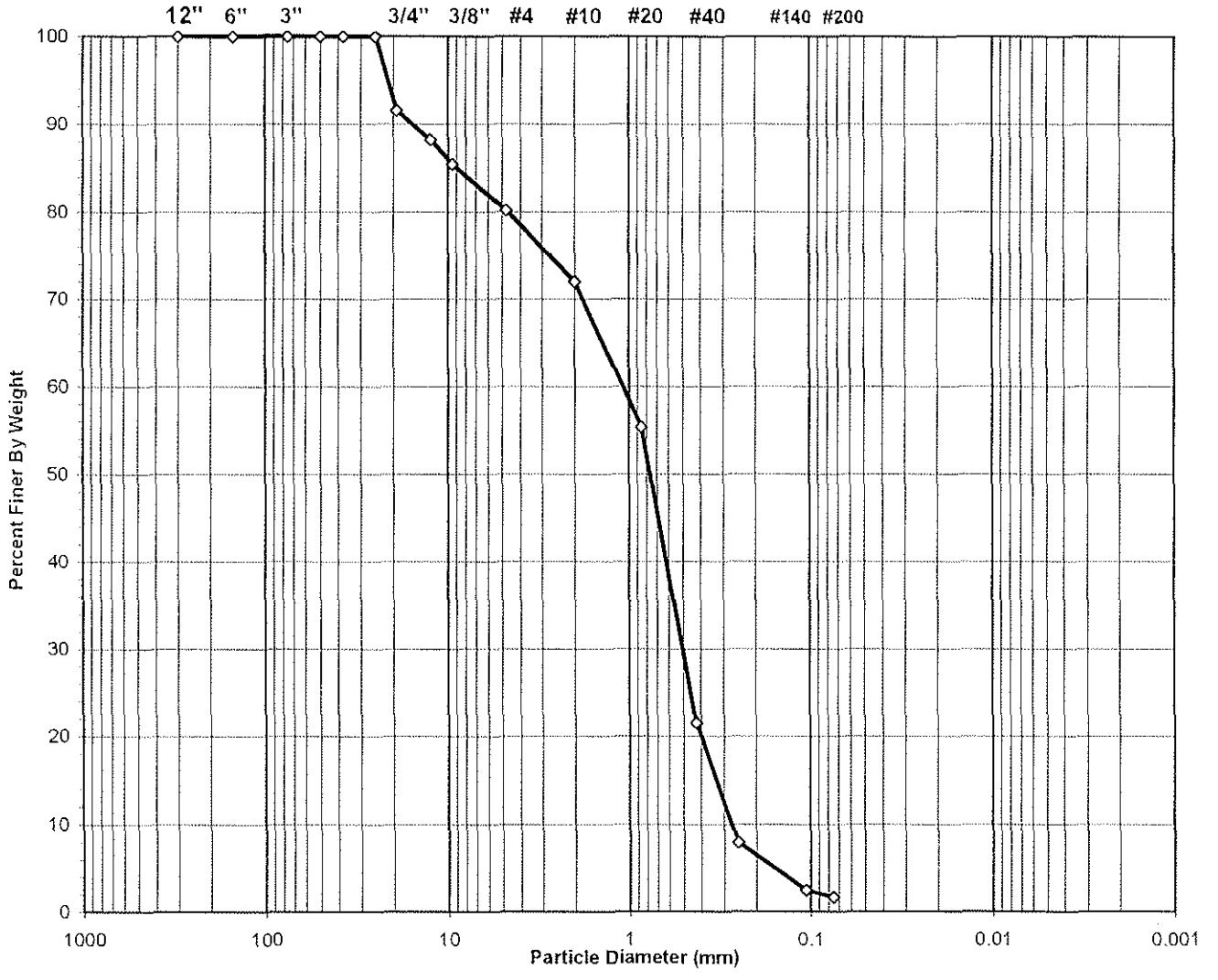
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	4.5-5.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-18	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	gravel	sand	silt and clay



USCS Symbol	*sp, ASSUMED*	D60 =	1.1	CC =	0.9
USCS Classification	*POORLY GRADED SAND WITH GRAVEL*	D30 =	0.5	CU =	4.0
		D10 =	0.3		

Tested By TO Date 02/24/04 Checked By Date 2/25/04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 *C:\MSOFFICE\EXCEL\PrintQ\[W488.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	4.5-5.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-18	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	1321	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	297.56	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	297.29	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	100.04	Weight of Tare (gm)	NA
Weight of Water (gm)	0.27	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	197.25	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.1**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	197.25
Dry Weight - 3/4" Sample (gm)	177.4	Weight of minus #200 material (gm)	3.23
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	194.02
Dry Weight + 3/4" Sample (gm)	16.62		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	16.62	8.43	8.43	91.57	**91.57**
1/2"	12.50	6.62	3.36	11.78	88.22	**88.22**
3/8"	9.50	5.52	2.80	14.58	85.42	**85.42**
#4	4.75	10.26	5.20	19.78	80.22	**80.22**
#10	2.00	16.19	8.21	27.99	72.01	**72.01**
#20	0.850	32.95	16.70	44.69	55.31	**55.31**
#40	0.425	66.57	33.75	78.44	21.56	**21.56**
#60	0.250	26.88	13.63	92.07	7.93	**7.93**
#140	0.106	10.82	5.49	97.56	2.44	**2.44**
#200	0.075	1.59	0.81	98.36	1.64	**1.64**
Pan	-	3.23	1.64	100.00	-	-

Tested By TO Date 02/24/04 Checked By Date 2/25/04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\W488.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	6.5-7.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-19	Visual Description	**BROWN SAND**
			(MInus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	747.6	732.9
Temperature, T (°Celsius)	25.8	25.9
Weight of Pycnometer + Water (gm)	684.93	669.98
Tare Number	2349	503
Weight of Tare + Dry Soil (gm)	198.27	197.71
Weight of Tare (gm)	97.73	96.9
Weight of Dry Soil (gm)	100.54	100.81
Specific Gravity of Soil @ T	2.655	2.661
Specific Gravity of Water @ T	0.9969	0.9968
Conversion Factor for Temperature T	0.9986	0.9986
Specific Gravity @ 20° Celsius	2.658	2.665

Average Specific Gravity @ 20° Celsius	2.66

Tested By TO *Date* 02/19/04 *Checked By* Jm *Date* 2-20-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W399.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	6.5-7.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID No.	2004-042-01-19		
		Specific Gravity	2.66 Measured

MOISTURE CONTENT:

Tare Number	2281
Wt. of Tare & WS (gm.)	53.13
Wt. of Tare & DS (gm.)	45.03
Wt. of Tare (gm.)	7.87
Wt. of Water (gm.)	8.10
Wt. of DS (gm.)	37.16
Moisture Content (%)	**21.8**

SPECIMEN:

Wt. of Tube & WS (gm.)	431.90
Wt. of Tube (gm.)	132.21
Wt. of WS (gm.)	299.69
Length 1 (in.)	5.681
Length 2 (in.)	5.703
Length 3 (in.)	5.684
Top Diameter (in.)	1.421
Middle Diameter (in.)	1.422
Bottom Diameter (in.)	1.417
Average Length (in.)	5.69
Average Area (in.^{2})	1.58
Sample Volume (cm^3)	147.61
Unit Wet Wt. (gm./ cm^3)	2.03
Unit Wet Wt. (pcf)	126.7
Unit Dry Wt. (pcf)	104.1
Unit Dry Wt. (gm./ cm^3)	1.67
Void Ratio, *e*	0.60
Porosity, n	**0.37**
Pore Volume (cm^3)	55.1

Tested By: TO Date: 02/11/04 Checked By: JMO Date: 2/20/04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W427.xls]Sheet1

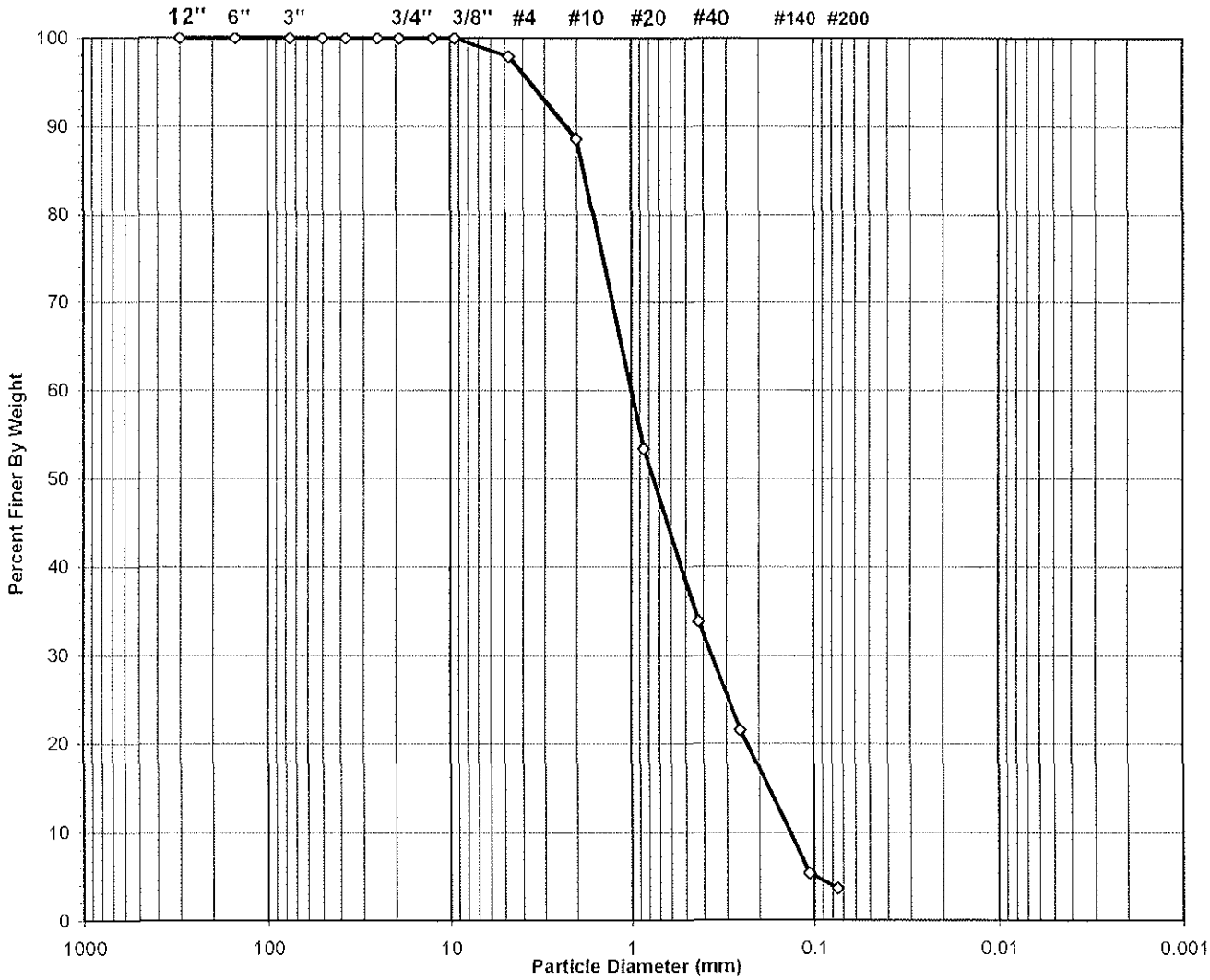
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	6.5-7.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-19	Soil Color	BROWN

	SIEVE ANALYSIS		HYDROMETER
USCS	gravel	sand	silt and clay



USCS Symbol	*sp, ASSUMED*	D60 =	1.0	CC =	1.0
USCS Classification	*POORLY GRADED SAND*	D30 =	0.4	CU =	7.4
		D10 =	0.1		

Tested By JP Date 02/25/04 Checked By Jam Date 2-26-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 C:\MSOFFICE\Excel\Printq\W497.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	6.5-7.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-19	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	1092	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	326.00	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	325.75	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	103.41	Weight of Tare (gm)	NA
Weight of Water (gm)	0.25	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	222.34	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.1**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	222.34
Dry Weight - 3/4" Sample (gm)	214.1	Weight of minus #200 material (gm)	8.20
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	214.14
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	0.00	0.00	0.00	100.00	**100.00**
3/8"	9.50	0.00	0.00	0.00	100.00	**100.00**
#4	4.75	4.59	2.06	2.06	97.94	**97.94**
#10	2.00	20.70	9.31	11.37	88.63	**88.63**
#20	0.850	78.39	35.26	46.63	53.37	**53.37**
#40	0.425	43.48	19.56	66.19	33.81	**33.81**
#60	0.250	27.33	12.29	78.48	21.52	**21.52**
#140	0.106	35.91	16.15	94.63	5.37	**5.37**
#200	0.075	3.74	1.68	96.31	3.69	**3.69**
Pan	-	8.20	3.69	100.00	-	-

Tested By JP Date 02/25/04 Checked By Jem Date 2.26.04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\Excel\Printq\[W497.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	8.5-9.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-20	Visual Description	**BROWN SAND**
			(MInus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	735.6	721.4
Temperature, T (°Celsius)	25.6	26.4
Weight of Pycnometer + Water (gm)	684.96	669.91
Tare Number	1614	649
Weight of Tare + Dry Soil (gm)	180.81	184.2
Weight of Tare (gm)	98.84	101.13
Weight of Dry Soil (gm)	81.97	83.07
Specific Gravity of Soil @ T	2.616	2.630
Specific Gravity of Water @ T	0.9969	0.9967
Conversion Factor for Temperature T	0.9987	0.9985
Specific Gravity @ 20° Celsius	2.620	2.635

Average Specific Gravity @ 20° Celsius	2.63

Tested By TO *Date* 02/19/04 *Checked By* Jm *Date* 2-20-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W400.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	8.5-9.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID No.	2004-042-01-20		
		Specific Gravity	2.63 Measured

MOISTURE CONTENT:

Tare Number	2334
Wt. of Tare & WS (gm.)	52.44
Wt. of Tare & DS (gm.)	45.51
Wt. of Tare (gm.)	8.26
Wt. of Water (gm.)	6.93
Wt. of DS (gm.)	37.25
Moisture Content (%)	**18.6**

SPECIMEN:

Wt. of Tube & WS (gm.)	377.85
Wt. of Tube (gm.)	131.59
Wt. of WS (gm.)	246.26
Length 1 (in.)	4.663
Length 2 (in.)	4.513
Length 3 (in.)	4.579
Top Diameter (in.)	1.425
Middle Diameter (in.)	1.424
Bottom Diameter (in.)	1.431
Average Length (in.)	4.58
Average Area (in.^{2})	1.60
Sample Volume (cm^3)	120.08
Unit Wet Wt. (gm./ cm^3)	2.05
Unit Wet Wt. (pcf)	128.0
Unit Dry Wt. (pcf)	107.9
Unit Dry Wt. (gm./ cm^3)	1.73
Void Ratio, e	0.52
Porosity, n	**0.34**
Pore Volume (cm^3)	41.1

Tested By: TO Date: 02/11/04 Checked By: Jcm Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\Excel\Printq\[W428.xls]Sheet1

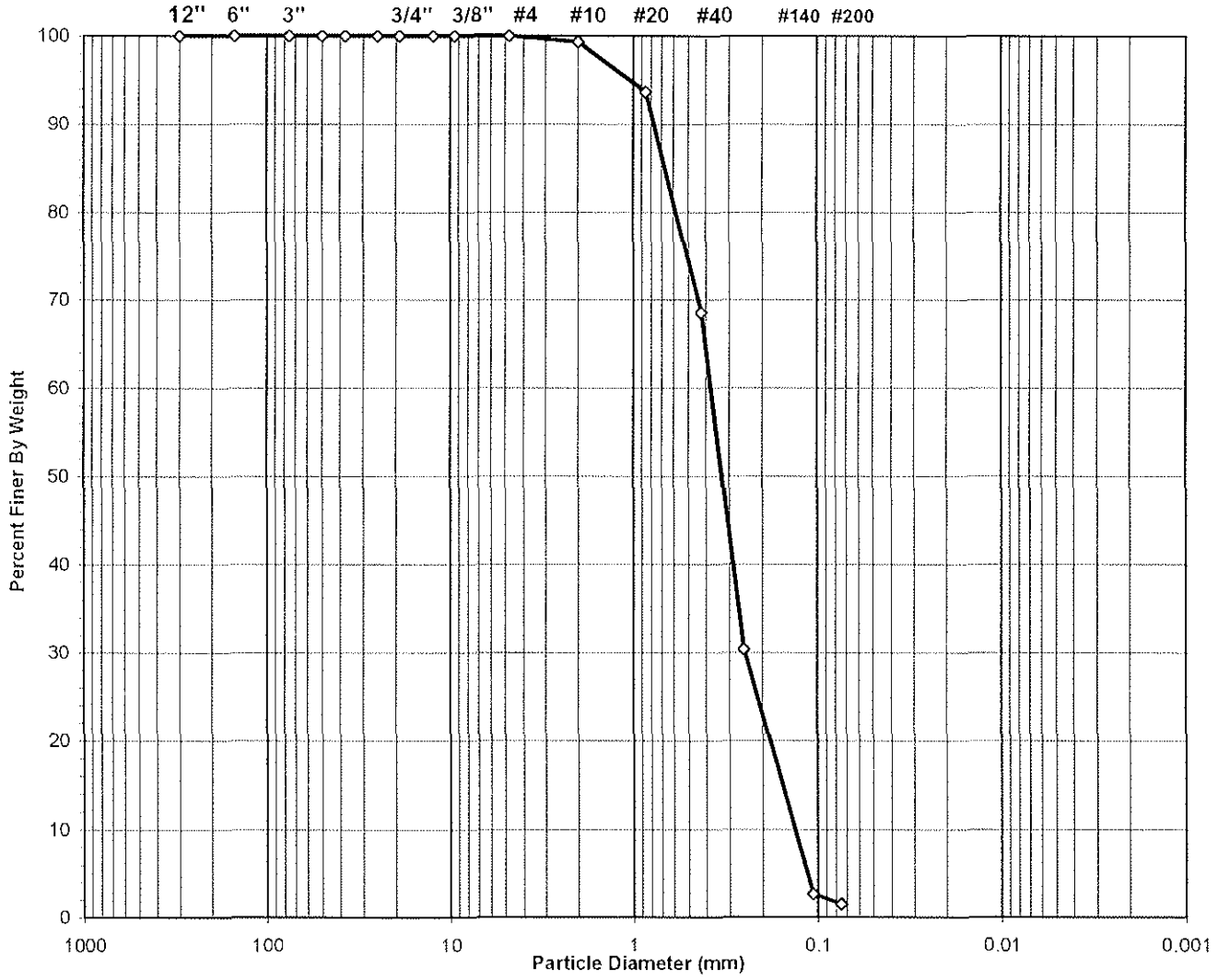
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	8.5-9.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-20	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol	*sp, ASSUMED*	**D60 =**	**0.4**	**CC =**	**1.2**
USCS Classification	*POORLY GRADED SAND*	**D30 =**	**0.2**	**CU =**	**2.8**
		D10 =	**0.1**		

Tested By JP Date 02/25/04 Checked By Jcm Date 2-26-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 *C:\MSOFFICE\Excel\Printq\[W498.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	8.5-9.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-20	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	679	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	264.12	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	264.03	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	99.76	Weight of Tare (gm)	NA
Weight of Water (gm)	0.09	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	164.27	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.1**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	164.27
Dry Weight - 3/4" Sample (gm)	161.8	Weight of minus #200 material (gm)	2.46
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	161.81
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	0.00	0.00	0.00	100.00	**100.00**
3/8"	9.50	0.00	0.00	0.00	100.00	**100.00**
#4	4.75	0.00	0.00	0.00	100.00	**100.00**
#10	2.00	1.13	0.69	0.69	99.31	**99.31**
#20	0.850	9.25	5.63	6.32	93.68	**93.68**
#40	0.425	41.25	25.11	31.43	68.57	**68.57**
#60	0.250	62.69	38.16	69.59	30.41	**30.41**
#140	0.106	45.63	27.78	97.37	2.63	**2.63**
#200	0.075	1.86	1.13	98.50	1.50	**1.50**
Pan	-	2.46	1.50	100.00	-	-

Tested By JP Date 02/25/04 Checked By Jcm Date 2-26-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\Excel\Printq\[W498.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	13.0-13.5
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-21	Visual Description	**BROWN SAND**
			(Minus No.4 sieve material, airdried)

Replicate Number		**1**		**2**
Pycnometer ID	G	922	G	1004
Weight of Pycnometer + Soil + Water (gm)		730.9		716.1
Temperature, T (°Celsius)		24.7		24.6
Weight of Pycnometer + Water (gm)		685.08		670.14
Tare Number		658		673
Weight of Tare + Dry Soil (gm)		171.78		174.1
Weight of Tare (gm)		97.65		100.06
Weight of Dry Soil (gm)		74.13		74.04
Specific Gravity of Soil @ T		2.619		2.636
Specific Gravity of Water @ T		0.9972		0.9972
Conversion Factor for Temperature T		0.9989		0.9989
Specific Gravity @ 20° Celsius		2.622		2.639

Average Specific Gravity @ 20° Celsius	2.63

Tested By TO *Date* 02/19/04 *Checked By* Jem *Date* 2.20.04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W401.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	13.0-13.5
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID No.	2004-042-01-21		
		Specific Gravity	2.63 Measured

MOISTURE CONTENT:

Tare Number	2364
Wt. of Tare & WS (gm.)	48.42
Wt. of Tare & DS (gm.)	40.92
Wt. of Tare (gm.)	8.19
Wt. of Water (gm.)	7.50
Wt. of DS (gm.)	32.73
Moisture Content (%)	**22.9**

SPECIMEN:

Wt. of Tube & WS (gm.)	362.43
Wt. of Tube (gm.)	130.95
Wt. of WS (gm.)	231.48
Length 1 (in.)	4.486
Length 2 (in.)	4.340
Length 3 (in.)	4.347
Top Diameter (in.)	1.428
Middle Diameter (in.)	1.425
Bottom Diameter (in.)	1.424
Average Length (in.)	4.39
Average Area (in.^{2})	1.60
Sample Volume (cm^3)	114.83
Unit Wet Wt. (gm./ cm^3)	2.02
Unit Wet Wt. (pcf)	125.8
Unit Dry Wt. (pcf)	102.4
Unit Dry Wt. (gm./ cm^3)	1.64
Void Ratio, e	0.60
Porosity, n	**0.38**
Pore Volume (cm^3)	43.2

Tested By: TO Date: 02/11/04 Checked By: JMO Date: 2/20/04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W429.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

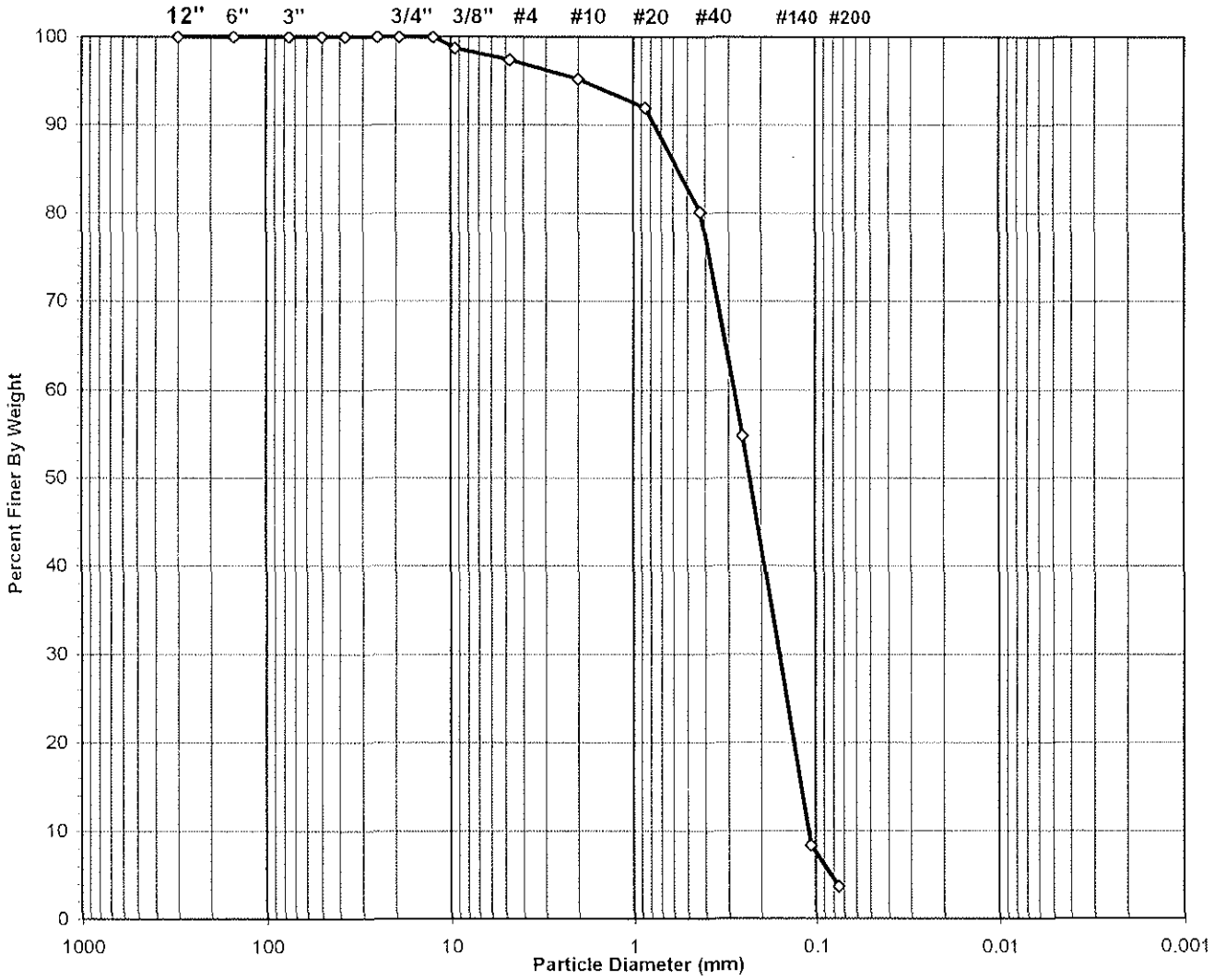
geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	13.0-13.5
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-21	Soil Color	**BROWN**

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol	*sp, ASSUMED*	**D60 =**	**0.3**	**CC =**	**0.8**
USCS Classification	*POORLY GRADED SAND*	**D30 =**	**0.2**	**CU =**	**2.6**
		D10 =	**0.1**		

Tested By JP Date 02/25/04 Checked By Jam Date 2-26-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\Excel\Printq\W499.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	13.0-13.5
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-21	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	515	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	250.04	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	249.92	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	97.69	Weight of Tare (gm)	NA
Weight of Water (gm)	0.12	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	152.23	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.1**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	152.23
Dry Weight - 3/4" Sample (gm)	146.7	Weight of minus #200 material (gm)	5.57
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	146.66
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	0.00	0.00	0.00	100.00	**100.00**
3/8"	9.50	1.91	1.25	1.25	98.75	**98.75**
#4	4.75	2.01	1.32	2.58	97.42	**97.42**
#10	2.00	3.37	2.21	4.79	95.21	**95.21**
#20	0.850	4.92	3.23	8.02	91.98	**91.98**
#40	0.425	18.09	11.88	19.90	80.10	**80.10**
#60	0.250	38.54	25.32	45.22	54.78	**54.78**
#140	0.106	70.73	46.46	91.68	8.32	**8.32**
#200	0.075	7.09	4.66	96.34	3.66	**3.66**
Pan	-	5.57	3.66	100.00	-	-

Tested By JP Date 02/25/04 Checked By Jcm Date 2-26-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\Excel\Printq\[W499.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	17.0-18.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-22	Visual Description	**BROWN SAND**
			(Minus No.4 sieve material, airdried)

Replicate Number		**1**		**2**
Pycnometer ID	G	922	G	1004
Weight of Pycnometer + Soil + Water (gm)		747.7		733.7
Temperature, T (°Celsius)		25.1		25.5
Weight of Pycnometer + Water (gm)		685.03		670.03
Tare Number		869		1301
Weight of Tare + Dry Soil (gm)		207.07		202.45
Weight of Tare (gm)		106.45		100.63
Weight of Dry Soil (gm)		100.62		101.82
Specific Gravity of Soil @ T		2.652		2.669
Specific Gravity of Water @ T		0.9970		0.9969
Conversion Factor for Temperature T		0.9988		0.9987
Specific Gravity @ 20° Celsius		2.655		2.672

Average Specific Gravity @ 20° Celsius	2.66

Tested By TO *Date* 02/19/04 *Checked By* Jm *Date* 2-20-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W402.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	17.0-18.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID No.	2004-042-01-22		
		Specific Gravity	2.66 Measured

MOISTURE CONTENT:

Tare Number	A-8
Wt. of Tare & WS (gm.)	68.11
Wt. of Tare & DS (gm.)	63.06
Wt. of Tare (gm.)	8.32
Wt. of Water (gm.)	5.05
Wt. of DS (gm.)	54.74
Moisture Content (%)	**9.2**

SPECIMEN:

Wt. of Tube & WS (gm.)	474.70
Wt. of Tube (gm.)	132.30
Wt. of WS (gm.)	342.40
Length 1 (in.)	5.695
Length 2 (in.)	5.599
Length 3 (in.)	5.521
Top Diameter (in.)	1.413
Middle Diameter (in.)	1.412
Bottom Diameter (in.)	1.413
Average Length (in.)	5.60
Average Area (in.^{2})	1.57
Sample Volume (cm^3)	143.85
Unit Wet Wt. (gm./ cm^3)	2.38
Unit Wet Wt. (pcf)	148.6
Unit Dry Wt. (pcf)	136.0
Unit Dry Wt. (gm./ cm^3)	2.18
Void Ratio, e	0.22
Porosity, n	**0.18**
Pore Volume (cm^3)	26.0

Tested By: TO Date: 02/11/04 Checked By: JMO Date: 2/20/04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W430.xls]Sheet1

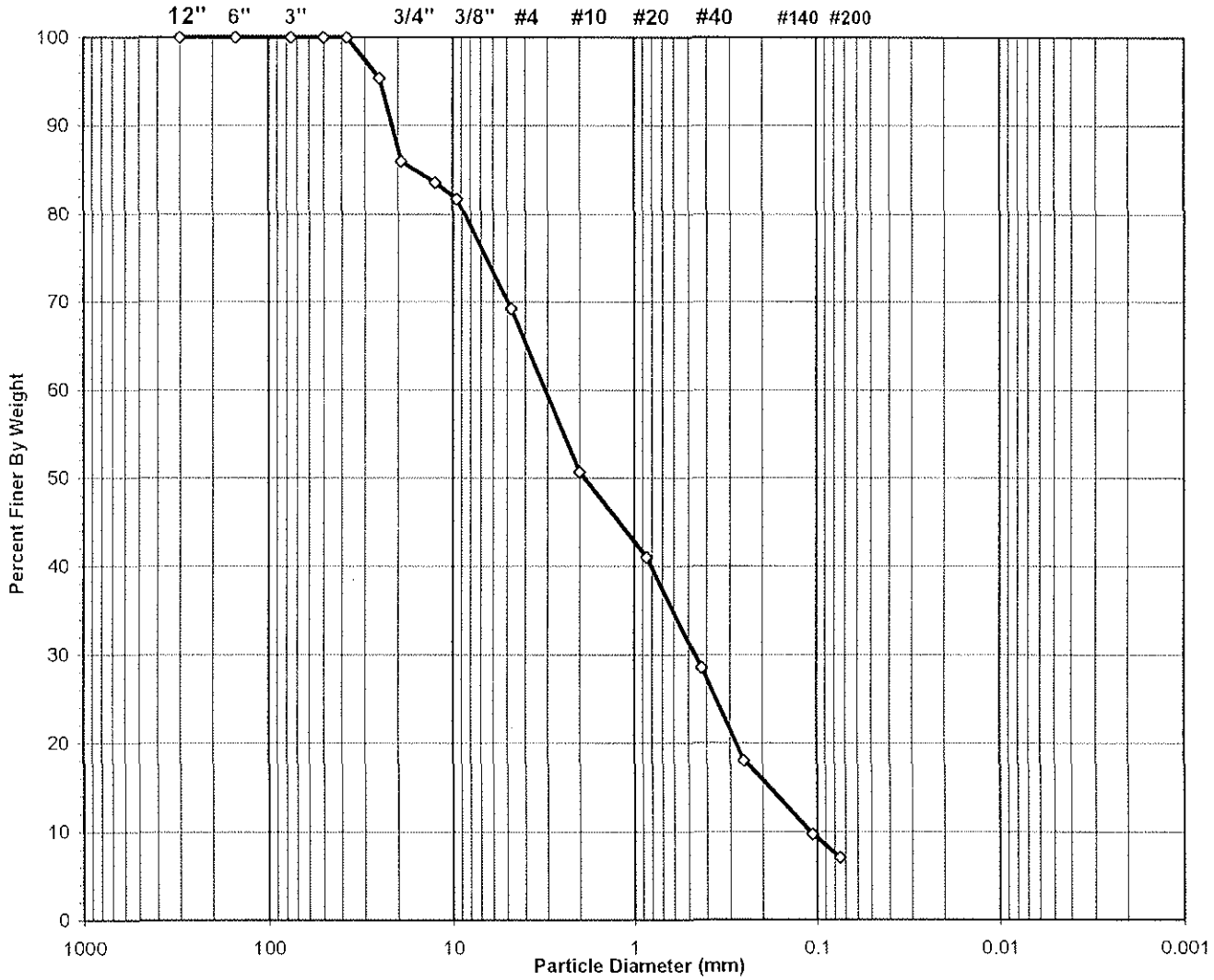
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	17.0-18.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-22	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol	*sp-sm, ASSUMED*	**D60 =**	**3.1**	**CC =**	**0.6**
USCS Classification	*POORLY GRADED SAND WITH SILT AND GRAVEL*	**D30 =**	**0.5**	**CU =**	**28.3**
		D10 =	**0.1**		

Tested By JP Date 02/25/04 Checked By Jom Date 2-26-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 C:\MSOFFICE\Excel\Printq\[W500.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	17.0-18.0
Project No.	2004-042-01	Sample No.	MSMW22B
Lab ID	2004-042-01-22	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	1619	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	653.30	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	652.50	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	95.71	Weight of Tare (gm)	NA
Weight of Water (gm)	0.80	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	556.79	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.1**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	556.79
Dry Weight - 3/4" Sample (gm)	439.2	Weight of minus #200 material (gm)	39.42
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	517.37
Dry Weight + 3/4" Sample (gm)	78.15		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	25.90	4.65	4.65	95.35	**95.35**
3/4"	19.0	52.25	9.38	14.04	85.96	**85.96**
1/2"	12.50	13.21	2.37	16.41	83.59	**83.59**
3/8"	9.50	10.46	1.88	18.29	81.71	**81.71**
#4	4.75	69.48	12.48	30.77	69.23	**69.23**
#10	2.00	103.56	18.60	49.37	50.63	**50.63**
#20	0.850	53.51	9.61	58.98	41.02	**41.02**
#40	0.425	69.51	12.48	71.46	28.54	**28.54**
#60	0.250	58.65	10.53	81.99	18.01	**18.01**
#140	0.106	46.14	8.29	90.28	9.72	**9.72**
#200	0.075	14.70	2.64	92.92	7.08	**7.08**
Pan	-	39.42	7.08	100.00	-	-

Tested By JP Date 02/25/04 Checked By Jcm Date 2-26-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\Excel\Printq\W500.xls\Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	9.5-10.0
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-13	Visual Description	**BROWN CLAYEY, SILTY SAND**
			(MInus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	751	733.4
Temperature, T (°Celsius)	25.5	25.9
Weight of Pycnometer + Water (gm)	684.97	669.98
Tare Number	532	846
Weight of Tare + Dry Soil (gm)	206.21	202.79
Weight of Tare (gm)	100.08	101.15
Weight of Dry Soil (gm)	106.13	101.64
Specific Gravity of Soil @ T	2.646	2.660
Specific Gravity of Water @ T	0.9969	0.9968
Conversion Factor for Temperature T	0.9987	0.9986
Specific Gravity @ 20° Celsius	2.650	2.663

Average Specific Gravity @ 20° Celsius	2.66

Tested By TO *Date* 02/17/04 *Checked By* JCM *Date* 2-19-04

DCN: CT-S5 Date 9/24/03 Revision: 9 C:\MSOFFICE\EXCEL\PrintQ\[W376.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	9.5-10.0
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID No.	2004-042-01-13		
		Specific Gravity	2.66 Measured

MOISTURE CONTENT:

Tare Number	252
Wt. of Tare & WS (gm.)	46.57
Wt. of Tare & DS (gm.)	42.38
Wt. of Tare (gm.)	8.29
Wt. of Water (gm.)	4.19
Wt. of DS (gm.)	34.09
Moisture Content (%)	**12.3**

SPECIMEN:

Wt. of Tube & WS (gm.)	452.20
Wt. of Tube (gm.)	131.83
Wt. of WS (gm.)	320.37
Length 1 (in.)	5.684
Length 2 (in.)	5.666
Length 3 (in.)	5.584
Top Diameter (in.)	1.425
Middle Diameter (in.)	1.423
Bottom Diameter (in.)	1.420
Average Length (in.)	5.64
Average Area (in.^{2})	1.59
Sample Volume (cm^3)	146.97
Unit Wet Wt. (gm./ cm^3)	2.18
Unit Wet Wt. (pcf)	136.1
Unit Dry Wt. (pcf)	121.2
Unit Dry Wt. (gm./ cm^3)	1.94
Void Ratio, e	0.37
Porosity, n	**0.27**
Pore Volume (cm^3)	39.7

Tested By: TO Date: 02/11/04 Checked By: Jom Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W421.xls]Sheet1

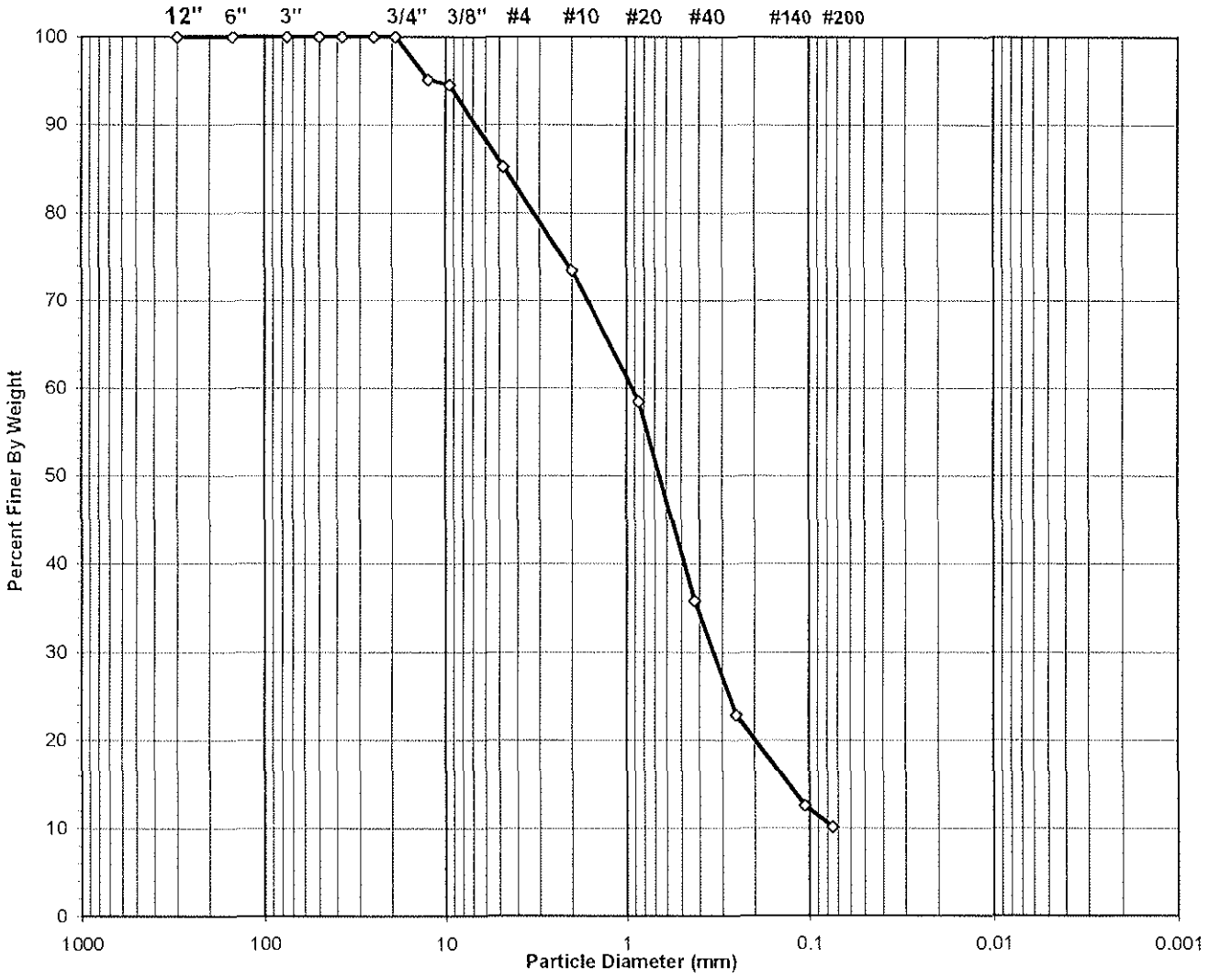
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	9.5-10.0
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-13	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol ***sp-sc, ASSUMED***

USCS Classification POORLY GRADED SAND WITH CLAY

Tested By JP Date 02/20/04 Checked By Jm Date 2·20·04

 DCN: CT-S3C DATE 5-25-98 REVISION: 2 *C:\MSOFFICE\EXCEL\PrintQ\[W440.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	9.5-10.0
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-13	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	1126	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	336.89	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	336.31	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	84.97	Weight of Tare (gm)	NA
Weight of Water (gm)	0.58	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	251.34	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.2**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	251.34
Dry Weight - 3/4" Sample (gm)	226.0	Weight of minus #200 material (gm)	25.33
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	226.01
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	12.28	4.89	4.89	95.11	**95.11**
3/8"	9.50	1.50	0.60	5.48	94.52	**94.52**
#4	4.75	23.30	9.27	14.75	85.25	**85.25**
#10	2.00	29.64	11.79	26.55	73.45	**73.45**
#20	0.850	37.77	15.03	41.57	58.43	**58.43**
#40	0.425	56.75	22.58	64.15	35.85	**35.85**
#60	0.250	32.58	12.96	77.11	22.89	**22.89**
#140	0.106	26.00	10.34	87.46	12.54	**12.54**
#200	0.075	6.19	2.46	89.92	10.08	**10.08**
Pan	-	25.33	10.08	100.00	-	-

Tested By JP Date 02/20/04 Checked By Jem Date 2-20-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\[W440.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	11.3-11.8
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-14	Visual Description	**BROWN CLAYEY, SILTY SAND** (Minus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	748	732.9
Temperature, T (°Celsius)	24.1	24.1
Weight of Pycnometer + Water (gm)	685.15	670.21
Tare Number	2493	661
Weight of Tare + Dry Soil (gm)	199.1	200.76
Weight of Tare (gm)	97.46	99.72
Weight of Dry Soil (gm)	101.64	101.04
Specific Gravity of Soil @ T	2.620	2.635
Specific Gravity of Water @ T	0.9973	0.9973
Conversion Factor for Temperature T	0.9991	0.9991
Specific Gravity @ 20° Celsius	2.623	2.637

Average Specific Gravity @ 20° Celsius	2.63

Tested By TO *Date* 02/17/04 *Checked By* Jm *Date* 2-19-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W377.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	11.3-11.8
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID No.	2004-042-01-14		
		Specific Gravity	2.63 Measured

MOISTURE CONTENT:

Tare Number	2348
Wt. of Tare & WS (gm.)	56.05
Wt. of Tare & DS (gm.)	51.64
Wt. of Tare (gm.)	8.11
Wt. of Water (gm.)	4.41
Wt. of DS (gm.)	43.53
Moisture Content (%)	**10.1**

SPECIMEN:

Wt. of Tube & WS (gm.)	449.00
Wt. of Tube (gm.)	130.24
Wt. of WS (gm.)	318.76
Length 1 (in.)	5.411
Length 2 (in.)	5.515
Length 3 (in.)	5.519
Top Diameter (in.)	1.427
Middle Diameter (in.)	1.412
Bottom Diameter (in.)	1.444
Average Length (in.)	5.48
Average Area (in.^{2})	1.60
Sample Volume (cm^3)	143.72
Unit Wet Wt. (gm./ cm^3)	2.22
Unit Wet Wt. (pcf)	138.4
Unit Dry Wt. (pcf)	125.7
Unit Dry Wt. (gm./ cm^3)	2.01
Void Ratio, e	0.31
Porosity, n	**0.23**
Pore Volume (cm^3)	33.7

Tested By: TO Date: 02/11/04 Checked By: JCM Date: 2·20·04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W422.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

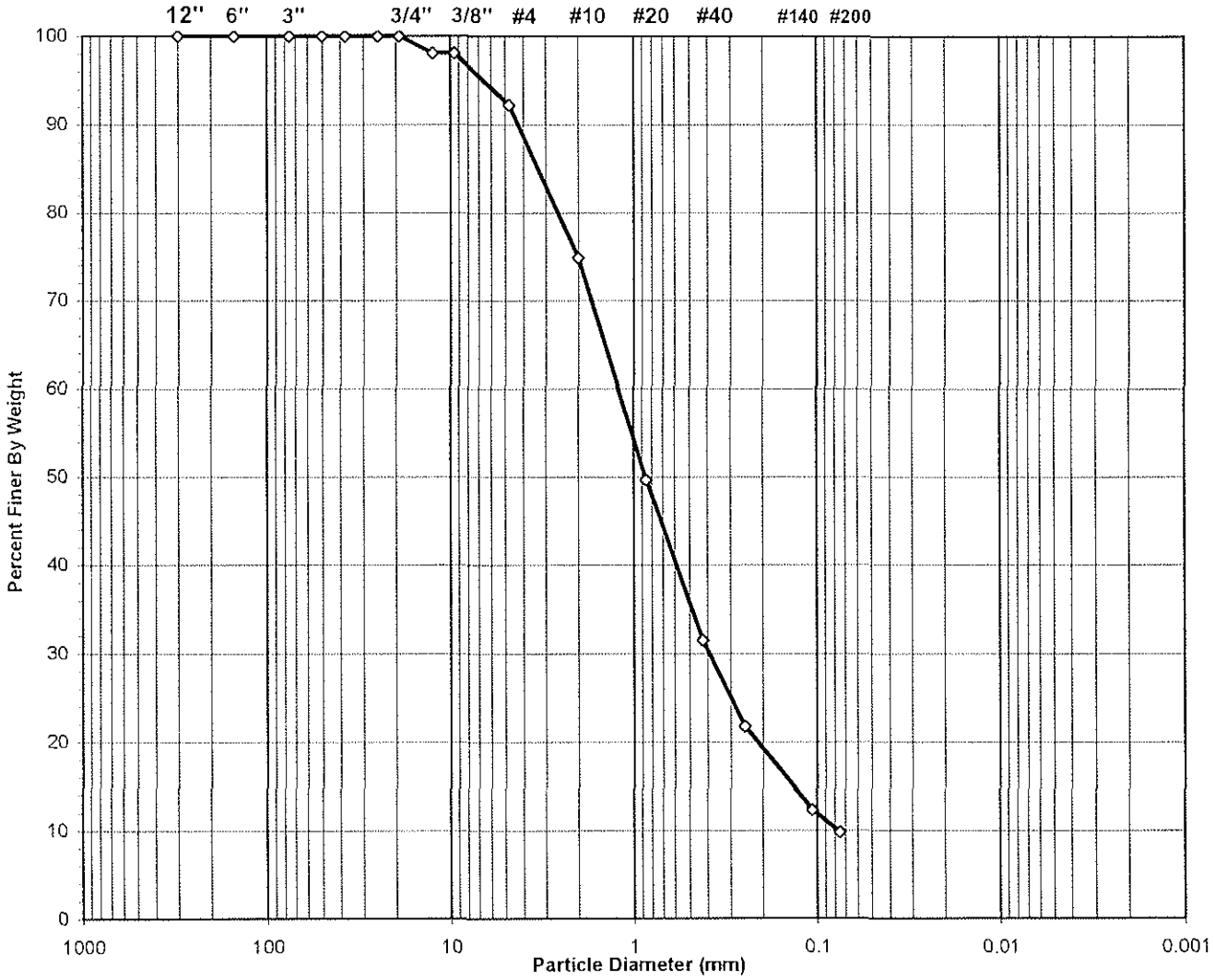
geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	11.3-11.8
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-14	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol	*sw-sc, ASSUMED*	**D60 =**	**1.2**	**CC =**	**1.6**
USCS Classification	*WELL-GRADED SAND WITH CLAY*	**D30 =**	**0.4**	**CU =**	**15.7**
		D10 =	**0.1**		

Tested By JP Date 02/20/04 Checked By Jm Date 2-20-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 C:\MSOFFICE\EXCEL\PrintQ\W441.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	11.3-11.8
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-14	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	614	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	328.71	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	328.25	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	84.81	Weight of Tare (gm)	NA
Weight of Water (gm)	0.46	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	243.44	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.2**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	243.44
Dry Weight - 3/4" Sample (gm)	219.6	Weight of minus #200 material (gm)	23.87
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	219.57
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	4.48	1.84	1.84	98.16	**98.16**
3/8"	9.50	0.00	0.00	1.84	98.16	**98.16**
#4	4.75	14.22	5.84	7.68	92.32	**92.32**
#10	2.00	42.50	17.46	25.14	74.86	**74.86**
#20	0.850	61.39	25.22	50.36	49.64	**49.64**
#40	0.425	44.09	18.11	68.47	31.53	**31.53**
#60	0.250	23.60	9.69	78.16	21.84	**21.84**
#140	0.106	23.18	9.52	87.68	12.32	**12.32**
#200	0.075	6.11	2.51	90.19	9.81	**9.81**
Pan	-	23.87	9.81	100.00	-	-

Tested By JP Date 02/20/04 Checked By Jm Date 2-20-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\[W441.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

1

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	17.0-17.5
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-15	Visual Description	**BROWN SAND**
			(MInus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	732.7	718.2
Temperature, T (°Celsius)	25.4	25.6
Weight of Pycnometer + Water (gm)	684.99	670.02
Tare Number	652	2452
Weight of Tare + Dry Soil (gm)	176.43	173.41
Weight of Tare (gm)	99.33	95.82
Weight of Dry Soil (gm)	77.10	77.59
Specific Gravity of Soil @ T	2.624	2.639
Specific Gravity of Water @ T	0.9970	0.9969
Conversion Factor for Temperature T	0.9987	0.9987
Specific Gravity @ 20° Celsius	2.627	2.642

Average Specific Gravity @ 20° Celsius	2.63

Tested By TO *Date* 02/17/04 *Checked By* Jm *Date* 2-18-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W378.xls\Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	17.0-17.5
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID No.	2004-042-01-15		
		Specific Gravity	2.63 Measured

MOISTURE CONTENT:

Tare Number	280
Wt. of Tare & WS (gm.)	84.97
Wt. of Tare & DS (gm.)	75.57
Wt. of Tare (gm.)	8.14
Wt. of Water (gm.)	9.40
Wt. of DS (gm.)	67.43
Moisture Content (%)	**13.9**

SPECIMEN:

Wt. of Tube & WS (gm.)	387.74
Wt. of Tube (gm.)	132.38
Wt. of WS (gm.)	255.36
Length 1 (in.)	5.503
Length 2 (in.)	5.422
Length 3 (in.)	5.491
Top Diameter (in.)	1.418
Middle Diameter (in.)	1.420
Bottom Diameter (in.)	1.419
Average Length (in.)	5.47
Average Area (in.^{2})	1.58
Sample Volume (cm^3)	141.73
Unit Wet Wt. (gm./ cm^3)	1.80
Unit Wet Wt. (pcf)	112.5
Unit Dry Wt. (pcf)	98.7
Unit Dry Wt. (gm./ cm^3)	1.58
Void Ratio, e	0.66
Porosity, n	**0.40**
Pore Volume (cm^3)	56.5

Tested By: TO Date: 02/11/04 Checked By: JM Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W423.xls]Sheet1

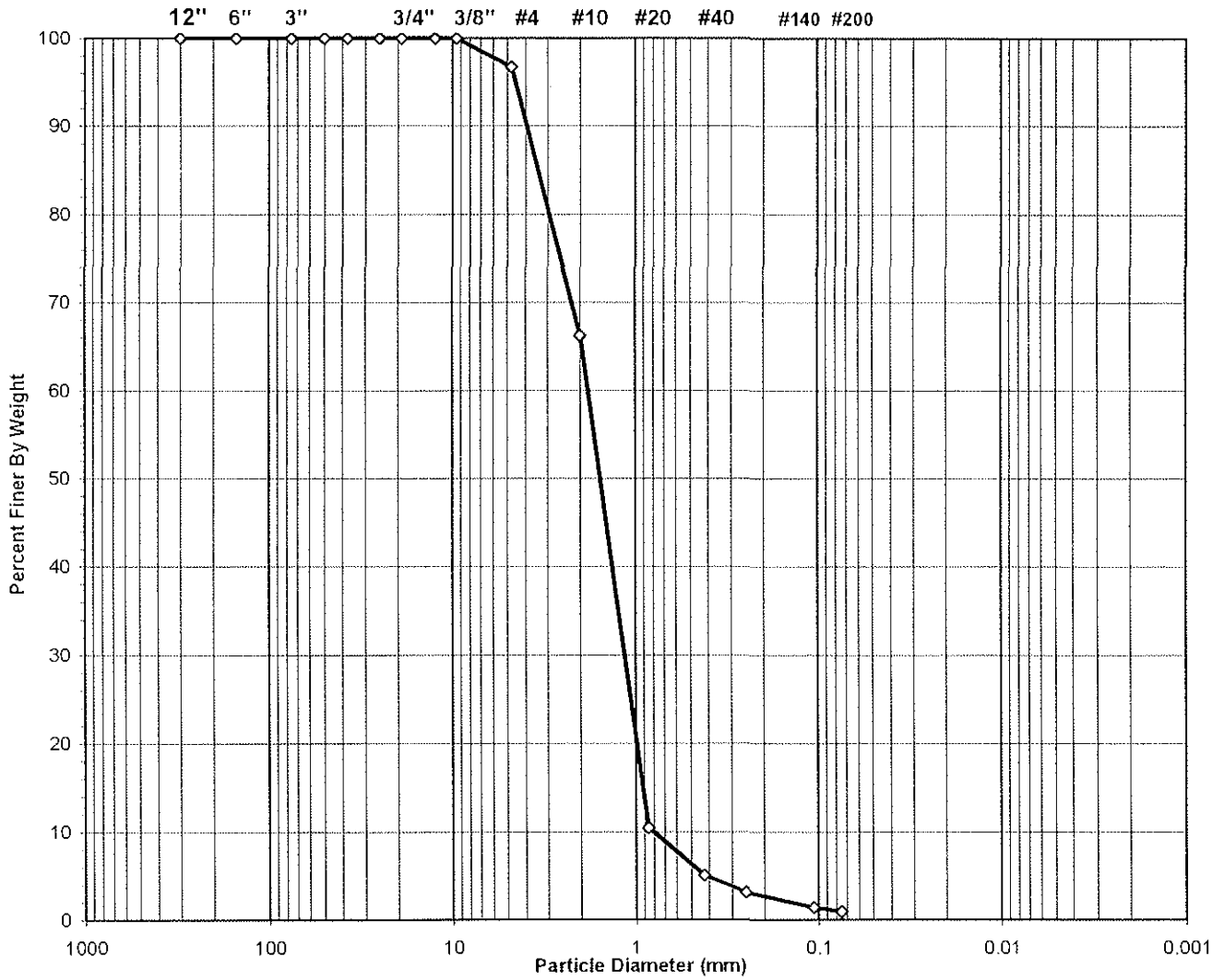
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	17.0-17.5
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-15	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol	***sp, ASSUMED***	**D60 =**	**1.8**	**CC =**	**0.9**
USCS Classification	***POORLY GRADED SAND***	**D30 =**	**1.1**	**CU =**	**2.3**
		D10 =	**0.8**		

Tested By JP Date 02/20/04 Checked By Jm Date 2·20·04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 C:\MSOFFICE\EXCEL\PrintQ\[W442.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	17.0-17.5
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-15	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	1713	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	243.25	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	243.14	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	83.09	Weight of Tare (gm)	NA
Weight of Water (gm)	0.11	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	160.05	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.1**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	160.05
Dry Weight - 3/4" Sample (gm)	158.5	Weight of minus #200 material (gm)	1.51
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	158.54
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	0.00	0.00	0.00	100.00	**100.00**
3/8"	9.50	0.00	0.00	0.00	100.00	**100.00**
#4	4.75	5.17	3.23	3.23	96.77	**96.77**
#10	2.00	48.92	30.57	33.80	66.20	**66.20**
#20	0.850	89.23	55.75	89.55	10.45	**10.45**
#40	0.425	8.67	5.42	94.96	5.04	**5.04**
#60	0.250	3.11	1.94	96.91	3.09	**3.09**
#140	0.106	2.75	1.72	98.63	1.37	**1.37**
#200	0.075	0.69	0.43	99.06	0.94	**0.94**
Pan	-	1.51	0.94	100.00	-	-

Tested By JP Date 02/20/04 Checked By Jm Date 2-20-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\W442.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	19.5-20.0
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-16	Visual Description	**BROWN FINE SAND**
			(Minus No.4 sieve material, airdried)

Replicate Number		**1**		**2**
Pycnometer ID	G	922	G	1004
Weight of Pycnometer + Soil + Water (gm)		747.7		732.4
Temperature, T (°Celsius)		26.6		26.8
Weight of Pycnometer + Water (gm)		684.83		669.86
Tare Number		863		698
Weight of Tare + Dry Soil (gm)		204.81		201.81
Weight of Tare (gm)		103.67		101.2
Weight of Dry Soil (gm)		101.14		100.61
Specific Gravity of Soil @ T		2.643		2.643
Specific Gravity of Water @ T		0.9967		0.9966
Conversion Factor for Temperature T		0.9984		0.9984
Specific Gravity @ 20° Celsius		2.647		2.647

Average Specific Gravity @ 20° Celsius	2.65

Tested By TO *Date* 02/17/04 *Checked By* Jm *Date* 2-19-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W379.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	19.5-20.0
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID No.	2004-042-01-16		
		Specific Gravity	2.65 Measured

MOISTURE CONTENT:

Tare Number	2390
Wt. of Tare & WS (gm.)	59.03
Wt. of Tare & DS (gm.)	55.52
Wt. of Tare (gm.)	8.14
Wt. of Water (gm.)	3.51
Wt. of DS (gm.)	47.38
Moisture Content (%)	**7.4**

SPECIMEN:

Wt. of Tube & WS (gm.)	453.30
Wt. of Tube (gm.)	132.00
Wt. of WS (gm.)	321.30
Length 1 (in.)	6.014
Length 2 (in.)	6.011
Length 3 (in.)	6.012
Top Diameter (in.)	1.409
Middle Diameter (in.)	1.404
Bottom Diameter (in.)	1.419
Average Length (in.)	6.01
Average Area (in.^{2})	1.56
Sample Volume (cm^3)	153.90
Unit Wet Wt. (gm./ cm^3)	2.09
Unit Wet Wt. (pcf)	130.3
Unit Dry Wt. (pcf)	121.3
Unit Dry Wt. (gm./ cm^3)	1.94
Void Ratio, e	0.36
Porosity, n	**0.27**
Pore Volume (cm^3)	41.0

Tested By: TO Date: 02/11/04 Checked By: Jcm Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\Excel\Printq\[W424.xls]Sheet1

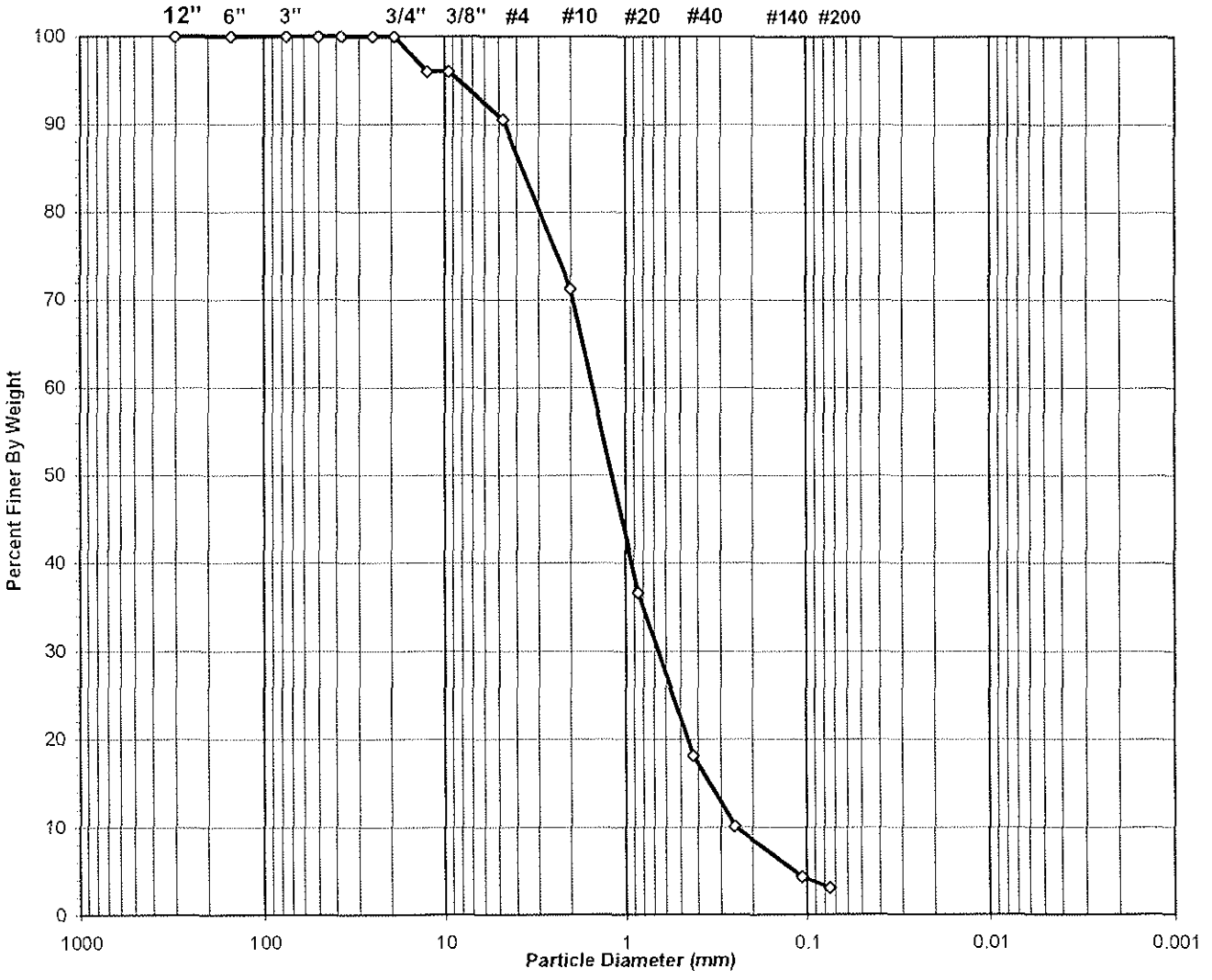
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	19.5-20.0
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-16	Soil Color	BROWN

	SIEVE ANALYSIS		HYDROMETER
USCS	gravel	sand	silt and clay



USCS Symbol	*sw, ASSUMED*	D60 =	1.5	CC =	1.2
USCS Classification	*WELL-GRADED SAND*	D30 =	0.7	CU =	6.2
		D10 =	0.2		

Tested By JP Date 02/20/04 Checked By Jm Date 2.2004

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 C:\MSOFFICE\EXCEL\PrintQ\[W443.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	19.5-20.0
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-16	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	642	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	339.04	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	338.80	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	99.05	Weight of Tare (gm)	NA
Weight of Water (gm)	0.24	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	239.75	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.1**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	239.75
Dry Weight - 3/4" Sample (gm)	232.5	Weight of minus #200 material (gm)	7.29
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	232.46
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	9.54	3.98	3.98	96.02	**96.02**
3/8"	9.50	0.00	0.00	3.98	96.02	**96.02**
#4	4.75	13.09	5.46	9.44	90.56	**90.56**
#10	2.00	46.19	19.27	28.70	71.30	**71.30**
#20	0.850	83.06	34.64	63.35	36.65	**36.65**
#40	0.425	44.37	18.51	81.86	18.14	**18.14**
#60	0.250	19.26	8.03	89.89	10.11	**10.11**
#140	0.106	13.82	5.76	95.65	4.35	**4.35**
#200	0.075	3.13	1.31	96.96	3.04	**3.04**
Pan	-	7.29	3.04	100.00	-	-

Tested By JP Date 02/20/04 Checked By Jam Date 2-20-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\[W443.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	21.0-21.5
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-17	Visual Description	**BROWN SAND**
			(MInus No.4 sieve material, airdried)

Replicate Number		**1**		**2**
Pycnometer ID	G	922	G	1004
Weight of Pycnometer + Soil + Water (gm)		733.4		723
Temperature, T (°Celsius)		23.7		24.5
Weight of Pycnometer + Water (gm)		685.20		670.16
Tare Number		680		523
Weight of Tare + Dry Soil (gm)		174.72		184.16
Weight of Tare (gm)		96.8		99.19
Weight of Dry Soil (gm)		77.92		84.97
Specific Gravity of Soil @ T		2.622		2.645
Specific Gravity of Water @ T		0.9974		0.9972
Conversion Factor for Temperature T		0.9992		0.9990
Specific Gravity @ 20° Celsius		2.624		2.648

Average Specific Gravity @ 20° Celsius	2.64

Tested By TO *Date* 02/19/04 *Checked By* Jm *Date* 2-20-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W397.xls\Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	21.0-21.5
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID No.	2004-042-01-17		
		Specific Gravity	2.64 Measured

MOISTURE CONTENT:

Tare Number	2340
Wt. of Tare & WS (gm.)	72.28
Wt. of Tare & DS (gm.)	66.85
Wt. of Tare (gm.)	8.00
Wt. of Water (gm.)	5.43
Wt. of DS (gm.)	58.85
Moisture Content (%)	**9.2**

SPECIMEN:

Wt. of Tube & WS (gm.)	400.50
Wt. of Tube (gm.)	133.17
Wt. of WS (gm.)	267.33
Length 1 (in.)	5.505
Length 2 (in.)	5.451
Length 3 (in.)	5.519
Top Diameter (in.)	1.404
Middle Diameter (in.)	1.410
Bottom Diameter (in.)	1.416
Average Length (in.)	5.49
Average Area ($in.^2$)	1.56
Sample Volume (cm^3)	140.45
Unit Wet Wt. ($gm./cm^3$)	1.90
Unit Wet Wt. (pcf)	118.8
Unit Dry Wt. (pcf)	108.8
Unit Dry Wt. ($gm./cm^3$)	1.74
Void Ratio, e	0.51
Porosity, n	**0.34**
Pore Volume (cm^3)	47.7

Tested By: TO Date: 02/11/04 Checked By: JMO Date: 2/20/04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W425.xls]Sheet1

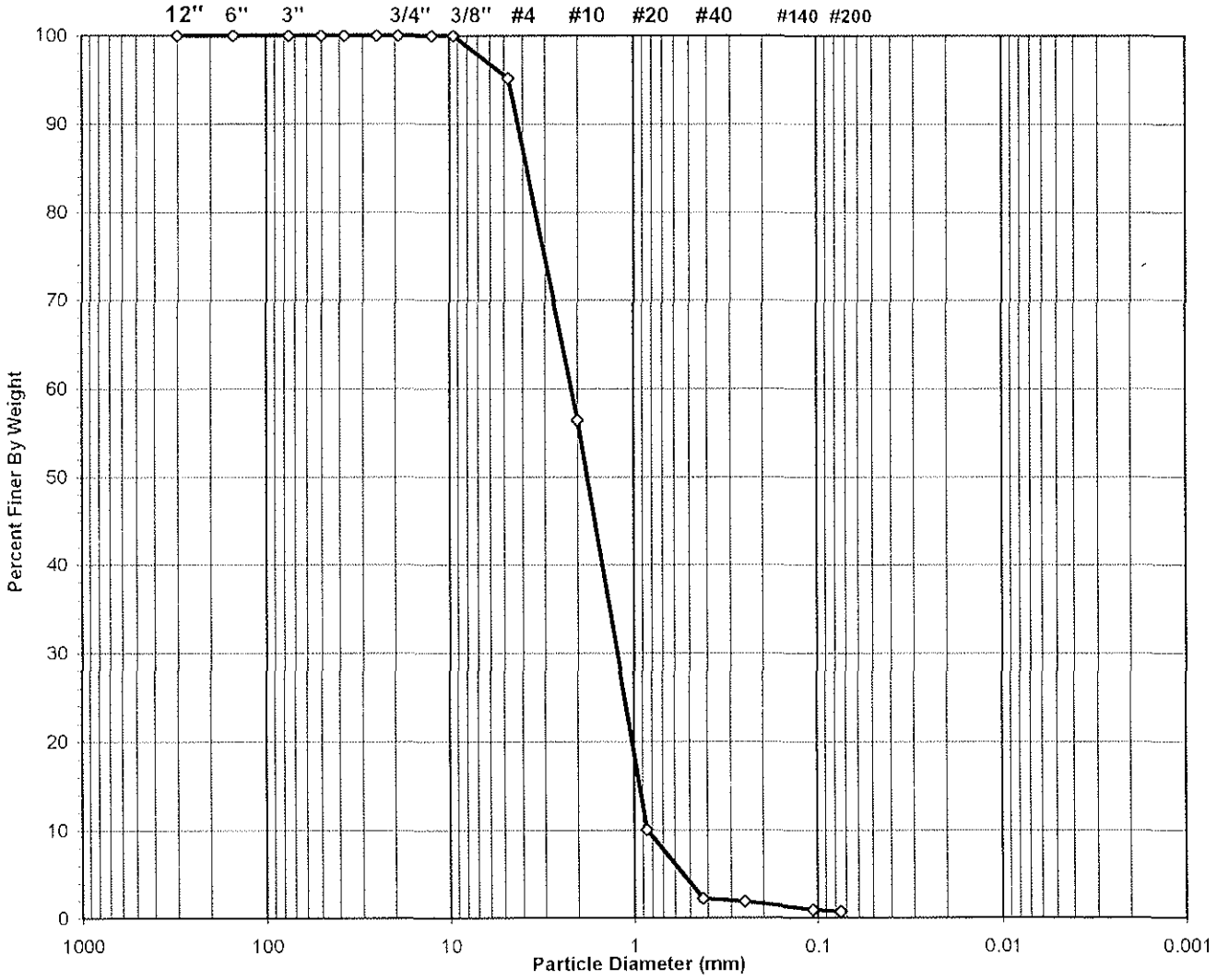
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	21.0-21.5
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-17	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol	*sp, ASSUMED*	**D60 =**	**2.2**	**CC =**	**0.8**
USCS Classification	*POORLY GRADED SAND*	**D30 =**	**1.2**	**CU =**	**2.6**
		D10 =	**0.8**		

Tested By JP Date 02/25/04 Checked By Jcm Date 2-26-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 C:\MSOFFICE\Excel\Printq\[W496.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	21.0-21.5
Project No.	2004-042-01	Sample No.	MSMW23B
Lab ID	2004-042-01-17	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	2339	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	267.48	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	267.20	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	93.91	Weight of Tare (gm)	NA
Weight of Water (gm)	0.28	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	173.29	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.2**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	173.29
Dry Weight - 3/4" Sample (gm)	172.0	Weight of minus #200 material (gm)	1.27
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	172.02
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	0.00	0.00	0.00	100.00	**100.00**
3/8"	9.50	0.00	0.00	0.00	100.00	**100.00**
#4	4.75	8.30	4.79	4.79	95.21	**95.21**
#10	2.00	67.12	38.73	43.52	56.48	**56.48**
#20	0.850	80.44	46.42	89.94	10.06	**10.06**
#40	0.425	13.59	7.84	97.78	2.22	**2.22**
#60	0.250	0.61	0.35	98.14	1.86	**1.86**
#140	0.106	1.56	0.90	99.04	0.96	**0.96**
#200	0.075	0.40	0.23	99.27	0.73	**0.73**
Pan	-	1.27	0.73	100.00	-	**-**

Tested By JP Date 02/25/04 Checked By Jem Date 2.26.04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\Excel\Printq\[W496.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	9.5-10.5
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-05	Visual Description	**BROWN CLAYEY SAND**
			(MInus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	745.4	729.4
Temperature, T (°Celsius)	25.3	25.8
Weight of Pycnometer + Water (gm)	685.00	669.99
Tare Number	511	652
Weight of Tare + Dry Soil (gm)	194.81	194.66
Weight of Tare (gm)	97.75	99.15
Weight of Dry Soil (gm)	97.06	95.51
Specific Gravity of Soil @ T	2.648	2.646
Specific Gravity of Water @ T	0.9970	0.9969
Conversion Factor for Temperature T	0.9988	0.9986
Specific Gravity @ 20° Celsius	2.651	2.649

Average Specific Gravity @ 20° Celsius	2.65

Tested By TO *Date* 02/13/04 *Checked By* Jom *Date* 2-17-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W352.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	9.5-10.5
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID No.	2004-042-01-05		
		Specific Gravity	2.65 Measured

MOISTURE CONTENT:

Tare Number	2311
Wt. of Tare & WS (gm.)	75.90
Wt. of Tare & DS (gm.)	69.27
Wt. of Tare (gm.)	7.92
Wt. of Water (gm.)	6.63
Wt. of DS (gm.)	61.35
Moisture Content (%)	**10.8**

SPECIMEN:

Wt. of Tube & WS (gm.)	461.40
Wt. of Tube (gm.)	129.07
Wt. of WS (gm.)	332.33
Length 1 (in.)	5.966
Length 2 (in.)	5.974
Length 3 (in.)	5.972
Top Diameter (in.)	1.444
Middle Diameter (in.)	1.426
Bottom Diameter (in.)	1.436
Average Length (in.)	5.97
Average Area (in.^{2})	1.62
Sample Volume (cm^3)	158.27
Unit Wet Wt. (gm./ cm^3)	2.10
Unit Wet Wt. (pcf)	131.1
Unit Dry Wt. (pcf)	118.3
Unit Dry Wt. (gm./ cm^3)	1.89
Void Ratio, e	0.40
Porosity, n	**0.28**
Pore Volume (cm^3)	45.1

Tested By: TO Date: 02/10/04 Checked By: Jom Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W413.xls]Sheet1

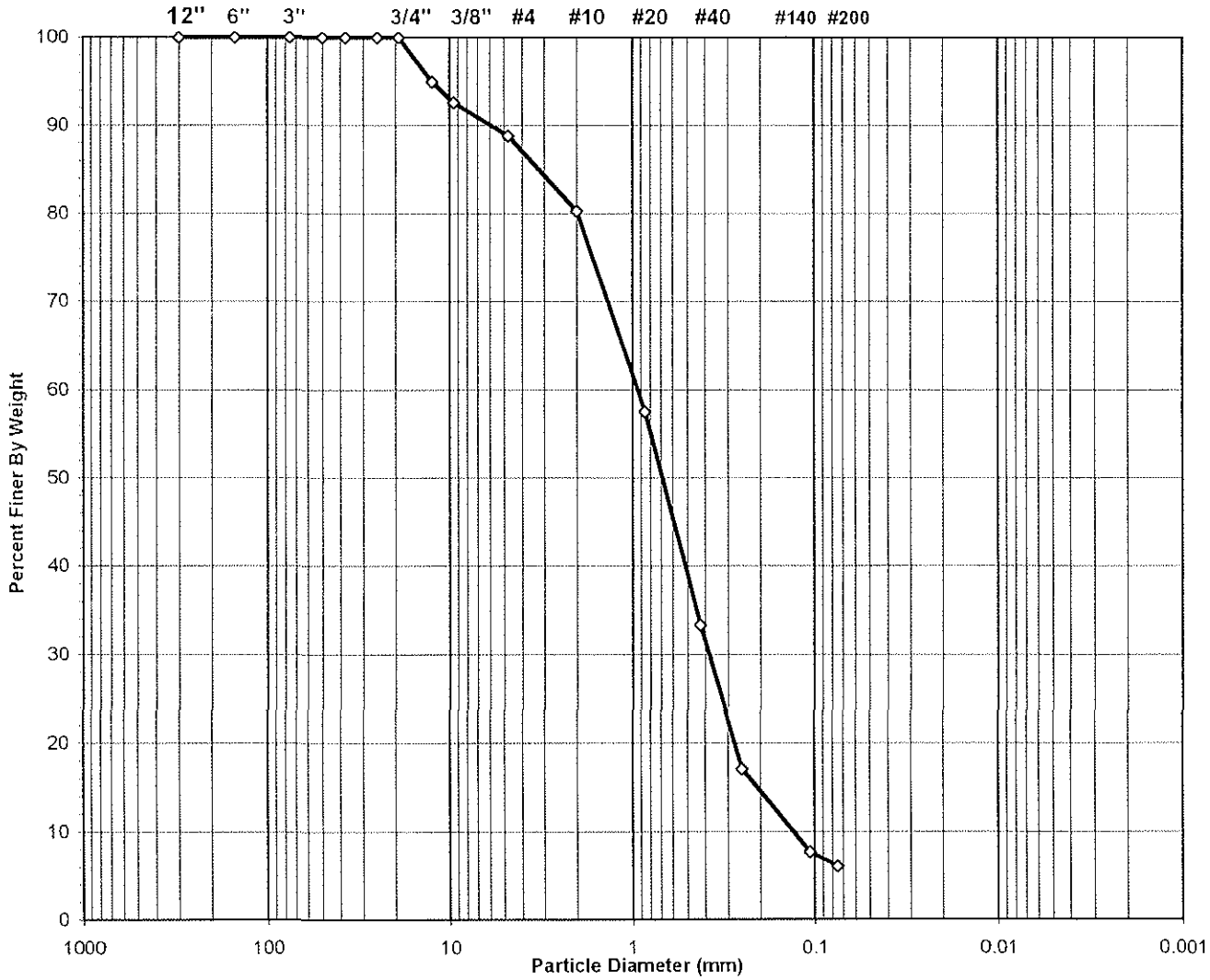
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	9.5-10.5
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-05	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol	***sw-sc, ASSUMED***	**D60 =**	**0.9**	**CC =**	**1.2**
USCS Classification	***WELL-GRADED SAND WITH CLAY***	**D30 =**	**0.4**	**CU =**	**7.1**
		D10 =	**0.1**		

Tested By JP Date 02/18/04 Checked By Jem Date 2-20-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 C:\MSOFFICE\EXCEL\PrintQ\W433.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	9.5-10.5
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-05	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	606	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	578.60	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	575.60	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	85.61	Weight of Tare (gm)	NA
Weight of Water (gm)	3.00	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	489.99	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.6**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	489.99
Dry Weight - 3/4" Sample (gm)	460.3	Weight of minus #200 material (gm)	29.66
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	460.33
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated **Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	24.61	5.02	5.02	94.98	**94.98**
3/8"	9.50	11.65	2.38	7.40	92.60	**92.60**
#4	4.75	18.53	3.78	11.18	88.82	**88.82**
#10	2.00	42.08	8.59	19.77	80.23	**80.23**
#20	0.850	111.33	22.72	42.49	57.51	**57.51**
#40	0.425	118.50	24.18	66.67	33.33	**33.33**
#60	0.250	79.67	16.26	82.93	17.07	**17.07**
#140	0.106	46.21	9.43	92.37	7.63	**7.63**
#200	0.075	7.75	1.58	93.95	6.05	**6.05**
Pan	-	29.66	6.05	100.00	-	-

Tested By JP Date 02/18/04 Checked By Jcm Date 2-20-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\[W433.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	17.5-18.0
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-06	Visual Description	**BROWN SAND**
			(Minus No.4 sieve material, airdried)

Replicate Number		**1**		**2**
Pycnometer ID	G	922	G	1004
Weight of Pycnometer + Soil + Water (gm)		739.5		726
Temperature, T (°Celsius)		24.0		24.3
Weight of Pycnometer + Water (gm)		685.16		670.18
Tare Number		2349		1614
Weight of Tare + Dry Soil (gm)		185.51		188.98
Weight of Tare (gm)		97.77		98.91
Weight of Dry Soil (gm)		87.74		90.07
Specific Gravity of Soil @ T		2.627		2.630
Specific Gravity of Water @ T		0.9973		0.9973
Conversion Factor for Temperature T		0.9991		0.9990
Specific Gravity @ 20° Celsius		2.629		2.632

Average Specific Gravity @ 20° Celsius	2.63

Tested By TO *Date* 02/16/04 *Checked By* Jm *Date* 2-17-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W353.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	17.5-18.0
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID No.	2004-042-01-06		
		Specific Gravity	2.63 Measured

MOISTURE CONTENT:

Tare Number	2291
Wt. of Tare & WS (gm.)	58.77
Wt. of Tare & DS (gm.)	53.66
Wt. of Tare (gm.)	8.15
Wt. of Water (gm.)	5.11
Wt. of DS (gm.)	45.51
Moisture Content (%)	**11.2**

SPECIMEN:

Wt. of Tube & WS (gm.)	424.60
Wt. of Tube (gm.)	128.52
Wt. of WS (gm.)	296.08
Length 1 (in.)	5.008
Length 2 (in.)	5.265
Length 3 (in.)	5.257
Top Diameter (in.)	1.440
Middle Diameter (in.)	1.431
Bottom Diameter (in.)	1.438
Average Length (in.)	5.18
Average Area (in.^{2})	1.62
Sample Volume (cm^3)	137.45
Unit Wet Wt. (gm./ cm^3)	2.15
Unit Wet Wt. (pcf)	134.5
Unit Dry Wt. (pcf)	120.9
Unit Dry Wt. (gm./ cm^3)	1.94
Void Ratio, e	0.36
Porosity, n	**0.26**
Pore Volume (cm^3)	36.2

Tested By: TO Date: 02/10/04 Checked By: Jem Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W414.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	17.5-18.0
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-06	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**

USCS Symbol	*sp, ASSUMED*	**D60 =**	**0.7**	**CC =**	**1.0**
USCS Classification	*POORLY GRADED SAND WITH GRAVEL*	**D30 =**	**0.3**	**CU =**	**4.6**
		D10 =	**0.1**		

Tested By JP Date 02/18/04 Checked By Jam Date 2-20-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 *C:\MSOFFICE\EXCEL\PrintQ\[W434.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	17.5-18.0
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-06	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	611	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	293.14	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	293.14	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	83.01	Weight of Tare (gm)	NA
Weight of Water (gm)	0.00	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	210.13	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.0**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	210.13
Dry Weight - 3/4" Sample (gm)	175.5	Weight of minus #200 material (gm)	6.27
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	203.86
Dry Weight + 3/4" Sample (gm)	28.32		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	28.32	13.48	13.48	86.52	**86.52**
1/2"	12.50	0.00	0.00	13.48	86.52	**86.52**
3/8"	9.50	0.00	0.00	13.48	86.52	**86.52**
#4	4.75	3.56	1.69	15.17	84.83	**84.83**
#10	2.00	8.69	4.14	19.31	80.69	**80.69**
#20	0.850	27.06	12.88	32.18	67.82	**67.82**
#40	0.425	43.98	20.93	53.11	46.89	**46.89**
#60	0.250	54.71	26.04	79.15	20.85	**20.85**
#140	0.106	34.63	16.48	95.63	4.37	**4.37**
#200	0.075	2.91	1.38	97.02	2.98	**2.98**
Pan	-	6.27	2.98	100.00	-	-

Tested By JP Date 02/18/04 Checked By Jm Date 2-20-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\W434.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	19.3-19.8
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-07	Visual Description	**BROWN SAND**
			(Minus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	719	705.6
Temperature, T (°Celsius)	22.1	22.3
Weight of Pycnometer + Water (gm)	685.39	670.42
Tare Number	503	677
Weight of Tare + Dry Soil (gm)	151.71	156.72
Weight of Tare (gm)	96.89	99.43
Weight of Dry Soil (gm)	54.82	57.29
Specific Gravity of Soil @ T	2.585	2.591
Specific Gravity of Water @ T	0.9978	0.9977
Conversion Factor for Temperature T	0.9995	0.9995
Specific Gravity @ 20° Celsius	2.586	2.592

Average Specific Gravity @ 20° Celsius	2.59

Tested By TO *Date* 02/16/04 *Checked By* Jm *Date* 2-17-04

DCN: CT-S5 Date 9/24/03 Revision: 9

C:\MSOFFICE\EXCEL\PrintQ\W354.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	19.3-19.8
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID No.	2004-042-01-07		
		Specific Gravity	2.59 Measured

MOISTURE CONTENT:

Tare Number	284
Wt. of Tare & WS (gm.)	54.46
Wt. of Tare & DS (gm.)	52.52
Wt. of Tare (gm.)	8.16
Wt. of Water (gm.)	1.94
Wt. of DS (gm.)	44.36
Moisture Content (%)	**4.4**

SPECIMEN:

Wt. of Tube & WS (gm.)	411.90
Wt. of Tube (gm.)	128.23
Wt. of WS (gm.)	283.67
Length 1 (in.)	5.403
Length 2 (in.)	5.450
Length 3 (in.)	5.329
Top Diameter (in.)	1.440
Middle Diameter (in.)	1.433
Bottom Diameter (in.)	1.435
Average Length (in.)	5.39
Average Area (in.^{2})	1.62
Sample Volume (cm^3)	143.12
Unit Wet Wt. (gm./ cm^3)	1.98
Unit Wet Wt. (pcf)	123.7
Unit Dry Wt. (pcf)	118.5
Unit Dry Wt. (gm./ cm^3)	1.90
Void Ratio, e	0.36
Porosity, n	**0.27**
Pore Volume (cm^3)	38.2

Tested By: TO Date: 02/10/04 Checked By: Jcm Date: 2.20.04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W415.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

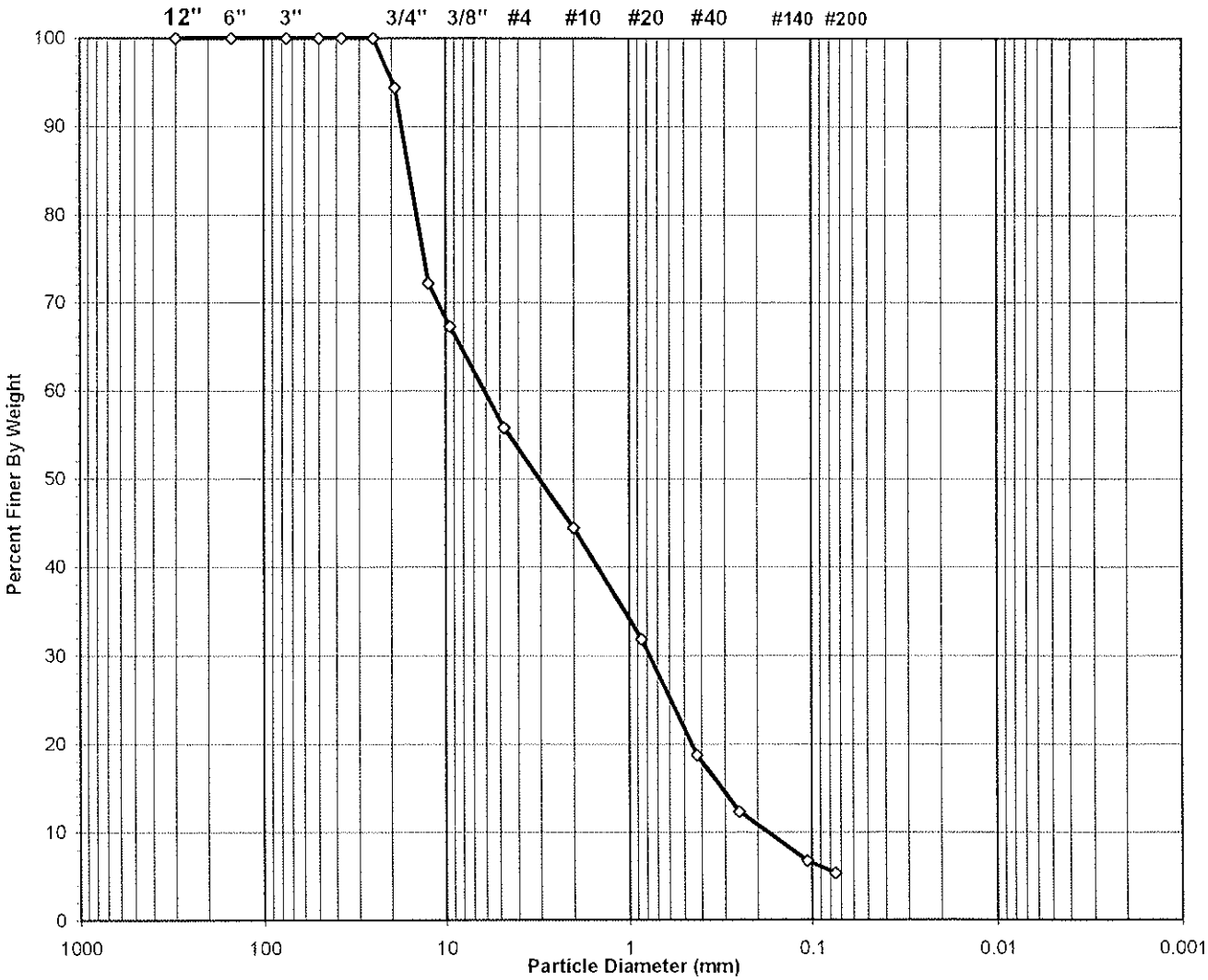
geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	19.3-19.8
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-07	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol	***sp-sm, ASSUMED***	**D60 =**	**6.1**	**CC =**	**0.6**
USCS Classification	***POORLY GRADED SAND WITH SILT AND GRAVEL***	**D30 =**	**0.8**	**CU =**	**35.0**
		D10 =	**0.2**		

Tested By JP Date 02/19/04 Checked By Jam Date 2-20-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 *C:\MSOFFICE\EXCEL\PrintQ\W435.xls]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	19.3-19.8
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-07	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	1122	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	298.82	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	298.80	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	84.49	Weight of Tare (gm)	NA
Weight of Water (gm)	0.02	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	214.31	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.0**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	214.31
Dry Weight - 3/4" Sample (gm)	191.0	Weight of minus #200 material (gm)	11.36
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	202.95
Dry Weight + 3/4" Sample (gm)	11.91		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	11.91	5.56	5.56	94.44	**94.44**
1/2"	12.50	47.61	22.22	27.77	72.23	**72.23**
3/8"	9.50	10.62	4.96	32.73	67.27	**67.27**
#4	4.75	24.65	11.50	44.23	55.77	**55.77**
#10	2.00	24.40	11.39	55.62	44.38	**44.38**
#20	0.850	26.81	12.51	68.13	31.87	**31.87**
#40	0.425	28.17	13.14	81.27	18.73	**18.73**
#60	0.250	13.73	6.41	87.68	12.32	**12.32**
#140	0.106	12.00	5.60	93.28	6.72	**6.72**
#200	0.075	3.05	1.42	94.70	5.30	**5.30**
Pan	-	11.36	5.30	100.00	-	-

Tested By JP Date 02/19/04 Checked By Jam Date 2-20-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\W435.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	21.3-21.8
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-08	Visual Description	**BROWN SAND**
			(Minus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	730.4	717.3
Temperature, T (°Celsius)	24.3	23.9
Weight of Pycnometer + Water (gm)	685.13	670.23
Tare Number	673	649
Weight of Tare + Dry Soil (gm)	173.08	176.82
Weight of Tare (gm)	100.01	101.14
Weight of Dry Soil (gm)	73.07	75.68
Specific Gravity of Soil @ T	2.629	2.645
Specific Gravity of Water @ T	0.9973	0.9974
Conversion Factor for Temperature T	0.9990	0.9991
Specific Gravity @ 20° Celsius	2.631	2.647

Average Specific Gravity @ 20° Celsius	2.64

Tested By TO *Date* 02/16/04 *Checked By* Jm *Date* 2-17-04

DCN: CT-S5 Date 9/24/03 Revision: 9 C:\MSOFFICE\EXCEL\PrintQ\W355.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	21.3-21.8
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID No.	2004-042-01-08		
		Specific Gravity	2.64 Measured

MOISTURE CONTENT:

Tare Number	2344
Wt. of Tare & WS (gm.)	43.60
Wt. of Tare & DS (gm.)	41.06
Wt. of Tare (gm.)	8.05
Wt. of Water (gm.)	2.54
Wt. of DS (gm.)	33.01
Moisture Content (%)	**7.7**

SPECIMEN:

Wt. of Tube & WS (gm.)	424.00
Wt. of Tube (gm.)	129.72
Wt. of WS (gm.)	294.28
Length 1 (in.)	5.049
Length 2 (in.)	4.930
Length 3 (in.)	4.884
Top Diameter (in.)	1.434
Middle Diameter (in.)	1.435
Bottom Diameter (in.)	1.433
Average Length (in.)	4.95
Average Area (in.^{2})	1.61
Sample Volume (cm^3)	131.08
Unit Wet Wt. (gm./ cm^3)	2.25
Unit Wet Wt. (pcf)	140.1
Unit Dry Wt. (pcf)	130.1
Unit Dry Wt. (gm./ cm^3)	2.08
Void Ratio, e	0.27
Porosity, n	**0.21**
Pore Volume (cm^3)	27.6

Tested By: TO Date: 02/10/04 Checked By: Jcm Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W416.xls]Sheet1

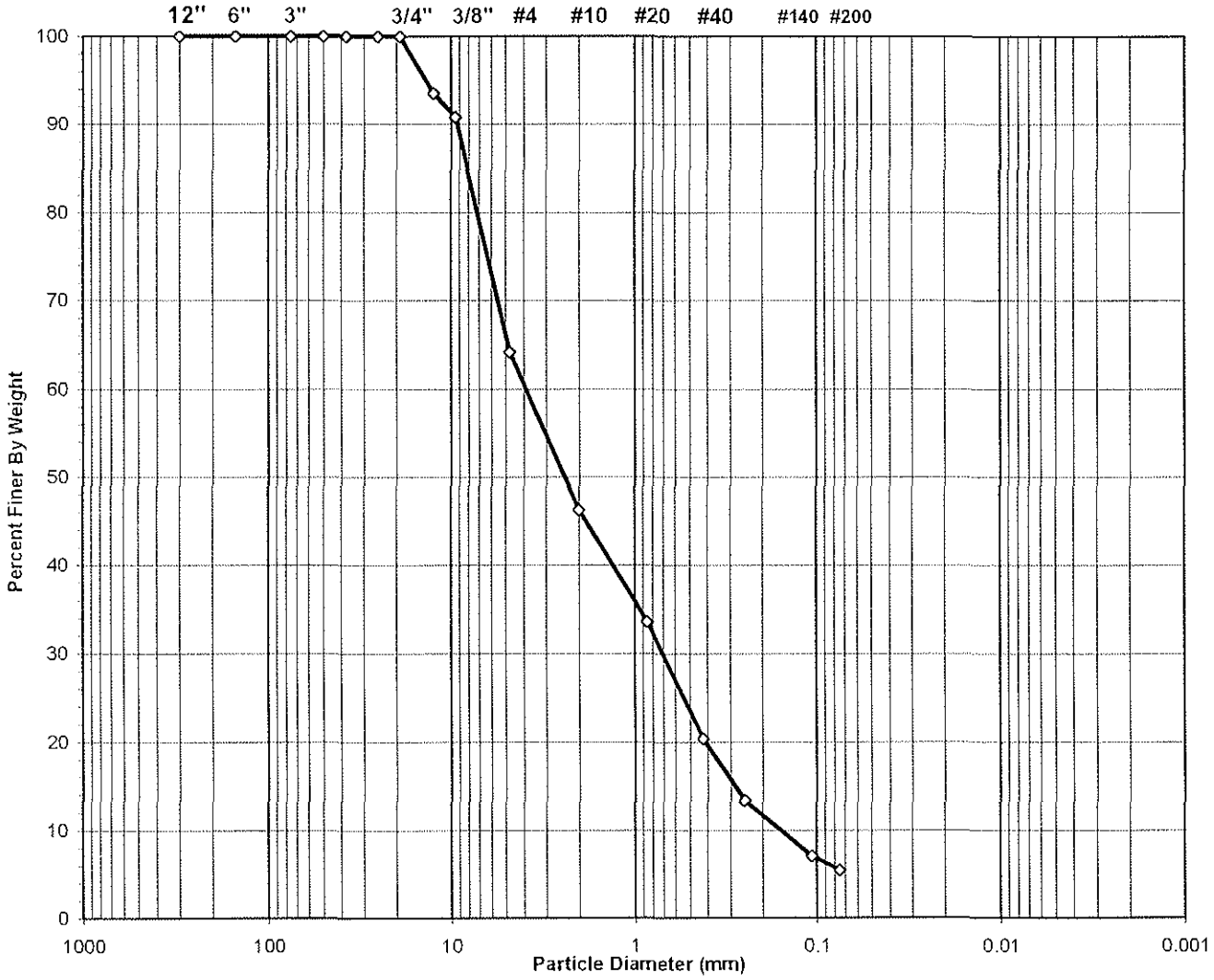
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	21.3-21.8
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-08	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	**gravel**	**sand**	**silt and clay**



USCS Symbol	*sp-sm, ASSUMED*	**D60 =**	**3.9**	**CC =**	**0.8**
USCS Classification	*POORLY GRADED SAND WITH SILT AND GRAVEL*	**D30 =**	**0.7**	**CU =**	**24.6**
		D10 =	**0.2**		

Tested By JP Date 02/19/04 Checked By Jcm Date 2-20-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 C:\MSOFFICE\EXCEL\PrintQ\[W436.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	21.3-21.8
Project No.	2004-042-01	Sample No.	MSMW24A
Lab ID	2004-042-01-08	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	586	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	316.81	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	316.81	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	82.78	Weight of Tare (gm)	NA
Weight of Water (gm)	0.00	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	234.03	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.0**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	234.03
Dry Weight - 3/4" Sample (gm)	221.2	Weight of minus #200 material (gm)	12.81
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	221.22
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated **Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.50	15.14	6.47	6.47	93.53	**93.53**
3/8"	9.50	6.31	2.70	9.17	90.83	**90.83**
#4	4.75	62.46	26.69	35.85	64.15	**64.15**
#10	2.00	41.77	17.85	53.70	46.30	**46.30**
#20	0.850	29.81	12.74	66.44	33.56	**33.56**
#40	0.425	30.80	13.16	79.60	20.40	**20.40**
#60	0.250	16.41	7.01	86.61	13.39	**13.39**
#140	0.106	14.80	6.32	92.94	7.06	**7.06**
#200	0.075	3.72	1.59	94.53	5.47	**5.47**
Pan	-	12.81	5.47	100.00	-	-

Tested By JP Date 02/19/04 Checked By Jam Date 2.20.04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\[W436.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	11.5-12.0
Project No.	2004-042-01	Sample No.	MSMW24B
Lab ID	2004-042-01-09	Visual Description	**BROWN CLAYEY SAND**
			(MInus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	727.2	712.1
Temperature, T (°Celsius)	24.1	24.7
Weight of Pycnometer + Water (gm)	685.15	670.13
Tare Number	523	658
Weight of Tare + Dry Soil (gm)	166.16	164.49
Weight of Tare (gm)	99.19	97.58
Weight of Dry Soil (gm)	66.97	66.91
Specific Gravity of Soil @ T	2.687	2.683
Specific Gravity of Water @ T	0.9973	0.9972
Conversion Factor for Temperature T	0.9991	0.9989
Specific Gravity @ 20° Celsius	2.690	2.686

Average Specific Gravity @ 20° Celsius	2.69

Tested By TO *Date* 02/16/04 *Checked By* Jm *Date* 2-17-04

DCN: CT-S5 Date 9/24/03 Revision: 9 C:\MSOFFICE\EXCEL\PrintQ\W356.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	11.5-12.0
Project No.	2004-042-01	Sample No.	MSMW24B
Lab ID No.	2004-042-01-09		
		Specific Gravity	2.69 Measured

MOISTURE CONTENT:

Tare Number	2333
Wt. of Tare & WS (gm.)	61.01
Wt. of Tare & DS (gm.)	55.12
Wt. of Tare (gm.)	8.14
Wt. of Water (gm.)	5.89
Wt. of DS (gm.)	46.98
Moisture Content (%)	**12.5**

SPECIMEN:

Wt. of Tube & WS (gm.)	475.00
Wt. of Tube (gm.)	128.89
Wt. of WS (gm.)	346.11
Length 1 (in.)	5.528
Length 2 (in.)	5.528
Length 3 (in.)	5.560
Top Diameter (in.)	1.430
Middle Diameter (in.)	1.438
Bottom Diameter (in.)	1.434
Average Length (in.)	5.54
Average Area (in.^{2})	1.61
Sample Volume (cm^3)	146.51
Unit Wet Wt. (gm./ cm^3)	2.36
Unit Wet Wt. (pcf)	147.5
Unit Dry Wt. (pcf)	131.0
Unit Dry Wt. (gm./ cm^3)	2.10
Void Ratio, e	0.28
Porosity, n	**0.22**
Pore Volume (cm^3)	32.2

Tested By: TO Date: 02/11/04 Checked By: Jm Date: 2·20·04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W417.xls]Sheet1

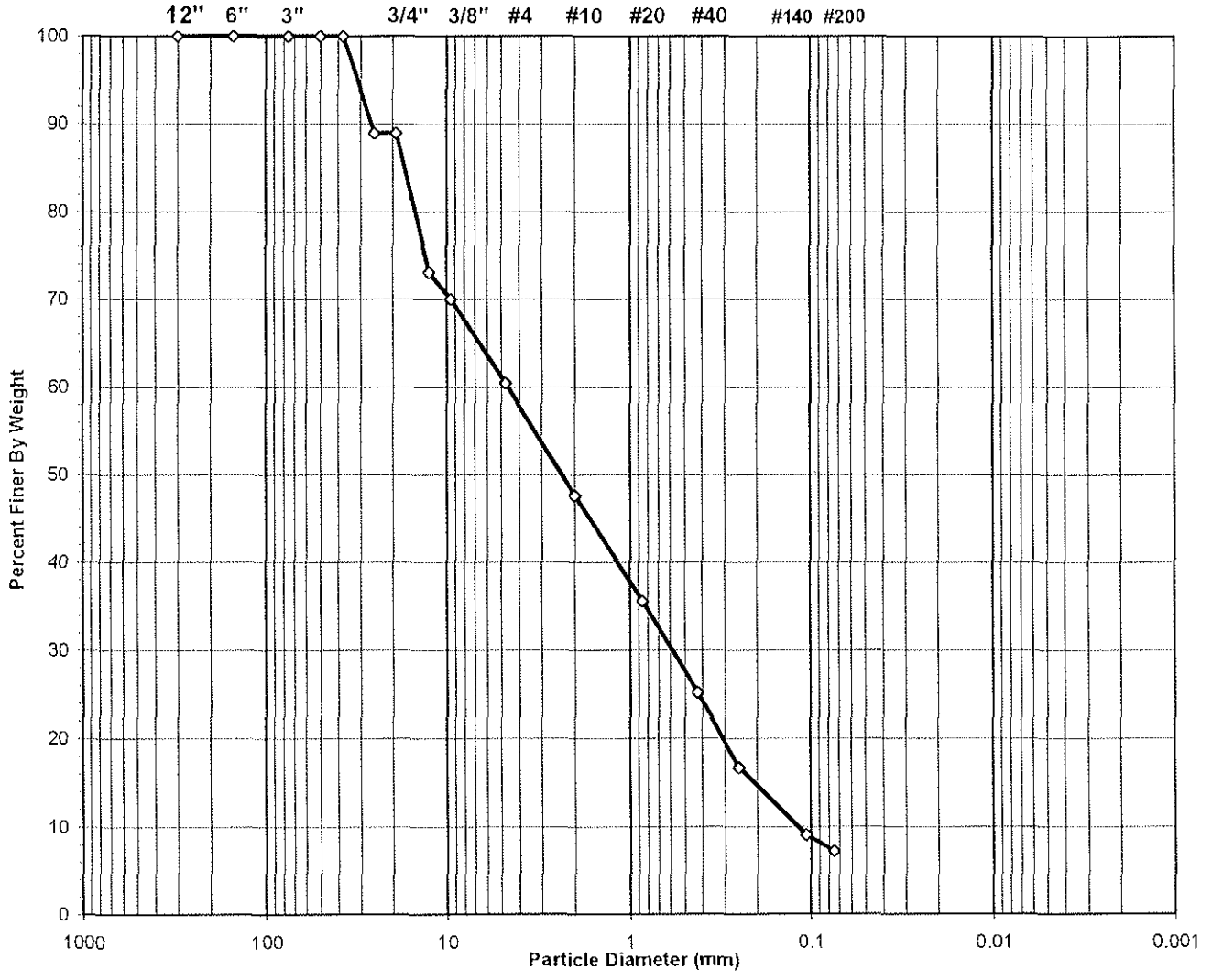
544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	11.5-12.0
Project No.	2004-042-01	Sample No.	MSMW24B
Lab ID	2004-042-01-09	Soil Color	**BROWN**

	SIEVE ANALYSIS		HYDROMETER
USCS	gravel	sand	silt and clay



USCS Symbol	*sp-sm, ASSUMED*	**D60 =**	**4.6**	**CC =**	**0.6**
USCS Classification	*POORLY GRADED SAND WITH SILT AND GRAVEL*	**D30 =**	**0.6**	**CU =**	**39.0**
		D10 =	**0.1**		

Tested By JP Date 02/19/04 Checked By Jem Date 2-20-04

 DCN: CT-S3C DATE 6-25-98 REVISION: 2 C:\MSOFFICE\EXCEL\PrintQ\W437.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	11.5-12.0
Project No.	2004-042-01	Sample No.	MSMW24B
Lab ID	2004-042-01-09	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	552	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	350.10	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	349.63	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	81.96	Weight of Tare (gm)	NA
Weight of Water (gm)	0.47	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	267.67	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.2**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	267.67
Dry Weight - 3/4" Sample (gm)	218.9	Weight of minus #200 material (gm)	19.18
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	248.49
Dry Weight + 3/4" Sample (gm)	29.55		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	29.55	11.04	11.04	88.96	**88.96**
3/4"	19.0	0.00	0.00	11.04	88.96	**88.96**
1/2"	12.50	42.44	15.86	26.90	73.10	**73.10**
3/8"	9.50	8.35	3.12	30.01	69.99	**69.99**
#4	4.75	25.53	9.54	39.55	60.45	**60.45**
#10	2.00	34.36	12.84	52.39	47.61	**47.61**
#20	0.850	32.15	12.01	64.40	35.60	**35.60**
#40	0.425	27.90	10.42	74.82	25.18	**25.18**
#60	0.250	22.69	8.48	83.30	16.70	**16.70**
#140	0.106	20.55	7.68	90.98	9.02	**9.02**
#200	0.075	4.97	1.86	92.83	7.17	**7.17**
Pan	-	19.18	7.17	100.00	-	-

Tested By JP Date 02/19/04 Checked By Jcm Date 2.20-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\[W437.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	13.5-14.0
Project No.	2004-042-01	Sample No.	MSMW24B
Lab ID	2004-042-01-10	Visual Description	**BROWN SAND**
			(Minus No.4 sieve material, airdried)

Replicate Number		**1**		**2**
Pycnometer ID	G	922	G	1004
Weight of Pycnometer + Soil + Water (gm)		727.1		712.7
Temperature, T (°Celsius)		25.4		25.3
Weight of Pycnometer + Water (gm)		684.99		670.05
Tare Number		680		1343
Weight of Tare + Dry Soil (gm)		164.47		165.75
Weight of Tare (gm)		96.86		97.64
Weight of Dry Soil (gm)		67.61		68.11
Specific Gravity of Soil @ T		2.652		2.675
Specific Gravity of Water @ T		0.9970		0.9970
Conversion Factor for Temperature T		0.9987		0.9988
Specific Gravity @ 20° Celsius		2.655		2.678

Average Specific Gravity @ 20° Celsius	2.67

Tested By TO *Date* 02/16/04 *Checked By* Jem *Date* 2-16-04

DCN: CT-S5 Date 9/24/03 Revision: 9 C:\MSOFFICE\EXCEL\PrintQ\W357.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	13.5-14.0
Project No.	2004-042-01	Sample No.	MSMW24B
Lab ID No.	2004-042-01-10		
		Specific Gravity	2.67 Measured

MOISTURE CONTENT:

Tare Number	2327
Wt. of Tare & WS (gm.)	65.54
Wt. of Tare & DS (gm.)	61.39
Wt. of Tare (gm.)	8.15
Wt. of Water (gm.)	4.15
Wt. of DS (gm.)	53.24
Moisture Content (%)	**7.8**

SPECIMEN:

Wt. of Tube & WS (gm.)	436.50
Wt. of Tube (gm.)	129.37
Wt. of WS (gm.)	307.13
Length 1 (in.)	5.078
Length 2 (in.)	4.889
Length 3 (in.)	5.079
Top Diameter (in.)	1.432
Middle Diameter (in.)	1.430
Bottom Diameter (in.)	1.426
Average Length (in.)	5.02
Average Area (in.^{2})	1.60
Sample Volume (cm^3)	131.84
Unit Wet Wt. (gm./ cm^3)	2.33
Unit Wet Wt. (pcf)	145.4
Unit Dry Wt. (pcf)	134.9
Unit Dry Wt. (gm./ cm^3)	2.16
Void Ratio, e	0.24
Porosity, n	**0.19**
Pore Volume (cm^3)	25.1

Tested By: TO Date: 02/11/04 Checked By: Jem Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W418.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

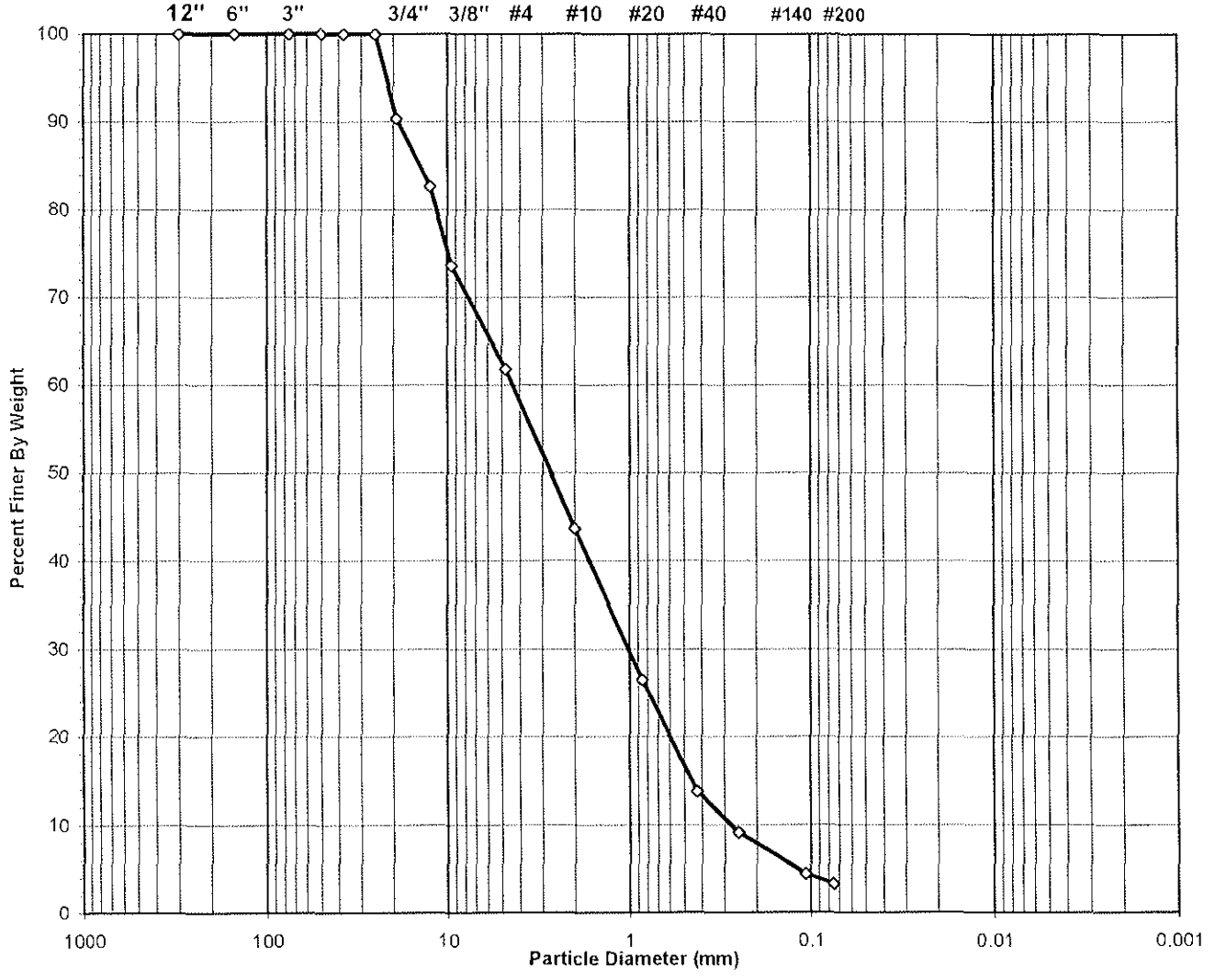
geotechnics
INTEGRITY IN TESTING

SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	13.5-14.0
Project No.	2004-042-01	Sample No.	MSMW24B
Lab ID	2004-042-01-10	Soil Color	**BROWN**

	SIEVE ANALYSIS		*HYDROMETER*
USCS	gravel	sand	silt and clay



USCS Symbol	*sp, ASSUMED*	D60 =	4.4	CC =	0.8
USCS Classification	*POORLY GRADED SAND WITH GRAVEL*	D30 =	1.0	CU =	15.8
		D10 =	0.3		

Tested By JP Date 02/19/04 Checked By Jam Date 2.20.04

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	13.5-14.0
Project No.	2004-042-01	Sample No.	MSMW24B
Lab ID	2004-042-01-10	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	1719A	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	309.80	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	309.62	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	84.75	Weight of Tare (gm)	NA
Weight of Water (gm)	0.18	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	224.87	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**0.1**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	224.87
Dry Weight - 3/4" Sample (gm)	195.8	Weight of minus #200 material (gm)	7.37
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	217.50
Dry Weight + 3/4" Sample (gm)	21.69		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	21.69	9.65	9.65	90.35	**90.35**
1/2"	12.50	17.32	7.70	17.35	82.65	**82.65**
3/8"	9.50	20.30	9.03	26.38	73.62	**73.62**
#4	4.75	26.71	11.88	38.25	61.75	**61.75**
#10	2.00	40.60	18.05	56.31	43.69	**43.69**
#20	0.850	38.72	17.22	73.53	26.47	**26.47**
#40	0.425	28.64	12.74	86.26	13.74	**13.74**
#60	0.250	10.37	4.61	90.87	9.13	**9.13**
#140	0.106	10.62	4.72	95.60	4.40	**4.40**
#200	0.075	2.53	1.13	96.72	3.28	**3.28**
Pan	-	7.37	3.28	100.00	-	-

Tested By JP Date 02/19/04 Checked By Jm Date 2-20-04

DCN: CT-S3C DATE 6-25-98 REVISION: 2

C:\MSOFFICE\EXCEL\PrintQ\[W438.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

Draft for EPA Review

Off-Site Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	2.0-2.5
Project No.	2004-042-01	Sample No.	MSMW10C
Lab ID	2004-042-01-01	Visual Description	**DARK BROWN CLAYEY SILT**
			(Minus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	714.5	702.6
Temperature, T (°Celsius)	20.5	20.4
Weight of Pycnometer + Water (gm)	685.56	670.63
Tare Number	658	2452
Weight of Tare + Dry Soil (gm)	145.35	147.95
Weight of Tare (gm)	97.6	95.79
Weight of Dry Soil (gm)	47.75	52.16
Specific Gravity of Soil @ T	2.538	2.584
Specific Gravity of Water @ T	0.9981	0.9981
Conversion Factor for Temperature T	0.9999	0.9999
Specific Gravity @ 20° Celsius	2.538	2.584

Average Specific Gravity @ 20° Celsius	2.56

Tested By TO *Date* 02/10/04 *Checked By* Jcm *Date* 2-17-04

DCN: CT-S5 Date 9/24/03 Revision: 9 C:\MSOFFICE\EXCEL\PrintQ\[W348.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	2.0-2.5
Project No.	2004-042-01	Sample No.	MSMW10C
Lab ID No.	2004-042-01-01		
		Specific Gravity	2.56 Measured

MOISTURE CONTENT:

Tare Number	274
Wt. of Tare & WS (gm.)	64.64
Wt. of Tare & DS (gm.)	56.70
Wt. of Tare (gm.)	8.13
Wt. of Water (gm.)	7.94
Wt. of DS (gm.)	48.57
Moisture Content (%)	**16.3**

SPECIMEN:

Wt. of Tube & WS (gm.)	342.88
Wt. of Tube (gm.)	129.27
Wt. of WS (gm.)	213.61
Length 1 (in.)	4.807
Length 2 (in.)	4.782
Length 3 (in.)	4.831
Top Diameter (in.)	1.441
Middle Diameter (in.)	1.435
Bottom Diameter (in.)	1.449
Average Length (in.)	4.81
Average Area (in.^{2})	1.63
Sample Volume (cm^3)	128.51
Unit Wet Wt. (gm./ cm^3)	1.66
Unit Wet Wt. (pcf)	103.8
Unit Dry Wt. (pcf)	89.2
Unit Dry Wt. (gm./ cm^3)	1.43
Void Ratio, e	0.79
Porosity, n	**0.44**
Pore Volume (cm^3)	56.8

Tested By: TO Date: 02/10/04 Checked By: Jem Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\Excel\Printq\[W409.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GE Fletcher Paint 100-02-073	Depth (ft)	6.0-7.5
Project No.	2004-042-01	Sample No.	MSMW25C
Lab ID	2004-042-01-02	Visual Description	**BROWN SAND**
			(Minus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	734.6	719.1
Temperature, T (°Celsius)	23.8	24.1
Weight of Pycnometer + Water (gm)	685.19	670.21
Tare Number	532	1301
Weight of Tare + Dry Soil (gm)	180.5	180.21
Weight of Tare (gm)	100.38	101.24
Weight of Dry Soil (gm)	80.12	78.97
Specific Gravity of Soil @ T	2.609	2.626
Specific Gravity of Water @ T	0.9974	0.9973
Conversion Factor for Temperature T	0.9991	0.9991
Specific Gravity @ 20° Celsius	2.611	2.628

Average Specific Gravity @ 20° Celsius	2.62

Tested By TO *Date* 02/10/04 *Checked By* Jom *Date* 2-17-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *C:\MSOFFICE\EXCEL\PrintQ\W349.xls\Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

UNIT WEIGHT WITH POROSITY

(SOP-S37)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	6.0-7.5
Project No.	2004-042-01	Sample No.	MSMW25C
Lab ID No.	2004-042-01-02		
		Specific Gravity	2.62 Measured

MOISTURE CONTENT:

Tare Number	294
Wt. of Tare & WS (gm.)	67.81
Wt. of Tare & DS (gm.)	63.30
Wt. of Tare (gm.)	8.14
Wt. of Water (gm.)	4.51
Wt. of DS (gm.)	55.16
Moisture Content (%)	**8.2**

SPECIMEN:

Wt. of Tube & WS (gm.)	369.56
Wt. of Tube (gm.)	128.19
Wt. of WS (gm.)	241.37
Length 1 (in.)	5.987
Length 2 (in.)	5.980
Length 3 (in.)	5.985
Top Diameter (in.)	1.444
Middle Diameter (in.)	1.448
Bottom Diameter (in.)	1.441
Average Length (in.)	5.98
Average Area (in.^{2})	1.64
Sample Volume (cm^3)	160.62
Unit Wet Wt. (gm./ cm^3)	1.50
Unit Wet Wt. (pcf)	93.8
Unit Dry Wt. (pcf)	86.7
Unit Dry Wt. (gm./ cm^3)	1.39
Void Ratio, e	0.89
Porosity, n	**0.47**
Pore Volume (cm^3)	75.5

Tested By: TO Date: 02/10/04 Checked By: Jm Date: 2-20-04

DCN: CT-S37A DATE: 2-19-04 REVISION:ORIGINAL C:\MSOFFICE\EXCEL\PrintQ\[W410.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

Draft for EPA Review

Monitoring Well Bedrock Geotechnical Data

BBL®

BLASLAND, BOUCK & LEE, INC.

engineers, scientists, economists

Draft for EPA Review

Mill Street Area Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	MW-22C
Client Reference	GE FLETCHER PAINT 100-02-073	Depth (ft)	28.5-28.8
Project No.	2004-042-03	Sample No.	3
Lab ID	2004-042-03-03	Visual Description	**GRAY & BROWN GRANITE** (MInus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	747.3	733.7
Temperature, T (°Celsius)	27.3	27.5
Weight of Pycnometer + Water (gm)	684.73	669.76
Tare Number	685	2334
Weight of Tare + Dry Soil (gm)	198.91	203.33
Weight of Tare (gm)	98.5	101.04
Weight of Dry Soil (gm)	100.41	102.29
Specific Gravity of Soil @ T	2.653	2.667
Specific Gravity of Water @ T	0.9965	0.9964
Conversion Factor for Temperature T	0.9982	0.9982
Specific Gravity @ 20° Celsius	2.658	2.672

Average Specific Gravity @ 20° Celsius	2.67

Tested By TO *Date* 10/13/04 *Checked By* [signature] *Date* 10-18-04

DCN: CT-S5 Date 9/24/03 Revision: 9 *S:\Excel\Excel Qa\Spreadsheets\[GRAVITY.XLS]Sheet1*

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

PERMEABILITY TEST

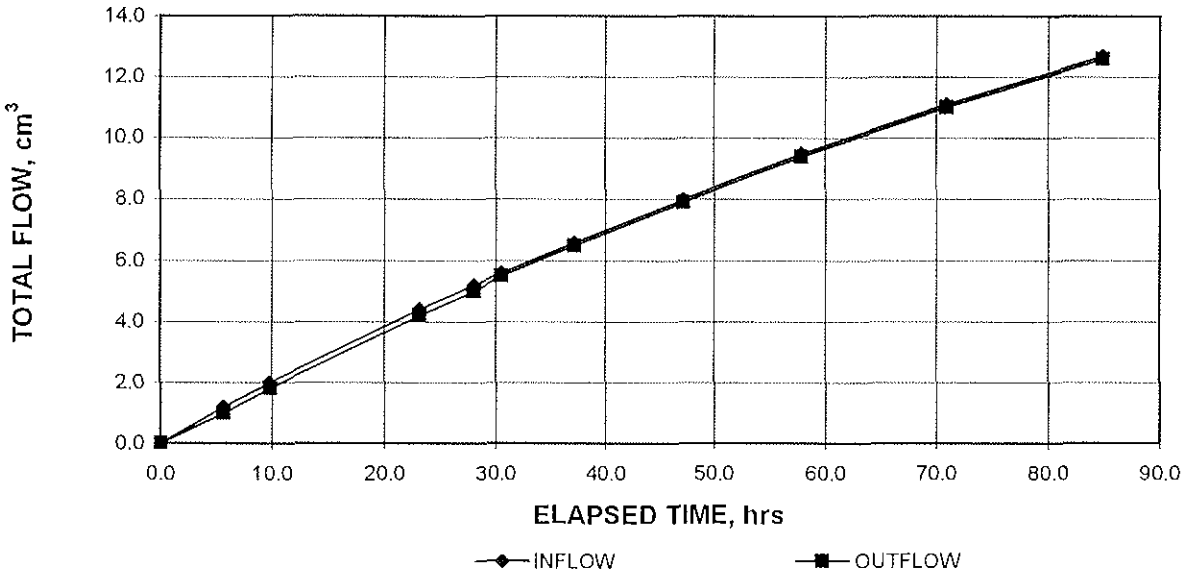
ASTM D 5084-90(Reapproved 1997)
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

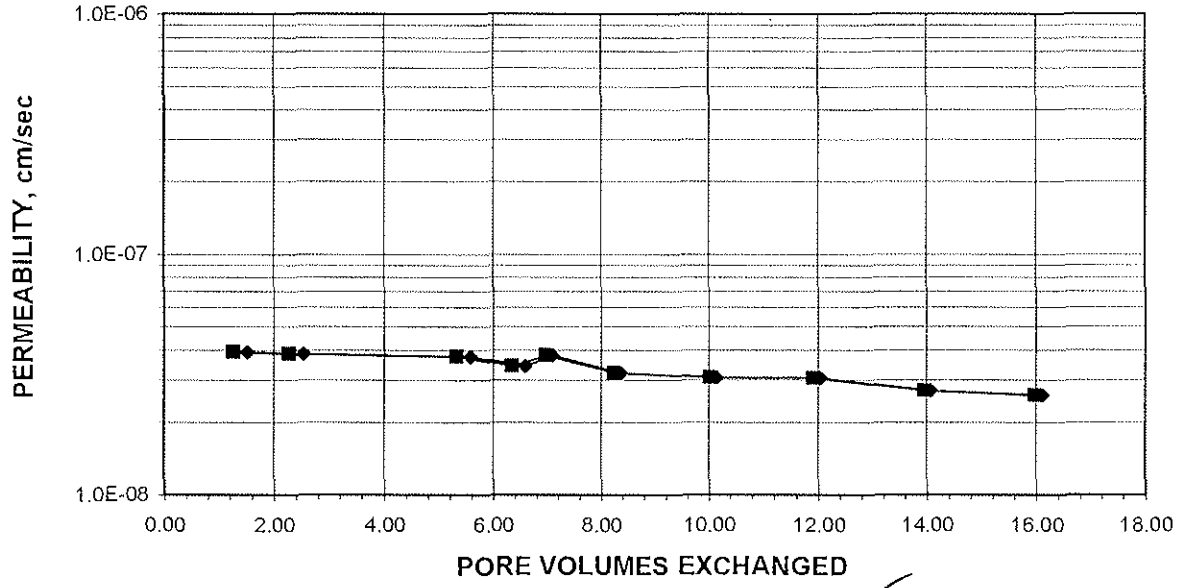
Client	BLASLAND, BOUCK, & LEE	Boring No.	MW-22C
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	28.5-28.8
Project No.	2004-042-03	Sample No.	3
Lab ID No.	2004-042-03-03		

AVERAGE PERMEABILITY = 2.9E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 2.9E-10 m/sec @ 20°C

TOTAL FLOW vs. ELAPSED TIME



PORE VOLUMES EXCHANGED vs. PERMEABILITY



Tested By: JCM Date: 10/08/04 Checked By: BC Date: 10-18-04

DCN: CT-22C DATE: 04-09-03 REVISION:4 C:\MSOFFICE\Excel\Perms\October2004\(042P2.XLS)Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

PERMEABILITY TEST

ASTM D 5084-90(Reapproved 1997)
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK, & LEE	Boring No.	MW-22C
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	28.5-28.8
Project No.	2004-042-03	Sample No.	3
Lab ID No.	2004-042-03-03		
		Specific Gravity	2.67 Measured
		Sample Condition	Undisturbed

Visual Description: GRAY AND BROWN GRANITE

MOISTURE CONTENT:	BEFORE TEST	AFTER TEST
Tare Number	729	564
Wt. of Tare & WS (gm.)	114.86	462.43
Wt. of Tare & DS (gm.)	114.71	460.44
Wt. of Tare (gm.)	86.42	82.39
Wt. of Water (gm.)	0.15	1.99
Wt. of DS (gm.)	28.29	378.05
Moisture Content (%)	**0.5**	**0.5**

SPECIMEN:	BEFORE TEST	AFTER TEST
Wt. of Tube & WS (gm.)	378.94	NA
Wt. of Tube (gm.)	0.00	NA
Wt. of WS (gm.)	378.94	378.93
Length 1 (in.)	1.781	1.773
Length 2 (in.)	1.777	1.803
Length 3 (in.)	1.790	1.787
Top Diameter (in.)	2.479	2.476
Middle Diameter (in.)	2.486	2.486
Bottom Diameter (in.)	2.488	2.490
Average Length (in.)	1.78	1.79
Average Area (in.^{2})	4.85	4.85
Sample Volume (cm^3)	141.61	141.96
Unit Wet Wt. (gm./ cm^3)	2.68	2.67
Unit Wet Wt. (pcf)	167.0	166.6
Unit Dry Wt. (pcf)	166.2	165.7
Unit Dry Wt. (gm./ cm^3)	2.66	2.66
Void Ratio, e	0.00	0.01
Porosity, n	0.00	0.01
Pore Volume (cm^3)	0.4	0.8

Tested By: JCM Date: 10/08/04 Checked By: BC Date: 10-18-04

DCN: CT-22C DATE: 04-09-03 REVISION:4 C:\MSOFFICE\Excel\Perms\October2004\[042P2.XLS]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

PERMEABILITY TEST

ASTM D 5084-90(Reapproved 1997)
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK, & LEE	Boring No.	MW-22C
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	28.5-28.8
Project No.	2004-042-03	Sample No.	3
Lab ID No.	2004-042-03-03		

Pressure Heads (Constant)		Final Sample Dimensions	
Top Cap (psi)	67.5	Sample Length (cm), L	4.54
Bottom Cap (psi)	70.0	Sample Diameter (cm)	6.31
Cell (psi)	75.0	Sample Area (cm^2), A	31.27
Total Pressure Head (cm)	175.8	Inflow Burette Area (cm^2), a-in	0.877
		Outflow Burette Area (cm^2), a-out	0.963
		B Parameter (%)	98

AVERAGE PERMEABILITY = 2.9E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 2.9E-10 m/sec @ 20°C

DATE (mm/dd/yy)	TIME (hr)	TIME (min)	ELAPSED TIME t (hr)	TOTAL INFLOW (cm^3)	TOTAL OUTFLOW (cm^3)	TOTAL HEAD h (cm)	FLOW (0 flow) (1 stop)	TEMP. (°C)	INCREMENTAL PERMEABILITY @ 20°C (cm/sec)
10/11/04	8	14	0.0	0.0	0.0	200.2	0	20.4	NA
10/11/04	13	52	5.6	1.2	1.0	197.8	0	20.7	3.9E-08
10/11/04	18	4	9.8	2.0	1.8	196.1	0	20.7	3.8E-08
10/12/04	7	23	23.2	4.4	4.2	190.8	0	20.0	3.8E-08
10/12/04	12	17	28.1	5.2	5.0	189.1	0	20.5	3.4E-08
10/12/04	14	46	30.5	5.6	5.5	188.1	0	20.5	3.8E-08
10/12/04	21	26	37.2	6.6	6.5	185.9	0	20.5	3.2E-08
10/13/04	7	25	47.2	8.0	7.9	182.9	0	20.0	3.1E-08
10/13/04	18	5	57.9	9.5	9.4	179.6	0	21.0	3.1E-08
10/14/04	7	10	70.9	11.1	11.0	176.1	0	21.0	2.7E-08
10/14/04	21	10	84.9	12.7	12.6	172.7	1	21.0	2.6E-08

Tested By: JCM Date: 10/08/04 Checked By: BHC Date: 10.18.04

DCN: CT-22C DATE: 04-09-03 REVISION:4 C:\MSOFFICE\Excel\Perms\October2004\[042P2.XLS]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	MW-22C
Client Reference	GE FLETCHER PAINT 100-02-073	Depth (ft)	39.0-39.5
Project No.	2004-042-03	Sample No.	2
Lab ID	2004-042-03-02	Visual Description	**GRAY & BROWN GRANITE** (Minus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	746.7	732.2
Temperature, T (°Celsius)	25.7	25.9
Weight of Pycnometer + Water (gm)	684.95	669.98
Tare Number	1653	695
Weight of Tare + Dry Soil (gm)	194.55	197.8
Weight of Tare (gm)	94.37	97.51
Weight of Dry Soil (gm)	100.18	100.29
Specific Gravity of Soil @ T	2.607	2.635
Specific Gravity of Water @ T	0.9969	0.9968
Conversion Factor for Temperature T	0.9987	0.9986
Specific Gravity @ 20° Celsius	2.610	2.638

Average Specific Gravity @ 20° Celsius	2.62

Tested By TO *Date* 10/13/04 *Checked By* BC *Date* 10-18-04

DCN: CT-S5 Date 9/24/03 Revision: 9 C:\MSOFFICE\Excel\PrintQ\[A897.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

PERMEABILITY TEST

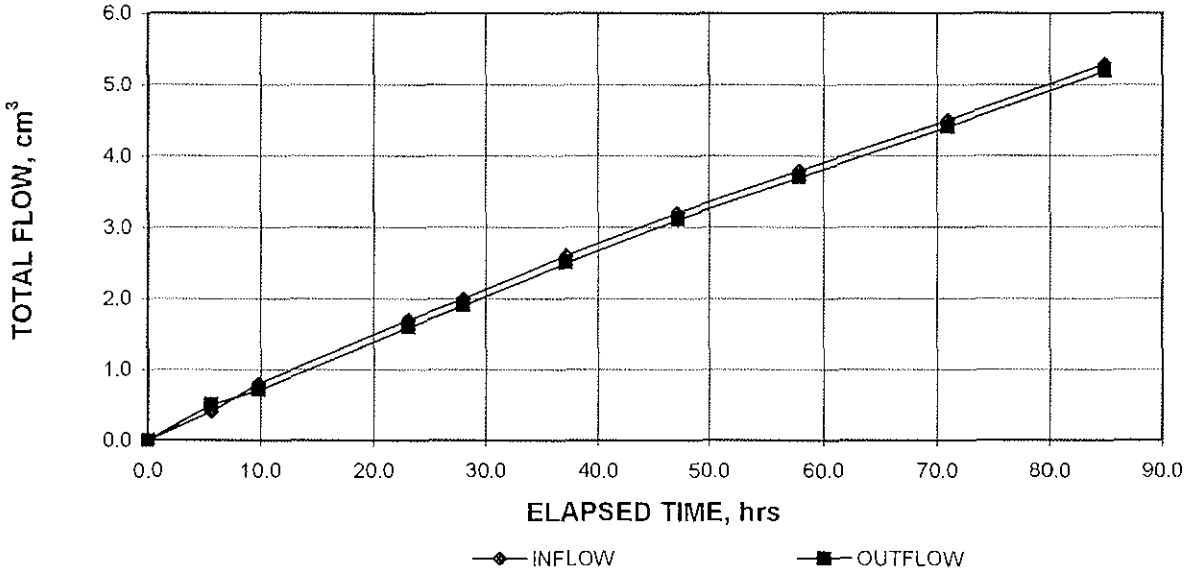
ASTM D 5084-90(Reapproved 1997)
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

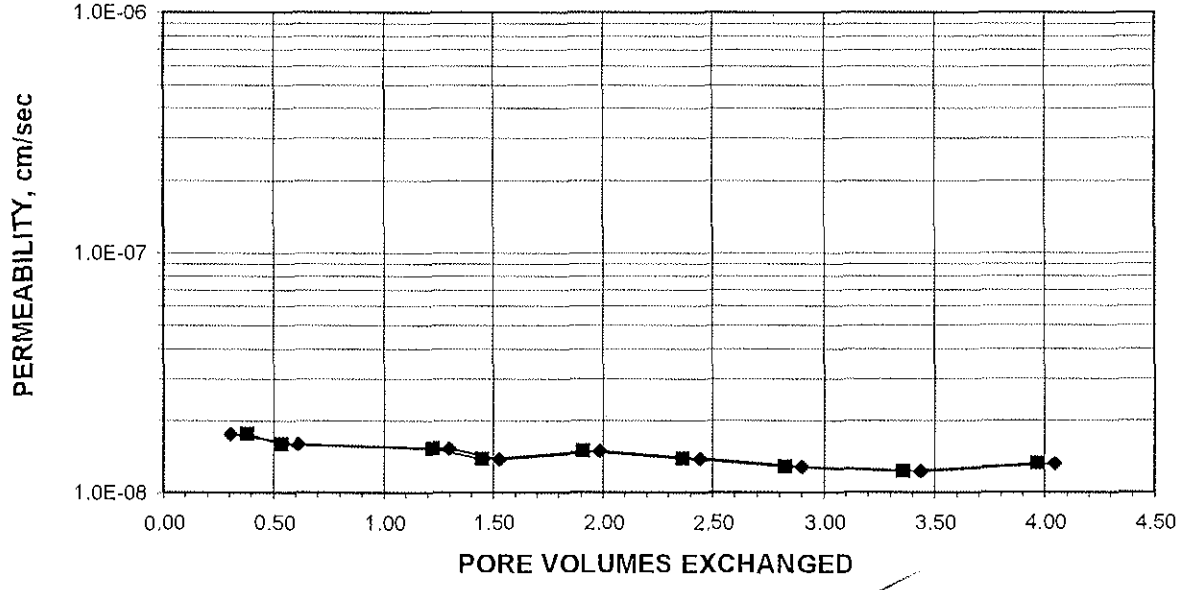
Client	BLASLAND, BOUCK, & LEE	Boring No.	MW-22C
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	39.0-39.5
Project No.	2004-042-03	Sample No.	2
Lab ID No.	2004-042-03-02		

AVERAGE PERMEABILITY = 1.3E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 1.3E-10 m/sec @ 20°C

TOTAL FLOW vs. ELAPSED TIME



PORE VOLUMES EXCHANGED vs. PERMEABILITY



Tested By: JCM Date: 10/08/04 Checked By: [signature] Date: 10-18-04

DCN: CT-22C DATE: 04-09-03 REVISION:4 C:\MSOFFICE\Excel\Perms\October2004\[042P3.XLS]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

PERMEABILITY TEST

ASTM D 5084-90(Reapproved 1997)
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK, & LEE	Boring No.	MW-22C
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	39.0-39.5
Project No.	2004-042-03	Sample No.	2
Lab ID No.	2004-042-03-02		
		Specific Gravity	2.62 Measured
		Sample Condition	Undisturbed

Visual Description: GRAY AND BROWN GRANITE

MOISTURE CONTENT:	BEFORE TEST	AFTER TEST
Tare Number	1713	570
Wt. of Tare & WS (gm.)	199.40	512.55
Wt. of Tare & DS (gm.)	199.18	510.89
Wt. of Tare (gm.)	83.01	84.57
Wt. of Water (gm.)	0.22	1.66
Wt. of DS (gm.)	116.17	426.32
Moisture Content (%)	**0.2**	**0.4**

SPECIMEN:	BEFORE TEST	AFTER TEST
Wt. of Tube & WS (gm.)	427.03	NA
Wt. of Tube (gm.)	0.00	NA
Wt. of WS (gm.)	427.03	427.88
Length 1 (in.)	2.032	2.027
Length 2 (in.)	2.043	2.038
Length 3 (in.)	2.038	2.051
Top Diameter (in.)	2.500	2.500
Middle Diameter (in.)	2.500	2.500
Bottom Diameter (in.)	2.500	2.500
Average Length (in.)	2.04	2.04
Average Area (in.^{2})	4.91	4.91
Sample Volume (cm^3)	163.91	163.99
Unit Wet Wt. (gm./ cm^3)	2.61	2.61
Unit Wet Wt. (pcf)	162.6	162.9
Unit Dry Wt. (pcf)	162.3	162.2
Unit Dry Wt. (gm./ cm^3)	2.60	2.60
Void Ratio, e	0.01	0.01
Porosity, n	0.01	0.01
Pore Volume (cm^3)	1.2	1.3

Tested By: JCM Date: 10/08/04 Checked By: [illegible] Date: 10-18-04

DCN: CT-22C DATE: 04-09-03 REVISION:4 C:\MSOFFICE\Excel\Perms\October2004\[042P3.XLS]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

PERMEABILITY TEST

ASTM D 5084-90(Reapproved 1997)
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK, & LEE	Boring No.	MW-22C
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	39.0-39.5
Project No.	2004-042-03	Sample No.	2
Lab ID No.	2004-042-03-02		

Pressure Heads (Constant)		Final Sample Dimensions	
Top Cap (psi)	67.5	Sample Length (cm), L	5.18
Bottom Cap (psi)	70.0	Sample Diameter (cm)	6.35
Cell (psi)	75.0	Sample Area (cm^2), A	31.67
Total Pressure Head (cm)	175.8	Inflow Burette Area (cm^2), a-in	0.872
		Outflow Burette Area (cm^2), a-out	0.897
		B Parameter (%)	99

AVERAGE PERMEABILITY = 1.3E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 1.3E-10 m/sec @ 20°C

DATE (mm/dd/yy)	TIME (hr)	TIME (min)	ELAPSED TIME t (hr)	TOTAL INFLOW (cm^3)	TOTAL OUTFLOW (cm^3)	TOTAL HEAD h (cm)	FLOW (0 flow) (1 stop)	TEMP. (°C)	INCREMENTAL PERMEABILITY @ 20°C (cm/sec)
10/11/04	8	14	0.0	0.0	0.0	201.7	0	20.4	NA
10/11/04	13	52	5.6	0.4	0.5	200.7	0	20.7	1.8E-08
10/11/04	18	4	9.8	0.8	0.7	200.0	0	20.7	1.6E-08
10/12/04	7	23	23.2	1.7	1.6	198.0	0	20.0	1.5E-08
10/12/04	12	17	28.1	2.0	1.9	197.3	0	20.5	1.4E-08
10/12/04	21	26	37.2	2.6	2.5	196.0	0	20.5	1.5E-08
10/13/04	7	25	47.2	3.2	3.1	194.6	0	20.0	1.4E-08
10/13/04	18	5	57.9	3.8	3.7	193.3	0	21.0	1.3E-08
10/14/04	7	10	70.9	4.5	4.4	191.7	0	21.0	1.2E-08
10/14/04	21	10	84.9	5.3	5.2	189.9	1	21.0	1.3E-08

Tested By: JCM Date: 10/08/04 Checked By: BC Date: 10-18-04

DCN: CT-22C DATE: 04-09-03 REVISION:4
C:\MSOFFICE\Excel\Perms\October2004\[042P3.XLS]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

Draft for EPA Review

Off-Site Monitoring Wells

BBL®

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

geotechnics
INTEGRITY IN TESTING

SPECIFIC GRAVITY

ASTM D 854-98, AASHTO T100-03 (SOP - S5)

Client	BLASLAND, BOUCK & LEE	Boring No.	MW-10C
Client Reference	GE FLETCHER PAINT 100-02-073	Depth (ft)	42.0-42.5
Project No.	2004-042-03	Sample No.	1
Lab ID	2004-042-03-01	Visual Description	RED, GRAY & BROWN GRANITE (Minus No.4 sieve material, airdried)

Replicate Number	**1**	**2**
Pycnometer ID	G 922	G 1004
Weight of Pycnometer + Soil + Water (gm)	746.7	732.4
Temperature, T (°Celsius)	26.1	25.6
Weight of Pycnometer + Water (gm)	684.89	670.02
Tare Number	700	663
Weight of Tare + Dry Soil (gm)	199.2	200.08
Weight of Tare (gm)	98.68	99.07
Weight of Dry Soil (gm)	100.52	101.01
Specific Gravity of Soil @ T	2.596	2.615
Specific Gravity of Water @ T	0.9968	0.9969
Conversion Factor for Temperature T	0.9986	0.9987
Specific Gravity @ 20° Celsius	2.600	2.619

Average Specific Gravity @ 20° Celsius	2.61

Tested By TO Date 10/13/04 Checked By BC Date 10-18-04

DCN: CT-S5 Date 9/24/03 Revision: 9 C:\MSOFFICE\Excel\PrintQ\[A898.xls]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

PERMEABILITY TEST

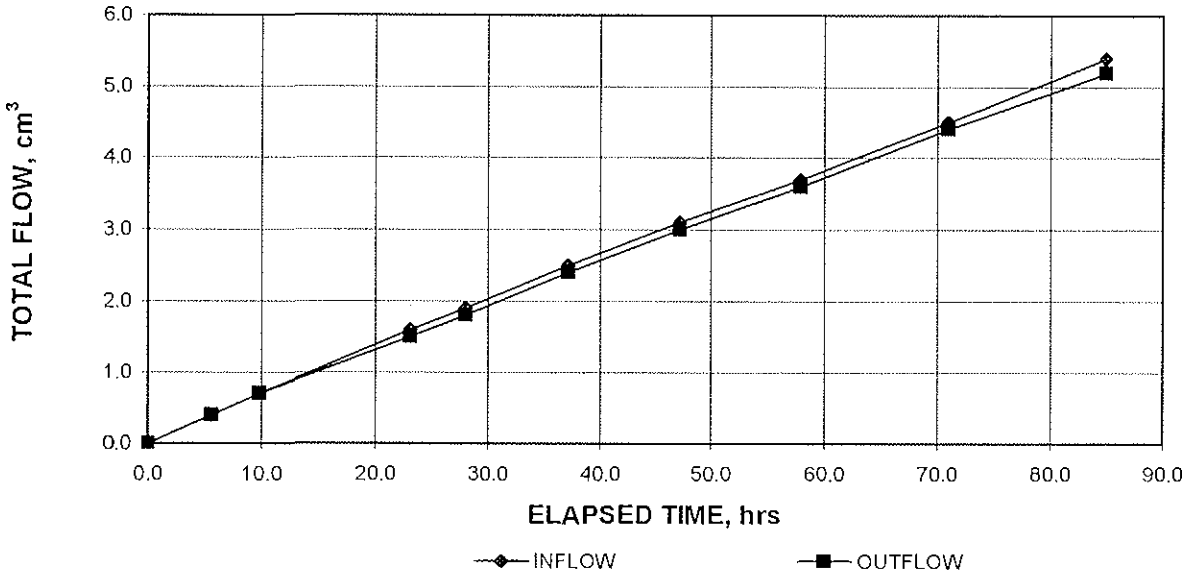
ASTM D 5084-90(Reapproved 1997)
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

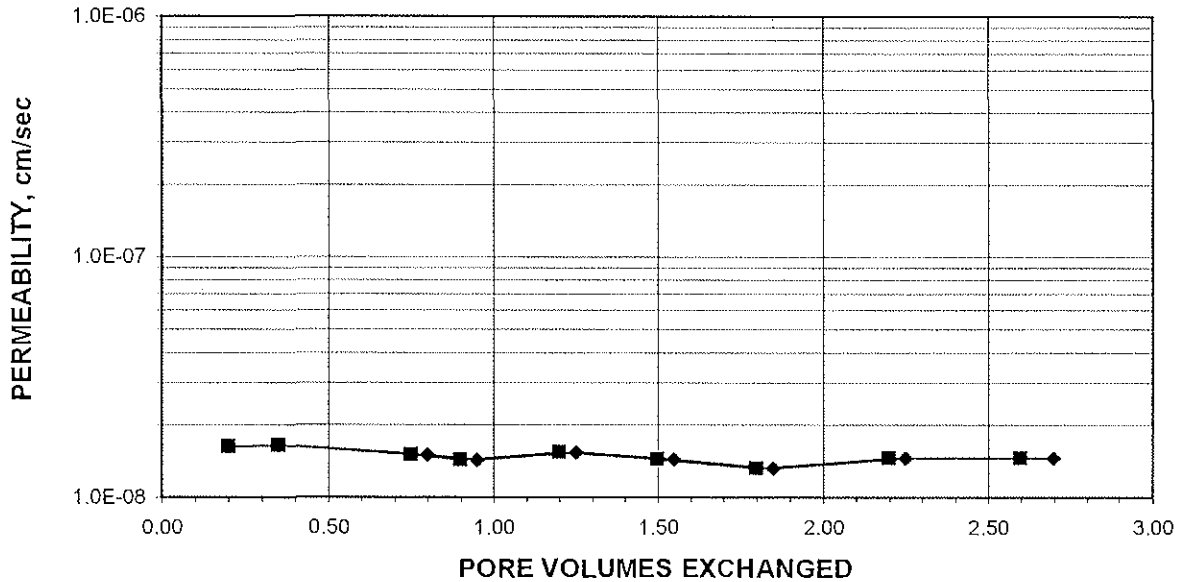
Client	BLASLAND, BOUCK, & LEE	Boring No.	MW-10C
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	42.0-42.5
Project No.	2004-042-03	Sample No.	1
Lab ID No.	2004-042-03-01		

AVERAGE PERMEABILITY = 1.4E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 1.4E-10 m/sec @ 20°C

TOTAL FLOW vs. ELAPSED TIME



PORE VOLUMES EXCHANGED vs. PERMEABILITY



Tested By: JCM Date: 10/07/04 Checked By: BC Date: 10-18-04

DCN: CT-22C DATE: 04-09-03 REVISION:4 C:\MSOFFICE\Excel\Perms\October2004\[042P1.XLS]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

PERMEABILITY TEST

ASTM D 5084-90(Reapproved 1997)
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK, & LEE	Boring No.	MW-10C
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	42.0-42.5
Project No.	2004-042-03	Sample No.	1
Lab ID No.	2004-042-03-01		
		Specific Gravity	2.61 Measured
		Sample Condition	Undisturbed

Visual Description: RED, GRAY, AND BROWN GRANITE

MOISTURE CONTENT:	BEFORE TEST	AFTER TEST
Tare Number	1694	611
Wt. of Tare & WS (gm.)	194.08	526.16
Wt. of Tare & DS (gm.)	193.76	523.96
Wt. of Tare (gm.)	83.86	82.89
Wt. of Water (gm.)	0.32	2.20
Wt. of DS (gm.)	109.90	441.07
Moisture Content (%)	**0.3**	**0.5**

SPECIMEN:	BEFORE TEST	AFTER TEST
Wt. of Tube & WS (gm.)	442.04	NA
Wt. of Tube (gm.)	0.00	NA
Wt. of WS (gm.)	442.04	442.96
Length 1 (in.)	2.113	2.121
Length 2 (in.)	2.114	2.113
Length 3 (in.)	2.122	2.115
Top Diameter (in.)	2.502	2.506
Middle Diameter (in.)	2.505	2.504
Bottom Diameter (in.)	2.509	2.504
Average Length (in.)	2.12	2.12
Average Area (in.^{2})	4.93	4.93
Sample Volume (cm^3)	170.96	170.87
Unit Wet Wt. (gm./ cm^3)	2.59	2.59
Unit Wet Wt. (pcf)	161.4	161.8
Unit Dry Wt. (pcf)	160.9	161.0
Unit Dry Wt. (gm./ cm^3)	2.58	2.58
Void Ratio, e	0.01	0.01
Porosity, *n*	0.01	0.01
Pore Volume (cm^3)	2.1	2.0

Tested By: JCM Date: 10/07/04 Checked By: [illegible] Date: 10-18-04

DCN: CT-22C DATE: 04-09-03 REVISION:4 C:\MSOFFICE\Excel\Perms\October2004\[042P1.XLS]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

PERMEABILITY TEST

ASTM D 5084-90(Reapproved 1997)
(SOP-S22A & S22B)

geotechnics
INTEGRITY IN TESTING

Client	BLASLAND, BOUCK, & LEE	Boring No.	MW-10C
Client Project	GE Fletcher Paint 100-02-073	Depth (ft.)	42.0-42.5
Project No.	2004-042-03	Sample No.	1
Lab ID No.	2004-042-03-01		

Pressure Heads (Constant)		Final Sample Dimensions	
Top Cap (psi)	67.5	Sample Length (cm), L	5.38
Bottom Cap (psi)	70.0	Sample Diameter (cm)	6.36
Cell (psi)	75.0	Sample Area (cm^2), A	31.79
Total Pressure Head (cm)	175.8	Inflow Burette Area (cm^2), a-in	0.874
		Outflow Burette Area (cm^2), a-out	0.872
		B Parameter (%)	98

AVERAGE PERMEABILITY = 1.4E-08 cm/sec @ 20°C
AVERAGE PERMEABILITY = 1.4E-10 m/sec @ 20°C

DATE (mm/dd/yy)	TIME (hr)	TIME (min)	ELAPSED TIME t (hr)	TOTAL INFLOW (cm^3)	TOTAL OUTFLOW (cm^3)	TOTAL HEAD h (cm)	FLOW (0 flow) (1 stop)	TEMP. (°C)	INCREMENTAL PERMEABILITY @ 20°C (cm/sec)
10/11/04	8	14	0.0	0.0	0.0	201.2	0	20.4	NA
10/11/04	13	52	5.6	0.4	0.4	200.3	0	20.7	1.6E-08
10/11/04	18	4	9.8	0.7	0.7	199.6	0	20.7	1.6E-08
10/12/04	7	23	23.2	1.6	1.5	197.7	0	20.0	1.5E-08
10/12/04	12	17	28.1	1.9	1.8	197.0	0	20.5	1.4E-08
10/12/04	21	26	37.2	2.5	2.4	195.6	0	20.5	1.5E-08
10/13/04	7	25	47.2	3.1	3.0	194.3	0	20.0	1.4E-08
10/13/04	18	5	57.9	3.7	3.6	192.9	0	21.0	1.3E-08
10/14/04	7	10	70.9	4.5	4.4	191.1	0	21.0	1.5E-08
10/14/04	21	10	84.9	5.4	5.2	189.1	1	21.0	1.5E-08

Tested By: JCM Date: 10/07/04 Checked By: BK Date: 10-18-04

DCN: CT-22C DATE: 04-09-03 REVISION:4 C:\MSOFFICE\Excel\Perms\October2004\[042P1.XLS]Sheet1

544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

Draft for EPA Review

Monitoring Well Construction Logs

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Draft for EPA Review

Elm Street Area Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Arthur D Little

Monitoring Well Design

Boring No.	EB-01A
Client	EPA - REGION 1
Project	FLETCHER
Case No.	62360-03

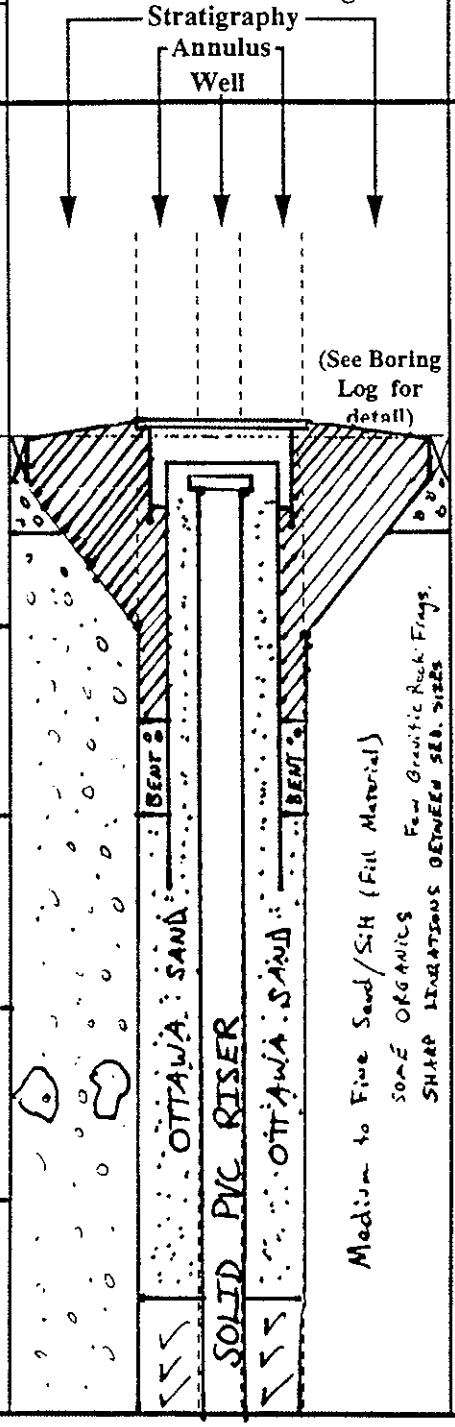
Date Start 10-29-91	Date Complete 11-7-91	Hole Diameter 8"	Casing Size 4¼" I.D.

Contractor FLORES	Geologist K. ELLINGWOOD
Drill Method HOLLOW STEM AUGER/DRIVE + WASH	Boring Depth 63.5'
Type Of Rig ACKER AD2 DIESEL	Grout method VOLCLAY PUMPED THROUGH 'TREMMY' PIPE
Datum DOUBLE NOTCH ON RIM OF PVC RISER	Development Method N.A.

Notes

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)
0.0	002 PCB	
1.0		Liner
2.0	GEO #1	2.8 H.S.
	001 PCB	
3.0		
4.0	GEO #2	4.1 H.S.
	003 PCB	
5.0		
6.0	GEO #3	128 H.S.
7.0		
8.0	004 PCB	
9.0		
10.0	GEO #4	642 H.S.

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____

Elevation Top Of Riser Pipe 2605.52'

Elevation Ground Surface 2606.23'

(surveyed elevations)

(depth from ground surface)

Type of Surface Casing FLUSH MOUNT CAST MANHOLE/STEEL STANDPIPE

I.D. Surface Casing 12"

Type Of Riser Pipe SCHEDULE 40 PVC

I.D. Riser Pipe 2"

Diameter Of Borehole 8"

Type Of Backfill VOLCLAY BENTONITE GROUT SLURRY

Type Of Seal BENTONITE

Depth To Top Of Seal 38.1'

Type Of Sand Pack OTTAWA SAND

Depth To Top Of Sand Pack 41.1'

Type Of Screen SCHEDULE 40 PVC

Slot Size .010

I.D. Screen 2"

Screened Interval 43.1 - 53.1'

Depth To Bottom Of Well 53.1'

Depth To Bottom Of Borehole 63.5

◯ = Rock Fragment

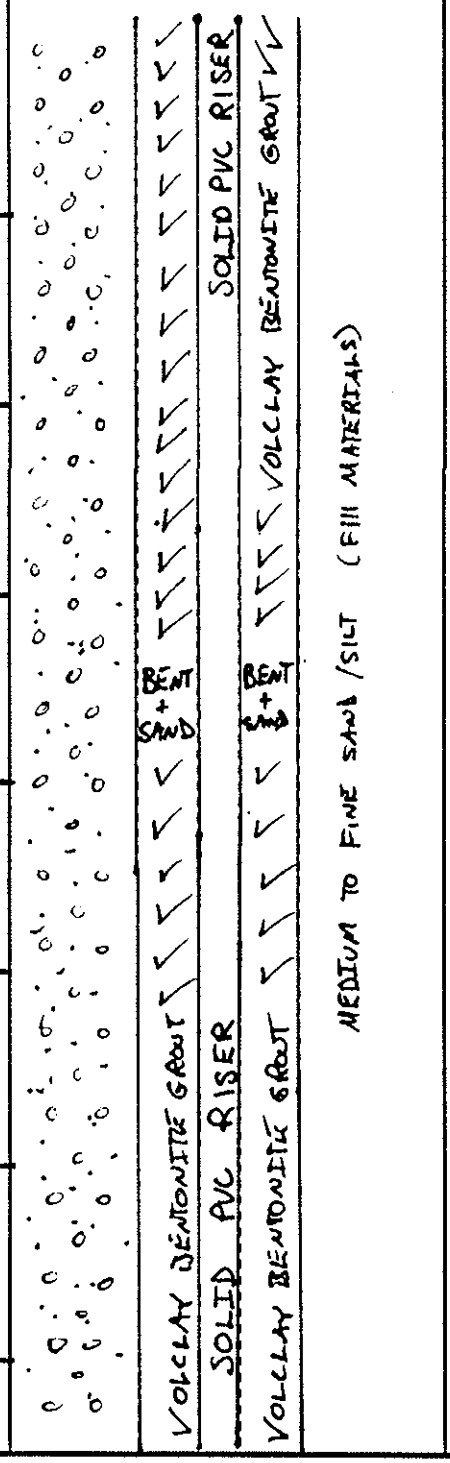
Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-01A
Client EPA-REGION 1
Project FLETCHER PAINT
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Notes and Comments
10.0	015 PCB		V = VOLCLAY BENTONITE GROUT
11.0			
12.0	GEO #5	497 H.S.	
	016 PCB		
13.0			
14.0	GEO #6	69 H.S.	
	017 PCB		
15.0			WOOD & Vermiculite-like' Decomposed organics.
16.0	GEO #7	635 H.S.	Silts
	018 PCB		
17.0			
18.0	GEO #8	554 H.S.	
	019 PCB		
19.0			
20.0	GEO #9	NONE	
	020 PCB 021 DUP		
21.0	(CLP @ EB-01A)		
22.0	GEO #10	7.5 H.S.	
	022 PCB		
23.0			
24.0	GEO #11	2.5 H.S.	
	023 PCB		
25.0	NOT ENOUGH		

Well Construction Diagram (Stratigraphy, Annulus, Well)



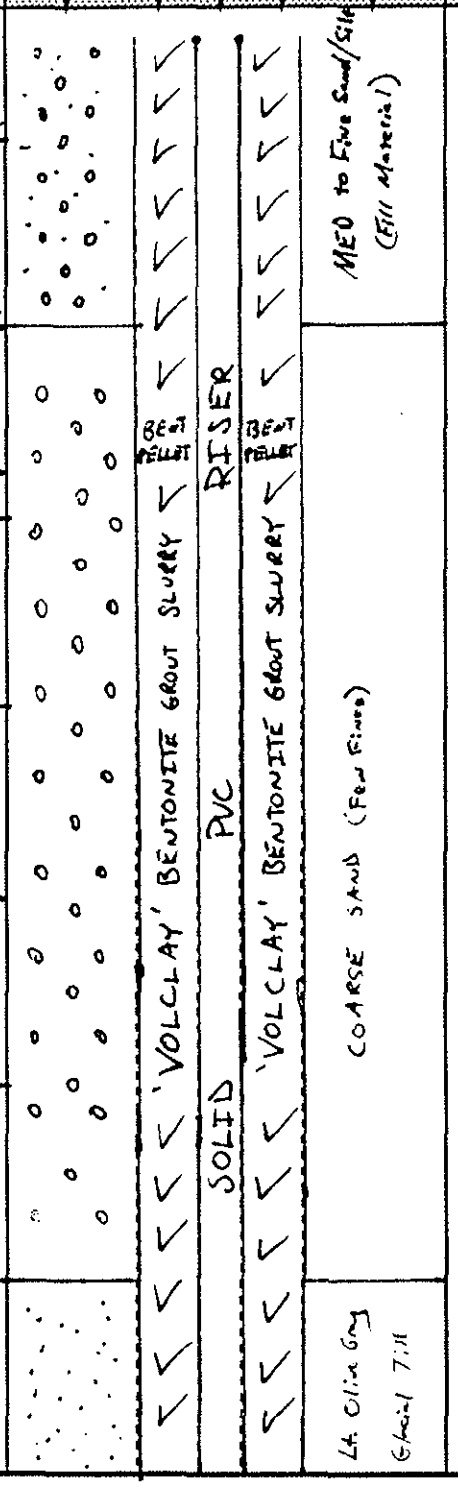
Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-01A
Client EPA- REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Notes and Comments
25.0			
26.0	GEO #12	No RECOVERY	
27.0			
28.0	GEO #13	No RECOVERY	
	024 PCB		Bottles and China Plate found in Spoon.
29.0	GEO #14	4.1 H.S.	
30.0	025 PCB		
31.0			Bentonite chips + Sand used to Bridge Annular space in void areas: often at water table.
32.0	GEO #15	9.7 H.S.	
	027 PCB		
33.0			
34.0	GEO #16	10.3 H.S.	
35.0			
36.0	GEO #17	4.2 H.S.	
37.0			
38.0	GEO #18	3.3 H.S.	
	028 PCB		
39.0			
40.0	GEO #19	176 H.S.	

Well Construction Diagram



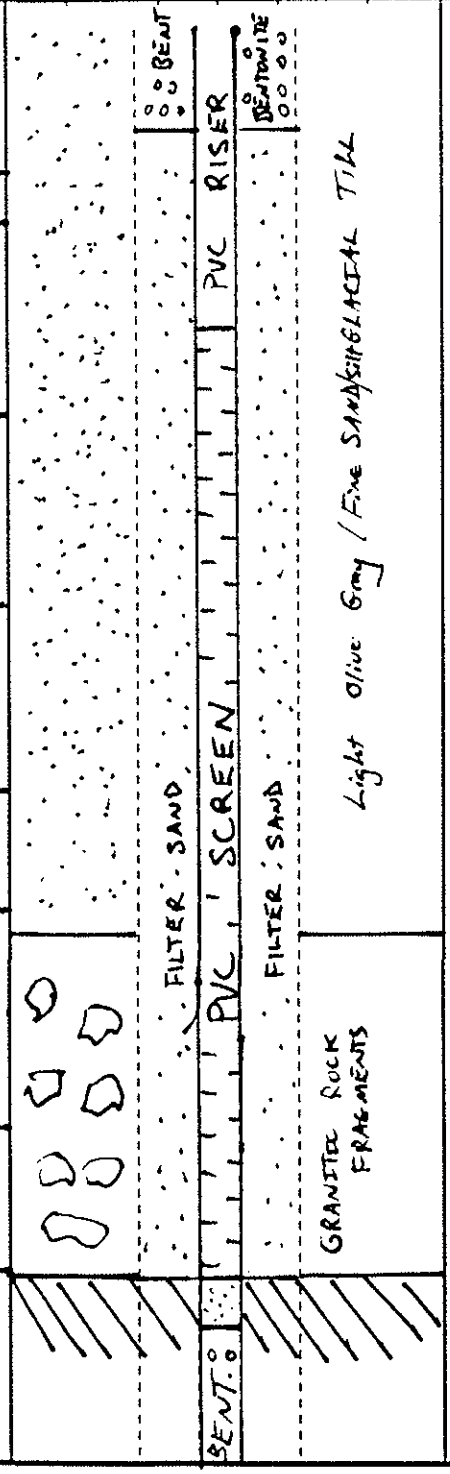
Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-01A
Client EPA-REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram	Notes and Comments
40.0	17312-002 CLP			ORANGE STAINS - LAYERING OF COLOR
41.0	GEO #20	56 H.S.		
42.0				
43.0				
44.0	GEO #21	16 H.S.		
	029 PCB			
45.0				
46.0	GEO #22	4.5 H.S.		
47.0				
48.0	GEO #23	3.8 H.S		
49.0	GEO #24	3.1 H.S		
50.0				WEATHERED ROCK
51.0				
52.0	033 PCB			
53.0	GEO #25	2.5 H.S.		BEDROCK
54.0				
55.0				

Well Construction Diagram — Stratigraphy: Annulus: Well

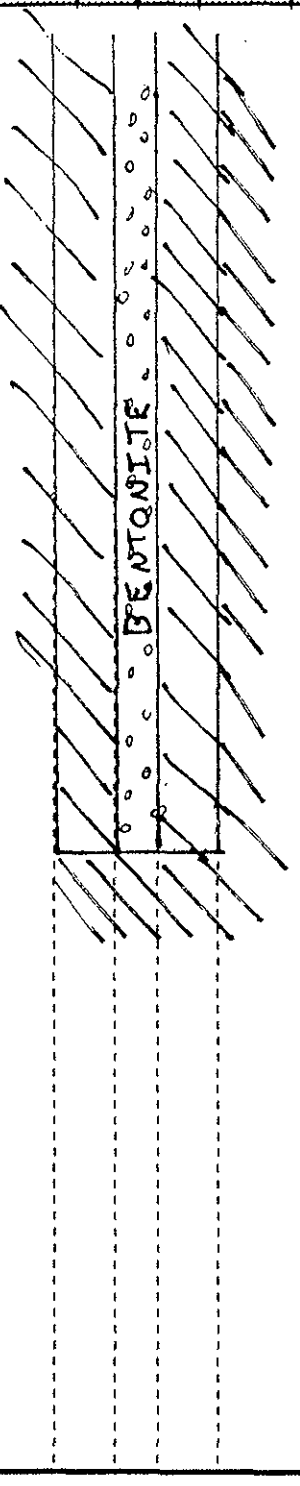


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-01A
Client EPA-REGION 1
Project FLETCHER PAINT
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram	Notes and Comments
56.0				
57.0				(Milford GRANITE)
58.0				Highly Fractured Moderate Gray Salt + Pepper granite with coarse grained Feldspar section 59.1-59.7'
59.0				
60.0				
61.0				Coarse Grained Feldspar 61.8' to 63'
62.0				
63.0				
64.0				END OF HOLE
65.0				



Arthur D Little

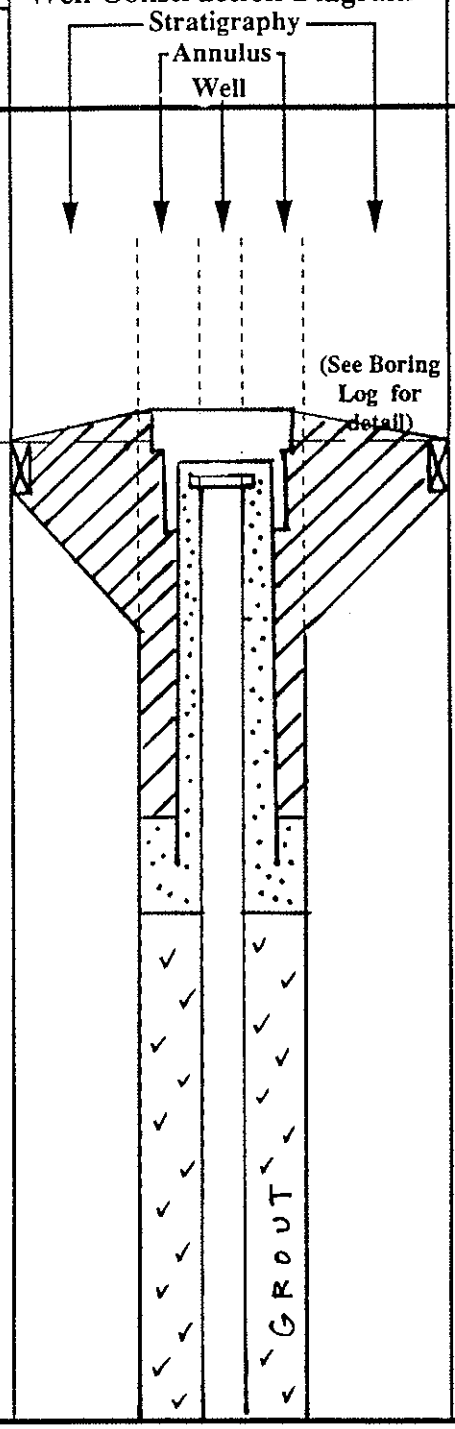
Monitoring Well Design

Boring No. MW-01b
Client EPA Region I
Project Fletcher Paint
Case No. 62360-03

Date Start 11/5/91	Date Complete 11/5/91	Hole Diameter 8"	Casing Size 4"

Contractor Flores	Geologist K. Ellingwood, M. Schreiber
Drill Method Hollow stem auger	Boring Depth 33'
Type Of Rig Acker AD-2	Grout method pumped from surface
Datum Ground surface	Development Method

Notes For detailed stratigraphy, see soil boring log for MW-01a

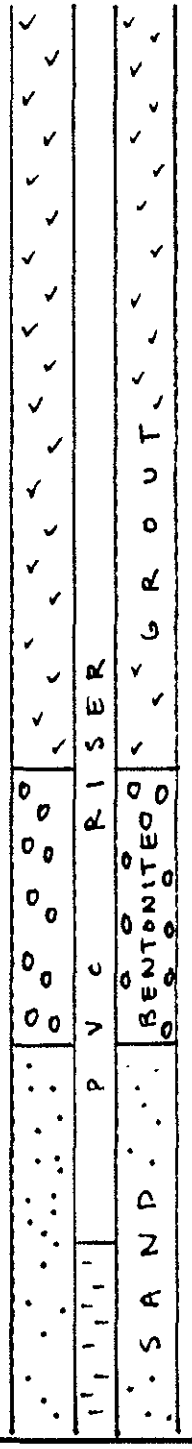
Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram	Construction Specifications
0.0	REFER TO MW-01A FOR GEOLOGIC DESCRIPTION			Elevation Top Of Casing _____
				Elevation Top Of Riser Pipe 265.57'
				Elevation Ground Surface 266.20'
				(surveyed elevations)
				(depth from ground surface)
				Type of Surface Casing steel standpipe, cast manhole
				I.D. Surface Casing 5" locking steel, 12" manhole
				Type Of Riser Pipe Schedule 40 PVC
				I.D. Riser Pipe 2"
				Diameter Of Borehole 8"
				Type Of Backfill bentonite-grout slurry
				Type Of Seal bentonite
				Depth To Top Of Seal 18'
				Type Of Sand Pack Ottawa sand
				Depth To Top Of Sand Pack 21'
				Type Of Screen Schedule 40 PVC
				Slot Size .010"
				I.D. Screen 2"
				Screened Interval 23-33'
				Depth To Bottom Of Well 33'
				Depth To Bottom Of Borehole 33'

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-01b
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

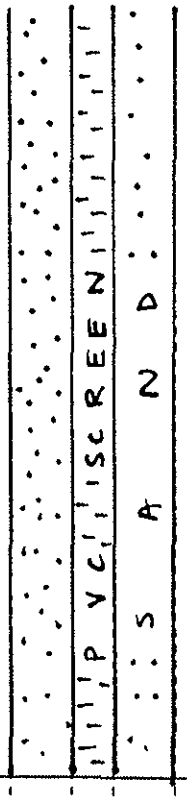


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-01b
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

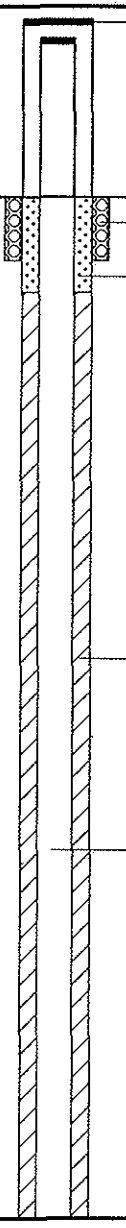
Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
25.0				
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				BOTTOM OF BOREHOLE AT 33'



Date Start/Finish: 12/18/03 **Drilling Company:** GeoSearch **Driller's Name:** D. Crawford **Drilling Method:** Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** CME-75 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** NA **Casing Size:** NA	**Northing:** 122,449.0 **Easting:** 987,561.4 **Casing Elevation:** 261.18 **Borehole Depth:** 30' below grade **Surface Elevation:** 258.6 **Geologist:** Leanne Roulier	**Well/Boring ID:** MW-2AR/ESSB-J18 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	260								
0		NA	CAP	NA	NA	NA	NA		Cap approximately 1' thick. Dark brown SILT.
		1	0-1	1.0	10 7	7	0.5		Gray-brown fine SAND, little medium Sand, trace blue plastic, firm, moist. [FILL]
	255	2	1-3	0.5	7 7 8 7	15	9.0		Medium brown fine to medium SAND, trace coarse Sand, loose, moist. [FILL]
5		3	3-5	0.6	8 10 10 12	20	2.5		Dark brown SILT, some fine Sand, little angular Gravel, trace coarse Sand, loose, moist. [FILL]
		4	5-7	0.4	4 3 3 2	6	11.2		Dark brown SILT, little fine Sand, trace Brick, loose, moist. [FILL]
	250	5	7-9	0.2	2 2 3 2	5	NA		Same as above, trace angular Gravel and wood, loose, moist. [FILL]
10		6	9-11	0.0	4 4 5 4	9	NA		No recovery 10-12' bgs.
	245	7	11-13	1.2	5 6 8 8	14	240 (--)		Light brown fine to medium SAND, trace coarse Sand, moderately well sorted, trace Wood, loose, moist.
15		8	13-15	0.5	3 3 4 3	7	60.2		

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal; (--) = Negative Shake Test Result.

Client:
General Electric Company

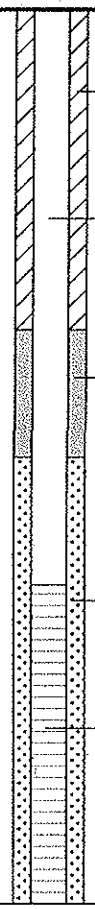
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-2AR/ESSB-J18

Borehole Depth: 30' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
		9	15-17	1.2	2, 4, 4, 2	8	40		Light brown fine to medium SAND, trace coarse Sand and rounded fine Gravel, well sorted, loose.
	240	10	17-19	1.5	4, 3, 3, 2	6	5.2		Alternating layers (1-2' thick) of medium brown fine to medium SAND grading to coarse SAND at 22' bgs, moderately well sorted, little Iron staining. Trace coarse Sand. ose, moist at 18' bgs.
20		11	19-21	0.1	10, 10, 13, 10	23	NA		
	235	12	21-23	1.2	15, 15, 13, 11	28	4.1		
25		13	23-25	1.6	6, 8, 11, 12	19	2.0		Medium brown very fine to fine SAND grading to coarse SAND with some medium Sand, moderately well sorted, some Iron staining in the coarse layers.
		14	25-27	2.0	17, 20, 27, 33	47	15.2		Light brown very fine SAND, little Silt, some medium Sand, trace subangular and subrounded Gravel grading to coarse SAND with little Iron staining.
	230	15	27-29	2.0	37, 45, 49, 60/1"	94	1.2		Medium brown subangular medium GRAVEL, some fine Sand, trace Silt, very poorly sorted, dense.
30									Split spoon refusal at 29' bgs. Auger refusal at 30' bgs.
	225								
35									

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal; (--) = Negative Shake Test Result.

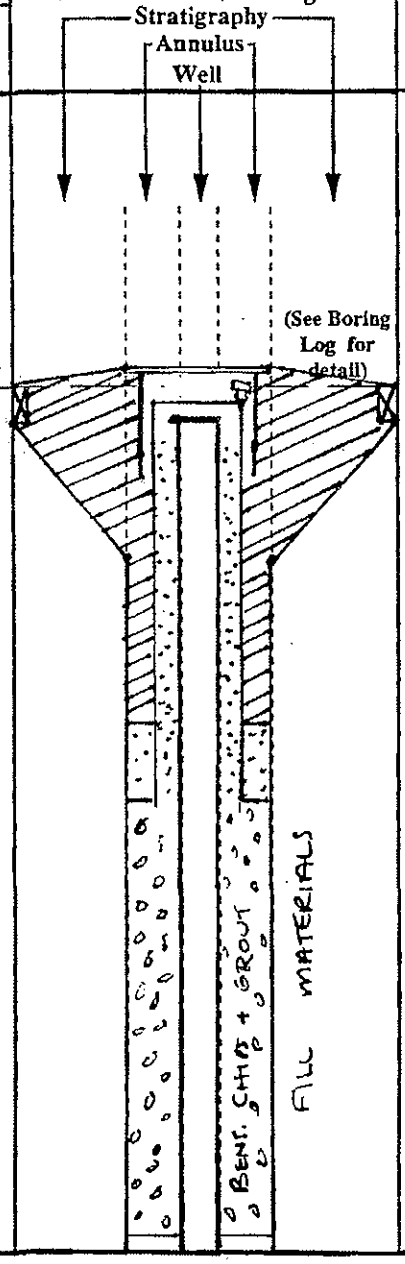
Arthur D Little

Monitoring Well Design

Boring No. MW-02B
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

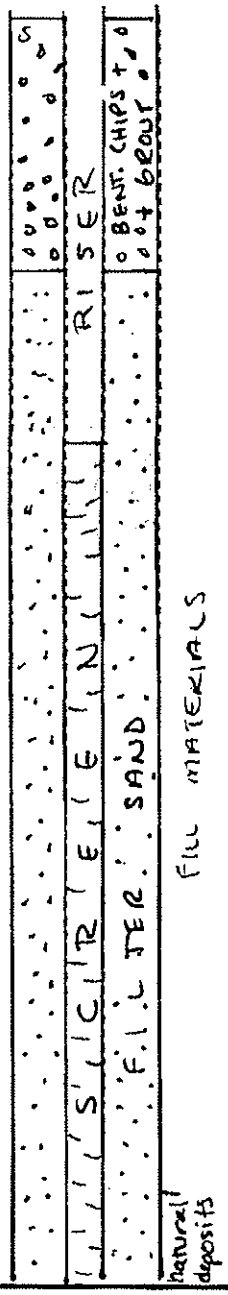
Date Start 11/21/91	Date Complete 11/22/91	Hole Diameter 12"	Casing Size 6" ID HSA
Contractor FLORES DRILLING		Geologist C. PIAGGIO	
Drill Method HSA		Boring Depth 30.0'	
Type Of Rig ACKER AD-2		Grout method BENT. CHIPS + GROUT	
Datum —		Development Method —	

Notes one sample collected from 25'-28' (see page 3/3)

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram	Construction Specifications
0.0	No samples taken; for sample data refer to MW-02A			Elevation Top Of Casing _____
				Elevation Top Of Riser Pipe 258.75'
				Elevation Ground Surface 259.13
				(surveyed elevations)
				(depth from ground surface)
				Type of Surface Casing Standpipe (cast manhole/steel)
				I.D. Surface Casing 5" locking steel/12" manhole
				Type Of Riser Pipe Schedule 40 PVC
				I.D. Riser Pipe 2" ø
				Diameter Of Borehole 12" ø
				Type Of Backfill GROUT + BENT. CHIPS
				Type Of Seal Bent. chips + VOLCLAY
				Depth To Top Of Seal 5'
				Type Of Sand Pack OTTAWA SAND
				Depth To Top Of Sand Pack 13'
				Type Of Screen PVC slotted
				Slot Size .010
				I.D. Screen 2" ø
				Screened Interval 15'-30'
				Depth To Bottom Of Well 30'
				Depth To Bottom Of Borehole 30'

Arthur D Little	Monitoring Well Design (Continuation Page)	Boring No. MW-02B Client EPA-Region 1 Project Fletcher Paint Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				

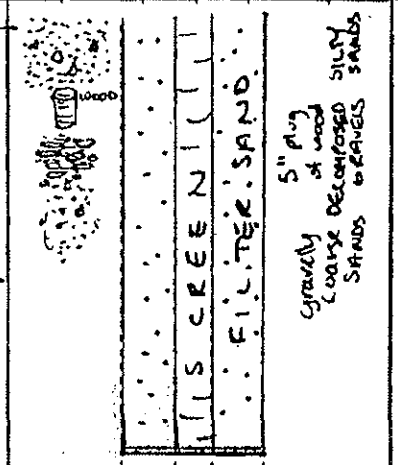


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-02B
Client EPA-Region 1
Project Fletcher Paint
Case No. 62-360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
25.	GEO S-1 189 CLP PCB Redox. Gr. Sz.	0.0 ppm		
26.				
27.				
28.				
29.				
31.				
32.				
33.				
34.				
35.				
36.				
37.				
38.				
39.				



Arthur D Little

Monitoring Well Design

Boring No. MW-03a
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

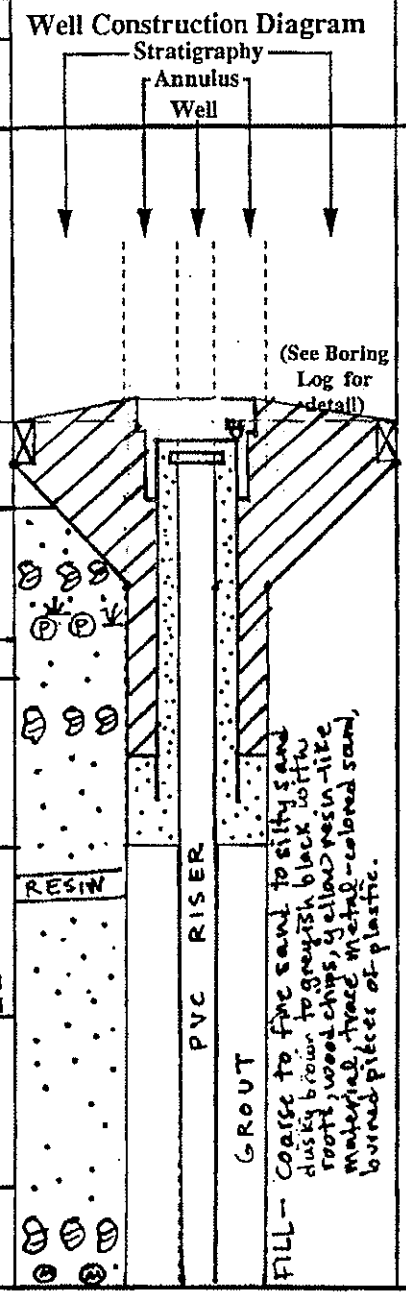
Date Start 11/8/91	Date Complete 11/15/91	Hole Diameter 12"	Casing Size —

Contractor Flores	Geologist C Piaggio, M Schreiber
Drill Method Hollow stem auger	Boring Depth 56.05'
Type Of Rig Acker AD-2	Grout method pumped from surface
Datum top of notch on rim of PVC riser	Development Method

Notes (S) = wood chip, (P) = burned piece of plastic, (M) = metal-colored sand

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)
0.0		
1.0	Geo S-1 FPW 065	0 ppm
2.0		HS-9.7
3.0		
4.0	Geo S-2 FPW 064	0.5 ppm
5.0		HS - 5.3
6.0	Geo S-4A S-4B FPW 066	1000 ppm
7.0		HS A>79999 B>79999
8.0	None	—
9.0	Geo S-5 FPW 067 DUP 068	50 ppm
10.0		

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____
Elevation Top Of Riser Pipe 250.34'
Elevation Ground Surface 251.46'
(surveyed elevations)
(depth from ground surface)
Type of Surface Casing steel standpipe, cast manhole
I.D. Surface Casing 5" locking steel, 12" manhole
Type Of Riser Pipe Schedule 40 PVC
I.D. Riser Pipe 2"
Diameter Of Borehole 8"
Type Of Backfill bentonite-grout slurry
Type Of Seal bentonite pellets
Depth To Top Of Seal 29.5'
Type Of Sand Pack Ottawa sand
Depth To Top Of Sand Pack 33.6'
Type Of Screen Schedule 40 PVC
Slot Size .010
I.D. Screen 2"
Screened Interval 46.0'-56.0'
Depth To Bottom Of Well 46.0'
Depth To Bottom Of Borehole 56.05'

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-03a
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0		HS = 3358		Key: wood chip; burned piece of plastic; metal-colored sand
11.0	Geo 56 FPW 069	500 ppm	RESIN	
12.0		HS = 5627		
13.0	Geo S-7 FPW 070	500 ppm	RESIN	
14.0		HS = 4618		
15.0	Geo S-8 FPW 071	50 ppm		
16.0		HS = 3223		
17.0	Geo S-9 FPW 072	100 ppm		
18.0		HS = 1720		
19.0	Geo S-10	50 ppm		
20.0		HS = 222		
21.0	Geo S-11	7.0 ppm		
22.0		HS = 441		
23.0	Geo S-12 FPW 073	30 ppm		
24.0		HS = 251		
25.0				

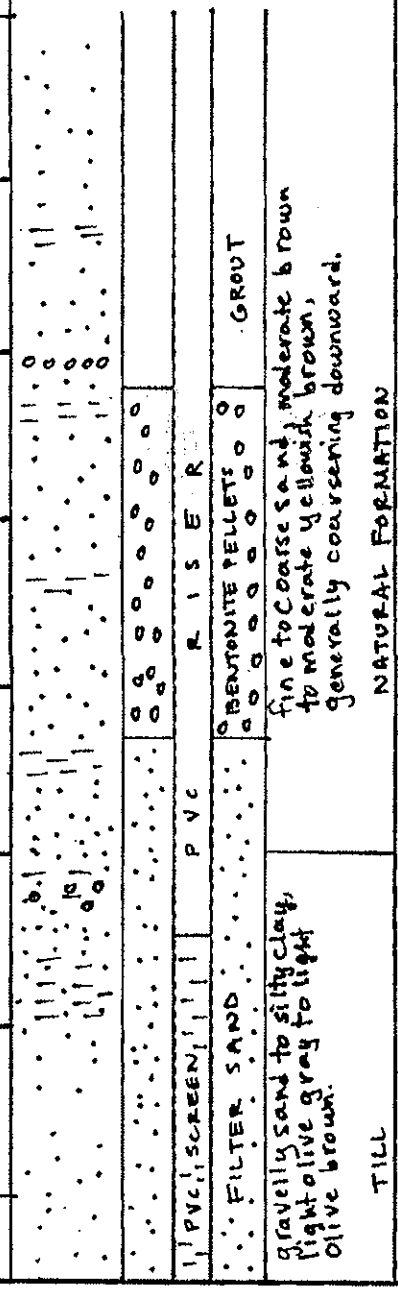
Stratigraphy:
- PVC RISER
- GROUT
- FILL — Coarse to fine sand to silty sand, dusky brown to greyish black with roots, wood chips, yellow resin-like material, trace metal-colored sand, burned pieces of plastic.
- NATURAL FORMATION — fine to coarse sand, moderate brown to moderate yellowish brown, generally coarsening downward.

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-03a
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
25.0	GeoS-13	100 ppm		
26.0		HS = 421		
27.0	GeoS-14	38 ppm		
28.0		HS = 169		
29.0	GeoS-15 FPW 074	38 ppm		
31.0		HS = 79.5		
	GeoS-16	30 ppm		
32.0		HS = 148		
33.0	GeoS-17	0.0 ppm		
34.0		HS = 62.2		
35.0	GeoS-18	100 ppm		
36.0		HS = 97.2		
37.0	GeoS-19	2.0 ppm		
38.0		HS = 19.4		
39.0	GeoS-20	4.0 ppm		
40.0				

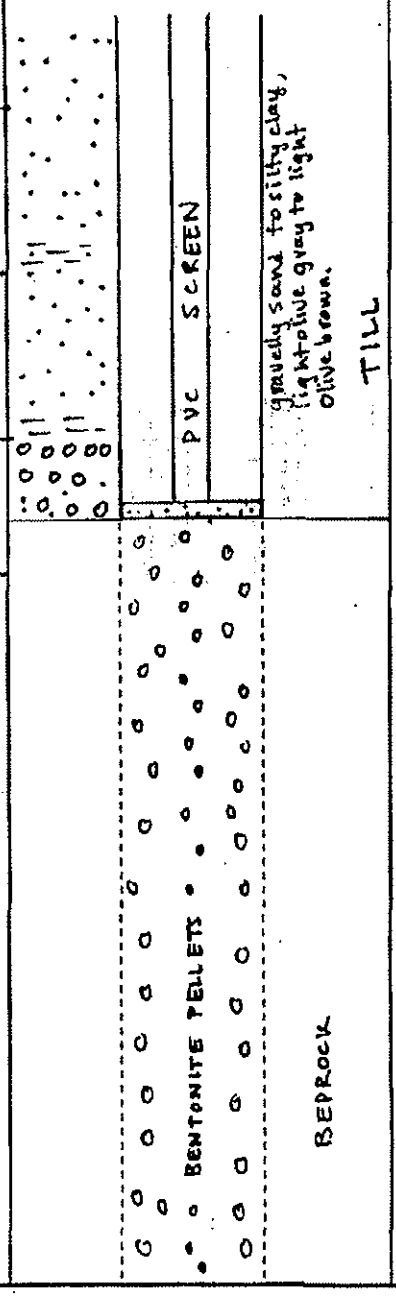


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-03a
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

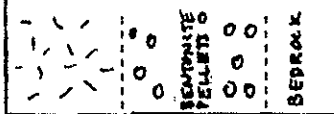
Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
40.0				
41.0		HS 5.8		
	GeoS-21 FPW 078	0.5 ppm		
42.0				
43.0		HS = 4.0		
	GeoS-22	1.0 ppm		
44.0				
45.0		HS = 5.1		
	GeoS-23 FPW? CLP } 081	0.0 ppm		
46.0		HS = 15.8		
47.0				
48.0				
49.0				
50.0				
51.0				
52.0				
53.0				
54.0				
55.0				



Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-03a
Client EPA Regional
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
55.0				
56.0				END OF BOREHOLE AT 56.05'
57.0				

Arthur D Little

Monitoring Well Design

Boring No.	MW-03B
Client	EPA Region 1
Project	Fletcher Paint
Case No.	62360-03

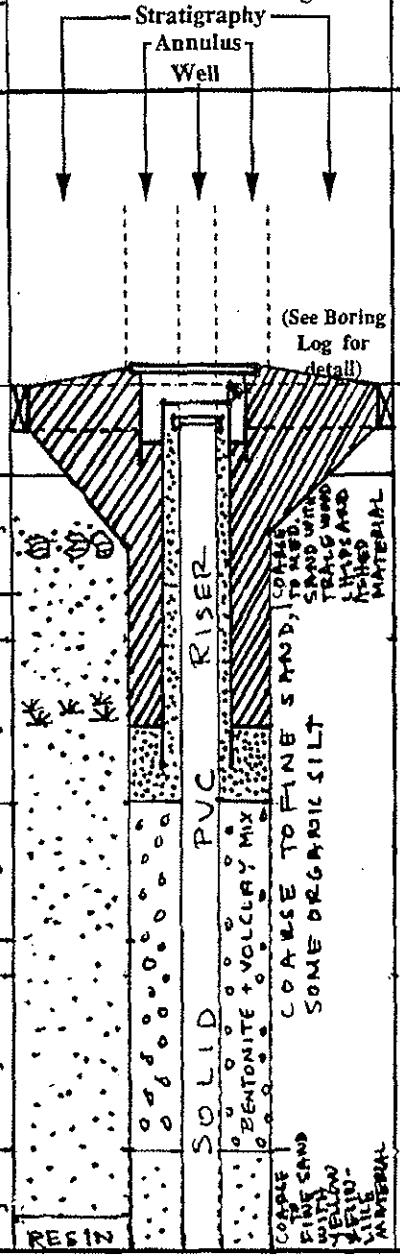
Date Start 11/13/91	Date Complete 11/14/91	Hole Diameter 4"	Casing Size 4" ϕ

Contractor FLORES DRILLING	Geologist C. Piaggio / M. Schreiber
Drill Method HOLLOW STEM AUGERS	Boring Depth 21.5'
Type Of Rig ACKER AD-2	Grout method VOLCLAY + BENTONITE (PUMPED FROM SURFACE)
Datum DOUBLE NOTCH ON P.O.M. PVC RISER	Development Method —

Notes

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)
0.0		
1.0		
2.0	087 PCB GEO S-1A GEO S-1B	1.6 ppm A: 33 H.S.=B: 3.2
3.0		
4.0	089 PCB 090 PCB DUP GEO S-2	0.0 ppm H.S: 18.0
5.0		
6.0	092 PCB GEO S-3	0.4 ppm H.S.: 28.0
7.0		
8.0	091 CLP 091 PCB GEO S-4	3.0 ppm H.S: 17.0
9.0		
10.0	095 PCB GEO S-5	20.0 ppm

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____

Elevation Top Of Riser Pipe 250.59'

Elevation Ground Surface 251.10'

(surveyed elevations)

(depth from ground surface)

Type of Surface Casing CAST MANHOLE / STEEL STANDPIPE

I.D. Surface Casing 5" LOCKING STEEL / 12" MAN HOLE

Type Of Riser Pipe PVC Schedule 40

I.D. Riser Pipe 2.0"

Diameter Of Borehole 4.0"

Type Of Backfill GROUT (VOLCLAY)

Type Of Seal Bentonite pellets + volclay

Depth To Top Of Seal 5.0'

Type Of Sand Pack OTTAWA SAND

Depth To Top Of Sand Pack 9.0'

Type Of Screen PVC Schedule 40

Slot Size .010

I.D. Screen 2.0"

Screened Interval 21.0' - 11.0'

Depth To Bottom Of Well 21.0

Depth To Bottom Of Borehole 21.5'

(R) = RESIN-LIKE MATERIAL

(W) = WOOD

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-03B
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.			RESIN	
11.		H.S. = 350		
	096 CLP 096 PCB		RESIN.	
12.	GEO S-6A S-6B	500 ppm A = 400 H.S. = B = 250		
13.	101 PCB		RESIN	
14.	GEO S-7	4000 ppm		
15.		H.S. = 900		
	100 CLP + 102 DUP 100 PCB		RESIN	
16.		1200 ppm		
17.	GEO S-8		RESIN	
18.		1200 ppm		
19.				
20.	POST-SAMPLE EQ. BLANK 105	500 ppm		
21.		H.S. = 900 ppm	RESIN	
22.				
23.				
24.0				

Stratigraphy: FILTER SAND; COARSE TO MEDIUM SAND, TRACE PEBBLES, TRACE SILT, 20-21': PIECES OF RESIN-LIKE MATERIAL, (R) = RESIN-LIKE MATERIAL; RESIN MATERIAL TO FINE SAND, WOOD CHIPS, ROOTS X4", (B) = WOOD; COARSE TO FINE SAND WITH RESIN-LIKE MATERIAL, WOOD CHIPS 25"

Annulus: SCREEN

Well: PVC

Arthur D Little

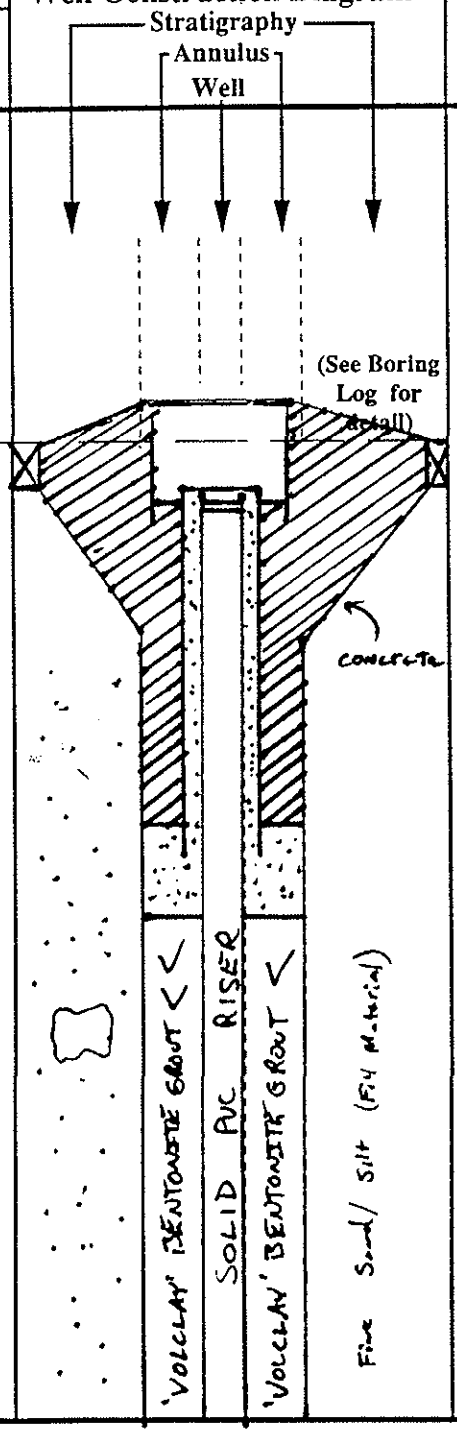
Monitoring Well Design

Boring No.	EB-04A
Client	EPA-REGION 1
Project	FLETCHER
Case No.	62360-03

Date Start 11-20-91	Date Complete 11-25-91	Hole Diameter 4"	Casing Size 4¼ I.D.

Contractor CON-TEC	Geologist K. ELLINGWOOD
Drill Method H.S.A. / DRIVE SPOON-THEN CASE	Boring Depth 50'
Type Of Rig DIEDRICH D-50	Grout method 'VOLCLAY' BENTONITE GROUT PUMPED-TREMMY
Datum DOUBLE NOTCH ON PVC RISER	Development Method N.A.

Notes

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram
0.0	REFER TO EB-04C FOR GEOLOGIC DESCRIPTION		
1.0			
2.0			
3.0			
4.0			
5.0			
6.0			
7.0			
8.0			
9.0			
10.0			

Construction Specifications

Elevation Top Of Casing _____

Elevation Top Of Riser Pipe 247.18'

Elevation Ground Surface 247.76'

(surveyed elevations)

(depth from ground surface)

Type of Surface Casing CAST MANHOLE/STEEL STANDPIPE

I.D. Surface Casing 5" LOCKING STEEL / 12" MANHOLE

Type Of Riser Pipe PVC SCHEDULE 40

I.D. Riser Pipe 2.0"

Diameter Of Borehole 4.0"

Type Of Backfill 'VOLCLAY' BENTONITE GROUT SLURRY

Type Of Seal BENTONITE CHIPS

Depth To Top Of Seal 35.0'

Type Of Sand Pack OTTAWA SAND

Depth To Top Of Sand Pack 38'

Type Of Screen PVC SCHEDULE 40

Slot Size .010

I.D. Screen 2.0"

Screened Interval 40-50'

Depth To Bottom Of Well 50'

Depth To Bottom Of Borehole 50

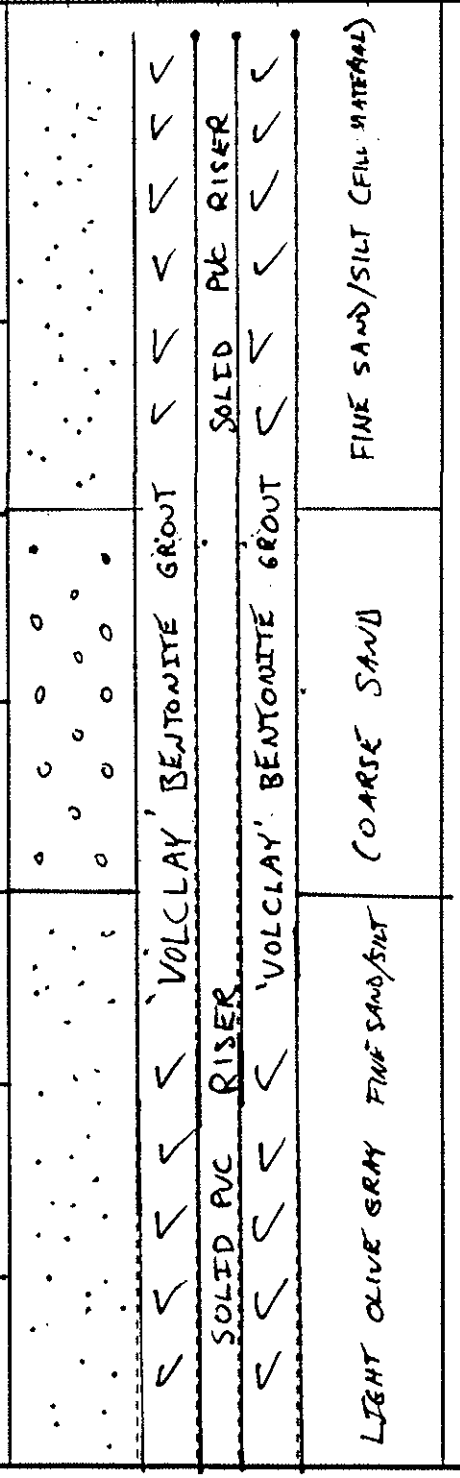
⬭ = BOULDER

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-04A
Client EPA-REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0				
11.0				
12.0				
13.0	146 PCB			
14.0				
15.0	GEO #1	76 H.S.		
	147 PCB			
16.0				
17.0	GEO #2	11.2 H.S.		
	148 CLP			
18.0				
19.0	GEO #3	18.7 H.S.		
	149 PCB			
20.0				
21.0	GEO #4	3.9 H.S.		
	150 PCB			
22.0				
23.0	GEO #5	20.8 H.S.		
24.0				
25.0				

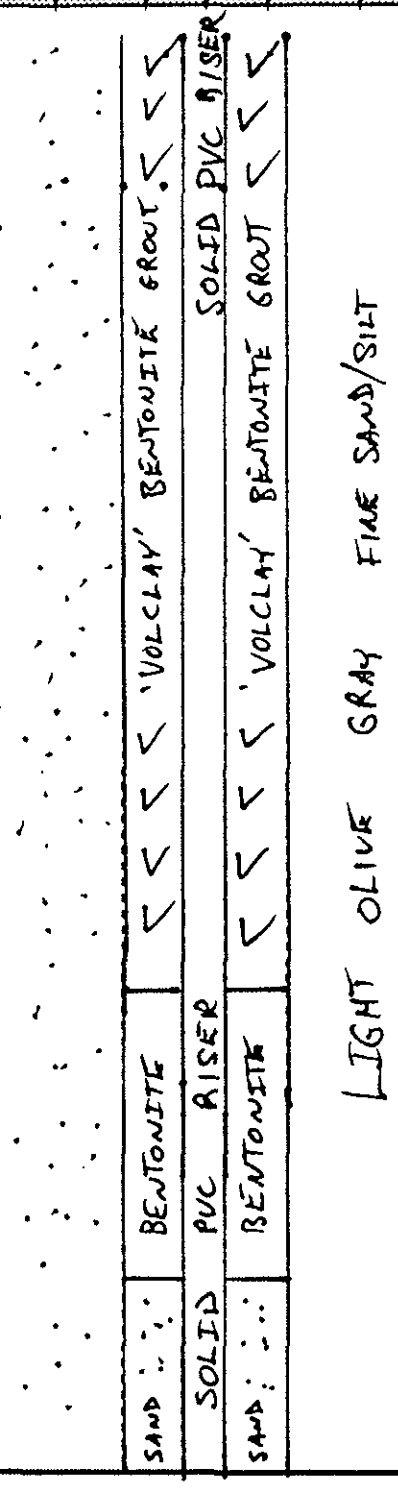


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-04A
Client EPA-REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
25.0	159 PCB			
26.0				
27.0	GEO #6	7.1 H.S.		
28.0				
29.0				
30.0	160 PCB			
31.0				
32.0	GEO #7	5.7 H.S.		
33.0				
34.0				
35.0	161 PCB			
36.0				
37.0	GEO #8	12.9 H.S.		
38.0				
39.0				
40				



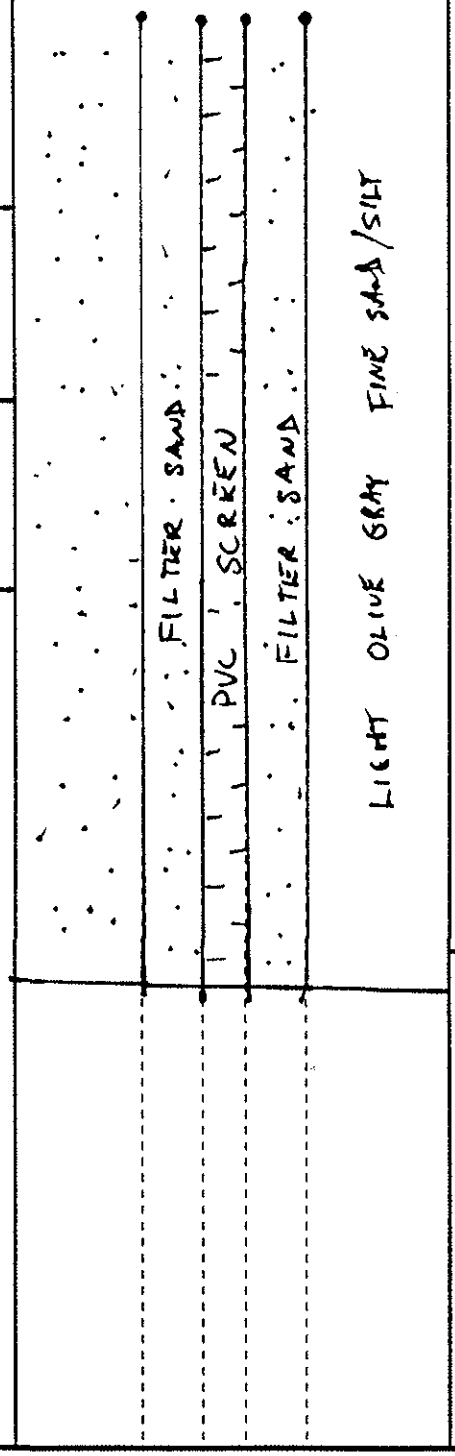
Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-04A
Client EPA - REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Notes and Comments
40.0	171 PCB		
41.0			
42.0	GEO #9		
	172 173 PCB-DUP		
43.0			
44.0	GEO #10		
	174 PCB		
45.0			
46.0	GEO #11		
47.0			
48.0			
49.0			
50.0			ROCK? END OF HOLE

Well Construction Diagram

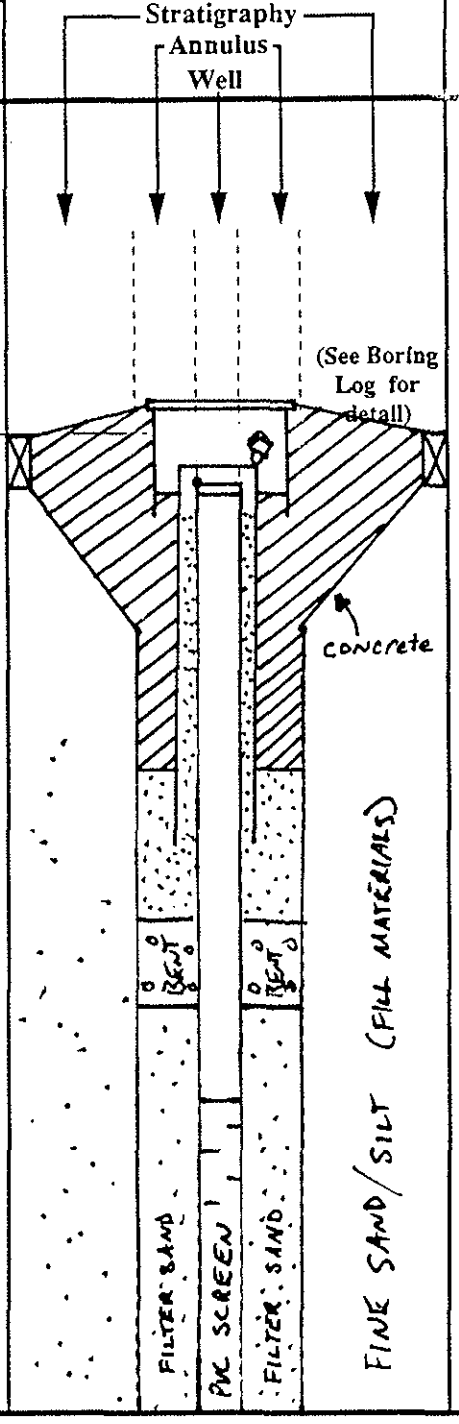


Arthur D Little

Monitoring Well Design

Boring No. MW-04B
Client EPA-REGION 1
Project FLETCHER
Case No. 62360-03

Date Start 11/21/91	Date Complete 11/26/91	Hole Diameter 4"	Casing Size N.A.
Contractor Con-Tes		Geologist K. ELLINGWOOD	
Drill Method H.S.A.		Boring Depth 17'	
Type Of Rig DIEDRICH D-50		Grout method N.A.	
Datum DOUBLE NOTCH ON PVC RISER		Development Method N.A.	
Notes			

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram
0.0	NO SAMPLES TAKEN (REFER TO EB-04C)		
1.0			
2.0			
3.0			
4.0			
5.0			
6.0			
7.0			
8.0			
9.0			
10.0			

Construction Specifications

Elevation Top Of Casing _____

Elevation Top Of Riser Pipe 247.18'

Elevation Ground Surface 247.89'

(surveyed elevations)
(depth from ground surface)

Type of Surface Casing @ LOCKING STEEL STANDPIPE @ CAST MANHOLE COVER

I.D. Surface Casing @ 5" I.D., @ 12" I.D.

Type Of Riser Pipe PVC SCHEDULE 40

I.D. Riser Pipe 2.0"

Diameter Of Borehole 4"

Type Of Backfill N.A.

Type Of Seal BENTONITE + VOLCLAY BENT. MIX

Depth To Top Of Seal _____

Type Of Sand Pack OTTAWA SAND

Depth To Top Of Sand Pack 6'

Type Of Screen PVC SCHEDULE 40

Slot Size .010

I.D. Screen 2.0"

Screened Interval 7-17'

Depth To Bottom Of Well 17'

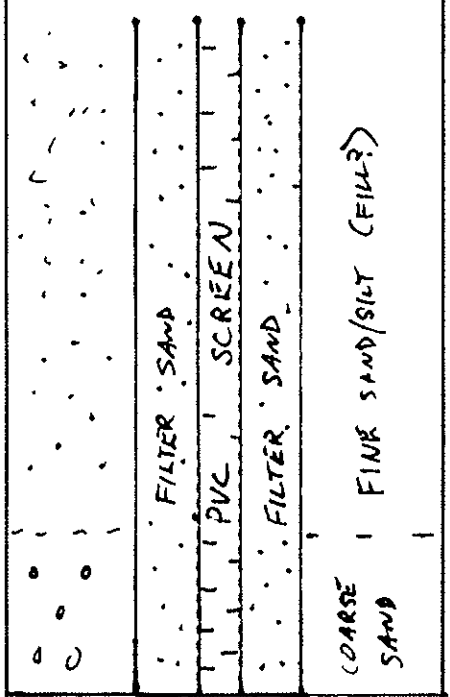
Depth To Bottom Of Borehole 17'

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-04B
Client EPA-REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				



Arthur D Little

Monitoring Well Design

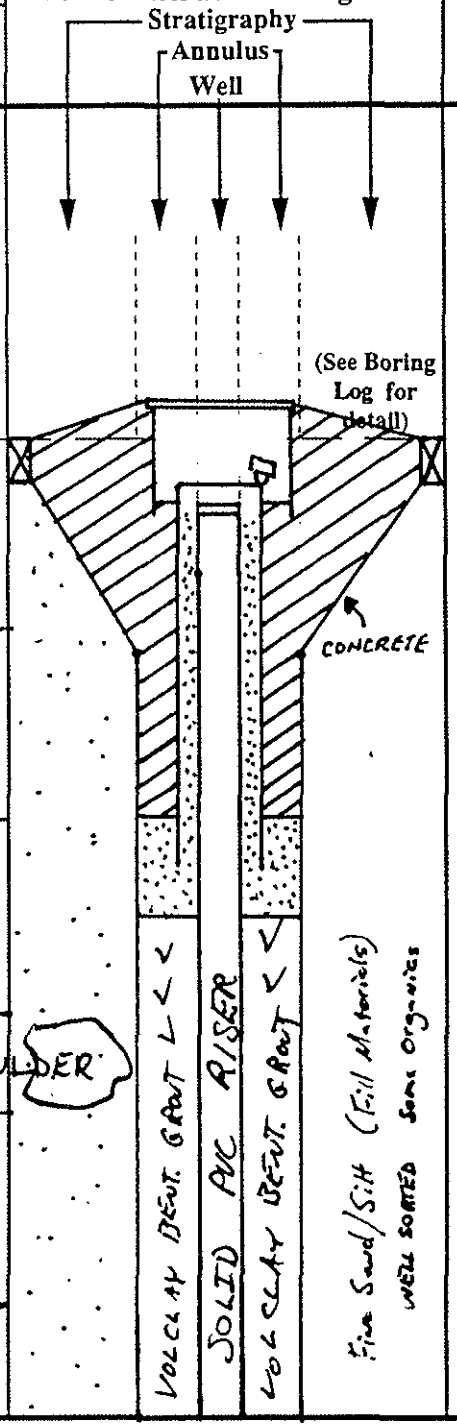
Boring No.	MW-04C
Client	EPA - REGION 1
Project	FLETCHER
Case No.	62360-03

Date Start 11-8-91	Date Complete 11-26-91	Hole Diameter 4" (see Notes)	Casing Size 4"
Contractor CON-TEC		Geologist K. ELLINGWOOD	
Drill Method HOLLOW STEM AUGER / DRIVE CASING		Boring Depth 60'	
Type Of Rig DIEDRICH D-50		Grout method VOLCLAY-BENT/GROUT PUMPED THROUGH CHEM MIXER	
Datum DOUBLE NOTCH ON PVC RISER		Development Method N.A.	

Notes Hole Diameter - 6" Augers to 9' / 6" CASING TO 21' / 4" CASING TO 49.4'

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)
0.0	GEO #1	IN SPOON (I.S.)
1.0		2.2 HEAD SPACE (H.S.)
2.0	076 - PCB	400
	GEO #2	I.S. .9
3.0		140 H.S.
4.0	077 PCB	
	GEO #3	2.3 I.S.
5.0		25.6 H.S.
6.0	079 PCB	
		BOULDER
7.0	GEO #4	
8.0		150 H.S.
9.0	082 PCB	
	GEO #5	93 H.S.
10.0		

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____

Elevation Top Of Riser Pipe 247.18'

Elevation Ground Surface 247.60'

(surveyed elevations)

(depth from ground surface)

Type of Surface Casing @ LOCKING STEEL STANDPIPE @ CAST MANHOLE COVER

I.D. Surface Casing @ 5" I.D. STEEL @ 12" I.D.

Type Of Riser Pipe Schedule 40 PVC

I.D. Riser Pipe 2"

Diameter Of Borehole 8"

Type Of Backfill 'VOLCLAY' BENT. GROUT SLURRY

Type Of Seal BENTONITE PELLETS

Depth To Top Of Seal 45'

Type Of Sand Pack OTTAWA SAND

Depth To Top Of Sand Pack 50.1

Type Of Screen PVC

Slot Size .010

I.D. Screen 2"

Screened Interval 50.5 - 55.5'

Depth To Bottom Of Well 55.5'

Depth To Bottom Of Borehole 60'

Note: THIS WELL (EB-04A) WAS RENAMED EB-04C ONCE THE DECISION WAS MADE TO INSTALL A BEDROCK WELL.

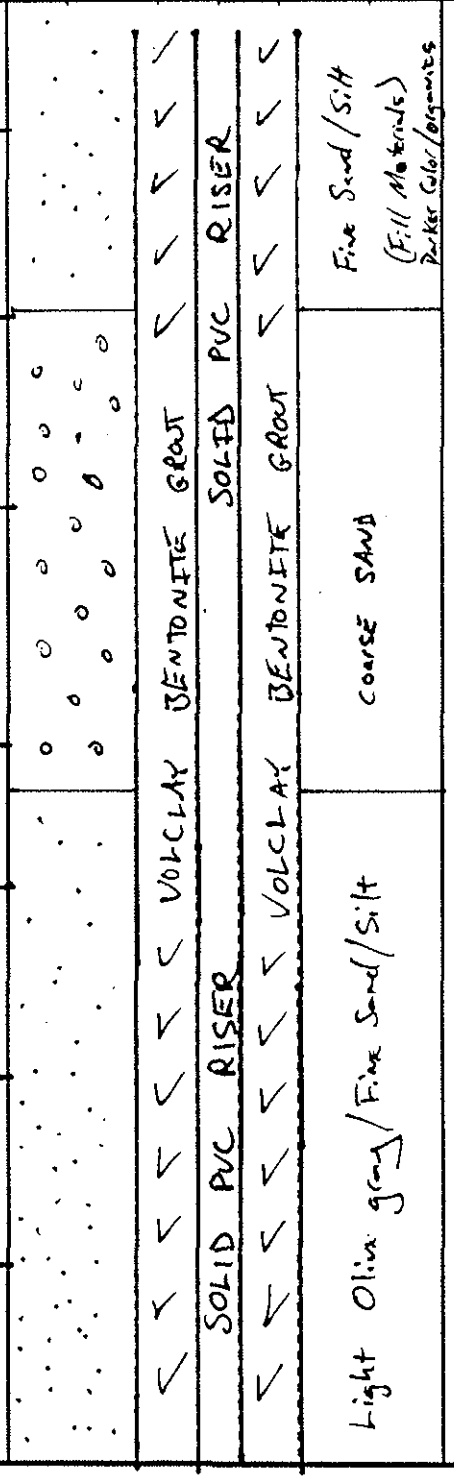
Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-04C
Client EPA-REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Notes and Comments
10.0			
11.0	083 PCB		
	GEO #6		
12.0		98 H.S.	
	084 PCB		
13.0	GEO #7		
14.0		164 H.S.	
15.0			
16.0			
17.0			
	GEO #8	12.4 I.S.	
18.0			WOOD
	097 PCB	18.8 H.S.	
19.0	GEO #9		
		3.5 I.S.	
20.0			
		78.8 H.S.	
	098 PCB		
21.0	GEO #10		
		2.4 I.S.	
22.0			
		8.8 H.S.	
	103 PCB		
23.0	GEO #11		
24.0		15.2 H.S.	
	104 PCB		
25.0			

Well Construction Diagram

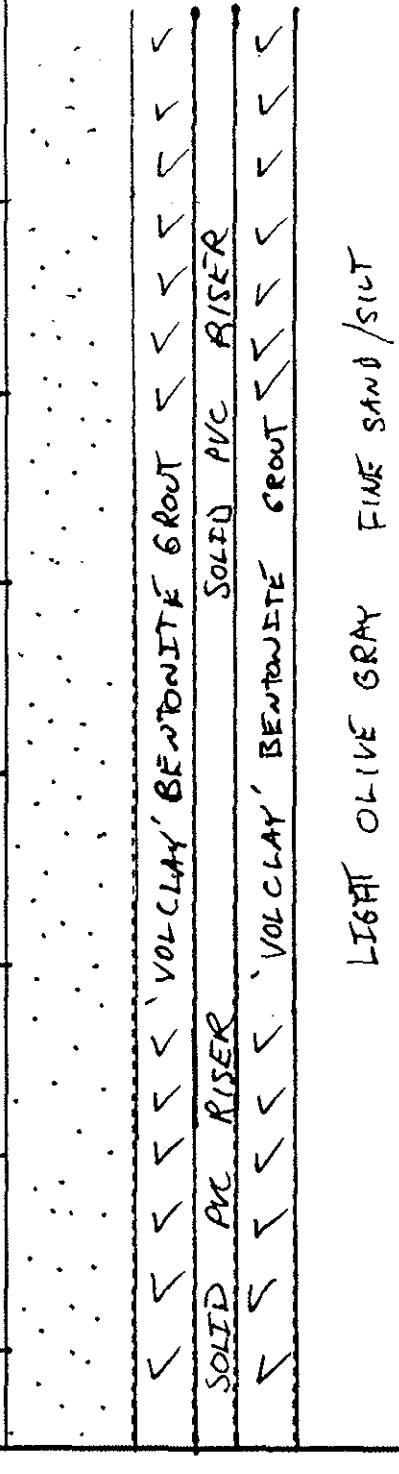


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-04C
Client EPA-REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
25.0	GEO #12	13.3 H.S.		
26.0				
27.0	107 PCB			
	GEO #13	14.2 H.S.		
28.0				
29.0	108 PCB			
	GEO #14	.6 T.S.		
30.0		6.4 H.S.		
31.0	111 PCB			
	GEO #15	7.7 H.S.		
32.0				
33.0	112 113 PCB-DUP			
	GEO #16	9.8 H.S.		
34.0				
35.0	GEO #17	6.9 H.S.		
36.0				
37.0	GEO #18	5.3 H.S.		
38.0				
39.0	117 PCB			
	GEO #19	NOT ENOUGH SAMPLE		



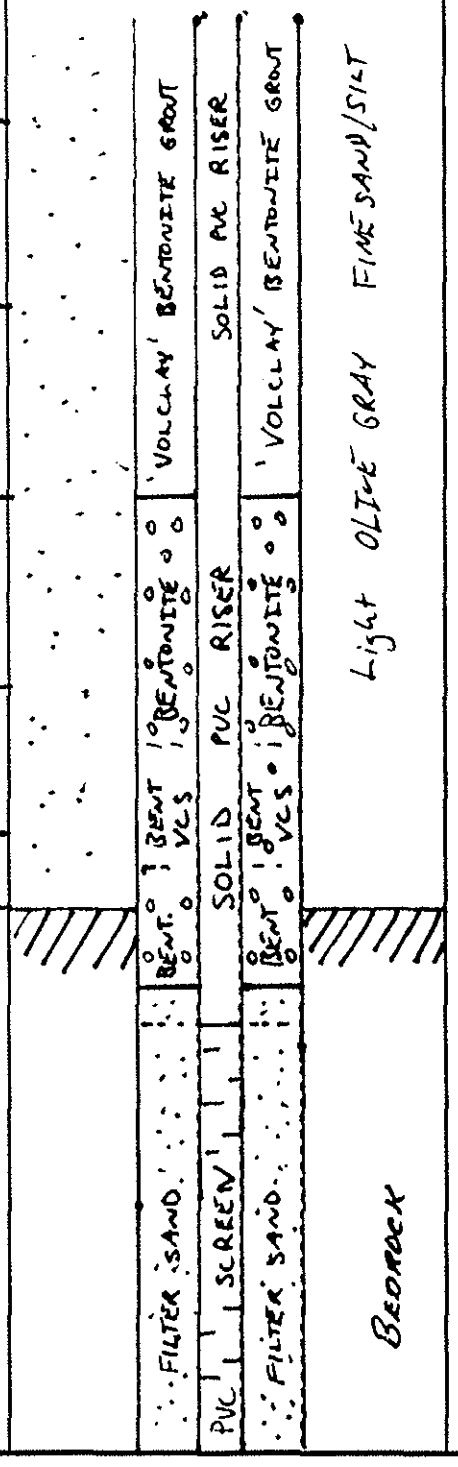
4a0

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-04C
Client EPA-REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
40.0				
41.0	GEO #20			
42.0		NOT ENOUGH SAMPLE		
43.0	GEO #21			
44.0	GRAIN SZ 118 ADL PCB 12B	NOT ENOUGH SAMPLE		
45.0				
46.0	GEO #22 118 CLP	NOT ENOUGH SAMPLE		
47.0				
48.0		5.3 H.S		POSSIBLE VOID/BACK FILL IN BENTONITE PLUG
49.0	GEO #23 129 PCB	4.5 H.S		
50.0				FINE SAND 50.1 - 50.5'
51.0				LARGE HIGH ANGLE FRACTURE 50.7 - 51.4'
52.0				
53.0				
54.0				
55.0				



Arthur D Little

Monitoring Well Design

(Continuation Page)

Boring No. MW-04C
Client EPA - REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
55.0			FINE SAND	
56.0				
57.0				
58.0			BENTONITE	
59.0				
60.0				END OF CORE

Arthur D Little

Monitoring Well Design

Boring No. MW-1BB
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

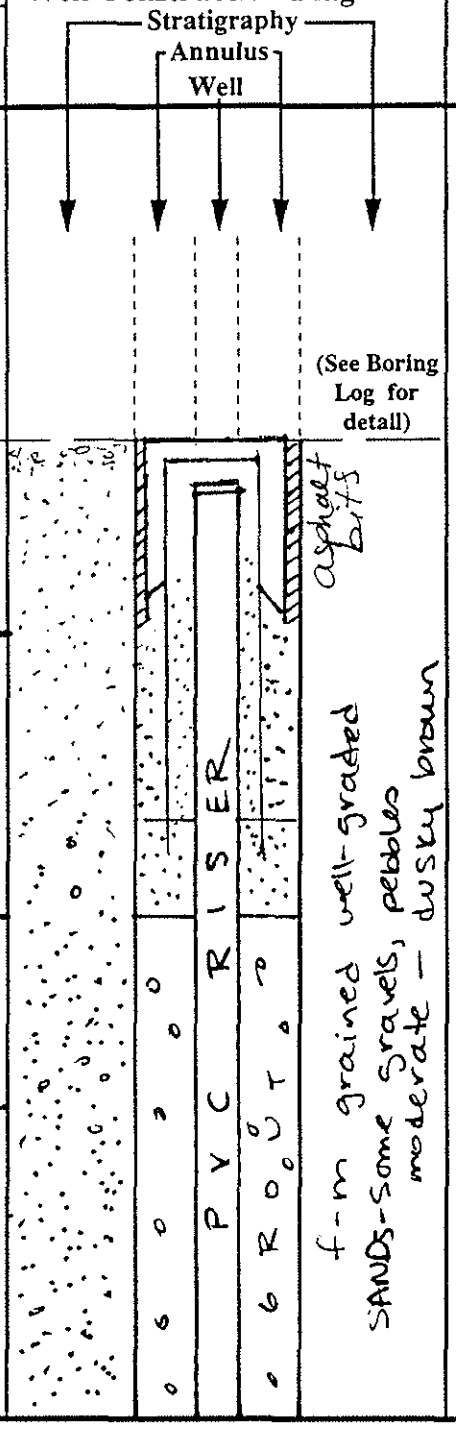
Date Start 12/12/91	Date Complete 12/13/91	Hole Diameter 8" ϕ	Casing Size 4¼ HSA

Contractor FLORES DRILLING	Geologist C. PIAGGIO
Drill Method HSA	Boring Depth 55.8'
Type Of Rig ACKER AD-2	Grout method BENT. POWDER + CHIPS
Datum DOUBLE NOTCH ON PVC RISER	Development Method —

Notes LOCATED ON KEYES DRIVE

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)
0.0		
1.0	GEO S-1 FPW 292	0.0 ppm
2.0		H.S. = 0.5
3.0		
4.0		
5.0	GEO S-2 FPW 294	2.0 ppm
6.0		
7.0		H.S. = 1.0
8.0		
9.0		
10.0		

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____
Elevation Top Of Riser Pipe 258.00'
Elevation Ground Surface 258.74'
(surveyed elevations)
(depth from ground surface)

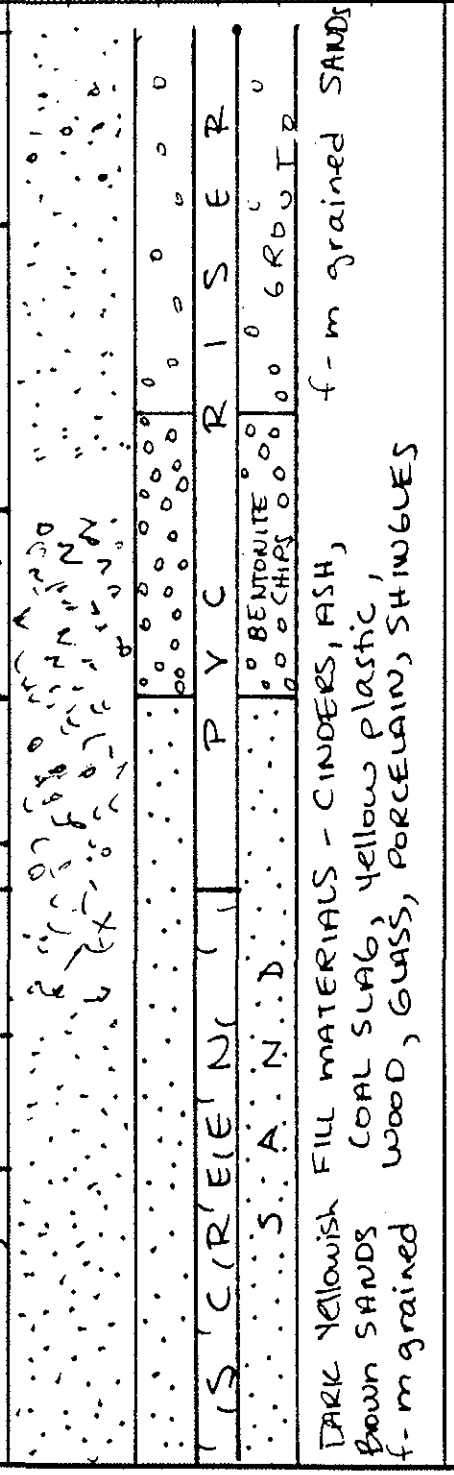
Type of Surface Casing cast manhole / Steel Standpipe
I.D. Surface Casing 5" ϕ locking steel / 12" manhole
Type Of Riser Pipe Schedule PVC
I.D. Riser Pipe 2" ϕ
Diameter Of Borehole 8" ϕ
Type Of Backfill GROUT - Bent Chip
Type Of Seal BENT. CHIPS
Depth To Top Of Seal 14'
Type Of Sand Pack OTTAWA SAND
Depth To Top Of Sand Pack 17'
Type Of Screen PVC SLOTTED
Slot Size .010'
I.D. Screen 2" ϕ
Screened Interval 19'-29'
Depth To Bottom Of Well 29'
Depth To Bottom Of Borehole 55.8'

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-18B
Client EPA Region I
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0				
11.0	GEO S-3 FPW 295	4.0 ppm H.S. = 1.0		
12.0				
13.0				
14.0				
15.0	GEO S-4A S-4B FPW 296	2.0 ppm A: 0.0 H.S. = B: 0.0		
16.0				
17.0	GEO S-5A GEO S-5B FPW? CLP } 297 FPW DUP 298	4.0 ppm A: 0.0 H.S. = B: 0.5		
18.0				
19.0	GEO S-6A S-6B FPW 299	0.0 ppm A: 0.5 H.S. = B: 0.5		
20.0				
21.0	GEO 7 FPW 300	1.0 ppm H.S. = 0.0		
22.0	NO GEO FPW? CLP } 302	0.0 ppm		
23.0				
24.0				

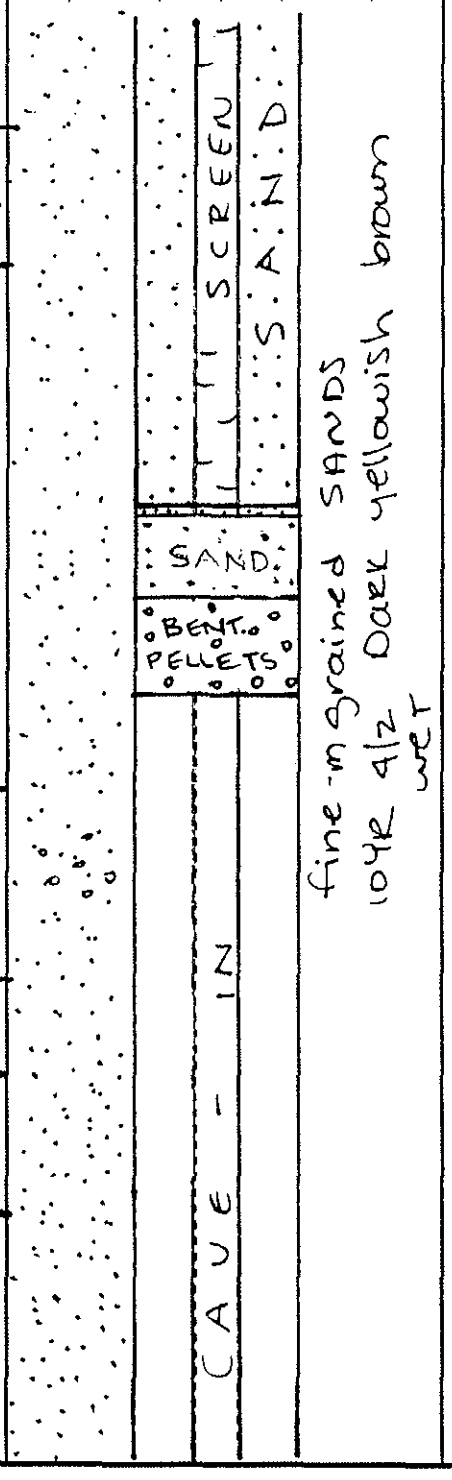


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-18B
Client EPA Region I
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
24.0				
25.0		H.S. = 0.0		
	GEO S-8 FPW 303	0.0 ppm		
26.0		H.S. = 0.0		
27.0				
28.0				
29.0				
30.0				
31.0				
32.0	GEO S-9	0.0 ppm		
33.0				
34.0		H.S. = 0.5		
35.0	GEO S-10 FPW 304	0.0 ppm		
36.0		H.S. = 0.5		
37.0				
38.0				



Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-18B
Client 62360-03
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
39.0				
40.0	660 S-11	0.0 ppm		
41.0		H.S.: 0.0		
42.0				
43.0				
44.0				
45.0	660 S-12	0.0 ppm		
46.0		H.S.: 0.0		
47.0				
48.0				
49.0				
50.0	660 S-13 FPW 305	0.0 ppm		
51.0		H.S.: 0.2		
52.0				
53.0				

CAVE-IN

fine grained SANDS light olive gray - mod. yellowish brown

SILTY SANDS

Arthur D Little

Monitoring Well Design
(Continuation Page)

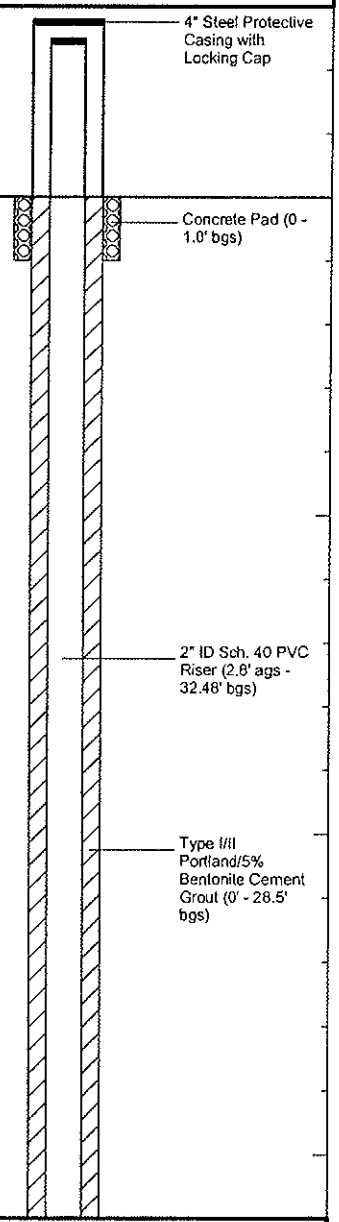
Boring No. MW-18B
Client EPA REGION I
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
53.0				
54.0				
55.0	GEO S-14 FPW 3 CLP 3 306	0.0 ppm Hg. = 0.6	CAVE - IN; weathered rock gravels pebbles	
56.0				Bottom of Borehole @ 55.8'
57.0				
58.0				
59.0				
60.0				
61.0				
62.0				
63.0				
64.0				
65.0				
66.0				
67.0				

Date Start/Finish: 12/22/03 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** Mobil B-59 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** **Casing Size:**	**Northing:** 122390.2 **Easting:** 987467.0 **Casing Elevation:** 259.35' **Borehole Depth:** 42.5' below grade **Surface Elevation:** 256.2' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-26A/ESSB-M14 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
0		NA	CAP	NA	NA	NA	NA		Cap approximately 1' thick.
	255	1	0-1	0.5	7 12	12	NA		Orange-brown fine to coarse SAND, trace fine to medium Gravel, trace Concrete, trace Silt, damp. [FILL]
		2	1-3	1.2	9 12 10 11	22	29.1		Orange-brown to gray-brown fine SAND and SILT, damp. [FILL]
5		3	3-5	0.6	7 4 5 7	9	7.45		Dark brown fine SAND and SILT, little medium to coarse Sand, trace fine Gravel, trace black Slag, damp. [FILL]
	250	4	5-7	0.2	5 2 2 2	4	NA		Orange-brown fine to medium SAND, trace coarse Sand, coarse Gravel in tip of shoe limited recovery. [FILL]
		5	7-9	1.2	3 2 2 3	4	4.86		Orange-brown fine to medium SAND, little coarse Sand, trace fine to medium Gravel, trace black Slag/Glass, damp. [FILL]
10	245	6	9-11	0.7	2 2 2 1	4	2.85		
		7	11-13	1.2	2 1 2 5	3	8.32		Orange-brown fine to medium SAND, little coarse Sand, trace fine to medium Gravel, trace Silt, trace to little Slag, Coal, Brick, and Glass, damp. [FILL]
15		8	13-15	0.7	4 4 2 7	6	7.45		

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; WOR = Weight of Rod; Ref = Refusal; (--) = Negative shake test.

Client:
General Electric Company

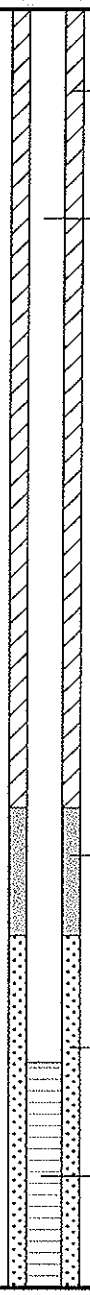
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-26A/ESSB-M14

Borehole Depth: 42.5' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	240	NA	NA	NA	NA	NA	NA		No Recovery. Drill through Cobble.
		9	16-18	1.4	1 1 1 2	2	2.18		Dark gray-brown fine SAND and SILT, trace highly degraded Natural Organics, moist. (Native)
20		10	18-20	2.0	2 2 5 13	7	61.4 (--)		Light gray fine to medium SAND, saturated, odor.
	235	11	20-22	1.4	WOR 3 5 4	8	310 (--)		Light gray-brown fine to medium SAND, little coarse Sand, trace fine Gravel, odor, saturated.
		12	22-24	1.7	5 5 4 5	9	144 (--)		Fine Sand and Silt, odor, saturated from 22.8' - 23.1' bgs.
25									
	230	13	24-26	2.0	4 5 7 9	11	109 (--)		Gray-brown fine to medium SAND, little coarse Sand, trace Gravel, saturated.
		14	26-28	1.2	2 3 4 9	7	94.6 (--)		Gray-brown fine to medium SAND with natural Organic interbedding (Organics consist of Roots/Vegetation), saturated.
30		15	28-30	0.8	2 1 4 4	5	61.5 (--)		Light gray-brown fine to medium SAND, trace to little coarse Sand, saturated.
	225	16	30-32	1.0	3 3 4 7	7	6.19		Olive-brown fine SAND, trace Silt laminations, saturated.
		17	32-34	1.2	3 4 6 10	10	22.8		Orange-brown fine to medium SAND, trace coarse Sand, trace Silt, grading to Orange-brown fine to coarse SAND, trace fine Gravel, trace Silt, saturated.
35		18	34-36	1.6	3 4	11	2.11		Light gray-brown fine SAND, trace Silt, saturated.

Well/Boring Construction



- Type I/II Portland/5% Bentonite Cement Grout (0' - 28.5' bgs)
- 2" ID Sch. 40 PVC Riser (2.8' ags - 32.48' bgs)
- 3/8" Hydrated Bentonite Chip Seal (28.5' - 32.5' bgs)
- Grade #0 Morie Sand Pack (30.5' - 42.5' bgs)
- 2" ID Sch. 40 PVC 0.010" Slot Screen (32.48' - 42.28' bgs)

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; WOR = Weight of Rod; Ref = Refusal; (--) = Negative shake test.

Client:
General Electric Company

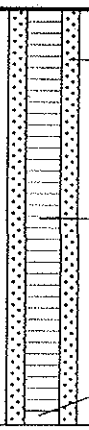
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-26A/ESSB-M14

Borehole Depth: 42.5' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	220	18	34-36	1.6	7 10	11	2.11		Light gray-brown fine SAND, trace Silt, saturated.
		19	36-38	1.4	2 4 7 12	11	2.18		Light gray-brown fine to coarse SAND, trace fine to medium Gravel, trace Silt, saturated.
40		20	38-40	0.8	6 36 40 37	76	1.75		Medium to coarse Sand-sized weathered GRANITE, little fine to medium Gravel-sized weathered Granite, saturated.
	215	21	40-41.5	0.4	6 10 120/4"	Ref	NA		
									Auger refusal at 42.5' bgs.
45									
	210								
50									
	205								
55									

Well/Boring Construction



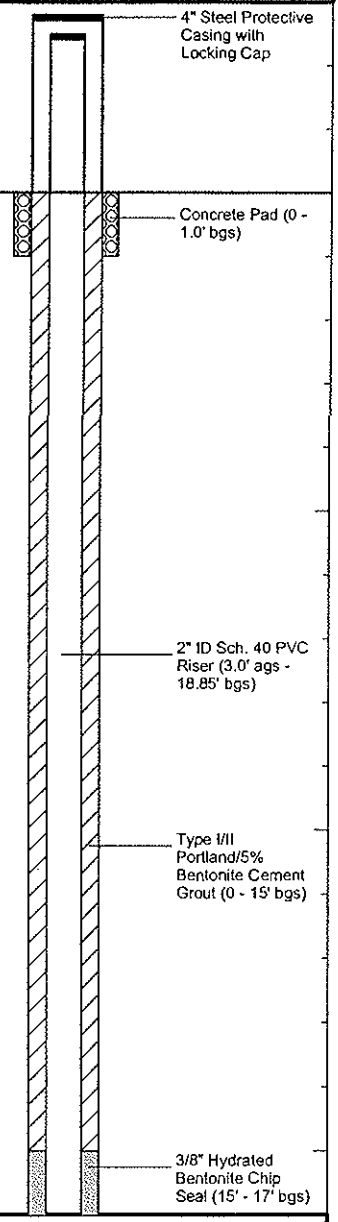
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; WOR = Weight of Rod; Ref = Refusal; (--) = Negative shake test.

Date Start/Finish: 12/23/03 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** CME-75 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** NA **Casing Size:** NA	**Northing:** 122386.8 **Easting:** 987464.4 **Casing Elevation:** 259.5' **Borehole Depth:** 29' below grade **Surface Elevation:** 256.5' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-26B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
0									Cap approximately 1' thick.
	255								Orange-brown fine to coarse SAND, trace fine to medium Gravel, trace Concrete, trace Silt, damp. [FILL]
									Orange-brown to gray-brown fine SAND and SILT, damp. [FILL]
5									Dark brown fine SAND and SILT, little medium to coarse Sand, trace fine Gravel, trace black Slag, damp. [FILL]
	250								Orange-brown fine to medium SAND, trace coarse Sand, coarse Gravel in tip of shoe limited recovery. [FILL]
10									Orange-brown fine to medium SAND, little coarse Sand, trace fine to medium Gravel, trace black Slag/Glass, damp. [FILL]
	245								
15									Orange-brown fine to medium SAND, little coarse Sand, trace fine to medium Gravel, trace Silt, trace to little Slag, Coal, Brick, and Glass, damp. [FILL]

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Geologic information from MW-26A sampling. See boring log MW-26A for additional information.

Client:
General Electric Company

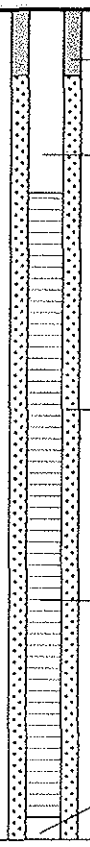
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-26B

Borehole Depth: 29' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	240								No Recovery. Drill through Cobble.
									Dark gray-brown fine SAND and SILT, trace highly degraded Natural Organics, moist. (Native)
20									
									Light gray fine to medium SAND, saturated, odor.
	235								Light gray-brown fine to medium SAND, little coarse Sand, trace fine Gravel, odor, saturated.
									Fine Sand and Silt, odor, saturated from 22.8' - 23.1' bgs.
25									
									Gray-brown fine to medium SAND, little coarse Sand, trace Gravel, saturated.
	230								Gray-brown fine to medium SAND with natural Organic interbedding (Organics consist of Roots/Vegetation), saturated.
30									
	225								
35									

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

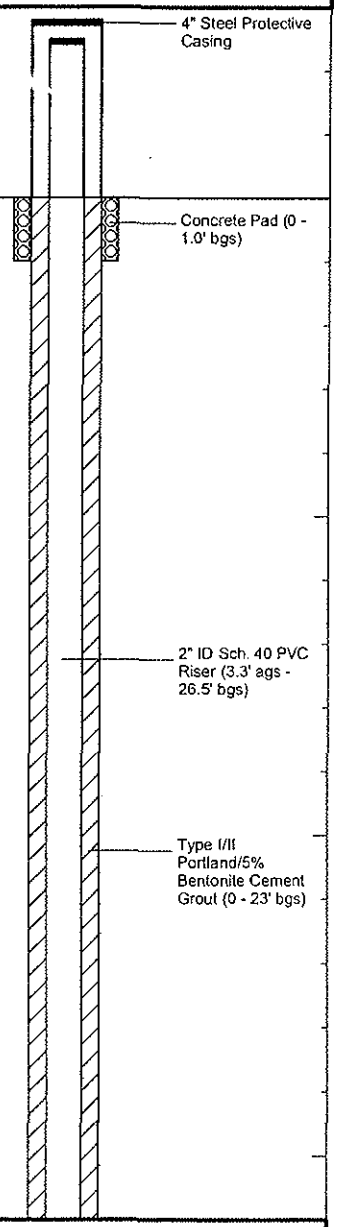
Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Geologic information from MW-26A sampling. See boring log MW-26A for additional information.

Date Start/Finish: 12/23/03 - 12/29/03 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** Mobile B-59 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** NA **Casing Size:** NA	**Northing:** 122225.5 **Easting:** 987532.6 **Casing Elevation:** 264.46' **Borehole Depth:** 37' below grade **Surface Elevation:** 261.4' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-27A/ESSB-T16 **Client:** General Electric Company **Location:** Fletcher's Paint Works and *Storage Facility Superfund Site* Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
0		NA	CAP	NA	NA	NA	NA		Cap approximately 1' thick.
	260	1	0-1	0.5	4 120/5"	NA	NA		Gray-brown fine to medium SAND, little coarse Sand, little Silt, trace fine to medium Gravel, damp. [FILL]
		2	1-3	0.0	NA	NA	NA		No Recovery. Continuous auger through Fill to 4.0' bgs.
5		3	3-5	0.2	4 5 5 4	10	0.75		Gray-brown fine to medium SAND, little coarse Sand, trace fine to medium Gravel, little Silt, damp. [FILL]
	255	4	5-7	0.6	4 4 2 33	6	NA		
		5	7-9	0.2	68 41 100/0.2 -	Ref	5.65		Gray-brown fine to medium SAND, little Silt, little fine to medium Gravel and pulverized Granite, damp. [FILL]
10	250	6	9-11	0.6	10 4 3 1	7	1.38		Dark brown fine to medium SAND, little to some Silt, trace coarse Sand, trace fine Gravel, damp to moist. [FILL]
		7	11-13	0.8	5 4 3 3	7	NA		Orange-brown fine to medium SAND, little coarse Sand, trace Silt, trace fine Gravel, moist. [FILL]
15		8	13-15	0.0	100/0 Ref	Ref	12.78		No Recovery. Continuous auger through Cobble/Boulder.

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal; (+) = Positive shake test; (--) = Negative shake test.

Client:
General Electric Company

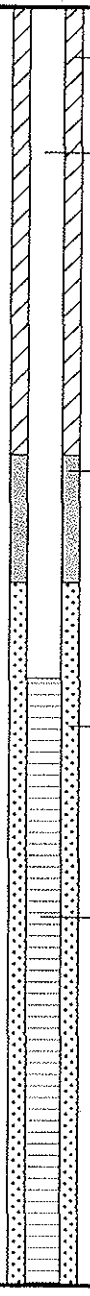
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-27A/ESSB-T16

Borehole Depth: 37' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	245	9	15-17	0.7	3 3 3 4	6	8156 (+)		Gray-brown fine to medium SAND, little coarse Sand, little Silt, moist to wet. [FILL]
		10	17-19	1.4	3 5 8 4	13	7864 (--)		Olive-brown fine SAND and SILT, sli[illegible] odor, saturated. (Native)
20		11	19-21	1.6	9 10 13 13	23	23.55		Olive-brown fine SAND, minor Silt interbedding, saturated.
	240	12	21-23	1.8	11 12 14 14	27	9.90		Olive-brown very fine SAND, trace to little Silt, saturated.
25		13	23-25	1.2	6 6 7 5	13	18.65		
	235	14	23-27	1.7	13 11 11 9	22	6.02		Olive-brown very fine SAND, minor Silt interbedding, saturated.
		15	27-29	1.5	4 4 5 4	9	5.74		
30		16	29-31	1.8	4 9 7 9	11	62.24 (--)		Olive-brown fine SAND and SILT, saturated.
	230	17	31-33	2.0	6 11 14 17	25	2.62		
35		18	33-35	1.8	6 30 16 18	46	0.15		Olive-brown fine SAND, little medium to coarse Sand, little Silt, trace fine to medium subangular Gravel (Granite and pink/white Feldspar), poorly sorted, saturated.

Well/Boring Construction



- Type I/II Portland/5% Bentonite Cement Grout (0 - 23' bgs)
- 2" ID Sch. 40 PVC Riser (3.3' ags - 26.5' bgs)
- 3/8" Hydrated Bentonite Chip Seal (23' - 25' bgs)
- Grade #0 Morie Sand Pack (25' - 36.65' bgs)
- 2" ID Sch. 40 PVC 0.010" Slot Screen (26.5' - 36.3' bgs)

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal; (+) = Positive shake test; (--) = Negative shake test.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-27A/ESSB-T16

Borehole Depth: 37' below grade

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
225	19	35-36	0.5	27 120/5"	Ref	0.15		Olive-brown fine SAND, little medium to coarse Sand, little Silt, trace fine to medium subangular Gravel (Granite and pink/white Feldspar), poorly sorted, saturated.	Grade #0 Morie Sand Pack (25' - 36.65' bgs)
								Auger refusal at 37' bgs.	2" ID Sch. PVC Unslotted portion of Screen and Sump (36.3' - 36.65' bgs)
40									
220									
45									
215									
50									
210									
55									

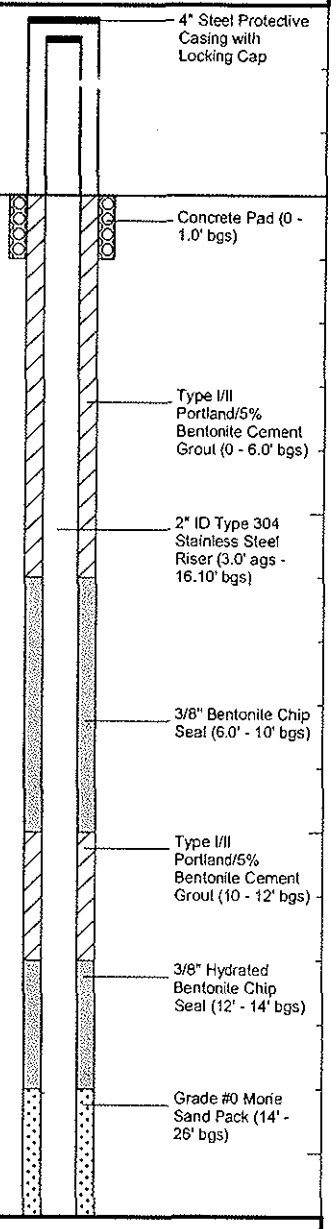
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal; (+) = Positive shake test; (--) = Negative shake test.

Date Start/Finish: 12/29 - 30/03 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** CME-75 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** NA **Casing Size:** NA	**Northing:** 122227.8 **Easting:** 987537.9 **Casing Elevation:** 264.6' **Borehole Depth:** 26' below grade **Surface Elevation:** 261.4' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-27B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
0									Cap approximately 1' thick.
	260								Gray-brown fine to medium SAND, little coarse Sand, little Silt, trace fine to medium Gravel, damp. [FILL]
									No Recovery. Continuous auger through Fill to 4.0' bgs.
5	255								Gray-brown fine to medium SAND, little coarse Sand, trace fine to medium Gravel, little Silt, damp. [FILL]
									Gray-brown fine to medium SAND, little Silt, little fine to medium Gravel and pulverized Granite, damp. [FILL]
10	250								Dark brown fine to medium SAND, little to some Silt, trace coarse Sand, trace fine Gravel, damp to moist. [FILL]
									Orange-brown fine to medium SAND, little coarse Sand, trace Silt, trace fine Gravel, moist. [FILL]
15									No Recovery. Continuous auger through Cobble/Boulder.

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available;
Lost ~250 gallons of Grout from 10' - 12' bgs. Used Chip Seal instead.
4 attempts to set well. Auger refusal in boulders at 18.6', 6.5', and 12' bgs (1st - 3rd attempts).
Geologic information from MW-27A sampling. See boring log MW-27A for additional information.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-27B

Borehole Depth: 26' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	245								Gray-brown fine to medium SAND, little coarse Sand, little Silt, moist to wet. [FILL]	Grade #0 Morie Sand Pack (14' - 26' bgs)
									Olive-brown fine SAND and SILT, slight odor, saturated. (Native)	
20									Olive-brown fine SAND, minor Silt interbedding, saturated.	2" ID Type 304 Stainless Steel Continuous Wrap Screen (16.10' - 25.96' bgs)
	240								Olive-brown very fine SAND, trace to little Silt, saturated.	
25										2" ID Type 304 Stainless Steel Welded Sump (25.96' - 26.0' bgs)
	235									
30										
	230									
35										

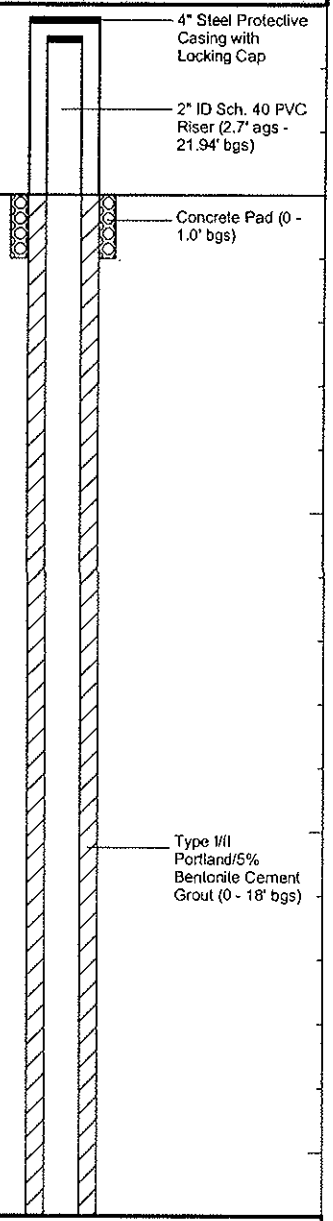
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available;
Lost ~250 gallons of Grout from 10' - 12' bgs. Used Chip Seal instead.
4 attempts to set well. Auger refusal in boulders at 18.6', 6.5', and 12' bgs (1st - 3rd attempts).
Geologic information from MW-27A sampling. See boring log MW-27A for additional information.

Date Start/Finish: 12/30/03 - 12/31/03 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** Diedrich D-120 Truck-mounted Rig **Sampling Method:** 2" OD x 2' **Core Size:** NA **Casing Size:** NA	**Northing:** 122239.7 **Easting:** 987630.9 **Casing Elevation:** 263.98' **Borehole Depth:** 32' below grade **Surface Elevation:** 260.9 **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-28A/ESSB-S20 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
0	260	NA	CAP	NA	NA	NA	NA		Cap approximately 1' thick.
		1	0-1	0.4	8 10	10	NA		Dark brown fine to medium SAND, little coarse Sand, little Silt, trace fine to medium Gravel, trace Coal/Brick, damp. [FILL]
		2	1-3	0.8	8 8 9 11	17	1.09		Dark brown-black stained fine SAND and SILT, trace medium to coarse Sand and Coal, damp. [FILL]
5	255	3	3-5	1.0	12 50 120 -	Ref	7.82		Orange-brown black stained fine SAND and SILT, little to some pulverized coarse Gravel-sized Granite, trace medium to coarse Sand, damp. [FILL]
		4	5-7	0.0	NA	NA	NA		No Recovery. Auger through Rock/Cobble.
10	250	5	7-9	1.0	29 27 42 44	69	2.01		Orange-brown fine to medium SAND, little coarse Sand, trace fine Gravel and Silt, very dense, damp. [FILL] Trace medium Gravel below 9.0' bgs.
		6	9-11	1.3	23 27 21 13	48	2.12		Odor, wet below 11' bgs.
		7	11-13	1.2	28 9 13 13	32	>8000 (+)		
15	245	8	13-15	1.4	4 5 8 9	13	271 (+)		Orange-brown fine to coarse SAND, trace fine to medium Gravel, odor, loose, saturated.

Well/Boring Construction



Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal; (+) = Positive shake test; (--) = Negative shake test.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Client:
General Electric Company

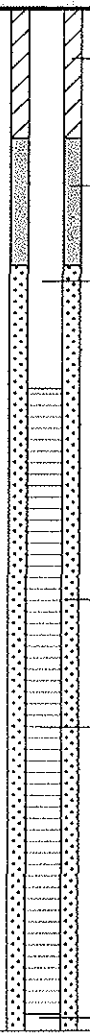
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-28A/ESSB-S20

Borehole Depth: 32' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
		9	15-17	1.5	10 11 20 20	39	336 (--)		Orange-brown fine to coarse SAND, trace fine to medium Gravel, odor, loose, saturated.
									Olive-brown SILT, wet.
		10	17-19	0.8	19 23 28 50	51	51.9 (--)		Olive-brown fine SAND, minor Silt laminations, Iron staining, wet to saturated.
20		11	19-21	1.1	7 9 7 11	16	43.8		Olive-brown interbedded very fine SAND and SILT, saturated.
	240								Light gray-brown fine to medium SAND, trace coarse Sand and fine to medium Gravel, saturated.
		12	21-23	2.0	7 9 13 18	22	55.9 (--)		Gray-brown fine to coarse SAND, little fine Gravel, trace medium Gravel and Silt, saturated.
									Light gray-brown fine to medium SAND, trace coarse Sand, fine Gravel, and Silt, saturated.
25		13	23-25	1.2	14 28 31 34	59	6.59		Light gray-brown fine SAND, trace medium to coarse Sand and Silt, Iron oxidation throughout, saturated.
	235	14	25-27	0.8	39 120/4" - -	Ref	NA		Coarse GRAVEL (pulverized Granite), trace fine to coarse Sand and Silt, saturated.
									Weathered GRANITE (pulverized).
		15	27-29	0.3	41 120/5" - -	Ref	NA		Auger to 32' bgs.
30									
	230	16	29-31	NA	NA	NA	NA		
									Auger refusal at 32' bgs.
35									
	225								

Well/Boring Construction



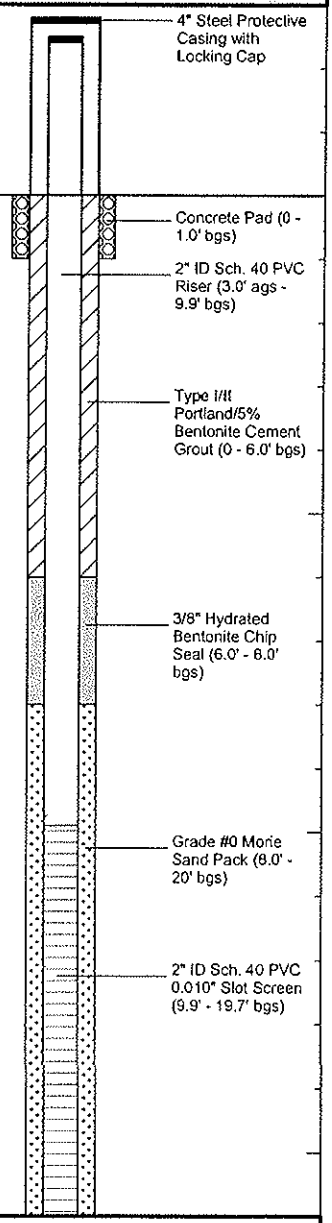
- Type I/II Portland/5% Bentonite Cement Grout (0 - 18' bgs)
- 3/8" Hydrated Bentonite Chip Seal (18' - 20' bgs)
- 2" ID Sch. 40 PVC Riser (2.7' ags - 21.94' bgs)
- Grade #0 Morrie Sand Pack (20' - 32' bgs)
- 2" ID Sch. 40 PVC 0.010" Slot Screen (21.94' - 31.74' bgs)
- 2" ID Sch. PVC Unslotted portion of Screen and Sump (31.74' - 32' bgs)

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal; (+) = Positive shake test; (--) = Negative shake test.

Date Start/Finish: 12/31/03 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** Diedrich D-120 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** NA **Casing Size:** NA	**Northing:** 122239 **Easting:** 987624.1 **Casing Elevation:** 264.07' **Borehole Depth:** 20' below grade **Surface Elevation:** 260.6' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-28B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
0	260								Cap approximately 1' thick.
									Dark brown fine to medium SAND, little coarse Sand, little Silt, trace fine to medium Gravel, trace Coal/Brick, damp. [FILL]
									Dark brown-black stained fine SAND and SILT, trace medium to coarse Sand and Coal, damp. [FILL]
5	255								Orange-brown black stained fine SAND and SILT, little to some pulverized coarse Gravel-sized Granite, trace medium to coarse Sand, damp. [FILL]
									No Recovery. Auger through Rock/Cobble.
10	250								Orange-brown fine to medium SAND, little coarse Sand, trace fine Gravel and Silt, very dense, damp. [FILL] Trace medium Gravel below 9.0' bgs. Odor, wet below 11' bgs.
15	245								Orange-brown fine to coarse SAND, trace fine to medium Gravel, odor, loose, saturated.



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Geologic information from MW-28A sampling. See boring log MW-28A for additional information.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-28B

Borehole Depth: 20' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
									Orange-brown fine to coarse SAND, trace fine to medium Gravel, odor, loose, saturated.	Grade #0 Morie Sand Pack (8.0' - 20' bgs)
									Olive-brown SILT, wet.	2" ID Sch. 40 PVC 0.010" Slot Screen (9.9' - 19.7' bgs)
									Olive-brown fine SAND, minor Silt laminations, Iron staining, wet to saturated.	
20	240									2" ID Sch. PVC Unslotted portion of Screen and Sump (19.7' - 20' bgs)
25	235									
30	230									
35	225									

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

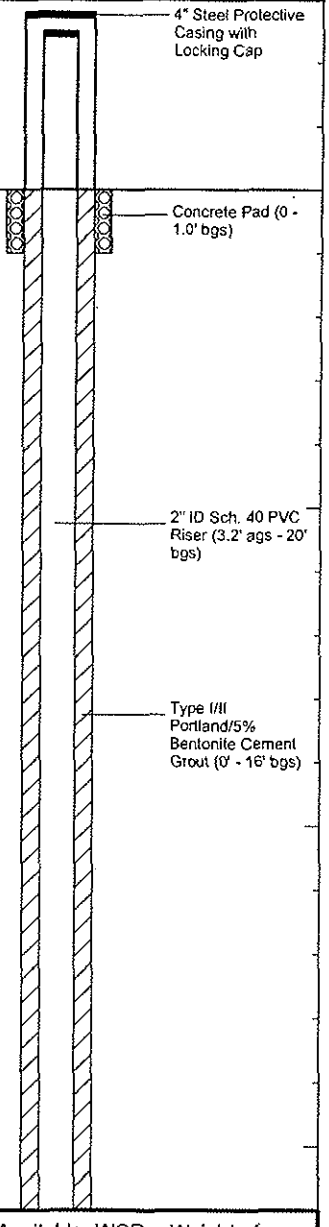
Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Geologic information from MW-28A sampling. See boring log MW-28A for additional information.

Date Start/Finish: 2/2/04 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** Diedrich D-120 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' **Core Size:** NA **Casing Size:** NA	**Northing:** 122338.4 **Easting:** 987449.1 **Casing Elevation:** 261.49' **Borehole Depth:** 31' below grade **Surface Elevation:** 258.5' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-29B/ESSB-014 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	260								
0		0	CAP	NA	NA	NA	NA		Cap approximately 2' thick.
		1	0-1	0.4	56 63	63	1.54		Gray-brown fine SAND and SILT, trace medium to coarse Sand, trace Brick and Wood, trace fine to medium Gravel, damp. [FILL]
	255	2	1-3	0.6	10 14 5 3	19	1.58		Gray-brown fine SAND, little Silt, trace medium to coarse Sand, trace fine to medium Gravel, damp. [FILL]
5		3	3-5	0.9	2 3 4 2	7	1.99		
	250	4	5-7	0.4	4 4 2 2	6	NA		Gray-brown fine SAND and black SLAG, Coal, light gray Cinders, trace medium to coarse Sand, loose, damp. [FILL]
10		5	7-9	0.5	2 3 3 2	6	2.48		Trace Glass below 9.0' below cap.
		6	9-11	0.2	2 2 2 5	4	NA		Trace Brick below 11.0' below cap.
	245	7	11-13	0.6	4 5 8 14	13	1.38		Gray-brown fine SAND, little Silt, trace Granite fragments, damp.
15		8	13-15	0.0	6 10	33	NA		No Recovery.

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; WOR = Weight of Rod.
2'-thick Cap present at this location. All sample intervals are below cap.

Client:
General Electric Company

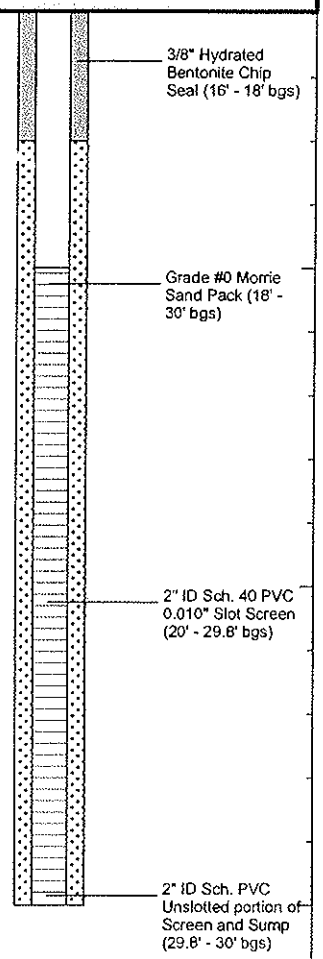
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-29B/ESSB-014

Borehole Depth: 31' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
		8	13-15	0.0	23 4	33	NA		No Recovery.
		9	15-17	0.3	5 120/5" - -	Ref	NA		Gray-brown fine SAND, trace medium to coarse Sand, trace Silt, wet.
	240								Gray-brown fine SAND, trace medium to coarse Sand, trace Silt, wet.
20		10	17-19	1.0	5 7 7 9	14	4.91		Dark brown moderately to highly degraded WOOD, moist.
		11	19-21	0.6	7 7 5 4	12	7.00		Light gray-brown fine to medium SAND, trace Silt, saturated.
	235	12	21-23	1.3	6 6 7 7	13	5.32		Light brown fine to medium SAND, trace to little coarse Sand, saturated.
25		13	23-25	1.5	8 7 5 10	12	0.74		Trace Silt, minor Natural Organic bedding below 25' below cap.
	230	14	25-27	1.2	7 8 11 10	19	4.25		Gray-brown fine SAND, trace medium to coarse Sand, trace Silt, minor Natural Organic laminations/Bedding, saturated.
30		15	27-29	1.3	2 3 3 5	6	2.38		
	225								
35									

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; WOR = Weight of Rod.
2'-thick Cap present at this location. All sample intervals are below cap.

Draft for EPA Review

Mill Street Area Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Arthur D Little

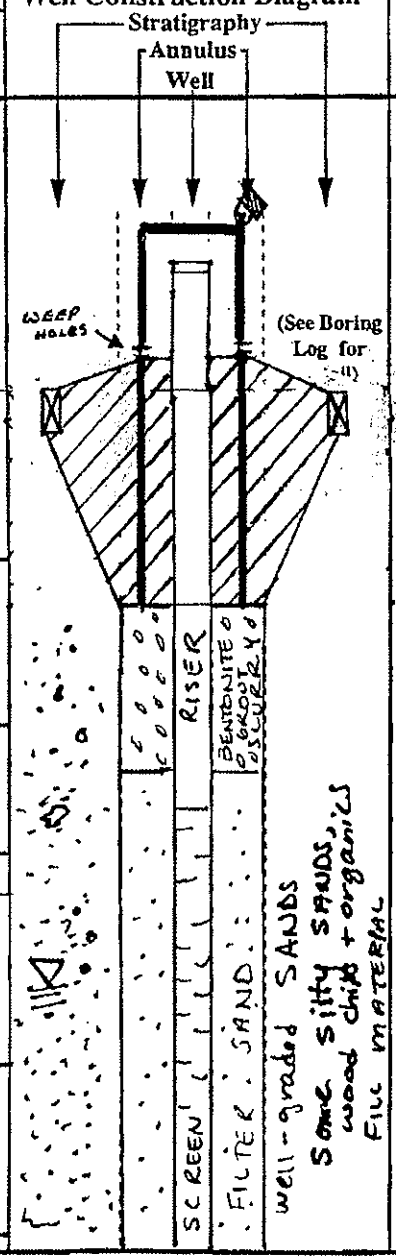
Monitoring Well Design

Boring No. MW-07A
Client EPA-Region 1
Project Fletcher Paint
Case No. 67360-03

Date Start 11/15/91	Date Complete 11/19/91	Hole Diameter 8"	Casing Size 3"ϕ, 4"ϕ
Contractor FORES DRILLING		Geologist C.P. MAGALD	
Drill Method HSA / SPIN CASING		Boring Depth 28.0'	
Type Of Rig ACKER AD-2		Grout method VOLCLAY + BENT. CHIPS	
Datum DOUBLE NOTCH PVC RISER		Development Method —	
Notes			

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)
0.0	GEO S-1 PCB 130	13" 0.0 ppm H.S. = 5.6
1.0		
2.0	GEO S-2 PCB 131	0.0 ppm H.S. = 14.8
3.0		
4.0	GEO S-3 PCB & CLP 132	0.0 ppm H.S. = 21.2
5.0		
6.0	GEO S-4 PCB 135	0.0 ppm H.S. = 7.1
7.0		
8.0	GEO S-5 PCB 136 OVP 137	0.0 ppm H.S. = 13.9
10.0		

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____
Elevation Top Of Riser Pipe 262.20'
Elevation Ground Surface 260.55'
(surveyed elevations)
(depth from ground surface)

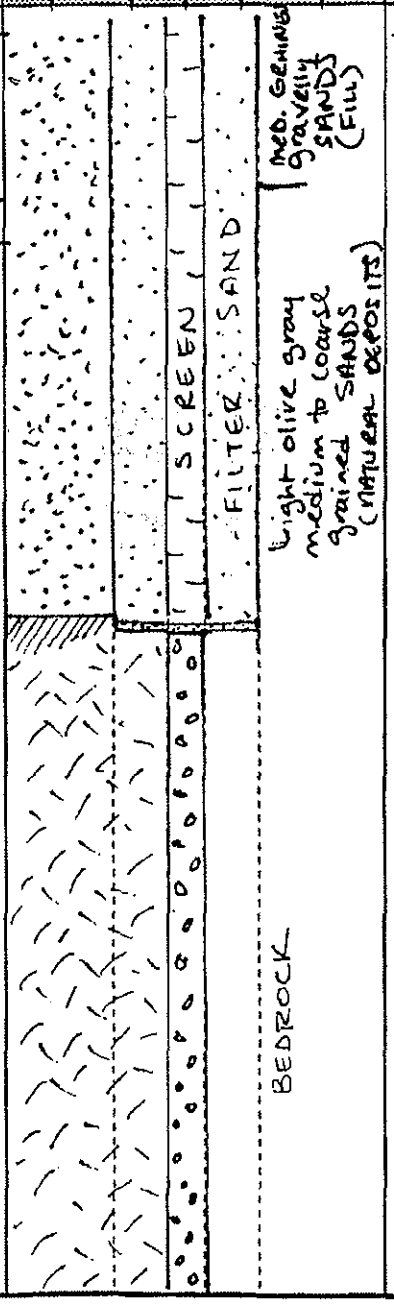
Type of Surface Casing STEEL PIPE
I.D. Surface Casing 6" ϕ
Type Of Riser Pipe PVC Schedule 40
I.D. Riser Pipe 2" ϕ
Diameter Of Borehole 8" ϕ
Type Of Backfill —
Type Of Seal BENT. CHIPS + VOLCLAY
Depth To Top Of Seal 2.5'
Type Of Sand Pack OTTAWA SAND
Depth To Top Of Sand Pack 4.5'
Type Of Screen PVC
Slot Size .010
I.D. Screen 2"
Screened Interval 5.3' - 17.2'
Depth To Bottom Of Well 17.2'
Depth To Bottom Of Borehole 28.0'

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-07A
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10	GEO S-6 PCB 139	0.0 ppm		
11		H.S. = 61.9		
12	GEO S-7 PCB 140	0.0 ppm H.S. = 13.5		
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				



Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-07A
Client EPA - Region 1
Project Fletcher Paint
Case No.

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
24			BEDROCK	
25				
26				
27				
28				END OF BORING @ 28.0'

Arthur D Little

Monitoring Well Design

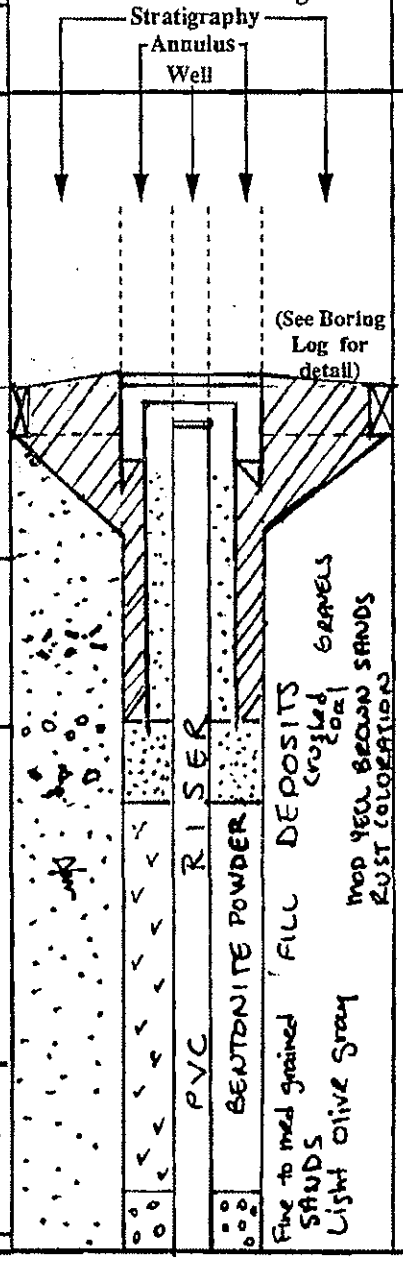
Boring No. MW-09A
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Date Start 12/2/91	Date Complete 12/18/91	Hole Diameter 8"	Casing Size 4 1/4" HSA
Contractor FLORES DRILLING		Geologist C. PIAGGIO	
Drill Method HSA		Boring Depth 34.7'	
Type Of Rig JACKER AD-2		Grout method VOLCLAY	
Datum DOUBLE NOTCH-RIM ON PVC RISER		Development Method —	

Notes

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)
0.0		
1.0	GEO S-1 FPW 233	0.0 ppm
2.0		H.S.=0.0
3.0	GEO S-2 FPW 234	1.0 ppm
4.0		H.S.=1.0
5.0	GEO S-3 CLP 3 FPW 235	0.0 ppm
6.0		
7.0		
8.0		H.S.=0.0
1.0	GEO S-4 FPW 238	0.0 ppm
10.0		H.S.=9.0

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____
Elevation Top Of Riser Pipe 257.91'
Elevation Ground Surface 258.52'
(surveyed elevations)
(depth from ground surface)

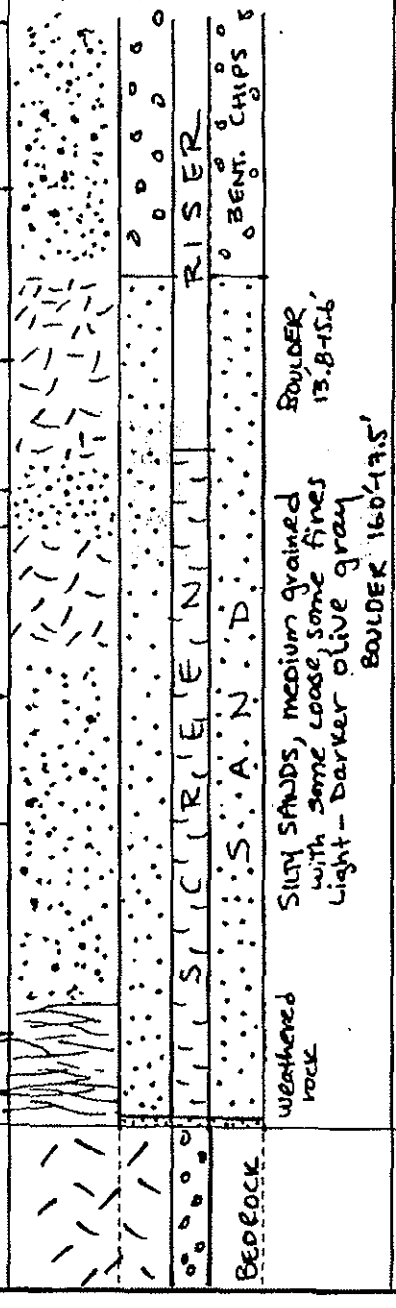
Type of Surface Casing Cast manhole
I.D. Surface Casing 5"ϕ locking steel/12" manhole
Type Of Riser Pipe Schedule 40
I.D. Riser Pipe 2"ϕ
Diameter Of Borehole 8"
Type Of Backfill VOLCLAY
Type Of Seal Bent. Chips
Depth To Top Of Seal 11'
Type Of Sand Pack OTTAWA SAND
Depth To Top Of Sand Pack 14 1/2'
Type Of Screen Schedule 40 slotted
Slot Size .010'
I.D. Screen 2"ϕ
Screened Interval 15.0'-23.0'
Depth To Bottom Of Well 23.0'
Depth To Bottom Of Borehole 34.7'

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-09A
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0				
11.0	6EO S-5 FPW 239	0.0 ppm		
12.0		H.S. = 20.0		
13.0	6EO S-6 FPW 240	0.0 ppm		
14.0		H.S. = 6.0		
15.0				
16.0	6EO S-7 FPW 279	0.0 ppm H.S. = 0.0		
17.0				
18.0	6EO S-8	0.0 ppm		
19.0		H.S. = 2.0		
20.0				
21.0				
22.0	FPW CLP 281 6EO S-9	0.0 ppm		
23.0				TOP OF ROCK @ 23.2'
24.0				

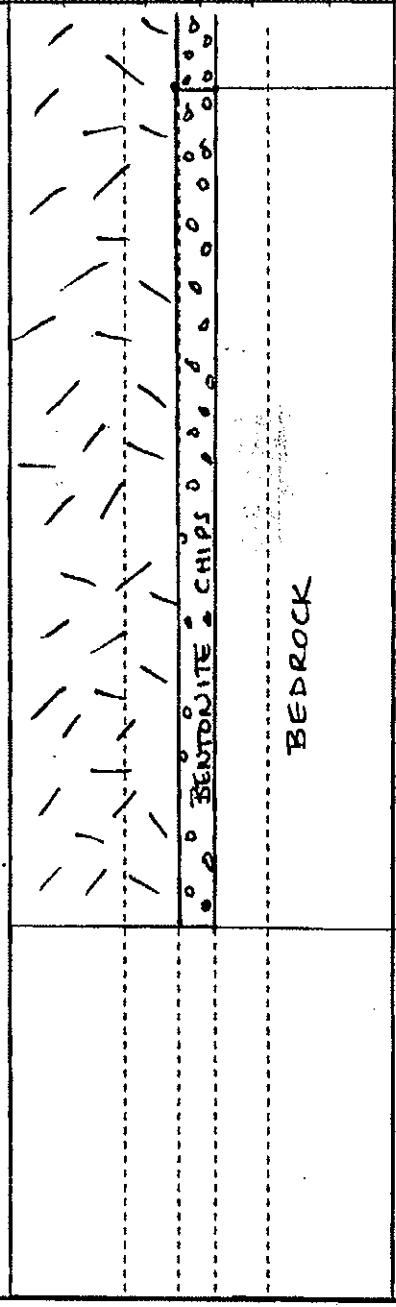


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-09A
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
24.0				
25.0				TOP OF CUT AT 24.7'
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				BOTTOM OF BOREHOLE AT 34.7'
36.0				
37.0				
38.0				



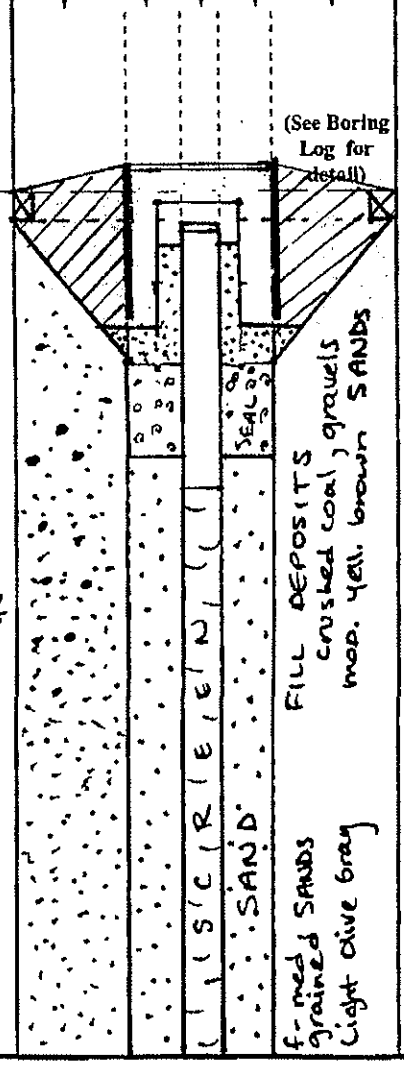
Arthur D Little

Monitoring Well Design

Boring No. MW-09B
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Date Start 12/09/91	Date Complete 12-18-91	Hole Diameter 8" ϕ	Casing Size 4 1/4 HSA
Contractor FLORES DRILLING		Geologist C. PIAGGIO	
Drill Method HSA		Boring Depth 15.1'	
Type Of Rig ACKER AD2		Grout method BENT. CHIPS + POWDER	
Datum Double notch on Riser		Development Method —	
Notes NO SAMPLES COLLECTED AT THIS LOCATION			

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Construction Specifications
0.0	No SAMPLING CONDUCTED AT THIS BOREHOLE.			Elevation Top Of Casing _____
				Elevation Top Of Riser Pipe 258.55'
				Elevation Ground Surface 259.30'
				(surveyed elevations)
				(depth from ground surface)
1.0				Type of Surface Casing Steel Standpipe Cast manhole
				I.D. Surface Casing 5" locking steel, 12" manhole
2.0				Type Of Riser Pipe Schedule 40
				I.D. Riser Pipe 2" ϕ
3.0				Diameter Of Borehole 8" ϕ
4.0				Type Of Backfill BENT. CHIPS + POWDER
				Type Of Seal BENT. CHIPS + POWDER
5.0				Depth To Top Of Seal 2.0'
				Type Of Sand Pack OTTAWA SAND
6.0				Depth To Top Of Sand Pack 3.2'
7.0				Type Of Screen Schedule 40 Slotted
				Slot Size .010'
				I.D. Screen 2" ϕ
8.0				Screened Interval 3 1/2' - 15.0'
				Depth To Bottom Of Well 15.0'
9.0				Depth To Bottom Of Borehole 15.1'
10.0				

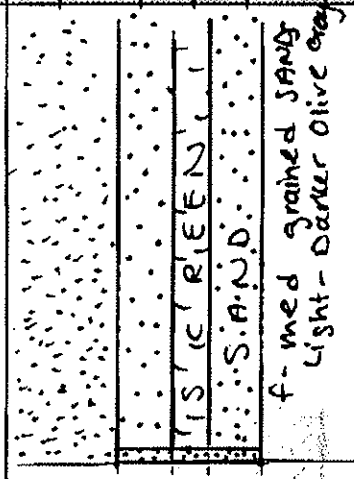


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-09B
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

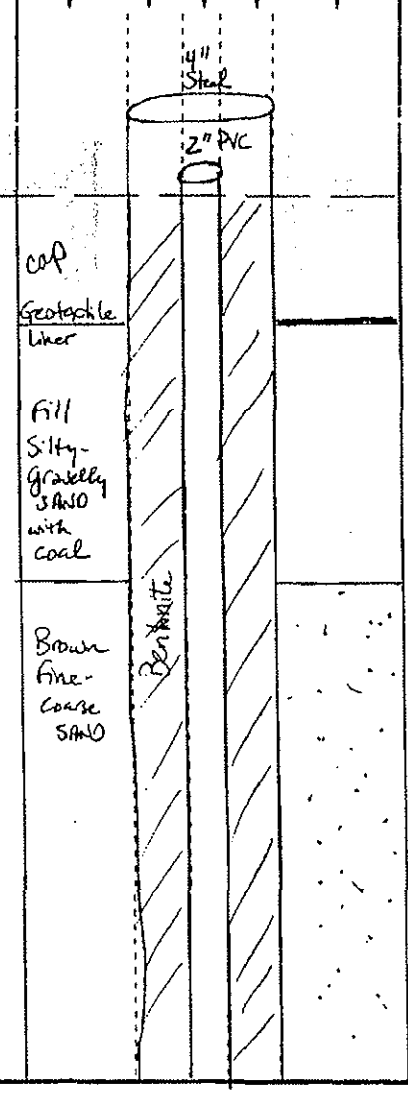
Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				END OF BORING AT 15.1' ROCK MATERIAL - AUGER REFUSAL
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				



Arthur D Little	Monitoring Well Design	Boring No. MW-21C Client USEPA Project FLETCHER PAINT Case No.

Date Start 11/22/93	Date Complete 11/23/93	Hole Diameter 7"	Casing Size 4"
Contractor Environmental Drilling		Geologist E. Healy / H. Webber	
Drill Method hollowstem auger / N/A Cover		Boring Depth 30.5'	
Type Of Rig Acker		Grout method Bentonite	
Datum Top of PVC well casing		Development Method Pump	
Notes			

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Construction Specifications
0.0				Elevation Top Of Casing 262.76 Elevation Top Of Riser Pipe 262.37 Elevation Ground Surface — (surveyed elevations) (depth from ground surface)
1.0'			cap	Type of Surface Casing Steel I.D. Surface Casing 4"
1.5'			Geotextile liner	
2.0'				Type Of Riser Pipe PVC I.D. Riser Pipe 2"
3.0'			Fill Silty-Gravelly SAND with coal	Diameter Of Borehole Type Of Backfill N/A
4.0'				Type Of Seal Bentonite Depth To Top Of Seal 0.0
5.0'			Brown Fine-Coarse SAND	Type Of Sand Pack #2 QUARTZ Depth To Top Of Sand Pack 24.0
6.0'				
7.0'				Type Of Screen PVC Slot Size 0.010 I.D. Screen 2" Screened Interval 5'
8.0'				Depth To Bottom Of Well 27.5'
9.0'				Depth To Bottom Of Borehole 30.5'
10.0'				



Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-21C
Client USEPA
Project FLETCHER
Case No. 62360

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
11.0'				
12.0'			Gradelly fine-coarse SAND	
13.0'				
14.0'				
15.0'				
16.0'				
17.0'				
18.0'			Medium Dense fine-coarse SAND little angular granite gravel	
19.0'				
20.0'				
21.0'			Weathered Rock	
22.0'			Semi-competent bedrock	
23.0'			competent bedrock GRANITE	
24.0'				
25.0'			SAND	SCREEN 24.5-29.5'

Bentonite

Arthur D Little

Monitoring Well Design
(Continuation Page)

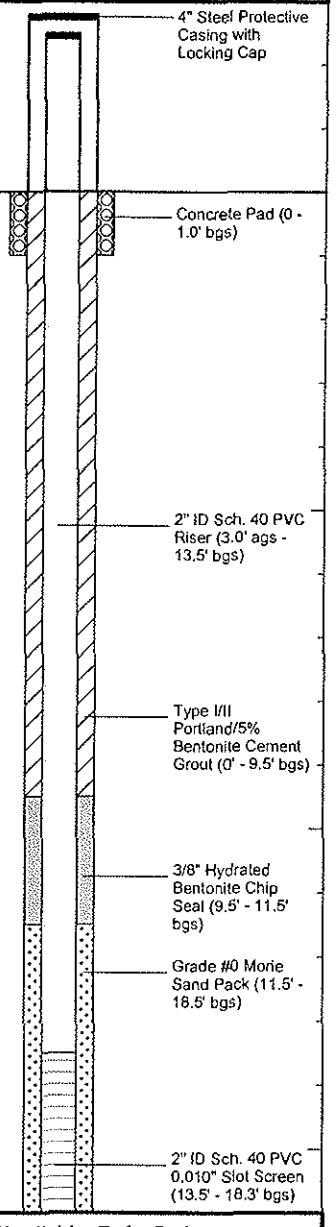
Boring No. MW-21C
Client USEPA
Project FLETCHER
Case No. 62360

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
26.0'			GRANITE	
27.0'			SAND	
28.0'				
29.0'				29.5' Well Depth
30.0'				
30.5'				

Date Start/Finish: 1/19/04 & 1/27/04 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Drive and Wash **Bit Size:** 5-7/8" **Auger Size:** 4.25" ID **Rig Type:** Diedrich D-120 ATV **Sampling Method:** 2" OD x 2' **Core Size:** NA **Casing Size:** 6.00" Flush Joint	**Northing:** 121601.2 **Easting:** 987391.5 **Casing Elevation:** 262.62' **Borehole Depth:** 19' below grade **Surface Elevation:** 259.5' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-22A **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	260								
0		1	0-1	0.5	18 120/1"	Ref	0.04		Light brown fine SAND and SILT, trace medium to coarse Sand, frozen.
		2	1-3	1.2	10 7 6 6	13	4.78		Dark brown fine to medium SAND, trace coarse Sand, Silt, and coal, damp. [FILL] Trace fine Gravel below 3.0' bgs. [FILL]
	255	3	3-5	1.1	11 4 9 18	13	0.20		
5		4	5-7	1.4	7 5 6 6	11	0.16		Light brown fine SAND, trace medium to coarse Sand, saturated.
		5	7-9	1.4	5 5 6 4	11	0.19		
	250	6	9-11	0.0	6 8 6 7	14	NA		No Recovery.
10		7	11-13	0.7	7 9 13 16	22	0.32		Light brown fine SAND, trace medium to coarse Sand, trace Silt, saturated.
	245	8	13-15	0.3	5 4 4 6	8	NA		Brass liner sample collected.
15		9	15-17	1.0	4 4	15	NA		Brass liner sample collected.

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal. Refusal at 15.6' bgs on first attempt on 1/14/04. Grouted borehole to grade and relocated.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-22A

Borehole Depth: 19' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		9	15-17	1.0	11 17	15	NA		Brass liner sample collected.	Grade #0 Morie Sand Pack (11.5' - 18.5' bgs)
		10	17-19	0.4	120/4"	Ref	NA		Light gray fine to coarse SAND, little fine to medium subangular to angular Granite Gravel, trace Silt, dense. Brass liner sample collected.	2" ID Sch. 40 PVC 0.010" Slot Screen (13.5' - 18.3' bgs) 2" ID Sch. PVC well point (18.3' - 18.5' bgs)
20	240									
25	235									
30	230									
35	225									

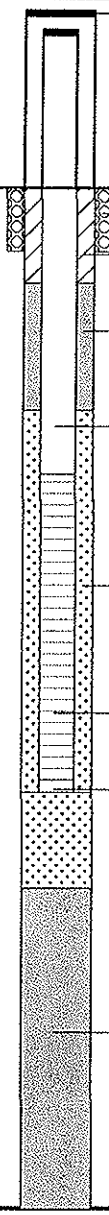
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal. Refusal at 15.6' bgs on first attempt on 1/14/04. Grouted borehole to grade and relocated.

Date Start/Finish: 1/28/04 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Drive and Wash **Bit Size:** 5-7/8" **Auger Size:** 4.25" ID **Rig Type:** Diedrich D-120 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' **Core Size:** NA **Casing Size:** 6.00" Flush Joint	**Northing:** 121601.2 **Easting:** 987385.6 **Casing Elevation:** 262.41' **Borehole Depth:** 19' below grade **Surface Elevation:** 259.5' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-22B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	260								
0		1	0-1	0.5	19 120/4"	Ref	0.77		Dark brown fine SAND and SILT, trace natural organics (leaves), frozen. Light brown fine SAND, trace medium to coarse Sand, trace Silt, frozen. Not frozen below 1.0' bgs, damp.
		2	1-3	0.9	32 7 120/5" -	Ref	0.45		Brown fine SAND, little Silt, trace medium to coarse Sand, trace Coal, damp.
		3	3-4	0.4	15 15	15	NA		
	255	4	4-6	1.0	10 12 10 12	22	NA		Brass Liner Sample.
5		5	6-8	1.0	10 15 12 14	27	NA		Brass Liner Sample.
		6	8-10	0.9	8 7 9 10	16	NA		Brass Liner Sample.
	250								
10		7	10-11	0.0	6 4	4	NA		No Recovery.
		8	11-13	0.7	7 7 8 9	15	1.7		Brown fine SAND, trace medium to coarse Sand and Silt, saturated.
		9	13-15	0.5	3 3 5 7	8	NA		Brass Liner Sample.
	245								
15		10	15-17	0.7	7 9	28	0.63		Brown fine SAND, trace medium to coarse Sand and Silt, saturated.

Well/Boring Construction



- 4" Steel Protective Casing w/ Locking Cap.
- Concrete Pad (0 - 1.0' bgs)
- Type I/II Portland/5% Bentonite Cement Grout (0 - 1.5' bgs)
- 3/8" Hydrated Bentonite Chip Seal (1.5' - 3.5' bgs)
- 2" ID Sch. 40 PVC Riser (3.0' ags - 4.5' bgs)
- Grade #0 Morie Sand Pack (3.5' - 11' bgs)
- 2" ID Sch. 40 PVC 0.010" Slot Screen (4.5' - 9.3' bgs)
- 2" ID Sch. PVC Well Point (9.3' - 9.5' bgs)
- 3/8" Hydrated Bentonite Chip Seal (11' - 19' bgs)

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-22B

Borehole Depth: 19' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		10	15-17	0.7	19 23	28	0.63		Brown fine SAND, trace medium to coarse Sand and Silt, saturated.	
		1	17-19	1.0	17 24 26 32	50	NA		Brass Liner Sample.	3/8" Hydrated Bentonite Chip Seal (11' - 19' bgs)
20	240									
25	235									
30	230									
35	225									

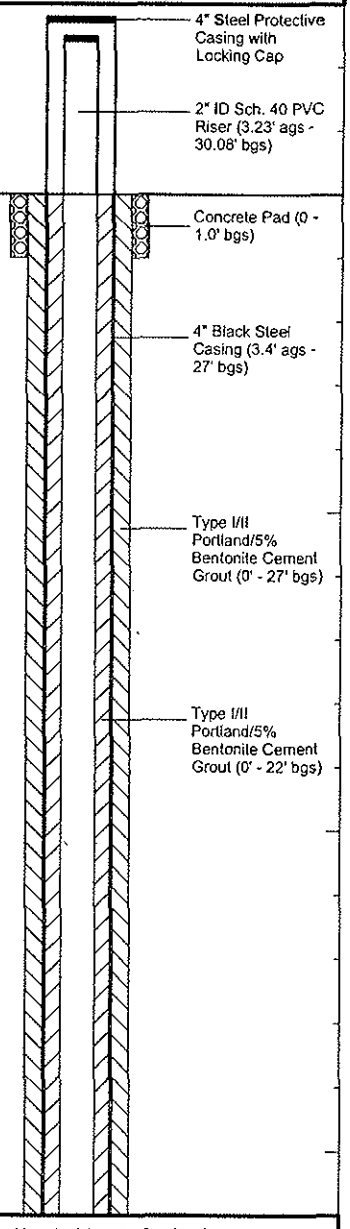
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal.

Date Start/Finish: 1/13/04, 1/29/04, 2/2/04, 2/3/04 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Driven Casing/Rock Core **Bit Size:** 5-7/8" **Auger Size:** 4.25" ID **Rig Type:** Diedrich D-120 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** HV (HQ) **Casing Size:** 6.00" Flush Joint	**Northing:** 121602.1 **Easting:** 987395.9 **Casing Elevation:** 262.69' **Borehole Depth:** 42' below grade **Surface Elevation:** 259.5' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-22C/MSSB-C09 **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	260								
0		1	0-1	0.6	15 9	9	0.15		Light brown fine SAND, trace Silt and Organics (leaves), frozen. [FILL]
		2	1-3	0.8	2 3 4 120/4"	7	0.23		Dark brown loamy fine SAND, trace Organics (leaves, roots, and wood), damp. [FILL]
									Dark brown to black fine to medium SAND, little coarse Sand and Coal, trace Silt, damp. [FILL]
	255	3	3-5	1.5	20 11 7 6	18	1.46		Orange-brown fine to medium SAND, little coarse Sand, trace fine to medium subrounded Gravel, loose, damp.
5		4	5-7	1.5	7 7 6 7	13	7.32		Light brown fine SAND, trace Silt, moist.
		5	7-9	1.2	7 7 7 7	14	2.03		Light brown fine SAND, trace medium Sand and Silt, saturated.
	250	6	9-11	0.7	5 4 5 4	9	0.69		
10		7	11-13	1.0	4 4 5 8	9	0.80		
	245	8	13-15	0.8	2 2 2 4	4	3.00		
15		9	15-17	1.3	4 4	11	4.52		Light brown fine to medium Sand, trace coarse Sand and Silt, loose, saturated.

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal.

Client:
General Electric Company

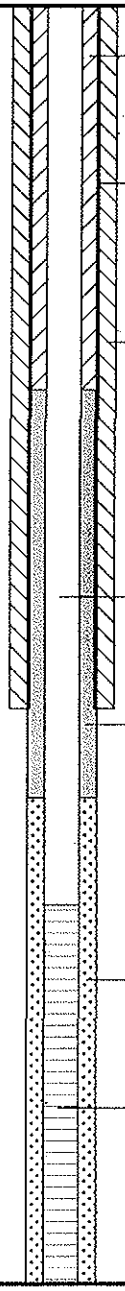
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-22C/MSSB-C09

Borehole Depth: 42' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
		9	15-17	1.3	7 16	11	4.52		Light brown fine to medium Sand, trace coarse Sand and Silt, loose, saturated.
		10	17-19	0.8	11 13 26 32	39	1.14		Light brown fine to coarse SAND, trace fine to medium angular to subangular Gravel and Silt, saturated.
20	240	11	19-21	0.5	50 37 120/0" -	Ref	3.20		
									Casing refusal at 22' bgs. [BEDROCK]
25	235								5-7/8" Rollerbit from 22' - 27' bgs.
30	230	1	27-32	4.8	Min/Ft. 35:00 25:00 35:00 3:00 4:00	RQD 7	NA		Dark gray fine-grained highly fractured Granitic GNEISS, occasional 40° foliation. Coarse-grained Granite intrusion from 29.3' - 30.5' bgs. Secondary mineralization evident in many fractures (pyrite). 45° fracture at 27.3 bgs; 6° fracture at 27.4' bgs; horizontal fractures at 27.5' and 27.7' bgs; 40° fracture at 27.8' bgs; 10° fracture at 27.1' bgs; irregular/horizontal fractures at 28.0', 28.3', and 28.4' bgs (cross foliation). Some horizontal fracturing from approximately 28.5' to 30' bgs; 22° fracture with coarse-grained Granite intrusion at 30.3' bgs; 10° fractures at 30.4' and 30.6' bgs; 15° fracture at 30.7' bgs; 20° fractures at 30.9' and 31.1' bgs; irregular/horizontal fractures at 31.4' and 31.6' bgs.
35	225	2	32-37	4.9	4:00 3:00 2:00 2:00	77	NA		Dark gray fine-grained moderately fractured Granitic GNEISS, occasional 30° - 40° foliaion with coarse-grained Granite intrusion from 34.4' - 37' bgs. 20° fractures at 32.5' and 32.6' bgs. 13° fracture at 32.8' bgs. Irregular/Horizontal fractures at 33.3', 33.5' (cross foliation), and 33.9' bgs. Some horizontal fracturing from approximately 34.1' to 36.3' bgs.

Well/Boring Construction



- Type I/II Portland/5% Bentonite Cement Grout (0' - 22' bgs)
- 4" Black Steel Casing (3.4' ags - 27' bgs)
- Type I/II Portland/5% Bentonite Cement Grout (0' - 27' bgs)
- 2" ID Sch. 40 PVC Riser (3.23' ags - 30.08' bgs)
- 3/8" Hydrated Bentonite Chip Seal (22' - 28.4' bgs)
- Grade #0 Morrie Sand Pack (28.4' - 39.88' bgs)
- 2" ID Sch. 40 PVC 0.010" Slot Screen (30.08' - 39.88' bgs)

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal.

Client:
General Electric Company

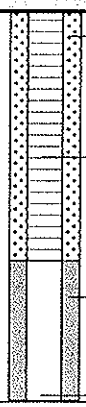
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-22C/MSSB-C09

Borehole Depth: 42' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
		2	32-37	4.9	2:00	77	NA		Dark gray fine-grained moderately fractured Granitic GNEISS, occasional 30° - 40° foliaion with coarse-grained Granite intrusion from 34.4' - 37' bgs. Horizontal fractures at 36.3' and 37' bgs.
					4:00				Pink to gray slightly fractured fine-grained GRANITE, intermittent coarse-grained Granite intrusions from 36.2' - 38.7' bgs and 41.4' - 42' bgs. Horizontal fractures at 37.6', 38.2', and 41.3' bgs. Irregular fracture at 37.8' bgs; 5° fracture at 38.5' bgs.
					5:00				
	220	3	37-42	4.9	5:00	87	NA		
40					5:00				
					6:00				
	215								
45									
	210								
50									
	205								
55									

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal.

Draft for EPA Review

Off-Site Monitoring Wells

BBL®

BLASLAND, BOUCK & LEE, INC.

engineers, scientists, economists

Arthur D Little

Monitoring Well Design

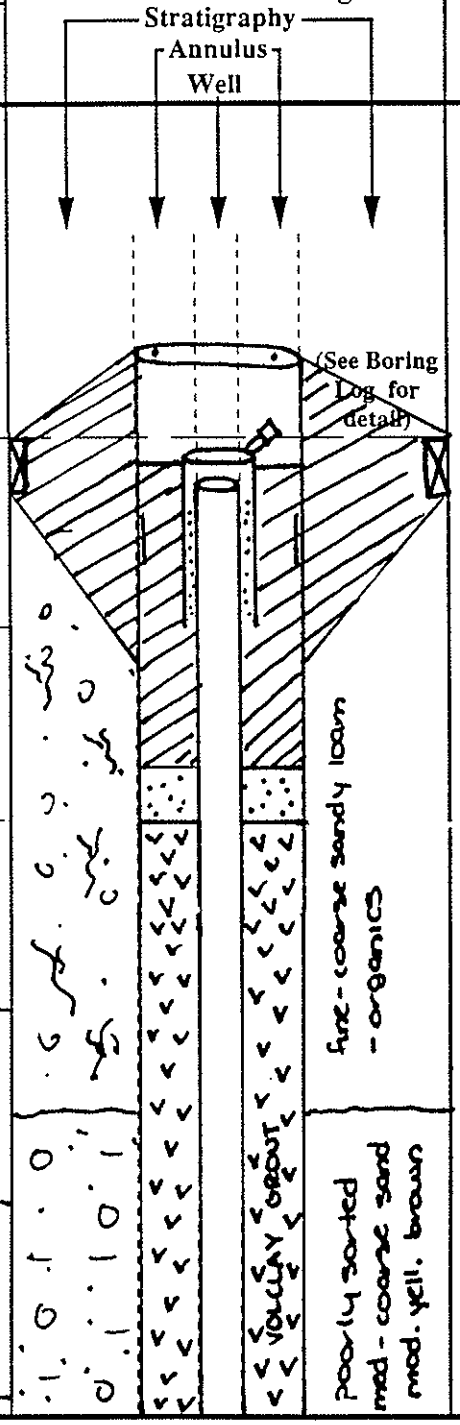
Boring No. MW-08A
Client EPA REGION 1
Project FLETCHER PAINT
Case No. 62360-03

Date Start DEC. 12, 1992	Date Complete DEC. 12, 1992	Hole Diameter 4"	Casing Size 4"
Contractor CON-TEC		Geologist KEVIN ELLINGWOOD	
Drill Method DRIVE & WASH		Boring Depth 39.0'	
Type Of Rig DESDRICH D-50		Grout method VOLCLAY / TREMIE	
Datum GROUND SURFACE		Development Method TO BE DEVELOPED	

Notes: SHALLOW H_2O TABLE; USED 2.0' LOCKING STEEL CASING

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)
0.0	GED1 PCB 285	0.7 HS
1.0		
2.0	GED2 PCB 286	1.2 HS
3.0		
4.0	GED3 PCB/CLP 287	0.3 HS
5.0		
6.0	GED4	0.4 HS
7.0		
8.0	GED5	0.7 HS
9.0		
10.0		

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____
Elevation Top Of Riser Pipe 255.84
Elevation Ground Surface 256.60
(surveyed elevations)
(depth from ground surface)

Type of Surface Casing FLUSH MOUNT
I.D. Surface Casing 12" CAST MANHOLE
Type Of Riser Pipe SCHEDULE 40 PVC
I.D. Riser Pipe 2"
Diameter Of Borehole 4"
Type Of Backfill GROUT / BENTONITE
Type Of Seal BENTONITE CHIPS
Depth To Top Of Seal 12.0'
Type Of Sand Pack OTAWA SAND
Depth To Top Of Sand Pack 16.0'
Type Of Screen SCHEDULE 40 PVC
Slot Size 0.010 SLOT
I.D. Screen 2"
Screened Interval 18.0 TO 28.0'
Depth To Bottom Of Well 28.0'
Depth To Bottom Of Borehole 39.0'

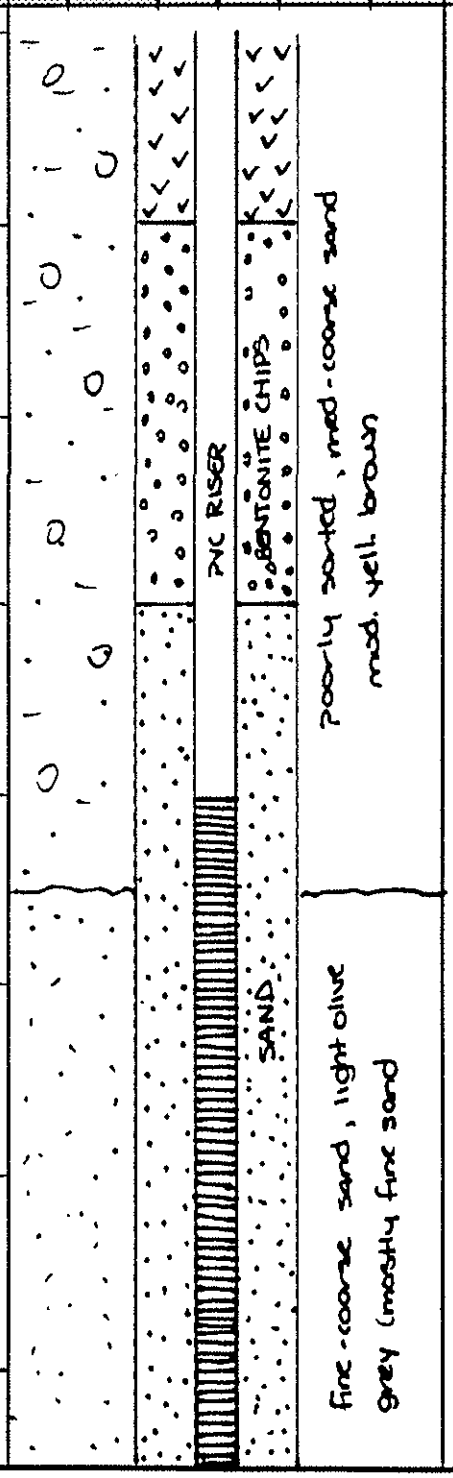
Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-08A
Client EPA Region I
Project Fletcher Point
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Notes and Comments
10.0	GEO6 PCB 288	0.8 HS	
11.0			
12.0	GEO7	0.2 HS	
13.0			
14.0	GEO8	0.8 HS	
15.0			
16.0	GEO9 PCB 289	0.7 HS	
17.0			
18.0	GEO10	-	
19.0	NO RECOVERY		
20.0	GEO11 PCB 290	0.6 HS	
21.0			
22.0	GEO12	1.6 HS	
23.0			
24.0			

Well Construction Diagram

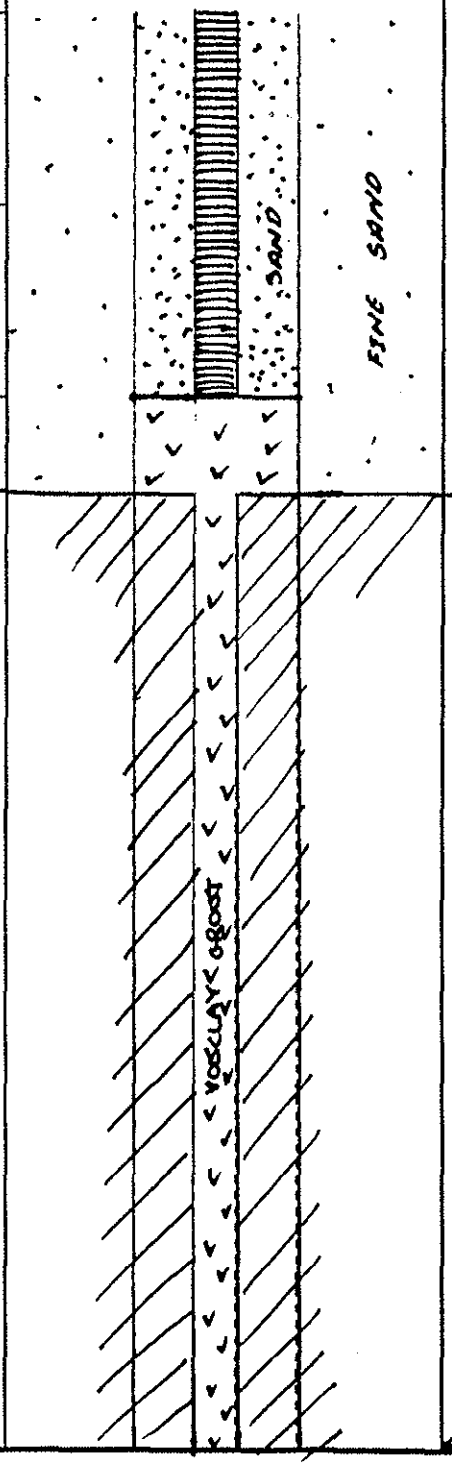


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-08A
Client EPA REGION I
Project FLETCHER PAINT
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
24.0	GEO 13	1.4 HS		
25.0				
26.0	GEO 14			
27.0	PB1CLP 291	4.2 HS		
28.0				
29.0	BEGIN CORING			TOP OF BEDROCK
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				BOTTOM OF CORE



Arthur D Little

Monitoring Well Design

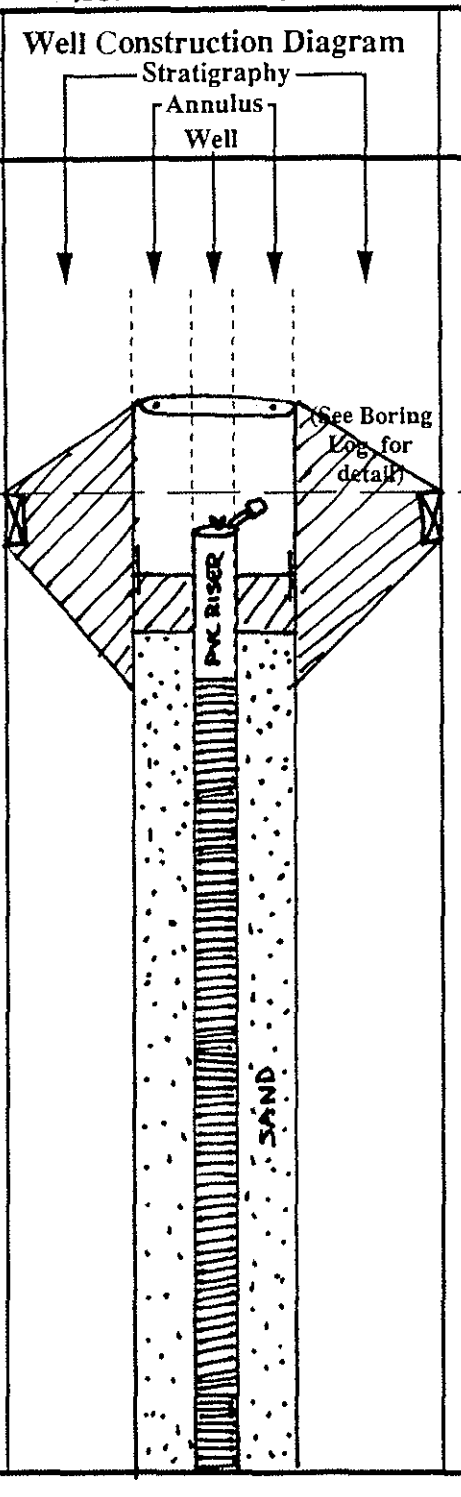
Boring No. MW-08B
Client EPA - REGION 1
Project FLETCHER PAINT
Case No. 62360-03

Date Start 12-12-91	Date Complete 12-12-91	Hole Diameter 4"	Casing Size 4"

Contractor CON-TEC	Geologist K. ELLINGWOOD
Drill Method DRIVE 4" CASING	Boring Depth 12.3'
Type Of Rig DIEDRICH D-50	Grout method VOLCLAY
Datum GROUND SURFACE	Development Method TO BE DEVELOPED

Notes SEE DAILY DRILLING REPORTS - SHALLOW H_2O TABLE

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram	Construction Specifications
0.0	REFER TO MW-08A FOR GEOLOGIC DESCRIPTION (NO SAMPLES COLLECTED FROM MW-08B)			
1.0				
2.0				
3.0				
4.0				
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				



Elevation Top Of Casing _____

Elevation Top Of Riser Pipe 256.39'

Elevation Ground Surface 256.69'

(surveyed elevations)
(depth from ground surface)

Type of Surface Casing FLUSH MOUNT
I.D. Surface Casing 12" CAST MANHOLE

Type Of Riser Pipe SCHEDULE 40 PVC
I.D. Riser Pipe 2"

Diameter Of Borehole 4"

Type Of Backfill SAND, GROUT

Type Of Seal NA
Depth To Top Of Seal NA

Type Of Sand Pack OTTAWA SAND
Depth To Top Of Sand Pack 1.5'

Type Of Screen SCHEDULE 40 PVC
Slot Size 0.010 SLOT
I.D. Screen 2"
Screened Interval 2.0 - 12.0'

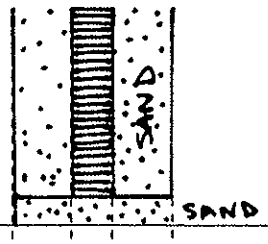
Depth To Bottom Of Well 12.0'

Depth To Bottom Of Borehole 12.3'

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-08B
Client EPA-REGION 1
Project FLETCHER PAINT
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0				
11.0				
12.0				
13.0				BOTTOM OF BOREHOLE AT 12.3'
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				

Arthur D Little

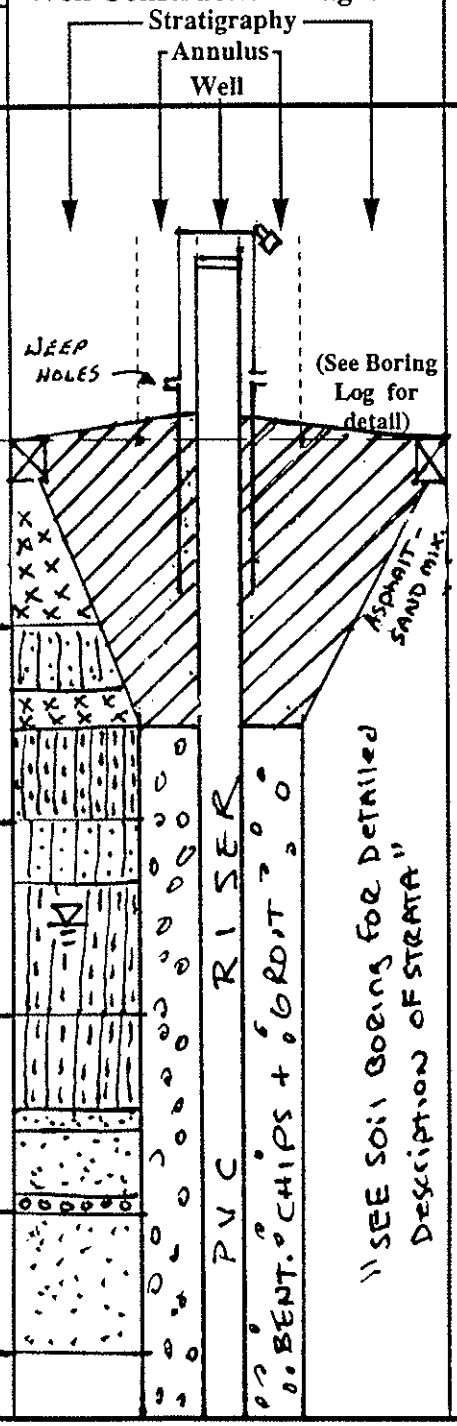
Monitoring Well Design

Boring No. EB-10A
Client EPA - Region 1
Project Fletcher Paint
Case No. 62360-03

Date Start 11-25-91	Date Complete 11/25/91	Hole Diameter 8" ϕ	Casing Size 4" ϕ
Contractor FLORES DRILLING		Geologist C. PIAGGIO	
Drill Method HSA		Boring Depth 43.2'	
Type Of Rig ACKER AD-2 (Bedrock core)		Grout method GROUT + BENT. CHIPS	
Datum DOUBLE NOTCH DIC RIVER		Development Method —	
Notes			

Scale in Feet	SAMPLE Type and Number	SAMPLE Total Organics (ppm)
0.0	GEOL. FPW (046)	0
1.0		HS = 10.9
2.0	GEOL. FPW (165)	0
3.0		HS = 11.9
4.0	GEOL. FPW (166)	0
5.0		HS = 4.4
6.0	GEOL. FPW (167)	0
7.0		HS = 2.9
8.0	FPW CLP (168)	0
9.0		
10.0		

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____
Elevation Top Of Riser Pipe 259.38'
Elevation Ground Surface 257.80'
(surveyed elevations)
(depth from ground surface)

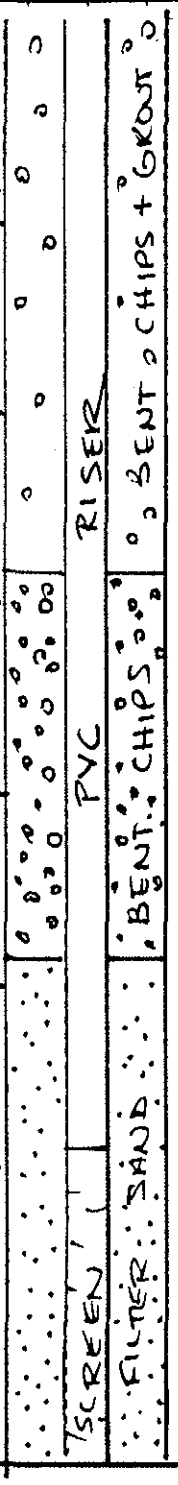
Type of Surface Casing STEEL PIPE
I.D. Surface Casing 6" ϕ
Type Of Riser Pipe Schedule 40 PVC
I.D. Riser Pipe 2"
Diameter Of Borehole 8" ϕ
Type Of Backfill GROUT + BENT. CHIPS
Type Of Seal BENT. CHIPS
Depth To Top Of Seal 15.7'
Type Of Sand Pack OTTAWA SAND
Depth To Top Of Sand Pack 19.7'
Type Of Screen PVC
Slot Size .010'
I.D. Screen 2" ϕ
Screened Interval 21.7'-31.7'
Depth To Bottom Of Well 31.7'
Depth To Bottom Of Borehole 43.2'

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-10A
Client EPA Regional
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0	GEOL. FPW (169)	0 HS = 3.3		
11.0				
12.0	GEOL.	0 HS = 5.1		
13.0				
14.0	GEOL.	0 HS = 5.4		
15.0				
16.0	GEOL. FPW (170)	0 HS = 6.5		
17.0				
18.0	CLP FPW (175)	0 —		
19.0				
20.0	—	—		* 20-22' → "WASH"
21.0				
22.0	GEOL.	0 HS = 66.7		
23.0				
24.0				



Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-104
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
24.0	"SEE PREVIOUS PAGE"			
25.0	GEOL. FPW (188)	0		
26.0		HS=24.8		
27.0	GEOL.	0		
28.0		HS=22		
29.0	GEOL.	0		
30.0		HS=		
31.0				
32.0				TOP OF ROCK ≈ 31.8'
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				

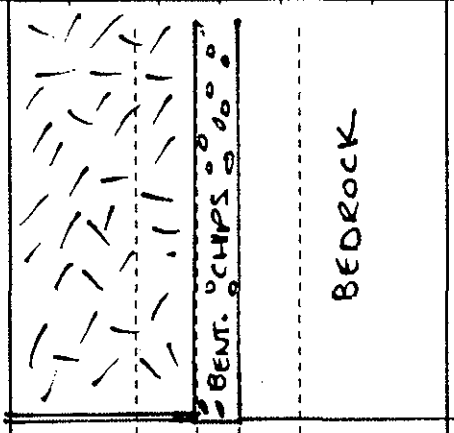
Well Construction Diagram:
- Stratigraphy: Fine to coarse well graded sands. Loose to med. compaction.
- Stratigraphy: Light-olive gray, compact silty sand (Till)
- Annulus: Filter sand
- Well: Slotted screen
- Annulus: Bentonite chips
- Stratigraphy: Bedrock

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-10A
Client EPA Region 1
Project 62360-03
Case No. Fletcher Paint

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
39.0				
40.0				
41.0				
42.0				
43.0				END OF BORING @ 43.2'
44.0				



Arthur D Little

Monitoring Well Design

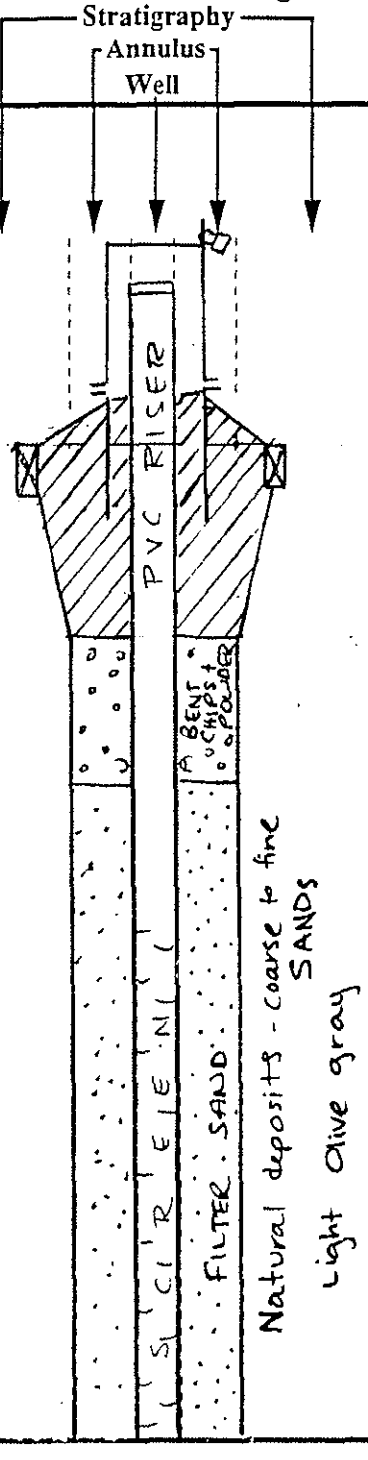
Boring No.	EB-103
Client	EPA Region 1
Project	Fletcher Paint
Case No.	62360-03

Date Start 11/26/91	Date Complete 12-10-91	Hole Diameter 12"	Casing Size 6" ID HSA

Contractor FLORES DRILLING	Geologist C. PIAGGIO
Drill Method HSA	Boring Depth 14.5'
Type Of Rig ACKER AD2	Grout method BENT POWDER + CHIPS
Datum DOUBLE NOTCH ON RISER	Development Method —

Notes NO SAMPLES TAKEN HERE

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram	Construction Specifications
2.0'				Elevation Top Of Casing _____
1.8'				Elevation Top Of Riser Pipe 258.95'
				Elevation Ground Surface 257.59'
0.0				(surveyed elevations)
				(depth from ground surface)
1.0	No Samples Collected, Refer to MW-10A			Type of Surface Casing LOCKING STEEL
				I.D. Surface Casing 5" ϕ
2.0				Type Of Riser Pipe Schedule 40 PVC
				I.D. Riser Pipe 2" ϕ ID
3.0				Diameter Of Borehole 12"
				Type Of Backfill BENT. POWDER + CHIPS
4.0				Type Of Seal BENT. POWDER + CHIPS
				Depth To Top Of Seal 2.0'
5.0				Type Of Sand Pack OTTAWA SAND
				Depth To Top Of Sand Pack 3.5'
6.0				Type Of Screen PVC SLOTTED
				Slot Size .010
7.0				I.D. Screen 2" ϕ
				Screened Interval 4'-14'
8.0				Depth To Bottom Of Well 14.0'
.0				Depth To Bottom Of Borehole 14.5'
10.0				

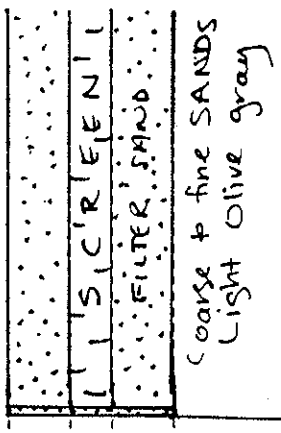


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. EB-10B
Client EPA Region 1
Project Fletcher Paint
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0				
11.0				
12.0				
13.0				
14.0				END OF BORING AT 14.5'
15.0				



Date Start/Finish: 12/11/03 , 12/16/03 **Drilling Company:** GeoSearch **Driller's Name:** P. Goodale/D. Crawford **Drilling Method:** HSA/Air Hammer/Rock Core **Bit Size:** 5-7/8" **Auger Size:** 6.25" ID **Rig Type:** CME-75 Truck-Mounted/Mobile B-59 **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** HV (HQ) **Casing Size:** NA	**Northing:** 121489.3 **Easting:** 987206.2 **Casing Elevation:** 261.62' **Borehole Depth:** 51' below grade **Surface Elevation:** 257' **Geologist:** Ron Kuhn/Leanne Roulier	**Well/Boring ID:** MW-10C **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
										Locking Cap
0		1	0-2	0.9	2 3 3 4	6	0.24		Dark brown fine SAND and SILT, trace medium to coarse Sand and fine to medium Gravel, trace Roots and Coal, damp. [FILL]	
	255	2	2-4	0.5	4 3 2 2	5	NA		Brass sleeve collected for geotechnical sample (Porosity, Bulk Density, and Total Organic Carbon).	4" ID Steel Casing (3.0' ags - 36' bgs).
5		3	4-6	1.5	2 1 1 4	2	43.2		Dark brown highly degraded natural organics (SILT), moist.	Type I/II Portland/5% Bentonite Grout (0 - 36' bgs)
	250	4	6-8	1.4	8 9 12 14	21	1.19		Gray-brown fine to medium SAND, trace coarse Sand, wet. Trace fine to medium Gravel and Silt, wet.	
		5	8-10	1.5	4 6 7 8	13	1.01		Gray-brown fine to medium SAND, trace coarse Sand, fine to medium Gravel and Silt, saturated.	
10		6	10-12	1.4	5 6 8 5	14	0.73		Gray-brown fine to coarse SAND, trace fine to medium Gravel and Silt, saturated.	
	245	7	12-14	1.2	5 6 6 5	12	0.58			
15		8	14-16	1.4	3 2 4 6	6	0.43		Color change to orange-brown below 14' bgs.	

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; HSA = Hollow Stem Auger.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-10C

Borehole Depth: 51' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	240	9	16-18	1.2	4 6 7 7	13	0.42		Orange-brown fine to coarse SAND, trace fine to medium Gravel and Silt, saturated.	
		10	18-20	1.0	2 2 2 3	4	0.23			4" ID Steel Casing (3' ags - 36' bgs).
20		11	20-22	1.1	1 2 3 2	5	0.75		Orange-brown fine to medium SAND, trace coarse Sand and Silt, saturated.	
	235	12	22-24	1.4	2 3 3 4	6	0.67			Type I/II Portland/5% Bentonite Grout (0 - 36' bgs)
25		13	24-26	1.5	2 4 9 17	13	0.31		Gray-brown medium to coarse SAND, trace fine Sand, fine to medium Gravel and Silt, saturated.	
	230	14	26-28	2.0	29 19 16 15	35	1.31		Gray-brown fine to coarse SAND, trace fine to medium Gravel and Silt, dense, saturated.	
		15	28-30	0.5	28 7 19 35	26	0.41		Gray-brown fine to coarse SAND, little fine to medium Gravel, trace Silt, dense, saturated. Auger Refusal at 31' bgs. [BEDROCK]	
30		16	30-31	0.6	16 17	NA	0.68			
	225								5-7/8" Air hammer from 31' - 36' bgs.	
35										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; HSA = Hollow Stem Auger.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-10C

Borehole Depth: 51' below grade

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
				Min/Ft.	RQD			Coarse-grained Milford GRANITE.	
				4:02					
220									
				4:50					
	1	36-40	3.9		100	0.5		Potential water-bearing 19° fracture at 38.2' bgs.	
				3:35					
				3:30					
40								Coarse-grained Milford GRANITE.	Open Hole (36' - 51' bgs)
				4:30					
				6:50					
215									
	2	40-45	4.9	7:00	100	0.2			
				8:10					
				10:00				Potential water-bearing horizontal fracture at 44.52' bgs.	
45								Coarse-grained Milford GRANITE, moderately weathered, slight green discoloration in grains and weathered surfaces from 46' - 50' bgs. Weathered horizontal facture surfaces at 46', 46.7', 46.9', 47.2' 47.6', 47.9', 49.0' - 49.1', and 49.9' - 50.9' bgs.	
				15:00					
				9:45				Pressure spike at 46.5' bgs potentially indicating a fracture.	
210									
	3	45-50	5.0	7:00	30	0.0			
				7:10					
				6:35					
50									
	4	50-51	0.4	6:30	40	0.0			
205									
55									

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; HSA = Hollow Stem Auger.

Arthur D Little

Monitoring Well Design

Boring No.	MW-11A
Client	EPA - REGION 1
Project	FLETCHER
Case No.	62360 -03

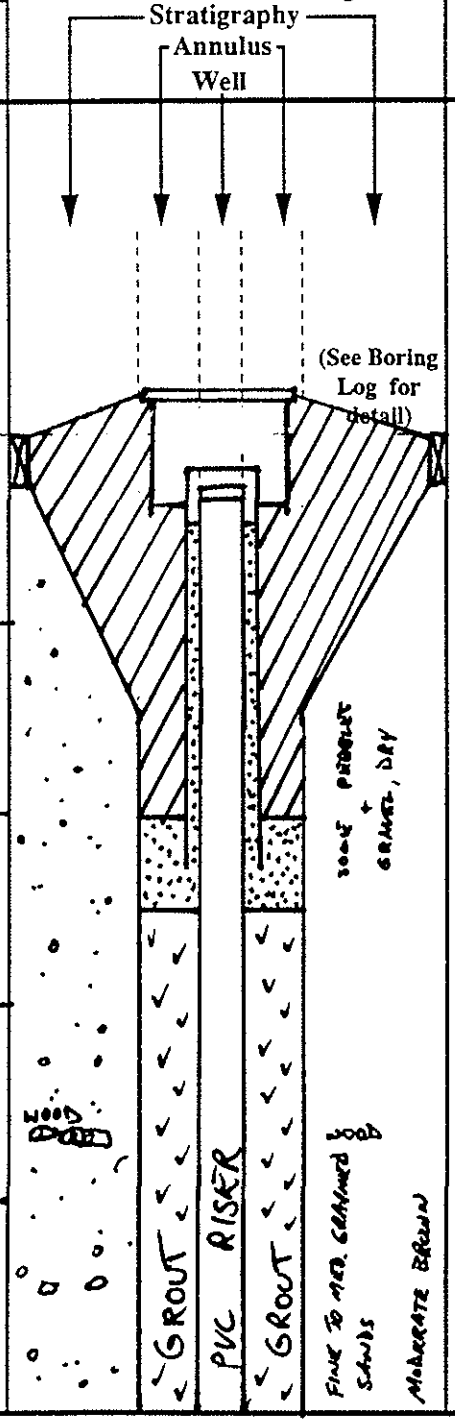
Date Start 12/4/91	Date Complete 12-10-91	Hole Diameter 4"	Casing Size 4" I.D.

Contractor Con-Tec	Geologist K. ELLINGWOOD
Drill Method HSA. / DRIVE + WASH	Boring Depth 88'
Type Of Rig DIEDRICH D-50	Grout method 'VOLCLAY' GROUT TREMMIED THRU CHEM-GROUT
Datum Double Notch on PVC RISER	Development Method To Be Developed

Notes

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)
0.0		
	S-1	
1.0	FPW-PCB DUP	
	253+254	2.1-H.S.
2.0		
	S-2	
3.0	FPW-PCB	
	255	N.D.-H.S.
4.0		
	S-3	
5.0		
	FPW-PCB	
	256	.3-H.S.
6.0		
	S-4	
7.0		
	FPW-PCB	
	257	.5-H.S.
8.0		
	S-5	
9.0		
	FPW-PCB	
10.0	258	0-H.S.

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____

Elevation Top Of Riser Pipe 269.01'

Elevation Ground Surface 269.67'

(surveyed elevations)

(depth from ground surface)

Type of Surface Casing STEEL STAND PIPE CAST MANHOLE

I.D. Surface Casing 5" LOCKING STEEL, 12" MANHOLE

Type Of Riser Pipe SCHEDULE 40 PVC

I.D. Riser Pipe 2"

Diameter Of Borehole 4"

Type Of Backfill Bentonite-Grout slurry

Type Of Seal Bentonite

Depth To Top Of Seal 61.8

Type Of Sand Pack OTTAWA SAND

Depth To Top Of Sand Pack 65.5

Type Of Screen SCHEDULE 40 PVC

Slot Size .010"

I.D. Screen 2"

Screened Interval 67.5' - 77.5'

Depth To Bottom Of Well 77.5'

Depth To Bottom Of Borehole 88'

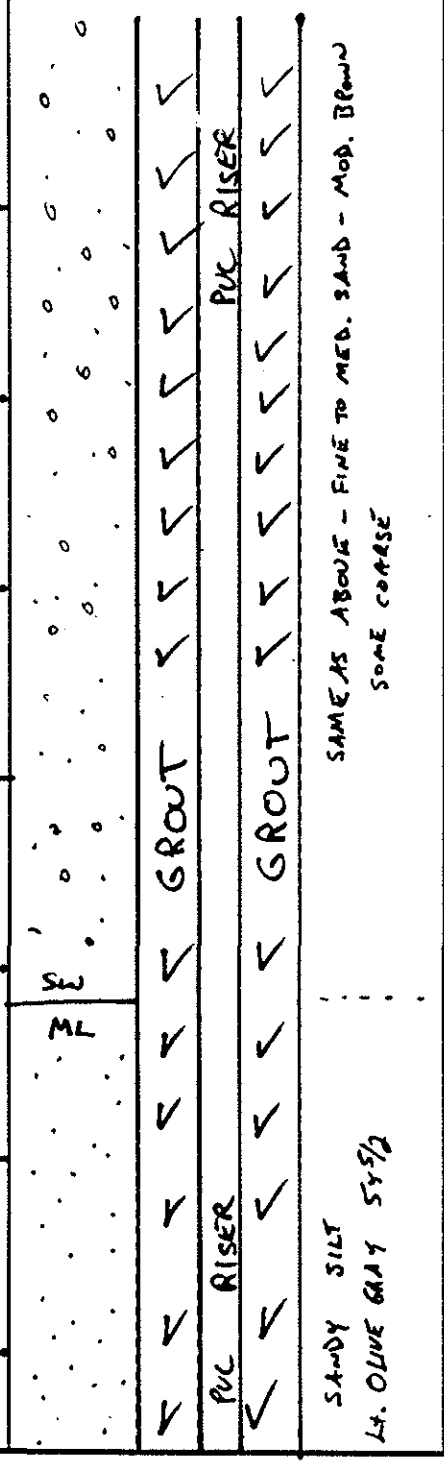
Arthur D Little

Monitoring Well Design

(Continuation Page)

Boring No.	MW-11A
Client	EPA-REGION 1
Project	FLETCHER
Case No.	62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0	S-6			
11.0	FPW-PCB 259	0-H.S.		
12.0	S-7			
13.0	FPW-PCB 260	0-H.S.		
14.0	S-8			
15.0	FPW-PCB 261	0-H.S.		
16.0	S-9			
17.0	FPW-PCB 262	0-H.S.		
18.0	S-10			
19.0	FPW-PCB 263	0-H.S.		
20.0	S-11		SW	
21.0	FPW-PCB 264	0-H.S.	ML	
22.0	S-12			
23.0	FPW-PCB 265	.7 H.S.		
24.0	S-13			
25.0	266	0-H.S.		



Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-11A
Client EPA-REGION I
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
25.0				
26.0	S-14			
27.0	FPW-PCB 267	0 H.S		
28.0	S-15		CHIPS	BENTONITE CHIPS USED TO BRIDGE ANNULUS AT ▽.
29.0	FPW-PCB 269	0 H.S.		
30.0	S-16			
31.0	FPW-CLP 268	0 H.S.		
32.0	S-17			
	FPW-PCB 270	0 H.S.		
33.0	S-18			
34.0				
35.0	S-19	0-H.S.		
36.0				
37.0	S-20	0-H.S.		
38.0	FPW-PCB 271	1.6 H.S		
39.0	S-21	0-H.S.		
40.0				

Stratigraphy: SILTY SAND 5Y5/2; SILT TO MED SAND SOME COARSE, LIGHT OLIVE GRAY 5Y5/2; ROCK FRAGMENTS

Annulus: GROUT

Well: PVC RISER

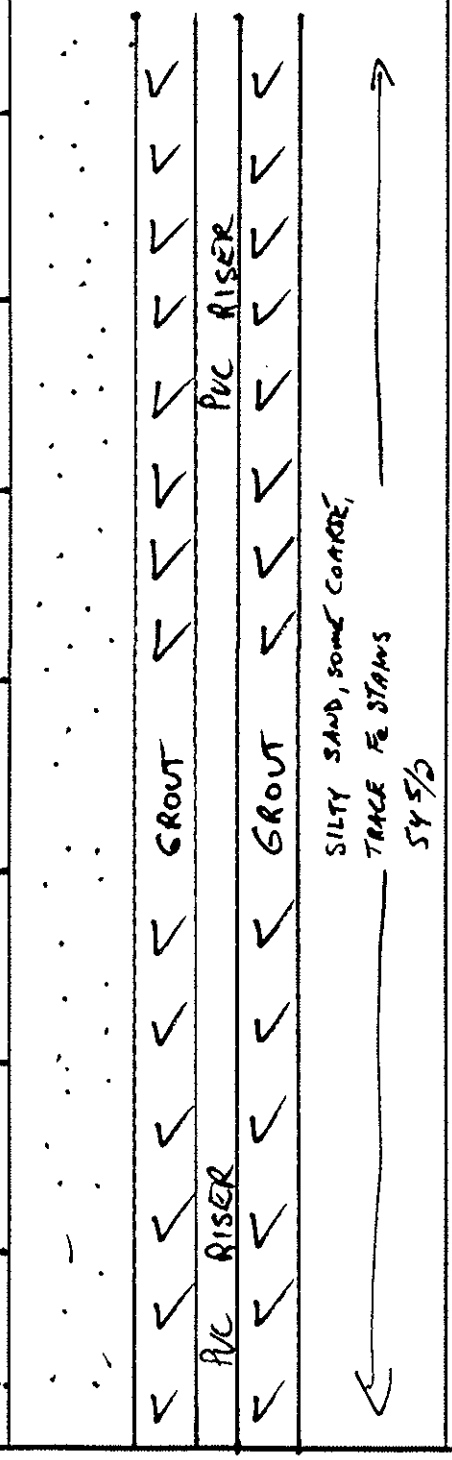
Page 3 of 7

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-11A
Client EPA-REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
40.0				
41.0	S-22			
42.0				
43.0	S-23	0 - H.S.		
44.0	FPW - PCB 272	0 - H.S.		
45.0	S-24			
46.0		0 - H.S.		
47.0	S-25			
48.0		0 - H.S.		
49.0	S-26			
50.0	FPW - PCB 273	1 - H.S.		
51.0	S-27			
52.0		0 - H.S.		
53.0	S-28			
54.0	FPW - PCB DUP 274 + 275	5 DAY HS. 11.1		
55.0				

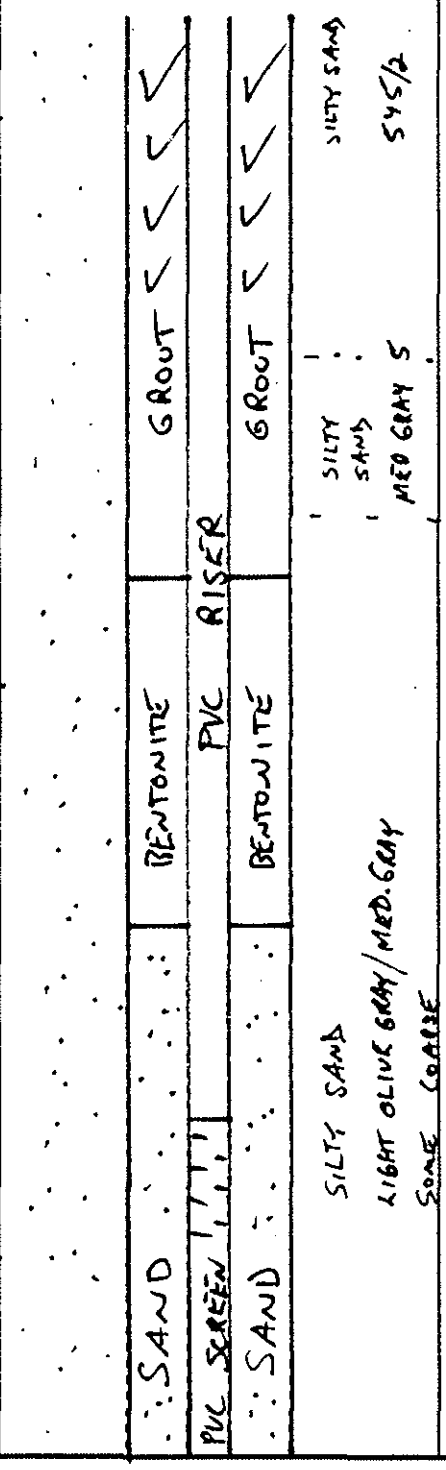


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-11A
Client EPA - REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
56.0	S-29			
		5 DAY H.S. 12.9		
57.0	S-30			
58.0		5 DAY H.S. 12		
59.0	S-31			
60.0	FPW-PCB 276	5 DAY H.S. 8.4		
61.0	S-32			
62.0		2 DAY H.S. 7.5		
63.0	S-33			
64.0		2 DAY H.S. 4.8		
65.0	S-34			
66.0	FPW-PCB 277	2 DAY H.S. 7.8		
67.0	S-35			
68.0		2 DAY H.S. 4.9		
69.0	S-36			
70		2 DAY H.S. 3.5		



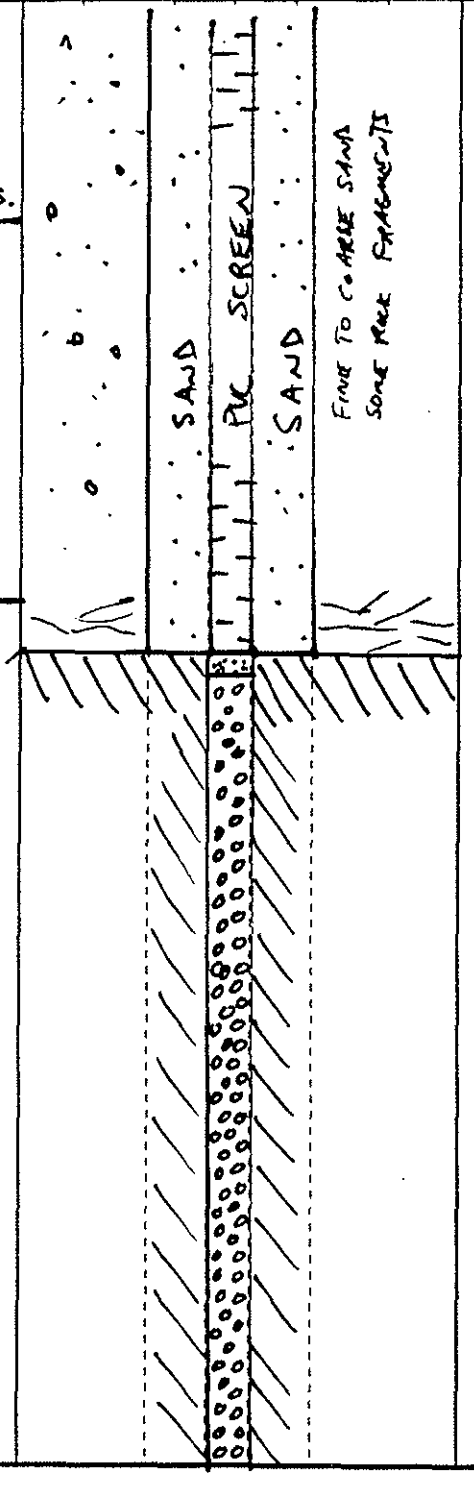
71.

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-11 A
Client EPA-REGION I
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram	Notes and Comments
71.0	S-37			
72.0	FPW-PCB			
73.0	278	8.4- H.S.		
	S-38			
74.0				
75.0	FPW-CLP			
76.0	280	5.7 H.S.		
77.0				WEATHERED BEDROCK
78.0				BEGINNING OF CORE RUN @ 78'
79.0				
80.0				
81.0				
82.0				
83.0				
84.0				
85.0				
86.0				

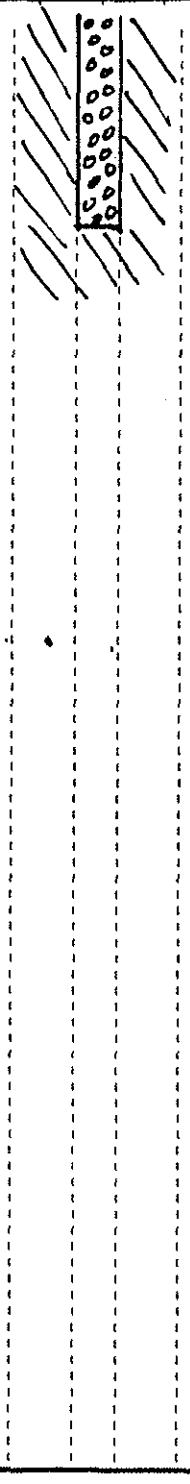


Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-11 A
Client EPA-REGION 1
Project FLETCHER
Case No. 62360-03

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
86.0				
87.0				
88.0				E.O.B. @ 88.0'



Arthur D Little

Monitoring Well Design

Boring No.	MW-11B
Client	EPA-REGION 1
Project	FLETCHER
Case No.	62360-03

Date Start 12/9/91	Date Complete 12/12/91	Hole Diameter 8"	Casing Size N.A.

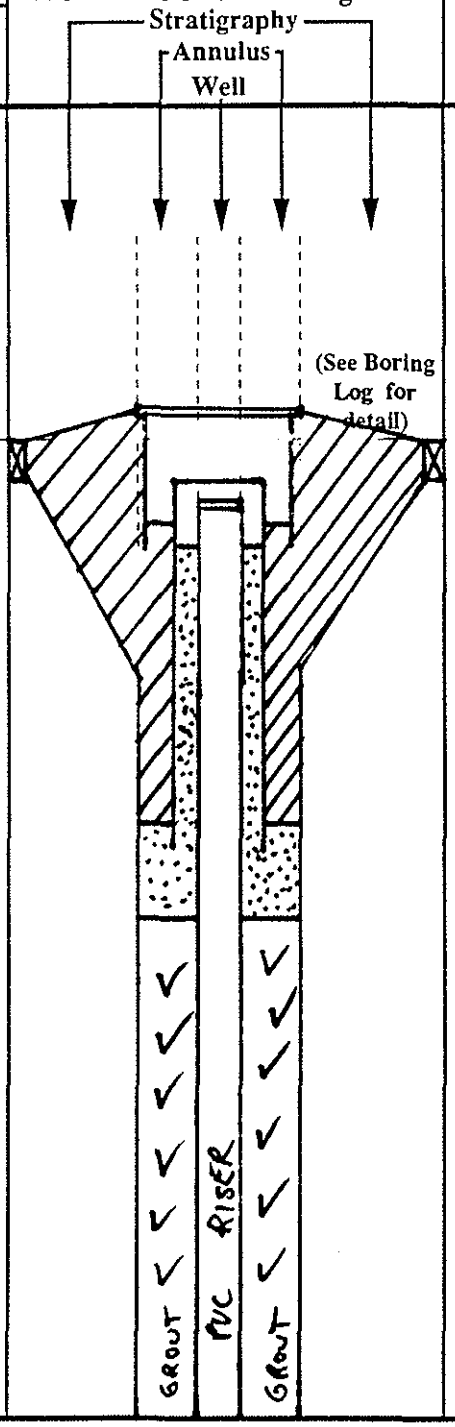
Contractor CON-TEC	Geologist K. ELLINGWOOD
Drill Method H.S.A.	Boring Depth 35.5'
Type Of Rig DIEDRICH D-50	Grout method 'VOLCLAY' GROUT TREMMIE FROM 'CHEM-GROUT' MIXER
Datum Double Notch on PVC RISER	Development Method To Be Developed

Notes

Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)
0.0		
1.0		
2.0		
3.0		
4.0		
5.0		
6.0		
7.0		
8.0		
9.0		
10.0		

REFER TO MW-11A FOR SAMPLES + GEOLOGIC DESCRIPTION

Well Construction Diagram



Construction Specifications

Elevation Top Of Casing _____

Elevation Top Of Riser Pipe 269.01'

Elevation Ground Surface 269.75'

(surveyed elevations)
(depth from ground surface)

Type of Surface Casing STEEL STAND PIPE CAST MANHOLE

I.D. Surface Casing 5" LOCKING STEEL, 12" MANHOLE

Type Of Riser Pipe SCHEDULE 40 PVC

I.D. Riser Pipe 2"

Diameter Of Borehole 8"

Type Of Backfill 'VOLCLAY' GROUT SLURRY

Type Of Seal BENTONITE HYDRATED

Depth To Top Of Seal 20'

Type Of Sand Pack OTTAWA SAND

Depth To Top Of Sand Pack 23'

Type Of Screen SCHEDULE 40 PVC

Slot Size .010"

I.D. Screen 2"

Screened Interval 35.25-25.25'

Depth To Bottom Of Well 35.25'

Depth To Bottom Of Borehole 35.5'

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-113
Client EPA - REGION 1
Project FLETCHER
Case No. 62360-03

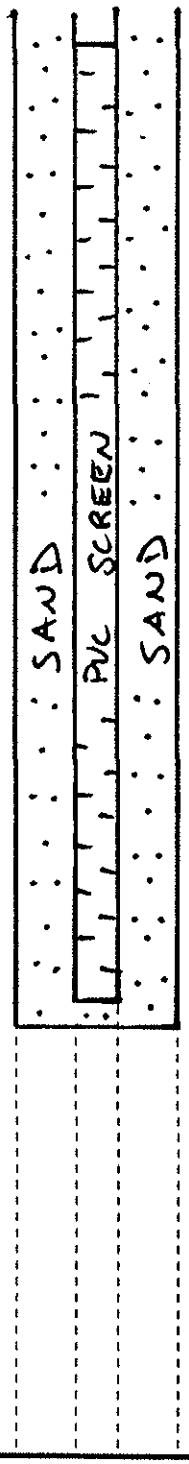
Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
10.0			GROUT / PVC RISER / GROUT	
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0			BENTONITE / PVC RISER / BENTONITE	
21.0				
22.0				
23.0			SAND	
24.0				
25.0				

Arthur D Little

Monitoring Well Design
(Continuation Page)

Boring No. MW-11B
Client EPA-REGION 1
Project FLETCHER
Case No. 62BGB-03

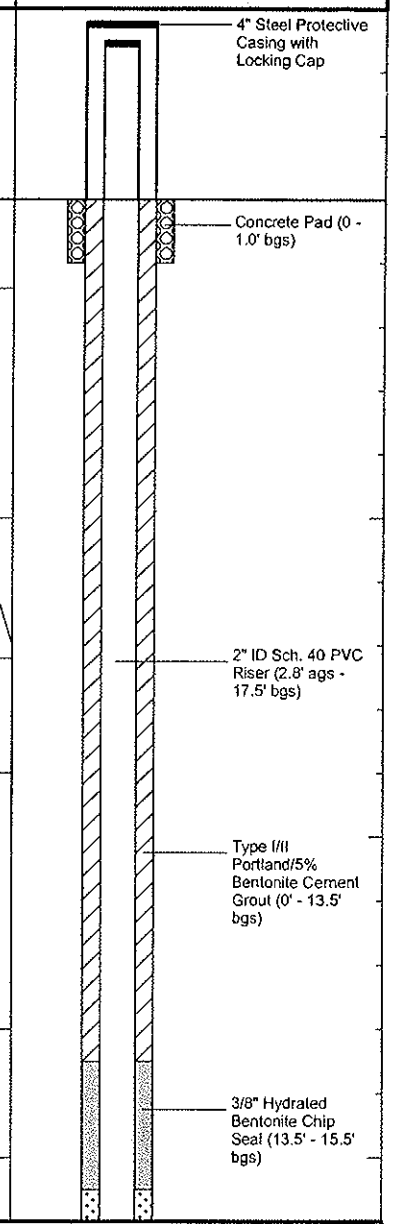
Scale in Feet	SAMPLE Type and number	SAMPLE Total Organics (ppm)	Well Construction Diagram (Stratigraphy, Annulus, Well)	Notes and Comments
25.0				
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				



Date Start/Finish: 1/22/04 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Drive and Wash/Mud Rotary **Bit Size:** 5-7/8" **Auger Size:** 4.25" ID **Rig Type:** Dietrich D-120 ATV Rig. **Sampling Method:** 2" OD x 2' **Core Size:** NA **Casing Size:** 6.00" Flush Joint	**Northing:** 121635.3 **Easting:** 987457.5 **Casing Elevation:** 266.6' **Borehole Depth:** 23' below grade **Surface Elevation:** 263.6' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-23A **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	265								
0		1	0-1	0.6	45 120/4"	Ref	2.01		Dark gray fine SAND and SILT, trace fine to medium Gravel, frozen.
		2	1-3	1.3	43 13 2 2	15	0.27		Light gray fine to medium SAND, little coarse Sand, trace fine to medium subrounded to subangular Gravel and Silt, loose, damp.
	260	3	3-5	0.2	8 6 4 4	10	0.23		
5		4	5-7	2.0	6 4 7 7	11	0.39		Dark brown highly degraded natural organic SILT and fine Sand, damp. Light gray-brown fine to medium SAND, trace coarse Sand, fine to medium subrounded Gravel and Silt, moist.
		5	7-9	0.8	7 9 23 45	32	0.90		Dark orange-brown fine SAND, trace medium to coarse Sand, trace fine to medium subrounded Gravel and dark brown highly degraded natural Organics, moist.
	255								
10		6	9-11	1.3	73 78 65 54	143	1.34		Dark orange-brown fine to medium SAND, little coarse Sand, trace fine to medium subrounded to subangular Gravel and Silt, very dense, wet.
		7	11-13	1.2	85 57 53 59	110	1.46		
	250	8	13-15	0.6	32 18 15 15	33	2.26		Gray-brown fine to medium SAND, trace coarse Sand, fine to medium subrounded to subangular Gravel and Silt, saturated.
15		9	15-17	0.8	22 11	25	1.59		Gray-brown fine to medium SAND, trace coarse Sand and Silt, saturated.

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal.

Refusal at 19' bgs on first attept on 1/21/04. Due to lack of recovery and excessive outwash materials at the proposed screened interval for MW-23A, the first MW-23A pilot soil boring was abandoned. To aid in the removal of more coarse soil cuttings during the second attempt to install MW-23A, bentonite gel was added to the drilling water for use with drive and wash techniques.

Client:
General Electric Company

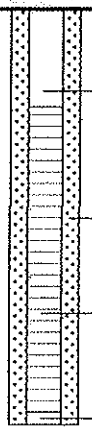
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-23A

Borehole Depth: 23' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
		9	15-17	0.8	14 16	25	1.59		Gray-brown fine to medium SAND, trace coarse Sand and Silt, saturated.
		10	17-19	0.4	11 7 7 7	14	NA		Brass liner sample collected from 17' - 19' bgs.
20	245	11	19-21	0.2	9 7 5 8	12	NA		Gray-brown fine to medium SAND, little coarse Sand and fine Gravel, trace Silt, saturated. Brass liner sample collected.
		12	21-23	0.7	11 8 6 7	14	NA		Gray-brown fine to coarse SAND, trace fine to medium subrounded to subangular Gravel and Silt, saturated.
25	240								
30	235								
35	230								

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

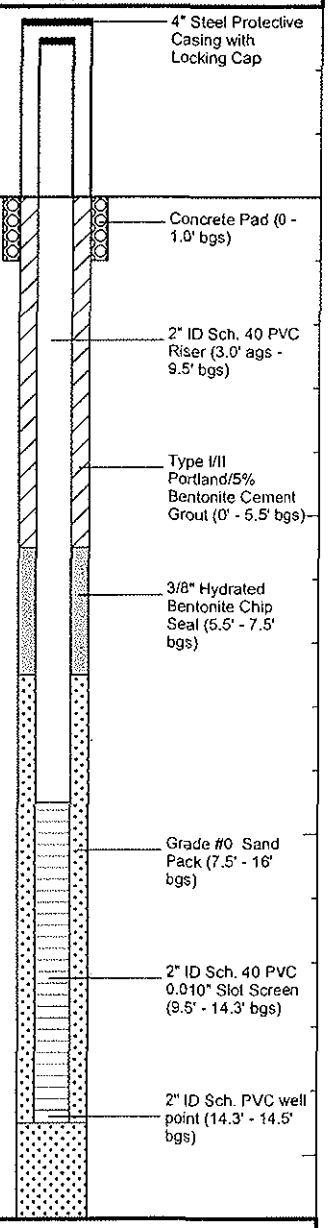
Remarks: bgs = below ground surface; NA = Not Applicable/Available; Ref = Refusal.

Refusal at 19' bgs on first attept on 1/21/04. Due to lack of recovery and excessive outwash materials at the proposed screened interval for MW-23A, the first MW-23A pilot soil boring was abandoned. To aid in the removal of more coarse soil cuttings during the second attempt to install MW-23A, bentonite gel was added to the drilling water for use with drive and wash techniques.

Date Start/Finish: 1/26/04 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Drive and Wash **Bit Size:** 5 7/8" **Auger Size:** 4.25" ID **Rig Type:** Dietrich D-120 ATV Rig **Sampling Method:** 2" OD x 2' **Core Size:** NA **Casing Size:** 6.00" Flush Joint	**Northing:** 121634.8 **Easting:** 987464.4 **Casing Elevation:** 266.49' **Borehole Depth:** 23' below grade **Surface Elevation:** 263.6' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-23B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	265								
0		1	0-1	0.7	31 160	160	0.40		Dark gray-black fine SAND and SILT, trace medium to coarse Sand and coal, frozen.
		2	1-3	1.0	27 147 37 25	184	0.51		*Light gray-brown fine to medium SAND, little coarse Sand, trace fine to medium* subrounded to subangular Gravel and Silt, damp.
	260	3	3-5	1.1	27 16 7 7	23	0.33		Dark orange-brown fine to medium SAND, little to coarse Sand, trace fine to medium subrounded to subangular Gravel and Silt, damp.
5		4	5-7	0.6	4 4 5 7	9	0.62		Dark brown highly degraded natural organic SILT, trace fine Sand, damp.
	255	5	7-9	0.6	9 7 8 7	15	0.62		Dark orange-brown fine SAND, trace medium to coarse Sand, trace fine to medium subrounded Gravel and dark brown highly degraded natural organic Silt, moist.
10		6	9-11	1.0	8 18 81 97	99	NA		Brass liner sample collected.
		7	11-13	0.8	78 89 84 91	173	NA		Brass liner sample collected.
	250	8	13-15	0.5	16 19 25 41	44	NA		Brass liner sample collected.
15		9	15-17	1.2	23 25	42	2.60		Gray-brown fine to medium SAND, little coarse Sand, trace fine to medium subrounded Gravel and Silt, saturated.

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-23B

Borehole Depth: 23' below grade

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	9	15-17	1.2	17 19	42	2.60		Gray-brown fine to medium SAND, little coarse Sand, trace fine to medium subrounded Gravel and Silt, saturated.	
245	10	17-19	0.5	11 8 9 12	17	NA		Brass liner sample collected.	3/8" Hydrated Bentonite Chip Seal (16' - 23' bgs)
20	11	19-21	1.0	7 9 18 50	27	NA		Brass liner sample collected.	
	12	21-23	0.5	15 35 67 72	102	NA		Brass liner sample collected.	
240									
25									
235									
30									
230									
35									

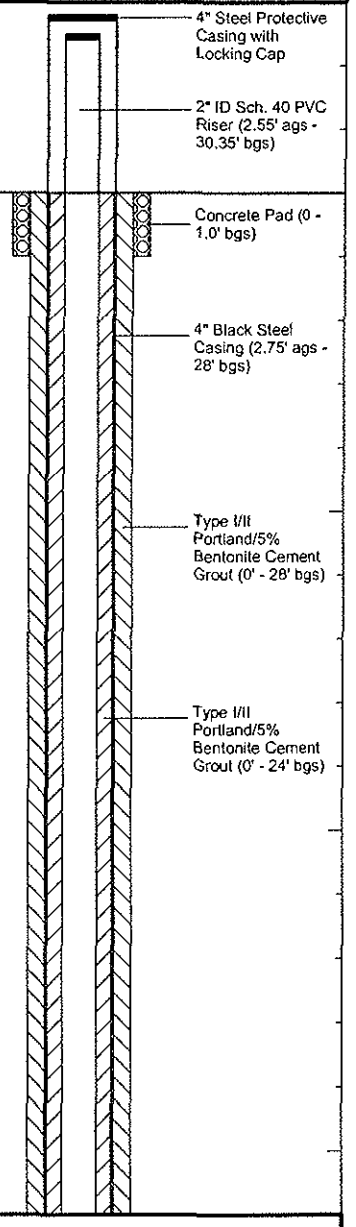
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/20/04, 1/23/04, 1/29 - 30/04 **Drilling Company:** GeoSearch **Driller's Name:** Ron Kuhn **Drilling Method:** Drive and Wash/Rock Core **Bit Size:** 5-7/8" **Auger Size:** 4.25" ID **Rig Type:** Diedrich D-120 ATV Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** HV (HQ) **Casing Size:** 6.00" Flush Joint	**Northing:** 121634.8 **Easting:** 987533.2 **Casing Elevation:** 263.9' **Borehole Depth:** 43.5' below grade **Surface Elevation:** 266.1' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-23C **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
0		1	0-1	1.0	30 96	96	0.62		Dark gray fine SAND and SILT, trace fine Gravel, frozen.
	265	2	1-3	0.9	52 19 17 19	36	0.30		Light gray fine to medium SAND, trace coarse Sand, trace fine Gravel, trace Silt, damp.
		3	3-5	0.6	4 3 3 3	6	NA		Orange-brown fine to medium SAND, trace coarse Sand, trace fine Gravel, damp.
5	260	4	5-7	1.3	3 4 4 6	8	0.52		Dark brown highly degraded natural organic SILT,damp.
		5	7-9	0.8	9 9 10 8	19	230 (--)		Light gray fine to medium SAND, trace coarse Sand, trace Silt, loose, damp.
10	255	6	9-11	1.1	11 26 33 36	61	1477 (--)		Orange-brown fine to medium SAND, little coarse Sand, trace subrounded fine Gravel, trace Silt, wet.
		7	11-13	0.8	32 25 56 27	81	2.60		Trace medium subrounded Gravel, saturated below 11.1' bgs.
15		8	13-15	0.6	28 30 32 38	62	1.94		Gray-brown fine to medium SAND, little coarse Sand, trace fine to medium subrounded to rounded Gravel, trace Silt, saturated.
		9	15-17	0.3	5 12	30	1.67		

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; (--) = Negative shake test.

Client:
General Electric Company

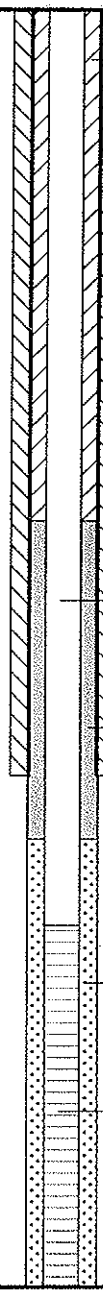
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-23C

Borehole Depth: 43.5' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	250	9	15-17	0.3	18 18	30	5.32		Gray-brown fine to medium SAND, little coarse Sand, trace fine to medium subrounded to rounded Gravel, trace Silt, saturated.
		10	17-19	0.7	19 15 17 24	32	NA		
20		11	19-21	0.4	14 14 11 29	25	6.84		Light gray fine to coarse SAND, little fine to medium subangular to subrounded Granitic Gravel, trace Silt, saturated.
	245	12	21-23	0.5	21 28 54 18	82	NA		Light gray-brown fine SAND, trace medium to coarse Sand, trace fine to medium subrounded to subangular Granitic Gravel, trace Silt, saturated.
25	240								5-7/8" Rollerbit from 23' - 28.5' bgs.
30	235	1	28.5-33.5	4.6	Min/Ft. 4:00 4:00 4:00 4:00 4:00	RQD 77	NA		Dark gray fine "salt and peppered" Milford GRANITE, ~30° foliation at 29' and 29.5' bgs. Horizontal fracture at 28.7' bgs.
									Coarse grained Milford GRANITE. Horizontal fractures at 31.3' and 31.5' bgs; 30° fracture with foliation at 31.7' bgs; Irregular fracture at 32.2' bgs.
									Dark gray fine grained Milford GRANITE. 20° fracture at 32.7' bgs.
35		2	33.5-38.5	4.9	3:00 2:00	98	NA		Dark gray fine grained Milford GRANITE, little to no weathering. Irregular/horizontal fracture at 35.4' bgs.

Well/Boring Construction



- Type I/II Portland/5% Bentonite Cement Grout (0' - 24' bgs)
- 4" Black Steel Casing (2.75' ags - 28' bgs)
- Type I/II Portland/5% Bentonite Cement Grout (0' - 28' bgs)
- 2" ID Sch. 40 PVC Riser (2.55' ags - 30.35' bgs)
- 3/8" Hydrated Bentonite Chip Seal (24' - 29' bgs)
- Grade #0 Morie Sand Pack (29' - 40.15' bgs)
- 2" ID Sch. 40 PVC 0.010" Slot Screen (30.35' - 40.15' bgs)

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; (--) = Negative shake test.

Client:
General Electric Company

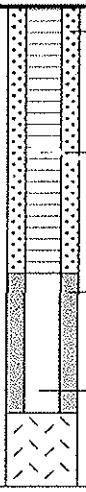
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-23C

Borehole Depth: 43.5' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	230	2	33.5-38.5	4.9	3:00 4:00 3:00	98	NA		Dark gray fine grained Milford GRANITE, little to no weathering. Horizontal fracture at 36.87' bgs; Mechanical horizontal fracture at 38.5' bgs.
40	225	3	38.5-43.5	4.3	5:00 5:00 6:00 5:00 7:00	87	NA		Dark gray fine Milford GRANITE, little to no weathering. Horizontal fractures at 40.5' and 42.3' bgs.
45	220								
50	215								
55									

Well/Boring Construction



- Grade #0 Morie Sand Pack (29' - 40.15' bgs)
- 2" ID Sch. 40 PVC 0.010" Slot Screen (30.35' - 40.15' bgs)
- Type I/II Portland/5% Bentonite Grout (40.15' - 42.35' bgs)
- 2" ID Sch. PVC Unslotted portion of Screen and Sump (40.15' - 42.35' bgs)

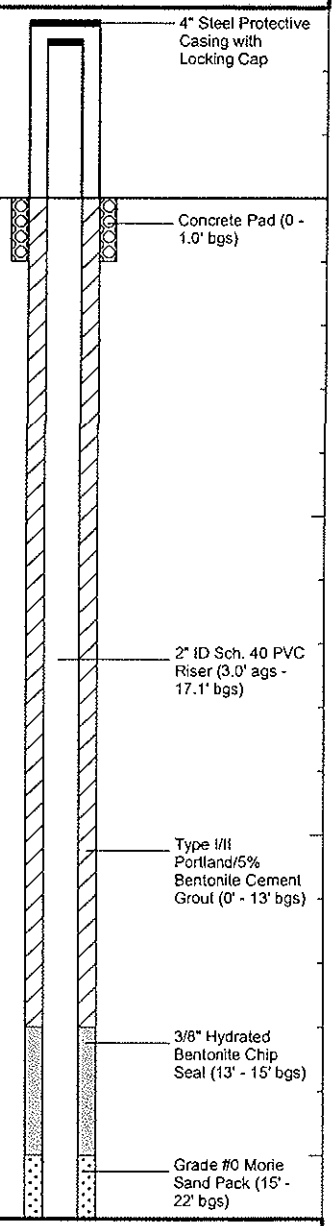
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; (--) = Negative shake test.

Date Start/Finish: 1/6/04 - 1/7/04 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Drive and Wash **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** Diedrich D-120 ATV Rig **Sampling Method:** 2" OD x 2' **Core Size:** NA **Casing Size:** 6.00" Flush Joint	**Northing:** 121629.4 **Easting:** 987535.8 **Casing Elevation:** 263.8' **Borehole Depth:** 23' below grade **Surface Elevation:** 266.52' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-24A **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
0		1	0-1	0.7	10 12	12	0.0		Dark brown fine SAND, little Silt, trace medium to coarse Sand, trace fine to medium Gravel, loose, damp. Trace Brick and Coal, damp a 1.0' bgs.
	265	2	1-3	1.5	6 6 7 10	13	1.23		
		3	3-5	0.6	3 5 4 7	9	0.54		
5		4	5-7	1.0	5 7 9 4	16	0.79		Gray-brown fine to medium SAND, trace coarse Sand, trace Silt, loose, damp. Trace fine to medium Gravel, loose, damp below 7.0' bgs.
	260	5	7-9	1.0	7 7 8 9	15	0.86		Dark brown highly degraded natural organic SILT, damp.
10		6	9-11	1.5	25 34 26 30	60	NA		Brass Liner Sample collected.
	255	7	11-13	1.2	25 27 22 31	49	102 (--)		Orange-brown fine to medium SAND, trace coarse Sand, trace fine to medium Gravel, trace Silt, saturated.
		8	13-15	0.5	7 13 20 13	33	3.23		
15		9	15-17	0.6	14 23	54	3.97		

Well/Boring Construction



Remarks: bgs = below ground surface; NA = Not Applicable/Available; (--) = Negative shake test.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Client:
General Electric Company

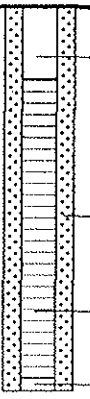
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-24A

Borehole Depth: 23' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	250	9	15-17	0.6	31 58	54	3.97		Orange-brown fine to medium SAND, trace coarse Sand, trace fine to medium Gravel, trace Silt, saturated.
		10	17-19	1.0	29 25 17 21	42	NA		Brass Liner Sample collected.
20		11	19-21	0.8	28 43 61 32	104	NA		Brass Liner Sample collected.
	245	12	21-23	0.8	36 100/4" - -	NA	NA		Brass Liner Sample collected.
25									
	240								
30									
	235								
35									

Well/Boring Construction



- 2" ID Sch. 40 PVC Riser (3.0' ags - 17.1' bgs)
- Grade #0 Morie Sand Pack (15' - 22' bgs)
- 2" ID Sch. 40 PVC 0.010" Slot Screen (17.1' - 21.8' bgs)
- 2" ID Sch. PVC Unslotted portion of Screen and Sump (21.8' - 22' bgs)

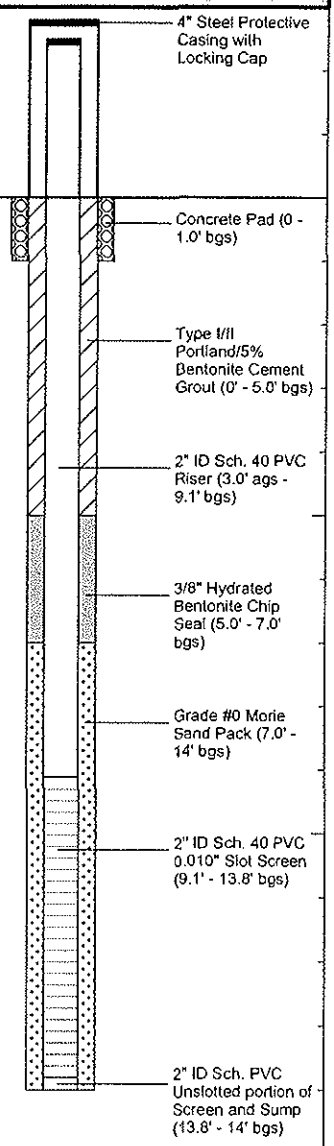
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; (--) = Negative shake test.

Date Start/Finish: 1/7/04 - 1/8/04 **Drilling Company:** GeoSearch **Driller's Name:** Joe Keenan **Drilling Method:** Drive and Wash **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** Diedrich D-120 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** NA **Casing Size:** 6.00" Flush Joint	**Northing:** 121626.2 **Easting:** 987540 **Casing Elevation:** 266.73' **Borehole Depth:** 15' below grade **Surface Elevation:** 264.2' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-24B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	265								
0		1	0-1	0.6	6 11	11	0.2		Dark brown to black SILT, little fine Sand, trace medium to coarse Sand, trace fine to medium Gravel, trace Coal, damp. Trace Glass, damp below 1.0' bgs.
		2	1-3	1.6	8 7 5 5	12	0.12		
	260	3	3-5	1.3	5 3 3 3	6	27.93		Light brown fine to medium SAND, trace coarse Sand, trace fine to medium subrounded Gravel, trace Silt, damp.
5		4	5-7	0.7	3 5 3 4	8	12.22		
		5	7-9	0.9	3 3 5 7	8	15.56		Light brown fine to coarse SAND, trace fine to medium subangular to subrounded Gravel, trace Silt, loose, damp.
	255	6	9-11	0.5	10 16 20 26	36	NA		Brass Liner Sample collected.
10		7	11-13	1.0	28 25 20 22	45	NA		Brass Liner Sample collected.
	250	8	13-15	1.0	18 25 18 18	43	NA		Brass Liner Sample collected.
15									

Well/Boring Construction

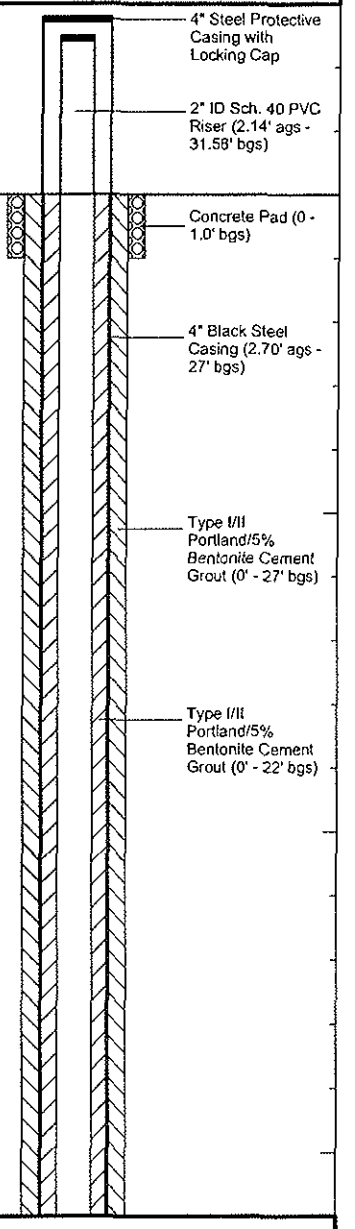


BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 1/5/04, 1/12/04, 1/29 - 30/04 **Drilling Company:** *GeoSearch* **Driller's Name:** Joe Keenan **Drilling Method:** Drive and Wash/Rock Core **Bit Size:** 5-7/8" **Auger Size:** 4.25" ID **Rig Type:** Diedrich D-120 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** HV (HQ) **Casing Size:** 6.00" Flush Joint	**Northing:** 121625.5 **Easting:** 987533.2 **Casing Elevation:** 266.10 **Borehole Depth:** 43.6' below grade **Surface Elevation:** 263.90 **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-24C **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	265								
0		1	0-1	0.8	4 11	11	11.38		Dark brown to black SILT, trace fine to coarse Sand, fine Gravel, Wood, and Coal, damp. [FILL]
		2	1-3	0.0	11 4 7 5	11	NA		No Recovery. Dark brown to black SILT, trace fine to coarse Sand, fine Gravel, Wood, and Coal, damp. [FILL]
	260	3	3-5	0.6	5 5 3 3	8	48.36		Gray-brown fine SAND, trace medium to coarse Sand, fine Gravel, and Silt, loose, damp.
5		4	5-7	1.0	3 3 3 3	6	114 (--)		Gray-brown fine to medium SAND, trace coarse Sand and fine to medium Gravel, loose, damp.
		5	7-9	1.0	3 3 3 6	6	125 (--)		Dark brown highly degraded natural organic SILT, damp. Gray-brown fine to medium SAND, trace coarse Sand and fine to medium Gravel, loose, damp.
	255								
10		6	9-11	1.6	7 23 46 27	69	286 (--)		Orange-brown fine to medium SAND, little coarse Sand, trace fine to medium Gravel, loose, moist to wet.
		7	11-13	1.3	17 20 25 21	45	352 (--)		Orange-brown fine to coarse SAND, trace fine to medium Gravel and Silt, saturated.
	250	8	13-15	0.8	6 14 18 18	32	63.57 (--)		
15		9	15-17	1.0	15 15	32	302 (--)		Gray-brown fine to medium SAND, trace coarse Sand and fine to medium Gravel, saturated.



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; (--) = Negative shake test.

Client:
General Electric Company

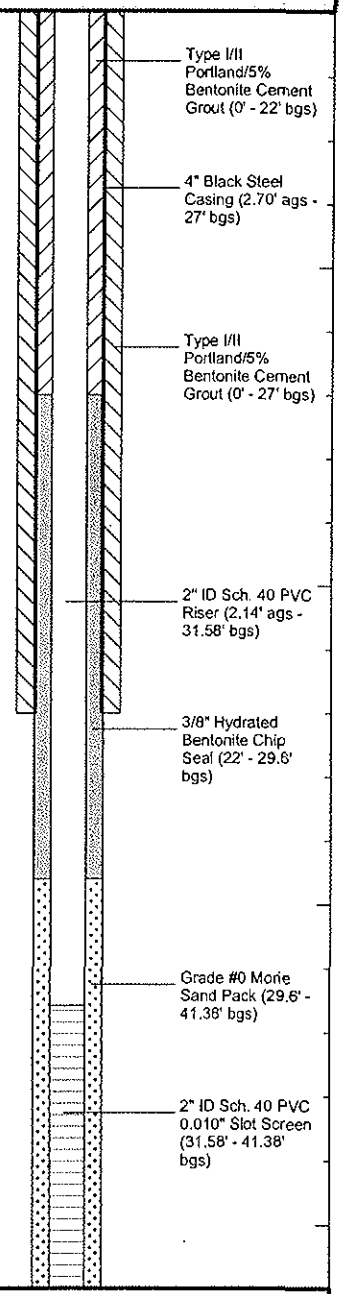
Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-24C

Borehole Depth: 43.6' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
		9	15-17	1.0	17 16	32	302 (--)		Gray-brown fine to medium SAND, trace coarse Sand and fine to medium Gravel, saturated.
		10	17-19	0.0	6 10 6 17	16	NA		No Recovery, 6" of wash.
20	245	11	19-21	0.5	7 21 37 66	58	67.91 (--)		Gray fine to medium SAND, little coarse Sand, trace fine to medium Gravel (pulverized Granite) and Silt, saturated.
		12	21-23	1.1	21 37 47 72	84	36.43		Gray fine to coarse SAND, little fine to medium Gravel (pulverized Granite), trace Silt, saturated. Casing refusal at 23' bgs.
25	240								5-7/8" Rollerbit from 23' - 28' bgs.
					Min/Ft.	RQD			Light gray coarse-grained granitic GNEISS. 20° fracture at 28.2' bgs.
30	235	1	28-33	5.0	5:00 5:00 4:00 4:00 4:00	95	NA		Dark gray fine-grained Milford GRANITE . Horizontal fracture at 28.8' bgs; 20° fracture at 29.8' bgs.
35	230	2	33-38	5.0	3:00 3:00 3:00	95	NA		Dark gray fine-grained Milford GRANITE.

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; (--) = Negative shake test.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-24C

Borehole Depth: 43.6' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		2	33-38	5.0	4:00 3:00	95	NA		Dark gray fine-grained Milford GRANITE.	Grade #0 Morie Sand Pack (29.6' - 41.38' bgs)
	225	3	38-43	5.0	3:00 3:00 3:00 3:00 3:00	36	NA		Dark gray fine-grained Milford GRANITE, minor horizontal foliation from 42.7' - 43' bgs. Horizontal fractures with green secondary mineralization at 40' and 40.3' bgs; 75° high angle fracture with green secondary mineralization at 41.2' bgs; horizontal fracture at 41.8' bgs; 80° high angle fracture with green secondary mineralization at 42.8' bgs.	2" ... Sch. 40 PVC 0.010" Slot Screen (31.58' - 41.38' bgs) Type I/II Portland/5% Bentonite Cement Grout (41.38' - 43.58' bgs) 2" ID Sch. PVC Sump (41.38' - 43.58' bgs)
40										
	220									
45										
	215									
50										
	210									
55										

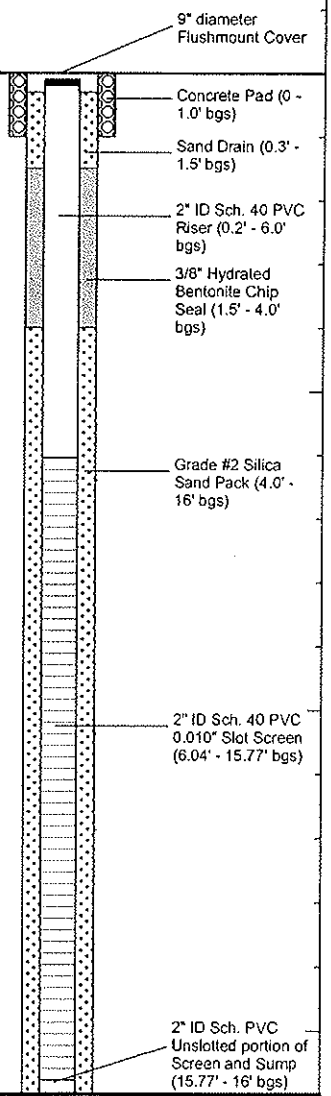
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; (--) = Negative shake test.

Date Start/Finish: 12/12/03 **Drilling Company:** GeoSearch **Driller's Name:** Ron Kuhn **Drilling Method:** Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4.25" ID **Rig Type:** CME-75 Truck-Mounted Rig **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** NA **Casing Size:** NA	**Northing:** 121111.6 **Easting:** 987558.2 **Casing Elevation:** 262.52' **Borehole Depth:** 16' below grade **Surface Elevation:** 262.86' **Geologist:** Ron Kuhn	**Well/Boring ID:** MW-25B **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	265								
0									
		1	0-2	0.5	3 2 2 2	4	0.06		Dark brown fine SAND and SILT, trace Roots, damp.
	260	2	2-4	0.2	2 1 1 2	2	0.08		Dark brown fine to medium SAND, trace coarse Sand, trace Silt, damp. Trace Coal and Cinders, moist at 4.0' bgs.
5		3	4-6	1.0	2 3 5 6	8	0.19		Light brown very fine SAND, trace Silt, moist.
		4	6-8	1.4	5 5 5 4	10	0.09		
	255	5	8-10	1.8	5 5 6 7	11	0.11		Grading to light gray-brown fine to medium Sand at 8.0' bgs. Wet to saturated at 9.0' bgs. Trace Silt at 9.5' bgs.
10		6	10-12	1.5	4 4 6 7	10	0.20		Gray-brown fine to coarse SAND, trace Silt, saturated.
	250	7	12-14	2.0	4 3 3 4	6	0.30		Trace fine Gravel at 12' bgs.
15		8	14-16	2.0	1 1 2 2	3	0.06		

Well/Boring Construction



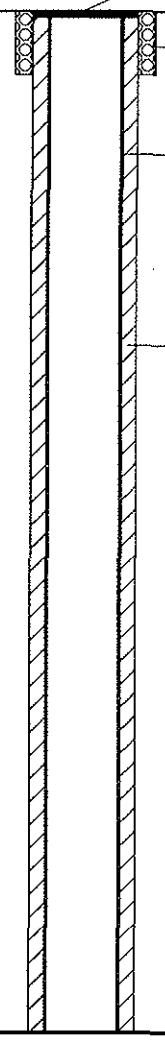
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available.

Date Start/Finish: 12/14/03 , 12/17/03 **Drilling Company:** GeoSearch **Driller's Name:** P. Goodale/D.Crawford **Drilling Method:** HSA/Air Hammer/Rock Core **Bit Size:** 5-7/8" **Auger Size:** 6.25" ID **Rig Type:** CME-75 Truck-Mounted/Mobile B-59 **Sampling Method:** 2" OD x 2' Split Spoon **Core Size:** HV (HQ) **Casing Size:** NA	**Northing:** 121107.2 **Easting:** 987563.8 **Casing Elevation:** 262.46' **Borehole Depth:** 40' below grade ***Surface Elevation:*** 263' **Geologist:** Ron Kuhn/Leanne Roulier	**Well/Boring ID:** MW-25C **Client:** General Electric Company **Location:** Fletcher's Paint Works and Storage Facility Superfund Site Milford, New Hampshire

DEPTH	ELEVATION	Sample / Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	265								
0			0-2	0.5	3 2 2 2	4	0.06		Dark brown fine SAND and SILT, trace roots, damp.
	260		2-4	0.2	2 1 1 2	2	0.08		Dark brown fine to medium SAND, trace coarse Sand and Silt, damp.
5			4-6	1.0	2 3 5 6	8	0.19		Light brown very fine SAND, trace Silt, moist.
		1	6-8	1.5	2 6 6 7	12	NA		Brass Liner Sample collected.
	255		8-10	1.8	5 5 6 7	11	0.11		Light brown very fine SAND, trace Silt, moist.
10			10-12	1.5	4 4 6 7	10	0.20		Gray-brown fine to coarse SAND, trace Silt, saturated.
	250		12-14	2.0	4 3 3 4	6	0.30		Trace Gravel at 12' bgs.
15			14-16	2.0	1 1 2 2	3	0.06		

Well/Boring Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; HSA = Hollow Stem Auger.
Geologic descriptions and information from 0-16' bgs are from MW-25B.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-25C

Borehole Depth: 40' below grade

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description
	2	16-18	2.0	10 2 14 37	16	0.08		Gray-brown fine to coarse SAND, little fine Gravel, trace Silt, saturated.
245	3	18-20	1.0	18 37 21 14	58	0.15		Light gray-brown fine to coarse SAND, little medium to coarse Gravel (Pulverized Granite), trace Silt, saturated. [Weathered Rock]
20	4	20-22	0.8	9 89 60/0.1 -	NA	0.10		Auger refusal at 22' bgs.
240								5-7/8" Air Hammer from 22' - 25' bgs.
25	1	25-30	4.8	Min/ft. 4:10 5:00 6:30 6:00 6:20	RQD 96	0.0		Black and white fine-grained granitic GNEISS. 59° foliation from 25' - 26.7' bgs, becoming horizontal from 26.7' - 28.1' bgs, 60° foliation from 28.1' - 28.8' bgs. 59 - 61° fractures at 25.6', 26.3', and 27.5' bgs. 75° fracture at 28.1' bgs.
235								
30	2	30-35	4.8	8:10 6:15 6:00 3:10 7:00	96	0.0		Black and white granitic GNEISS. 80° foliation from 30' - 32' bgs and 63° from 32' - 33.2' bgs, reversing direction at 33.2' - 34.8' bgs to 59°. Trace iron staining from 30-31' bgs. Iron staining on fracture surface at 31.2' bgs.
230								
35	3	35-40	5.05	6:20	96	0.0		Light gray Milford GRANITE.

Well/Boring Construction

- 4" ID Steel Casing (0 - 25' bgs)
- Type I/II Portland/5% Bentonite Grout (0 - 25' bgs)
- Open Hole (25' - 40' bgs)

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; HSA = Hollow Stem Auger.
Geologic descriptions and information from 0-16' bgs are from MW-25B.

Client:
General Electric Company

Site Location:
Fletcher's Paint Works and
Storage Facility Superfund Site
Milford, New Hampshire

Well/Boring ID: MW-25C

Borehole Depth: 40' below grade

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows per 6 Inches/ Minutes per Foot	N - Value / RQD (%)	FID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
	225	3	35-40	5.05	9:40 9:30 10:00 11:30	96	0.0		Light gray Milford GRANITE, trace foliation from 36.7-40' bgs, no weathering.	Open Hole (25' - 40' bgs)
40										
	220									
45										
	215									
50										
	210									
55										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: bgs = below ground surface; NA = Not Applicable/Available; HSA = Hollow Stem Auger.
Geologic descriptions and information from 0-16' bgs are from MW-25B.

Draft for EPA Review

Borehole Geophysics Logging Report

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

LMR

Borehole Geophysics Logging Report
Wells MW-10C, MW-24C, & MW-25C
Fletcher Paint Site
Milford, New Hampshire

Prepared for
BLASLAND, BOUCK AND LEE, INC.
March 2004

GEOPHYSICAL
APPLICATIONS
INCORPORATED

March 25, 2004

Ms. Leanne Roulier, P.G.
BLASLAND, BOUCK AND LEE, INC.
6723 Towpath Road
Syracuse, NY 13214

Subject: Borehole Geophysics Logging Report
Wells MW-10C, MW-24C, & MW-25C
Fletcher Paint Site
Milford, New Hampshire

Dear Ms. Roulier:

This report describes borehole geophysical logging performed by Geophysical Applications at the above-noted site, to help identify and characterize hydraulically-active bedrock fractures encountered by three uncased bedrock boreholes.

The contracted logging suite included conventional logs (fluid temperature [FTemp], fluid resistivity [FRes], and caliper), acoustic televiewer (ABI), and heat-pulse flowmeter testing.

METHODS OF INVESTIGATION

Survey Control

All borehole logs were referenced to depths below ground surface. The geophysical logging winch contains an optical depth encoder, to maintain depth measurements accurate within approximately ± 0.2 feet throughout a borehole.

Borehole Geophysical Logging

A Mount Sopris model 4MXA digital logging winch was used with a Mount Sopris caliper/fluid-temperature/fluid-resistivity probe to obtain those conventional geophysical logs. These logs were recorded at 0.1-foot depth increments, as determined by the logging winch's digital depth encoder.

Fluid temperature and fluid resistivity logs were recorded during the first logging run, using a slow downward logging speed (approximately three to five feet per minute) to help identify subtle variations. A sub-assembly on the bottom of the caliper probe obtained these fluid measurements. Caliper logging was subsequently performed while pulling that probe upwards through the borehole at approximately 10 feet per minute.

Acoustic televiewer data were obtained using an Advanced Logic Technologies (ALT) model ABI40 acoustic televiewer probe, with the Mount Sopris winch and a Mount Sopris electronics console. ATV data were recorded at 0.01-foot depth intervals, with 288 pixels for each 360-degree scan around the borehole wall, while pulling that probe upwards through each hole.

125 Washington Street • Suite Two • Foxboro • MA • 02035
508-543-1388 • FAX 508-543-1019

Flowmeter data were recorded with a Mount Sopris heat-pulse flowmeter probe, at specific depths inferred from field plots of the caliper, FRes, and FTemp logs. Flowmeter data were initially recorded under ambient conditions. The same test depths were subsequently repeated while pumping the well at approximately 0.4 to 0.5 gallons per minute (gpm) with a Grundfos pump.

All geophysical log data were recorded on a laptop computer's hard drive, and copied to CD-ROM as a backup precaution.

Post-survey plot scales were adjusted to display as much detail as possible. All conventional logs and flowmeter data from a single well were merged onto one plot, to aid data correlation. Televiewer logs are presented on separate pages, at an enlarged scale, for clarity.

Equipment Decontamination Procedures

Decontamination consisted of an Alconox scrub and tap water rinse of the logging cable and probes between logging runs.

SURVEY LIMITATIONS

Measured geophysical-log depths are estimated to be accurate within ± 0.2 feet at this site, allowing for some slippage of the winches' depth-measurement wheels.

The caliper-probe's arms can measure borehole diameters up to approximately 16 inches. Caliper logs can most-confidently detect fractures that cross a borehole at moderate angles, e.g. less than approximately 70 degrees from horizontal. Caliper logs may not accurately detect near-vertical fractures.

The heat-pulse flowmeter probe can measure water flow rates between 0.02 and approximately 1.2 gallons per minute (gpm). Higher flow rates may be erroneously characterized as zero flow by this probe.

Hydraulically-active fracture zones were inferred by correlating numerous geophysical logs. These interpretations are a subjective judgment based upon available data.

Acoustic and optical televiewer probes rely on a three-component magnetometer to orient the recorded images with respect to magnetic north. These images become distorted when the magnetometers approach the bottom of steel casing, typically beginning approximately 1 to 2.5 feet below the steel. A short length of the unoriented televiewer images, rotated to match a distinctive feature on the borehole wall, overlay the magnetically distorted portions of televiewer log plots presented in this report. Down-dip azimuths of planar features inferred from televiewer logs a few feet below the steel casing are therefore approximate.

RESULTS

Geophysical log data and generalized log interpretations are described below. Specific interpretations regarding hydraulically-active fracture depths are listed in the "comments" column on each conventional log plot.

All geophysical logs described in this report are presented in Appendix A. Summary televiewer interpretations are provided in Appendix B. These televiewer-interpretation tables are Excel spreadsheets listing observed planar-feature depths, down-dip compass directions for each inferred feature (note that this is perpendicular to the strike direction), planar-feature dip angles with respect

to horizontal, and whether an inferred feature was judged to be relatively open (category 105), or less-open (category 100).

Caliper logs are presented in the left-most conventional log-plot column. Inflections to the right indicate borehole enlargements, for example where the drill bit passed through a fracture zone.

Fluid temperature (FTemp) and fluid resistivity (FRes) logs are presented in the next conventional log-plot column. Localized inflections or changes in slope of FTemp or FRes logs typically represent water entering or exiting a borehole. Large inflections at the very bottom of a borehole may represent only accumulated sediments with temperature or electrical properties that contrast with the water column.

Heat-pulse flowmeter data are presented on the caliper panel (ambient flow measurements) and on the FTemp/FRes panel (flow measurements while pumping). Shaded boxes to the left of centerline on either panel represent downwards water flow, with the box length indicating the flow magnitude in gpm. Shaded boxes to the right of a panel's centerline represent upwards water flow. Filled circles represent depths where "zero" flow was observed (i.e., flow less than the probe's minimum detectable rate, approximately 0.02 gpm). Flowmeter test depths were selected on-site using field plots of the caliper, fluid temperature, and fluid resistivity logs. Note that the plotted flow magnitudes are as reported by the vendor's data-acquisition software.

Acoustic televiewer data are presented via two columns (ABI40 "traveltime" and "amplitude"), where each column represents a cylindrical image sliced down the north edge and laid flat on the printed page. Magnetic north is at the left edge of each column, and the plots progress through east, south, west, and back to north at the right-hand edge.

Acoustic televiewer logs were evaluated using WellCAD's image-processing module, to measure planar-feature dip angles and down-dip azimuths. All down-dip azimuths are referenced to magnetic north. Measured planar-feature orientations are indicated by tadpole plots, where each filled-circle indicates a feature's dip angle from horizontal (plotted on a graph that ranges between 0 and 90 degrees from left to right). Each tadpole tail points in the down-dip azimuth, assuming magnetic north is straight up on the printed page. Note that the down-dip azimuth indicated by each tadpole tail is perpendicular to the fracture's strike direction. Also note that the tadpole orientations were corrected for each borehole's deviation from a vertical orientation.

Fractures represented on both the ATV travel-time and amplitude plots are denoted as being "open". Features represented only on the ATV amplitude plots are likely to have smaller apertures (or possibly represent foliation or mineral-filled joints), and are judged relatively "less open". Red tadpoles, and red sine-curve lines superimposed on the ATV plots, represent inferred "open" fractures. Black tadpoles, and black sine curves on the ATV plots, represent interpreted "less-open" features.

Televiewer interpretations are also summarized using rose diagrams, to indicate the predominant down-dip azimuth(s) of planar features observed crossing a borehole. These rose diagrams are presented with magnetic north oriented straight up on the printed page. The red rose diagram represents inferred open fractures, and the black rose diagram represents inferred less-open fractures (or possibly other planar features, e.g. foliation).

A stereoplot also summarizes the open and less-open feature orientations inferred from the televiewer logs. Each stereoplot was prepared using an equal-angle (Schmidt) projection on the southern hemisphere, with north oriented straight up on the printed page. The pole to a horizontal

feature would plot near the diagram's center, whereas a vertical feature's pole would plot at the diagram's outer edge.

Annotations on the conventional log plots describe interpreted hydraulically-active fracture depths, based on correlations between all of the available log data. Selected observations that may be of particular interest are described below.

MW-10C

This borehole's caliper log shows only minor diameter variations, as expected for a cored hole. Stepwise decreases near 38 and 45 feet deep may represent changes in drilling bits, or bit wear.

A large FRes inflection near 39 feet deep indicates a hydraulically active zone. Measurable water flow was not observed under ambient conditions; most inflow under pumping conditions originated between the casing bottom and 41 feet deep (probably near the 39-foot FRes anomaly). Additional, minor inflow while pumping was observed between 41 and 47 feet deep.

Only less-open planar features (black rose diagram and black tadpoles) were observed in this borehole, and overall the rock appears to be relatively hard and massive on the ABI log. The planar feature dipping approximately 23 degrees from horizontal (down towards the southwest) near 38 feet deep is the most noteworthy feature on the ABI log.

The stereoplot shows that most planar features interpreted in this borehole exhibit gentle dips down towards the south or southwest.

MW-24C

This borehole's caliper log shows irregularities immediately below the casing bottom, and little variation in diameter throughout the remainder of the borehole.

The FRes inflection near 38 to 39 feet deep is interpreted to represent a potential hydraulically active zone. This anomaly probably correlates with the top of a near-vertical, irregular fracture represented by a roughly elliptical shape on the ABI amplitude plot, between 39.7 feet and the bottom of the borehole.

Ambient flowmeter tests did not disclose measurable flow in this borehole. All detectable inflow while pumping originated between the casing bottom and 32 feet deep, probably from the open features (red tadpoles) that also produced the caliper variations near 28 to 29.5 feet deep.

Interpreted less-open features (black rose plot, tadpoles, and sine curves) dip primarily towards the northeast and east-southeast to southeast. All interpreted less-open features exhibited dip angles of less than 20 degrees from horizontal.

Three interpreted open features (red rose plot, tadpoles, and sine curves) dip down towards approximately due west, at angles between 5 and 32 degrees from horizontal.

The MW-24C stereoplot shows the less-open (black) features mostly grouped left of the diagram's center, and the open (red) poles to the right of the diagram's center, consistent with the down-dip orientations described above.

MW-25C

This borehole's caliper log shows only a small decrease in diameter below 35 feet deep. A FRes inflection near 34.5 feet deep suggests a hydraulically active zone at this depth.

Ambient water flow was not observed in this borehole. Pumping flowmeter tests showed measurable inflow only between the casing bottom and 31 feet deep, probably at the distinct FRes inflection near 29 feet deep.

Only less-open features (black rose diagram, tadpoles, and sine curves) were interpreted in this borehole. These features exhibited a range of down-dip azimuths, mostly towards the northeast, east, and southeast.

The stereoplot diagram shows that most of these interpreted feature poles plot left of the diagram's center, consistent with the roughly east down-dip orientations described above. The interpreted feature poles from this borehole exhibit down-dip azimuths between 10 and 50 degrees from horizontal; most of these dip angles are between 20 and 30 degrees.

* * * * *

We appreciate this opportunity to provide geophysical services, and we welcome questions concerning this report. Please call the undersigned at 508/543-1388 if we may provide additional information that would benefit BB&L's project.

Sincerely,

GEOPHYSICAL APPLICATIONS, INC.

M. Blackey

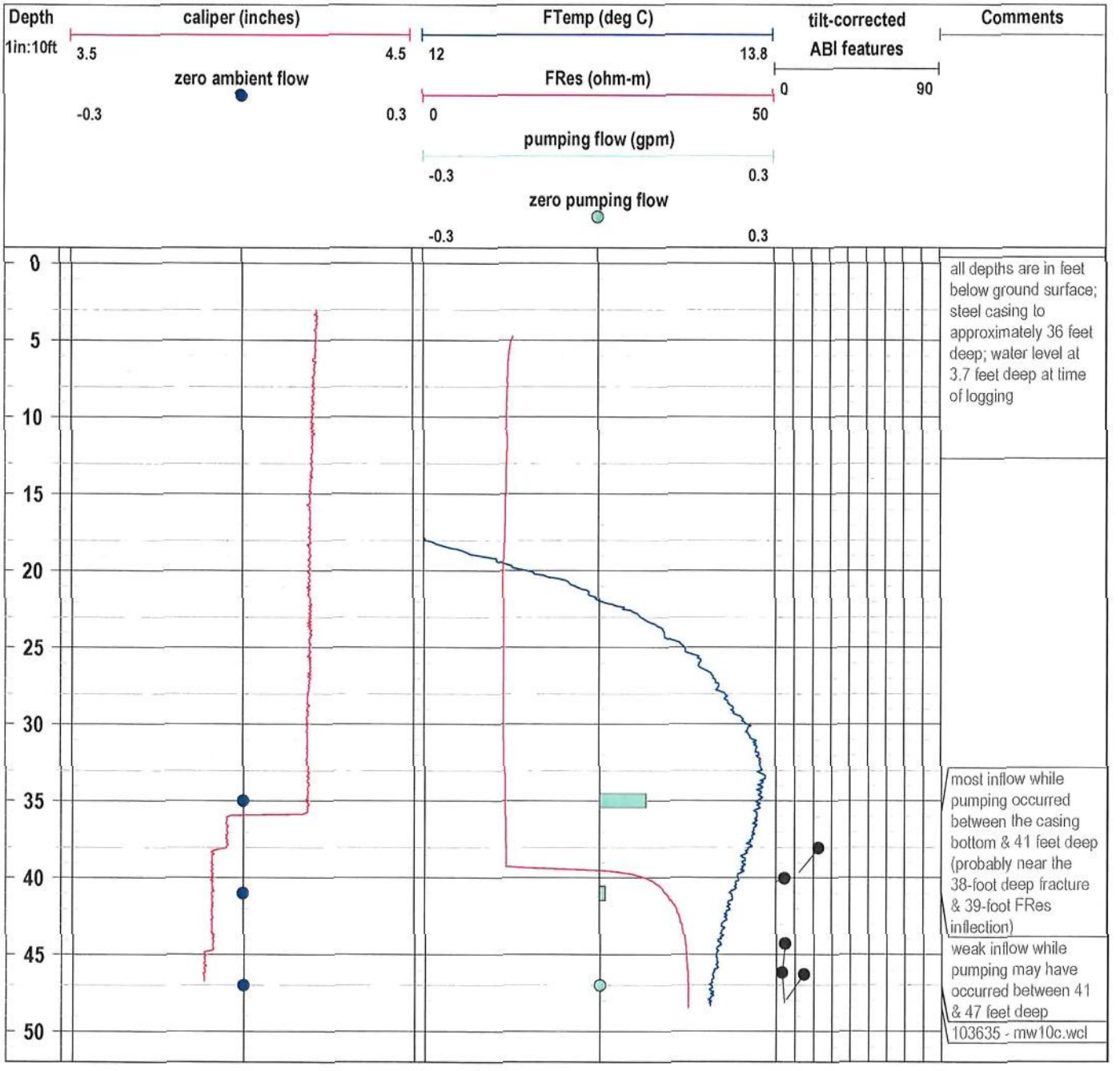
Mark E. Blackey
Principal and Geophysicist

103635 - 103635.rpt.doc

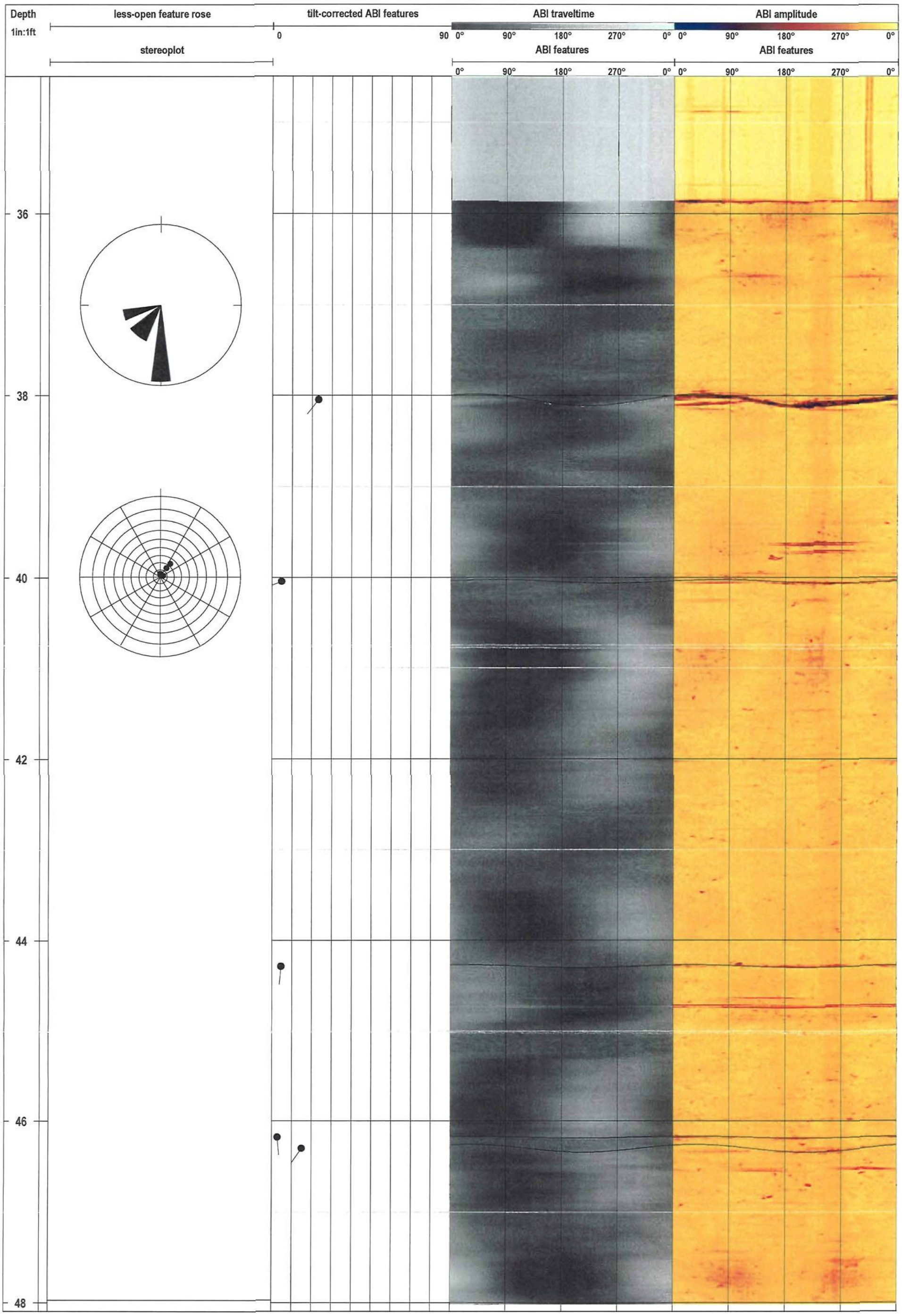
Appendix A

Borehole Geophysics Log Plots

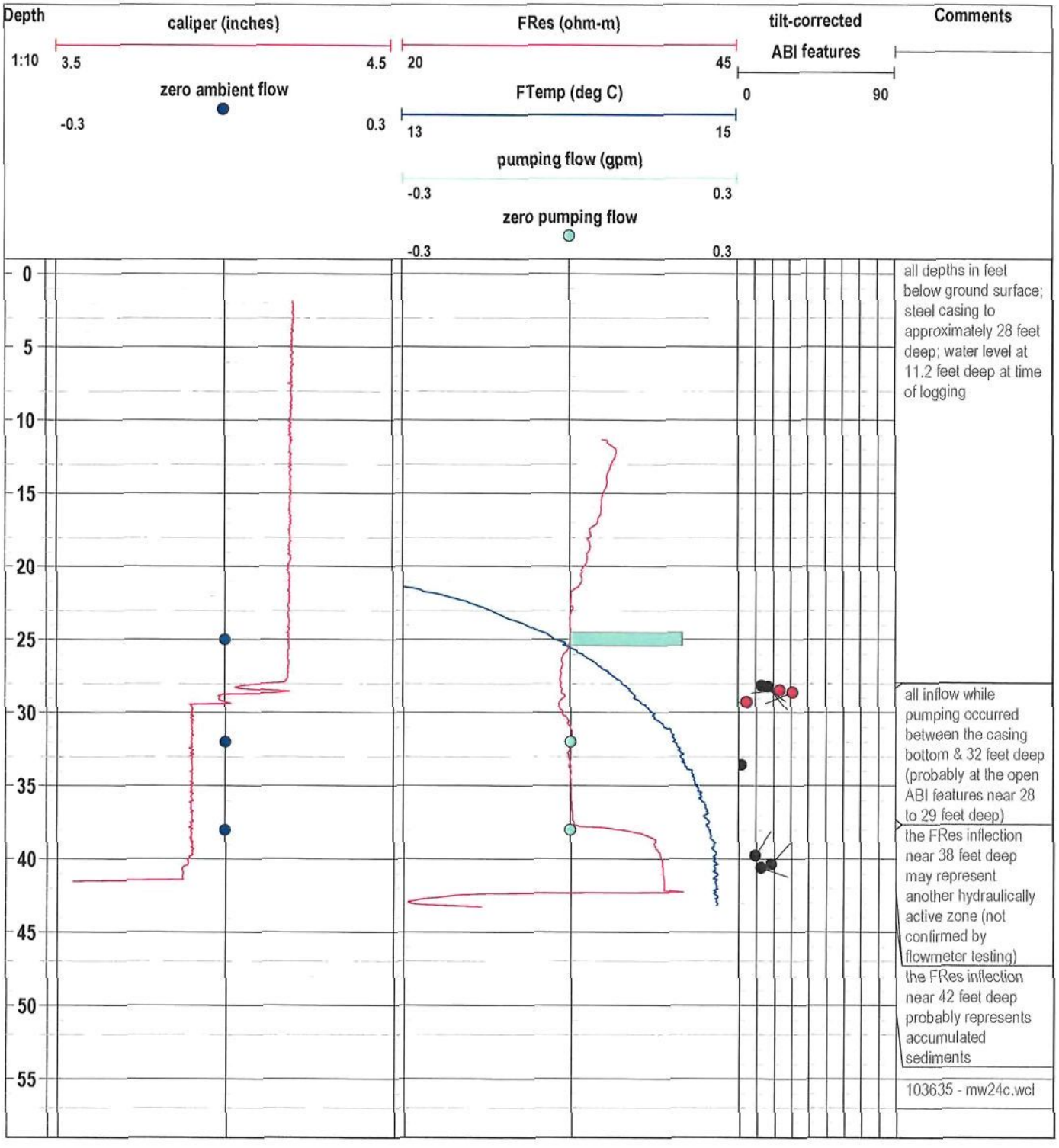
Project: BB&L/Milford, NH - MW-10C conventional logs



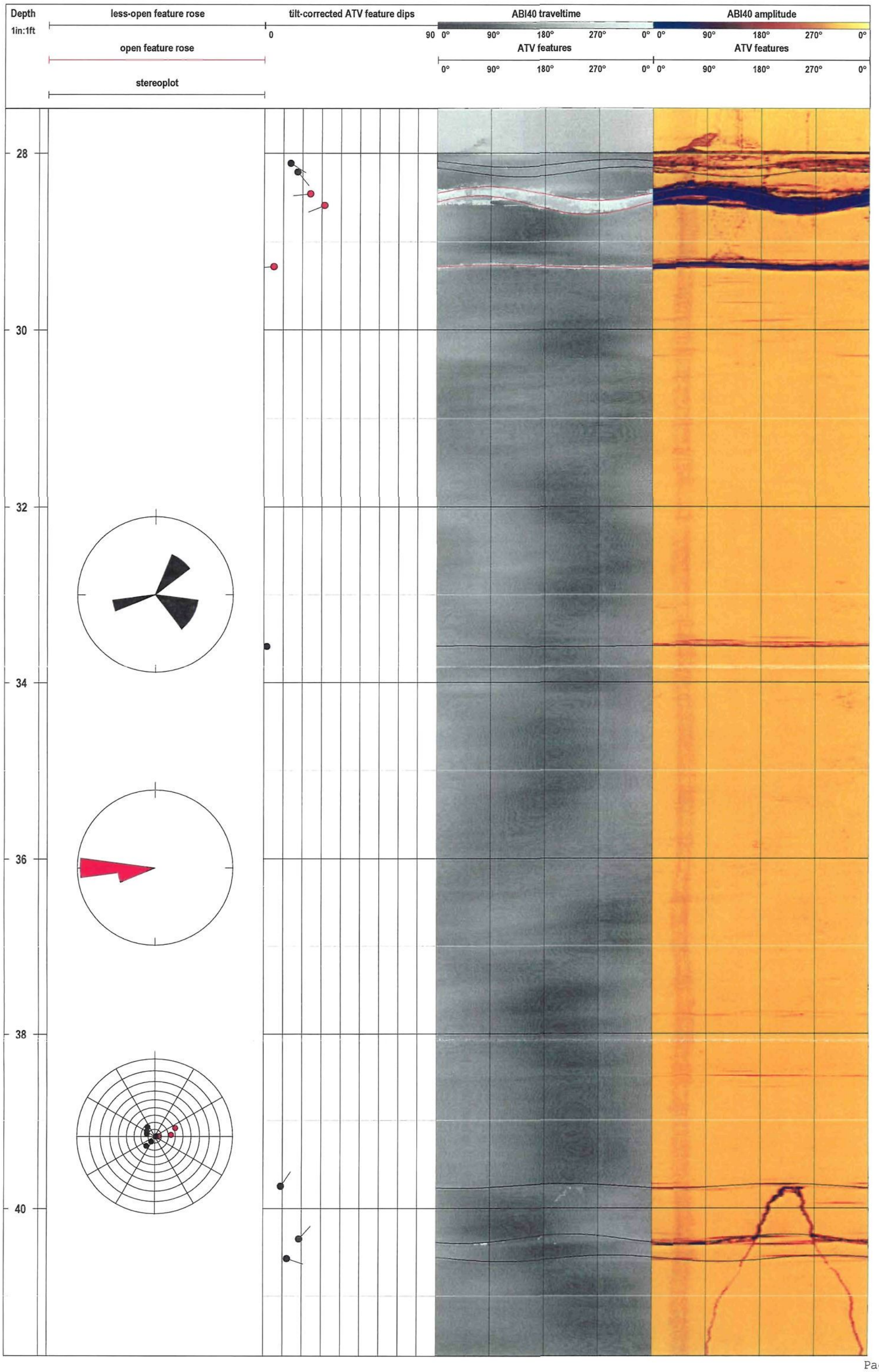
Project: BB&L/Milford, NH - MW-10C acoustic televiewer log

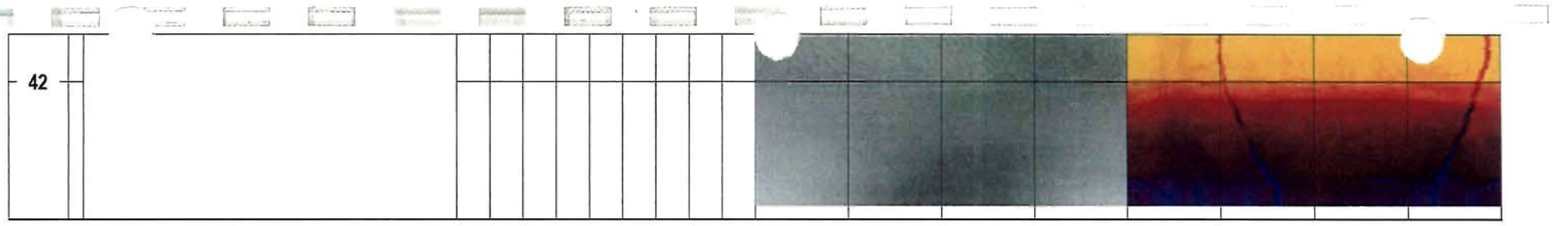


Project: BB&L/Milford, NH - MW-24C conventional logs

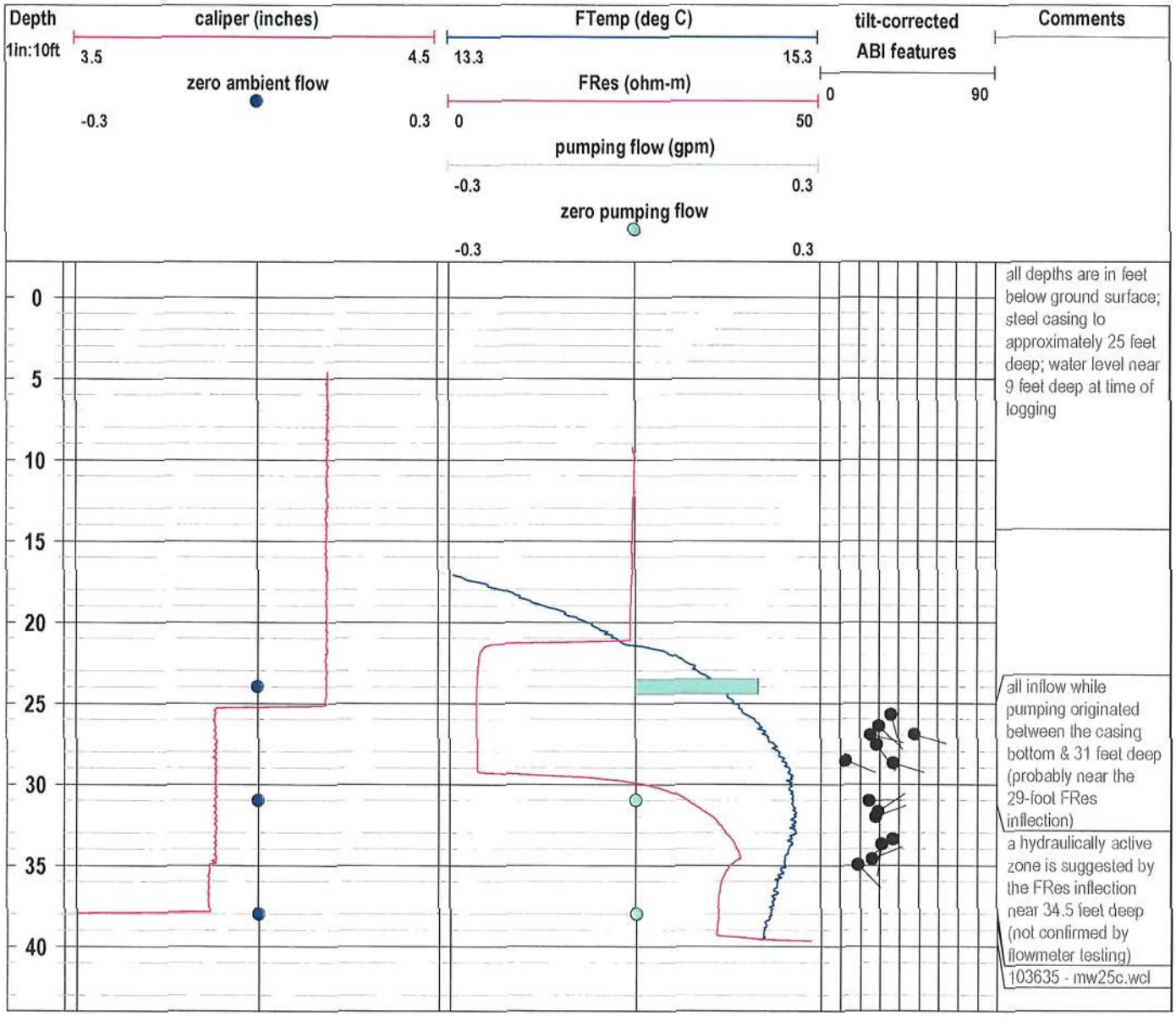


Project: BB&L/Milford, NH - MW-24C acoustic televiewer log

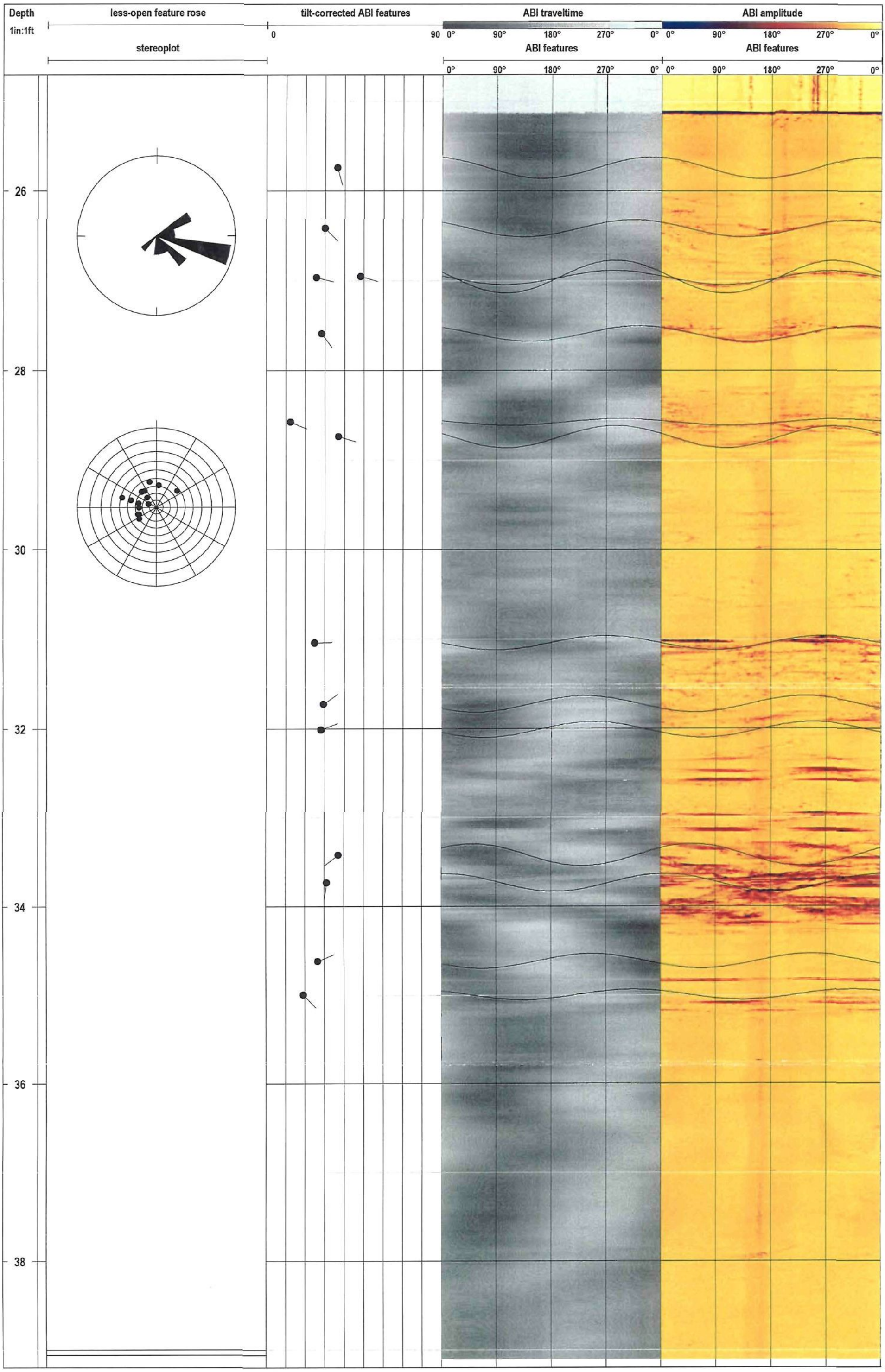



42

Project: BB&L/ Milford, NH - MW-25C conventional logs



Project: BB&L/Milford, NH - MW-25C acoustic televiewer log



Appendix B

Planar-feature Orientations Measured from Televiewer Logs

Planar feature orientations interpreted from MW-10C acoustic televiewer log
Fletcher Paint site
Milford, NH
Prepared for: Blasland Bouck & Lee
103635 - mw10ci.xls

depth (feet)	down-dip compass azimuth (degrees)	dip angle (degrees)	fracture category (open = 105 closed = 100)
38.05	218.5	23.2	100
40.04	249.2	4.9	100
44.28	184.8	4.8	100
46.17	175.2	3.0	100
46.29	215.1	15.1	100

Note that down-dip compass azimuth is perpendicular to the strike direction.

Note that interpreted down-dip compass azimuths are with respect to magnetic north.

Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar feature orientations interpreted from MW-24C acoustic televiewer log
Fletcher Paint site
Milford, NH
Prepared for: Blasland Bouck & Lee
103635 - mw24ci.xls

depth (feet)	down-dip compass azimuth (degrees)	dip angle (degrees)	fracture category (open = 105 closed = 100)
28.11	121.9	13.8	100
28.21	140.8	17.5	100
28.46	264.5	24.1	105
28.59	248.7	31.5	105
29.28	268.2	5.3	105
33.58	253.8	1.6	100
39.74	33.6	9.3	100
40.35	41.5	18.8	100
40.57	108.5	12.6	100

Note that down-dip compass azimuth is perpendicular to the strike direction.

Note that interpreted down-dip compass azimuths are with respect to magnetic north.

Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar feature orientations interpreted from MW-25C acoustic televiewer log
Fletcher Paint site
Milford, NH
Prepared for: Blasland Bouck & Lee
103635 - mw25ci.xls

depth (feet)	down-dip compass azimuth (degrees)	dip angle (degrees)	fracture category (open = 105 closed = 100)
25.74	164.8	36.4	100
26.41	135.6	30.3	100
26.95	105.6	48.4	100
26.97	103.4	25.8	100
27.59	144.2	28.4	100
28.57	111.8	12.6	100
28.74	105.6	37.0	100
31.04	88.3	24.9	100
31.73	55.4	29.4	100
32.01	68.8	28.1	100
33.42	232.2	37.2	100
33.73	187.1	31.4	100
34.61	67.1	26.7	100
34.99	135.7	19.3	100

Note that down-dip compass azimuth is perpendicular to the strike direction.

Note that interpreted down-dip compass azimuths are with respect to magnetic north.

Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Draft for EPA Review

Monitoring Well Development/ Specific Capacity Logs

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Draft for EPA Review

Elm Street Area Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

GE – Fletcher's Paint Milford, NH

Site | Event

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	Well ID:	MW-01A
Oversight Personnel:	N/A	Date:	1/22/03
Client / Job Number:	GE/100.02.073	PID (ppm):	0.0
Weather:	30°, Sunny	Time In: 1250	Time Out: 1745

Well Information

Depth to Water: (initial) (TIC)	(feet) 26.97	Time: 1253
Depth to Water: (static) (TIC)	(feet) 26.97	Time: 1258
Depth to Water: (with tubing) (TIC)	(feet) 27.96	Time: 15:41
Depth to Water: (static w/ tubing) (TIC)	(feet) 27.96	Time: 15:41
Depth to Water: (Final) (TIC)	(feet) 27.99	Time: 17:45
Total Depth: (initial) (TIC)	(feet) 52.00	Time: 1255
Total Depth: (after 30 min surge) (TIC)	(feet) 52.00	Time: 1:25
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:
Length of Water Column:	(feet) 25.03	
Volume of Water in Well:	(gal) 4.07	
Three Well Volumes:	(gal) 12.2	

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1"	2" Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

DTB (Final) (52.00)

Purging Information

Pump Start time: 1543 Pump End time: 1745

Duration of Pumping: (min) 120

Average Pumping Rate: (ml/min) 250 Water-Quality Meter Type: Horiba U-22

Total Volume Removed: (gal) ~8 gal Did well go dry: Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	15:45	16:00	1615	1630	1645	1700	1715	1730	1745
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	27.97	27.99	27.99	27.95	27.99	27.99	27.99	27.99	27.95
Color	pale brown	cloudy	cloudy	cloudy	cloudy	cloudy	cloudy	clear	clear
pH	6.23	6.49	6.19	6.23	6.09	6.09	8.20 6.87	6.12	6.15
Temp. (C)	8.80	9.04	9.36	9.48	9.17	[illegible]	7.87	7.92	7.91
Conductivity (mS/cm)	0.224	0.225	0.224	0.220	0.222	0.220	0.206	0.221	0.218
Turbidity (NTU)	>1,100	321	160	148	77.9	40	32.1	30.1	27.3
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-01B
Oversight Personnel:		**Date:**	01/22/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	Clear Sky	**Time In:** 830	**Time Out:** 1220

Well Information

Depth to Water: (initial) (TIC)	27.09 (feet)	Time:	8:32
Depth to Water: (static) (TIC)	27.09 (feet)	Time:	8:42
Depth to Water: (with tubing) (TIC)	(feet) 26.95	Time:	10:02
Depth to Water: (static w/ tubing) (TIC)	(feet) 26.95	Time:	10:07
Depth to Water: (Final) (TIC)	29.04 (feet) ~~26.95~~	Time: ~~10:29~~	1217
Total Depth: (initial) (TIC)	32.05 (feet)	Time:	8:34
Total Depth: (after 30 min surge) (TIC)	(feet) 32.25	Time:	9:26
Depth to NAPL: (TIC) (DNAPL or LNAPL)	~~NA~~ (feet) N/A	Time:	~~NA~~
Length of Water Column:	(feet) 4.96		
Volume of Water in Well:	(gal) 0.8		
Three Well Volumes:	(gal) 2.42		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Total depth (Final) = 32.25

Purging Information

Pump Start time:	1015	Pump End time:	1215
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 1015	2 1030	3 1045	4 1100	5 1115	6 1130	7 1145	8 1200	9 1215
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	28.14	28.50	29.11	29.11	29.08	29.04	29.04	29.04	29.04
Color	Reddish-brown	Light Red-brown	clear	clear	clear	clear	clear	clear	clear
pH	7.35	6.86	6.62	6.55	6.63	6.59	6.70	6.65	6.63
Temp. (C)	7.79	7.55	9.17	9.83	9.47	9.59	9.14	9.44	10.25
Conductivity (mS/cm)	1.96	2.00	1.99	1.94	1.89	1.85	1.79	1.89	1.93
Turbidity (NTU)	1065	64.8	24.4	10.27	5.94	3.03	5.20	5.12	5.98
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-2AR
Oversight Personnel:	N/A	**Date:**	2/4/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	30°, 6/a dy	**Time In:** 8 10	**Time Out:** 1200

Well Information

Depth to Water: (initial) (TIC)	(feet) 25.75	Time: 8/5	
Depth to Water: (static) (TIC)	(feet) 25.75	Time: 8:30	
Depth to Water: (with tubing) (TIC)	(feet) 25.84	Time: 9:20	
Depth to Water: (static w/ tubing) (TIC)	(feet) 25.84	Time: 9:25	
Depth to Water: (Final) (TIC)	(feet) 25.85	Time: 11 30	
Total Depth: (initial) (TIC)	(feet) 32.61	Time: 8 20	
Total Depth: (after 30 min surge) (TIC)	(feet) 32.61	Time: 900	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 6.86		
Volume of Water in Well:	(gal) 1.11		
Three Well Volumes:	(gal) 3.35		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time: 930 Pump End time: 1130

Duration of Pumping: (min) 120

Average Pumping Rate: (ml/min) 250 Water-Quality Meter Type: Horiba U-22

Total Volume Removed: (gal) 8 Did well go dry: Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	9:30 (1)	9:45 (2)	10:00 (3)	10:15 (4)	10:30 (5)	10:45 (6)	11:00 (7)	11:15 (8)	11:30 (9)
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	25.85	25.86	25.85	25.86	25.86	25.84	25.84	25.85	25.85
Color	Brown	Brown	Brown	Light Brown	clear	clear	clear	clear	clear
pH	6.38	6.60	6.78	7.29	7.16	6.70	6.63	6.42	6.30
Temp. (C)	9.58	8.86	8.67	9.50	9.21	9.45	10.06	9.23	9.46
Conductivity (mS/cm)	0.292	0.290	0.291	0.290	0.295	0.297	0.297	0.294	0.295
Turbidity (NTU)	>1100	>1100	>1100	396	55.4	19.5	11.1	25.9	21.4
Notes:									

Sampling Information N/A

Analyses	#	Laboratory
GW treatability sample		

Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	Well ID:	MW-2B
Oversight Personnel:	N/A	Date:	2/4/09
Client / Job Number:	GE/100.02.073	PID (ppm)	0.0
Weather:	40° Sunny	Time In: 11:37	Time Out: 1500

Well Information

Depth to Water: (initial) (TIC)	22.32 (feet)	Time:	11:09
Depth to Water: (static) (TIC)	22.32 (feet)	Time:	11:15
Depth to Water: (with tubing) (TIC)	22.29 (feet)	Time:	12:34
Depth to Water: (static w/ tubing) (TIC)	(feet) 22.29	Time:	12:39
Depth to Water: (Final) (TIC)	22.43 (feet) ~~12:45~~	Time:	13:45
Total Depth: (initial) (TIC)	29.05 (feet)	Time:	11:10
Total Depth: (after 30 min surge) (TIC)	(feet) 29.05	Time:	11:50
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 6.73		
Volume of Water in Well:	(gal) 6.56		
Three Well Volumes:	(gal) 19.70		

Equipment

Probe Type:	(Water Level)		Interface
Surging Method:	Stainless Steel Bailer		
Purging Method:	Solinst Peristaltic		(Electric Submersible)
Tubing Type:	(Polyethylene)		Teflon lined
Well Diameter:	1"	2"	Other:

Soft Bottom:	(Yes)	(No)
Sediment Removed	Yes	(No)

Purging Information

Pump Start time:	12:45	Pump End time:	1445
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	12:45 1	13:00 2	13:15 3	13:30 4	13:45 5	14:00 6	14:15 7	14:30 8	14:45 9
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	22.39	22.39	22.41	22.42	22.41	22.43	22.44	22.43	22.43
Color	Brown	Pale brown	clear	clear	clear	clear	clear	clear	clear
pH	6.50	6.21	6.60	6.64	6.74	6.84	6.74	6.46	6.34
Temp. (C)	8.74	9.12	9.50	8.95	8.79	9.02	8.98	9.24	8.93
Conductivity (mS/cm)	0.284	0.284	0.292	0.291	0.299	0.293	0.292	0.296	0.300
Turbidity (NTU)	9.56	343	57.3	13.4	21.5	8.71	4.45	3.89	3.18
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site | Event

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel: ~~Joe Lisi/Ricardo Jaimes~~ RJS
Oversight Personnel: N/A
Client / Job Number: GE/100.02.073
Weather: Sunny, 40°F

Well ID: MW-3A
Date: 2/4/04
PID (ppm) 0.0
Time In: 1215 Time Out: 1600

Well Information

Depth to Water: (initial) (TIC)	(feet) 13.98	Time: 1218	
Depth to Water: (static) (TIC)	(feet) 13.98	Time: 1223	
Depth to Water: (with tubing) (TIC)	(feet) 14.10	Time: 1305	
Depth to Water: (static w/ tubing) (TIC)	(feet) 14.10	Time: 1310	
Depth to Water: (Final) (TIC)	(feet) 14.15	Time: 1515	
Total Depth: (initial) (TIC)	(feet) 44.80	Time: 1225	
Total Depth: (after 30 min surge) (TIC)	(feet) 44.90	Time: 1300	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 30.8'		
Volume of Water in Well:	(gal) 5		
Three Well Volumes:	(gal) 15		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time: 1315 Pump End time: 1515
Duration of Pumping: (min) 120
Average Pumping Rate: (ml/min) 250 Water-Quality Meter Type: Horiba U-22
Total Volume Removed: (gal) 8 Did well go dry: Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3875 ml = 0.1337 cubic feet

Time Elapsed	1 INITIAL	2 15	3 30	4 45	5 60	6 75	7 90	8 105	9 120
Volume Purged (gal)	0	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	14.15	14.15	14.15	14.15	14.15	14.15	14.15	14.15	14.15
Color	Lt Brown	Lt Brown	Lt Brown	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless
pH	6.30	6.26	6.24	6.13	6.13	6.16	6.11	6.14	6.15
Temp. (C)	4.89	6.83	7.26	8.14	8.12	7.96	7.88	8.17	8.04
Conductivity (mS/cm)	0.133	0.154	0.210	0.204	0.204	0.204	0.206	0.205	0.206
Turbidity (NTU)	168	166	164	2.75	3.39	2.75	5.09	2.25	2.82
Notes:									

Sampling Information N/A

Analyses	#	Laboratory
GW treatability sample		

Sample ID: Sample Time:
MS/MSD: Yes No
Duplicate: Yes No
Duplicate ID Dup. Time:
Chain of Custody Signed By:

Problems / Observations

- INITIAL PURGE H2O LT BROWN, MODERATE TURBID, ODORLESS
- FINAL PURGE H2O CLEAR, COLORLESS, ODORLESS

44.52 .28 44.62 .28

GE – Fletcher's Paint Milford, NH

Site *Ever*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-3B
Oversight Personnel:	N/A	**Date:**	2/5/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.1
Weather:	BLUE SKY 25°F	**Time In:** 8:00	**Time Out:**

Well Information

Depth to Water: (initial) (TIC)	(feet) 14.59	Time: 800	
Depth to Water: (static) (TIC)	(feet) 14.59	Time: 8:05	
Depth to Water: (with tubing) (TIC)	(feet) 14.57	Time: 8:53	
Depth to Water: (static w/ tubing) (TIC)	(feet) 14.57	Time: 8:58	
Depth to Water: (Final) (TIC)	(feet) 14.58	Time: 11:00	
Total Depth: (initial) (TIC)	(feet) 20.11	Time: 801	
Total Depth: (after 30 min surge) (TIC)	(feet) 20.11	Time: 8:50	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 5.52		
Volume of Water in Well:	(gal) 0.9		
Three Well Volumes:	(gal) 2.7		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time: 900		Pump End time: 1100	
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry: Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	9:00 1	9:15 2	9:30 3	9:45 4	10:00 5	10:15 6	10:30 7	10:45 8	11:00 9
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58
Color	cloudy	clear	clear	clear	clear	clear	clear	clear	clear
pH	6.46	6.09	6.03	6.02	6.02	6.03	6.00	6.02	6.12
Temp. (C)	4.47	4.34	5.61	4.78	5.02	6.30	6.39	6.67	6.39
Conductivity (mS/cm)	0.538	0.534	0.537	0.537	0.525	0.537	0.536	0.533	0.540
Turbidity (NTU)	34.4	34.2	24.1	17.8	13.6	15.3	19.4	8.34	8.54
Notes:		it forms foam	foam		Bm	Bm	foam		

Sampling Information

Analyses	#	Laboratory
GW treatability sample		STL-BFLO
Bacteria		Chem Serv

Sample ID: ES MW-3B		Sample Time: 1100	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID	—	Dup. Time:	—
Chain of Custody Signed By:	Joseph Lisi		

Problems / Observations

Strong gas odor in initial purge water from bailer.

Pumping becomes difficult because water is very foamy.

Very strong gas odor throughout pumping

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-4A
Oversight Personnel:	N/A	**Date:**	1/27/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	20°, cloudy	**Time In:** 925	**Time Out:**

Well Information

Depth to Water: (initial) (TIC)	(feet)	10.84	Time: 928
Depth to Water: (static) (TIC)	(feet)	10.84	Time: 933
Depth to Water: (with tubing) (TIC)	(feet)	10.84	Time: 1014
Depth to Water: (static w/ tubing) (TIC)	(feet)	10.84	Time: 1019
Depth to Water: (Final) (TIC)	(feet)	10.88	Time: 1220
Total Depth: (initial) (TIC)	(feet)	48.65	Time: 9:36
Total Depth: (after 30 min surge) (TIC)	(feet)	49.75	Time: 10:05
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:
Length of Water Column:	(feet)	37.81	
Volume of Water in Well:	(gal)	6.16	
Three Well Volumes:	(gal)	18.4	

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

DTB (final) = 49.75

Purging Information

Pump Start time:	1020	Pump End time:	1220
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	1020	1035	1050	1105	1120	1135	1150	1205	1220
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88
Color	lt. Brown	lt. Brown	lt. Brown	lt. Brown	cloudy	cloudy	clear	clear	clear
pH	6.60	6.60	6.53	6.33	6.23	6.30	6.26	6.29	6.28
Temp. (C)	7.16	7.61	6.80	5.61	6.48	6.20	6.76	6.41	6.61
Conductivity (mS/cm)	0.151	0.151	0.149	0.147	0.147	0.146	0.146	0.150	0.148
Turbidity (NTU)	2100	857	611	349	212	163	88.0	44.2	38.8
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-04B
Oversight Personnel:	N/A	**Date:**	1/27/01
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	20°, Cloudy	**Time In:** 9:25	**Time Out:** 1225

Well Information

Depth to Water: (initial) (TIC)	(feet)	11.17	Time:	9:33
Depth to Water: (static) (TIC)	(feet)	11.17	Time:	9:39
Depth to Water: (with tubing) (TIC)	(feet)	11.15	Time:	10:16
Depth to Water: (static w/ tubing) (TIC)	(feet)	11.15	Time:	10:20
Depth to Water: (Final) (TIC)	(feet)	11.12	Time:	12:20
Total Depth: (initial) (TIC)	(feet)	16.46	Time:	9:35
Total Depth: (after 30 min surge) (TIC)	(feet)	16.98	Time:	10:05
Depth to NAPL: (TIC) (DNAPL or LNAPL) N/A	(feet)	N/A	Time:	
Length of Water Column:	(feet)	5.29		
Volume of Water in Well:	(gal)	0.8		
Three Well Volumes:	(gal)	2.5		

Equipment

Probe Type:	Water Level	(Interface)
Surging Method:	(Stainless Steel Bailer)	
Purging Method:	(Solinst Peristaltic)	Electric Submersible
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1"	(2") Other:

Soft Bottom:	Yes	(No)
Sediment Removed	Yes	(No)

DTB(Final) = 16.48

Purging Information

Pump Start time: 1020 Pump End time: 1220

Duration of Pumping: (min) 120

Average Pumping Rate: (ml/min) 250 Water-Quality Meter Type: Horiba U-22

Total Volume Removed: (gal) 8 Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	10.20	10:35	10:50	11:05	11:20	11:35	11:50	12:05	12:20
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	11.14	11.14	11.14	11.13	11.13	11.12	11.12	11.12	11.12
Color	clear	clear	clear	clear	clear	clear	clear	clear	clear
pH	6.87	6.53	6.38	6.39	6.39	6.37	6.36	6.44	6.42
Temp. (C)	4.57	5.60	6.18	5.02	5.41	4.63	4.78	5.03	4.86
Conductivity (mS/cm)	0.204	0.169	0.173	0.176	0.178	0.180	0.184	0.181	0.184
Turbidity (NTU)	27	11.8	6.75	2.29	2.12	0.78	1.11	1.23	0.36
Notes:									

Sampling Information

Analyses	# N/A	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site | Event

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	~~Joe Lisi/Ricardo Jaimes~~ RDS	Well ID:	MW-4C
Oversight Personnel:	NA	Date:	2/4/04
Client / Job Number:	GE/100.02.073	PID (ppm)	0.0
Weather:	OVERCAST, 40°F	Time In: 0820	Time Out: 1115

Well Information

Depth to Water: (initial) (TIC)	(feet)	10.20	Time:	0820
Depth to Water: (static) (TIC)	(feet)	10.20	Time:	0825
Depth to Water: (with tubing) (TIC)	(feet)	10.24	Time:	0905
Depth to Water: (static w/ tubing) (TIC)	(feet)	10.24	Time:	0910
Depth to Water: (Final) (TIC)	(feet)	10.26	Time:	1115
Total Depth: (initial) (TIC)	(feet)	55.33	Time:	0827
Total Depth: (after 30 min surge) (TIC)	(feet)	55.35	Time:	0900
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	44.61		
Volume of Water in Well:	(gal)	7.3		
Three Well Volumes:	(gal)	21.9		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

SLIGHTLY

Purging Information

Pump Start time:	0915	Pump End time:	1115
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 INITIAL	2 15	3 30	4 45	5 60	6 75	7 90	8 105	9 120
Volume Purged (gal)	0	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	10.26	10.26	10.26	10.26	10.26	10.26	10.26	10.26	10.26
Color	LIGHT BROWN	LT BROWN	LT BROWN	LT BROWN	LT BROWN	LT BROWN	LT BROWN	OPAQUE	OPAQUE
pH	7.59	6.90	6.75	6.59	6.57	6.57	6.41	6.30	6.31
Temp. (C)	7.76	8.44	7.65	8.05	8.14	8.17	10.17	10.23	10.17
Conductivity (mS/cm)	0.099	0.089	0.113	0.118	0.116	0.145	0.165	0.162	0.172
Turbidity (NTU)	51.5	113	494	492	499	595	240	148	25.6
Notes:									

Sampling Information N/A

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

- INITIAL PURGE H2O LT BROWN, MODERATELY TURBID, ODORLESS
- FINAL PURGE H2O OPAQUE, COLORLESS, ODORLESS

55.05
.28
55.33

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-26A
Oversight Personnel:	N/A	**Date:**	01/22/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	1.6
Weather:	Cloudy Sky, 35°	**Time In:**	8:51 **Time Out:** 1520

Well Information

Depth to Water: (initial) (TIC)	23.52	(feet)	Time: 8:57
Depth to Water: (static) (TIC)	23.58	(feet)	Time: 9:00
Depth to Water: ~~(with tubing)~~ (TIC)	23.64	(feet)	Time: 1313
Depth to Water: (static w/ tubing) (TIC)	23.64	(feet)	Time: 1318
Depth to Water: (Final) (TIC)	23.66	(feet)	Time: 1520
Total Depth: (initial) (TIC)	45.00	(feet)	Time: 8:58
Total Depth: (after 30 min surge) (TIC)	45.00	(feet)	Time: 9:32
Depth to NAPL: (TIC) (DNAPL or LNAPL)	N/A	(feet)	Time:
Length of Water Column:	21.42	(feet)	
Volume of Water in Well:	3.5	(gal)	
Three Well Volumes:	10.5	(gal)	

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	~~Spinst Peristaltic~~	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

DTB(final) = 45.00

Purging Information

Pump Start time:	1320	Pump End time:	1520
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	1320	1335	13:50	1405	14:20	14:35	1450	1505	1520
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	23.69	23.65	23.65	23.65	23.65	23.65	23.70	23.68	23.66
Color	Brown	Brown	Brown	Brown	Brown	Light Brown	Lt. Brown	Clear	Clear
pH	7.10	6.68	6.54	6.30	6.26	6.30	6.25	6.27	6.18
Temp. (C)	11.67	9.45	9.27	11.22	11.16	10.60	10.22	9.00	9.72
Conductivity (mS/cm)	0.375	0.320	0.311	0.326	0.315	0.315	0.313	0.310	0.305
Turbidity (NTU)	>1100	>1100	>1100	>1100	>1100	450	226	78.1	24.1
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-26B
Oversight Personnel:	N/A	**Date:**	2/4/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	
Weather:	30°, Cloudy	**Time In:** 820	**Time Out:** 1200

Well Information

Depth to Water: (initial) (TIC)	(feet)	24.28	Time:	823
Depth to Water: (static) (TIC)	(feet)	24.28	Time:	828
Depth to Water: (with tubing) (TIC)	(feet)	24.30	Time:	858
Depth to Water: (static w/ tubing) (TIC)	(feet)	24.30	Time:	901
Depth to Water: (Final) (TIC)	(feet)	24.30	Time:	
Total Depth: (initial) (TIC)	(feet)	32.10	Time:	825
Total Depth: (after 30 min surge) (TIC)	(feet)	32.13	Time:	850
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	
Length of Water Column:	(feet)	7.85		
Volume of Water in Well:	(gal)	1.3		
Three Well Volumes:	(gal)	3.8		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time:	915		Pump End time:	1115
Duration of Pumping:	(min)	120		
Average Pumping Rate:	(ml/min)	250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal)	8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	915	9:30	9:45	10:00	10:15	10:30	10:45	1100	1115
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	24.31	24.28	24.30	24.32	24.31	24.30	24.30	24.30	24.30
Color	Dk. Brown	Brown	Brown	cloudy	clear	clear	clear	clear	clear
pH	7.32	6.37	6.35	6.96	6.52	6.54	6.61	6.20	6.71
Temp. (C)	8.99	8.37	10.0	10.31	10.04	10.15	9.68	10.52	10.61
Conductivity (mS/cm)	0.350	0.347	0.353	0.405	0.416	0.392	0.386	0.407	0.412
Turbidity (NTU)	>1100	>1100	>1100	253	84.3	65.4	44.6	34.1	21.2
Notes:				odor					

Sampling Information

Analyses	#	Laboratory
GW treatability sample		STL-BFLO
Bacteria		ChemServ

Sample ID:	ESMW-26B	Sample Time:	1115
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID	DUP-1	Dup. Time:	1115
Chain of Custody Signed By:	Brayh		

Problems / Observations

Odor present throughout pumping.

GE – Fletcher's Paint Milford, NH

Site | Event

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	Well ID:	MW-27A
Oversight Personnel:	N/A	Date:	2/5/04
Client / Job Number:	GE/100.02.073	PID (ppm)	22 initial / steady 5-3
Weather:	cloudy 17°F	Time In: 15:02	Time Out: 1825

Well Information

Depth to Water: (initial) (TIC)	24.54	(feet) 24.54	Time: 15:05
Depth to Water: (static) (TIC)	24.54	(feet) 24.54	Time: 15:010
Depth to Water: (with tubing) (TIC)		(feet) 24.63	Time: 16:09
Depth to Water: (static w/ tubing) (TIC)		(feet) 24.63	Time: 16.14
Depth to Water: (Final) (TIC)		(feet) 27.0	Time: 1820
Total Depth: (initial) (TIC)		(feet) 39.38	Time: 15.06
Total Depth: (after 30 min surge) (TIC)		(feet) 39.25	Time: 16:01
Depth to NAPL: (TIC) (DNAPL or LNAPL)		(feet) N/A	Time:
Length of Water Column:		(feet) 14.71	
Volume of Water in Well:		(gal) 2.4	
Three Well Volumes:		(gal) 7.2	

Equipment

Probe Type:	Water Level	(Interface)
Surging Method:	(Stainless Steel Bailer)	
Purging Method:	Solinst Peristaltic	(Electric Submersible)
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1" (2")	Other:

Soft Bottom:	(Yes)	No
Sediment Removed	(Yes)	No

Purging Information

Pump Start time:	1620	Pump End time:	1820
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	16:20 (1)	16:35 (2)	16:50 (3)	17:05 (4)	17:20 (5)	17:35 (6)	17:50 (7)	18:05 (8)	18:20 (9)
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	25.74	25.78	25.9	25.9	26.00	26.12	26.18	27.0	27.0
Color	brown	brown	brown	brown	brown	brown	brown	Lt. Brown	H. Brown
pH	6.41	6.49	6.58	6.71	6.76	6.73	6.69	6.72	6.70
Temp. (C)	8.34	8.87	9.13	8.26	8.0	8.28	9.39	9.29	9.34
Conductivity (mS/cm)	0.631	0.549	0.527	0.427	0.423	0.415	0.402	0.415	0.412
Turbidity (NTU)	>100	>100	>100	>100	>100	842	>100	662	451
Notes:	PID 0.6	PID 0.7	PID 0.9	PID 0.3	PID 0.3	PID gas odor 0.0	PID gas odor 0.0	PID gas odor 0.0	PID 0.0

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

gas odor throughout pumping

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-27B
Oversight Personnel:	N/A	**Date:**	2/5/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	41.1 then steady 5.0-3.0
Weather:	Cloudy 17°F	**Time In:** 13:34	**Time Out:** 1645

Well Information

Depth to Water: (initial) (TIC)	(feet) 22.81	Time: 13:36
Depth to Water: (static) (TIC)	(feet) 22.82	Time: 13:40
Depth to Water: (with tubing) (TIC)	(feet) 23.33	Time: 14:29
Depth to Water: (static w/ tubing) (TIC)	(feet) 23.33	Time: 14:34
Depth to Water: (Final) (TIC)	(feet) 25.30	Time: 1640
Total Depth: (initial) (TIC)	(feet) 26.1	Time: 13:38
Total Depth: (after 30 min surge) (TIC)	(feet) 28.15	Time: 14:18
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:
Length of Water Column:	(feet) 5.34	
Volume of Water in Well:	(gal) 0.87	
Three Well Volumes:	(gal) 2.6	

Equipment

Probe Type:	Water Level	(Interface)
Surging Method:	Stainless Steel (Bailer)	
Purging Method:	Solinst Peristaltic	(Electric Submersible)
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1" (6")	Other:

Soft Bottom:	(Yes)	No
Sediment Removed	(Yes)	No

Purging Information

Pump Start time:	1440	Pump End time:	1640
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 14:40	2 14:55	3 15:10	4 15:25	5 15:40	6 15:55	7 16:10	8 16:25	9 16:40
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	25.12	24.50	24.49	25.3	25.30	25.35	25.30	25.33	25.30
Color	brown	brown	brown	brown	brown	cloudy	cloudy	cloudy	clear
pH	6.12	5.75	5.85	5.77	6.12	5.72	5.86	6.08	6.17
Temp. (C)	3.36	7.98	8.19	9.09	9.29	9.15	8.13	8.86	8.44
Conductivity (mS/cm)	6.61	6.67	6.82	5.89	6.29	5.85	5.49	5.47	5.34
Turbidity (NTU)	>1100	>1100	>1100	>1100	>1100	132	279	89.7	31.0
Notes:	PID 52	PID 30	PID 50.1	PID 41.2	PID 22.7	PID 34.9	PID 16.6	PID 26.9	PID 18.3

Sampling Information

Analyses	#	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD: Yes	No	
Duplicate: Yes	No	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

after surging 27 (PID)

~~gas odor~~

Strong gas odor throughout purging.
No sheen observed

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-28A
Oversight Personnel:	N/A	**Date:**	1/26/08
Client / Job Number:	GE/100.02.073	**PID (ppm)**	1.7
Weather:	25°, Sunny	**Time In:** 1322	**Time Out:** 1640

Well Information

Depth to Water: (initial) (TIC)	20.57 (feet)	Time:	1318
Depth to Water: (static) (TIC)	(feet) 20.57	Time:	1323
Depth to Water: (with tubing) (TIC)	(feet) 20.63	Time:	1430
Depth to Water: (static w/ tubing) (TIC)	(feet) 20.63	Time:	1435
Depth to Water: (Final) (TIC)	(feet) 20.80	Time:	1635
Total Depth: (initial) (TIC)	(feet) 33.25	Time:	1320
Total Depth: (after 30 min surge) (TIC)	(feet) 34.80	Time:	1427
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 14.23		
Volume of Water in Well:	(gal) 2.3		
Three Well Volumes:	(gal) 6.9		

Equipment

Probe Type:	Water Level	(Interface)
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	(Electric Submersible)
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1" (2")	Other:

Soft Bottom:	(Yes)	No
Sediment Removed	(Yes)	No

PTB (final) = 34.80

Purging Information

Pump Start time:	1435	Pump End time:	1635
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 1435	2 1450	3 1505	4 1520	5 1535	6 1550	7 1605	8 1620	9 1635
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	20.84	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80
Color	Dk. Brown	Dk. Brown	H. Brown	H. Brown	H. Brown	H. Brown	Clear	Clear	Clear
pH	7.58	6.63	6.62	6.43	6.09	6.22	6.36	6.08	6.11
Temp. (C)	9.37	7.86	7.85	7.41	7.66	7.72	7.78	7.57	7.80
Conductivity (mS/cm)	0.572	0.509	0.509	0.477	0.492	0.473	0.475	0.471	0.455
Turbidity (NTU)	>1100	>1100	1041	566	405	108.1	26.3	7.69	8.89
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

Odor & sheen present on water
used mini typhoon to remove sediment from bottom of well that couldn't be removed with Bailer

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-28B
Oversight Personnel:	N/A	**Date:**	1/26/05
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.5
Weather:	25°, Sunny	**Time In:** 1302	**Time Out:** 1705

Well Information

Depth to Water: (initial) (TIC)	16.295 (feet)	Time:	1315
Depth to Water: (static) (TIC)	(feet) 15.91	Time:	13:39
Depth to Water: (with tubing) (TIC)	(feet) 15.91	Time:	14:46
Depth to Water: (static w/ tubing) (TIC)	(feet) 15.91	Time:	14:51
Depth to Water: (Final) (TIC)	(feet) 16.99	Time:	17:00
Total Depth: (initial) (TIC)	(feet) 22.75	Time:	13:27
Total Depth: (after 30 min surge) (TIC)	(feet) 22.86	Time:	14:32
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 6.56		
Volume of Water in Well:	(gal) 1.1		
Three Well Volumes:	(gal) 3.2		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

DTB (final) = 22.86

Purging Information

Pump Start time:	1500	Pump End time:	1700
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 15:00	2 15:15	3 15:30	4 15:45	5 16:00	6 16:15	7 16:30	8 16:45	9 17:00
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	15.98	15.97	15.99	15.98	15.98	15.99	15.99	15.99	15.99
Color	Brown	Clear	clear	clear	clear	clear	cloudy	clear	clear
pH	6.32	6.15	6.11	6.11	6.06	6.03	5.97	5.97	5.97
Temp. (C)	7.15	6.32	5.93	6.23	6.67	5.79	5.11	6.50	5.03
Conductivity (mS/cm)	0.295	0.288	0.285	0.319	0.288	0.290	0.261	0.278	0.270
Turbidity (NTU)	419	49.2	22.9	23.9	4.72	3.23	28.4	21.3	6.26
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample	N/A	

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

DW 15.97 — 14:02
TD 22.80 — 14:03
Odor, sheen, film on water

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-29B
Oversight Personnel:	N/A	**Date:**	2/4/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	40°, Sunny	**Time In:** 1200	**Time Out:** 1510

Well Information

Depth to Water: (initial) (TIC)	(feet) 26.01	Time: 1200	
Depth to Water: (static) (TIC)	(feet) 26.01	Time: 1245	
Depth to Water: (with tubing) (TIC)	(feet) 26.03	Time: 1251	
Depth to Water: (static w/ tubing) (TIC)	(feet) 26.03	Time: 1256	
Depth to Water: (Final) (TIC)	(feet) 26.05	Time: 1505	
Total Depth: (initial) (TIC)	(feet) 32.85	Time: 1212	
Total Depth: (after 30 min surge) (TIC)	(feet) 32.93	Time: 1250	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 6.92		
Volume of Water in Well:	(gal) 1.1		
Three Well Volumes:	(gal) 3.4		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time:	1305	Pump End time:	1600
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1305 (1)	1320 (2)	13:35 (3)	13:50 (4)	14:05 (5)	14:20 (6)	14:35 (7)	14:50 (8)	15:05 (9)
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	26.03	26.03	26.05	26.10	26.05	26.05	26.05	26.05	26.05
Color	Dk. Brown	Dk Brown	Light Brown	clear	clear	clear	clear	clear	clear
pH	6.23	6.28	6.28	6.17	6.12	6.15	6.14	6.12	6.25
Temp. (C)	9.90	10.38	10.03	9.54	9.62	9.70	9.94	9.91	9.97
Conductivity (mS/cm)	0.424	0.423	0.423	0.418	0.414	0.423	0.426	0.424	0.425
Turbidity (NTU)	>1100	>1100	441	122	51.5	8.97	6.64	5.42	9.82
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		STD BFLo
Bacteria		Chem Serv
Sample ID: GSMW-29B	Sample Time: 1305	
MS/MSD: Yes No		
Duplicate: Yes No		
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

Draft for EPA Review

Mill Street Area Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	Well ID:	MW-7A
Oversight Personnel:	N/A	Date:	2/5/04
Client / Job Number:	GE/100.02.073	PID (ppm)	0.0
Weather:		Time In: 830	Time Out: 1120

Well Information

Depth to Water: (initial) (TIC)	(feet)	8.88	Time: 834
Depth to Water: (static) (TIC)	(feet)	8.88	Time: 839
Depth to Water: (with tubing) (TIC)	(feet)	8.89	Time: 905
Depth to Water: (static w/ tubing) (TIC)	(feet)	8.89	Time: 915
Depth to Water: (Final) (TIC)	(feet)	9.91	Time: 1115
Total Depth: (initial) (TIC)	(feet)	18.87	Time: 840
Total Depth: (after 30 min surge) (TIC)	(feet)	18.87	Time: 900
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:
Length of Water Column:	(feet)	9.99	
Volume of Water in Well:	(gal)	1.6	
Three Well Volumes:	(gal)	4.88	

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time:	915	Pump End time:	115
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1: 915	2: 930	3: 945	4: 1000	5: 1015	6: 1030	7: 1045	8: 1100	9: 1115
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	9.91	9.91	9.91	9.91	9.91	9.91	9.91	9.91	9.91
Color	lt. Brown	cloudy	clear	clear	clear	clear	clear	clear	clear
pH	8.96	6.17	6.14	6.19	6.18	6.23	6.16	6.21	6.20
Temp. (C)	6.10	8.13	8.14	8.12	8.15	8.17	8.58	8.93	8.92
Conductivity (mS/cm)	0.241	0.236	0.230	0.228	0.229	0.228	0.229	0.228	0.225
Turbidity (NTU)	671	65.1	18.6	14.4	12.2	9.23	11.4	2.92	2.80
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		STL BFLO
Butera		ChemServ

Sample ID: MSMW-07A		Sample Time:	1115
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID	—	Dup Time:	—
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-9A
Oversight Personnel:	N/A	**Date:**	1/22/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	20°, cloudy	**Time In:**	1330 **Time Out:** 1640

Well Information

Depth to Water: (initial) (TIC)	~~5.60~~ (feet)	5.60	Time: 13:43
Depth to Water: (static) (TIC)	(feet)	5.60	Time: 13:48
Depth to Water: (with tubing) (TIC)	(feet)	5.59	Time: 14:22
Depth to Water: (static w/ tubing) (TIC)	(feet)	5.58	Time: 14:26
Depth to Water: (Final) (TIC)	(feet)	5.68	Time: 1635
Total Depth: (initial) (TIC)	(feet)	22.28	Time: 1344
Total Depth: (after 30 min surge) (TIC)	(feet)	22.18	Time: 1411
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:
Length of Water Column:	(feet)	16.58	
Volume of Water in Well:	(gal)	2.7	
Three Well Volumes:	(gal)	8.1	

Equipment

Probe Type:	Water Level	(Interface)
Surging Method:	Stainless Steel Bailer	
Purging Method:	(Solinst Peristaltic)	Electric Submersible
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1" (2")	Other:

Soft Bottom:	Yes	(No)
Sediment Removed	Yes	(No)

DTB(final) = 22.18

Purging Information

Pump Start time:	1435	Pump End time:	1635
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1435 1	1450 2	15:05 3	15:20 4	15:35 5	15:50 6	16:05 7	16:20 8	16:35 9
Volume Purged (gal)	—	1	1	2	3	4	5	6	7
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	5.68	5.69	5.69	5.69	5.69	5.69	5.68	5.68	5.68
Color	cloudy	clear	clear	clear	clear	clear	clear	clear	clear
pH	5.58	5.11	5.22	5.14	5.12	5.16	5.16	5.16	5.22
Temp. (C)	1.18	3.19	4.06	3.29	2.98	3.32	3.50	3.41	3.79
Conductivity (mS/cm)	0.116	0.116	0.123	0.121	0.122	0.126	0.124	0.124	0.123
Turbidity (NTU)	79.4	36.6	21.0	17.2	15.8	7.99	6.52	7.87	5.46
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample	N/A	
Sample ID:	Sample Time:	
MS/MSD: Yes	No	
Duplicate: Yes	No	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-9B
Oversight Personnel:	N/A	**Date:**	1/27/24
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	20°, cloudy	**Time In:** 1330	**Time Out:** 1635

Well Information

Depth to Water: (initial) (TIC)	(feet) 4.87	Time: 13:42	
Depth to Water: (static) (TIC)	(feet) 4.87	Time: 13:47	
Depth to Water: (with tubing) (TIC)	(feet) 4.90	Time: 1417	
Depth to Water: (static w/ tubing) (TIC)	(feet) 4.90	Time: 1422	
Depth to Water: (Final) (TIC)	(feet) 4.93	Time: 1630	
Total Depth: (initial) (TIC)	(feet) 13.28	Time: 13:44	
Total Depth: (after 30 min surge) (TIC)	(feet) 13.45	Time: 1416	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 8.58		
Volume of Water in Well:	(gal) 1.4		
Three Well Volumes:	(gal) 4.2		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

DTW (final) = 13.45

Purging Information

Pump Start time:	1430	Pump End time:	1630
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1430 1	1445 2	1500 3	1515 4	1530 5	1545 6	1600 7	1615 8	1630 9
Volume Purged (gal)	—	~~1~~	~~2~~	~~3~~	~~4~~	~~5~~	~~6~~	~~7~~	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	4.92	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93
Color	H. Red-Brown	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
pH	6.12	5.62	5.72	5.50	5.58	5.59	5.56	5.60	5.64
Temp. (C)	4.18	3.19	1.53	0.37	0.18	0.15	0.12	0.11	0.17
Conductivity (mS/cm)	0.149	0.146	0.155	0.148	0.146	0.147	0.147	0.151	0.147
Turbidity (NTU)	32.9	1.45	0.90	3.75	1.55	1.54	0.70	0.50	0.73
Notes:									

Sampling Information

Analyses	# N/A	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-18B
Oversight Personnel:		**Date:**	02/03/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	cloudy 25°F	**Time In:** 11:50	**Time Out:**

Well Information

Depth to Water: (initial) (TIC)	(feet) 21.71	Time: 11:54	
Depth to Water: (static) (TIC)	(feet) 21.71	Time: 12:01	
Depth to Water: (with tubing) (TIC)	(feet) 21.72	Time: 13:21	
Depth to Water: (static w/ tubing) (TIC)	(feet) 21.72	Time: 13:26	
Depth to Water: (Final) (TIC)	(feet) 21.72	Time: 1530	
Total Depth: (initial) (TIC)	(feet) 28.31	Time: 11:57	
Total Depth: (after 30 min surge) (TIC)	(feet) 28.33	Time: 1320	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 6.62		
Volume of Water in Well:	(gal) 1.08		
Three Well Volumes:	(gal) 3.23		

Equipment

Probe Type:	Water Level	(Interface)
Surging Method:	Stainless Steel (Bailer)	
Purging Method:	Solinst Peristaltic	(Electric Submersible)
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1" (2")	Other:

Soft Bottom:	Yes	(No)
Sediment Removed	~~Yes~~	(No)

Purging Information

Pump Start time: 1330		Pump End time: 1530	
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	13:30 (1)	13:45 (2)	14:00 (3)	14:15 (4)	14:30 (5)	14:45 (6)	15:00 (7)	15:15 (8)	1530 (9)
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	21.72	21.72	21.72	21.72	21.72	21.72	21.72	21.72	21.72
Color	clear	clear	clear	clear	clear	clear	clear	clear	clear
pH	6.43	6.30	6.19	6.25	6.19	6.19	6.16	6.11	6.10
Temp. (C)	8.21	8.03	9.65	8.89	8.87	9.07	8.92	8.37	8.43
Conductivity (mS/cm)	0.247	0.235	0.232	0.232	0.230	0.229	0.230	0.236	0.234
Turbidity (NTU)	9.16	2.10	0.37	0.0	0.05	0.00	0.03	0.01	0.08
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-21C
Oversight Personnel:	N/A	**Date:**	11/21/03
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	20°, Sunny	**Time In:** 932	**Time Out:**

Well Information

Depth to Water: (initial) (TIC)	(feet) 9.07	Time: 933	
Depth to Water: (static) (TIC)	(feet) 9.07	Time: 938	
Depth to Water: (with tubing) (TIC)	(feet) N/A	Time:	
Depth to Water: (static w/ tubing) (TIC)	(feet) N/A	Time:	
Depth to Water: (Final) (TIC)	(feet) N/A	Time:	
Total Depth: (initial) (TIC)	(feet) 30.95	Time: 934	
Total Depth: (after 30 min surge) (TIC)	(feet) N/A	Time:	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 21.88		
Volume of Water in Well:	(gal) 3.56		
Three Well Volumes:	(gal) 10.7		

none detected w/ probe, but NAPL recovered in bailer

Equipment

Probe Type:	Water Level	(Interface)
Surging Method:	Stainless Steel Bailer	
Purging Method:	(Solinst Peristaltic)	Electric Submersible
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1" (2")	Other:

Soft Bottom:	Yes	(No)
Sediment Removed	Yes	(No)

Purging Information

N/A

Pump Start time:		Pump End time:	
Duration of Pumping:	(min)		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal)	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
Volume Purged (gal)									
Rate (mL/min)									
Depth to Water (ft.)									
Color									
pH									
Temp. (C)									
Conductivity (mS/cm)									
Turbidity (NTU)									
Notes:									

Sampling Information

Analyses	# N/A	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

NAPL Recovered in bailer, Heavy Sheen and NAPL blebs (black) present in ~~[illegible]~~ water. Water color is dark brown. No odor. Called LR, and will return later.

GE – Fletcher's Paint Milford, NH

Site | Event

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-21C
Oversight Personnel:	N/A	**Date:**	1/29/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	25°, Sunny	**Time In:** 942	**Time Out:** 1350

Well Information

Depth to Water: (initial) (TIC)	(feet) 9.62	Time: 1050	
Depth to Water: (static) (TIC)	(feet) 9.62	Time: 1055	
Depth to Water: (with tubing) (TIC)	(feet) 9.62	Time: 1130	
Depth to Water: (static w/ tubing) (TIC)	(feet) 9.62	Time: 1135	
Depth to Water: (Final) (TIC)	(feet) 9.20	Time: 1340	
Total Depth: (initial) (TIC)	(feet) 30.05	Time: 1108	
Total Depth: (after 30 min surge) (TIC)	(feet) 30.05	Time: 1130	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	Non detected w/ probe
Length of Water Column:	(feet) 20.43		
Volume of Water in Well:	(gal) 3.33		
Three Well Volumes:	(gal) 9.99		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time: 1140		Pump End time: 1340	
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry: Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 1140	2 1155	3 1210	4 1225	5 1240	6 1255	7 1310	8 1325	9 1340
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	9.65	9.66	9.66	9.66	9.66	9.20	9.20	9.20	9.20
Color	lt. brown	clear	clear	clear	clear	clear	clear	clear	clear
pH	8.67	7.78	7.39	7.31	6.90	6.65	6.85	6.50	6.39
Temp. (C)	3.51	3.14	2.32	3.18	2.18	2.79	2.53	2.09	1.44
Conductivity (mS/cm)	0.319	0.317	0.306	0.299	0.303	0.294	0.299	0.295	0.306
Turbidity (NTU)	89.1	42.6	32.0	19.9	14.3	9.83	6.23	5.50	0.88
Notes:									

Sampling Information

Analyses	#	Laboratory
~~SW treatability sample~~ NAPL Sample		
PCBs, VOCs, SVOCs		
Sample ID: MSMW-21C	Sample Time: 1040	
MS/MSD: Yes	No	
Duplicate: Yes	No	
Duplicate ID —	Dup. Time: —	
Chain of Custody Signed By:	JL Lisi	

Problems / Observations

As per e-mail, sample collected from bottom of well w/ bailer
DTW (before sample collected) = 9.61'
DTB = 30.05 (hard)

1030 EPA pos mm. stopped bag

GE – Fletcher's Paint Milford, NH

Site | Event

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-22A
Oversight Personnel:	N/A	**Date:**	2/3/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	20°, cloudy	**Time In:** 757	**Time Out:** 1120

Well Information

Depth to Water: (initial) (TIC)	(feet) 9.71	Time: 759	
Depth to Water: (static) (TIC)	(feet) 9.71	Time: 804	
Depth to Water: (with tubing) (TIC)	(feet) 9.70	Time: 859	
Depth to Water: (static w/ tubing) (TIC)	(feet) 9.70	Time: 859	
Depth to Water: (Final) (TIC)	(feet) 9.71	Time: 1115	
Total Depth: (initial) (TIC)	(feet) 21.45	Time: 804	
Total Depth: (after 30 min surge) (TIC)	(feet) 21.51	Time: 840	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 11.8		
Volume of Water in Well:	(gal) 1.9		
Three Well Volumes:	(gal) 5.77		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time: 915		Pump End time: 1115	
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8 gal	Did well go dry: Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	915	9:30	9:45	10:00	10:15	10:30	10:45	11:00	1115
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	9.71	9.72	9.71	9.71	9.71	9.71	9.71	9.71	9.71
Color	lt. Brown	lt brown	cloudy	cloudy	cloudy	clear	clear	clear	clear
pH	~~7.18~~ 6.80	6.76	6.71	6.54	6.50	6.45	6.41	6.39	6.40
Temp. (C)	6.96	6.23	6.48	6.68	6.54	6.41	6.75	6.86	6.81
Conductivity (mS/cm)	0.240	0.241	0.239	0.236	0.237	0.241	0.239	0.236	0.238
Turbidity (NTU)	583	303	205	146	97.1	77.6	42.7	41.7	38.5
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		STL
Bacteria		ChemServ.

Sample ID: MS/MW-22A		Sample Time:	1115
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID	—	Dup. Time:	—
Chain of Custody Signed By:	Joseph Lisi		

Problems / Observations

NONE

GE – Fletcher's Paint Milford, NH

Site | Event

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	Well ID:	MW-22B
Oversight Personnel:	N/A	Date:	2/3/04
Client / Job Number:	GE/100.02.073	PID (ppm)	0.0
Weather:	20°, cloudy	Time In: 757	Time Out: 1110

Well Information

Depth to Water: (initial) (TIC)	(feet) 9.48	Time: 8:55	
Depth to Water: (static) (TIC)	(feet) 9.48	Time: 810	
Depth to Water: (with tubing) (TIC)	(feet) 9.45	Time: 8:53	
Depth to Water: (static w/ tubing) (TIC)	(feet) 9.45	Time: 858	
Depth to Water: (Final) (TIC)	(feet) 9.54	Time: 1105	
Total Depth: (initial) (TIC)	(feet) 12.21	Time: 8:06	
Total Depth: (after 30 min surge) (TIC)	(feet) 12.40	Time: 840	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 2.92		
Volume of Water in Well:	(gal) 0.5		
Three Well Volumes:	(gal) 1.42		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1"	2" Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time: 905 Pump End time: 1105

Duration of Pumping: (min) 120

Average Pumping Rate: (ml/min) 250 Water-Quality Meter Type: Horiba U-22

Total Volume Removed: (gal) 8 Did well go dry: Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Time Elapsed	1 9:05	2 920	3 9:35	4 9:50	5 10:05	6 10:20	7 10:35	8 10:50	9 11:05
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	9.53	9.53	9.53	9.54	9.54	9.54	9.54	9.54	9.54
Color	Brown	Brown	Brown	cloudy	cloudy	cloudy	cloudy	clear	clear
pH	7.42	6.86	6.75	6.52	6.44	6.40	6.35	6.38	6.30
Temp. (C)	7.21	6.25	6.27	5.90	6.13	6.21	6.33	5.90	6.01
Conductivity (mS/cm)	0.482	0.483	0.514	0.507	0.504	0.500	0.500	0.498	0.494
Turbidity (NTU)	>1100	>1100	511	365	219	176	150	106.1	87.1
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

J:\JDL\GE\developform.doc

Page 1 of 1

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-22C
Oversight Personnel:	~~JOSEPH~~ N/A	**Date:**	1/30/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	15°, Sunny	**Time In:** 0710	**Time Out:** 840

Well Information

Depth to Water: (initial) (TIC)	(feet) 7.47	Time: 714	
Depth to Water: (static) (TIC)	(feet) 7.47	Time: 715	
Depth to Water: (with tubing) (TIC)	(feet) 7.01	Time: 728	
Depth to Water: (static w/ tubing) (TIC)	(feet) 7.01	Time: 733	
Depth to Water: (Final) (TIC)	(feet) DRY	Time: 834	
Total Depth: (initial) (TIC)	(feet) 42.7	Time: 723	
Total Depth: (~~after 30 min surge~~) (TIC)	(feet) 42.7	Time: 838	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 35.23		
Volume of Water in Well:	(gal) 23		
Three Well Volumes:	(gal) 69		

Equipment

Probe Type:	Water Level		Interface
Surging Method:	Stainless Steel Bailer		
Purging Method:	Solinst Peristaltic		Electric Submersible
Tubing Type:	Polyethylene		Teflon lined
Well Diameter:	1"	2"	Other: 4"

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time: 735		Pump End time: 834	
Duration of Pumping:	(min) 50		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) ~50 gal	Did well go dry: Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	7:35	755	810	825					
Volume Purged (gal)	—	—							
Rate (mL/min)	3 gal/min	1 gal/min	1 gal/min	0.5 gal/min					
Depth to Water (ft.)	14.10	21.8	30.31	37.51					
Color	cloudy	clear	clear	clear					
pH	11.42	11.71	11.80	11.76					
Temp. (C)	1.13	1.26	0.44	2.39					
Conductivity (mS/cm)	0.604	0.453	0.420	0.429					
Turbidity (NTU)	39.6	44.2	40.1	40.2					
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

Stickup is approx 0.5' agbs
- Started out at 3 gal/min. WL dropped dramatically
At 7:44, lowered rate to 1 gal/min.
- Having trouble keeping flow rate up.
Well dry at 834.

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-23A
Oversight Personnel:	N/A	**Date:**	1/28/09
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	25°, snow	**Time In:** 940	**Time Out:** 1240

Well Information

Depth to Water: (initial) (TIC)	(feet) 13.61	Time: 1019	
Depth to Water: (static) (TIC)	(feet) 13.61	Time: 1044	
Depth to Water: (with tubing) (TIC)	(feet) 13.61	Time: 1020	
Depth to Water: (static w/ tubing) (TIC)	(feet) 13.61	Time: 1025	
Depth to Water: (Final) (TIC)	(feet) 13.69	Time: 1235	
Total Depth: (initial) (TIC)	(feet) 25.71	Time: 945	
Total Depth: (after 30 min surge) (TIC)	(feet) 25.71	Time: 1015	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 12.1		
Volume of Water in Well:	(gal) 1.9		
Three Well Volumes:	(gal) 5.9		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

DTB (Final) = 25.71

Purging Information

Pump Start time: 1035 Pump End time: 1235

Duration of Pumping: (min) 120

Average Pumping Rate: (ml/min) 250 Water-Quality Meter Type: Horiba U-22

Total Volume Removed: (gal) 8 Did well go dry: Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 1035	2 1050	3 1105	4 1120	5 1135	6 1150	7 1205	8 1220	9 1235
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	13.64	13.64	13.64	13.64	13.64	13.64	13.64	13.64	13.69
Color	lt. Brown	lt. Brown	lt. Brown	lt. Brown	Light Brown	Clear	Clear	clear	Clear
pH	8.42	7.33	6.76	6.56	6.45	6.50	6.49	6.42	6.23
Temp. (C)	4.28	5.07	5.04	5.40	5.15	5.77	6.17	6.17	5.79
Conductivity (mS/cm)	0.335	0.284	0.263	0.243	0.241	0.226	0.233	0.249	0.258
Turbidity (NTU)	323	196	142	91.3	53.5	38.3	38.3	23.0	17.6
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW -23B
Oversight Personnel:		**Date:**	01/22/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	
Weather:	CLOUDY SNOWING	**Time In:** 11:42	**Time Out:**

Well Information

Depth to Water: (initial) (TIC)	(feet) 13.54	Time: 11:49	
Depth to Water: (static) (TIC)	(feet) 13.54	Time: 11:54	
Depth to Water: (with tubing) (TIC)	(feet) 13.60	Time: 12:50	
Depth to Water: (static w/ tubing) (TIC)	(feet) 13.60	Time: 12:55	
Depth to Water: (Final) (TIC)	(feet) 13.71	Time: 1505	
Total Depth: (initial) (TIC)	(feet) 17.53	Time: 11:50	
Total Depth: (after 30 min surge) (TIC)	(feet) 17.53	Time: 12:30	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 3.99		
Volume of Water in Well:	(gal) 0.65		
Three Well Volumes:	(gal) 1.95		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time:	1305	Pump End time:	1505
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 1305	2 1320	3 13:35	4 1350	5 14:05	6 14:20	7 14:35	8 14:50	9 15:05
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	13.72	13.70	13.69	13.70	13.71	13.71	13.69	13.71	13.71
Color	Dk. Brown	H. Brown	Almost Clear	clear	clear	clear	clear	clear	clear
pH	6.31	6.41	6.48	6.37	6.34	6.31	6.23	6.33	6.27
Temp. (C)	4.77	5.46	5.08	5.48	5.49	5.31	4.73	3.75	3.98
Conductivity (mS/cm)	0.182	0.169	0.178	0.196	0.197	0.209	0.212	0.219	0.226
Turbidity (NTU)	>1100	434	89.3	36.6	29.8	22.0	18.9	19.3	15.4
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW -23C
Oversight Personnel:		**Date:**	01/28/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	Cloudy 15 F	**Time In:** 8:00	**Time Out:** 1200

Well Information

Depth to Water: (initial) (TIC)	(feet) 13.745	Time: 8:00
Depth to Water: (static) (TIC)	(feet) 13.74	Time: 8:05
Depth to Water: (with tubing) (TIC)	(feet) 13.75	Time: 8:14
Depth to Water: (static w/ tubing) (TIC)	(feet) 13.75	Time: 8:20
Depth to Water: (Final) (TIC)	(feet) 14.48	Time: 11:48
Total Depth: (initial) (TIC)	(feet) 45.02	Time: 8:02
Total Depth: (Final) ~~(after 30 min surge)~~ (TIC)	(feet) 45.02	Time: 11:50
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:
Length of Water Column:	(feet) 31.28	
Volume of Water in Well:	(gal) 20.42	
Three Well Volumes:	(gal) 61.27	

Equipment

Probe Type:	(Water Level)	Interface	
Surging Method:	Stainless Steel Bailer		
Purging Method:	Solinst Peristaltic	(Electric Submersible)	
Tubing Type:	(Polyethylene)	Teflon lined	
Well Diameter:	1" 2"	Other: (4)	

Soft Bottom:	Yes	(No)
Sediment Removed	Yes	(No)

Purging Information

Pump Start time: 855 Pump End time: 1153

Duration of Pumping: (min) ~180

Average Pumping Rate: ~~(gal/min)~~ ~~250~~ 2.25 Water-Quality Meter Type: Horiba U-22

Total Volume Removed: (gal) ~550 gal Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	8:55 (1)	9:10 (2)	9:25 (3)	9:40 (4)	9:55 (5)	10:10 (6)	10:25 (7)	10:40 (8)	10:55 (9)
Volume Purged (gal)	—								
Rate ~~(ml/min)~~ (Gal/min)	1.5 gpm	1.5 gpm	3 gpm	3 gpm	3 gpm	3 gpm	3 gpm	3 gpm	3 gpm
Depth to Water (ft.)	14.02	13.95	14.29	14.45	14.48	14.50	14.49	14.49	14.50
Color	clear	clear	clear	clear	clear	clear	clear	clear	clear
pH	7.82	7.0	6.91	6.96	6.61	6.30	6.56	6.46	6.39
Temp. (C)	7.31	7.99	~~0.806~~ 7.67	8.14	8.31	7.90	8.16	8.05	8.02
Conductivity (mS/cm)	1.16	0.96	0.806	0.795	0.851	0.701	0.818	0.895	0.892
Turbidity (NTU)	8.16	4.49	9.41	3.44	1.45	2.30	4.62	0.32	0.62
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD: Yes	No	
Duplicate: Yes	No	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW - 23C
Oversight Personnel:		**Date:**	01/28/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	
Weather:		**Time In:**	**Time Out:**

Well Information See pg 1

Depth to Water: (initial) (TIC)	(feet)	Time:
Depth to Water: (static) (TIC)	(feet)	Time:
Depth to Water: (with tubing) (TIC)	(feet)	Time:
Depth to Water: (static w/ tubing) (TIC)	(feet)	Time:
Depth to Water: (Final) (TIC)	(feet)	Time:
Total Depth: (initial) (TIC)	(feet)	Time:
Total Depth: (after 30 min surge) (TIC)	(feet)	Time:
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	Time:
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Three Well Volumes:	(gal)	

Equipment See pg 1

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Schnst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information See pg 1

Pump Start time:		Pump End time:	
Duration of Pumping:	(min)		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal)	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	11:10	11:25	11:40						
Volume Purged (gal)									
Rate (mL/min)	3gpm	3gpm	3gpm						
Depth to Water (ft.)	14.49	14.49	14.48						
Color	clear	clear	clear						
pH	6.19	6.11	6.20						
Temp. (C)	8.19	7.90	7.77						
Conductivity (mS/cm)	0.673	0.680	0.671						
Turbidity (NTU)	1.7	1.2	0.60						
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

11:53 Drillers empty tank, stop pumping

GE – Flëtcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-24A
Oversight Personnel:	N/A	**Date:**	11/23/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	10°, Sunny	**Time In:** 8:26	**Time Out:** 1130

(All measurements taken from TOC, Drillers need to add coupling & Riser extension to well)

Well Information

Depth to Water: (initial) (TOC)	(feet)	13.91	Time: 828
Depth to Water: (static) (TOC)	(feet)	13.91	Time: 833
Depth to Water: (with tubing) (TOC)	(feet)	13.95	Time: 913
Depth to Water: (static w/ tubing) (TOC)	(feet)	13.95	Time: 918
Depth to Water: (Final) (TOC)	(feet)	13.96	Time: 1126
Total Depth: (initial) (TOC)	(feet)	25.07	Time: 830
Total Depth: (after 30 min surge) (TOC)	(feet)	25.07	Time: 900
Depth to NAPL: (TIC) (DNAPL or LNAPL) N/A	(feet)		Time:
Length of Water Column:	(feet)	11.16	
Volume of Water in Well:	(gal)	1.81	
Three Well Volumes:	(gal)	5.4	

Equipment

Probe Type:	Water Level	(Interface)
Surging Method:	Stainless Steel Bailer	
Purging Method:	(Solinst Peristaltic)	Electric Submersible
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1" (2")	Other:

Soft Bottom:	Yes	(No)
Sediment Removed	Yes	(No)

Purging Information

Pump Start time:	923	Pump End time:	1125
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	925	940	955	1010	1025	1040	1055	1110	1125
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	13.95	13.95	13.96	13.96	13.96	13.96	13.96	13.96	13.96
Color	Brown	H. Brown	H. Brown	H. Brown	H. Brown	H. Brown	Clear	Clear	Clear
pH	6.85	6.63	6.53	6.44	6.43	6.44	6.50	6.28	6.41
Temp. (C)	2.22	2.34	2.13	2.72	2.70	3.37	3.42	3.47	3.94
Conductivity (mS/cm)	0.259	0.264	0.258	0.268	0.315	0.299	0.326	0.318	0.321
Turbidity (NTU)	1100	650	340	280	210	120	75	46.8	42.7
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-24B
Oversight Personnel:	~~10°, Sunny~~ NA	**Date:**	1/23/04
Client / Job Number:	GE/100.02.073	**PID (ppm):**	0.0
Weather:	10°, Sunny	**Time In:** 750	**Time Out:** 1100

Well Information

Depth to Water: (initial) (TIC)	(feet)	13.86	Time:	756
Depth to Water: (static) (TIC)	(feet)	13.86	Time:	756
Depth to Water: (with tubing) (TIC)	(feet)	13.84	Time:	841
Depth to Water: (static w/ tubing) (TIC)	(feet)	13.84	Time:	846
Depth to Water: (Final) (TIC)	(feet)	13.86	Time:	1056
Total Depth: (initial) (TIC)	(feet)	16.58	Time:	757
Total Depth: (after 30 min surge) (TIC)	(feet)	16.58	Time:	830
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	NA	Time:	
Length of Water Column:	(feet)	2.72		
Volume of Water in Well:	(gal)	0.44		
Three Well Volumes:	(gal)	1.33		

Equipment

Probe Type:	Water Level	(Interface)
Surging Method:	Stainless Steel Bailer	
Purging Method:	(Solinst Peristaltic)	Electric Submersible
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1" (2")	Other:

Soft Bottom:	Yes	(No)
Sediment Removed	Yes	(No)

Purging Information

Pump Start time:	0835	Pump End time:	1055
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 0	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	0835 (1)	9:10 (2)	9:25 (3)	9:40 (4)	9:55 (5)	10:10 (6)	10:25 (7)	10:40 (8)	10:55 (9)
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	13.87	13.86	13.86	13.86	13.86	13.86	13.86	13.87	13.86
Color	H. Brown	light brown	Cloudy	clear	Clear	Clear	clear	clear	clear
pH	8.74	8.10	7.0	6.07	7.11	6.75	6.61	6.83	6.56
Temp. (C)	0.61	0.60	0.11	1.83	0.09	1.44	0.35	5.25	5.35
Conductivity (mS/cm)	0.239	0.222	0.183	0.161	0.145	0.134	0.125	0.128	0.131
Turbidity (NTU)	534	295	45	17	16	12	6.3	13	8.36
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-24C
Oversight Personnel:		**Date:**	01/29/09
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	Blue Sky 19°F	**Time In:** 8:23	**Time Out:** 1450

Well Information

Depth to Water: (initial) (TIC)	(feet) 14.16	Time: 8:27	
Depth to Water: (static) (TIC)	(feet) 14.18	Time: 8:34	
Depth to Water: (with tubing) (TIC)	(feet) 14.11	Time: 8:46	
Depth to Water: (static w/ tubing) (TIC)	(feet) 14.38	Time: 8:56	
Depth to Water: (Final) (TIC)	(feet) 14.88	Time: 1235	
Total Depth: (initial) (TIC)	(feet) [illegible]	Time: N/A	
Total Depth: (after 30 min surge) (TIC)	(feet) 46.5	Time: 8:30	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 32.34		
Volume of Water in Well:	(gal) 5.2		
Three Well Volumes:	(gal) 15.8		

Equipment

Probe Type:	(Water Level)	Interface	
Surging Method:	Stainless Steel Bailer		
Purging Method:	Solinst Peristaltic	(Electric Submersible)	
Tubing Type:	(Polyethylene)	Teflon lined	
Well Diameter:	1"	(2")	Other:

Soft Bottom:	(Yes)	No
Sediment Removed	Yes	No

Purging Information

Pump Start time: 920		Pump End time: 1445	
Duration of Pumping:	(min) 205		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 550	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 9:20	2 9:35	3 9:50	4 10:05	5 10:20	6 10:35	7 10:50	8 11:05	9 11:20
Volume Purged (gal)	~10gal								
Rate (mL/min)	3gpm	3gpm	3gpm	3gpm	3gpm	3gpm	3gpm	3gpm	3gpm
Depth to Water (ft.)	14.86	14.82	14.84	14.84	14.85	14.85	14.84	14.84	14.85
Color	cloudy	clear	clear	clear	clear	clear	clear	clear	clear
pH	8.04	6.87	6.03	5.94	5.91	5.93	5.87	5.90	5.90
Temp. (C)	4.73	6.50	6.92	7.70	6.43	6.96	7.30	5.99	6.43
Conductivity (mS/cm)	0.492	0.402	0.383	0.376	0.374	0.382	0.379	0.351	0.379
Turbidity (NTU)	100.6	24.3	12.3	8.93	8.55	8.13	7.54	7.36	7.10
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

DTW (at start pumping (9:15)) = 14.42

14.86 1st reading

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-24C
Oversight Personnel:		**Date:**	
Client / Job Number:	GE/100.02.073	**PID (ppm)**	
Weather:		**Time In:**	**Time Out:**

Well Information See Pg 1

Depth to Water: (initial) (TIC)	(feet)	Time:
Depth to Water: (static) (TIC)	(feet)	Time:
Depth to Water: (with tubing) (TIC)	(feet)	Time:
Depth to Water: (static w/ tubing) (TIC)	(feet)	Time:
Depth to Water: (Final) (TIC)	(feet)	Time:
Total Depth: (initial) (TIC)	(feet)	Time:
Total Depth: (after 30 min surge) (TIC)	(feet)	Time:
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	Time:
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Three Well Volumes:	(gal)	

Equipment See Pg 1

Probe Type:	Water Level		Interface
Surging Method:	Stainless Steel Bailer		
Purging Method:	Solinst Peristaltic		Electric Submersible
Tubing Type:	Polyethylene		Teflon lined
Well Diameter:	1"	2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information See Pg 1

Pump Start time:		Pump End time:	
Duration of Pumping:	(min)		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal)	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	11:35	11:50	12:05	12:20	12:35	14:45			
Volume Purged (gal)									
Rate (mL/min)	3gpm	3gpm	3gpm	5gpm	5gpm	5gpm			
Depth to Water (ft.)	14.85	14.85	14.85	14.89	14.88	14.82			
Color	clear	clear	clear	clear	clear	clear			
pH	5.90	5.91	5.84	6.06	5.94	5.94			
Temp. (C)	6.50	5.29	5.25	4.18	5.40	3.12			
Conductivity (mS/cm)	0.393	0.388	0.383	0.403	0.472	0.400			
Turbidity (NTU)	7.0	7.49	6.89	7.60	7.15	12.5			
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

Note Pumping at 3 gpm until 12:05
increase rate to 5gpm
Pump stop 12:35 550 gallons removed
14:35 pumping again at 5gpm
~~[illegible]~~ this WL was 14.15
14:39 - 14.70 | 14:44 - 14.82
14:41 - 14.79

J:\JDL\GE\developform.doc

Draft for EPA Review

Off-Site Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-5A
Oversight Personnel:	NA	**Date:**	1/17/03
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	Sunny, 25°	**Time In:**	1420 **Time Out:**

Well Information

Depth to Water: (initial) (TIC)	(feet) 7.17	Time: 1426	
Depth to Water: (static) (TIC)	(feet) 7.17	Time: 1433	
Depth to Water: (with tubing) (TIC)	(feet) 7.21	Time: 1510	
Depth to Water: (static w/ tubing) (TIC)	(feet) 7.20	Time: 1515	
Depth to Water: (Final) (TIC)	(feet) 7.21	Time:	
Total Depth: (initial) (TIC)	(feet) 55.11	Time: 1430	
Total Depth: (after 30 min surge) (TIC)	(feet) 55.12	Time: 1516	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) NA	Time: —	
Length of Water Column:	(feet) 47.95		
Volume of Water in Well:	(gal) 7.82		
Three Well Volumes:	(gal) 23.4		

Equipment

Probe Type:	Water Level	(Interface)
Surging Method:	Stainless Steel Bailer	
Purging Method:	(Solinst Peristaltic)	Electric Submersible
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1" (2")	Other:

Soft Bottom:	(Yes)	No
Sediment Removed	(Yes)	No

Purging Information

Pump Start time:	1535	Pump End time:	1735
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) ~8 gal	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 1535	2 1545	3 1600	4 1615	5 1630	6 1645	7 1700	8 1715	9 1730
Volume Purged (gal)	—	—	—	—	—	—	—	—	—
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	7.21	7.21	7.21	7.21	7.21	7.21	7.21	7.21	7.21
Color	light brown	light brown	light Brown	light brown	Clear	clear	clear	clear	clear
pH	5.62	6.23	6.31	6.44	6.50	6.50	6.40	6.39	6.41
Temp. (C)	5.01	6.05	4.78	1.57	4.33	4.39	4.38	4.90	4.81
Conductivity (mS/cm)	0.399	0.301	0.283	0.277	0.297	0.275	0.275	0.280	0.273
Turbidity (NTU)	370	450	380	240	130	90	50	34	20
Notes:									

Sampling Information

Analyses	# NA	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

1 gal removed at 1550
2 gal removed at 1605
3 gal removed at 1620
4 gal removed at 1635
5 gal removed at 1650
6 gal removed at 1705
7 gal removed at 1720

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-5BR
Oversight Personnel:	N/A	**Date:**	2/3/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	30°, cloudy	**Time In:** 1538	**Time Out:**

Well Information

Depth to Water: (initial) (TIC)	(feet) 6.29	Time: 1538	
Depth to Water: (static) (TIC)	(feet) 6.29	Time: 1543	
Depth to Water: (with tubing) (TIC)	(feet) 6.30	Time: 10:13	
Depth to Water: (static w/ tubing) (TIC)	(feet) 6.30	Time: 10:18	
Depth to Water: (Final) (TIC)	(feet) 6.30	Time:	
Total Depth: (initial) (TIC)	(feet) 13.17	Time: 1540	
Total Depth: (after 30 min surge) (TIC)	(feet) 13.18	Time: 1600	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 6.89		
Volume of Water in Well:	(gal) 1.1		
Three Well Volumes:	(gal) 3.4		

Equipment

Probe Type:	Water Level	Interface	
Surging Method:	Stainless Steel Bailer		
Purging Method:	Solinst Peristaltic	Electric Submersible	
Tubing Type:	Polyethylene	Teflon lined	
Well Diameter:	1"	2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time:	1615	Pump End time:	1815
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 16:15	2 16:30	3 16:45	4 17:00	5 17:15	6 1730	7 1745	8 1800	9 1815
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	6.31	6.31	6.30	6.30	6.30	6.30	6.30	6.30	6.30
Color	Brown	Brown	dark brown	cloudy	clear	clear	Clear	Clear	Clear
pH	6.34	6.08	6.20	6.34	6.24	6.21	6.27	6.38	6.24
Temp. (C)	6.68	7.87	7.95	6.33	8.63	7.31	6.37	6.54	6.51
Conductivity (mS/cm)	0.101	0.110	0.123	0.129	0.135	0.136	0.142	0.145	0.152
Turbidity (NTU)	>1100	>1100	403	135	56	30.4	28.4	21.8	20.2
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-8A
Oversight Personnel:	N/A	**Date:**	1/30/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	20°, sunny	**Time In:** 900	**Time Out:** 1200

Well Information

Depth to Water: (initial) (TIC)	(feet) 2.69	Time: 915	
Depth to Water: (static) (TIC)	(feet) 2.69	Time: 920	
Depth to Water: (with tubing) (TIC)	(feet) 2.81	Time: 944	
Depth to Water: (static w/ tubing) (TIC)	(feet) 2.81	Time: 949	
Depth to Water: (Final) (TIC)	(feet) 3.08	Time: 1150	
Total Depth: (initial) (TIC)	(feet) 27.09	Time: 0917	
Total Depth: (after 30 min surge) (TIC)	(feet) 27.50	Time: 940	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 24.81		
Volume of Water in Well:	(gal) 4.04		
Three Well Volumes:	(gal) 12.1		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

DTB (from 1) = 27.50

Purging Information

Pump Start time: 950		Pump End time: 1150	
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) ~8	Did well go dry: Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 950	2 1005	3 1020	4 1035	5 1050	6 1105	7 1120	8 1135	9 1150
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08
Color	Dk. Brown	Dk. Brown	Dk. Brown	lt. Brown	lt. Brown	lt. Brown	Clear	Clear	Clear
pH	6.51	6.26	6.15	6.03	5.96	5.98	5.98	6.00	6.02
Temp. (C)	4.59	5.17	5.30	5.17	3.72	5.26	5.23	5.21	5.24
Conductivity (mS/cm)	0.147	0.163	0.165	0.160	0.170	0.176	0.176	0.179	0.182
Turbidity (NTU)	>1100	>1100	>1100	>1100	798	498	123	428	40.2
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:** MW-8B	
Oversight Personnel:		**Date:** 01/30/04	
Client / Job Number:	GE/100.02.073	**PID (ppm)** 0.0	
Weather:	Sun Sky 19°F	**Time In:** 8:00	**Time Out:** 1130

Well Information

Depth to Water: (initial) (TIC)	(feet) 2.96	Time: 8:19	
Depth to Water: (static) (TIC)	(feet) 2.96	Time: 8:25	
Depth to Water: (with tubing) (TIC)	(feet) 3.06	Time: 9:13	
Depth to Water: (static w/ tubing) (TIC)	(feet) 3.09	Time: 9:17	
Depth to Water: (Final) (TIC)	(feet) 3.12	Time: 1120	
Total Depth: (initial) (TIC)	(feet) 11.93	Time: 8:29	
Total Depth: (after 30 min surge) (TIC)	(feet) 11.94	Time: 900	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time:	
Length of Water Column:	(feet) 8.98		
Volume of Water in Well:	(gal) 1.5		
Three Well Volumes:	(gal) 4.39		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time: 920		Pump End time: 1120	
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	9:20 (1)	9:35 (2)	9:50 (3)	10:05 (4)	10:20 (5)	10:35 (6)	10:50 (7)	11:05 (8)	11:20 (9)
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	3.09	3.10	3.11	3.11	3.11	3.12	3.12	3.12	3.12
Color	Brown	light Brown cloudy	clear	clear	clear	clear	clear	clear	clear
pH	8.71	7.75	7.07	6.34	6.39	6.25	6.13	6.22	6.27
Temp. (C)	0.16	2.29	2.35	3.10	4.39	4.45	2.60	2.86	4.32
Conductivity (mS/cm)	0.265	0.173	0.141	0.134	0.136	0.135	0.134	0.133	0.133
Turbidity (NTU)	71100	655	99.8	463	22.0	16.0	24.9	11.7	20.1
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD: Yes	No	
Duplicate: Yes	No	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-10A
Oversight Personnel:	NA	**Date:**	11/20/03
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:		**Time In:** 8:54	**Time Out:**

Well Information

Depth to Water: (initial) (TIC)	(feet) 7.45	Time: 855	
Depth to Water: (static) (TIC)	(feet) 7.45	Time: 900	
Depth to Water: (with tubing) (TIC)	(feet) 7.47	Time: 943	
Depth to Water: (static w/ tubing) (TIC)	(feet) 7.47	Time: 948	
Depth to Water: (Final) (TIC)	(feet) 7.48	Time: 1222	
Total Depth: (initial) (TIC)	(feet) 33.85	Time: 855	
Total Depth: (after 30 min surge) (TIC)	(feet) 33.88	Time: 938	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) NA	Time:	
Length of Water Column:	(feet) 26.43		
Volume of Water in Well:	(gal) 4.3		
Three Well Volumes:	(gal) 12.9		

Equipment

Probe Type:	(Water Level)	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	(Solinst Peristaltic)	Electric Submersible
Tubing Type:	(Polyethylene)	Teflon lined
Well Diameter:	1" (2")	Other:

Soft Bottom:	(Yes)	No
Sediment Removed	(Yes)	No

Total Depth (Final) = 33.85

Purging Information

Pump Start time: 950 Pump End time: 1220

Duration of Pumping: (min) 150

Average Pumping Rate: (ml/min) 250 Water-Quality Meter Type: Horiba U-22

Total Volume Removed: (gal) ~29.5 gal Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 950	2 1005	3 1020	4 1035	5 1050	6 11:05	7 11:20	8 11:35	9 11:50
Volume Purged (gal)	–	–	–	–	–	–	–	–	–
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48
Color	light Brn	light brn	light brn	light Brown	light Brown	light Gray	light Gray	clear	almost clear
pH	7.56	7.03	6.83	6.79	6.70	6.34	6.40	6.55	6.59
Temp. (C)	0.87	0.74	2.30	4.17	4.56	4.08	4.44	4.13	4.35
Conductivity (mS/cm)	0.155	0.161	0.155	0.156	0.161	0.167	0.168	0.17	0.168
Turbidity (NTU)	700	1100	600	350	210	130	85	70	50
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample	NA	
Sample ID:	Sample Time:	
MS/MSD: Yes	No	
Duplicate: Yes	No	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

1gal removed at 1005
2gal removed at 1021
3gal removed at 1036
4gal removed at 1052
5gal removed at 1107
6gal removed at 1123
7gal removed at 1139
8gal removed at 1154
9gal removed at 1209

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-10A
Oversight Personnel:		**Date:**	
Client / Job Number:	GE/100.02.073	**PID (ppm)**	
Weather:		**Time In:**	**Time Out:**

Well Information

See pg 1

Depth to Water: (initial) (TIC)	(feet)	Time:
Depth to Water: (static) (TIC)	(feet)	Time:
Depth to Water: (with tubing) (TIC)	(feet)	Time:
Depth to Water: (static w/ tubing) (TIC)	(feet)	Time:
Depth to Water: (Final) (TIC)	(feet)	Time:
Total Depth: (initial) (TIC)	(feet)	Time:
Total Depth: (after 30 min surge) (TIC)	(feet)	Time:
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	Time:
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Three Well Volumes:	(gal)	

Equipment

Probe Type:	Water Level		Interface
Surging Method:	Stainless Steel Bailer		
Purging Method:	Solinst Peristaltic		Electric Submersible
Tubing Type:	Polyethylene		Teflon lined
Well Diameter:	1"	2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time:		Pump End time:	
Duration of Pumping:	(min)		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal)	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	1205	1220							
Volume Purged (gal)	—	—							
Rate (mL/min)	250	250							
Depth to Water (ft.)	7.48	7.48							
Color	clear	clear							
pH	6.61	6.57							
Temp. (C)	4.75	4.65							
Conductivity (mS/cm)	0.171	0.171							
Turbidity (NTU)	45	39							
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-10B
Oversight Personnel:	NA	**Date:**	1/24/09
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	10°, sunny	**Time In:** 1055	**Time Out:** 1400

Well Information

Depth to Water: (initial) (TIC)	(feet) 5.39	Time: 1058	
Depth to Water: (static) (TIC)	(feet) 5.39	Time: 1103	
Depth to Water: (with tubing) (TIC)	(feet) 5.92	Time: 1149	
Depth to Water: (static w/ tubing) (TIC)	(feet) 5.92	Time: 1154	
Depth to Water: (Final) (TIC)	(feet) 6.09	Time: 1402	
Total Depth: (initial) (TIC)	(feet) 11.71	Time: 1400	
Total Depth: (after 30 min surge) (TIC)	(feet) 15.75	Time: 1127	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) NA	Time:	
Length of Water Column:	(feet) 9.83		
Volume of Water in Well:	(gal) 1.6		
Three Well Volumes:	(gal) 4.8		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Total Depth (Final) 15.75

Purging Information

Pump Start time:	1200	Pump End time:	1400
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) ~8gal	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	1200	1215	1230	1245	1300	1315	1330	1345	1400
Volume Purged (gal)	—	—	—	—	—	—	—	—	—
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	6.08	6.08	6.08	6.09	6.08	6.08	6.08	6.08	6.09
Color	clear	clear	clear	clear	clear	clear	clear	clear	clear
pH	6.20	6.25	6.33	6.40	6.42	6.27	6.27	6.27	6.34
Temp. (C)	2.18	2.37	1.73	1.48	0.64	2.02	2.44	2.40	2.33
Conductivity (mS/cm)	0.190	0.193	0.193	0.192	0.193	0.188	0.191	0.190	0.191
Turbidity (NTU)	4.33	6.20	4.35	3.71	4.73	4.29	3.54	3.20	4.42
Notes:									

Sampling Information

Analyses	# NA	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

Organic odor during removal of sediment

1gal removed at 1215

2gal removed at 1231

3gal removed at 1246

4gal removed at 1302

5gal removed at 1317

6gal removed at 1333

7gal removed at 1348

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-10C
Oversight Personnel:	N/A	**Date:**	1/20/04 - 1/21/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	10°, Sunny	**Time In:** 1470	**Time Out:** ~~1430~~ 1700

Well Information

Depth to Water: (initial) (TIC)	(feet) 6.90	Time: 1430	
Depth to Water: (static) (TIC)	(feet) 6.90	Time: 1435	
Depth to Water: (with tubing) (TIC)	(feet)	Time:	See pg. 2
Depth to Water: (static w/ tubing) (TIC)	(feet)	Time:	
Depth to Water: (Final) (TIC)	(feet)	Time:	
Total Depth: (initial) (TIC)	(feet) 50.25	Time: 1432	
Total Depth: (after 30 min surge) (TIC)	(feet) 52.03	Time: 1614	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) NA	Time:	
Length of Water Column:	(feet)		
Volume of Water in Well:	(gal)		
Three Well Volumes:	(gal)		

Equipment

Probe Type:	(Water Level)	Interface	
Surging Method:	Stainless Steel Bailer		
Purging Method:	(Solinst Peristaltic) +	(Electric Submersible)	
Tubing Type:	(Polyethylene)	Teflon lined	
Well Diameter:	1"	(2")	Other:

Soft Bottom:	(Yes)	No
Sediment Removed	(Yes)	No

w/ Minityphoon

Purging Information

See pg 2

Pump Start time:		Pump End time:	
Duration of Pumping:	(min)		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal)	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
Volume Purged (gal)									
Rate (mL/min)									
Depth to Water (ft.)									
Color									
pH									
Temp. (C)									
Conductivity (mS/cm)									
Turbidity (NTU)									
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

- Approx. 2' of fine silty sediment at bottom of well. Cannot remove sediment w/ bailer

1550 - Use minityphoon to evacuate silty content
- Water is light gray color, very silty.

1614 - Removed approx. 20 gal from well.
DTW = 31.85
DTB = 52.03' bgs
Return on 1/21/04 to pump well w/ peri pump and take parameters

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-10C
Oversight Personnel:	N/A	**Date:**	1/21/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	~30° Sunny	**Time In:**	0830 **Time Out:** 1150

Well Information

Depth to Water: (initial) (TIC)	(feet)	7.40	Time: 848
Depth to Water: (static) (TIC)	(feet)	7.40	Time: 853
Depth to Water: (with tubing) (TIC)	(feet)	7.35	Time: 856
Depth to Water: (static w/ tubing) (TIC)	(feet)	7.35	Time: 901
Depth to Water: (Final) (TIC)	(feet)	8.61	Time: 1136
Total Depth: (initial) (TIC)	(feet)	52.4	Time: 8:55
Total Depth: (after 30 min surge) (TIC)	(feet)		Time: see pg 1
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	NA	Time:
Length of Water Column:	(feet)	45	
Volume of Water in Well:	(gal)	7.33	
Three Well Volumes:	(gal)	22	

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Final depth to Bottom: 52.4

Purging Information

Pump Start time:	900	Pump End time:	1135
Duration of Pumping:	(min) 150		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) ~10 gal	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	905	920	9:35	9:50	10:05	10:20	10:35	10:50	11:05
Volume Purged (gal)	m 1	m 2	m 2	m 3	m 4	m 5	m 6	m 7	8 m 8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	7.85	8.22	8.66	8.84	8.95	8.99	9.02	8.71	8.54
Color	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
pH	10.95	11.02	11.14	11.24	11.15	11.10	11.02	11.00	10.89
Temp. (C)	3.37	4.10	4.66	4.60	4.88	5.41	5.07	4.81	4.30
Conductivity (mS/cm)	0.297	0.258	0.275	0.293	0.284	0.274	0.269	0.263	0.257
Turbidity (NTU)	349	332	344	313	311	262	226	215	187
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-10C
Oversight Personnel:		**Date:**	
Client / Job Number:	GE/100.02.073	**PID (ppm)**	
Weather:		**Time In:**	**Time Out:**

Well Information See pg 2

Depth to Water: (initial) (TIC)	(feet)	Time:
Depth to Water: (static) (TIC)	(feet)	Time:
Depth to Water: (with tubing) (TIC)	(feet)	Time:
Depth to Water: (static w/ tubing) (TIC)	(feet)	Time:
Depth to Water: (Final) (TIC)	(feet)	Time:
Total Depth: (initial) (TIC)	(feet)	Time:
Total Depth: (after 30 min surge) (TIC)	(feet)	Time:
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	Time:
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Three Well Volumes:	(gal)	

Equipment See pg 2

Probe Type:	Water Level		Interface
Surging Method:	Stainless Steel Bailer		
Purging Method:	Solinst Peristaltic		Electric Submersible
Tubing Type:	Polyethylene		Teflon lined
Well Diameter:	1"	2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information See pg 2

Pump Start time:		Pump End time:	
Duration of Pumping:	(min)		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal)	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1	2	3	4	5	6	7	8	9
	11:20	1135							
Volume Purged (gal)	~~~~9	~~~~10							
Rate (mL/min)	250	250							
Depth to Water (ft.)	8.43	8.69							
Color	cloudy	cloudy							
pH	10.89	10.76							
Temp. (C)	4.96	4.90							
Conductivity (mS/cm)	0.254	0.252							
Turbidity (NTU)	149	142							
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-11A
Oversight Personnel:	N/A	**Date:**	2/2/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	
Weather:	35°, Sunny	**Time In:** 1310	**Time Out:** 1830

Well Information

Depth to Water: (initial) (TIC)	(feet) 27.85	Time: 1403
Depth to Water: (static) (TIC)	(feet) 27.83	Time: 1408
Depth to Water: (with tubing) (TIC)	(feet) 27.95	Time: 1510
Depth to Water: (static w/ tubing) (TIC)	(feet) 27.95	Time: 1515
Depth to Water: (Final) (TIC)	(feet) 28.00	Time: 1520
Total Depth: (initial) (TIC)	(feet) 76.91	Time: 1406
Total Depth: (after 30 min surge) (TIC)	(feet) 76.95	Time: 1435
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) ~~76.91~~ N/A	Time:
Length of Water Column:	(feet) 49.1	
Volume of Water in Well:	(gal) 8.0	
Three Well Volumes:	(gal) 24	

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time: 1520		Pump End time: 1720	
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 1520	2 1535	3 1550	4 1605	5 1620	6 1635	7 1650	8 1705	9 1720
Volume Purged (gal)	1	2	3	4	5	6	7	8	
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
pH	7.92	7.09	6.97	6.90	6.50	6.58	6.60	6.56	6.58
Temp. (C)	9.33	8.45	8.53	8.53	8.54	7.67	7.53	7.50	7.01
Conductivity (mS/cm)	0.151	0.145	0.145	0.147	0.146	0.144	0.145	0.146	0.145
Turbidity (NTU)	38.3	3.33	1.23	1.40	0.97	0.89	0.91	1.30	1.01
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:		Sample Time:	
MS/MSD:	Yes	No	
Duplicate:	Yes	No	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-11B
Oversight Personnel:	N/A	**Date:**	2/2/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	35°, sunny	**Time In:** 1310	**Time Out:** 1730

Well Information

Depth to Water: (initial) (TIC)	(feet)	28.56	Time: 14:07
Depth to Water: (static) (TIC)	(feet)	28.56	Time: 14:10
Depth to Water: (with tubing) (TIC)	(feet)	28.57	Time: 1502
Depth to Water: (static w/ tubing) (TIC)	(feet)	28.57	Time: 1507
Depth to Water: (Final) (TIC)	(feet)	28.58	Time: 1710
Total Depth: (initial) (TIC)	(feet)	34.52	Time: 14:08
Total Depth: (after 30 min surge) (TIC)	(feet)	34.52	Time: 14:35
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:
Length of Water Column:	(feet)	5.96	
Volume of Water in Well:	(gal)	0.97	
Three Well Volumes:	(gal)	2.9	

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Purging Information

Pump Start time:	1510	Pump End time:	1710
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet

Time Elapsed	1 15:10	2 15:25	3 15:40	4 15:55	5 16:10	6 16:25	7 16:40	8 16:55	9 17:10
Volume Purged (gal)	—	1	2	3	4	5	6	7	8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	28.57	28.58	28.57	28.57	28.58	28.58	28.58	28.58	28.57
Color	cloudy	clear	clear	clear	clear	clear	clear	clear	clear
pH	8.14	7.41	7.05	6.85	6.75	6.50	6.58	6.51	6.55
Temp. (C)	11.05	11.49	10.84	10.38	10.65	10.87	10.63	9.90	9.41
Conductivity (mS/cm)	0.144	0.110	0.115	0.128	0.134	0.148	0.143	0.148	0.145
Turbidity (NTU)	112	32.4	18.3	9.16	9.44	2.85	2.38	1.13	1.28
Notes:									

Sampling Information

Analyses	#	Laboratory
GW treatability sample		

Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-25B
Oversight Personnel:	N/A	**Date:**	1/21/03
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	20°, sunny	**Time In:**	1315 **Time Out:** 1620

Well Information

Depth to Water: (initial) (TIC)	8.59	(feet)	Time: 1315
Depth to Water: (static) (TIC)	8.59	(feet)	Time: 13:21
Depth to Water: (with tubing) (TIC)	8.61	(feet)	Time: 14:11
Depth to Water: (static w/ tubing) (TIC)	8.61	(feet)	Time: 14:13
Depth to Water: (Final) (TIC)	8.60	(feet)	Time: 1620
Total Depth: (initial) (TIC)	15.86	(feet)	Time: 13:17
Total Depth: (after 30 min surge) (TIC)	15.86	(feet)	Time: 1400
Depth to NAPL: (TIC) (DNAPL or LNAPL)	NA	(feet)	Time:
Length of Water Column:	7.27	(feet)	
Volume of Water in Well:	1.2	(gal)	
Three Well Volumes:	3.55	(gal)	

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

Final DTB = 15.86

Purging Information

Pump Start time:	1412	Pump End time:	1620
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) ~8	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 14:15	2 14:30	3 14:50	4 15:05	5 15:20	6 15:35	7 15:50	8 16:05	9 16:20
Volume Purged (gal)	~~1~~	~~1~~ 1	~~2~~ 2	~~3~~ 3	~~4~~ 4	~~5~~ 5	~~6~~ 6	~~7~~ 7	~~8~~ 8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	8.61	8.60	8.60	8.60	8.60	8.60	8.60	8.60	8.60
Color	Brown	Brown	Light Brown	Light Brown	Light Brown	Cloudy	Cloudy	almost clear	Clear
pH	8.97	6.81	6.61	6.54	6.42	7.90	6.86	6.76	6.31
Temp. (C)	8.62	7.39	7.74	7.25	6.94	7.57	6.53	6.52	5.33
Conductivity (mS/cm)	0.288	0.269	0.259	0.271	0.280	0.286	0.294	0.290	0.290
Turbidity (NTU)	>1100	>1100	662	303	122	83.7	56.7	50.6	46.7
Notes:									

Sampling Information

Analyses	# N/A	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

MONITORING WELL DEVELOPMENT/SPECIFIC CAPACITY LOG

BBL Personnel:	Joe Lisi/Ricardo Jaimes	**Well ID:**	MW-25 C
Oversight Personnel:	N/A	**Date:**	11/21/04
Client / Job Number:	GE/100.02.073	**PID (ppm)**	0.0
Weather:	20°, Sunny	**Time In:** 1250	**Time Out:** 1605

Well Information

Depth to Water: (initial) (TIC)	(feet)	8.61	Time:	1254
Depth to Water: (static) (TIC)	(feet)	8.61	Time:	1259
Depth to Water: (with tubing) (TIC)	(feet)	8.60	Time:	1350
Depth to Water: (static w/ tubing) (TIC)	(feet)	8.60	Time:	1355
Depth to Water: (Final) (TIC)	(feet)	8.99	Time:	1600
Total Depth: (initial) (TIC)	(feet)	39.24	Time:	1255
Total Depth: (after 30 min surge) (TIC)	(feet)	39.47	Time:	1340
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	
Length of Water Column:	(feet)	30.87		
Volume of Water in Well:	(gal)	5.03		
Three Well Volumes:	(gal)	15		

Equipment

Probe Type:	Water Level	Interface
Surging Method:	Stainless Steel Bailer	
Purging Method:	Solinst Peristaltic +	Electric Submersible
Tubing Type:	Polyethylene	Teflon lined
Well Diameter:	1" 2"	Other:

Soft Bottom:	Yes	No
Sediment Removed	Yes	No

~~Total~~ DTB (Final) = ~~39.47~~

Purging Information

Pump Start time:	1358	Pump End time:	1600
Duration of Pumping:	(min) 120		
Average Pumping Rate:	(ml/min) 250	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) ~8 gal	Did well go dry:	Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Time Elapsed	1 1400	2 1415	3 1430	4 1445	5 1500	6 1515	7 1530	8 1545	9 1600
Volume Purged (gal)	~~1~~	~~1~~ 1	~~2~~ 2	~~3~~ 3	~~4~~ 4	~~5~~ 5	~~6~~ 6	~~7~~ 7	~~8~~ 8
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	8.95	8.99	8.99	8.99	8.99	8.99	8.99	8.99	8.99
Color	Very light brown	Clear	clear	clear	clear	clear	clear	clear	clear
pH	12.20	12.33	12.25	12.08	11.13	8.72	7.83	7.50	7.51
Temp. (C)	7.20	6.70	7.06	7.29	6.68	6.41	7.29	7.01	6.83
Conductivity (mS/cm)	1.66	1.41	1.15	0.824	0.552	0.517	0.~~495~~512	0.~~495~~514	0.513
Turbidity (NTU)	207	135	114	109	102.2	91.4	81.0	89.5	41.7
Notes:									

Sampling Information

Analyses	# N/A	Laboratory
GW treatability sample		
Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

Pump w/ minityphoon to remove sediment at bottom of hole.
Start pump at 1313. Water light gray with silty sediment
~5 gals removed at 13:20.
DTB (after pumping) = 39.47

Draft for EPA Review

Groundwater Sampling Logs

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Draft for EPA Review

Elm Street Area Monitoring Wells

BBL®

BLASLAND, BOUCK & LEE, INC.

engineers, scientists, economists

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blosland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Clear Sunny - 13°-20°

Well ID: MW-1A
Date: 02-16-04
FID (ppm) Ø.
Time In: 11:45 Time Out: 14:30

Well Information

2/13/04 Depth to Water: (Initial) (TIC)	(feet) 28.49	Time: 1020	
Depth to Water: (with equipment) (TIC)	(feet) 28.51	Time: 12:05	
Depth to Water: (Final) (TIC)	(feet) 28.51	Time: 1300	
1/22/04 Total Depth: (TIC)	(feet) 52.00	Time: 1325	
Total Depth: (TIC)	(feet) —	Time: —	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 23.49		
Volume of Water in Well:	(gal) 3.83		

Equipment

Probe Type: Solinst Water Level Interface ✓
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 12:10 Pump End time: 13:0 (Sampled)
Duration of Pumping: (min) 50
Average Pumping Rate: (ml/min) 100 Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell
Total Volume Removed: (gal) 0.2 Did well go dry: Yes ☐ No ☑ Hach 2100P (Turb)

Time Elapsed min.s	12:20 1 Ø	12:25 2 5	12:30 3 10	12:35 4 15	12:40 5 20	12:45 6 25	12:50 7 30	12:55 8 35	13:00 9 40
Volume Purged (~~gal~~) mL	Ø	100	200	300	400	500	600	700	800
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	28.51	28.51	28.51	28.51	28.51	28.51	28.51	28.5	28.51
Color	OPAQUE	OPAQUE	OPAQUE	clear	clear	clear	clear	clear	clear
Temp ©	8.67°	8.78	8.88	8.86	8.85	8.72	9.06	9.08	9.10
pH	5.83	5.83	5.82	5.79	5.81	5.80	5.94	5.92	5.80
Conductivity (mS/cm)	Ø.291	Ø.292	Ø.293	Ø.294	Ø.294	Ø.294	Ø.292	Ø.292	Ø.292
ORP (mV)	-312.7	-320.2	-340.6	-356.8	-364.2	-368.4	-372.5	-374.5	-378.8
DO (mg/l)	4.99	3.79	2.20	1.26	1.14	Ø.74	Ø.61	Ø.56	Ø.55
Turbidity (NTU)	32	25	21	15	12	8	6	4	4
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: ESMW01A(W)	Sample Time: 13:00	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: (RDB)		

Observations

- Installed Bladder Pump @ ~47' (TIC) on 2/13/04
- Initial Purge water cloudy, No odor, No Sediment, No Color/OPAQUE
- End Purge water clear, no sediment No color, No odor.

RAC Coolers Rinse Blank RB021604 USING DEDICATED BLADDER PUMP, LAB PROVIDED DI H2O & GLASSWARE @ 1700

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: DJS
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Sunny
Well ID: MW-1B
Date: 2/16/04
FID (ppm) 0.0
Time In: 1145 **Time Out:** 1430

Well Information

2/12/04	Depth to Water: (initial) (TIC)	(feet) 28.87	Time: 1025
2/16/04	Depth to Water: (with equipment) (TIC)	(feet) 28.85	Time: 1152
	Depth to Water: (Final) (TIC)	(feet)	Time:
	Total Depth: (TIC)	(feet) N/A	Time: N/A
1/22/04	Total Depth: (TIC)	(feet) 32.25	Time: 0920
	Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A
	Length of Water Column:	(feet) 3.4'	
	Volume of Water in Well:	(gal) 0.6 gal	

Equipment

Probe Type:	Water Level ☐ Interface
Purging Method:	Bladder Pump ☒ Other ☐
Tubing Type:	Polyethylene ☐ Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1220 Pump End time:
Duration of Pumping: (min)
Average Pumping Rate: (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / Hach 2100P Turbidimeter
Total Volume Removed: (gal) Did well go dry: Yes ☐ No ☐

Time Elapsed	1220 1 0	1225 2 5	1230 3 10	1240 4 20	1250 5 30	1300 6 40	1310 7 50	1320 8 60	9
Volume Purged (gal)	Initial	500 ml	1000 ml	2000 ml	3000 ml	4000 ml	5000 ml	6000 ml	
Rate (mL/min)	100	100	100	100	100	100	100	100	
Depth to Water (ft.)	29.20	29.30	29.30	29.30	29.30	29.30	29.30	29.30	
Color	Colorless	Orange Brown	Orange Brown	Orange Brown	Orange Brown	Orange Brown	Orange Brown	Orange Brown	
Temp °	7.32	9.99	9.73	9.48	10.12	10.77	7.48	7.95	
pH	6.61	6.37	6.35	6.36	6.33	6.34	6.32	6.37	
Conductivity (mS/cm)	2.702	2.734	2.738	2.735	2.735	2.745	2.787	2.726	
ORP (mV)	268.6	190.1	185.4	166.5	160.9	147.6	146.4	141.3	
DO (mg/l)	16.18	5.34	5.16	4.56	3.84	3.76	4.63	4.29	
Turbidity (NTU)	161	807	790	672	323	377	395	485	
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: ESMW1B GW	Sample Time:	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: N/A		

Observations

Installed Bladder pump @ ~31' (TIC) on 2/13/04
* @ ~1330, Bladder pump flow rate continued slowed & eventually stopped. Removed pump. Pump ~1/4 full of fines. Need to clean pump, TM & remove fines from bottom well & setup/sample @ later date.

– Tried removing fines from bottom of well w/ submersible mini typhoon pump. Removed ~2" in bottom of 5 gallon bucket of fines from well but appeared no change. Well either damaged or fines coming through screen.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: BB
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Sunny, 20°F

Well ID: MW-1B
Date: 2/17/04
FID (ppm) 0.0
Time In: 1030 Time Out: 1300

Well Information

2/13/04 Depth to Water: (initial) (TIC)	(feet) 28.87	Time: 1025	
Depth to Water: (with equipment) (TIC)	(feet) ~28.90'	Time: 1024	
Depth to Water: (Final) (TIC)	(feet) ~28.90	Time: 1130	
1/22/04 Total Depth: (TIC)	(feet) 32.25	Time: 0910	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 3.35		
Volume of Water in Well:	(gal) 0.5		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1045 Pump End time: 1130 (Sample)
Duration of Pumping: 45 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ flow THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 1.2 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1045 1 Initial	1050 2 5	1055 3 10	1100 4 15	1105 5 20	1110 6 25	1115 7 30	1120 8 35	1125 9 40	1130 45
Volume Purged (gal)	0	500 ml	1000 ml	1500 ml	2000 ml	2500 ml	3000 ml	3500 ml	4000 ml	4500 ml
Rate (mL/min)	100	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	~28.90	~28.90	~28.90	~28.90	~28.90	~28.90	~28.90	~28.90	~28.90	~28.90
Color	colorless	colorless	colorless	colorless	colorless	colorless	colorless	colorless	colorless	colorless
Temp ©	8.29	9.16	9.31	9.39	8.96	8.23	8.07	7.92	8.25	8.24
pH	6.17	6.23	6.28	6.29	6.31	6.31	6.31	6.34	6.34	6.34
Conductivity (mS/cm)	2.862	2.904	2.937	2.950	2.966	2.971	2.981	2.964	2.955	2.945
ORP (mV)	261.6	260.2	259.1	257.9	256.0	256.3	256.6	255.7	254.5	253.7
DO (mg/l)	7.71	6.55	6.10	5.67	5.54	5.88	5.46	5.38	5.30	5.36
Turbidity (NTU)	36	32	20	13	7	6	5	3	3	2
Notes:										

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: ESMW1BGW	Sample Time: 1130	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: N/A		

Observations

- INSTALLED BLADDER PUMP @ ~31' (TIC) ON 2/16/04. (SEE PAGE 1 FOR PROBLEMS PURGING ON 2/16/04) WILL TRY AGAIN NOT USING LOW SUBMERGENCE FEATURE ON BLADDER PUMP CONTROLLER
- INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS
- SAMPLED CLEAR, COLORLESS, ODORLESS

ADC CONTACTS RUSS BIANCHI RB021704 @ 1600 USING DECONTAMINATED BLADDER PUMP, LAB PROVIDES DI H2O & GLASSWARE.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

5' SCREEN

BBL Personnel: (DT)
Oversight Personnel: PAUL YOUNG (USACE)
Client / Job Number: GE/100.02.074
Weather: SUNNY, 35-40°F

Well ID: MW-2AR
Date: 2/23/04
FID (ppm) 0.0
Time In: 1145 Time Out: 1450

Well Information

2/20/04 Depth to Water: (initial) (TIC)	(feet) 25.84	Time: 1027	
Depth to Water: (with equipment) (TIC)	(feet) 25.88	Time: 1151	
Depth to Water: (Final) (TIC)	(feet) 25.96	Time: 1330	
2/4/04 Total Depth: (TIC)	(feet) 32.61	Time: 0900	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 6.73		
Volume of Water in Well:	(gal) 1.1		

Equipment

Probe Type:	(Water Level) Interface
Purging Method:	Bladder Pump ☒ Other ☐
Tubing Type:	Polyethylene ☐ Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1210 Pump End time: 1330 (SAMPLE)
Duration of Pumping: 80 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 4.3 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1210 1 0	1215 2 5	1220 3 10	1225 4 15	1230 5 20	1235 6 25	1240 7 30	1245 8 35	1250 9 40
Volume Purged (gal)	0	1000 ml	2000 ml	3000 ml	4000 ml	5000 ml	6000 ml	7000 ml	8000 ml
Rate (mL/min)	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	25.95	25.96	25.96	25.96	25.96	25.96	25.96	25.96	25.96
Color	COLORLESS	LT BROWN	LT BROWN	LT BROWN	LT BROWN	LT BROWN	LT BROWN	LT BROWN	OPAQUE
Temp °	10.25	10.77	10.80	10.76	10.73	10.76	10.82	10.75	10.71
pH	5.68	5.57	5.58	5.58	5.59	5.59	5.59	5.59	5.58
Conductivity (mS/cm)	0.378	0.385	0.383	0.378	0.378	0.377	0.376	0.378	0.380
ORP (mV)	220.6	220.6	218.6	215.9	214.6	214.0	212.8	212.0	211.7
DO (mg/l)	4.31	3.99	4.15	4.36	4.49	4.67	4.70	4.91	4.94
Turbidity (NTU)	32	82	86	82	83	70	60	55	39
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: PAUL YOUNG (USACE)		
Sample ID: ESMW2ARGW	Sample Time: 1330	
MS/MSD:	Yes ☒	No ☐
Duplicate:	Yes ☒	No ☐
Duplicate ID MWDUP2GW	Dup. Time: —	
Chain of Custody Signed By: (DT)		

Observations

- INSTALLED BLADDER PUMP @ ~30' (TIC) ON 2/20/04
- INITIAL PURGE H2O SLIGHTLY TURBID, OPAQUE, ODORLESS
- SAMPLED CLEAR, COLORLESS, ODORLESS

RDX COLLECTS RINSE BLANK RB022304 @ 1300 USING DEDICATED BLADDER PUMP, LAB PREPARED GLASSWARE: DI H2O

$25.84 - 2.5 = 23.3$ $32.6 - 2.5 = 30.1$

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RSB
Oversight Personnel: Paul Young (USACE)
Client / Job Number: GE/100.02.074
Weather: Sunny, 35-40°F

Well ID: MW-2AR
Date: 2/23/04
FID (ppm) 0.0
Time In: 1145 **Time Out:** 1350

Well Information

2/20/04 Depth to Water: (initial) (TIC)	(feet) 25.84	Time: 1027	
Depth to Water: (with equipment) (TIC)	(feet) 25.88	Time: 1151	
Depth to Water: (Final) (TIC)	(feet) 25.96	Time: 1330	
2/4/04 Total Depth: (TIC)	(feet) 32.61	Time: 0900	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 6.23		
Volume of Water in Well:	(gal) 1.1		

Equipment

Probe Type:	Water Level ☐ Interface
Purging Method:	Bladder Pump ☒ Other ☐
Tubing Type:	Polyethylene ☐ Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1210 Pump End time: 1330 (Sample)

Duration of Pumping: 80 (min)

Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Low Threshold Cell/HACH 2100P Turbidimeter

Total Volume Removed: 4.3 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1255 1 45	1300 2 50	1305 3 55	1310 4 60	1315 5 65	1320 6 70	1325 7 75	1330 8 80	9
Volume Purged (gal)	9000ml	10,000 ml	11,000ml	12,000ml	13,000ml	14,000ml	15,000ml	16,000ml	
Rate (mL/min)	200	200	200	200	200	200	200	200	
Depth to Water (ft.)	25.96	25.96	25.96	25.96	25.96	25.96	25.96	25.96	
Color	OPAQUE	OPAQUE	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	
Temp ©	10.85	10.85	10.85	10.85	10.84	10.83	10.81	10.80	
pH	5.59	5.59	5.59	5.59	5.59	5.59	5.58	5.59	
Conductivity (mS/cm)	0.379	0.379	0.380	0.381	0.381	0.381	0.383	0.382	
ORP (mV)	210.3	209.7	209.5	209.7	208.7	209.3	210.1	207.6	
DO (mg/l)	5.03	5.12	5.15	5.23	5.36	5.35	5.45	5.45	
Turbidity (NTU)	43	34	32	28	31	26	26	25	
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: Paul Young (USACE)		
Sample ID: ES MW2ARGW	Sample Time: 1330	
MS/MSD:	Yes ☒	No ☐
Duplicate:	Yes ☒	No ☐
Duplicate ID MW2DUP2GW	Dup. Time: —	
Chain of Custody Signed By: RSB		

Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG 10' screen

BBL Personnel: DNI
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: Partly Cloudy, 20°F AM

Well ID: MW-2B
Date: 2/24/04
FID (ppm) 0.0
Time In: 0645 Time Out: 0930

Well Information

2/20/04 Depth to Water: (Initial) (TIC)	(feet) 22.48	Time: 1054	
Depth to Water: (with equipment) (TIC)	(feet) 22.59	Time: 0659	
Depth to Water: (Final) (TIC)	(feet) 22.68	Time: 0840	
2/4/04 Total Depth: (TIC)	(feet) 29.05	Time: 1110	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 6.46		
Volume of Water in Well:	(gal) 1.1		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0745 Pump End time: 0840 (Sample)
Duration of Pumping: 55 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ flow through cell / HACH 2100P Turbidimeter
Total Volume Removed: 2.9 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0745 1 0	0750 2 5	0755 3 10	0800 4 15	0805 5 20	0810 6 25	0815 7 30	0820 8 35	0825 9 40
Volume Purged (gal)	0	1000 ml	2000 ml	3000 ml	4000 ml	5000 ml	6000 ml	7000 ml	8000 ml
Rate (mL/min)	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	22.65	22.68	22.68	22.68	22.68	22.68	22.68	22.68	22.68
Color	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless
Temp ©	9.91	10.00	10.01	10.06	10.10	10.17	10.15	10.14	10.16
pH	5.59	5.62	5.63	5.64	5.65	5.65	5.65	5.65	5.65
Conductivity (mS/cm)	0.363	0.359	0.359	0.359	0.360	0.359	0.360	0.360	0.360
ORP (mV)	282.2	282.6	282.7	283.0	283.0	282.9	283.0	282.9	282.6
DO (mg/l)	6.19	6.33	6.35	6.35	6.39	6.40	6.42	6.44	6.47
Turbidity (NTU)	6	4	2	2	2	1	1	1	1
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: ES/MW2B(GW)	Sample Time: 0840	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

- INSTALLED BLADDER PUMP @ ~26' (TIC) ON 2/20/04
- INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS
- READY TO SAMPLE @ 0805, NO OVERSITE ON SITE
- SAMPLE CLEAR, COLORLESS, ODORLESS

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: DJB
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: Partly Cloud, 20°F AM

Well ID: MW-28
Date: 2/24/04
FID (ppm) 0.0
Time In: 0645 **Time Out:** 0930

Well Information

2/20/04	Depth to Water: (initial) (TIC)	(feet)	22.48	Time: 1054
	Depth to Water: (with equipment) (TIC)	(feet)	22.57	Time: 0659
	Depth to Water: (Final) (TIC)	(feet)	22.68	Time: 0840
2/4/04	Total Depth: (TIC)	(feet)	29.05	Time: 1110
	Total Depth: (TIC)	(feet)	N/A	Time: N/A
	Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time: N/A
	Length of Water Column:	(feet)	6.46	
	Volume of Water in Well:	(gal)	1.1	

Equipment

Probe Type: (Water Level) Interface

Purging Method: Bladder Pump ☒ Other ☐

Tubing Type: Polyethylene ☐ Teflon lined ☒

Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0745 Pump End time: 0840 (Sample)

Duration of Pumping: 55 (min)

Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell/ HACH 2100P Turbidimeter

Total Volume Removed: 2.9 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0830 1 45	0835 2 50	0840 3 55	4	5	6	7	8	9
Volume Purged (gal)	9,000 ml	10,000 ml	11,000						
Rate (mL/min)	200	200	200						
Depth to Water (ft.)	22.68	22.68	22.68						
Color	Colorless	Colorless	Colorless						
Temp ©	10.16	10.08	9.99						
pH	5.66	5.66	5.65						
Conductivity (mS/cm)	0.361	0.361	0.362						
ORP (mV)	282.4	282.4	282.3						
DO (mg/l)	6.45	6.44	6.48						
Turbidity (NTU)	1	1	1						
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: ES-MW28-W	Sample Time: 0840	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: DJB		

Observations

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG 10' SCREEN

BBL Personnel: (DSS)
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: PARTY CLOUDY, 30°F

Well ID: MW-3A
Date: 2/24/04
FID (ppm) 0.0
Time In: 0940 Time Out: 1145

Well Information

Depth to Water: (initial) (TIC)	(feet) 14.25	Time: 0940	
Depth to Water: (with equipment) (TIC)	(feet) 14.27	Time: 0957	
Depth to Water: (Final) (TIC)	(feet) 14.29	Time: 1100	
2/4/04 Total Depth: (TIC)	(feet) 44.90	Time: 1300	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 30.63		
Volume of Water in Well:	(gal) 5		

Equipment

Probe Type:	(Water Level)	Interface
Purging Method:	Bladder Pump ☒ Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1010 Pump End time: 1100 (SAMPLE)
Duration of Pumping: 50 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ FLOW THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 2.6 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1010 1 0	1015 2 5	1020 3 10	1030 4 20	1035 5 25	1040 6 30	1050 7 40	1055 8 45	1100 9 50
Volume Purged (gal)	0	1000 ml	2000 ml	4000 ml	5000 ml	6000 ml	8000 ml	9000 ml	10,000 ml
Rate (mL/min)	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	14.29	14.29	14.29	14.29	14.29	14.29	14.29	14.29	14.29
Color	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	COLORLESS	COLORLESS	COLORLESS	COLORLESS
Temp ©	8.14	9.53	9.79	9.82	9.86	9.87	9.75	9.83	9.86
pH	6.04	5.92	5.92	5.94	5.94	5.94	5.93	5.93	5.95
Conductivity (mS/cm)	0.197	0.246	0.250	0.248	0.248	0.248	0.249	0.248	0.249
ORP (mV)	214.3	126.0	83.1	48.2	42.2	42.2	34.4	32.8	31.4
DO (mg/l)	5.16	1.74	0.74	0.54	0.54	0.50	0.45	0.44	0.45
Turbidity (NTU)	177	235	144	45	40	27	9	8	7
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: ESMW3AGW	Sample Time: 1100	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: (DSS)		

Observations

- BLADDER PUMP INSTALLED @ ~40' (TIC) ON 2/24/04
- INITIAL PURGE HAD SLIGHTLY/MODERATELY TURBID, OPAQUE, ODORLESS
- SAMPLES CLEAR, COLORLESS, ODORLESS

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG 10' SCREEN

BBL Personnel: (DAS)
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 30-35°C

Well ID: MW-3B
Date: 2/24/04
FID (ppm) 0.1
Time In: 1145 Time Out: 1500

Well Information

Depth to Water: (initial) (TIC)	(feet) 14.80	Time: 1001	
Depth to Water: (with equipment) (TIC)	(feet) 14.80	Time: 1145	
Depth to Water: (Final) (TIC)	(feet) 14.81	Time: 1400	
2/5/04 Total Depth: (TIC)	(feet) 20.11	Time: 0950	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 5.31		
Volume of Water in Well:	(gal) 0.9		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1150 Pump End time: 1400 (SAMPLE)
Duration of Pumping: 65 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ FLOW THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 3.4 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1150 1 0	1155 2 5	1200 3 10	1205 4 15	1210 5 20	1215 6 25	1220 7 30	1330 8 35	1335 9 40
Volume Purged (gal)	0	1000ml	2000ml	3000ml	4000ml	5000ml	6000ml	7000 ml	8000ml
Rate (mL/min)	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81
Color	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless
Temp ©	8.82	9.66	10.01	9.90	10.03	10.10		9.65	9.63
pH	5.85	5.80	5.80	5.82	5.82	5.83		5.84	5.84
Conductivity (mS/cm)	0.564	0.613	0.629	0.637	0.643	0.647		0.632	0.630
ORP (mV)	4.2	-23.4	-37.1	-46.2	-50.2	-55.5	NA	-24.5	-26.7
DO (mg/l)	5.68	2.23	1.83	1.31	1.16	1.28		1.23	0.74
Turbidity (NTU)	11	36	7	2	3	4		2	1
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: ESMW3BGW	Sample Time: 1400	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: (DAS)		

Observations

- INSTALLED BLADDER PUMP @ 18' (TIC) ON 2/24/04
- INITIAL PURGE H2O CLEAR, COLORLESS, SLIGHT ODOR
- @ 1220, COMPRESSOR BLEW A FUSE. BOUGHT NEW FUSES BUT COMPRESSOR KEPT BLOWING THRU. REPLACED w/ NEW COMPRESSOR @ 1325
- SAMPLED CLEAR, COLORLESS w/ ODOR

RDK COLLECTS RINSE BLANK RB022404 @ 1530 USING DEDICATED BLADDER PUMP, LAB PROVIDED DI H2O & GLASSWARE

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RDB
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 30-35°F

Well ID: MW-3B
Date: 2/24/04
FID (ppm) 0.0
Time In: 1145 Time Out: 1500

Well Information

Depth to Water: (initial) (TIC)	(feet)	14.80	Time:	1001
Depth to Water: (with equipment) (TIC)	(feet)	14.80	Time:	1145
Depth to Water: (Final) (TIC)	(feet)	14.81	Time:	1400
2/5/04 Total Depth: (TIC)	(feet)	20.11	Time:	0850
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	5.31		
Volume of Water in Well:	(gal)	0.9		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1150 Pump End time: 1400 (SAMPLE)
Duration of Pumping: 65 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ FLOW THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 3.4 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1	2	3	4	5	6	7	8	9
	1340 45	1345 50	1350 55	1355 60	1400 65				
Volume Purged (gal)	9000 ml	10,000	11,000	12,000	13,000				
Rate (mL/min)	200	200	200	200	200				
Depth to Water (ft.)	14.81	14.81	14.81	14.81	14.81				
Color	colorless	colorless	colorless	colorless	colorless				
Temp ©	9.66	9.94	9.98	9.97	9.95				
pH	5.85	5.86	5.87	5.87	5.87				
Conductivity (mS/cm)	0.639	0.647	0.652	0.657	0.654				
ORP (mV)	-78.5	-80.1	-81.5	-82.1	-82.3				
DO (mg/l)	0.57	0.48	0.40	0.39	0.39				
Turbidity (NTU)	1	1	1	1	1				
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: ESMW3B(GW)	Sample Time: 1400	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RDB		

Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG 10' SCREEN

BBL Personnel: R. Blasland
Oversight Personnel: Y Yatsevitch (ACE) C. Sprague (EPA)
Client / Job Number: GE/100.02.074
Weather: Partly Cloudy / Sunny 25 °F

Well ID: MW-4A
Date: 02-19-04
FID (ppm) 0.0
Time In: 0650 Time Out: 12:12

Well Information

2/18/04 Depth to Water: (initial) (TIC)	(feet) 11.03	Time: 1516	
Depth to Water: (with equipment) (TIC)	(feet) 10.99	Time: 07:10	
Depth to Water: (Final) (TIC)	(feet) 10.89	Time: 0915	
1/20/04 Total Depth: (TIC)	(feet) 49.75	Time: 1005	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 38.76		
Volume of Water in Well:	(gal) 6.32		

Equipment

Probe Type: Solinist Water Level Interface
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:25 07:40 Pump End time: 09:15
Duration of Pumping: (min) 95
Average Pumping Rate: (ml/min) 100 Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell HACH 2100P TURBIDIMETER
Total Volume Removed: (gal) 2.5 Did well go dry: Yes ☐ No ☑

Time Elapsed (min)	0 1	5 2	10 3	15 4	20 5	25 6	30 7	35 8	40 9
	0755	0800	0805	0810	0815	0820	0825	0830	0835
Volume Purged (gal) ml	0	100	200	300	400	500	600	700	800
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89
Color	white	white	white	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	clear
Temp ©	7.87	8.09	7.95	7.92	7.79	7.51	7.59	7.60	7.58
pH	5.97	5.89	5.89	5.89	5.89	5.88	5.87	5.87	5.87
Conductivity (mS/cm)	0.210	0.210	0.211	0.211	0.211	0.211	0.211	0.211	0.211
ORP (mV)	-298.1	-311.8	-322.4	-333.1	-341.8	-353.6	-349.2	-350.2	-363.5
DO (mg/l)	3.35	2.45	1.85	1.34	1.10	0.87	0.72	0.70	0.63
Turbidity (NTU)	864	466	329	168	91	62	22	19	17
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents	1,4 Dioxane	STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight: Y. YATSEVITCH (ACE) C Sprague (EPA)		
Sample ID: ESMW04A(W)	Sample Time: 09:15	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RDK		

Observations

- INSTALLED BLADDER PUMP @ ~45' (TIC) ON 2/18/04
- 07:30 water Effluent Tubing on pump disconnected, reconnect and Re-start pump.
- Initial Purge water Cloudy, white, No Odor Highly Turbid, no visual Sediment.

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG 10' SCREEN

BBL Personnel: R. Blasland | Well ID: MW-4A
Oversight Personnel: Y. Yatsevitch (ACE) C Sprague (EPA) | Date: 02-19-04
Client / Job Number: GE/100.02.074 | FID (ppm) 0.0
Weather: Mostly Sunny 25° wind chill 19° | Time In: 0650 | Time Out: 12:32

Well Information

2/18/04 Depth to Water: (initial) (TIC)	(feet) ~~11.03~~	Time: 1546	
Depth to Water: (with equipment) (TIC)	(feet) 10.97	Time: 07:10	
Depth to Water: (Final) (TIC)	(feet) 10.96	Time: 10:10	
1/27/04 Total Depth: (TIC)	49.75 (feet) ~~49.75~~	Time: 1005	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 38.76		
Volume of Water in Well:	(gal) 6.32		

Equipment

Probe Type: Solinst | Water Level | Interface ✓
Purging Method: Bladder Pump ☑ | Other ☐
Tubing Type: Polyethylene ☐ | Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ | Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:40 | Pump End time: 09:15
Duration of Pumping: (min) 95
Average Pumping Rate: (ml/min) 100 | Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell HACH 2100P (Turb.)
Total Volume Removed: (gal) 2.5 | Did well go dry: Yes ☐ No ☑

Time Elapsed (mins.)	45 1 08:40	50 2 08:45	55 3 08:50	60 4 08:55	65 5 09:00	70 6 0905	75 7 0910	80 8 0915	9
Volume Purged (gal) mL	900	1000	1100	1200	1300	1400	1500	1600	
Rate (mL/min)	100	100	100	100	100	100	100	100	
Depth to Water (ft.)	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	
Color	clear	clear	clear	clear	clear	clear	clear	clear	
Temp ©	7.45	7.55	7.63	7.73	7.71	7.79	7.68	7.65	
pH	5.87	5.87	5.87	5.88	5.88	5.88	5.88	5.89	
Conductivity (mS/cm)	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	
ORP (mV)	-361.8	-345.1	-367.1	-354.8	-362.8	-378.1	-375.3	~~-375.3~~	
DO (mg/l)	0.58	0.53	0.54	0.51	0.49	0.44	0.43	0.46	
Turbidity (NTU)	12	11	8	8	8	7	8	8	
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents	1,4 Dioxane	STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight:	Y YATSEVITCH (ACE) C. Sprague (EPA)	
Sample ID:	ESMW04AGW	Sample Time: 0915
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID	N/A	Dup. Time: N/A
Chain of Custody Signed By:	BK	

Observations

- INSTALLED BLADDER PUMP @ ~~14.5'~~ 45' (TIC) on 2/18/04

16.48
- 11.32
5.16

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland **Well ID:** MW-4B
Oversight Personnel: Y. YATSEVitch (ACE) C Sprague (EPA) **Date:** 02-19-04
Client / Job Number: GE/100.02.074 **FID (ppm)** 6.0
Weather: Mostly sunny 25° wind chill 15° **Time In:** 06:50 **Time Out:** 12:12

Well Information

Depth to Water: (initial) (TIC)	(feet) 11.32	Time: 15:43	
Depth to Water: (with equipment) (TIC)	(feet) 11.23	Time: 10:20	
Depth to Water: (Final) (TIC)	(feet) 11.23	Time: 11:35	
Total Depth: (TIC) 1/27/04	(feet) 16.48	Time: 10:05	1/27
Total Depth: (TIC) N/A	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 5.16		
Volume of Water in Well:	(gal) Ø.84		

Equipment

Probe Type: Solinst Water Level ☐ Interface ☑
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 10:30 Pump End time: 11:10
Duration of Pumping: (min) 40
Average Pumping Rate: (ml/min) 185 Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell
Total Volume Removed: (gal) 1.03 Did well go dry: Yes ☐ No ☑ 1-Acit 2100P (Turb.)

Time Elapsed mins.	10:35 1 0	10:40 2 5	10:45 3 10	10:30 4 15	10:35 5 20	11:00 6 25	11:05 7 30	11:10 8 35	9
Volume Purged (gal)	Ø	100.	340	520	740	960	1180	1400	
Rate (mL/min)	100	100	240	180	220	220	220	220	
Depth to Water (ft.)	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	
Color	clear	clear	clear	clear	clear	clear	clear	clear	
Temp ©	8.14	9.05	9.15	9.41	8.90	7.95	7.51	7.88	
pH	5.73	5.70	5.68	5.70	5.66	5.68	5.68	5.65	
Conductivity (mS/cm)	Ø.348	Ø.328	Ø.310	Ø.298	Ø.293	Ø.290	Ø.287	Ø.287	
ORP (mV)	-336.7	-336.3	-334.0	-332.6	-333.8	-327.2	-322.2	-318.0	
DO (mg/l)	6.23	3.91	3.27	3.05	2.73	3.38	3.30	3.29	
Turbidity (NTU)	6	3	2	2	1	2	2	2	
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents	1, 4 Dioxane	STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight: Y. YATSEVitch (ACE) C. Sprague (EPA)		
Sample ID: ESMW4B6W	Sample Time: 11:10	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RNB		

Observations

- Installed Bladder pump @ 14.5' (TIC) on 2/4/04
- Initial Purge water clear, no color, no odor, No sediment.
- End Purge water clear, no color, odor or sediment.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: [illegible]
Oversight Personnel: N/A CMR Collects Samples
Client / Job Number: GE/100.02.074
Weather: Mostly Sunny, 25°F

Well ID: MW-4C
Date: 2/19/04
FID (ppm) 0.0
Time In: 0700 **Time Out:** 1000

Well Information

2/18/04 Depth to Water: (Initial) (TIC)	(feet) 10.82	Time: 1547
Depth to Water: (with equipment) (TIC)	(feet) 10.85	Time: 0707
Depth to Water: (Final) (TIC)	(feet) 10.85	Time: 0845
2/4/04 Total Depth: (TIC)	(feet) 55.35	Time: 0900
Total Depth: (TIC)	(feet) N/A	Time: N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A
Length of Water Column:	(feet) 44.5	
Volume of Water in Well:	(gal) 7.25 GAL	

Equipment

Probe Type:	Water Level	Interface	
Purging Method:	Bladder Pump ☒	Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☒	
Well Diameter:	1" ☐	2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0730 Pump End time: 0845 (Sample)
Duration of Pumping: 75 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow through cell / Hach 2100P Turbidimeter
Total Volume Removed: 2 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0730 1 0	0735 2 5	0740 3 10	0745 4 15	0750 5 20	0755 6 25	0800 7 30	0805 8 35	0810 9 40
Volume Purged (gal)	0	500	1000	1500	2000	2500	3000	3500	4000
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	10.85	10.85	10.85	10.85	10.85	10.85	10.85	10.85	10.85
Color	colorless	colorless	colorless	colorless	colorless	colorless	colorless	colorless	colorless
Temp C	7.50	8.46	8.40	8.41	8.60	8.24	8.70	8.63	8.58
pH	6.14	6.03	6.03	6.03	6.03	6.03	6.02	6.03	6.03
Conductivity (mS/cm)	0.132	0.185	0.191	0.196	0.202	0.203	0.205	0.206	0.206
ORP (mV)	99.6	20.7	0.2	-12.9	-24.1	-31.8	-38.6	-43.6	-49.7
DO (mg/l)	5.58	1.06	0.77	0.60	0.47	0.48	0.38	0.34	0.34
Turbidity (NTU)	7	14	13	9	9	9	8	5	5
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample ALSO 1,4 Dioxane	Yes ☒	No ☐
Oversight: N/A CMR Collects Samples		
Sample ID: 25MW4(GW)	Sample Time: 0845	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: [illegible]		

Observations

- Installed Bladder pump @ ~50' (TIC) on 2/18/04
- Initial purge H2O clear, colorless, odorless
- Samples clear, colorless, odorless

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RDB
Oversight Personnel: N/A LMR collects samples
Client / Job Number: GE/100.02.074
Weather: MOSTLY SUNNY, ~25°F

Well ID: MW-4C
Date: 2/18/04
FID (ppm) 0.0
Time In: 0700 Time Out: 1000

Well Information

2/18/04 Depth to Water: (initial) (TIC)	(feet)	10.82	Time:	1510
Depth to Water: (with equipment) (TIC)	(feet)	10.85	Time:	0707
Depth to Water: (Final) (TIC)	(feet)	10.85	Time:	0945
2/4/04 Total Depth: (TIC)	(feet)	55.35	Time:	0900
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	44.5		
Volume of Water in Well:	(gal)	7.25	641	

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0730 Pump End time: 0845 (SAMPLE)
Duration of Pumping: 75 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ flow through cell / HACH 2100P Turbidimeter
Total Volume Removed: 2 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0815 1 45	0820 2 50	0825 3 55	0830 4 60	0835 5 65	0840 6 70	0845 7 75	8	9
Volume Purged (gal)	4500	5000	5500	6000	6500	7000	7500		
Rate (mL/min)	100	100	100	100	100	100	100		
Depth to Water (ft.)	10.85	10.95	10.95	10.95	10.85	10.95	10.85		
Color	colorless	colorless	colorless	colorless	colorless	colorless	colorless		
Temp °	8.53	8.47	8.53	8.54	8.55	8.46	8.46		
pH	6.02	6.03	6.02	6.02	6.03	6.03	6.04		
Conductivity (mS/cm)	0.207	0.205	0.205	0.206	0.206	0.206	0.207		
ORP (mV)	-53.0	-56.0	-59.3	-61.6	-65.0	-65.9	-68.1		
DO (mg/l)	0.32	0.32	0.28	0.27	0.25	0.24	0.25		
Turbidity (NTU)	3	2	2	2	2	2	2		
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample ALSO 1,4 Dioxane	Yes ☒	No ☐
Oversight: NO OVERSITE (LMR collects samples)		
Sample ID: ESMW4CGW	Sample Time: 0845	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RDB		

Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG 10' SCREEN

BBL Personnel: Rich Blasland
Oversight Personnel: D. Lubianez ACE
Client / Job Number: GE/100.02.074
Weather: Partly Cloudy / Sunny 32°-36° (07:15)

Well ID: MW-26A
Date: 02-24-04
PID (ppm) 0.0
Time In: 0655 Time Out: 13:55

Well Information

Depth to Water: (initial) (TIC)	(feet) 24.06	Time: 1106	
Depth to Water: (with equipment) (TIC)	(feet) 24.17	Time: 07:02	
Depth to Water: (Final) (TIC)	(feet) 24.18	Time: 08:40	
1/22/04 Total Depth: (TIC)	(feet) 45.00	Time: 0932	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 20.83		
Volume of Water in Well:	(gal) 3.4		

Equipment

Probe Type: Solinist Water Level ☑ Interface ☑
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:15 Pump End time: 08:40
Duration of Pumping: (min) 85
Average Pumping Rate: (ml/min) 200 Water-Quality Meter Type: YSI MPS556 w/flow through cell / HACH 2100A Turbidimeter
Total Volume Removed: (gal) 3.4 Did well go dry: Yes ☐ No ☑

Time Elapsed MINS.	07:35 1 Ø	07:40 2 5	07:45 3 10	07:50 4 15	07:55 5 20	08:00 6 28	08:05 7 30	08:10 8 35	08:15 9 40
Volume Purged (gal) mL	Ø	1000	2000	3000	4000	5000	6000	7000	8000
Rate (mL/min)	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	24.18	24.18	24.18	24.18	24.18	24.18	24.18	24.18	24.18
Color	OPAQUE	OPAQUE	OPAQUE	LT. OPAQUE	clear	clear	clear	clear	clear
Temp ©	9.86	9.84	9.85	9.83	9.67	9.75	9.82	9.81	9.77
pH	5.79	5.77	5.77	5.78	5.78	5.79	5.79	5.77	5.77
Conductivity (mS/cm)	Ø.395	Ø.395	Ø.394	Ø.394	Ø.394	Ø.393	Ø.393	Ø.393	Ø.392
ORP (mV)	146.6	150.5	150.6	150.0	149.8	151.0	150.5	151.4	152.4
DO (mg/l)	2.74	1.42	Ø.99	Ø.90	Ø.80	Ø.72	Ø.67	Ø.68	Ø.67
Turbidity (NTU)	112	100	86	63	57	43	37	24	18
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample w/ MS/MSD	Yes ☑	No ☐
Oversight: D. Lubianez ACE		
Sample ID: E5MW26AGW	Sample Time: 08:40	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

- INSTALLED BLADDER PUMP @ ~40' (TIC) 02/20/04
- Initial purge water Cloudy, Opaque, No odor fine sediment

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: Rich Blasland
Oversight Personnel: D. Lubianez ACE
Client / Job Number: GE/100.02.074
Weather: Mostly Sunny 35° (08:15)

Well ID: MW-26A
Date: 02-24-04
FID (ppm) 0.0
Time In: 06:55 Time Out: 13:55

Well Information

Depth to Water: (initial) (TIC)	(feet) 24.06	Time: 11 06	
Depth to Water: (with equipment) (TIC)	(feet) 24.17	Time: 07:02	
Depth to Water: (Final) (TIC)	(feet) 24.18	Time: 08:40	
Total Depth: (TIC)	(feet) 45.0	Time: 0932	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column: 20.83	(feet) 20.83		
Volume of Water in Well:	(gal) 3.4		

Equipment

Probe Type: Solinist — Water Level — Interface ✓

Purging Method: Bladder Pump ☑ — Other ☐

Tubing Type: Polyethylene ☐ — Teflon lined ☑

Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:15 — Pump End time: 08:40

Duration of Pumping: (min) 85

Average Pumping Rate: (ml/min) ~~[illegible]~~ 200 — Water-Quality Meter Type: YSI 556 MPS w/Flow cell + HACH 2100P Turbidimeter

Total Volume Removed: (gal) 3.4 — Did well go dry: Yes ☐ No ☑

Time Elapsed mins.	08:20 1 45	0825 2 50	08:30 3 55	08:35 4 60	08:40 5 65	6	7	8	9
Volume Purged (gal)	9000	10,000	11,000	12,000	13,000				
Rate (mL/min)	200	200	200	200	200				
Depth to Water (ft.)	24.18	24.18	24.18	24.18	24.18				
Color	clear	clear	Clear	Clear	clear				
Temp ©	9.76	9.71	9.75	9.75	9.85				
pH	5.77	5.79	5.77	5.78	5.78				
Conductivity (mS/cm)	0.392	0.393	0.393	0.393	0.392				
ORP (mV)	154.7	152.5	187.6	157.7	160.6				
DO (mg/l)	0.64	0.64	0.60	0.64	0.59				
Turbidity (NTU)	16	16	14	13	10				
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample w/MS/MSD	Yes ☑	No ☐
Oversight: D. Lubianez (ACE)		
Sample ID: ESMW26AGW	Sample Time: 08:40	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

- Installed Bladder pump @ 40' (TIC) 02/20/04.
- Ready to sample EPA oversight to split samples not on site. 08:30
- 08:35 Done EPA (ACE) on site.

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

10' Screen

BBL Personnel: Rich Blaclard
Oversight Personnel: D. Lubianez (ACE)
Client / Job Number: GE/100.02.074
Weather: Partly to Mostly Cloudy 35°F (10:00)

Well ID: MW-26B
Date: 02-24-04
FID (ppm) 0.0
Time In: 0655 Time Out: 13:55

Well Information

2/24/04 Depth to Water: (initial) (TIC)	(feet) 24.46	Time: 07:55 2/24	
Depth to Water: (with equipment) (TIC)	(feet) 24.48	Time: 10:00	
Depth to Water: (Final) (TIC)	(feet) 24.42	Time: 1300	
2/4/04 Total Depth: (TIC)	(feet) 32.13	Time: 0850	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 7.72		
Volume of Water in Well:	(gal) 1.3		

Equipment

Probe Type: Solinist — Water Level — Interface ✓
Purging Method: Bladder Pump ☑ — Other ☐
Tubing Type: Polyethylene ☐ — Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ — Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 10:05 @ 10:50 @ 11:05 — Pump End time: 13:00
Duration of Pumping: (min) 425
Average Pumping Rate: (ml/min) 140 — Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell Hach 2100P Turbidmeter
Total Volume Removed: (gal) 3.61 — Did well go dry: Yes ☐ No ☐

MINS. Time Elapsed	0 1	5 2	10 3	15 4	20 5	25 6	30 7	35 8	40 9
	11:20	11:25	11:30	11:35	11:40	11:45	11:50	11:55	12:00
Volume Purged (~~gal~~) mL	Ø	700	1400	2100	2800	3,500	4200	4900	5600
Rate (mL/min)	140	140	140	140	140	140	140	140	140
Depth to Water (ft.)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
Color	Brown	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE
Temp ©	9.21	9.51	9.67	9.68	9.59	9.62	9.65	9.67	9.56
pH	6.02	6.18	6.25	6.19	6.16	6.16	6.19	6.14	6.16
Conductivity (mS/cm)	Ø.417	Ø.417	Ø.416	Ø.417	Ø.416	Ø.415	Ø.415	Ø.415	Ø.415
ORP (mV)	-29.1	-38.3	-42.8	-44.6	-50.0	-51.0	-51.0	-52.6	-55.8
DO (mg/l)	2.02	1.46	1.27	1.12	Ø.91	Ø.93	Ø.93	Ø.85	Ø.82
Turbidity (NTU)	448	318	190	172	123	123	78	64	64
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight: D. Lubianez (ACE)		
Sample ID: ES MW26BGW	Sample Time: 13:00	
MS/MSD:	Yes ☐	No ☐
Duplicate:	Yes ☐	No ☐
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RD		

Observations

- Installed Bladder pump @ 28' (Tic) 2-24-04
- Initial Purge water Cloudy, Opaque
10:25 had to shut down. Pump pushing air.
11:05 ~~10:50~~ Restart Pump Fresh. Teflon Lining crimped.
Initial Purge water Brown, Sediment No odor.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: Rich Blasland
Oversight Personnel: D. Lubianez (ACE)
Client / Job Number: GE/100.02.074
Weather: Mostly Cloudy Sunny Haze (11:50)
Well ID: MW-26B
Date: 02-24-04
FID (ppm) 0.0
Time In: 0655 **Time Out:** 13:55

Well Information

Depth to Water: (initial) (TIC)	(feet)	24.46	Time: 07:55
Depth to Water: (with equipment) (TIC)	(feet)	24.41	Time: 10:00
Depth to Water: (Final) (TIC)	(feet)	24.42	Time: 13:00
Total Depth: (TIC)	(feet)	32.13	Time: 8:50
Total Depth: (TIC)	(feet)	N/A	Time: N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time: N/A
Length of Water Column:	(feet)	7.72	
Volume of Water in Well:	(gal)	1.3	

Equipment

Probe Type: Solinst Water Level Interface ✓

Purging Method: Bladder Pump ☑ Other ☐

Tubing Type: Polyethylene ☐ Teflon lined ☑

Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 11:05 Pump End time: 13:00

Duration of Pumping: (min) 125

Average Pumping Rate: (ml/min) 140 Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell - Hach 2100P Turbidimeter

Total Volume Removed: (gal) 3.61 Did well go dry: Yes ☐ No ☑

Time Elapsed mins.	12:05 1 45	12:10 2 50	12:15 3 55	12:20 4 60	12:25 5 65	12:30 6 70	12:35 7 75	12:40 8 80	12:45 9 85
Volume Purged (~~gal~~) mL	6300	7,000	7,700	8400	9100	9,800	10,500	11,200	11,900
Rate (mL/min)	140	140	140	140	140	140	140	140	140
Depth to Water (ft.)	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42	24.42
Color	OPAQUE	clear	clear	clear	clear	clear	clear	clear	clear
Temp ©	9.63	9.70	9.71	9.73	9.77	9.77	9.74	9.68	9.64
pH	6.13	6.13	6.31	6.15	6.11	6.13	6.12	6.13	6.12
Conductivity (mS/cm)	0.413	0.413	0.414	0.413	0.413	0.414	0.414	0.414	0.415
ORP (mV)	-58.1	-57.5	-61.3	-60.2	-60.9	-61.7	-62.2	-63.5	-63.9
DO (mg/l)	0.80	0.77	0.74	0.77	0.70	0.70	0.68	0.69	0.72
Turbidity (NTU)	40	40	28	27	23	22	17	14	12
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight: D. Lubianez (ACE)		
Sample ID:	Sample Time: 13:00	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: Rich Blasland
Oversight Personnel: D Lubiance (ACE)
Client / Job Number: GE/100.02.074
Weather:

Well ID: MW-26B
Date: 02-24-04
FID (ppm) 0.0
Time In: 0655 Time Out: 13:55

Well Information

2/24/04 Depth to Water: (initial) (TIC)	(feet)	24.46	Time: 07:55
Depth to Water: (with equipment) (TIC)	(feet)	24.41	Time: 10:00
Depth to Water: (Final) (TIC)	(feet)	24.41	Time: 13:00
2/4/04 Total Depth: (TIC)	(feet)	32.13	Time: 8:50
Total Depth: (TIC)	(feet)	N/A	Time: N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time: N/A
Length of Water Column:	(feet)	7.72	
Volume of Water in Well:	(gal)	1.3	

Equipment

Probe Type: Solinist Water Level Interface ☑
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 11:05 Pump End time: 13:00
Duration of Pumping: (min) 125
Average Pumping Rate: (ml/min) 140 Water-Quality Meter Type: YSI 556 MPS w/Flow Cell - Hach 2100P Turbidimeter
Total Volume Removed: (gal) 3.61 Did well go dry: Yes ☐ No ☑

Time Elapsed MINS.	90 1	95 2	100 3	4	5	6	7	8	9
	12:50	12:55	13:00						
Volume Purged (gal)	12,600	13,300	14,000						
Rate (mL/min)	140	140	140						
Depth to Water (ft.)	24.42	24.42	24.42						
Color	Clear	Clear	Clear						
Temp ©	9.69	9.79	9.78						
pH	6.08	6.10	6.11						
Conductivity (mS/cm)	0.415	0.414	0.415						
ORP (mV)	-64.0	-65.0	-65.4						
DO (mg/l)	0.68	0.65	0.65						
Turbidity (NTU)	10	9	9						
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight: D. Lubiance (ACE)		
Sample ID: ESMW26BGW	Sample Time: 13:00	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

End purge water clear, no color, No sediment, No odor.

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

10' Screen

BBL Personnel: Rich Blasiano
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Partly Cloudy, 18° AM

Well ID: MW-27A
Date: 2/20/04
FID (ppm) 0.0
Time In: 0650 Time Out: 1200

Well Information

Depth to Water: (Initial) (TIC)	(feet) 24.89	Time: 0705	
Depth to Water: (with equipment) (TIC)	(feet) 24.80	Time: 07:15	
Depth to Water: (Final) (TIC)	(feet) 25.16	Time: 1125	
2/5/04 Total Depth: (TIC)	(feet) 39.25	Time: 1601	
Total Depth: (TIC)	(feet) —	Time: —	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 14.36		
Volume of Water in Well:	(gal) 2.34		

Equipment

Probe Type: Solinst Water Level ☑ Interface ☑
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:30 Pump End time: 11:25
Duration of Pumping: (min) 235
Average Pumping Rate: (ml/min) 62.4 Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100P Turbidimeter
Total Volume Removed: (gal) 3.39 Did well go dry: Yes ☐ No ☑

Time Elapsed MINS.	07:35 1 0	07:40 2 5	07:45 3 10	07:50 4 15	07:55 5 20	08:00 6 25	08:05 7 30	08:10 8 35	08:15 9 40
Volume Purged (gal) ml	Ø	110	550	830	1150	1450	1750	2050	2350
Rate (mL/min)	110	110	60	60	60	60	60	60	60
Depth to Water (ft.)	25.16	25.28	25.17	25.12	25.17	25.13	25.11	25.08	25.08
Color	OPAQUE	DK Brown	DK Brown	Brown			LT Brown	LT Brown	LT Brown
Temp °	7.99	8.50	8.01	7.68	Cleaned out flow cell	Cleaned out flow cell	7.45	7.20	7.19
pH	5.22	5.35	5.44	5.46			5.55	5.55	5.56
Conductivity (mS/cm)	Ø.484	Ø.494	Ø.495	Ø.496			Ø.502	Ø.506	Ø.507
ORP (mV)	-327.6	-356.4	-359.0	-355.5			-361.1	-361.5	-361.9
DO (mg/l)	2.49	1.17	1.07	1.05			1.66	Ø.94	Ø.95
Turbidity (NTU)	472	>1000	>1000	>1000			848	603	548
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: ESMW27AGW	Sample Time: 11:25	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	DNS	

Observations

- Bladder Pump installed @ 34' (TIC) on 2/20/04
- Initial purge water Cloudy, OPAQUE/Brown Fine Sediment.
- 07:40 Exceed 3/10' drawdown @ 110 mLs/min Reduce flow to 60 mL/min.
- 07:55 while purge continues, clean out Flow cell.

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

10' screen

BBL Personnel:	Richard Blasland	Well ID:	MW-27A
Oversight Personnel:	N/A	Date:	02-20-04
Client / Job Number:	GE/100.02.074	FID (ppm)	0.0
Weather:	Partly Cloudy 18°c	Time In: 0650	Time Out: 1200

Well Information

Depth to Water: (initial) (TIC)	(feet)	24.89	Time: 0705
Depth to Water: (with equipment) (TIC)	(feet)	24.80	Time: 07:15
Depth to Water: (Final) (TIC)	(feet)	25.16	Time: 1125
Total Depth: (TIC)	(feet)	39.25	Time: 16:01
Total Depth: (TIC)	(feet)	—	Time: —
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time: N/A
Length of Water Column:	(feet)	14.36	
Volume of Water in Well:	(gal)	2.34	

Equipment

Probe Type: Solinist — Water Level ☐ — Interface ☑

Purging Method: Bladder Pump ☑ — Other ☐

Tubing Type: Polyethylene ☐ — Teflon lined ☑

Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time:	07:30	Pump End time:	11:25
Duration of Pumping:	(min) 235		
Average Pumping Rate:	(ml/min) 62.4	Water-Quality Meter Type:	YSI 556 MPS w/ flow cell + HACH 2100P (Turb.)
Total Volume Removed:	(gal) 3.39	Did well go dry:	Yes ☐ No ☑

Time Elapsed mins.	08:20 1 45	08:25 2 50	08:30 3 55	08:35 4 60	08:40 5 65	08:45 6 70	08:50 7 75	08:55 8 80	09:00 9 85
Volume Purged (~~gal~~) ml	2550	2950	3350	3750	3850	4250	4450	4750	5050
Rate (mL/min)	60	60	60	60	60	60	60	60	60
Depth to Water (ft.)	25.08	25.09	25.12	25.12	25.12	25.12	25.12	25.06	25.07
Color	Lt Brown	Lt Brown	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE
Temp ©	7.19	7.16	7.79	8.11	8.38	8.65	8.69	8.47	8.40
pH	5.59	5.58	5.64	5.67	5.71	5.73	5.75	5.77	5.77
Conductivity (mS/cm)	0.508	0.509	0.509	0.509	0.511	0.511	0.513	0.518	0.517
ORP (mV)	-362.9	-360.7	-366.3	-371.4	-374.9	-378.0	-379.5	-380.2	-378.0
DO (mg/l)	0.91	0.90	0.88	0.88	0.74	0.65	0.63	0.65	0.62
Turbidity (NTU)	468	387	315	253	215	194	163	145	130
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: ES MW27A GW	Sample Time: 11:25	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

Purge water clearing, No odor.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel:
Client / Job Number: GE/100.02.074
Weather: Partly Cloudy 18°

Well ID: MW-27A
Date: 02-20-04
FID (ppm) 0.0
Time In: 0650 **Time Out:** 1200

Well Information

Depth to Water: (initial) (TIC)	(feet) 24.89	Time: 0705	
Depth to Water: (with equipment) (TIC)	(feet) 24.80	Time: 0715	
Depth to Water: (Final) (TIC)	(feet) 25.16	Time: 1125	
Total Depth: (TIC)	(feet) 39.25	Time: 16:01	
Total Depth: (TIC)	(feet) —	Time: —	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 14.36		
Volume of Water in Well:	(gal) 2.34		

Equipment

Probe Type: Solinist Water Level ☑ Interface ☑
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:30 Pump End time: 11:25
Duration of Pumping: (min) 235
Average Pumping Rate: (ml/min) 62.4 Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell + Hach 2100P turb
Total Volume Removed: (gal) 3.39 Did well go dry: Yes ☐ No ☑

Time Elapsed Mins.	0905 1 90	0910 2 95	0915 3 100	09:20 4 105	0925 5 110	09:30 6 120	09:35 7 125	09:40 8 130	09:45 9 135
Volume Purged (gal)	5350	5650	5950	6250	6550	6850	7150	7450	7750
Rate (mL/min)	60	60	60	60	60	60	60	60	60
Depth to Water (ft.)	25.07	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.09
Color	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	clear	clear	clear
Temp ©	8.88	8.84	8.93	9.19	09.39	9.56	9.64	9.61	9.66
pH	5.79	5.76	5.79	5.81	5.82	5.83	5.84	5.85	5.82
Conductivity (mS/cm)	0.516	0.518	0.517	0.516	0.516	0.516	0.517	0.517	0.517
ORP (mV)	-378.2	-378.1	-379.7	-382.7	-384.2	-387.6	-390.4	-389.5	-387.7
DO (mg/l)	0.63	0.62	0.60	0.56	0.55	0.52	0.49	0.48	0.47
Turbidity (NTU)	130	105	101	90	91	80	74	75	70
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo ☑
Split Sample	N/A	Yes ☐ No ☑
Oversight:		
Sample ID: ESMW27AGW	Sample Time: 11:25	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID	N/A	Dup. Time: N/A
Chain of Custody Signed By:		

Observations

Purge water clearing. water stabile less Turbidity which is reducing.

The well from Hell

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: Richard Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Partly Clear 25°

Well ID: MW-27A
Date: 02-20-04
FID (ppm) 0.0
Time In: 0656 **Time Out:** 1200

Well Information

Depth to Water: (initial) (TIC)	(feet) 24.89	Time: 0705	
Depth to Water: (with equipment) (TIC)	(feet) 24.80	Time: 0715	
Depth to Water: (Final) (TIC)	(feet) 25.16	Time: 1125	
Total Depth: (TIC)	(feet) 39.25	Time: 1601	
Total Depth: (TIC)	(feet) —	Time: —	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 14.36		
Volume of Water in Well:	(gal) 2.34		

Equipment

Probe Type: Solinist Water Level ✓ Interface ✓

Purging Method: Bladder Pump ☑ Other ☐

Tubing Type: Polyethylene ☐ Teflon lined ☑

Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:30 Pump End time: 11:25

Duration of Pumping: (min) 235

Average Pumping Rate: (ml/min) 62.4 Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell + HACH 2100P (Turb.)

Total Volume Removed: (gal) 3.39 Did well go dry: Yes ☐ No ☑

Time Elapsed MINS.	~~0850~~ 0950 140	0955 2 145	1000 3 150	1005 4 155	1010 5 160	1015 6 165	1025 7 175	1035 8 185	1045 9 195
Volume Purged (~~gal~~) mL	8050	8350	8650	8950	9250	9550	10,150	10,750	11,050
Rate (mL/min)	60	60	60	60	60	60	60	60	60
Depth to Water (ft.)	25.09	25.09	25.09	25.09	25.09	25.09	25.09	25.09	25.09
Color	Clear	clear	clear	clear	clear	clear	clear	clear	clear
Temp ©	9.88	10.01	9.97	10.03	9.92	9.89	9.68	10.74	10.85
pH	5.84	5.87	5.86	5.87	5.87	5.87	5.86	5.90	5.87
Conductivity (mS/cm)	0.518	0.519	0.520	0.519	0.520	0.520	0.519	0.517	0.518
ORP (mV)	-389.4	-394.2	-394.5	-394.0	-391.7	-390.5	-386.4	-336.1	-357.8
DO (mg/l)	0.48	0.46	0.44	0.46	0.46	0.46	0.49	0.47	0.38
Turbidity (NTU)	66	63	65	59	58	56	55	49	52
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: ES MW27AGW	Sample Time: 11:25	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RDL		

Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Sunny 25°

Well ID: MW-27A
Date: 02-20-04
FID (ppm) 0.0
Time In: 0650 **Time Out:** 1200

Well Information

Depth to Water: (initial) (TIC)	(feet) 24.89	Time: 0705	
Depth to Water: (with equipment) (TIC)	(feet) 24.80	Time: 0715	
Depth to Water: (Final) (TIC)	(feet) 25.16	Time: 1125	
Total Depth: (TIC)	(feet) 39.25	Time: 10:01	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 14.36		
Volume of Water in Well:	(gal) 2.34		

Equipment

Probe Type: Solinist — Water Level / (Interface)
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time:	07:30	Pump End time:	11:25
Duration of Pumping:	(min) 235		
Average Pumping Rate:	(ml/min) 62.4	Water-Quality Meter Type:	YSI MPS 556 w/ Flow Cell + HACH 2100P (Turb.)
Total Volume Removed:	(gal) 3.39	Did well go dry:	Yes ☐ No ☑

Time Elapsed	10:55 1 205	11:05 2 215	11:15 3 220	11:20 4 225	11:25 5 230	6	7	8	9
Volume Purged (gal) mL	11650	12250	12550	12850	13150				
Rate (mL/min)	60	60	60	60	60				
Depth to Water (ft.)	25.14	25.16	25.16	25.16	25.16				
Color	clear	clear	clear	clear	Clear				
Temp ©	10.96	10.95	10.95	10.95	10.98				
pH	5.87	5.87	5.87	5.87	5.87				
Conductivity (mS/cm)	0.519	0.519	0.520	0.519	0.519				
ORP (mV)	-382.1	-387.5	-380.6	-392.0	-391.6				
DO (mg/l)	0.32	0.30	0.30	0.30	0.31				
Turbidity (NTU)	51	49.	49	48	49				
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	N/A	Yes ☐ No ☑
Oversight:	N/A	
Sample ID:	ESMW27AGW	Sample Time: 11:25
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID	N/A	Dup. Time: N/A
Chain of Custody Signed By:	DNS	

Observations

End Purge water clear, No Odor
No sediment

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG (10' screen)

BBL Personnel: Rich Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Clear 35°F

Well ID: MW-27B
Date: 02-23-04
FID (ppm) 0.0
Time In: 11:45 Time Out: 15:05

Well Information

2/20/04 Depth to Water: (Initial) (TIC)	(feet) 24.10	Time: 1002	
Depth to Water: (with equipment) (TIC)	(feet) 24.14	Time: 11:55	
Depth to Water: (Final) (TIC)	(feet) 24.34	Time: 1415	
2/5/04 Total Depth: (TIC)	(feet) 28.15	Time: 1418	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 4.01		
Volume of Water in Well:	(gal) 0.65		

Equipment

Probe Type: Solinst Water Level Interface ✓
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 12:05 Pump End time: 14:15
Duration of Pumping: (min) 130
Average Pumping Rate: (ml/min) 43.5 Water-Quality Meter Type: YSI 556 MPS w/ Flow cell + HACH 2100P (Turbidity Meter)
Total Volume Removed: (gal) 0.88 Did well go dry: Yes ☐ No ☑

Time Elapsed mins.	12:55 1	13:00 2	13:05 3	13:10 4	13:15 5	13:20 6	13:25 7	13:30 8	13:35 9
	0	5	10	15	20	25	30	35	40
Volume Purged (gal) mL	0	275	550	825	1,025	1,225	1,425	1,625	1,825
Rate (mL/min)	55	55	55	55	40	40	40	40	40
Depth to Water (ft.)	24.44	24.44	24.45	24.48	24.42	24.42	24.37	24.37	24.34
Color	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	clear
Temp C	8.23	8.08	8.37	8.10	8.04	7.99	7.91	7.85	7.74
pH	5.79	5.86	5.75	5.77	5.75	5.74	5.75	5.76	5.75
Conductivity (mS/cm)	3.374	3.213	3.105	3.000	2.9333	2.904	2.898	2.892	2.898
ORP (mV)	171.9	168.2	165.9	161.5	159.5	157.0	154.7	152.4	150.9
DO (mg/l)	2.28	1.93	1.81	1.76	1.61	1.51	1.45	1.59	1.77
Turbidity (NTU)	129	125	134	143	128	96	78	60	46
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: ESMW27BGW	Sample Time: 14:15	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

- INSTALLED BLADDER PUMP @ 26' (TIC) ON 2/20/04
- Initial Purge water opaque, Cloudy, No odor.
- Some Bio-matter settles in Flow cell. Draw down @ > 3/10's
- 13:10 reduce Flow from 55 ml/m to 40 ml/m.

28.15
24.10
4.05

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: Rich Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Clear 35°

Well ID: MW-27B
Date: 02-23-04
FID (ppm) 0.0
Time In: 11:45 Time Out: 15:05

Well Information

Depth to Water: (initial) (TIC)	(feet) 24.10	Time: 10 02	
Depth to Water: (with equipment) (TIC)	(feet) 24.14	Time: 11:55	
Depth to Water: (Final) (TIC)	(feet) 24.34	Time: 1415	
Total Depth: (TIC)	(feet) 28.15	Time: 1418	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 4.01		
Volume of Water in Well:	(gal) 0.65		

Equipment

Probe Type: Solinist — Water Level — Interface ✓

Purging Method: Bladder Pump ☑ — Other ☐

Tubing Type: Polyethylene ☐ — Teflon lined ☑

Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 12:05 — Pump End time: 14:15

Duration of Pumping: (min) 130

Average Pumping Rate: (ml/min) 43.5 — Water-Quality Meter Type: YSI 556 MPS w/ Flow cell + HACH 2100P turbidimeter

Total Volume Removed: (gal) 0.88 — Did well go dry: Yes ☐ No ☑

Time Elapsed MINS.	13:40 1 45	13:45 2 50	13:50 3 55	13:55 4 60	14:00 5 65	14:05 6 70	14:10 7 75	14:15 8 80	9
Volume Purged ~~(gal)~~ ml	2025	2,225	2,425	2,625	2825	3025	3225	3425	
Rate (mL/min)	40	40	40	40	40	40	40	40	
Depth to Water (ft.)	24.37	24.36	24.36	24.36	24.37	24.35	24.34	24.34	
Color	Clear	clear	clear	clear	clear	clear	clear	clear	
Temp ©	7.78	7.75	7.80	7.72	7.69	7.85	7.91	7.80	
pH	5.75	5.74	5.76	5.73	5.75	5.75	5.75	5.76	
Conductivity (mS/cm)	2.893	2.898	2.896	2.912	2.939	2.973	2.987	2.999	
ORP (mV)	147.4	145.5	145.2	143.1	141.6	139.7	138.4	137.0	
DO (mg/l)	1.63	1.79	1.73	1.54	1.64	1.69	1.59	1.54	
Turbidity (NTU)	42	33	24	19	16	13	12	11	
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample ~~ESMW27B GW~~	Yes ☐	No ☑
Oversight: N/A		
Sample ID: ESMW27BGW	Sample Time: 14:15	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RN		

Observations

- End Purge water clear, no sediment no color, no odor.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

10' SCREEN

BBL Personnel: [illegible]
Oversight Personnel: YURI YATSEVITCH (USACE)
Client / Job Number: GE/100.02.074
Weather: SUNNY, 35-40°F

Well ID: MW-28A
Date: 2/19/04
FID (ppm): 2.1
Time In: 1200 Time Out: 1415

Well Information

Depth to Water: (Initial) (TIC)	(feet) 21.15	Time: 1159	
Depth to Water: (with equipment) (TIC)	(feet) 21.15	Time: 1218	
Depth to Water: (Final) (TIC)	(feet) 21.30	Time: 1330	
1/26/04 Total Depth: (TIC)	(feet) 34.80	Time: 1427	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 13.65		
Volume of Water in Well:	(gal) 2.2		

Equipment

Probe Type:	Water Level	Interface
Purging Method:	Bladder Pump ☒	Other ☐
Tubing Type:	Polyethylene ☐	Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1230 Pump End time: 1330 (SAMPLE)
Duration of Pumping: 60 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100P Turbidimeter
Total Volume Removed: 3.2 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1230 1 0	1235 2 5	1240 3 10	1245 4 15	1250 5 20	1255 6 25	1300 7 30	1305 8 35	1310 9 40
Volume Purged (gal)	0	1000	2000	3000	4000	5000	6000	7000	8000
Rate (mL/min)	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	21.30	21.30	21.30	21.30	21.30	21.30	21.30	21.30	21.30
Color	ORANGE BROWN	ORANGE BROWN	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	CLEAR	CLEAR
Temp ©	11.16	11.91	12.01	11.98	11.88	11.89	11.74	11.78	11.67
pH	5.74	5.87	5.88	5.88	5.88	5.88	5.88	5.88	5.88
Conductivity (mS/cm)	0.578	0.588	0.591	0.594	0.596	0.597	0.597	0.595	0.595
ORP (mV)	167.3	145.7	141.8	140.4	140.4	140.3	139.8	139.7	139.1
DO (mg/l)	2.40	1.66	1.36	1.07	1.01	0.95	0.94	0.96	0.97
Turbidity (NTU)	88	160	100	56	40	27	19	16	11
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: YURI YATSEVITCH (USACE)		
Sample ID: BBSMW28AGW	Sample Time: 1330	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	[illegible]	

Observations

- INSTALLED BLADDER PUMP @ ~30' (TIC) ON 2/19/04
- INITIAL PURGE H2O ORANGE BROWN, MODERATELY TURBID, ODORLESS
- SAMPLES CLEAR, COLORLESS, ODORLESS

FOX COLLECTS RINSE BLANK RB021904 @ 1500 USING DEDICATED BLADDER PUMP, LAB PROVIDED DI H2O & GLASSWARE.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RDX
Oversight Personnel: YURI YATSEVITCH (USACE)
Client / Job Number: GE/100.02.074
Weather: Sunny, 35-40°F

Well ID: MW-28A
Date: 2/18/04
FID (ppm) 2.1
Time In: 1200 **Time Out:** 1415

Well Information

Depth to Water: (initial) (TIC)	(feet)	21.15	Time:	1159
Depth to Water: (with equipment) (TIC)	(feet)	21.15	Time:	1218
Depth to Water: (Final) (TIC)	(feet)	21.30	Time:	1336
1/26/04 Total Depth: (TIC)	(feet)	34.80	Time:	1427
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	13.65		
Volume of Water in Well:	(gal)	2.2		

Equipment

Probe Type:	Water Level	Interface	
Purging Method:	Bladder Pump ☑	Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☑	
Well Diameter:	1" ☐	2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1230 Pump End time: 1330 (SAMPLE)
Duration of Pumping: 60 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ FLOW THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 3.2 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1315 1 45	1320 2 50	1325 3 55	1330 4 60	5	6	7	8	9
Volume Purged (gal)	9000	10,000	11,000	12,000					
Rate (mL/min)	200	200	200	200					
Depth to Water (ft.)	21.30	21.30	21.30	21.30					
Color	CLEAR	CLEAR	CLEAR	CLEAR					
Temp ©	11.85	11.93	11.97	11.98					
pH	5.88	5.88	5.88	5.88					
Conductivity (mS/cm)	0.594	0.594	0.594	0.593					
ORP (mV)	140.0	140.1	140.1	139.7					
DO (mg/l)	0.97	1.02	0.98	0.88					
Turbidity (NTU)	9	9	10	9					
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight: YURI YATSEVITCH (USACE)		
Sample ID: ESMW28A(W)	Sample Time: 1330	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RDX		

Observations

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

10' Screen

BBL Personnel: (DK)
Oversight Personnel: NA (DL) Dave L. (USACE)
Client / Job Number: GE/100.02.074
Weather: Partly Cloudy, 18°F Am

Well ID: MW-28B
Date: 2/20/04
FID (ppm) 1.30
Time In: 0650 Time Out: 0915

Well Information

Depth to Water: (initial) (TIC)	(feet) 16.21	Time: 0658	
Depth to Water: (with equipment) (TIC)	(feet) 16.21	Time: 0719	
Depth to Water: (Final) (TIC)	(feet) 16.28	Time: 0815	
1/26/04 Total Depth: (TIC)	(feet) 22.86'	Time: 1432	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 6.65		
Volume of Water in Well:	(gal) 1.1		

Equipment

Probe Type:	(Water Level) Interface
Purging Method:	Bladder Pump ☒ Other ☐
Tubing Type:	Polyethylene ☐ Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0730 Pump End time: 0815 (Sample)
Duration of Pumping: 45 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ flow through cell / HACH 2100P Turbidimeter
Total Volume Removed: 2.4 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0730 1 0	0735 2 5	0740 3 10	0745 4 15	0750 5 20	0755 6 25	0800 7 30	0805 8 35	0810 9 40
Volume Purged (gal)	Initial	1000ml	2000ml	3000ml	4000	5000ml	6000ml	7000ml	8000ml
Rate (mL/min)	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	16.24	16.28	16.28	16.28	16.28	16.28	16.28	16.28	16.28
Color	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless
Temp ©	7.62	8.95	9.11	8.95	9.09	9.05	9.20	9.29	9.31
pH	2.89	4.88	5.21	5.30	5.44	5.38	5.41	5.37	5.37
Conductivity (mS/cm)	0.674	0.750	0.755	0.758	0.762	0.760	0.757	0.756	0.757
ORP (mV)	114.5	-17.8	-48.0	-79.2	-100.8	-112.7	-122.5	-126.6	-133.3
DO (mg/l)	1.62	0.64	0.52	0.39	0.38	0.34	0.35	0.35	0.31
Turbidity (NTU)	16	15	19	20	13	9	7	5	5
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No (☒)
Oversight: (DK) N/A Dave L. (USACE)		
Sample ID: ESMW28B6W	Sample Time: 0815	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID	N/A	Dup. Time: N/A
Chain of Custody Signed By:	(RSG)	

Observations

- Bladder pump installed @ 20' (TIC) on 2/20/04
- Initial purge H2O clear, colorless w/ odor
- Sampled clear, colorless w/ odor

DK collects Rinse Blank RB022004 @ 0930 using lab provided DI H2O, glassware & decanted bladder pump.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: (RJ)
Oversight Personnel: DAVEL. (USACE)
Client / Job Number: GE/100.02.074
Weather: PARTY CLOUDY, 18°C AM

Well ID: MW-28B
Date: 2/20/04
FID (ppm) 1.30
Time In: 0650 **Time Out:** 0915

Well Information

Depth to Water: (initial) (TIC)	(feet)	16.21	Time:	0650
Depth to Water: (with equipment) (TIC)	(feet)	16.21	Time:	0719
Depth to Water: (Final) (TIC)	(feet)	16.28	Time:	0815
Total Depth: (TIC)	(feet)	22.86	Time:	1432
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	6.65'		
Volume of Water in Well:	(gal)	1.1		

Equipment

Probe Type:	(Water Level)	Interface	
Purging Method:	Bladder Pump ☒	Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☒	
Well Diameter:	1" ☐	2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0730 Pump End time: 0815 (Sample)

Duration of Pumping: 45 (min)

Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ FLOW THROUGH CELL / HACH 2100P TURBIDIMETER

Total Volume Removed: 24 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0815 1 45	2	3	4	5	6	7	8	9
Volume Purged (gal)	9000 ml								
Rate (mL/min)	200								
Depth to Water (ft.)	16.28								
Color	Colorless								
Temp ©	9.36								
pH	5.37								
Conductivity (mS/cm)	0.755								
ORP (mV)	-135.2								
DO (mg/l)	0.29								
Turbidity (NTU)	5								
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVEL (USACE)		
Sample ID: ESMW28BGW	Sample Time: 0815	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: (RJ)		

Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG 10' SCREEN

BBL Personnel: Rich Blasiewicz
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Sunny, 20°F AM

Well ID: MW-29B
Date: 2/25/04
FID (ppm) 0.0
Time In: 0655 **Time Out:** 09:10

Well Information

Depth to Water: (initial) (TIC)	(feet) 26.23	Time: 0659	
Depth to Water: (with equipment) (TIC)	(feet) 26.22	Time: 07:16	
Depth to Water: (Final) (TIC)	(feet) 26.22	Time: 0915	
2/4/04 Total Depth: (TIC)	(feet) 32.93	Time: 1250	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 6.7		
Volume of Water in Well:	(gal) 1.1		

Equipment

Probe Type:	Water Level	Interface ✓
Purging Method:	Bladder Pump ☒ ✓	Other ☐
Tubing Type:	Polyethylene ☐	Teflon lined ☒ ✓
Well Diameter:	1" ☐ 2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time:	07:20	Pump End time:	08:15
Duration of Pumping:	(min) 55		
Average Pumping Rate:	(ml/min) 220	Water-Quality Meter Type:	YSI 556 MPS w/ flow through cell / HACH 2100P Turbidimeter
Total Volume Removed:	(gal) 2.6	Did well go dry:	Yes ☐ No ☒

Time Elapsed MINS.	07:30 1 0	07:35 2 5	07:40 3 10	07:45 4 15	07:48 5 18	07:51 6 21	07:54 7 24	07:57 8 27	08:00 9 30
Volume Purged (~~gal~~) mL	Ø	1100	2200	3300	3960	4620	5280	5940	6600
Rate (mL/min)	220	220	220	220	220	220	220	220	220
Depth to Water (ft.)	26.22	26.22	26.22	26.22	26.22	26.22	26.22	26.22	26.22
Color	clear	clear	clear	clear	clear	clear	clear	clear	clear
Temp ©	9.77	10.01	10.06	9.91	9.92	9.93	9.98	9.95	10.02
pH	5.83	5.85	5.86	5.84	5.84	5.84	5.84	5.84	5.85
Conductivity (mS/cm)	Ø.501	Ø.502	Ø.503	Ø.502	Ø.501	Ø.501	Ø.502	Ø.502	Ø.501
ORP (mV)	-350.0	-360.6	-354.5	-380.8	-386.3	-368.3	-366.8	-367.1	-366.5
DO (mg/l)	1.68	Ø.71	Ø.56	Ø.50	Ø.43	Ø.41	Ø.38	Ø.38	Ø.34
Turbidity (NTU)	8	11	8	8	5	3	3	2	2
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: ESMW29BGW	Sample Time: 08:15	
MS/MSD:	Yes ☒	No ☐
Duplicate:	Yes ☒	No ☐
Duplicate ID MWDUP36W	Dup. Time: —	
Chain of Custody Signed By: RBB		

Observations

- INSTALLED BLADDER PUMP @ ~30' (TIC) on 2/25/04
- Initial purge water, OPAQUE, fine sediment. No odor. Purge water clears quickly.

07:48 ~~Take~~ collect readings every 3 min

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: Rich Blasland
Well ID: MW-29 B
Oversight Personnel: N/A
Date: 02-25-04
Client / Job Number: GE/100.02.074
FID (ppm) 0.0
Weather: Mostly Clear/Sunny 20° (08:10)
Time In: 0655 **Time Out:** 09:10

Well Information

Depth to Water: (initial) (TIC)	(feet) 26.23	Time: 0659	
Depth to Water: (with equipment) (TIC)	(feet) 26.22	Time: 07:16	
Depth to Water: (Final) (TIC)	(feet) 26.22	Time: 8:15	
2/4/04 Total Depth: (TIC)	(feet) 32.93	Time: 1250	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 6.7		
Volume of Water in Well:	(gal) 1.1		

Equipment

Probe Type: Solinst — Water Level ☐ — Interface ☑

Purging Method: Bladder Pump ☑ — Other ☐

Tubing Type: Polyethylene ☐ — Teflon lined ☑

Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:20 — Pump End time: 08:15

Duration of Pumping: (min) 55

Average Pumping Rate: (ml/min) 220 — Water-Quality Meter Type: YSI 556 MPS w/ Flow cell + HACH 2100P Turbidimeter

Total Volume Removed: (gal) 2.6 — Did well go dry: Yes ☐ No ☑

Time Elapsed	08:03 1 33	08:06 2 36	08:09 3 39	08:12 4 42	08:15 5 45	6	7	8	9
Volume Purged (~~gal~~) mL	7260	7290	8580	9240	9900				
Rate (mL/min)	220	220	220	220	220				
Depth to Water (ft.)	26.22	26.22	26.22	26.22	26.22				
Color	clear	clear	clear	clear	clear				
Temp ©	10.04	10.84	10.17	10.17	10.14				
pH	5.85	5.85	5.85	5.85	5.85				
Conductivity (mS/cm)	0.501	0.501	0.502	0.502	0.501				
ORP (mV)	-370.9	-396.2	-409.2	-407.2	-409.1				
DO (mg/l)	0.33	0.32	0.31	0.31	0.31				
Turbidity (NTU)	2	1	1	1	1				
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: ESMW29B6W	Sample Time: 08:15	
MS/MSD:	Yes ☑	No ☐
Duplicate:	Yes ☑	No ☐
Duplicate ID MWDUP3 6W	Dup. Time: —	
Chain of Custody Signed By:		

Observations

- End Purge water, clear, no color, No sediment, No Odor.

Draft for EPA Review

Mill Street Area Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG 11.9' SCREEN

BBL Personnel: (BDS)
Oversight Personnel: DAVE L. (USACE), CHERYL S. (USEPA)
Client / Job Number: GE/100.02.074
Weather: Sunny, 22°F Am

Well ID: MW-7A
Date: 2/26/04
FID (ppm) 0.0
Time In: 0655 **Time Out:** 0945

Well Information

Depth to Water: (initial) (TIC)	(feet) 9.20	Time: 0658	
Depth to Water: (with equipment) (TIC)	(feet) 9.20	Time: 0718	
Depth to Water: (Final) (TIC)	(feet) 9.20	Time: 0830	
2/5/04 Total Depth: (TIC)	(feet) 18.87	Time: 0900	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 9.67		
Volume of Water in Well:	(gal) 1.6		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0740 Pump End time: 0830 (Sample)
Duration of Pumping: 50 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100P Turbidimeter
Total Volume Removed: 2.6 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0740 1 0	0745 2 5	0750 3 10	0755 4 15	0800 5 20	0810 6 30	0820 7 40	0830 8 50	9
Volume Purged (gal)	0	1000 ml	2000 ml	3000 ml	4000 ml	6000 ml	8000 ml	10,000 ml	
Rate (mL/min)	200	200	200	200	200	200	200	200	
Depth to Water (ft.)	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	
Color	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	
Temp ©	6.47	6.51	6.49	6.60	6.68	6.88	6.88	6.77	
pH	5.97	5.87	5.84	5.84	5.84	5.83	5.83	5.83	
Conductivity (mS/cm)	0.292	0.296	0.296	0.296	0.297	0.296	0.297	0.295	
ORP (mV)	236.1	236.8	238.0	236.8	235.8	230.6	227.5	227.3	
DO (mg/l)	2.57	1.60	1.36	1.25	1.22	1.08	1.06	1.04	
Turbidity (NTU)	6	4	3	3	2	2	1	1	
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample + 1,4 Dioxane	Yes ☒	No ☐
Oversight: DAVE L. (USACE), CHERYL S. (USEPA)		
Sample ID: MSMW7A GW	Sample Time: 0830	
MS/MSD: Yes ☐	No ☒	
Duplicate: Yes ☐	No ☒	
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: (BDS)		

Observations

- INSTALLED BLADDER PUMP @ ~14' (TIC) ON 2/26/04
- INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS
- SAMPLED CLEAR, COLORLESS, ODORLESS

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RDK
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 30°F

Well ID: MW-9A 8' SCREEN
Date: 2/18/04
FID (ppm) 0.0
Time In: 13:50 Time Out: 15:30

Well Information

Depth to Water: (initial) (TIC)	(feet) 6.05	Time: 1333	
Depth to Water: (with equipment) (TIC)	(feet) 6.06	Time: 14:00	
Depth to Water: (Final) (TIC)	(feet) 6.06	Time: 15:15	
1/22/04 Total Depth: (TIC)	(feet) 22.18	Time: 1344	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 16.12		
Volume of Water in Well:	(gal) 2.63		

Equipment

Probe Type: 50/Mist. (Water Level) ✓ Interface ✓
Purging Method: Bladder Pump ✓ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ✓
Well Diameter: 1" ☐ 2" ✓ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 14:05 Pump End time: 14:50
Duration of Pumping: (min) 45
Average Pumping Rate: (ml/min) 100 Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100P Turbidimeter
Total Volume Removed: (gal) 1.16 Did well go dry: Yes ☐ No ✓

Time Elapsed	0 1 14:20	5 2 14:25	10 3 14:30	15 4 14:35	20 5 14:40	25 6 14:45	30 7 14:50	8	9
Volume Purged (gal) mL	Ø	100	200	300	400	500	600		
Rate (mL/min)	100	100	100	100	100	100	100		
Depth to Water (ft.)	6.07	6.07	6.07	6.07	6.07	6.07	6.07		
Color	clear	clear	clear	clear	clear	clear	clear		
Temp ©	3.38	3.66	3.75	3.86	3.97	4.15	4.26		
pH	4.94	4.88	4.87	4.86	4.85	4.86	4.86		
Conductivity (mS/cm)	Ø.185	Ø.192	Ø.193	Ø.194	Ø.194	Ø.194	Ø.195		
ORP (mV)	234.3	243.3	245.6	247.3	249.2	251.9	253.7		
DO (mg/l)	6.00	5.00	4.97	4.90	4.74	4.83	4.75		
Turbidity (NTU)	7	4	4	4	4	5	4		
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ✓
Oversight: N/A		
Sample ID: MSMW9A6W	Sample Time: 14:50	
MS/MSD:	Yes ☐	No ✓
Duplicate:	Yes ☐	No ✓
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RAK		

Observations

- Installed Bladder Pump @ ~18' (TIC) on 2/18/04
- Initial Purge water clear, No sediment, No Color, No Odor.
- End Purge water clear, No sediment No Color, No Odor.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RICH BIASPAMS
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 30°F

Well ID: MW-9B 11.5' SCREEN
Date: 2/18/04
FID (ppm) 0.0 AM
Time In: 1300 Time Out: 1530

Well Information

Depth to Water: (initial) (TIC)	(feet) 5.26	Time: 1344	
Depth to Water: (with equipment) (TIC)	(feet) 5.27	Time: 1402	
Depth to Water: (Final) (TIC)	(feet) 5.27	Time: 1445	
1/27/04 Total Depth: (TIC)	(feet) 13.45	Time: 1416	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 8.18		
Volume of Water in Well:	(gal) 1.3		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1410 Pump End time: 1445 (SAMPLE)
Duration of Pumping: 35 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ flow THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 0.92 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1410 1 0	1415 2 5	1420 3 10	1425 4 15	1430 5 20	1435 6 25	1440 7 30	1445 8 35	9
Volume Purged (gal)	Initial	500	1000	1500	2000	2500	3000	3500	
Rate (mL/min)	100 ml	100 ml	100	100	100	100	100	100	
Depth to Water (ft.)	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	
Color	colorless	colorless	colorless	colorless	colorless	colorless	colorless	colorless	
Temp ©	2.86	3.08	2.61	2.47	1.25	0.99	0.99	0.98	
pH	5.97	5.60	5.59	5.56	5.53	5.51	5.50	5.49	
Conductivity (mS/cm)	0.222	0.207	0.211	0.210	0.215	0.215	0.214	0.216	
ORP (mV)	221.9	222.3	219.3	218.6	218.1	218.1	217.7	217.5	
DO (mg/l)	7.44	5.42	5.37	5.28	5.80	5.76	5.71	5.81	
Turbidity (NTU)	3	3	2	2	1	1	2	1	
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: MSMW9BGW	Sample Time: 1445	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: (RBr)		

Observations

- BLADDER PUMP INSTALLED @ ~9.5' ON 2/18/04
- INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS
- SAMPLES CLEAR, COLORLESS, ODORLESS

BOX COLORS RINSE BLANK RB021804 @ 1700 USING DECONTAMINATED BLADDER PUMP, LAB PROVIDED DI H2O! GUESSIMATE

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG 10' SCREEN

BBL Personnel: (DSH)
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: SNOW, windy, 30°F

Well ID: MW-18B
Date: 2/17/04
FID (ppm) 0.0
Time In: 1015 **Time Out:** 1115

Well Information

2/18/04 Depth to Water: (initial) (TIC)	(feet) 21.83	Time: 16:27	
Depth to Water: (with equipment) (TIC)	(feet) 21.82	Time: 1031	
Depth to Water: (Final) (TIC)	(feet) 21.82	Time: 1115	
2/3/04 Total Depth: (TIC)	(feet) 28.33	Time: 1320	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 6.51		
Volume of Water in Well:	(gal) 1		

Equipment

Probe Type:	(Water Level)	Interface
Purging Method:	Bladder Pump ☒ Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1045 Pump End time: 1115 (Sample)
Duration of Pumping: 30 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100P Turbidimeter
Total Volume Removed: 1.6 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1045 1 0	1050 2 5	1055 3 10	1100 4 15	1105 5 20	1110 6 25	1115 7 30	8	9
Volume Purged (gal)	0	1000 ml	2000 ml	3000 ml	4000 ml	5000 ml	6000 ml		
Rate (mL/min)	200 ml/min	200 ml/min	200	200	200	200	200		
Depth to Water (ft.)	21.82	21.82	21.82	21.82	21.82	21.82	21.82		
Color	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless		
Temp C	9.44	10.13	10.32	10.30	10.29	10.39	10.47		
pH	5.83	5.98	6.01	6.03	6.03	6.02	6.03		
Conductivity (mS/cm)	0.296	0.297	0.300	0.300	0.300	0.301	0.296		
ORP (mV)	150.2	152.1	159.0	161.3	163.5	165.8	167.7		
DO (mg/l)	3.07	0.99	0.48	0.34	0.28	0.26	0.21		
Turbidity (NTU)	2	1	2	1	1	1	1		
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight:	N/A	
Sample ID:	GEMW18BGW	Sample Time: 1115
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID	N/A	Dup. Time: N/A
Chain of Custody Signed By:	(DSH)	

28.33
- 21.83
6.50

Observations

- INSTALLED BLADDER PUMP @ ~ 25' (TIC) ON 2/18/04
- INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS
- SAMPLED CLEAR, COLORLESS, ODORLESS

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG 5' SCREEN

BBL Personnel: R. Blasland | Well ID: MW-21C
Oversight Personnel: N/A | Date: 02-26-04
Client / Job Number: GE/100.02.074 | FID (ppm): 0.0
Weather: Mostly Clear Sunny 25° | Time In: 0655 | Time Out: 09:15

Well Information

2/25/04 Depth to Water: (initial) (TIC)	(feet)	9.60	Time: 1441
Depth to Water: (with equipment) (TIC)	(feet)	9.61	Time: 0710
Depth to Water: (Final) (TIC)	(feet)	9.63	Time: 08:30
1/29/04 Total Depth: (TIC)	(feet)	30.05	Time: 11:08
Total Depth: (TIC)	(feet)	N/A	Time: N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time: N/A
Length of Water Column:	(feet)	20.44	
Volume of Water in Well:	(gal)	3.33	

Equipment

Probe Type: Solinst | Water Level ☐ | Interface ☑
Purging Method: Bladder Pump ☑ | Other ☐
Tubing Type: Polyethylene ☐ | Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ | Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:25 | Pump End time: 08:30
Duration of Pumping: (min) 65
Average Pumping Rate: (ml/min) 230 | Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100P Turbidimeter
Total Volume Removed: (gal) 3.0 | Did well go dry: Yes ☐ No ☑

Time Elapsed MINS.	07:40 1 Ø	07:45 2 5	0750 3 10	07:55 4 15	08:00 5 20	08:05 6 25	08:10 7 30	08:15 8 35	08:20 9 40
Volume Purged (gal) ml	Ø	1150	2300	3450	4600	5750	6900	8050	9200
Rate (mL/min)	230	230	230	230	230	230	230	230	230
Depth to Water (ft.)	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63
Color	clear	clear	clear	clear	clear	Clear	Clear	clear	clear
Temp ©	9.10	9.13	9.19	9.41	9.46	9.56	9.69	9.77	9.77
pH	5.75	5.71	5.72	5.71	5.71	5.72	5.72	5.72	5.73
Conductivity (mS/cm)	Ø.361	Ø.366	Ø.361	Ø.359	Ø.360	Ø.359	Ø.359	Ø.358	Ø.358
ORP (mV)	234.5	224.3	219.4	214.9	212.8	209.1	205.5	203.6	202.5
DO (mg/l)	2.62	1.01	Ø.83	Ø.75	Ø.68	Ø.65	Ø.56	Ø.54	Ø.55
Turbidity (NTU)	3	3	2	2	2	1	2	1	1
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents	1,4 Dioxane	STL - Buffalo
~~Split~~ Sample Collect	Yes ☑	No ☑
Oversight: ~~WRC~~	Cheryl Sprague (EPA)	
Sample ID: MSMW21CGW	Sample Time: 08:30	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

- Installed Bladder Pump @ ~ 27' (TIC) on 2/25/04
- Initial purge water clear, no odor, no sediment
-

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel:	R. Blagland	Well ID:	MW-21C
Oversight Personnel:	N/A	Date:	02-26-04
Client / Job Number:	GE/100.02.074	FID (ppm)	0.0
Weather:	Mostly Sunny 25°F 0825	Time In: 0655	Time Out: 09:15

Well Information

2/26/04 Depth to Water: (initial) (TIC)	(feet)	9.60	Time:	1441
Depth to Water: (with equipment) (TIC)	(feet)	9.61	Time:	0710
Depth to Water: (Final) (TIC)	(feet)	9.63	Time:	08:30
01/29/04 Total Depth: (TIC)	(feet)	30.05	Time:	11:08
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	20.44		
Volume of Water in Well:	(gal)	3.33		

Equipment

Probe Type: Solinist	Water Level	Interface ✓	
Purging Method:	Bladder Pump ☑	Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☑	
Well Diameter:	1" ☐	2" ☑	Other:

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time:	07:25		Pump End time:	08:30
Duration of Pumping:	(min)	65		
Average Pumping Rate:	(ml/min)	230	Water-Quality Meter Type:	YSI 556 MPS w/ Flow cell + Hach 2100P Turbidimeter
Total Volume Removed:	(gal)	3.0	Did well go dry:	Yes ☐ No ☑

Time Elapsed mins.	08:25 1 45	08:30 2 50	3	4	5	6	7	8	9
Volume Purged (~~gal~~) mL	10350	11500							
Rate (mL/min)	230	230							
Depth to Water (ft.)	9.63	9.63							
Color	clear	Clear							
Temp ©	9.85	9.88							
pH	5.73	5.72							
Conductivity (mS/cm)	0.357	0.358							
ORP (mV)	201.6	200.4							
DO (mg/l)	0.54	0.48							
Turbidity (NTU)	1	2							
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents	1,4 Dioxane	STL - Buffalo
~~Split~~ Sample collect	Yes ☑	No ☐
Oversight:	C. Sprague (EPA)	
Sample ID: MSMW21CGW	Sample Time 08:30	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

End purge water, clear, no odor, color or sediment.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG 5' SCREEN

BBL Personnel: [illegible]
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: Sunny, 35°F

Well ID: MW-22A
Date: 2/25/04
FID (ppm) 0.0
Time In: 1310 **Time Out:** 1445

Well Information

Depth to Water: (initial) (TIC)	(feet) 10.02	Time: 0826	
Depth to Water: (with equipment) (TIC)	(feet) 10.00	Time: 1258	
Depth to Water: (Final) (TIC)	(feet) 10.02	Time: 1345	
2/3/04 Total Depth: (TIC)	(feet) 21.51	Time: 0940	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 11.51		
Volume of Water in Well:	(gal) 1.9 gal		

Equipment

Probe Type:	Water Level	Interface
Purging Method:	Bladder Pump ☒ Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒	Other:

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1315 Pump End time: 1345 (Sample)
Duration of Pumping: 30 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100P Turbidimeter
Total Volume Removed: 1.6 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1315 1 0	1320 2 5	1325 3 10	1330 4 15	1335 5 20	1340 6 25	1345 7 30	8	9
Volume Purged (gal)	0	1000	2000	3000	4000	5000	6000		
Rate (mL/min)	200	200	200	200	200	200	200		
Depth to Water (ft.)	10.03	9.80 10.02	10.02	10.02	10.02	10.02	10.02		
Color	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless		
Temp ©	10.02	9.80	9.65	9.78	9.73	9.70	9.71		
pH	6.20	6.04	6.02	6.00	6.00	6.00	6.00		
Conductivity (mS/cm)	0.217	0.215	0.215	0.215	0.216	0.217	0.216		
ORP (mV)	194.9	195.1	188.7	185.7	182.7	181.2	178.9		
DO (mg/l)	1.06	0.44	0.27	0.28	0.27	0.28	0.27		
Turbidity (NTU)	2	1	1	1	1	0	0		
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: MSMW22A6W	Sample Time: 1345	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	(RSIC)	

Observations

- INSTALLED BLADDER PUMP w/ DEDICATED TEFLON BLADDER @ ~19' (TIC) ON 2/25/04
- INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS
- SAMPLED CLEAR, COLORLESS, ODORLESS

RSIC COLLECTS RINSE BLANK RB022504C 1600 USING DEDICATED BLADDER PUMP, LAB PROVIDED GLASSWARE & DI H2O.

GE – Fletcher's Paint Milford, NH

Site

GROUNDWATER SAMPLING FIELD LOG 5' SCREEN

BBL Personnel: Rich Blasland
Oversight Personnel: D. Lubianez (ACE)
Client / Job Number: GE/100.02.074
Weather: Mostly Sunny 25°

Well ID: MW-22B
Date: 02-25-04
FID (ppm) 0.0
Time In: 09:20 Time Out: 1500

Well Information

Depth to Water: (initial) (TIC)	(feet) 9.80'	Time: 0748	
Depth to Water: (with equipment) (TIC)	(feet) 9.78	Time: 0938	
Depth to Water: (Final) (TIC)	(feet) 9.80	Time: 13:25	
2/3/04 Total Depth: (TIC)	(feet) 12.40	Time: 0840	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 2.6'		
Volume of Water in Well:	(gal) 0.42		

Equipment

Probe Type: Solinist Water Level Interface ✓
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 09:40 Pump End time: 13:25
Duration of Pumping: 200 (min)
Average Pumping Rate: 68 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell + HACH 2100P Turbidimeter
Total Volume Removed: 3.5 (gal) Did well go dry: Yes ☐ No ☑

Time Elapsed MINS.	10:10 1 Ø	10:15 2 5	10:20 3 10	10:25 4 15	10:30 5 20	10:35 6 25	10:40 7 30	10:45 8 35	10:50 9 40
Volume Purged (gal) ml	Ø	375	750	1125	1500	1875	2250	2625	3000
Rate (mL/min)	75	75	75	75	75	75	75	75	75
Depth to Water (ft.)	9.82	9.82	9.82	9.78	9.78	9.77	9.76	9.76	9.80
Color	LT Brown	Lt Brown	DK OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	Brown	Brown
Temp ©	6.93	7.03	7.18	7.55	7.62	7.38	7.28	7.34	7.46
pH	5.93	5.93	5.91	5.84	5.83	5.83	5.85	5.84	5.84
Conductivity (mS/cm)	Ø.437	Ø.433	Ø.429	Ø.435	Ø.451	Ø.452	Ø.448	Ø.449	Ø.452
ORP (mV)	-328.7	-335.9	-332.1	-342.9	-339.9	-339.1	-336.1	-337.3	-336.6
DO (mg/l)	1.19	1.07	Ø.97	Ø.92	Ø.23	0.99	Ø.98	Ø.93	Ø.93
Turbidity (NTU)	601	453	260	127	78	110	208	382	583
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight: D. Lubianez (ACE)		
Sample ID: MSMW22BGW	Sample Time: 13:25	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RDL		

Observations

- Installed Bladder pump @ 11.8' (TIC) on 2/25/04 w/ Dedicated Teflon Bladder
- Initial Purge water Light Brown, cloudy, fine sediment, no odor.

10:35 Cloud of sediment
10:40 Turbidity on the rise

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: Rich Blasland
Oversight Personnel: D. Lubiamez (ACE)
Client / Job Number: GE/100.02.074
Weather: Mostly Sunny 25°

Well ID: MW-22B
Date: 02-25-04
FID (ppm) 0.0
Time In: 09:20 Time Out: 1500

Well Information

Depth to Water: (initial) (TIC)	(feet) 9.80	Time: 0748	
Depth to Water: (with equipment) (TIC)	(feet) 9.78	Time: 0938	
Depth to Water: (Final) (TIC)	(feet) 9.80	Time: 13:25	
02-3-04 Total Depth: (TIC)	(feet) 12.40	Time: 0840	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 2.6		
Volume of Water in Well:	(gal) 0.42		

Equipment

Probe Type: Water Level ☐ Interface ☑
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 09:40 Pump End time: 13:25
Duration of Pumping: 200 (min)
Average Pumping Rate: 68 (ml/min) Water-Quality Meter Type: YSI 556 MPS / Flowcell / HACH 2100P Turbidimeter
Total Volume Removed: 3.5 (gal) Did well go dry: Yes ☐ No ☑

Time Elapsed mins.	11:05 ~~11:10~~ 1	11:20 2	11:30 3	11:35 4	11:40 5	11:45 6	11:50 7	11:55 8	12:00 9
	50	0:5	75	80	85	90	95	100	105
Volume Purged (~~gal~~ ml)	4050	5100	5325	5550	5775	6000	6225	6450	6675
Rate (mL/min)	70	70	45	45	45	45	45	45	45
Depth to Water (ft.)	9.80	9.80	9.76	9.76	9.80	9.80	9.80	9.80	9.80
Color	Brown	Brown	Lt Brown OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE
Temp ©	7.28	7.37	7.24	7.30	7.47	7.34	7.39	7.41	7.41
pH	5.84	5.84	5.84	5.82	5.82	5.81	5.82	5.82	5.83
Conductivity (mS/cm)	0.458	0.457	0.459	0.463	0.464	0.465	0.467	0.469	0.470
ORP (mV)	-330.7	-335.7	-333.6	-329.4	-331.4	-331.6	-331.2	-330.7	-330.3
DO (mg/l)	0.92	0.88	0.88	0.88	0.88	0.88	0.87	0.93	0.92
Turbidity (NTU)	583	201	158	122	96	78	78	78	60
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight: D. Lubiamez (ACE)		
Sample ID:	Sample Time: 13:25	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: (DJ)		

Observations

– 11:00 reduce flow to control turbidity.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: Rich Blasland
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: MOSTLY SUNNY, 25°F

Well ID: MW-22B
Date: 2/25/04
FID (ppm) 0.0
Time In: 0920 **Time Out:** 1500

Well Information

Depth to Water: (initial) (TIC)	(feet) 9.80	Time: 0748	
Depth to Water: (with equipment) (TIC)	(feet) 9.78	Time: 0938	
Depth to Water: (Final) (TIC)	(feet) 9.80	Time: 1325	
2/3/04 Total Depth: (TIC)	(feet) 12.40	Time: 0840	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 2.6'		
Volume of Water in Well:	(gal) 0.42		

Equipment

Probe Type:	Water Level	Interface
Purging Method:	Bladder Pump ☒	Other ☐
Tubing Type:	Polyethylene ☐	Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 09:40 Pump End time: 13:25

Duration of Pumping: 200 (min)

Average Pumping Rate: 68 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100P Turbidimeter

Total Volume Removed: 3.5 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	12:05 1 110	12:10 2 115	12:15 3 120	12:20 4 125	12:25 5 130	12:30 6 135	12:40 7 150	12:50 8 160	12:55 9 165
Volume Purged (gal)	6900	7125	7350	7575	7800	8225	8675	9675	10,175
Rate (mL/min)	45	45	45	45	45	45	45	100	100
Depth to Water (ft.)	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
Color	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	clear	clear	clear
Temp ©	7.45	7.45	7.46	7.66	7.41	7.30	7.43	7.48	7.43
pH	5.85	5.85	5.85	5.86	5.86	5.82	5.78	5.79	5.79
Conductivity (mS/cm)	0.470	0.469	0.470	0.468	0.468	0.463	0.477	0.476	0.476
ORP (mV)	-324.8	-324.2	-324.0	-325.9	-322.0	-321.5	-330.9	-318.6	-328.7
DO (mg/l)	1.00	0.99	0.99	0.99	1.05	1.08	0.94	0.94	0.96
Turbidity (NTU)	58	61	62	61	54	44	22	20	24
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: D. Lubiance (ACE)		
Sample ID: MSMW22BGW	Sample Time: 13:25	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	RDB	

Observations

12:45 increase flow to 100 ml/m

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel: D. Lubianez (ACE)
Client / Job Number: GE/100.02.074
Weather: Mostly Sunny / clear 25°

Well ID: MW-22B
Date: 07-25-04
FID (ppm) 0.0
Time In: 09:20 **Time Out:** 1500

Well Information

Depth to Water: (initial) (TIC)	(feet) 9.80	Time: 0748	
Depth to Water: (with equipment) (TIC)	(feet) 9.78	Time: 0938	
Depth to Water: (Final) (TIC)	(feet) 9.80	Time: 13:25	
Total Depth: (TIC)	(feet) 12.40	Time: 0840	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 2.6		
Volume of Water in Well:	(gal) 0.42		

Equipment

Probe Type: Solinist Water Level ☐ Interface ☑
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 09:40 Pump End time: 13:25
Duration of Pumping: 200 (min)
Average Pumping Rate: 68 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell + HACH 2100P Turbidimeter
Total Volume Removed: 35 (gal) Did well go dry: Yes ☐ No ☑

Time Elapsed MINS.	13:00 1 170	13:05 2 175	13:10 3 180	13:15 4 185	13:20 5 190	13:25 6 200	7	8	9
Volume Purged (gal) mL	10,675	11,175	11,675	12,175	12,675	13,175			
Rate (mL/min)	100	100	100	100	100	100			
Depth to Water (ft.)	9.80	9.80	9.80	9.80	9.80	9.80			
Color	Clear	Clear	Clear	Clear	Clear	Clear			
Temp ©	7.38	7.34	7.34	7.39	7.33	7.47			
pH	5.78	5.78	5.78	5.79	5.79	5.80			
Conductivity (mS/cm)	0.481	0.481	0.477	0.478	0.481	0.475			
ORP (mV)	-326.0	-324.4	-326.1	-326.8	-327.3	-327.5			
DO (mg/l)	0.99	1.08	1.01	1.01	0.99	1.06			
Turbidity (NTU)	18	18	16	13	12	14			
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight: D. Lubianez (ACE)		
Sample ID:	Sample Time: 13:25	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: DJL		

Observations

well from Hell

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: (DJ)
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: Sunny, 30°F AM

Well ID: MW-22C
Date: 2/25/04
FID (ppm) 0.0
Time In: 0715 Time Out: 1310

Well Information

Depth to Water: (initial) (TIC)	(feet)	11.12	Time: 0730
Depth to Water: (with equipment) (TIC)	(feet)	9.81	Time: 0745
Depth to Water: (Final) (TIC)	(feet)	13.65	Time: 1015
1/30/04 Total Depth: (TIC)	(feet)	42.7'	Time: 0838
Total Depth: (TIC)	(feet)	N/A	Time: N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time: N/A
Length of Water Column:	(feet)	31.58	
Volume of Water in Well:	(gal)	5.1	

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0810 Pump End time: 1015 (Sampled)
Duration of Pumping: 125 (min)
Average Pumping Rate: 25 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100 A Turbidimeter
Total Volume Removed: 0.9 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0810 1 0	0815 2 5	0820 3 10	0830 4 20	0840 5 30	0850 6 40	0900 7 50	0915 8 65	0930 9 80
Volume Purged (gal)	0	500 ml	750 ml	1150 ml	1350 ml	1600 ml	1850	2000	2325
Rate (mL/min)	100	50	30	30	30	25	25	25	25
Depth to Water (ft.)	12.55	13.52	13.84	14.00	14.08	14.06	14.00	13.91	13.80
Color	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless
Temp ©	5.77	6.54	6.03	5.30	5.21	5.18	5.31	5.41	5.62
pH	9.43	9.70	9.70	9.70	9.68	9.69	9.70	9.71	9.71
Conductivity (mS/cm)	0.396	0.399	0.399	0.400	0.400	0.400	0.400	0.396	0.394
ORP (mV)	154.5	134.6	131.9	129.1	127.4	124.7	123.1	121.8	119.4
DO (mg/l)	14.04	9.59	9.12	8.94	7.66	6.80	6.36	5.22	4.67
Turbidity (NTU)	19	14	13	12	10	9	9	11	10
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: MS/MW22CGW	Sample Time: 1015	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: (DJ)		

Observations

- INSTALLED BLADDER PUMP w/ DEDICATED TEFLON BLADDER – 38' (TIC) ON 2/25/04. THIS DEPTH CORRESPONDS w/ LOWEST RQD% w/ ROCK CORING & MIDDLE OF SCREENED INTERVAL
- INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS
- SAMPLED CLEAR, COLORLESS, ODORLESS

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: DJB
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: Sunny, 30°F AM

Well ID: MW-22C
Date: 2/25/04
FID (ppm)
Time In: 0715 Time Out: 1310

Well Information

Depth to Water: (initial) (TIC)	(feet) 11.12	Time: 0730	
Depth to Water: (with equipment) (TIC)	(feet) 9.81	Time: 0745	
Depth to Water: (Final) (TIC)	(feet) 13.65	Time: 1015	
1/30/04 Total Depth: (TIC)	(feet) 42.7	Time: 0830	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 31.58		
Volume of Water in Well:	(gal) 5.1		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0810 Pump End time: 1015 (Sample)
Duration of Pumping: 125 (min)
Average Pumping Rate: 25 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ flow THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 0.9 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1	2	3	4	5	6	7	8	9
	0945 95	1000 110	1015 125						
Volume Purged (gal)	250 ml	3125 ml	3500 ml						
Rate (mL/min)	25	25	25						
Depth to Water (ft.)	13.75	13.71	13.65						
Color	Colorless	Colorless	Colorless						
Temp ©	6.04	6.49	6.72						
pH	9.73	9.73	9.74						
Conductivity (mS/cm)	0.391	0.388	0.387						
ORP (mV)	117.2	115.1	113.2						
DO (mg/l)	4.41	4.23	4.13						
Turbidity (NTU)	9	8	8						
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: MSMW22C GW	Sample Time: 1015	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: DJB		

Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: (DAK)
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 10° F AM

Well ID: MW-23A
Date: 2/12/04
FID (ppm) 0.0
Time In: 0740 Time Out:

Well Information

2/11/04	Depth to Water: (initial) (TIC)	(feet) 13.89	Time: 1516	
	Depth to Water: (with equipment) (TIC)	(feet) 13.91	Time: 0755	
	Depth to Water: (Final) (TIC)	(feet)	Time:	
1/28/04	Total Depth: (TIC)	(feet) 25.71	Time: 1015	
	Total Depth: (TIC)	(feet) N/A	Time: N/A	
	Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
	Length of Water Column:	(feet) 11.8		
	Volume of Water in Well:	(gal) 1.9		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump [X] Other ____ [ ]
Tubing Type: Polyethylene [ ] Teflon lined [X]
Well Diameter: 1" [ ] 2" [X] Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0820 Pump End time: 1030 (SAMPLE)
Duration of Pumping: (min)
Average Pumping Rate: (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ FLOW THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: (gal) Did well go dry: Yes [ ] No [ ]

Time Elapsed	Initial 1	15 2	30 3	45 4	60 5	75 6	90 7	105 8	120 9
	0830	0845	0900	0915	0930	0945	1000	1015	1030
Volume Purged (gal)	INITIAL	465 ml	930 ml	1395 ml	1860 ml	2325 ml	2790	3255	
Rate (mL/min)	31 ml/min	31 ml/min	31 ml/min	31 ml/min	31 ml/min	31 ml/min	31 ml/min	31 ml/min	31 ml/min
Depth to Water (ft.)	13.90	13.90	13.90	13.90	13.90	13.90	13.90	13.90	13.90
Color	COLORLESS	COLORLESS	COLORLESS	COLORLESS	COLORLESS	COLORLESS	COLORLESS	COLORLESS	COLORLESS
Temp ©	2.94	3.43	2.57	2.85	3.56	3.25	3.34	3.28	3.32
pH	5.69	5.60	5.55	5.57	5.60	5.61	5.62	5.62	5.63
Conductivity (mS/cm)	0.291	0.279	0.280	0.277	0.281	0.281	0.281	0.279	0.280
ORP (mV)	124.5	124.0	122.6	*125.6	*125.0	125.6	126.3	126.6	125.5
DO (mg/l)	1.46	1.22	1.19	0.97	0.84	0.95	1.13	0.93	0.91
Turbidity (NTU)	8	8	9	7	4	4	3	3	3
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes [X]	No [ ]
Oversight: DAVE L. (USACE)		
Sample ID: MSMW23A 6W	Sample Time: 1050 (DAK)	
MS/MSD:	Yes [ ]	No [X]
Duplicate:	Yes [ ]	No [X]
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: (DAK)		

Observations

- INSTALLED BLADDER PUMP w/ DEDICATED TEFLON BLADDER @ 23' (BTOC) ON 2/11/04
- INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS
- FINAL PURGE H2O CLEAR, COLORLESS, ODORLESS

* ABANDON SAMPLING @ 1200, CHANGE IN SAMPLING PLAN AS PER USACE, NO SAMPLE COLLECTED

TURB 10% OR 1NTU <10 / DO 10% OR .1 <1 / SC 3% / ORP 10mV / pH .1

J:\DDL\GE\gw_sampling_form.doc

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: DOK, R. DIASLAUD
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 25°/AM

Well ID: MW-23A
Date: 2/13/04
FID (ppm) 0.0
Time In: 07:00 Time Out: 11:40

Well Information

2/11/04	Depth to Water: (initial) (TIC)	(feet) 13.89	Time: 1516
	Depth to Water: (with equipment) (TIC)	(feet) 13.91	Time: 7:19
	Depth to Water: (Final) (TIC)	(feet) 13.92	Time: 0835
1/28/04	Total Depth: (TIC)	(feet) 25.71	Time: 1005
	Total Depth: (TIC)	(feet) N/A	Time: N/A
	Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A
	Length of Water Column:	(feet) 11.8	
	Volume of Water in Well:	(gal) 1.9	

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:25 Pump End time: 0835 (SAMPLE)
Duration of Pumping: 70 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPSW/FLOW THROUGH CELL/HACH 2100P TURBIDIMETER
Total Volume Removed: 3.4 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1	2	3	4	5	6	7	8	9
	07:30	07:35	07:40	07:45	07:50	07:55	08:00	0805	0810
Volume Purged (~~gal~~) mL	1000	2000	3000	3500	4000	5000	6000	7000	8000
Rate (mL/min)	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	13.91	13.91	13.91	13.91	13.91	13.91	13.91	13.91	13.91
Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Temp °	9.12	9.46	9.46	9.44	9.43	9.45	9.46	9.52	9.49
pH	5.76	5.79	5.76	5.74	5.79	5.79	5.53	5.17	5.14
Conductivity (mS/cm)	0.261	0.257	0.256	0.254	0.253	0.252	0.252	0.251	0.252
ORP (mV)	-305.5	-344.1	-346.5	-365.6	-358.9	-358.3	-352.8	-360.8	-358.0
DO (mg/l)	3.00	1.01	0.77	0.64	0.56	0.57	0.42	0.38	0.38
Turbidity (NTU)	24	17	16	15	14	11	9	8	8
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. USACE		
Sample ID: MSMW23A(GW)	Sample Time: 08:35	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

- INSTALLED BLADDER PUMP w/ DEDICATED TEFLON BLADDER @ ~23' TIC ON 2/11/04
- Initial Water Purge clear, no sediment no odor.
- End Purge & Sample water clear no sediment, no odor.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel: DAVE L (USACE)
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 25°F AM

Well ID: MW-23A
Date: 2/13/04
FID (ppm) 0.0
Time In: 07:00 **Time Out:** 11:40

Well Information

Depth to Water: (Initial) (TIC)	(feet) 13.89	Time: 1516	
Depth to Water: (with equipment) (TIC)	(feet) 13.91	Time: 0719	
Depth to Water: (Final) (TIC)	(feet) 13.92	Time: 0835	
Total Depth: (TIC)	(feet) 25.71	Time: 1015	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 11.8		
Volume of Water in Well:	(gal) 1.9		

Equipment

Probe Type:	Water Level	Interface
Purging Method:	Bladder Pump ☒ Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0725 Pump End time: 0835 (SAMPLE)
Duration of Pumping: 70 (min)
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ HOYTLAKE CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 3.4 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1	2	3	4	5	6	7	8	9
	0815	0820	0825	08:30	08:35				
Volume Purged (~~gal~~) mL	9000	10,000	11,000	12,000	13,000				
Rate (mL/min)	200	200	200	200	200				
Depth to Water (ft.)	13.91	13.91	13.91	13.92	13.92				
Color	clear	clear	clear	clear	clear				
Temp ©	9.52	9.55	9.47	09.50	9.51				
pH	5.21	5.22	4.75	4.60	4.79				
Conductivity (mS/cm)	0.252	0.253	0.252	0.252	0.253				
ORP (mV)	358.1	-383.1	-370.2	-373.9	-378.0				
DO (mg/l)	0.35	0.32	0.30	0.30	0.27				
Turbidity (NTU)	6	6	5	4	5				
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: MSMW23A(W)	Sample Time: 8:35	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RDM
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 10°F AM

Well ID: MW-23B
Date: 2/12/04
FID (ppm) 0.0
Time In: 0940 **Time Out:**

Well Information

2/11/04 Depth to Water: (initial) (TIC)	(feet)	13.88	Time:	1520
Depth to Water: (with equipment) (TIC)	(feet)	13.82	Time:	0801
Depth to Water: (Final) (TIC)	(feet)		Time:	
1/22/04 Total Depth: (TIC)	(feet)	17.53	Time:	1230
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	3.71		
Volume of Water in Well:	(gal)	0.6		

Equipment

Probe Type:	Water Level	Interface
Purging Method:	Bladder Pump ☒ Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0900 Pump End time:

Duration of Pumping: (min)

Average Pumping Rate: (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100P Turbidimeter

Total Volume Removed: (gal) Did well go dry: Yes ☐ No ☐

Time Elapsed	INITIAL 1	15 2	30 3	45 4	60 5	75 6	90 7	8	9
	1005	1020	1035	1050	1105	1120	1135		
Volume Purged (gal)	INITIAL	540 ml	1080	1620	2160				
Rate (mL/min)	36 ml/min	36 ml/min	36 ml/min	36 ml/min	36 ml/min	36 ml/min			
Depth to Water (ft.)	13.82	13.83	13.83	13.83	13.83	13.83	13.83		
Color	Yellow Brown	Yellow Brown	Yellow Brown	Lt. Brown	OPAQUE	OPAQUE	OPAQUE		
Temp ©	4.71	4.58	4.23	4.47	4.56	3.69	3.48		
pH	5.44	5.42	5.40	5.38	5.37	5.46	5.35		
Conductivity (mS/cm)	0.757	0.757	0.752	0.746	0.742	0.747	0.737		
ORP (mV)	-358.2	-371.9	-325.9	-384.3	-388.6	-393.8	-306.0		
DO (mg/l)	1.09	0.70	0.61	0.54	0.48	0.44	0.45		
Turbidity (NTU)	287	266	216	109	109	61			
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight:	DAVE L. (USACE)	
Sample ID: MSMW23B6W	Sample Time:	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	RDM	

Observations

- INSTALLED BLADDER PUMP w/ DEDICATED TEFLON BLADDER @ ~ 15.7' (TOC) ON 2/11/04
- 0900 - 1005 PUMP RUNNING, NO PARAMETERS, NEED TO ADJUST DRIZZ ON FLOW THROUGH CELL.
- INITIAL PURGE H2O YELLOW BROWN, TURBID, ODORLESS

* ABANDON SAMPLING @ 1200, CHANGE IN SAMPLING PLAN AS PER USACOE, NO SAMPLE COLLECTED

J:\JDL\GE\gw_sampling_form.doc

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RJK, R. Blasland
Oversight Personnel: ~~RJK, R. Blasland~~ DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 25°F

Well ID: MW-23B
Date: 2/12/04
FID (ppm) 0.0
Time In: 0700 Time Out: ~~1130~~ 1140

Well Information

2/11/04	Depth to Water: (Initial) (TIC)	(feet) 13.88	Time: 1500
	Depth to Water: (with equipment) (TIC)	(feet) 13.88	Time: 0707
	Depth to Water: (Final) (TIC)	(feet)	Time:
1/22/04	Total Depth: (TIC)	(feet) 17.53	Time: 1230
	Total Depth: (TIC)	(feet) N/A	Time: N/A
	Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A
	Length of Water Column:	(feet) 3.65	
	Volume of Water in Well:	(gal) 0.6	

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0735 Pump End time: 1015 (SAMPLE)
Duration of Pumping: 160 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ FLOW THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 5 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	INITIAL 1 0	0740 2 5	0745 3 10	0750 4 15	0755 5 20	0800 6 25	0805 7 30	0810 8 35	0815 9 40
Volume Purged (gal)	INITIAL	500	1000	1500	2000	2500	3000	3500	4000
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	13.90	13.90	13.90	13.90	13.90	13.90	13.90	13.90	13.90
Color	Yellow Brown	Yellow Brown	Yellow Brown	Yellow Brown	Yellow Brown	Yellow Brown	Yellow Brown	Yellow Brown	Yellow Brown
Temp ©	7.13	7.20	6.76	6.13	5.48	5.35	5.30	5.50	5.37
pH	5.55	5.52	5.52	5.52	5.50	5.49	5.48	5.49	5.50
Conductivity (mS/cm)	0.720	0.757	0.759	0.760	0.755	0.750	0.748	0.743	0.738
ORP (mV)	187.7	181.8	179.9	178.5	177.6	176.8	176.2	175.0	173.1
DO (mg/l)	9.05	2.38	1.66	1.34	1.11	0.97	0.96	0.95	0.82
Turbidity (NTU)	294	342	342	347	357	326	302	271	231
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: MSNMW23B(W)	Sample Time: 1015	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RJK		

Observations

- INSTALLED BLADDER PUMP W/ DEDICATED TEFLON BLADDER @ ~15.7' (TIC) ON 2/11/04
- INITIAL PURGE H2O YELLOW BROWN, TURBID, ODORLESS
- FINAL PURGE H2O CLEAR, COLORLESS, ODORLESS

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel:	ADK / R. BISSIANO	Well ID:	MW-23B
Oversight Personnel:	DAVE L. (USACE)	Date:	2/13/04
Client / Job Number:	GE/100.02.074	FID (ppm)	0.0
Weather:	OVERCAST, 25°F	Time In: 0700	Time Out: 1530, 1400

Well Information

2/11/04	Depth to Water: (initial) (TIC)	(feet)	13.88	Time: 1520
	Depth to Water: (with equipment) (TIC)	(feet)	13.88	Time: 0709
	Depth to Water: (Final) (TIC)	(feet)		Time:
1/22/04	Total Depth: (TIC)	(feet)	17.53	Time: 1230
	Total Depth: (TIC)	(feet)	N/A	Time: N/A
	Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time: N/A
	Length of Water Column:	(feet)	3.65	
	Volume of Water in Well:	(gal)	0.6	

Equipment

Probe Type:	Water Level	Interface	
Purging Method:	Bladder Pump ☒	Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☒	
Well Diameter:	1" ☐	2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time:	0735	Pump End time:	1015 (SAMPLE)
Duration of Pumping:	160 (min)		
Average Pumping Rate:	100 (ml/min)	Water-Quality Meter Type:	YSI 556 MPS w/ FLOW THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed:	5 (gal)	Did well go dry:	Yes ☐ No ☒

Time Elapsed	0820 1 45	0825 2 50	0830 3 55	0835 4 60	0845 5 70	0855 6 80	0905 7 90	0915 8 100	0925 9 110
Volume Purged (gal)	4500	5000	5500	6000	7000	8000	9000	10,000	11,000
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	13.90	13.90	13.90	13.90	13.90	13.90	13.90	13.90	13.90
Color	Lt Brown	Lt Brown	Lt. Brown	Lt. Brown	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE
Temp ©	6.17	6.46	6.78	7.35	7.86	7.58	7.81	8.41	8.26
pH	5.50	5.50	5.50	5.50	5.51	5.52	5.52	5.54	5.55
Conductivity (mS/cm)	0.731	0.727	0.725	0.718	0.713	0.704	0.690	0.672	0.653
ORP (mV)	171.7	171.1	170.0	168.2	165.6	164.4	163.6	159.3	146.5
DO (mg/l)	0.81	0.77	0.64	0.54	0.48	0.40	0.46	0.39	0.35
Turbidity (NTU)	188	168	151	130	117	100	73	78	62
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: MSMW23BGW	Sample Time: 1015	
MS/MSD: Yes ☐	No ☒	
Duplicate: Yes ☐	No ☒	
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: BJC / R. BIGSLAND
Oversight Personnel: DAVE L. (USACE)
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 25°F AM

Well ID: MW-23B
Date: 2/13/04
FID (ppm) 0.0
Time In: 0700 Time Out: 11:40

Well Information

2/11/04 Depth to Water: (Initial) (TIC)	(feet) 13.88	Time: 1520	
Depth to Water: (with equipment) (TIC)	(feet) 13.88	Time: 0709	
Depth to Water: (Final) (TIC)	(feet) 13.85	Time:	
1/12/04 Total Depth: (TIC)	(feet) 17.53	Time: 1230	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 3.65		
Volume of Water in Well:	(gal) 0.6		

Equipment

Probe Type:	(Water Level) Interface
Purging Method:	Bladder Pump ☒ Other ☐
Tubing Type:	Polyethylene ☐ Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0735 Pump End time: 1015 (SAMPLE)
Duration of Pumping: 160 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ FLOW THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 5 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0935 1	0945 2	0955 3	10:00 4	10:05 5	10:10 6	10:15 7	8	9
	120	130	140	145	150	155	160		
Volume Purged (gal)	12,000	13,000	15000	16,000	17,000	18,000	19,000		
Rate (mL/min)	100	100	100	100	100	100	100		
Depth to Water (ft.)	13.90	13.90	13.90	13.90	13.92	13.92	13.92		
Color	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE		
Temp ©	8.65	8.53	8.34	8.27	8.48	8.37	8.19		
pH	5.55	5.55	5.55	5.55	5.55	5.56	5.56		
Conductivity (mS/cm)	0.649	0.641	0.635	0.634	0.629	0.627	0.624		
ORP (mV)	144.8	144.3	140.7	139.8	136.8	136.2	134.2		
DO (mg/l)	0.39	0.39	0.37	0.37	0.37	0.39	0.36		
Turbidity (NTU)	58	52	52	43	39	35	32		
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: DAVE L. (USACE)		
Sample ID: MSMW23B6W	Sample Time: 10:15	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RDS
Oversight Personnel: YURI YATSEVITCH (USACE)
Client / Job Number: GE/100.02.074
Weather: Sunny, 10's-Am

Well ID: MW-23C
Date: 2/17/04
FID (ppm) 0.0
Time In: 0700 **Time Out:** 1010

Well Information

2/16/04 Depth to Water: (initial) (TIC)	(feet)	14.01	Time:	1514
Depth to Water: (with equipment) (TIC)	(feet)	14.04	Time:	0721
Depth to Water: (Final) (TIC)	(feet)	14.04	Time:	0820
1/28/04 Total Depth: (TIC)	(feet)	45.02	Time:	1150
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	30.98		
Volume of Water in Well:	(gal)	5		

Equipment

Probe Type:	Water Level	Interface
Purging Method:	Bladder Pump ☒ Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0740 Pump End time: 0820 (Sample)
Duration of Pumping: 40 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell / HACH 2100P Turbidimeter
Total Volume Removed: 1 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0 1	5 2	10 3	15 4	20 5	25 6	30 7	35 8	40 9
	0740	0745	0750	0755	0800	0805	0810	0815	0820
Volume Purged (gal)	Initial	500	1000	1500	2000	2500	3000	3500	4000
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	14.04	14.04	14.04	14.04	14.04	14.04	14.04	14.04	14.04
Color	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless
Temp ©	8.26	7.15	7.00	6.99	7.22	7.31	7.45	7.40	7.35
pH	5.56	5.60	5.62	5.65	5.67	5.67	5.68	5.68	5.68
Conductivity (mS/cm)	1.023	1.017	1.019	1.016	1.015	1.013	1.014	1.018	1.019
ORP (mV)	266.1	260.8	255.1	249.2	243.6	240.7	236.9	234.3	232.0
DO (mg/l)	4.13	2.96	3.00	2.62	2.17	1.98	1.73	1.70	1.65
Turbidity (NTU)	8	8	5	3	2	1	1	1	1
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☒	No ☐
Oversight: YURI YATSEVITCH (USACE)		
Sample ID: MSMW23CGW	Sample Time: 0820	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RDS		

Observations

- INSTALLED BLADDER PUMP w/ DEDICATED TEFLON BLADDER @ ~35' (TIC) ON 2/16/04. (BASED ON RQD% : H2O LOSS DURING DRILLING)
- INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS
- SAMPLES CLEAR, COLORLESS, ODORLESS

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Cloudy 18°

Well ID: MW-24A
Date: 02-12-04
FID (ppm) N/D
Time In: 07:20 **Time Out:**

Well Information

2/11/04 Depth to Water: (initial) (TIC)	(feet)	13.93	Time:	1440
Depth to Water: (with equipment) (TIC)	(feet)	13.99	Time:	08:06
Depth to Water: (Final) (TIC)	(feet)	13.99	Time:	11:50
1/22/04 Total Depth: (TIC)	(feet)	25.07	Time:	0900
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	11.08		
Volume of Water in Well:	(gal)	1.8		

Equipment

Probe Type: Solinist — Water Level — Interface ✓

Purging Method: Bladder Pump ☑ — Other ☐

Tubing Type: Polyethylene ☐ — Teflon lined ☑

Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 08:06 — Pump End time: 11:30

Duration of Pumping: (min) 114

Average Pumping Rate: (ml/min) 120 — Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell + Hach 2100P Turb

Total Volume Removed: (gal) 3.5 (with samples) — Did well go dry: Yes ☐ No ☑

Time Elapsed	1	2	3	4	5	6	7	8	9
	0835	0850	0905	0920	0935	0950	1030	10:45	
Volume Purged ~~(gal)~~ mL	870	1320	1770	2220	2670	3120	3570	4020	
Rate (mL/min)	30	30	30	30	30	30	30	30	
Depth to Water (ft.)	13.99	13.99	13.99	13.99	13.99	13.99	13.99	13.99	
Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Temp ©	4.14	2.50	1.18	0.80	0.59	0.40	1.76	3.29	
pH	5.79	5.75	5.77	5.77	5.76	5.76	5.80	5.85	
Conductivity (mS/cm)	0.439	0.447	0.454	0.456	0.457	0.458	0.454	0.455	
ORP (mV)	-39.4	-36.8	-30.0	-24.9	-23.3	-22.1	-21.8	-21.0	
DO (mg/l)	1.36	1.73	1.77	1.80	1.77	1.74	1.73	1.76	
Turbidity (NTU)	18	18	13	10	10	7	7	8	
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID:	Sample Time: 11:30 (MS)	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: N/A		

Observations

- Installed Bladder Pump w/ Disposable Teflon Bladder @ ~22.5' bgs on 2/11/04
- Initial water very slightly cloudy cleared up quickly – No Sediment
- Stop Work – Dispose of Samples as per Ron Kuhn. As per Meeting BBL/EPA Purge Rate GPM Change

SEE PAGE 2 FOR SAMPLE INFO.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: PARTLY to Mostly Cloudy 25°

Well ID: MW-24A
Date: 02-12-04
FID (ppm) N/D
Time In: 07:20 **Time Out:** 1500

Well Information

Depth to Water: (initial) (TIC)	(feet) 13.93	Time: 14:40 (2/10)	
Depth to Water: (with equipment) (TIC)	(feet) 13.99	Time: 0806	
Depth to Water: (Final) (TIC)	(feet) 13.99	Time: 1345	
Total Depth: (TIC)	(feet) 25.07	Time: 0900	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 11.08		
Volume of Water in Well:	(gal) 1.8		

Equipment

Probe Type: Solinist — Water Level ☑ — Interface ☑

Purging Method: Bladder Pump ☐ Other ☐

Tubing Type: Polyethylene ☐ Teflon lined ☑

Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 13:00 Pump End time: 14:00

Duration of Pumping: (min) 60

Average Pumping Rate: (ml/min) 120 Water-Quality Meter Type: YSI 556 MPS w/ Flow cell + HACH 2100P TURB.

Total Volume Removed: (with samples) (gal) 1.86 Did well go dry: Yes ☐ No ☑

Time Elapsed	1	2	3	4	5	6	7	8	9
	0	120	240	360	480				
Volume Purged (~~gal~~) mL	13:15	13:30	13:35	13:40	13:45				
Rate (mL/min)	120	120	120	120	120				
Depth to Water (ft.)	13.99	13.99	13.99	13.99	13.99				
Color	Clear	Clear	Clear	Clear	Clear				
Temp ©	6.46	9.91	9.05	8.89	8.74				
pH	6.16	6.21	6.00	6.23	6.15				
Conductivity (mS/cm)	0.48	0.462	0.467	0.466	0.464				
ORP (mV)	-35.0	-52.3	-51.6	-49.9	-49.3				
DO (mg/l)	3.17	0.66	0.59	0.56	0.53				
Turbidity (NTU)	10	12	7	7	8				
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: MSMW24AGW	Sample Time: 14:00	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	RDF	

Observations

Initial Water clear, No Sediment
End Purge + Sample, water clear
no Odor, no sediment.
RDK Collects Rinse Blank RB021204 using Decoupled Bladder Pump, LAB Provided DI H2O; 6145 Sample @ 1600

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland | **Well ID:** MW-24B
Oversight Personnel: | **Date:** 02-12-04
Client / Job Number: GE/100.02.074 | **FID (ppm)** N/D
Weather: Mostly Cloudy 18° | **Time In:** 07:20 **Time Out:**

Well Information

2/11/04	Depth to Water: (initial) (TIC)	(feet)	14.14	Time: 1441
	Depth to Water: (with equipment) (TIC)	(feet)	N/A	Time:
	Depth to Water: (Final) (TIC)	(feet)		Time:
1/23/04	Total Depth: (TIC)	(feet)	16.58	Time: 0830
	Total Depth: (TIC)	(feet)	N/A	Time: N/A
	Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time: N/A
	Length of Water Column:	(feet)		
	Volume of Water in Well:	(gal)		

Equipment

Probe Type: Solinst | Water Level | Interface

Purging Method: Bladder Pump ☐ Other ☐

Tubing Type: Polyethylene ☐ Teflon lined ☐

Well Diameter: 1" ☐ 2" ☐ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 08:50 | Pump End time:

Duration of Pumping: (min)

Average Pumping Rate: (ml/min) | Water-Quality Meter Type:

Total Volume Removed: (gal) | Did well go dry: Yes ☐ No ☐

Time Elapsed	1	2	3	4	5	6	7	8	9
	10:35	11:05	11:20	11:35	11:50				
Volume Purged (~~gal~~) mL	450	1350	1800	2250	2700				
Rate (mL/min)	30	30	30	30	30				
Depth to Water (ft.)	N/A	N/A	N/A	N/A	N/A				
Color	DK Brown	clear	clear	Clear	clear				
Temp ©	5.53	3.31	2.74	5.64	4.02				
pH	5.49	5.45	5.66	5.49	5.14				
Conductivity (mS/cm)	0.116	0.118	0.115	0.094	0.093				
ORP (mV)	215.4	199.7	196.0	204.4	219.4				
DO (mg/l)	5.62	5.89	5.43	5.41	5.56				
Turbidity (NTU)	79	8	44	31	21				
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☐
Oversight:		
Sample ID:	Sample Time:	
MS/MSD:	Yes ☐	No ☐
Duplicate:	Yes ☐	No ☐
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

12:30 (WORK STOPS Abandon well as per BBL/EPA will set up @ LABORATORY, CHANGE IN SAMPLING PLAN.)

Observations

- INSTALLED BLADDER PUMP w/ DEDICATED TEFLON BLADDER @ ~ 15.5' (TIC) 02/11/04.
- Initial water clear, No sediment
- 07:40 Purge water in well tubing appears to have frozen. Temp in YSI CELL 0.16 (No Fill in minutes.)
- Applied heat to un freeze Lines and cell. 10:02 Pumping into cell.

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland | **Well ID:** MW-24B
Oversight Personnel: N/A | **Date:** 02-17-04
Client / Job Number: GE/100.02.074 | **FID (ppm)**
Weather: Mostly Clear Sunny 0s° | **Time In:** 06:55 **Time Out:** 14:00

Well Information

Depth to Water: (initial) (TIC)	(feet) 14.29	Time: 10:10	
Depth to Water: (with equipment) (TIC)	(feet) N/A	Time: N/A	
Depth to Water: (Final) (TIC)	(feet) /	Time:	
Total Depth: (TIC)	(feet) 16.68	Time: 10:00	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 2.39		
Volume of Water in Well:	(gal) 0.39		

Equipment

Probe Type: Solinst — Water Level ☐ Interface ☑
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 08:40 / Re-Start 11:40 — Pump End time: First End 09:40 / 2nd End 13:05
Duration of Pumping: (min) 85
Average Pumping Rate: (ml/min) 100 — Water-Quality Meter Type: YSI 556 MPS w/ Flow cell HACH 2100P (Turb.)
Total Volume Removed: (gal) 2.2 — Did well go dry: Yes ☐ No ☑

Time Elapsed (MINS.)	0 1 12:10	5 2 12:15	10 3 12:20	15 4 12:25	20 5 12:30	25 6 12:35	30 7 12:40	35 8 12:45	40 9 12:50
Volume Purged (~~gal~~) ml	700 0	100	200	300	400	500	600	700	800
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Color	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	clear	clear	clear
Temp ©	8.35	8.36	8.48	8.43	8.45	8.57	8.68	8.68	8.73
pH	5.26	5.24	5.14	5.05	4.98	4.99	4.99	5.00	4.99
Conductivity (mS/cm)	0.099	0.099	0.096	0.092	0.089	0.088	0.088	0.088	0.089
ORP (mV)	207.7	207.7	215.4	223.7	235.9	239.5	244.1	246.8	248.4
DO (mg/l)	5.79	5.86	5.90	6.17	6.22	6.50	6.79	7.06	7.29
Turbidity (NTU)	124	131	103	70	28	18	13	10	9
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: MSMW24BGW	Sample Time: 1305	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Re-start

11:40 initial Purge water cloudy OPAQUE.

Observations

Pump has been running for 30 mins. has not produce Flow.
09:31 ICE Lock Free begin to adjust Flow
09:40 ~~100~~ 80 ml/m adjust to 100 @ Low Submerg. Back wash, loose Flow cell Fill.
09:50 Pulled Pump and check bailer/Bladder Bladder filled with Sand!!

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Clear/Sunny – 11° Clouding up

Well ID: MW-24B
Date: 02-17-04
FID (ppm) 0.0
Time In: ~~8:55~~ **Time Out:** 14:00

Well Information

Depth to Water: (initial) (TIC)	(feet) 14.29	Time: 10:10	
Depth to Water: (with equipment) (TIC)	(feet) N/A	Time: N/A	
Depth to Water: (Final) (TIC)	(feet) N/A	Time: N/A	
Total Depth: (TIC)	(feet) 16.68	Time: 10:00	
Total Depth: (TIC)	(feet) —	Time: —	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 2.39		
Volume of Water in Well:	(gal) 0.39		

Equipment

Probe Type: Solinist — Water Level ☐ — Interface ☑

Purging Method: Bladder Pump ☑ — Other ☐

Tubing Type: Polyethylene ☐ — Teflon lined ☑

Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 11:40 — Pump End time: 13:05

Duration of Pumping: (min) 85

Average Pumping Rate: (ml/min) 100 — Water-Quality Meter Type: YSI 556 MPS w/ Flow Cell HACH 2100P (Turb.)

Total Volume Removed: (gal) 2.2 — Did well go dry: Yes ☐ No ☑

MINS. Time Elapsed	45 1 12:55	50 2 13:00	55 3 13:05	4	5	6	7	8	9
Volume Purged (~~gal~~) mL	900	1000	1100						
Rate (mL/min)	100	100	100						
Depth to Water (ft.)	N/A	N/A	N/A						
Color	clear	clear	clear						
Temp ©	8.76	8.78	8.78						
pH	5.02	5.04	5.03						
Conductivity (mS/cm)	0.090	0.090	0.090						
ORP (mV)	248.5	247.7	248.9						
DO (mg/l)	7.69	7.78	7.75						
Turbidity (NTU)	7	8	7						
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: MW24BGW	Sample Time: 13:05	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	RAB	

Observations

– 12:58 Purge water No Color, No sediment No odor.

– End Purge Water No Color, Odor, Sediment. Clear.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel:	R. Blasland	Well ID:	MW-24C
Oversight Personnel:	N/A	Date:	02-17-04
Client / Job Number:	GE/100.02.074	FID (ppm)	0.0
Weather:	Mostly Clear Sunny 05° - 20°	Time In:	0655 Time Out:

Well Information

2/16/04	Depth to Water: (initial) (TIC)	(feet)	14.21'	Time: 1505
	Depth to Water: (with equipment) (TIC)	(feet)	14.30	Time: 07:10
	Depth to Water: (Final) (TIC)	(feet)	14.09	Time: 08:30
1/29/04	Total Depth: (TIC)	(feet)	46.5'	Time: 0830
	Total Depth: (TIC)	(feet)	N/A	Time: N/A
	Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time: N/A
	Length of Water Column:	(feet)	32	
	Volume of Water in Well:	(gal)	5.22	

Equipment

Probe Type:	Solinest	Water Level ✓	Interface ✓
Purging Method:		Bladder Pump ☑	Other ☐
Tubing Type:		Polyethylene ☐	Teflon lined ☑
Well Diameter:		1" ☐	2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time:	07:12	Pump End time:	07:55
Duration of Pumping:	(min) 47		
Average Pumping Rate:	(ml/min) 100	Water-Quality Meter Type:	YSI 556 MPS w/ Flow cell HACH 2100P (Turb)
Total Volume Removed:	(gal) 1.21	Did well go dry:	Yes ☐ No ☑

Time Elapsed Mins.	07:30 1 0	07:35 2 5	07:40 3 10	07:45 4 15	07:50 5 20	07:55 6 25	7	8	9
Volume Purged (~~gal~~) mL	0	100	200	300	400	500			
Rate (mL/min)	100	100	100	100	100	100			
Depth to Water (ft.)	14.50	14.50	14.50	14.50	14.50	14.5			
Color	clear	clear	clear	clear	clear	clear			
Temp °	7.08	7.63	7.41	6.71	6.34	6.10			
pH	5.99	5.96	5.95	5.89	5.87	5.87			
Conductivity (mS/cm)	0.537	0.534	0.532	0.529	0.525	0.523			
ORP (mV)	97.9	92.6	88.5	92.1	94.4	95.8			
DO (mg/l)	3.56	1.89	1.38	1.21	1.25	1.21			
Turbidity (NTU)	2	2	3	2	2	2			
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: MSMW24C(W)	Sample Time: 07:55	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	RAB	

Observations

- Installed Bladder Pump w/ Dedicated Teflon Bladder on 36' 3/4" (TIC) on 2/16/04. (Based on preliminary geophysical for data)
- Initial Purge water clear, No sediment No odor, No color, cl
- End Purge Water clear, No color, No odor, No sediment.

Draft for EPA Review

Off-Site Monitoring Wells

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Clear 31°

Well ID: ESMW5AGW (MW-5A)
Date: 02-11-04
FID (ppm) 0 ppm
Time In: 07:05 **Time Out:** 12:00

Well Information

2/10/04 Depth to Water: (initial) (TIC)	(feet) 7.85	Time: 1534	
Depth to Water: (with equipment) (TIC)	(feet) 7.93	Time: 0718	
Depth to Water: (Final) (TIC)	(feet) 7.93	Time: 10:10	
1/19/04 Total Depth: (TIC)	55.12' (feet)	Time:	
Total Depth: (TIC)	55.12 (feet)	Time:	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: NA	
Length of Water Column:	(feet) 47.19		
Volume of Water in Well:	(gal) 7.7		

Equipment

Probe Type: Solinist — Water Level ✓ — Interface

Purging Method: Bladder Pump ☑ — Other ☐

Tubing Type: Polyethylene ☐ — Teflon lined ☑

Well Diameter: 1" ☐ — 2" ☑ — Other: ~~4" to 3/4~~ ☑

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 08:07 — Pump End time: 1010

Duration of Pumping: (min) 123

Average Pumping Rate: (ml/min) 30 — Water-Quality Meter Type: YSI ~~556~~ MPS ✓ w/ Flow thru Cell HACH 2100P TURBIDIMETER

Total Volume Removed: (gal) ~~0.25~~ 0.98 (with samples) — Did well go dry: Yes ☐ No ☑

Time Elapsed	1	2	3	4	5	6	7	8	9
	0832	0845	0900	0915	0930	~~0745~~	~~10:00~~	②	
Volume Purged (~~gal~~) mL	750	1200	1650	2100	2550	~~3000~~	~~3450~~	②	
Rate (mL/min)	30	30	30	30	30				
Depth to Water (ft.)	7.94	7.94	7.94	7.94	7.94				
Color	Clear	Clear	Clear	Clear	Clear				
Temp ©	5.03	3.49	3.74	3.26	3.15				
pH	6.25	5.92	6.12	6.09	6.11				
Conductivity (mS/cm)	0.362	0.364	0.364	0.361	0.360				
ORP (mV)	277.0	278.4	275.3	273.8	271.0				
DO (mg/l)	6.83	6.65	6.32	6.09	5.96				
Turbidity (NTU)	23	~~14~~ ② 14	11	10	9				
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: ES MW5AGW	Sample Time: 10:10	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	RDH	

Observations

- INSTALLED Purge 50' (TIC) on 2/10/04
- initial water clear no sediment No odor.
- End purge, clear water no sediment no odor.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Clear 31°

Well ID: ESMW5B(W) (MW-5B)
Date: 02-11-04
FID (ppm) Ø ppm
Time In: 07:05 **Time Out:** 12:00

Well Information

2/10/04 Depth to Water: (initial) (TIC)	(feet) 6.20	Time: 1553	
Depth to Water: (with equipment) (TIC)	(feet) 6.27	Time: 0735	
Depth to Water: (Final) (TIC)	(feet) 6.28	Time: 1055	
2/3/04 Total Depth: (TIC) 13.18	(feet)	Time:	
Total Depth: (TIC) 13.18	(feet)	Time:	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 6.91'		
Volume of Water in Well:	(gal) 1.1		

Equipment

Probe Type: Solinist — Water Level — Interface ✓

Purging Method: Bladder Pump ☑ Other ☐

Tubing Type: Polyethylene ☐ Teflon lined ☑

Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 08:10 — Pump End time: 11:40 ~~(Sample)~~

Duration of Pumping: (min) 210

Average Pumping Rate: (ml/min) 30 — Water-Quality Meter Type: YSI 556 MPS w/ Flow thru Cell HACH 2100P TURBIDIMETER

Total Volume Removed: (gal) ~~0.42~~ 1.63 (with samples) — Did well go dry: Yes ☐ No ☑

Time Elapsed	1	2	3	4	5	6	7	8	9	MS
	0840	0855	0910	0925	0940	0955	10:10	10:25	10:40	
Volume Purged (~~gal~~) mL	900	1350	1800	2250	2700	3150	3600	4050	4500	
Rate (mL/min)	30	30	30	30	30	30	30	30	30	30
Depth to Water (ft.)	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.2
Color	Clear	clear	clear	clear	clear	Clear	clear	clear	clear	Clear
Temp ©	5.22	4.93	4.57	4.46	4.69	4.74	4.70	4.58	4.59	4.8
pH	5.89	5.93	5.92	5.91	5.95	5.95	5.92	5.95	5.92	5.92
Conductivity (mS/cm)	0.209	0.212	0.211	0.208	0.212	0.208	0.209	0.210	0.212	0.21
ORP (mV)	324.2	323.2	322.2	320.7	316.1	311.8	308.4	306.0	302.0	298.
DO (mg/l)	7.08	6.85	6.86	6.74	6.59	6.64	6.55	6.52	6.52	6.6
Turbidity (NTU)	70	57	48	38	29	26	23	18	18	[illegible]
Notes:										

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☑
Oversight: N/A		
Sample ID: ESMW5B(W)	Sample Time: 11:40	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RM		

Observations

- Pump installed @ ~10' (TIC) on 2/10/04
- initial purge water slightly cloudy cleared up quickly
- End purge & sampling water clear No silt, No odor.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Cloudy / Sunny

Well ID: MW-8A
Date: 02-18-04
FID (ppm) 0.0
Time In: 10:30 Time Out: 12:30

Well Information

2/17/04 Depth to Water: (initial) (TIC)	(feet) 3.06	Time: 1500	
Depth to Water: (with equipment) (TIC)	(feet) 3.16	Time: 10:45	
Depth to Water: (Final) (TIC)	(feet) 3.17	Time: 1155	
1/30/04 Total Depth: (TIC)	(feet) 27.50	Time: 0940	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 24.34		
Volume of Water in Well:	(gal) 4 GAL		

Equipment

Probe Type:	Water Level	Interface ✓
Purging Method:	Bladder Pump ✓	Other ☐
Tubing Type:	Polyethylene ☐	Teflon lined ✓
Well Diameter:	1" ☐ 2" ✓	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time:	11:00	Pump End time:	11:55
Duration of Pumping:	(min) 55		
Average Pumping Rate:	(ml/min) 100	Water-Quality Meter Type:	YSI 556 MPS w/ Flow cell HACH 2100P (Turb
Total Volume Removed:	(gal) 1.42	Did well go dry:	Yes ☐ No ☒

MINS. Time Elapsed	0 1	5 2	10 3	15 4	20 5	25 6	30 7	35 8	40 9
	11:15	11:20	11:25	11:30	11:35	11:40	11:45	11:50	11:55
Volume Purged (~~gal~~) mL	Ø	100	200	300	400	500	600	700	800
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17
Color	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	clear	clear
Temp ©	6.81	5.87	5.66	5.78	6.01	5.78	5.46	5.25	4.99
pH	5.78	5.69	5.63	5.67	5.67	5.95	5.70	5.72	5.67
Conductivity (mS/cm)	Ø.175	Ø.177	Ø.179	Ø.178	Ø.178	Ø.180	Ø.180	Ø.180	Ø.181
ORP (mV)	58.6	49.7	45.1	42.8	37.0	25.2	26.2	26.3	27.7
DO (mg/l)	4.65	1.97	1.68	1.59	1.39	1.23	1.18	1.25	1.28
Turbidity (NTU)	62	48	45	40	31	22	20	22	20
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ✓
Oversight: N/A		
Sample ID: MSMW8A(W)	Sample Time: 11:58	
MS/MSD:	Yes ☐	No ✓
Duplicate:	Yes ☐	No ✓
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

- INSTALLED BLADDER PUMP @ ~22.5' (TIC) on 2/17/04
- Initial Purge water OPAQUE, No Odor Some Sediment.
- End Purge Water No, Color, Odor, Sediment.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: (DSB) **Well ID:** MW2-BB
Oversight Personnel: N/A **Date:** 2/18/04
Client / Job Number: GE/100.02.074 **FID (ppm)** 0.0
Weather: Overcast, 30°F **Time In:** 1030 **Time Out:** 1245

Well Information

2/17/04	Depth to Water: (initial) (TIC)	(feet) 3.29	Time: 1505
	Depth to Water: (with equipment) (TIC)	(feet) 3.35	Time: 10:43
	Depth to Water: (Final) (TIC)	(feet) 3.40	Time: 1140
1/30/04	Total Depth: (TIC)	(feet) 11.94	Time: 0900
	Total Depth: (TIC)	(feet) N/A	Time: N/A
	Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A
	Length of Water Column:	(feet) 8.59	
	Volume of Water in Well:	(gal) 1.4	

Equipment

Probe Type:	(Water Level) Interface
Purging Method:	Bladder Pump ☒ Other ☐
Tubing Type:	Polyethylene ☐ Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 1100 Pump End time: 1140 (Sample)
Duration of Pumping: 40 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ flow through cell / HACH 2100P Turbidity meter
Total Volume Removed: 1.1 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1100 1 0	1105 2 5	1110 3 10	1115 4 15	1120 5 20	1125 6 25	1130 7 30	1135 8 35	1140 9 40
Volume Purged (gal)	0	500 ml	1000 ml	1500 ml	2000 ml	2500 ml	3000 ml	3500 ml	4000 ml
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
Color	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless	Colorless
Temp ©	3.46	4.18	4.17	4.16	4.25	4.33	4.36	4.33	4.30
pH	5.85	5.72	5.71	5.68	5.67	5.67	5.67	5.66	5.66
Conductivity (mS/cm)	0.169	0.168	0.169	0.170	0.169	0.169	0.169	0.168	0.168
ORP (mV)	251.2	245.9	241.3	237.7	234.4	230.8	227.2	223.9	221.6
DO (mg/l)	5.79	1.67	1.29	1.11	1.08	1.02	0.95	0.95	0.94
Turbidity (NTU)	10	4	3	2	1	1	1	1	1
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: MW2BGW	Sample Time: 1140	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

- Installed Bladder Pump @ ~8' (TIC) on 2/17/04
- Initial Purge H2O Clear, Colorless, odorless
- Samples Clear, Colorless, odorless

11.94
- 3.29
8.65

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RAM
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Sunny, 25°F AM

Well ID: MW-10A
Date: 2/10/04
FID (ppm) N/A - INOPERABLE
Time In: 0730 Time Out: 1315

Well Information

1/9/04

Depth to Water: (Initial) (TIC)	(feet) 7.20	Time:	
Depth to Water: (with equipment) (TIC)	(feet) 7.24	Time: 0732	
Depth to Water: (Final) (TIC)	(feet) 7.81	Time: 1050	
Total Depth: (TIC)	(feet) 33.88	Time:	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 26.07		
Volume of Water in Well:	(gal) 4.2		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: ~~0830~~ 0850 Pump End time: 1050 (SAMPLE)
Duration of Pumping: 120 (min)
Average Pumping Rate: 32 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ FLOW THROUGH CELL
Total Volume Removed: (gal) / Did well go dry: Yes ☐ No ☒

Time Elapsed	1 INITIAL	2 0915 15	3 0920 30	4 0935 45	5 0950 60	6 1005 75	7 1020 90	8 1035 105	9 1050 120
Volume Purged (gal)	INITIAL	480 ml	960 ml	1440 ml	1920	2400	2880	3360	3840
Rate (mL/min)	32 ml/min	32 ml/min	32 ml/min	32 ml/min	32 ml/min	32 ml/min	32 ml/min	32 ml/min	32 ml/min
Depth to Water (ft.)	7.82	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81
Color	colorless	Colorless	Colorless	Colorless	Colorless	Colorless	colorless	Colorless	Colorless
Temp ©	5.12	4.24	3.87	3.73	3.84	4.06	4.20	4.47	5.58
pH	5.80	5.71	5.66	5.64	5.64	5.72	5.67	5.72	5.75
Conductivity (mS/cm)	0.243	0.241	0.240	0.239	0.239	0.238	0.238	0.238	0.237
ORP (mV)	-221.5	-293.0	-297	-296.2	-294.6	-289.8	-293.1	-295.2	-292.2
DO (mg/l)	6.42	4.23	2.13	1.71	1.48	1.36	1.25	1.28	1.22
Turbidity (NTU)	19	18	13	10	6	6	4	3	3
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: MSMW10A6W	Sample Time: 1050	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RAM		

Observations

- Initial purge H2O clear, colorless, odorless
- Final purge H2O clear, colorless, odorless
- Pump installed on 2/9/04 ~5' from Bottom

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RDS
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Sunny, 25°F AM

Well ID: MW-10B
Date: 2/11/04
FID (ppm) 0.0
Time In: 0705 **Time Out:** 1200

Well Information

2/9/04 Depth to Water: (initial) (TIC)	(feet) 5.78	Time:	
Depth to Water: (with equipment) (TIC)	(feet) 5.82	Time: 0708	
Depth to Water: (Final) (TIC)	(feet) 5.89	Time: 0900	
1/20/04 Total Depth: (TIC)	(feet) 15.75'	Time:	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 9.93'		
Volume of Water in Well:	(gal) 1.6		

Equipment

Probe Type:	Water Level	Interface	
Purging Method:	Bladder Pump ☒	Other ☐	
Tubing Type:	Polyethylene ☐	Teflon lined ☒	
Well Diameter:	1" ☐	2" ☒	Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0730 Pump End time: 0900 (SAMPLE)
Duration of Pumping: 90 (min)
Average Pumping Rate: 32 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ flow THROUGH CELL / HACH 2100P TURBIDIMETER
Total Volume Removed: 0.8 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0730 1 INITIAL	0745 2 15	0800 3 30	0815 4 45	0830 5 60	0845 6 75	0900 7 90	8	9
Volume Purged (gal)	0	480 ml	960 ml	1440 ml	1920 ml	2400 ml	2880 ml		
Rate (mL/min)	32 ml/min	32 ml/min	32 ml/min	32 ml/min	32 ml/min	32 ml/min	32 ml/min		
Depth to Water (ft.)	5.92	5.89	5.89	5.89	5.89	5.89	5.89		
Color	YELLOW BROWN	COLORLESS	COLORLESS	COLORLESS	COLORLESS	COLORLESS	COLORLESS		
Temp ©	2.97	2.56	1.98	1.95	2.26	2.25	2.29		
pH	5.54	5.52	5.54	5.52	5.59	5.62	5.61		
Conductivity (mS/cm)	0.278	0.266	0.265	0.264	0.264	0.264	0.264		
ORP (mV)	-247.7	-357.8	-355.0	-377.1	-373.1	-372.8	-373.2		
DO (mg/l)	10.67	2.40	1.64	0.98	0.88	0.78	0.72		
Turbidity (NTU)	65	9	4	2	1	1	1		
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight:	N/A	
Sample ID: MSMW10B(GW)	Sample Time: 0900	
MS/MSD:	Yes ☒	No ☐
Duplicate:	Yes ☒	No ☐
Duplicate ID MWDUP1(GW)	Dup. Time: — (SAME AS SAMPLE) BLIND TO LAB	
Chain of Custody Signed By: RDS		

Observations

- PUMP INSTALLED @ 11' (TIC) ON 2/9/04
- INITIAL PURGE H2O YELLOW BROWN, NOT TURBID, ODORLESS
- FINAL PURGE H2O CLEAR, COLORLESS, ODORLESS
- TUBING SAVED FOR FUTURE USE
- RDS COLLECTS RINSE BLANK RB021104 @ 1600 USING DECONTAMINATED BLADDER PUMP, CAS FREE DI H2O & GLASSWARE

TURBIDITY 10% OR 1 NTU ≤ 10 / DO 10% OR .1 mg/L ≤ 1.0 mg/L / COND 3% / ORP 10 mV / pH .1

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: DK
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Sunny, 25°F AM

Well ID: MW-10C
Date: 2/10/04
FID (ppm) N/A - INOPERABLE
Time In: 0730 Time Out: 1315

Well Information

2/9/04 Depth to Water: (initial) (TIC)	(feet) 7.73	Time:	
Depth to Water: (with equipment) (TIC)	(feet) 7.75	Time: 0730	
Depth to Water: (Final) (TIC)	(feet) 7.83	Time: 1230	
1/20/04 Total Depth: (TIC)	(feet) 52.03	Time:	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 44.28		
Volume of Water in Well:	(gal)		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☐ Other: Rock-well

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0830 Pump End time: 1230 (Sample)
Duration of Pumping: 240 (min)
Average Pumping Rate: (ml/min) 42 Water-Quality Meter Type: YSI 556 MPS w/ flow through cell
Total Volume Removed: 2.6 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1 0	2 0815 15	3 0900 30	4 0915 45	5 0930 60	6 0945 75	7 1000 90	8 1015 105	9 1030 120
Volume Purged (gal)	Initial	630 ml	1260	1890	2520	3150	3780	4410	5040
Rate (mL/min)	42 ml/min	42 ml/min	42 ml/min	42 ml/min	42 ml/min	42 ml/min	42 ml/min	42 ml/min	42 ml/min
Depth to Water (ft.)	7.89	8.00	8.00	8.00	7.96	7.93	7.90	7.86	7.85
Color	Colorless	~~Opaque~~ Colorless	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque	Opaque
Temp ©C	4.41	5.12	5.08	4.98	4.93	4.92	4.84	4.78	4.78
pH	12.25	12.16	12.20	11.57	12.19	12.20	12.39	11.97	12.18
Conductivity (mS/cm)	1.111	1.033	1.085	1.097	1.091	1.083	1.081	1.077	1.075
ORP (mV)	40.5	7.6	-29.3	-54.0	-64.9	-68.0	-71.6	-63.4	-57.7
DO (mg/l)	8.44	0.77	0.68	0.39	0.62	0.61	0.66	0.72	0.73
Turbidity (NTU)	29	701	344	241	479	171	107	83	76
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: MSMW10CGW	Sample Time: 1230	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:		

Observations

- Initial Appearance Cloudy, Colorless, odorless
- Samples opaque, moderately turbid, odorless.
- Samples after purging for 4 hours (option c w/ EPA low flow guidelines). Turbidity would not stabilize. "Rock Hard" observed as around in sample basin @ discharge point & bottom of water column flow through cell.
- Pump installed on 2/9/04 ~7' from bottom

GE – Fletcher's Paint Milford, NH

Site | Eve

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: RDK
Oversight Personnel: N/A
Client / Job Number: GR/100.02.074
Weather: Sunny, 25°F AM

Well ID: MW-10C
Date: 2/10/14
FID (ppm) N/A – [illegible]
Time In: 0730 Time Out: 1315

Well Information

2/9/14 Depth to Water: (Initial) (TIC)	(feet) 7.25	Time:	
Depth to Water: (with equipment) (TIC)	(feet) 7.25	Time: 0730	
Depth to Water: (Final) (TIC)	(feet)	Time:	
1/20/14 Total Depth: (TIC)	(feet) 52.03	Time:	
Total Depth: (TIC)	(feet)	Time:	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 44.78		
Volume of Water in Well:	(gal)		

Equipment

Probe Type: Water Level (circled) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☐ Other: Rockaway

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet

Purging Information

Pump Start time: 0830 Pump End time: 1230 (Sample)
Duration of Pumping: 240 (min)
Average Pumping Rate: 42 (ml/min) Water-Quality Meter Type: YSI 556 MPS in/flow through cell
Total Volume Removed: 2.6 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1045 1 135	1100 2 150	1115 3 165	1130 4 180	1200 5 210	1230 6 240	1245 7	1255 8	9
Volume Purged (gal)	5670 ml	6300	6780	7410	8670	9930			
Rate (mL/min)	42 ml/min	42 ml/min	42 ml/min	42 ml/min	42 ml/min	42 ml/min			
Depth to Water (ft.)	7.83	7.83	7.83	7.83	7.83	7.83			
Color	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE			
Temp C	5.00	5.64	6.44	6.98	6.87	7.05			
pH	12.18	12.19	12.16	12.14	12.13	12.15			
Conductivity (mS/cm)	1.051	1.066	1.054	1.051	1.053	1.053			
ORP (mV)	-52.5	-50.8	-49.2	-59.0	-77.3	-78.3			
DO (mg/l)	0.75	0.79	0.82	0.52	0.37	0.36			
Turbidity (NTU)	69	58	145	278	223	83	98	102	
Notes:							During Sampling	During Sampling	

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: MS-MW-10C-(W)	Sample Time:	
MS/MSD: Yes ☐	No ☒	
Duplicate: Yes ☐	No ☒	
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RDK		

Observations

– RDK collects Rinse Blank RB021004 @ 1415 using dedicated Bladder Pump. LAB provided Cheesecloth: DI H2O

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Oversight Personnel: L. Sprague
Client / Job Number: GE/100.02.074
Weather: Partly Cloudy/Sunny 25°

Well ID: MW-11A
Date: 02-18-04
FID (ppm) 0.0
Time In: 07:00 Time Out: 10:20

Well Information

2/12/04 Depth to Water: (Initial) (TIC)	(feet) 28.31	Time: 1411	
Depth to Water: (with equipment) (TIC)	(feet) 28.31	Time: 07:40	
Depth to Water: (Final) (TIC)	(feet) 28.30	Time: 09:45	
2/2/04 Total Depth: (TIC)	(feet) 76.95	Time: 1435	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 48.64		
Volume of Water in Well:	(gal) 7.93		

Equipment

Probe Type: Solinst Water Level ✓ Interface ✓
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:50 Pump End time: 09:00 (Sampled)
Duration of Pumping: (min) 70
Average Pumping Rate: (ml/min) ~~1000~~ 100 Water-Quality Meter Type: YSI 556 MPS w/ Flow cell HACH 2100P (Turb.)
Total Volume Removed: (gal) 3.6 Did well go dry: Yes ☐ No ☒

Time Elapsed (min.)	0 1	5 2	10 3	15 4	20 5	25 6	30 7	35 8	40 9
	8:00	8:05	8:10	8:15	8:20	8:25	8:30	8:35	8:40
Volume Purged (gal) ml	Ø	100	200	300	400	500	600	700	800
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	28.31	28.31	28.31	28.31	28.31	28.31	28.31	28.31	28.31
Color	clear	clear	clear	clear	clear	clear	clear	clear	clear
Temp ©	8.02	8.50	8.70	9.05	9.18	9.00	8.60	8.11	7.87
pH	6.08	6.07	6.09	6.10	6.10	6.10	6.10	6.09	6.09
Conductivity (mS/cm)	Ø.199	Ø.200	Ø.201	Ø.201	Ø.201	Ø.201	Ø.202	Ø.202	Ø.201
ORP (mV)	41.7	22.3	9.0	-6.1	-12.5	-19.8	-21.0	-22.4	-22.5
DO (mg/l)	3.90	3.08	2.45	1.90	1.36	1.16	1.18	1.27	1.08
Turbidity (NTU)	7	5	3	2	2	2	2	2	1
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents	1,4 Dioxin	STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight:	CARL S. (USEPA)	
Sample ID: MSMW11AGW	Sample Time: 09:00	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	DAS	

Observations

- Installed Bladder pump @ ~72' (TIC) on 2/12/04
- Initial Purge water clear, no color, odor, sediment.
- End Purge Water no, color, odor, sediment.

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blasland
Well ID: MW-11A
Oversight Personnel: C Sprague EPA
Date: 02-18-04
Client / Job Number: GE/100.02.074
FID (ppm) 0.0
Weather: Mostly Partly Cloudy/Sunny 25°
Time In: 0700 Time Out: 1012

Well Information

Depth to Water: (initial) (TIC)	(feet)	28.31	Time:	14:11
Depth to Water: (with equipment) (TIC)	(feet)	28.31	Time:	07:40
Depth to Water: (Final) (TIC)	(feet)	28.30	Time:	09:45
Total Depth: (TIC)	(feet)	76.95	Time:	14:35
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	48.64		
Volume of Water in Well:	(gal)	7.93		

Equipment

Probe Type: Solinist Water Level ☑ Interface ☑
Purging Method: Bladder Pump ☑ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☑
Well Diameter: 1" ☐ 2" ☑ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:50 Pump End time: 09:00 (Sampled)
Duration of Pumping: (min) 70
Average Pumping Rate: (ml/min) ~~7,000~~ 100 Water-Quality Meter Type: YSI 556 MPS w/ Flow cell HACH 2100P (Turbidity)
Total Volume Removed: (gal) 3.6 Did well go dry: Yes ☐ No ☑

Time Elapsed (mins.)	45 1 08:45	50 2 08:50	55 3 08:55	60 4 09:00	5	6	7	8	9
Volume Purged (~~gal~~) ml	900	1,000	1,100	1,200					
Rate (mL/min)	100	100	100	100					
Depth to Water (ft.)	28.31	28.31	28.31	28.31					
Color	clear	clear	clear	clear					
Temp ©	7.71	8.22	8.85	8.66					
pH	6.08	6.10	6.08	6.09					
Conductivity (mS/cm)	0.201	0.202	0.201	0.201					
ORP (mV)	-23.5	-25.3	-27.2	-28.1					
DO (mg/l)	1.13	1.20	1.10	0.91					
Turbidity (NTU)	1	1	1	1					
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents	1,4 Dioxin	STL - Buffalo
Split Sample	Yes ☑	No ☐
Oversight:	Chris S. (USEPA)	
Sample ID:	MSMW11AGW	Sample Time: 09:00
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID	N/A	Dup. Time: N/A
Chain of Custody Signed By:	RD	

Observations

- End Purge water clear, No color, sediment, odor.

09:29 C. Sprague onsite EPA

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: (DJK)
Oversight Personnel: CHERYL S. (USEPA)
Client / Job Number: GE/100.02.074
Weather: OVERCAST, 25°F

Well ID: MW-11B
Date: 2/18/04
FID (ppm) 0.0
Time In: 0700 **Time Out:** 1020

Well Information

2/17/04 Depth to Water: (initial) (TIC)	(feet) 28.90	Time: 1413	
Depth to Water: (with equipment) (TIC)	(feet) 28.91	Time: 0710	
Depth to Water: (Final) (TIC)	(feet) 28.92	Time: 0915	
2/2/04 Total Depth: (TIC)	(feet) 34.52	Time: 1435	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 5.61		
Volume of Water in Well:	(gal) 0.9		

Equipment

Probe Type:	(Water Level) Interface
Purging Method:	Bladder Pump ☒ Other ☐
Tubing Type:	Polyethylene ☐ Teflon lined ☒
Well Diameter:	1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0800 Pump End time: 0915 (SAMPLE)
Duration of Pumping: 75 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ FLOW THROUGH CELL / HACH 2100P TURBIDITY METER
Total Volume Removed: 2 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0800 WITH 1 0	0805 2 5	0810 3 10	0815 4 15	0820 5 20	0825 6 25	0830 7 30	0835 8 35	0840 9 40
Volume Purged (gal)	0	500ml	1000ml	1500ml	2000ml	2500	3000	3500	4000
Rate (mL/min)	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	28.92	28.92	28.92	28.92	28.92	28.92	28.92	28.92	28.92
Color	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE	CLEAR	CLEAR	CLEAR
Temp °	10.30	10.46	9.36	9.38	9.43	9.27	9.43	9.45	9.25
pH	5.82	5.92	5.82	5.82	5.83	5.83	5.84	5.84	5.84
Conductivity (mS/cm)	0.222	0.192	0.186	0.187	0.188	0.188	0.188	0.192	0.194
ORP (mV)	241.8	242.7	246.5	249.9	252.1	254.4	256.0	257.9	259.0
DO (mg/l)	5.82	5.91	6.35	6.57	6.70	6.96	6.99	7.12	7.00
Turbidity (NTU)	129	117	75	52	33	22	16	15	13
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	1,4 DIOXANE	Yes ☒ No ☐
Oversight:	CHERYL S. (USEPA)	
Sample ID: MSNW11BGW	Sample Time: 0915	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	(DJK)	

Observations

- INSTALLED BLADDER PUMP @ ~~29.5~~ 32.5' (TIC) ON 2/17/04 (DJK)
- INITIAL PURGE H2O OPAQUE, COLORLESS, ODORLESS
- SAMPLE CLEAR, COLORLESS, ODORLESS

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: (RJ)
Oversight Personnel: Cheryl S. (USEPA)
Client / Job Number: GE/100.02.074
Weather: Overcast, 25°F

Well ID: MW-11B
Date: 2/18/04
FID (ppm) 0.0
Time In: 0700 Time Out: 1020

Well Information

2/17/04 Depth to Water: (Initial) (TIC)	(feet)	28.90	Time:	1413
Depth to Water: (with equipment) (TIC)	(feet)	28.91	Time:	0740
Depth to Water: (Final) (TIC)	(feet)	28.92	Time:	0915
2/2/04 Total Depth: (TIC)	(feet)	34.52	Time:	1435
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	5.61		
Volume of Water in Well:	(gal)	0.9		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0800 Pump End time: 0915 (Sample)
Duration of Pumping: 75 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Low Flow Thermocell / HACH 2100P Turbidimeter
Total Volume Removed: 2 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	0845 1 45	0850 2 50	0855 3 55	0900 4 60	0905 5 65	0910 6 70	0915 7 75	8	9
Volume Purged (gal)	4500 ml	5000 ml	5500 ml	6000 ml	6500 ml	7000 ml	7500 ml		
Rate (mL/min)	100	100	100	100	100	100	100		
Depth to Water (ft.)	28.92	28.92	28.92	28.92	28.92	28.92	28.92		
Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
Temp °	9.04	9.48	9.22	9.44	9.16	9.21	9.18		
pH	5.84	5.84	5.83	5.84	5.83	5.83	5.83		
Conductivity (mS/cm)	0.195	0.196	0.197	0.196	0.194	0.197	0.197		
ORP (mV)	260.3	260.6	261.8	262.2	263.0	263.5	264.5		
DO (mg/l)	7.09	6.85	7.02	7.03	7.09	6.92	6.93		
Turbidity (NTU)	9	7	5	5	6	5	5		
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample 1,4 Dioxane	Yes ☒	No ☐
Oversight: Cheryl S. (USEPA)		
Sample ID: MSMW11B(W)	Sample Time: 0915	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: (RJ)		

Observations

GE – Fletcher's Paint Milford, NH

Site *Event*

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blodgett
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Clear 76°

Well ID: MW25B
Date: 02-10-04
FID (ppm) N/A - INCORRADE
Time In: 07:40 Time Out: 13:40

Well Information

Depth to Water: (Initial) (TIC)	(feet) 8.95	Time: 8:50	
Depth to Water: (with equipment) (TIC)	(feet) 8.95	Time: 09:00	
Depth to Water: (Final) (TIC)	(feet) 8.95	Time: 1138	
1/9/04 Total Depth: (TIC) 13.86	(feet) 13.86	Time:	
Total Depth: (TIC) N/A	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL) N/A	(feet) N/A	Time: N/A	
Length of Water Column: 4.91	(feet)		
Volume of Water in Well: 1.1	(gal)		

Equipment

Probe Type: Solinist Water Level ✓ Interface

Purging Method: Bladder Pump ☒ Other ☐

Tubing Type: Polyethylene ☐ Teflon lined ☒

Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.468
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 07:10 Pump End time: 1225 (Sample)

Duration of Pumping: 195 (min)

Average Pumping Rate: 30 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ Flow Through Cell

Total Volume Removed: 1.2 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1	2	3	4	5	6	7	8	9
	0928	0938	0953	1008	10:23	10:38	10:53	11:08	11:23
Volume Purged (gal) ml	Initial 450	900	1350	1800	2250	2700	3150	3600	4050
Rate (mL/min)	30	30	30	30	30	30	30	30	30
Depth to Water (ft.)	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95
Color	Clear	Clear	Clear	Clear	Clear	Clear	clear	clear	clear
Temp (C)	6.26	6.52	6.40	5.23	5.17	5.22	6.44	6.58	6.49
pH	5.97	6.00	5.99	5.99	5.96	5.94	5.93	5.94	5.92
Conductivity (mS/cm)	1.304	0.639	0.580	0.513	0.503	0.460	0.411	0.402	0.382
ORP (mV)	332.9	315.6	313.5	310.0	307.8	301.9	291.0	281.6	279.1
DO (mg/l)	8.02	5.51	5.32	5.68	5.30	4.96	4.52	4.37	4.42
Turbidity (NTU)	35	54	29	24	22	17	12	11	12
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: MSMW25BGW	Sample Time: 12:25	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By (DN)		

Observations

- Initial Purge H2O Clear, colorless, slightly turbid, odorless
- Final Purge H2O Clear, colorless, odorless
- Pump installed on 2/10/04 ~3' from bottom of well

GE – Fletcher's Paint Milford, NH
Site

Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R. Blackwell
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: MOSTLY CLEAR, 36°F

Well ID: MW25B
Date: 02-10-04
FID (ppm) N/A - INOPERABLE
Time In: 0940 Time Out: 1340

Well Information

Depth to Water: (initial) (TIC)	(feet)	8.95	Time:	8:50
Depth to Water: (with equipment) (TIC)	(feet)	8.95	Time:	0900
Depth to Water: (Final) (TIC)	(feet)	8.95	Time:	11:38
Total Depth: (TIC)	(feet)	15.86	Time:	
Total Depth: (TIC)	(feet)	N/A	Time:	N/A
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet)	N/A	Time:	N/A
Length of Water Column:	(feet)	6.91		
Volume of Water in Well:	(gal)	1.1		

Equipment

Probe Type: (Water Level) Interface
Purging Method: Bladder Pump ☒ Other ☐
Tubing Type: Polyethylene ☐ Teflon lined ☒
Well Diameter: 1" ☐ 2" ☒ Other:

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0900 Pump End time: 1225 (SAMPLE)
Duration of Pumping: 195 (min)
Average Pumping Rate: 30 (ml/min) Water-Quality Meter Type: YSI 556 w/ FLOW THROUGH CELL
Total Volume Removed: 1.2 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1	2	3	4	5	6	7	8	9
	11:38	~~11:53~~	~~12:08~~						
Volume Purged (~~gal~~) mL	4500								
Rate (mL/min)	30								
Depth to Water (ft.)	8.95								
Color	Clear								
Temp C	6.16	~~to~~							
pH	5.92								
Conductivity (mS/cm)	0.377								
ORP (mV)	277.3								
DO (mg/l)	4.53								
Turbidity (NTU)	11								
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID:	Sample Time: 12:25	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	RAB	

Observations

GE – Fletcher's Paint Milford, NH

Site | Event

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: R Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: Mostly Clear 36°

Well ID: MW-25C
Date: 02/10/09
FID (ppm) N/A
Time In: 07:46 Time Out: 13:40

Well Information

Depth to Water: (initial) (TIC)	(feet) 8.99	Time: 08:15	
Depth to Water: (with equipment) (TIC)	(feet) 8.99	Time: 08:36	
Depth to Water: (Final) (TIC)	(feet) 9.00	Time: 1217	
Total Depth: (TIC)	(feet) 39.47	Time:	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 30.48		
Volume of Water in Well:	(gal)		

Equipment

Probe Type: Solinst Water Level ✓ Interface ✓

Purging Method: Bladder Pump ☒ Other ☐

Tubing Type: Polyethylene ☐ Teflon lined ☒

Well Diameter: 1" ☐ 2" ☐ Other: 4" – 3" Rockwell

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 08:47 Pump End time: 1330 (Sample)

Duration of Pumping: (min)

Average Pumping Rate: 30 (ml/min) Water-Quality Meter Type: YSI 556 MPS w/ flow through cell

Total Volume Removed: 1.7 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	09:021 initial	2 09:17	3 09:32	4 09:47	5 10:02	6 1017	7 10:32	8 10:47	9 11:02
Volume Purged ~~(gal)~~ mL	450	900	1350	1800	2250	2700	3150	3600	4050
Rate (mL/min)	30	30	30	30	30	30	30	30	30
Depth to Water (ft.)	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Color	LT Brown	LT Brown	LT Brown	LT Brown	Cloudy	Clear	Clear	Clear	Clear
Temp ©	5.24	6.12	6.06	6.10	6.10	5.73	5.82	6.51	8.40
pH	11.35	11.46	11.46	11.46	11.46	11.45	11.47	11.44	11.39
Conductivity (mS/cm)	0.867	0.867	0.869	0.868	0.867	0.876	0.866	0.858	0.846
ORP (mV)	22.0	-15.2	-26.8	-32.3	-40.2	-42.6	-49.0	-51.1	-50.2
DO (mg/l)	6.05	1.85	1.58	1.46	1.57	1.52	1.68	1.59	1.69
Turbidity (NTU)	494	407	187	110	63	56	30	66	17
Notes:									

Sampling Information

Analyses	#	Laboratory
IGL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: MSMW25C GW	Sample Time: 13:30	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By:	(RB)	

(Stabilization)
Observations

Turb 10% or 1 NTU if less than 10 NTU

DO 10% OR 0.1 mg/L when less than 1.0

COND
TEMP → 3%

ORP 10 millivolts.

Ph 0.1 unit.

413 - 822 - 963

GE – Fletcher's Paint Milford, NH

Site

Eve

GROUNDWATER SAMPLING FIELD LOG

BBL Personnel: K. Blasland
Oversight Personnel: N/A
Client / Job Number: GE/100.02.074
Weather: MOSTY CLEAR 36°F

Well ID: MW-25C
Date: 02-10-04
FID (ppm) N/A - INOPERABLE
Time In: 0740 Time Out: 1340

Well Information

Depth to Water: (initial) (TIC)	(feet) 8.99	Time: 0815	
Depth to Water: (with equipment) (TIC)	(feet) 8.59	Time: 0830	
Depth to Water: (Final) (TIC)	(feet) 9.00	Time: 1217	
Total Depth: (TIC)	(feet) 39.47	Time:	
Total Depth: (TIC)	(feet) N/A	Time: N/A	
Depth to NAPL: (TIC) (DNAPL or LNAPL)	(feet) N/A	Time: N/A	
Length of Water Column:	(feet) 30.48		
Volume of Water in Well:	(gal)		

Equipment

Probe Type: (Water Level) Interface

Purging Method: Bladder Pump ☒ Other ☐

Tubing Type: Polyethylene ☐ Teflon lined ☒

Well Diameter: 1" ☐ 2" ☐ Other: Rockwell

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0840 Pump End time: 1330 (SAMPLE)

Duration of Pumping: (min)

Average Pumping Rate: 30 (ml/min) Water-Quality Meter Type: YSI 556 (MPS) / FLOW THROUGH CELL

Total Volume Removed: 1.7 (gal) Did well go dry: Yes ☐ No ☒

Time Elapsed	1 11:17	2 11:32	3 11:47	4 12:02	5 12:17	6 12:32	7 12:47	8 13:02	9
Volume Purged (~~gal~~) ml	4500	4950	5400	5850	6300				
Rate (mL/min)	30	30	30	30	30				
Depth to Water (ft.)	9.0	9.0	9.0	9.0	9.0				
Color	clear	clear	clear	clear	clear				
Temp ℃	8.97	8.47	6.51	6.40	6.70				
pH	11.42	11.42	11.41	11.40	11.40				
Conductivity (mS/cm)	0.845	0.854	0.844	0.835	0.823				
ORP (mV)	-57.9	-57.7	-56.5	-56.1	-56.0				
DO (mg/l)	1.73	1.88	1.94	1.79	1.51				
Turbidity (NTU)	20	17	17	18	17				
Notes:									

Sampling Information

Analyses	#	Laboratory
ICL Constituents		STL - Buffalo
Split Sample	Yes ☐	No ☒
Oversight: N/A		
Sample ID: MW025C(W)	Sample Time: 13:30	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID N/A	Dup. Time: N/A	
Chain of Custody Signed By: RAK		

Observations

- PUMP DISTURBED ON 2/9/04 ~7' FROM BOTTOM

Appendix K

Draft for EPA Review

Appendix K

Thermal Desorption Treatability Testing Report

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

APPENDIX K
THERMAL TREATABILITY STUDY REPORT

FLETCHER'S PAINT WORKS SITE

SUBMITTED TO:

BLASLAND, BOUCK AND LEE
SYRACUSE, NY

JANUARY 10, 2005
FOCUS PROJECT NO. 010404

PREPARED BY:

Focus Environmental, Inc.
ENGINEERING SOLUTIONS TO ENVIRONMENTAL PROBLEMS

9050 EXECUTIVE PARK DRIVE, SUITE A202
KNOXVILLE, TENNESSEE 37923
(865) 694-7517
http://www.focusenv.com

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY 1
1.1 BACKGROUND 1
1.2 OBJECTIVES 1
1.3 RESULTS 1
2.0 STUDY DESIGN 2
2.1 GENERAL APPROACH 2
2.2 EQUIPMENT DESCRIPTION 3
3.0 STUDY EXECUTION 4
3.1 TEST PITS 4
3.2 COMPOSITING AND BLENDING 5
3.3 ROTARY THERMAL APPARATUS (RTA) TESTING 5
3.3.1 Test Conditions 5
3.3.2 RTA Test Protocol 5
3.3.3 Residuals Management 6
4.0 STUDY RESULTS 6
4.1 SOIL CHARACTERIZATION 6
4.1.1 PCB's 6
4.1.2 Particle Size Distribution 7
4.1.3 Thermal Properties 7
4.1.4 Metals 7
4.2 TTS PROCESS DATA 7
4.3 IMPINGER WATER DATA 8
4.4 OFF-GAS DATA 8
4.5 GENERATION FACTORS 9
5.0 CONCLUSIONS 9
5.1 TREATMENT TEMPERATURE 9
5.2 PCB ANALYSIS 10

Tables

1-1 Calculated Generation Factors

3-1 PCB Results for Test Pit Soil Samples

3-2 Test Pit Soil Analytical Data

3-3 Particle Size Distribution for Test Pit Samples

3-4 Prepared and Treated Soil Sample Analytical Data

3-5 PCB Results for Mill Street Thermal Test Soil Samples

3-6 PCB Results for Elm Street Thermal Test Soil Samples

4-1 Impinger Water Analytical Results

4-2 Analytical Results from Off-gas Bag Samples

4-3 PCB Results for XAD Tube Samples

Figures

2-1 Flow and Monitoring Diagram for RTA Testing

4-1 CO and THC vs Soil Temperature (Run 1) – Elm Street, 700°F Run

4-2 CO and THC vs Soil Temperature (Run 2) – Elm Street, 900°F Run

4-3 CO and THC vs Soil Temperature (Run 3) – Mill Street, 900°F Run

5-1 Comparison of PCB Homolog Proportions – Elm Street 700°F Test

Attachments

A. Thermal Treatability Study Pictures
B. Analytical Data
C. Particle Size Distribution Results
D. Test Run Data Forms
E. Test Operational Data
F. Bag Sample Analytical Data
G. Generation Factor Calculations

1.0 EXECUTIVE SUMMARY

1.1 BACKGROUND

The report documents the results of a thermal treatability study (TTS) conducted on contaminated soils from the Fletcher's Paint Works (FPW) Site in Milford, New Hampshire. The FPW site actually consists of two separate parcels known as the Mill Street and Elm Street areas. Both areas contain relatively high concentrations of PCB contamination. The Elm Street area also contains some municipal and industrial refuse that is commingled with PCB contaminated soil. One of the options being considered for remediating the contaminated soil at the two areas is thermal desorption. The data and information contained in this report can be used to evaluate the application of full-scale thermal desorption technologies at the FPW site.

1.2 OBJECTIVES

The overall objectives of this TTS were to determine if thermal desorption will meet the clean-up levels for the FPW site and collect data to evaluate the potential performance of a thermal desorption technology. Specific objectives included:

- Qualitatively characterize subsurface conditions at both the Mill Street and Elm Street areas
- Characterize the "Field Samples" collected from the test pits
- Determine the optimum soil treatment temperature for meeting the soil cleanup objective
- Determine the mass of specific constituents partitioned to the off-gas per mass of starting soil and per mass of starting carbon.

Specific tasks that will be conducted to accomplish these objectives include:

- Characterize the "prepared" TTS samples.
- Characterize the treated soil from each test condition.
- Excavate exploratory pits to visually determine debris content (type and approximate amount) and collect soil samples for use in the TTS.
- Characterize the off-gas from the TTS soil for each "prepared" soil matrix at a soil treatment temperature of 900 °F and for the Elm Street soil matrix at an additional soil treatment temperature of 700 °F.
- Prepare two composite soil samples for thermal desorption testing; one representing Mill Street soils and the other representing Elm Street soils.

1.3 RESULTS

Significant results obtained from the TTS include:

- Test pits at the Elm Street area contained significant quantities of rock, mostly pieces of quarried granite, particularly in test pits ESTP-01, ESTP-02 and ESTP-03.

- A concrete pad approximately 3 to 4 inches thick and at least 40 feet long by 20 feet wide was discovered approximately 6 to 8 inches below ground surface in the vicinity of test pit MSTP-01 at the Mill Street area. The exact aerial extent of this pad was not defined. See picture A01 in Attachment A.
- Soil excavated from test pits MSTP-02 and MSTP-03 at the Mill Street area contained a significant quantity of discolored soil. There was a visibly darker layer of soil approximately 4 feet below ground surface in test pit MSTP-02. The thickness of the layer was approximately 3 feet. A similar dark layer, not as pronounced, was also found at test pit MSTP-03. See pictures A02 and A03 in Attachment A.
- Concentrations of PCB's in soil samples collected from the Mill Street test pits ranged from 491 mg/kg in test pit MSTP-1 to 6,235 mg/kg in test pit MSTP-3. Concentrations of PCB's in soil samples collected from the Elm Street test pits ranged from 682 mg/kg in test pit ESTP-4 to 1,436 mg/kg in test pit ESTP-3.
- The moisture content of soil samples from the two areas ranged from 6.6 wt% to 14.4 wt% with an average of approximately 11 wt%.
- The heat content of soil samples collected from the Mill Street test pits ranged from 343 to 524 Btu/lb. The heat content of soil samples collected from the Elm Street test pits ranged from 124 to 207 Btu/lb.
- Based on historical data and the results of this test, the best temperature to treat contaminated soil from the FPW site to meet the PCB cleanup standard of 1 mg/kg will be in the range of 700 to 900 °F. The best temperature for processing soil at the site to meet the cleanup standard will be verified during a contaminated soil shakedown period prior to the performance test.
- PCB analytical results for thermally treated soil were essentially equal between Methods 8082A and 1668. Therefore, Method 8082A should be sufficient to analyze thermally treated soils for PCB content.
- PCB's were found in the off-gas from the thermal treatability test apparatus at concentrations ranging from 195 to 1,355 mg/m^3. This data may be useful to a thermal treatment contractor for evaluating off-gas treatment system design and performance.
- "Generation Factors" for this test is defined as the mass of a constituent or component liberated from the test soil matrix per mass of starting soil or mass of starting carbon. "Generation Factors" generally increase with increasing temperature. "Generation Factors" calculated from the test data are summarized in Table 1-1.

2.0 STUDY DESIGN

2.1 GENERAL APPROACH

The TTS was performed at Hazen Research, Inc. (Hazen) located in Golden, Colorado. The TTS consisted of three bench-scale tests using a rotary thermal apparatus (RTA). Each test included processing approximately 1,000 grams of soil. The RTA tests were used to (1) confirm treatment conditions required to meet soil cleanup levels and (2) gather data on partitioning of constituents to the off-gas from the soil during thermal treatment. The results from the TTS can be used to evaluate the application of thermal desorption at the FPW site.

2.2 EQUIPMENT DESCRIPTION

The RTA was operated in a batch mode. The rotating cylinder portion of the system is fabricated of quartz to resist oxidation and/or chemical reactions during high temperature tests. The RTA cylinder was rotated at approximately 5 rpm and was externally heated with an electrically heated shell that encloses the cylinder. The RTA cylinder was purged with a mixture of air and nitrogen at an inlet concentration of approximately 5 vol% O_2. This concentration represents potential O_2 concentration in an indirectly heated thermal desorber.

The purge gas flow rates were established to maintain a slight negative pressure in the RTA cylinder. This ensured that all materials desorbed from the thermally treated soil were directed toward the off-gas treatment system. The temperature of the soil bed and the temperature of the gas in the RTA cylinder were measured with thermocouples.

Figure 2-1 shows a general flow diagram of the RTA system, including the off-gas handling and monitoring system. The off-gas (purge gas and vaporized contaminants) from the RTA cylinder passed through a 0.5 micron heated glass filter maintained at a temperature of approximately 400 °F (i.e., typical for most fabric filters used on thermal desorption processes) to remove particulates in the off-gas carried over from the RTA cylinder. The filtered off-gas passed through four glass impingers in series. The first three impingers contained approximately 100 grams of deionized water each. The fourth impinger was empty.

Grab samples of the impinger off-gas were collected at 4 (or 5) different soil treatment temperatures (200, 400, 600, 700 and 900°F). The grab off-gas samples were volumetrically syringed into a Tedlar bag and analyzed by gas chromatography for hydrogen, oxygen, nitrogen, carbon monoxide, carbon dioxide, methane, ethane, acetylene, propane and numerous other light hydrocarbons.

A slip stream of the off-gas downstream of the impingers was directed to continuous analyzers that monitored the off-gas for THC/CO/O_2/CO_2. This allowed comparison of off-gas composition as a function of soil temperature. The bulk of the off-gas stream was passed through two XAD resin traps (one primary trap and one backup). After passing through the XAD traps the off-gas passed through a dry gas meter. The vacuum created by the dry gas meter maintained a negative pressure in the quartz tube. The dry gas meter also measured the volume of gas exhausted from the system through the XAD traps. Volumetric flow rates were monitored and recorded for all other gas streams on the system during each test.

3.0 STUDY EXECUTION

3.1 TEST PITS

A standard rubber tired backhoe was used to excavate test pits at both the Mill Street and Elm Street areas. Each test pit was advanced to the depth limit of the backhoe (approximately 8 - 10 feet below ground surface) or to refusal. The purpose of the test pits was to identify subsurface features, collect soil samples for test pit characterization and collect soil samples for the TTS. Selected pictures from the test pit excavations are included in Attachment A. More details of the test pit activities and observations are provided in Appendix I (Test Pit Logs and Data). This report focuses on the data and information from the test pitting that is pertinent to application of thermal desorption at the site.

A total of 3 test pits were advanced at the Mill Street area and 5 test pits were advanced at the Elm Street area as follows:

Mill Street Area	Purpose
MSTP-01	Characterization samples
MSTP-02	Characterization samples and TTS samples
MSTP-03	Characterization samples and TTS samples
Elm Street Area	**Purpose**
ESTP-01	Subsurface feature exploration
ESTP-02	Subsurface feature exploration
ESTP-03	Subsurface feature exploration, characterization samples, and TTS samples
ESTP-04	Characterization samples and TTS samples
ESTP-05	Characterization samples and TTS samples

Paul Sadler of Focus Environmental was on-site to select soil samples for the TTS and assist in collection of samples for characterization of materials from the test pits. Leanne Roulier of Blasland, Bouck and Lee (BBL) prepared samples for shipment to the appropriate laboratories (i.e., Severn Trent for material characterization and Hazen for the TTS). Table 3-1 summarizes the results of PCB analyses conducted on aliquots of soil taken from all three Mill Street test pits and Elm Street test pits 03, 04 and 05.

The test pit samples received from the field were sub-sampled by Hazen personnel "as-received" for various analyses. Table 3-2 provides a summary of the results of metals and elemental analyses conducted on the samples from the same six test pits as the PCB analyses listed in Table 3-1. Analytical

data summaries from the laboratory are included in Attachment B. Table 3-3 summarizes particle size distribution data for the same samples. Results of the particle size distribution analyses are included in Attachment C.

3.2 COMPOSITING AND BLENDING

Two "prepared" soil samples, one representing each area, were generated by blending test pit soil samples from each area. Historical data indicated that the concentration of PCB's in the vicinity of MSTP-1 and ESTP-3 were relatively low, therefore these two samples were not included in the preparation of the "prepared" samples. The "prepared" samples were generated as follows:

- The Mill Street Prepared Sample (PSM) will be generated by mixing equal masses of field samples MSTP-2 and MSTP-3. These two samples should both contain elevated PCB concentrations.
- The Elm Street Prepared Sample (PSE) will be generated by mixing equal masses of field samples ESTP-4 and ESTP-5. These two samples should contain the highest concentrations of PCB at the Elm Street area.

Each "prepared" sample was placed into a 5-gallon bucket, sealed, and then placed on a drum roller for 1-hour to ensure sample homogeneity. Aliquots of each "prepared" sample were collected and analyzed for various parameters. Table 3-4 summarizes elemental and heat content analyses conducted on the two prepared samples. Tables 3-5 and 3-6 summarize PCB analyses conducted on the Mill Street and Elm Street prepared samples, respectively.

3.3 ROTARY THERMAL APPARATUS (RTA) TESTING

3.3.1 Test Conditions

A total of three RTA tests were conducted on the "prepared" soil matrices, two on the Elm Street "prepared" sample and one on the Mill Street "prepared" sample. Each RTA test was conducted using a purge gas of approximately 5% oxygen and 95% nitrogen by volume. The two RTA tests on the Elm Street sample were conducted at soil treatment temperatures of approximately 700 and 900°F. The single test on the Mill Street sample was conducted at a soil treatment temperature of approximately 900°F.

3.3.2 RTA Test Protocol

The protocol for the RTA tests was as follows:

- The RTA test equipment was configured as shown in Figure 2-1.
- The weight of the test soil in the RTA cylinder and water in each impinger was recorded prior to test initiation.

- The gas flows (purge gas and exhaust) was adjusted to provide a slight negative pressure in the quartz kiln. The furnace settings were adjusted to ramp as fast as possible to the target soil temperature (approximately 18 - 22 minutes).
- Readings of various test conditions (i.e., temperatures and off-gas composition) were recorded electronically. Other parameters (i.e., kiln pressure and flow rates) were recorded manually.
- Grab bag samples were collected of the off-gas downstream of the impingers at 5 different soil temperatures. The bag samples were analyzed for light hydrocarbons.
- When the planned soil temperature was reached, the quartz kiln was removed from the furnace and allowed to cool. After cooling, the treated soil was removed, weighed and samples were collected for analysis.
- The water impinger train was disassembled and the weight of water in each impinger was measured and recorded. All glass connections were rinsed with deionized water and the rinse was collected and combined with the water from all of the impingers. The weight of the combined water sample was measured and recorded. A sample of the combined water from each test was collected for analyses.
- The two XAD-2 resin traps were removed and submitted for PCB congener analysis on each tube.

This protocol was repeated until all RTA tests had been conducted on the two "prepared" soil samples.

3.3.3 Residuals Management

All unused samples were returned to the site for receipt by BBL personnel and future disposal by the chosen technology.

4.0 STUDY RESULTS

4.1 SOIL CHARACTERIZATION

Analytical results from test pit and "prepared" samples were presented in Tables 3-1 through 3-6. The following sections provide additional discussions of these analytical results.

4.1.1 PCB's

Concentrations of PCB's in soil samples collected from the Mill Street test pits ranged from 491 mg/kg in test pit MSTP-1 to 6,235 mg/kg in test pit MSTP-3. Concentrations of PCB's in soil samples collected from the Elm Street test pits ranged from 682 mg/kg in test pit ESTP-4 to 1,436 mg/kg in test pit ESTP-3. The concentration of PCB's were approximately 700 and 13,000 mg/kg in the Elm Street and Mill Street "prepared" samples, respectively. The Mill Street results indicate that the "prepared" sample has a significantly higher concentration of PCB than either of the measured PCB concentrations in the three test

pit samples making up the "prepared" sample. This is likely due to nonhomogeneity of the test pit samples, which were blended with a shovel prior to collecting an aliquot for analysis. The remainder of the material was shipped to Hazen where the "prepared" samples were generated by compositing and blending of the test pit samples in a drum roller as described in Section 3.2.

4.1.2 Particle Size Distribution

The particle size distribution measured for each test pit was summarized in Table 3-3. This data indicates that approximately 15 wt% of soils at the site are silts or clays (i.e., fine grained < 200 sieve). The smaller particle sizes have more of a tendency to become air borne and carry over into the air pollution control system of a thermal desorption system. The quantity of carryover for a given soil matrix is dependant upon several desorber drum factors such as drum dimensions, gas velocity in the desorber drum, lifter design, rotational speed and slope of the drum. The quantity of "fines" (i.e., particles < 200 sieve) in the soils from the FPW site is relatively low compared to other sites such that excessive carryover should not be a problem. The data in Table 3-3 should be useful for a thermal treatment contractor to estimate the potential carryover for a specific equipment design.

4.1.3 Thermal Properties

Soil characteristics that are useful for evaluating the thermal impact of treating contaminated soils from the site were summarized in Tables 3-2 and 3-4. The carbon content of soil samples from the site ranged from approximately 1.3 wt% at the Elm Street area to approximately 3.4 wt% at the Mill Street area. The heat content of soil samples collected from the Mill Street test pits ranged from 343 to 524 Btu/lb. The heat content of soil samples collected from the Elm Street test pits ranged from 124 to 207 Btu/lb. The amount of heat release that can be expected from the soil is dependant upon the type of system being used. Directly heated systems would release more of the available heat than indirectly heated systems.

The moisture content of soil samples from the two areas ranged from 6.6 wt% to 14.4 wt% with an average of approximately 11 wt%.

4.1.4 Metals

Analytical results for metals in site soil samples were summarized in Table 3-2. This data will be useful for evaluating potential metals emissions from a thermal treatment system.

4.2 TTS PROCESS DATA

Process data associated with the test runs was collected both manually and electronically. Batch data forms have been included in Attachment D of this report. Operational data collected electronically has been summarized and included in Attachment E.

4.3 IMPINGER WATER DATA

The water and rinse from the impingers were combined into a single mass for each test run. The combined mass of water was sampled and analyzed for total chlorides, sulfur, sulfate, acidity and total organic carbon (TOC). The results are summarized in Table 4-1. The only parameter detectable in each sample was TOC. Chloride and sulfur were detected in the water from the 900°F Mill Street test run. Sulfur was detected in the 900°F Elm Street test run.

4.4 OFF-GAS DATA

Off-gas composition during each test was measured by three different mechanisms as follows:

- Continuous Emission Monitors (CEM's) were used to measure carbon monoxide (CO), oxygen (O_2), carbon dioxide (CO_2) and total hydrocarbons (THC).
- Bag samples were collected of the off-gas at specified soil treatment temperatures for the two 900 °F test runs and analyzed for light hydrocarbons and other gases (CO, CO_2, O_2 and hydrogen).
- A portion of the off-gas was diverted through a dual set of XAD resin traps (in series) to measure the mass of PCB's emitted during the test.

Results from the CEM's are summarized in Attachment E. Figures 4-1, 4-2 and 4-3 present off-gas CO and THC from the CEM's as a function of soil treatment temperature for each of the three test runs. In general, increased soil treatment temperature and increased carbon content of the starting soil result in increased CO and THC concentration in the off-gas. All three graphs are on the same scale so the relative magnitude of the measured off-gas compositions can more easily be seen.

The CO and THC CEM's used in this study were calibrated for a maximum concentration of 5,000 ppmdv. The off-gas in test run 3 had concentrations of CO in excess of 5,000 ppmdv. The off-gas in test runs 2 and 3 had concentrations of THC in excess of 5,000 ppmdv. Therefore, data in Attachment E and on Figures 4-2 and 4-3 for these test runs have been estimated for these parameters where the calibration range of the CEM's was exceeded. Data collected from bag samples of the off-gas was used as a basis for the estimated CO concentrations.

Results from the bag sample analyses are summarized in Table 4-2 for the major components identified in the off-gas. The complete listing of components found in the off-gas and the associated composition are summarized in Attachment F. Methane was the predominant light hydrocarbon identified in the off-gas. Concentrations of the light hydrocarbons were found to be the highest at a soil treatment temperature of 900°F. Hydrogen was also identified in the off-gas at a soil treatment temperature of 900°F for both test runs sampled.

The XAD resin tubes shown in Figure 2-1 were analyzed separately to determine the concentration of PCB's in the off-gas downstream of the water impingers. Table 4-3 provides a summary of the analytical results from these two samples for each test run. The concentration of PCB was calculated by dividing

the mass of PCB captured in the tubes by the total volume of gas sampled. Concentrations of PCB in the off-gas ranged from 195 mg/m^3 in the 700°F Elm Street test (Run 1) to 1,355 mg/m^3 in the Mill Street 900°F test run (Run 3).

4.5 GENERATION FACTORS

The off-gas data collected during the testing was evaluated to calculate "generation factors" for each soil matrix as a function of soil treatment temperature. Generation factors are defined as mass of a specific component in the off-gas per ton of starting soil. Generation factors were calculated for CO, THC and condensable carbon (i.e., mass of carbon found in the impinger water). Since these components are all carbon based and the starting concentration of carbon was different for each soil matrix tested, generation factors were also calculated as mass of each component per pound of starting carbon. Spreadsheets showing how the generation factors were calculated are provided in Attachment G. Table 1-1 provided a summary of the generation factors calculated from this test. The results show that the generation factors increase with an increase in soil treatment temperature. The generation factors per ton of soil were determined to be higher for the Mill Street soil matrix compared to the Elm Street soil matrix. Generation factors per pound of carbon were found to be similar for both matrices with the exception of THC at the 900°F test condition where the generation factor for the Elm Street matrix was approximately 2 times the generation factor for the Mill Street matrix. These generation factors can be used to estimate the approximate loading to a thermal desorption units air pollution control system. For indirectly heated systems, the generation factors for CO and THC can be used to estimate the concentrations of these gases at the exit of the carbon adsorption system. Most indirectly heated systems being utilized to remediate contaminated soils inject the off-gas from the carbon adsorption system into the burners heating the shell to control emissions of CO and THC from the unit.

The condensable carbon generation factor can be used to estimate the potential carbon utilization to treat wastewater generated from the air pollution control system.

5.0 CONCLUSIONS

5.1 TREATMENT TEMPERATURE

Thermal treatment of PCB's in contaminated soil is well documented. Historically, soil treatment temperatures between 700 and 900°F have produced treated soil with PCB concentrations less than 1 mg/kg. In this study, thermal desorption at 700°F of soil from the Elm Street area did not meet the cleanup goal. However, thermal desorption of soil from both areas at temperatures of 900°F resulted in treated soil that meets the cleanup goal. Therefore, the optimum temperature for treatment of PCB contaminated soil from the FPW site is somewhere between 700 and 900°F. The optimum temperature for processing the soils that would minimize fuel usage and still attain the required cleanup goal would be

determined during a contaminated soil shakedown period prior to conducting the performance test on the thermal desorption system.

The primary heating chamber of thermal desorption systems that may be used to process soils at the FPW site must be made of alloy steel capable of operating at these elevated temperatures on an ongoing basis. Systems made of carbon steel would have difficulty operating at these temperatures on an ongoing basis without warping the desorber drum.

5.2 PCB ANALYSIS

Thermal desorption of contaminants from soil has the potential to alter the chemical structure of the contaminant being treated either by stripping off portions of the compound structure or actual decomposition of the entire structure to smaller molecules. PCB's are actually a mixture of multiple congeners with similar structures but with varying numbers of chlorine atoms substituted on a ringed structure. Specific mixtures of PCB congeners are called Aroclors. The typical analytical method used to analyze for PCB's is Method 8082A which relies on Aroclor patterns to obtain a quantitative result. Method 1668 is another analytical method that is used to quantify individual PCB congeners. The results are summed to obtain a total PCB concentration. During the treatability study, PCB's were analyzed in the soil samples using both Method 8082A and 1668.

Comparison of the PCB analyses by the two methods could not be made at the 900°F test condition because the concentrations for all PCB were either near or below analytical detection limits and several of the PCB homologues were detected in the Method Blank for the Mill Street 900°F test sample (TST-900) for the 1668 analysis. However, there was sufficient PCB's remaining in the treated soil sample at the 700°F test condition for the Elm Street soil to be able to compare the analytical results by both methods. The proportions of each PCB homologue were compared for similarities in the feed and treated soil for the 700°F Elm Street soil test (see Figure 5-1). The comparison indicates that the proportions of each PCB homologue are very similar between the feed soil and thermally treated soil. The analytical laboratory identified Arochlor patterns in the chromatogram for the 8082A analysis of the treated soil sample at the 700°F test condition.

Based on these observations, Method 8082A should be acceptable for analyzing treated soil from the thermal process to demonstrate compliance with the cleanup goal.

Tables

Table 1-1. Calculated Generation Factors

Component	Elm Street @ 700°F	Elm Street @ 900°F	Mill Street @ 900°F
Pound of Component per Ton of Starting Soil			
Carbon Monoxide	0.609	0.847	1.623
Total Hydrocarbon (a)	0.631	1.980	2.456
Condensable Carbon (b)	0.068	0.081	0.096
Pound of Component per Pound of Starting Carbon			
Carbon Monoxide	0.0238	0.0331	0.0238
Total Hydrocarbon (a)	0.0246	0.0774	0.0361
Condensable Carbon (b)	0.0027	0.0032	0.0014
Ratio of Carbon (CO_2/CO) (c)	5.6	10.3	16.2

Notes:

a) As propane.
b) As total organic carbon (TOC) in water.
c) Mass of carbon in CO_2 to mass of carbon in CO.
d) All generation factors were measured in a system purged with 5% O_2 during heating.

Table 3-1. PCB Results for Test Pit Soil Samples

PCB Congener	ESTP-3 Result (mg/kg)	ESTP-4 Result (mg/kg)	ESTP-5 Result (mg/kg)	MSTP-1 Result (mg/kg)	MSTP-2 Result (mg/kg)	MSTP-3 Result (mg/kg)
Monochlorinated PCB (a)	0.0	0.0	0.0	0.0	0.04	9.6
Dichlorinated PCB (b)	34.6	7.7	6.0	0.26	165.4	947.4
Trichlorinated PCB (c)	291.9	77.0	104.6	63.3	1,307.1	2,171.9
Tetrachlorinated PCB (d)	930.9	240.9	503.5	338.9	2,059.4	2,563.6
Pentachlorinated PCB (e)	164.6	242.8	91.2	82.0	405.4	492.1
Hexachlorinated PCB (f)	13.3	102.3	9.4	6.6	30.1	46.7
Heptachlorinated PCB (g)	0.9	11.3	1.3	0.28	2.3	3.5
Octachlorinated PCB (h)	0.0	0.0	0.1	0.0	0.12	0.0
Nonachlorinated PCB (i)	0.0	0.0	0.1	0.0	0.0	0.0
Decachlorinated PCB (j)	0.0	0.0	0.0	0.0	0.0	0.0
Total PCB's (k)	1,436	682	716	491	3,970	6,235
Total PCB's (by Method 8082)	NA	1,000	510	920	5,700	15,000
Moisture Content (wt%)	12.2	7.5	10.1	23.1	12.9	13.8

ESTP means "Elm Street Test Pit" and MSTP means "Mill Street Test Pit"

Notes:

a) IUPAC #1 - #3
b) IUPAC #4 - #15
c) IUPAC #16 - #39
d) IUPAC #40 - #81
e) IUPAC #82 - #127
f) IUPAC #128 - #169
g) IUPAC #170 - #193
h) IUPAC #194 - #205
i) IUPAC #206 - #208
j) IUPAC #209

k) Sum of mono through deca PCB's (Method 1668) with nondetects equal to "0".
The lowest cleanup goal for PCB's at the Fletcher Paint site is 1 mg/kg.

Table 3-2. Test Pit Soil Analytical Data

Parameter	Units	Sample Name					
		MSTP-1	MSTP-2	MSTP-3	ESTP-3	ESTP-4	ESTP-5
Dry Basis (a)							
Metals							
Arsenic	mg/kg	7	8	19	10	10	10
Barium	mg/kg	120	66	100	140	53	89
Beryllium	mg/kg	ND	ND	0.094	ND	0.071	0.170
Cadmium	mg/kg	0.20	0.13	0.47	0.20	0.23	0.27
Chromium	mg/kg	26	12	15	33	11	15
Lead	mg/kg	120	51	83	340	30	130
Selenium	mg/kg	ND	ND	ND	ND	ND	ND
Silver	mg/kg	0.51	0.52	0.50	ND	0.46	0.40
Mercury	mg/kg	0.039	0.053	0.040	4.91	0.139	0.261
Proximate							
Ash	wt. %	93.60	94.41	95.03	97.27	98.17	97.14
Volatile	wt. %	4.97	6.21	6.23	3.89	1.94	2.34
Fixed C	wt. %	1.43	<0.01	<0.01	<0.01	<0.01	0.52
Heat Content	Btu/lb	576	560	400	232	133	169
Total Chlorine/Chloride	wt. %	0.02	0.16	0.57	0.03	0.02	0.03
As Received (Wet Basis) (b)							
Proximate							
Moisture	wt. %	9.02	14.36	14.26	10.66	6.60	12.25
Ash	wt. %	85.16	80.85	81.48	86.90	91.69	85.24
Volatile	wt. %	4.52	5.32	5.34	3.47	1.82	2.05
Fixed C	wt. %	1.30	<0.01	<0.01	<0.01	<0.01	0.46
Heat Content	Btu/lb	524	480	343	207	124	148
Total Chlorine/Chloride	wt. %	0.02	0.14	0.49	0.03	0.02	0.03

ND = Nondetect

Notes

a) Soil samples submitted for analyses were dried at 160°F and pulverized.

b) As received moisture, ash, fixed C, calorific value, and chlorine are calculated values.

Table 3-3. Particle Size Distribution for Test Pit Samples

Sieve Size	Size (microns)	Percent Finer by Weight						
		Mill Street Samples			Elm Street Samples			Average
		MSTP-1	MSTP-2	MSTP-3	ESTP-3	ESTP-4	ESTP-5	
Mechanical Analysis								
(3")	76,200	100	100	100	100	100	100	100
(1.5")	38,100	100	100	100	100	100	100	100
(0.75")	19,050	90.6	100	95	93.7	92.1	95.2	94.4
(0.375")	9,525	86.1	96.9	91.2	88.6	84.3	85.2	88.7
#4	4,750	81.4	90	87.6	81.8	79.5	79.3	83.3
#10	2,000	72.2	77.6	80.3	69.9	70.2	71.5	73.6
#20	841	54.1	60.3	71.1	53.4	53.1	59.5	58.6
#40	420	32.5	40	58.9	37.2	31.2	48	41.3
#60	250	21.4	28.8	49.2	26.2	18.1	39.3	30.5
#100	149	14.9	19.9	40.8	18.1	10.4	29.2	22.2
#200	74	11.2	14.9	30.6	12.6	6.6	17.6	15.6
Hydrometer Analysis								
0.0700 mm	70	9.8	12.6	28.5	11.2	6.1	16.7	14.2
0.0490 mm	49	8.7	10.9	24.3	8.7	5.3	12.7	11.8
0.0350 mm	35	7.9	9.2	20.2	7.5	4.1	10.7	9.9
0.0220 mm	22	6.5	7.6	16.0	5.3	3.2	8.7	7.9
0.0130 mm	13	5.0	6.7	11.8	3.7	2.4	6.0	5.9
0.0092 mm	9.2	4.0	5.9	9.0	2.8	1.5	4.7	4.7
0.0065 mm	6.5	3.6	4.6	7.6	2.2	1.5	3.7	3.9
0.0046 mm	4.6	3.6	2.9	5.2	1.2	0.6	3.0	2.8
0.0032 mm	3.2	2.5	2.5	3.8	0.3	0.6	2.0	2.0
0.0014 mm	1.4	2.2	2.5	2.1	0.0	0.6	1.7	1.5

Table 3-4. Prepared and Treated Soil Sample Analytical Data

Parameter	Units	Prepared Soil Samples		Treated Soil Samples		
		Elm Street (a)	Mill Street (PSM)	Elm Street 700°F (TSE-700)	Elm Street 900°F (TSE-900)	Mill Street 900°F (TSM-900)
Dry Basis						
Proximate						
Ash	wt. %	97.41	94.07	97.42	98.00	98.12
Volatile	wt. %	2.25	4.31	2.91	1.92	2.05
Fixed C	wt. %	0.35	1.62	<0.01	0.08	<0.01
Elemental						
Carbon	wt. %	1.41	3.96	1.65	1.36	1.28
Hydrogen	wt. %	0.08	0.22	0.12	0.04	0.01
Nitrogen	wt. %	0.26	0.28	0.25	0.23	0.22
Sulfur	wt. %	0.02	0.06	0.02	0.02	0.02
Oxygen	wt. %	0.84	1.41	0.54	0.35	0.35
Total Chlorine/Chloride	wt. %	0.04	0.50	0.03	0.02	0.05
Heat Content	Btu/lb	196	449			
Leachable Chloride	wt. %	< 0.005	0.021	< 0.005	0.008	0.022
As Received (Wet Basis)						
Proximate						
Moisture	wt. %	9.19	14.00	<0.01	0.05	0.24
Ash	wt. %	88.46	80.90	97.42	97.95	97.88
Volatile	wt. %	2.04	3.71	2.91	1.92	2.05
Fixed C	wt. %	0.32	1.39	<0.01	0.08	<0.01
Elemental						
Carbon	wt. %	1.28	3.40	1.65	1.36	1.28
Hydrogen	wt. %	0.07	0.19	0.12	0.04	0.01
Nitrogen	wt. %	0.23	0.24	0.25	0.23	0.22
Sulfur	wt. %	0.02	0.05	0.02	0.02	0.02
Oxygen	wt. %	0.77	1.22	0.54	0.35	0.35
Total Chlorine/Chloride	wt. %	0.04	0.43	0.03	0.02	0.05
Heat Content	Btu/lb	178	386			

a) Average of Elm Street prepared sample and a duplicate analysis (PSE and PSE-D).

Table 3-5. PCB Results for Mill Street Thermal Test Soil Samples

PCB Congener	Mill Street Prepared Sample PSM (mg/kg)	Treated Soil @ 900 °F TST-900 (mg/kg)
Monochlorinated PCB (a)	9.1	0.02
Dichlorinated PCB (b)	1,382	0.07
Trichlorinated PCB (c)	2,666	0.08
Tetrachlorinated PCB (d)	7,095	0.07
Pentachlorinated PCB (e)	1,547	< 0.08
Hexachlorinated PCB (f)	173	< 0.08
Heptachlorinated PCB (g)	17	< 0.04
Octachlorinated PCB (h)	3.8	< 0.02
Nonachlorinated PCB (i)	0.6	< 0.01
Decachlorinated PCB (j)	< 0.002	< 0.002
Total PCB's (Method 1668) (k)	12,893	0.23
Total PCB's (Method 8082)	140,000	0.05
Moisture Content (wt%)	13.6	0.0

Notes:

a) IUPAC #1 - #3
b) IUPAC #4 - #15
c) IUPAC #16 - #39
d) IUPAC #40 - #81
e) IUPAC #82 - #127
f) IUPAC #128 - #169
g) IUPAC #170 - #193
h) IUPAC #194 - #205
i) IUPAC #206 - #208
j) IUPAC #209

k) Sum of mono through deca PCB's (Method 1668) with nondetects equal to "0". The lowest cleanup goal for PCB's at the Fletcher Paint site is 1 mg/kg.

Table 3-6. PCB Results for Elm Street Thermal Test Soil Samples

PCB Congener	Prepared Sample PSE (mg/kg)	Treated Soil @ 700 °F TSW-700 (mg/kg)	Treated Soil @ 900 °F TSW-900 (mg/kg)
Monochlorinated PCB (a)	< 0.01	0.03	< 0.01
Dichlorinated PCB (b)	7.3	0.26	< 0.02
Trichlorinated PCB (c)	122	0.91	< 0.05
Tetrachlorinated PCB (d)	248	1.33	< 0.08
Pentachlorinated PCB (e)	238	0.87	< 0.08
Hexachlorinated PCB (f)	94	0.22	< 0.08
Heptachlorinated PCB (g)	7.8	0.01	< 0.04
Octachlorinated PCB (h)	0.8	< 0.02	< 0.02
Nonachlorinated PCB (i)	< 0.01	< 0.01	< 0.01
Decachlorinated PCB (j)	< 0.002	< 0.002	< 0.002
Total PCB's (Method 1668) (k)	718	3.6	< 0.39
Total PCB's (Method 8082)	850	1.2	0.16
Moisture Content (wt%)	8.1	0.0	0.0

Notes:

a) IUPAC #1 - #3
b) IUPAC #4 - #15
c) IUPAC #16 - #39
d) IUPAC #40 - #81
e) IUPAC #82 - #127
f) IUPAC #128 - #169
g) IUPAC #170 - #193
h) IUPAC #194 - #205
i) IUPAC #206 - #208
j) IUPAC #209

k) Sum of mono through deca PCB's (Method 1668) with nondetects equal to "0".
The lowest cleanup goal for PCB's at the Fletcher Paint site is 1 mg/kg.

Table 4-1. Impinger Water Analytical Results

Parameter	Units	Elm Street		Mill Street
		@ 700°F	@ 900°F	@ 900°F
Total Chloride	mg/l	< 0.1	< 0.1	5.6
Total Sulfur	mg/l	< 1.0	4.0	7.0
Sulfate	mg/l	< 1.0	< 1.0	< 1.0
Acidity	mg/l	< 5.0	< 5.0	< 5.0
Total Organic Carbon	mg/l	38.0	70.4	284.0

Table 4-2. Analytical Results from Offgas Bag Samples

Component	Units	Elm Street - 900°F Test (Run 2)					Mill Street - 900°F Test (Run 3)				
		200°F	400°F	600°F	700°F	900°F	200°F	400°F	600°F	700°F	900°F
Hydrogen	ppmdv					110					1,611
Carbon Monoxide	ppmdv		80	2,819	3,120	2,010		300	4,620	7,733	4,620
Carbon Dioxide	ppmdv	670	2,640	11,328	11,172	8,992	760	7,570	32,060	32,631	18,215
Methane	ppmdv	2	5	27	139	212	2	6	58	233	954
Ethylene	ppmdv		1	13	64	60		2	27	68	255
Ethane	ppmdv		1	2	13	52			3	19	297
Propylene	ppmdv		3	15	63	66		6	50	75	376
Propane	ppmdv		1	2	16	22		1	3	24	145
Oxygen	vol%	6.8	6.2	5.4	5.7	5.5	5.0	4.6	3.1	4.5	3.6

Table 4-3. PCB Results for XAD Tube Samples

PCB Congener	First (Top) XAD Tube			Second (Bottom) XAD Tube	
	Run 1 (mg)	Run 2 (mg)	Run 3 (mg)	Run 2 (mg)	Run 3 (mg)
Monochlorinated PCB (a)	0.2	0.5	1.3	0.0	0.0
Dichlorinated PCB (b)	2.1	3.4	38.4	0.4	1.7
Trichlorinated PCB (c)	7.6	12.5	47.5	1.3	3.2
Tetrachlorinated PCB (d)	14.0	22.7	104.8	3.2	6.9
Pentachlorinated PCB (e)	9.7	15.8	45.9	2.1	1.3
Hexachlorinated PCB (f)	2.7	5.2	6.0	0.8	0.1
Heptachlorinated PCB (g)	0.1	0.1	0.4	0.0	0.0
Octachlorinated PCB (h)	0.0	0.0	0.0	0.0	0.0
Nonachlorinated PCB (i)	0.0	0.0	0.0	0.0	0.0
Decachlorinated PCB (j)	0.0	0.0	0.0	0.0	0.0
Total PCB's (k)	36.5	60.3	244.2	7.8	13.2
Gas Volume Collected (Nm^3)	0.187	0.180	0.190		
Average Gas Conc. (mg/Nm^3)	195	378	1,355		

Run 1 - Elm Street @ 700°F, Run 2 - Elm Street @ 900°F, Run 3 - Mill Street @ 900°F

Notes:

a) IUPAC #1 - #3
b) IUPAC #4 - #15
c) IUPAC #16 - #39
d) IUPAC #40 - #81
e) IUPAC #82 - #127
f) IUPAC #128 - #169
g) IUPAC #170 - #193
h) IUPAC #194 - #205
i) IUPAC #206 - #208
j) IUPAC #209

k) Sum of mono through deca PCB's from Method 1668 analysis with nondetects assumed to be "0".

Figures

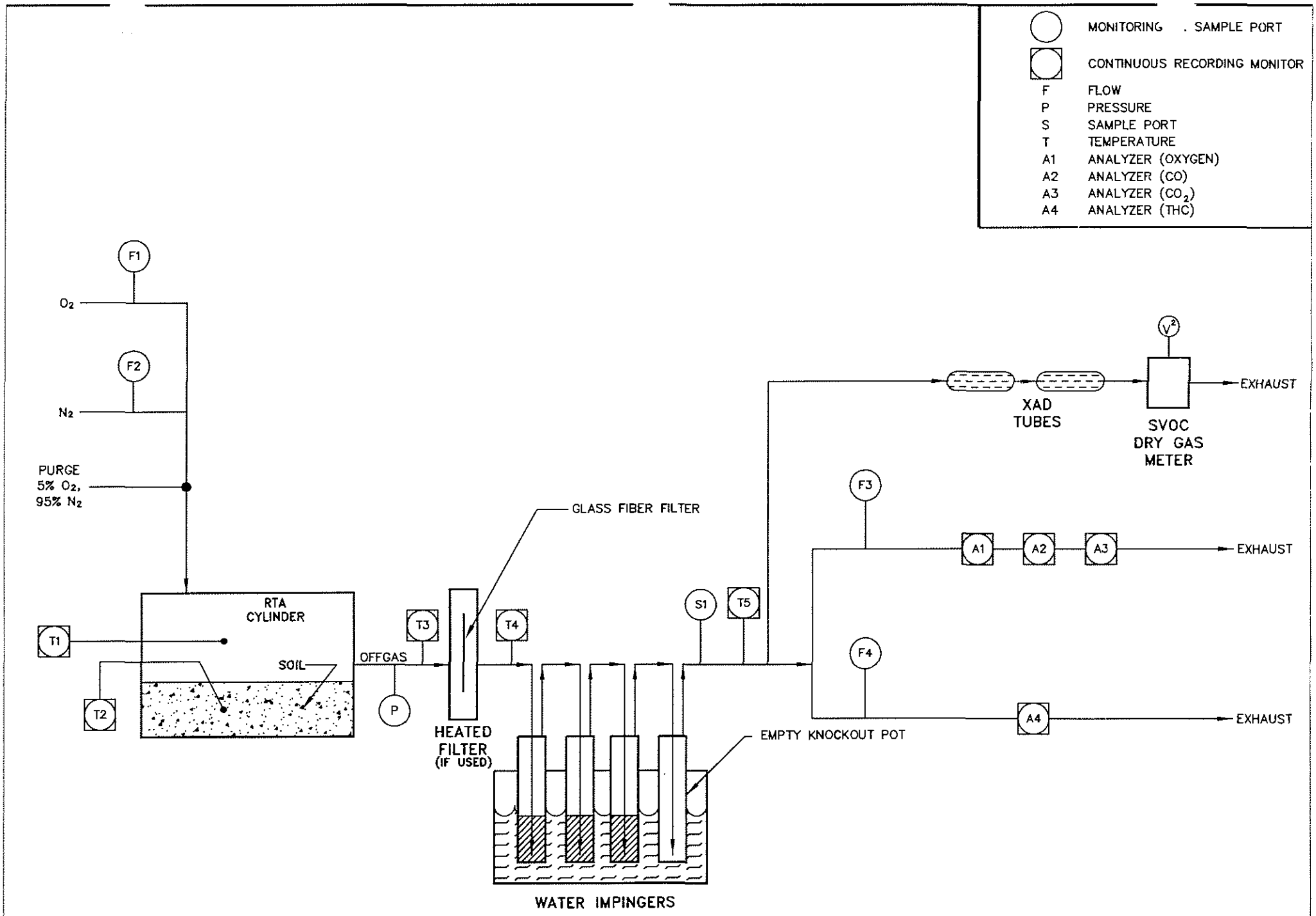


Figure 2-1. Flow and Monitoring Diagram for RTA Testing

09/29/04	BBLF2-1	010404

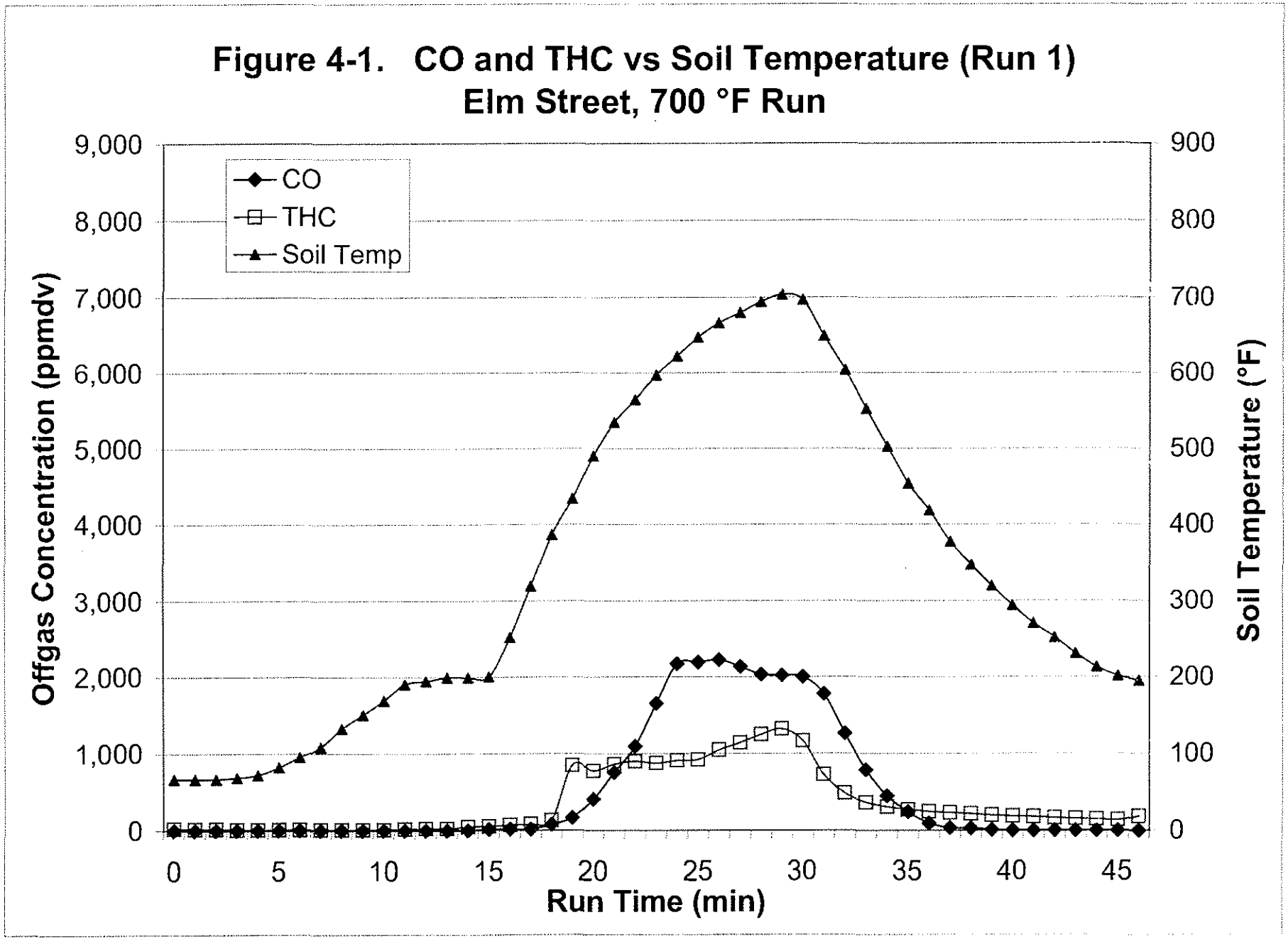


Figure 4-1. CO and THC vs Soil Temperature (Run 1)
Elm Street, 700 °F Run
CO
THC
Soil Temp
Offgas Concentration (ppmdv)
Soil Temperature (°F)
Run Time (min)
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
900
800
700
600
500
400
300
200
100
0
0
5
10
15
20
25
30
35
40
45

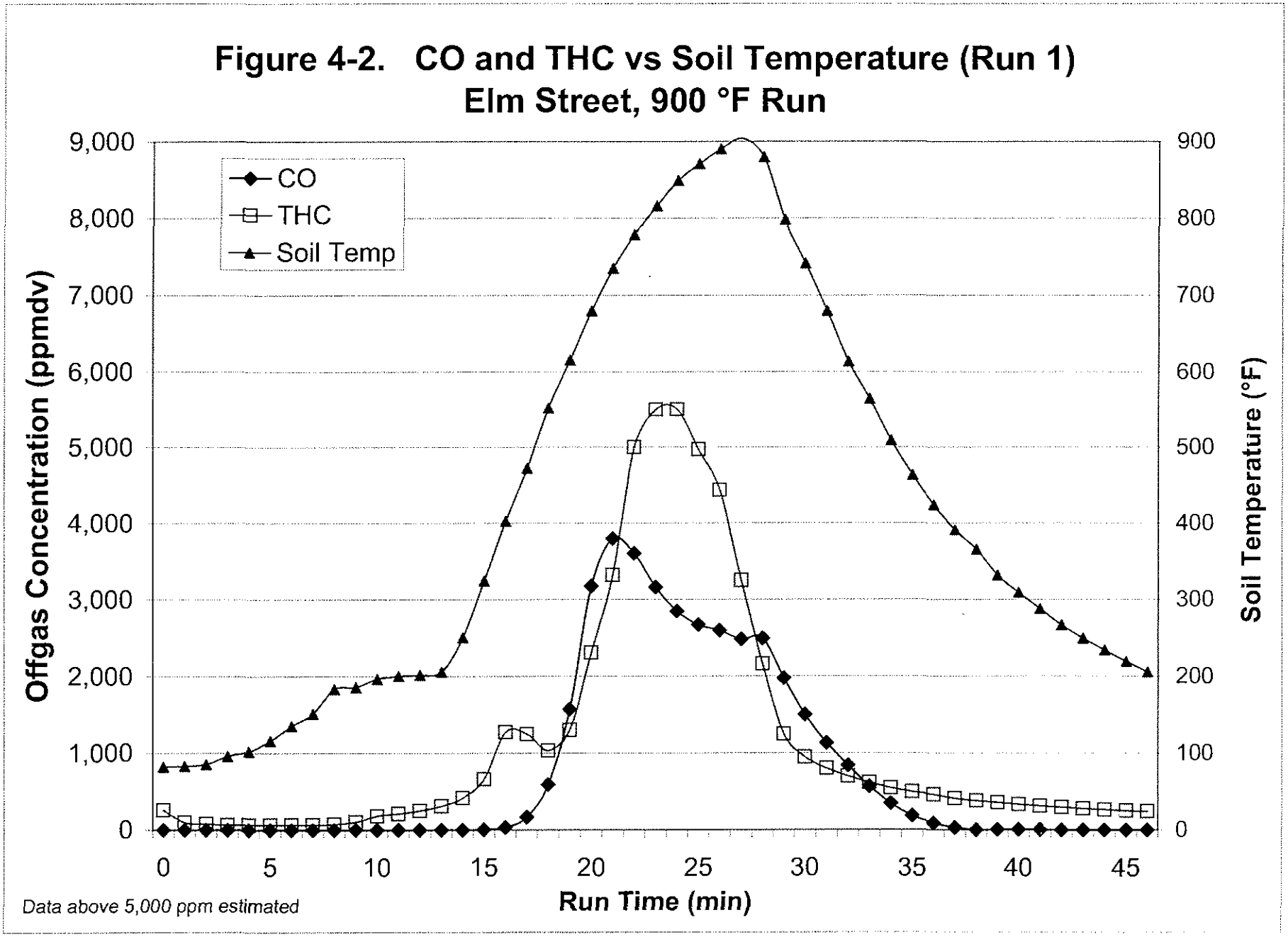


Figure 4-2. CO and THC vs Soil Temperature (Run 1)
Elm Street, 900 °F Run
CO
THC
Soil Temp
Offgas Concentration (ppmdv)
Soil Temperature (°F)
Run Time (min)
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
900
800
700
600
500
400
300
200
100
0
0
5
10
15
20
25
30
35
40
45
Data above 5,000 ppm estimated

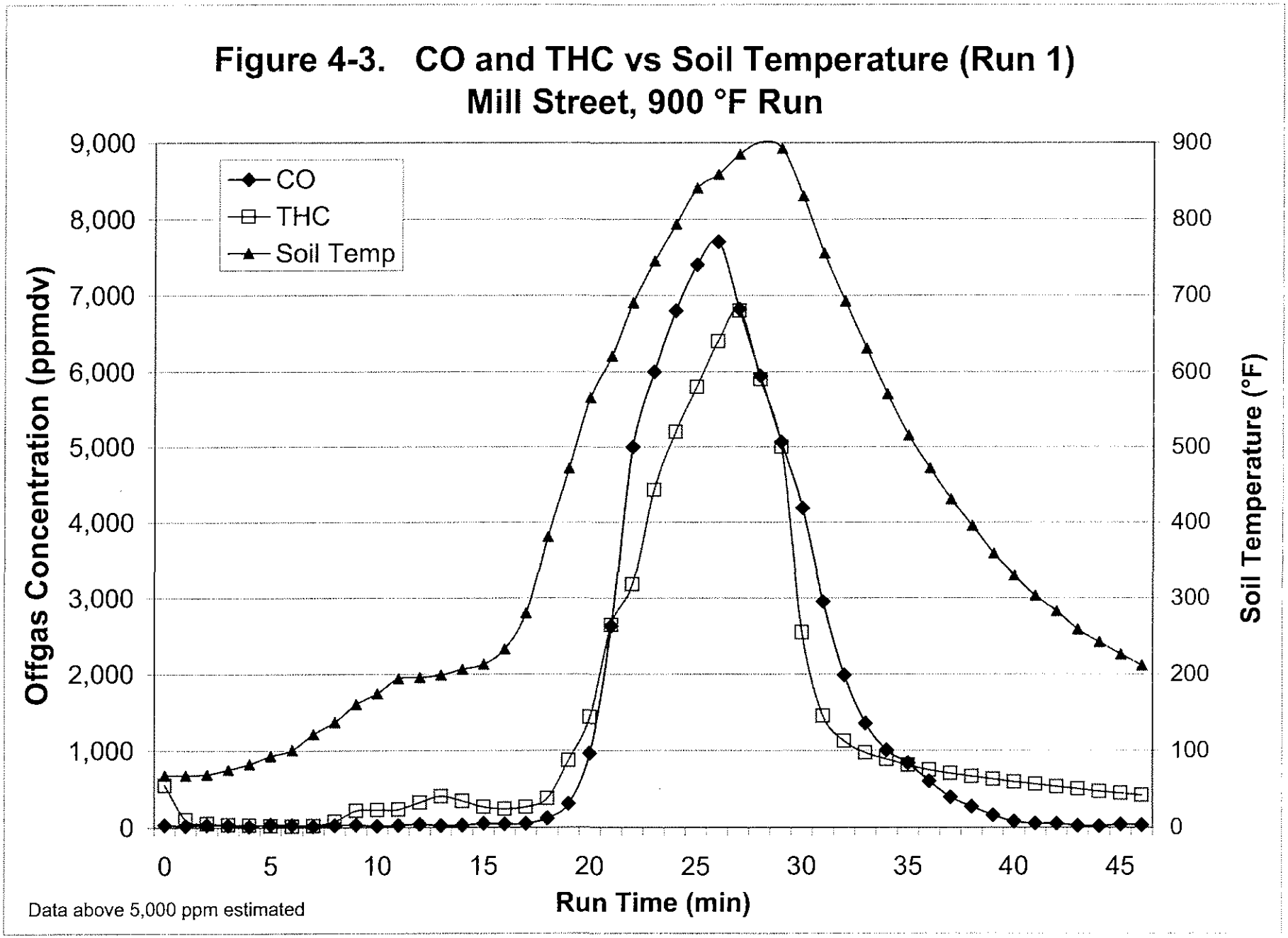
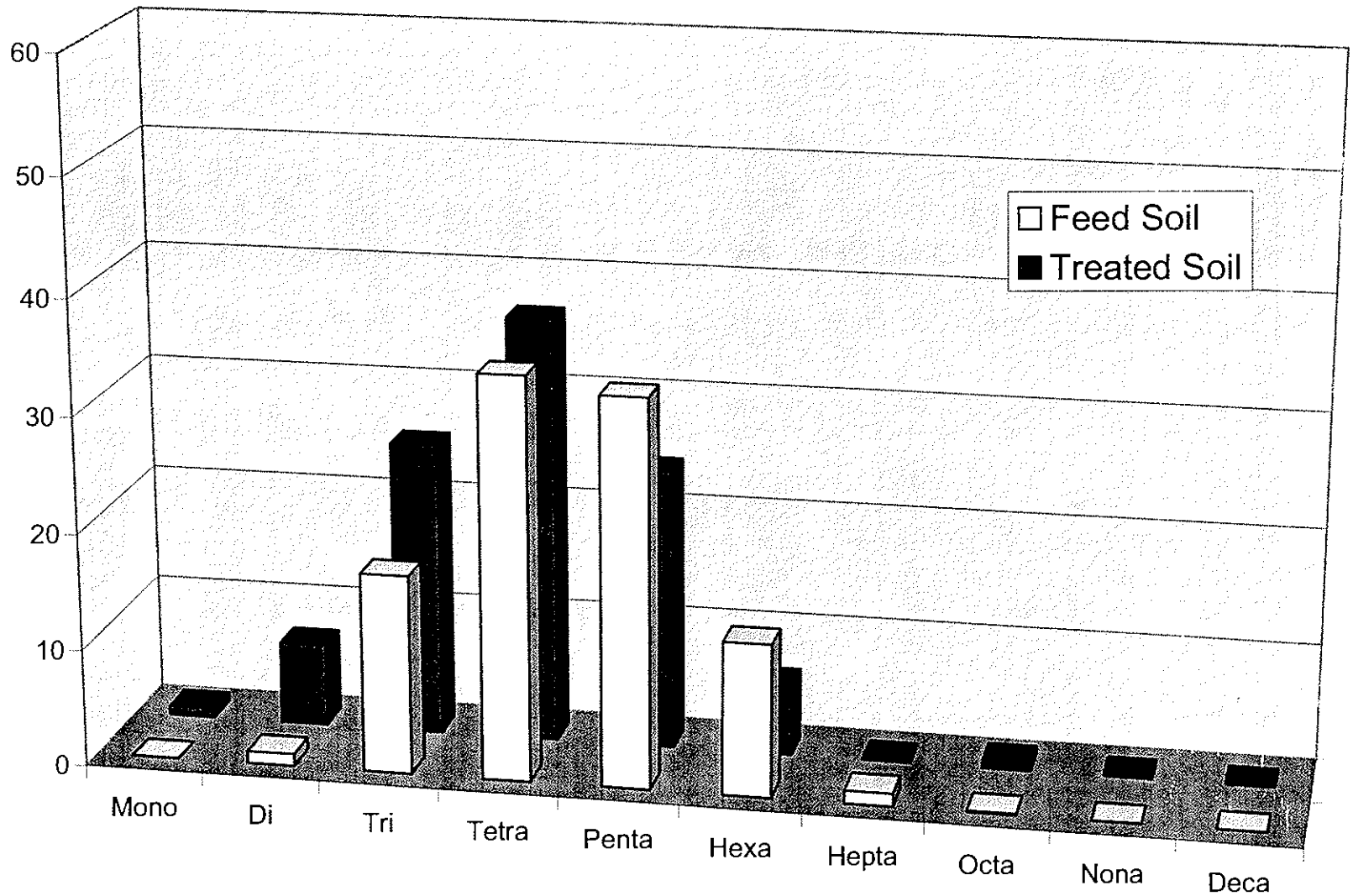


Figure 4-3. CO and THC vs Soil Temperature (Run 1)
Mill Street, 900 °F Run
CO
THC
Soil Temp
Offgas Concentration (ppmdv)
Soil Temperature (°F)
Run Time (min)
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
900
800
700
600
500
400
300
200
100
0
0
5
10
15
20
25
30
35
40
45
Data above 5,000 ppm estimated

Figure 5-1. Comparison of PCB Homolog Proportions - Elm Street 700°F Test



% of Total PCB's for each PCB homolog series (PSE vs TSW-700)

Fletcher Paint Works Site
Thermal Desorption Treatability Study
Draft Attachments

A. Thermal Treatability Study Pictures
B. Analytical Data
C. Particle Size Distribution Results
D. Test Run Data Forms
E. Test Operational Data
F. Bag Sample Analytical Data
G. Generation Factor Calculations

Attachment A

Thermal Treatability Study Pictures

A01 - Corner of Concrete Pad at Mill Street Test Pit 01

A02 - Mill Street Test Pit 02 - Dark Layer

A03 - Mill Street Test Pit 03 - Dark Layer

A04 - Granite Blocks – Elm Street Test Pit 01C

A05 - Rocks in Elm Street Test Pit 02B

A06 - Granite Blocks – Elm Street Test Pit 02C

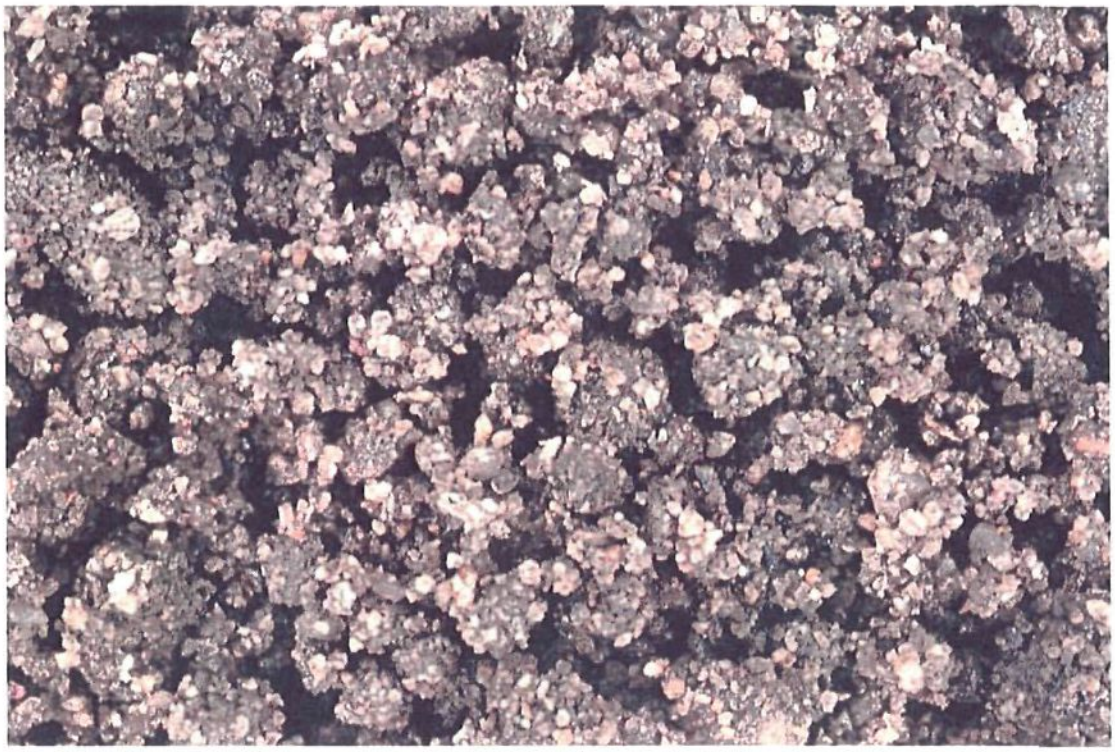
A07 - Burn Pit Material from Elm Street Test Pit 05

——— = 5 mm 2.2 ×

A08 – Mill Street Prepared Soil

——— = 5 mm 3.4 ×

A09 – Mill Street Prepared Soil, Higher Magnification

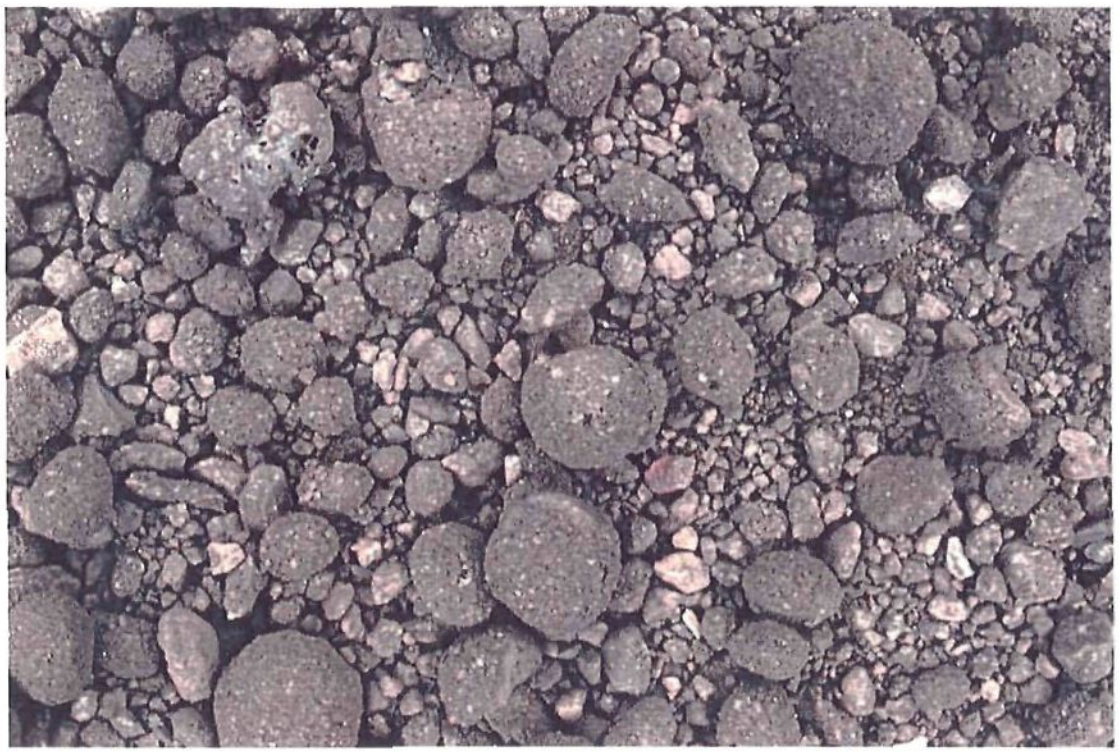


——— = 5 mm 2.2 ×

A10 – Elm Street Prepared Soil

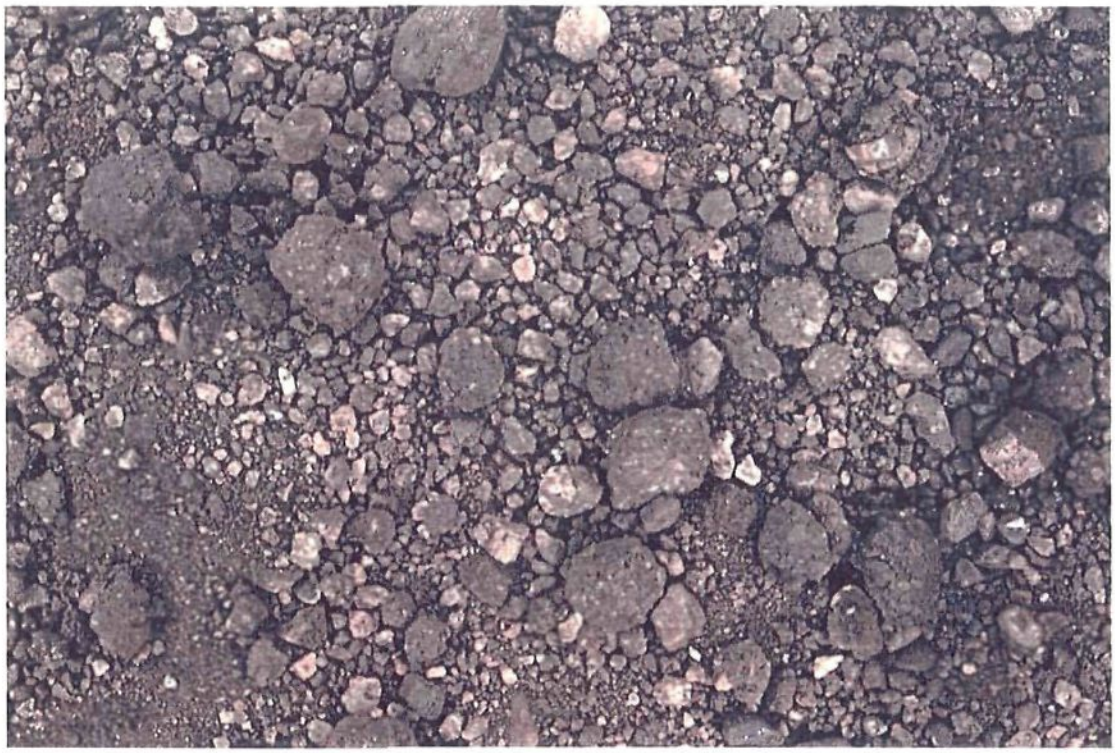
——— = 5 mm 2.2 ×

A11 – Elm Street Treated Soil (700 °F)



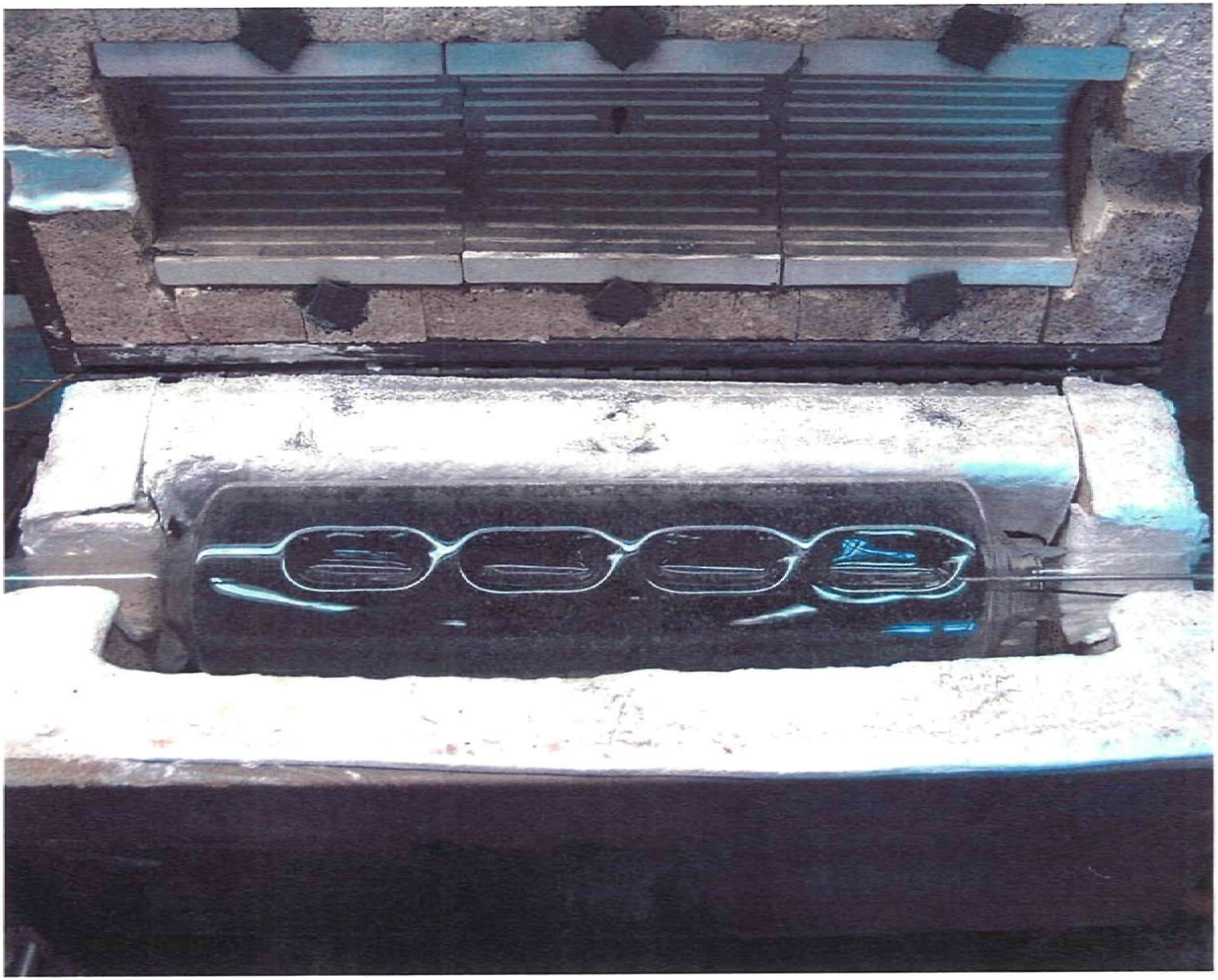
——— = 5 mm 2.2 ×

A12 – Elm Street Treated Soil (900 °F)

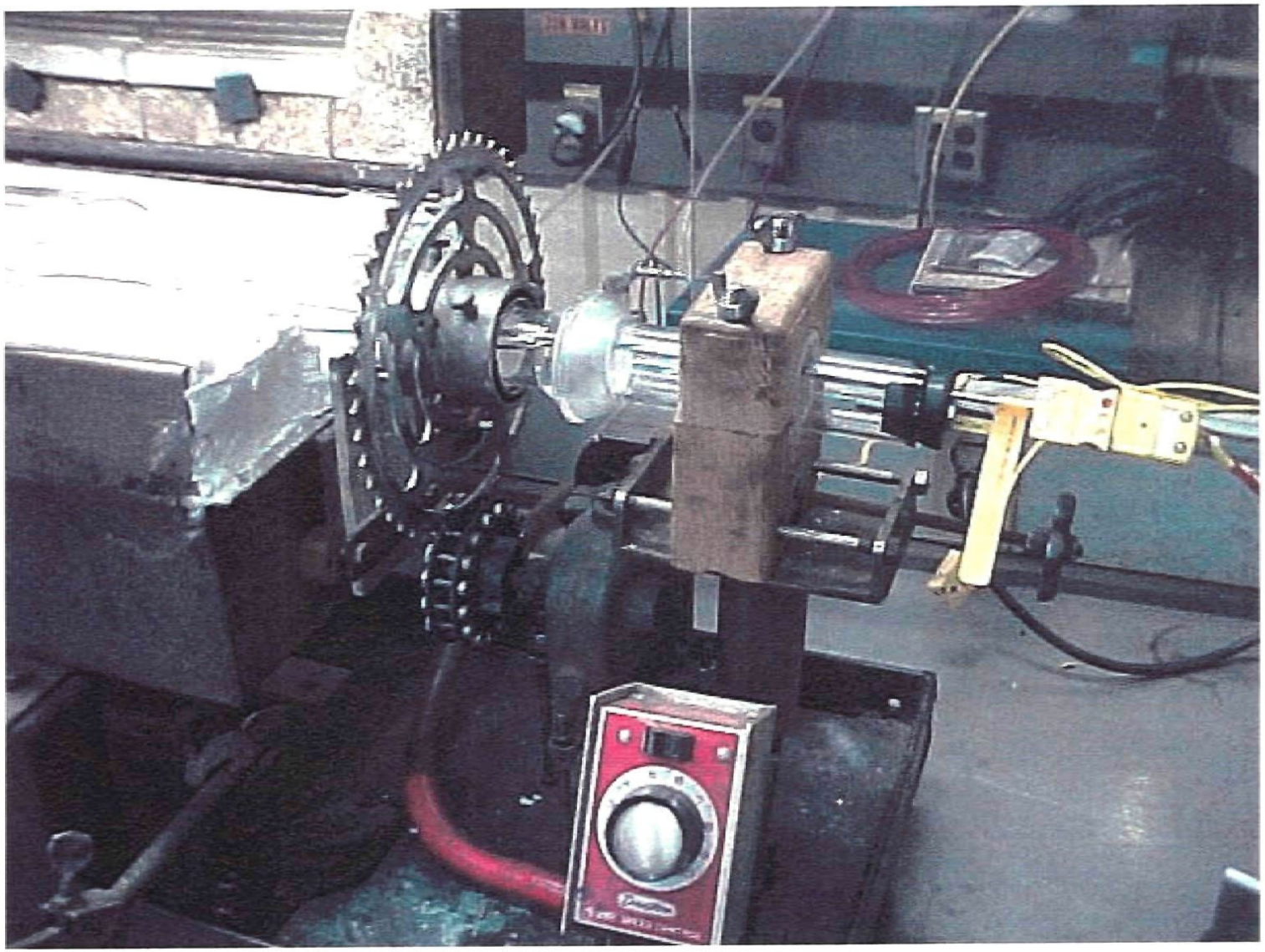


——— = 5 mm 2.2 ×

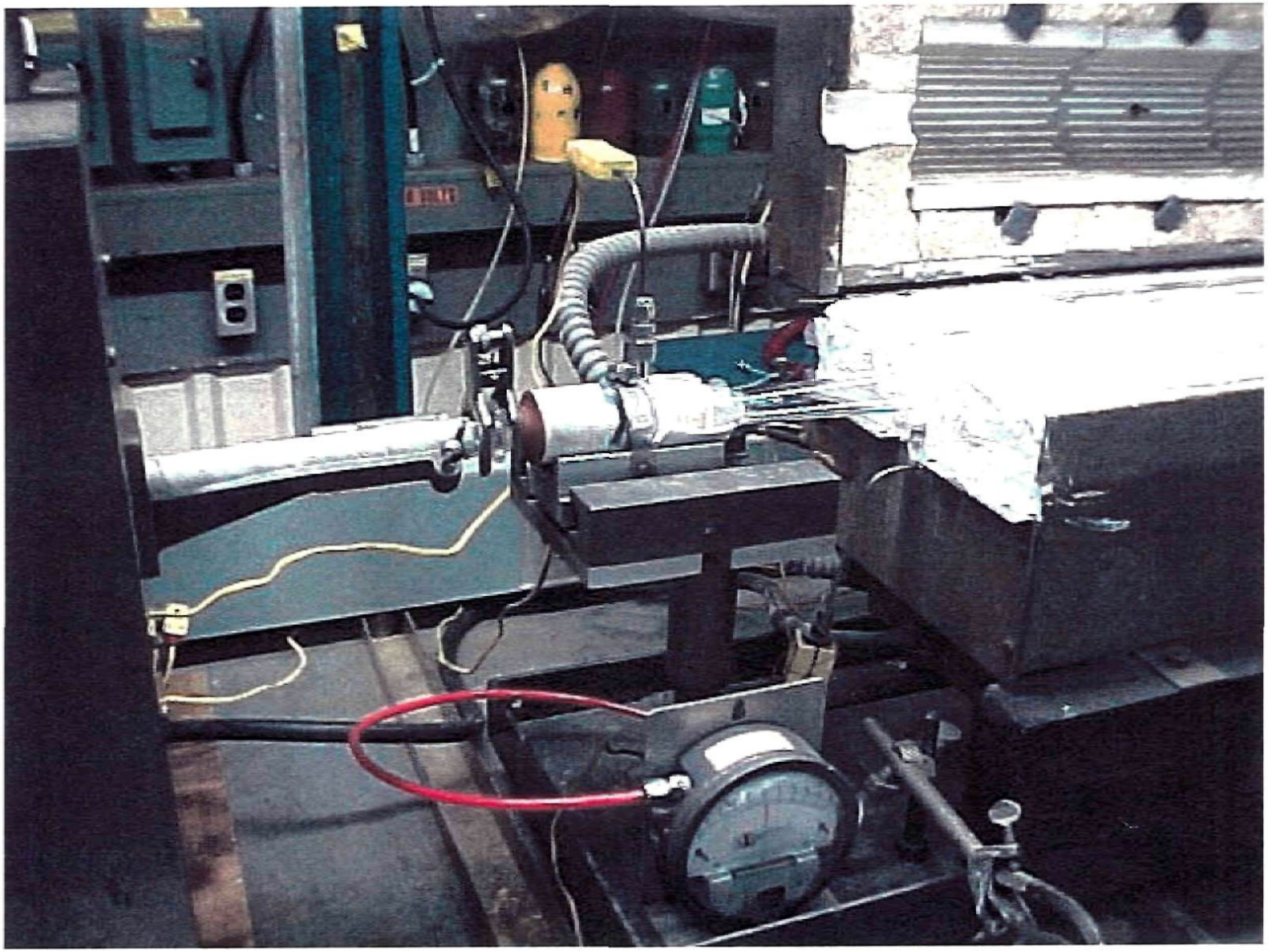
A13 – Mill Street Treated Soil (900 °F)



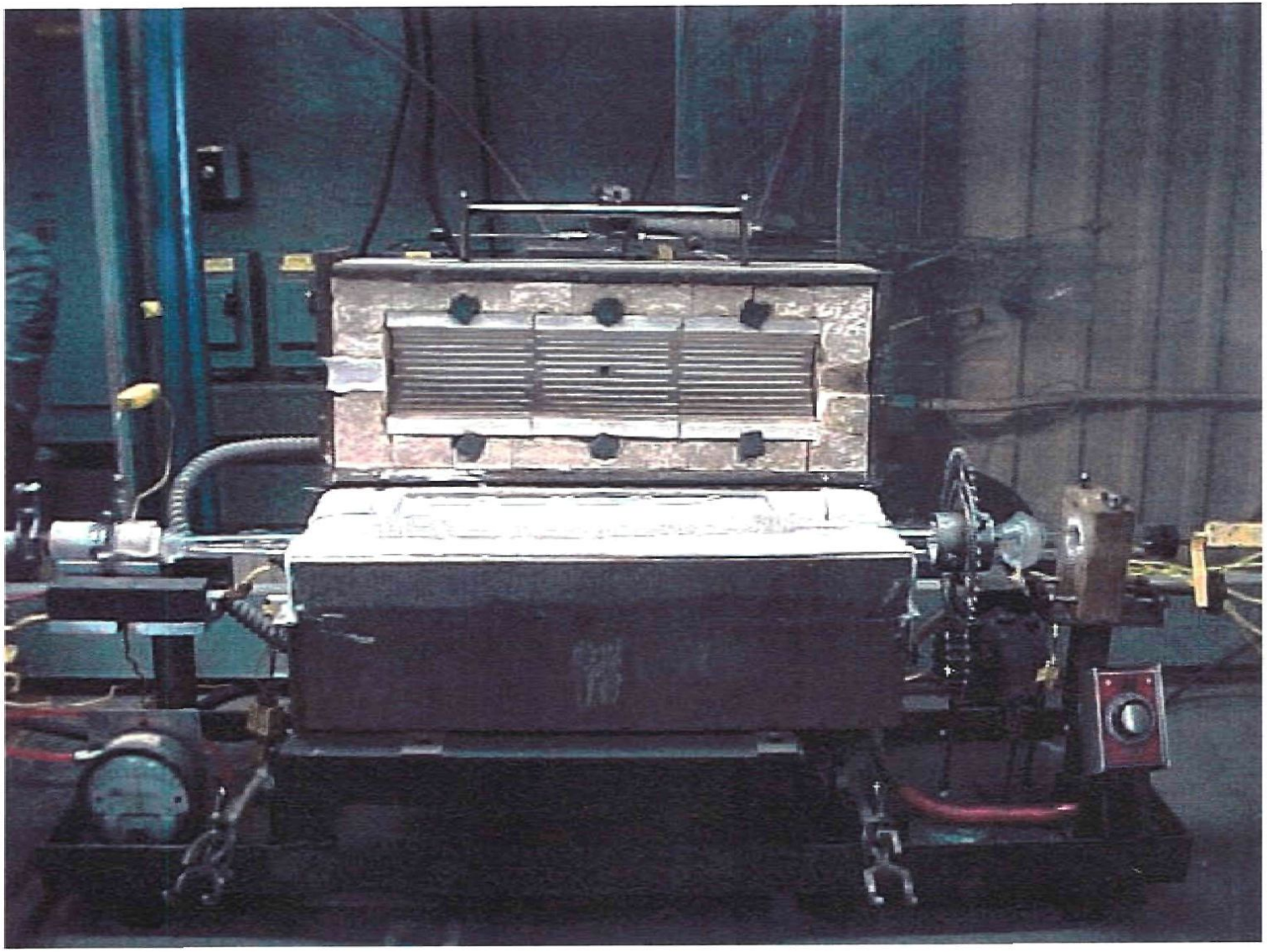
A14 - Quartz Kiln



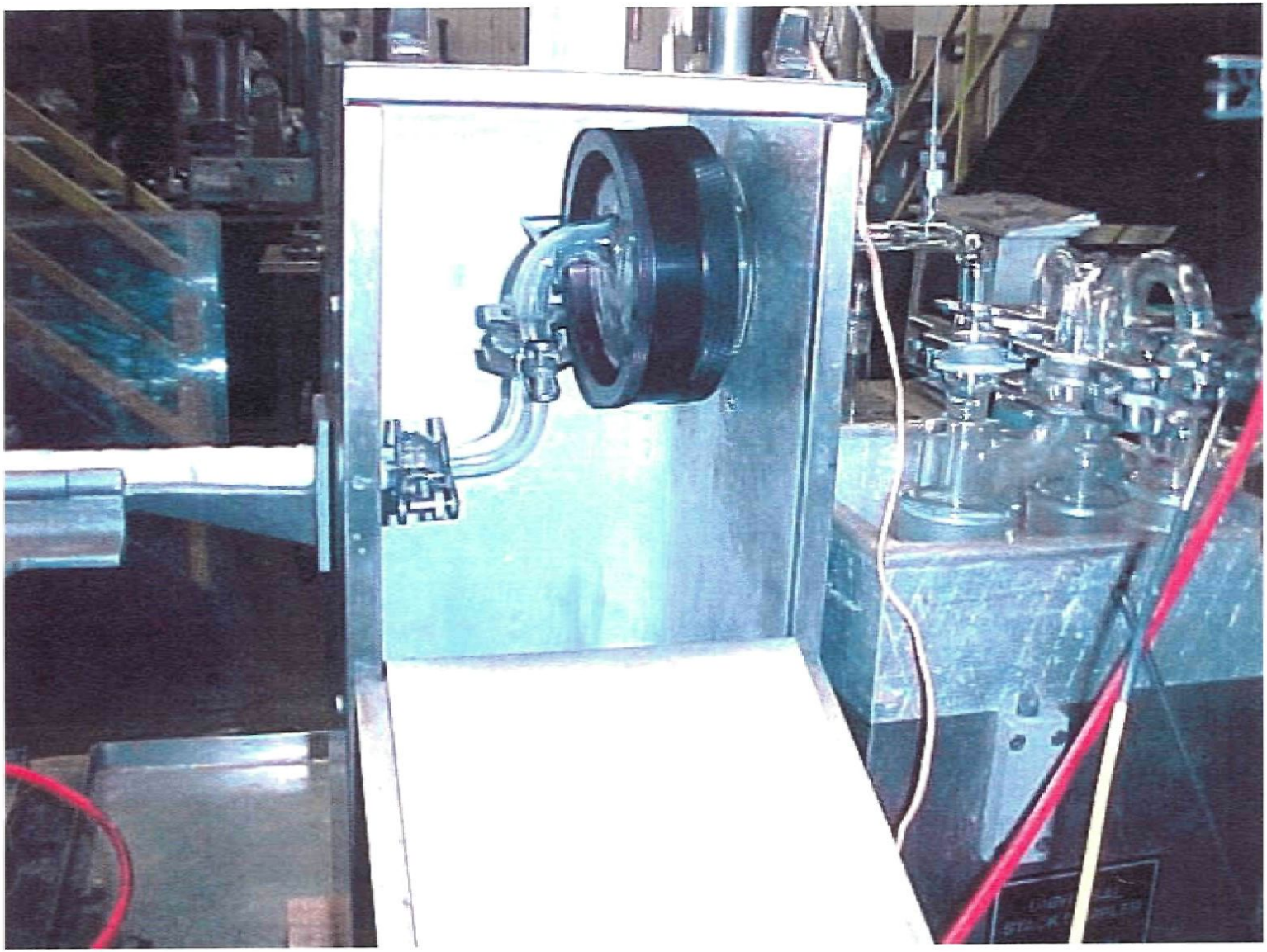
A15 - Kiln Inlet



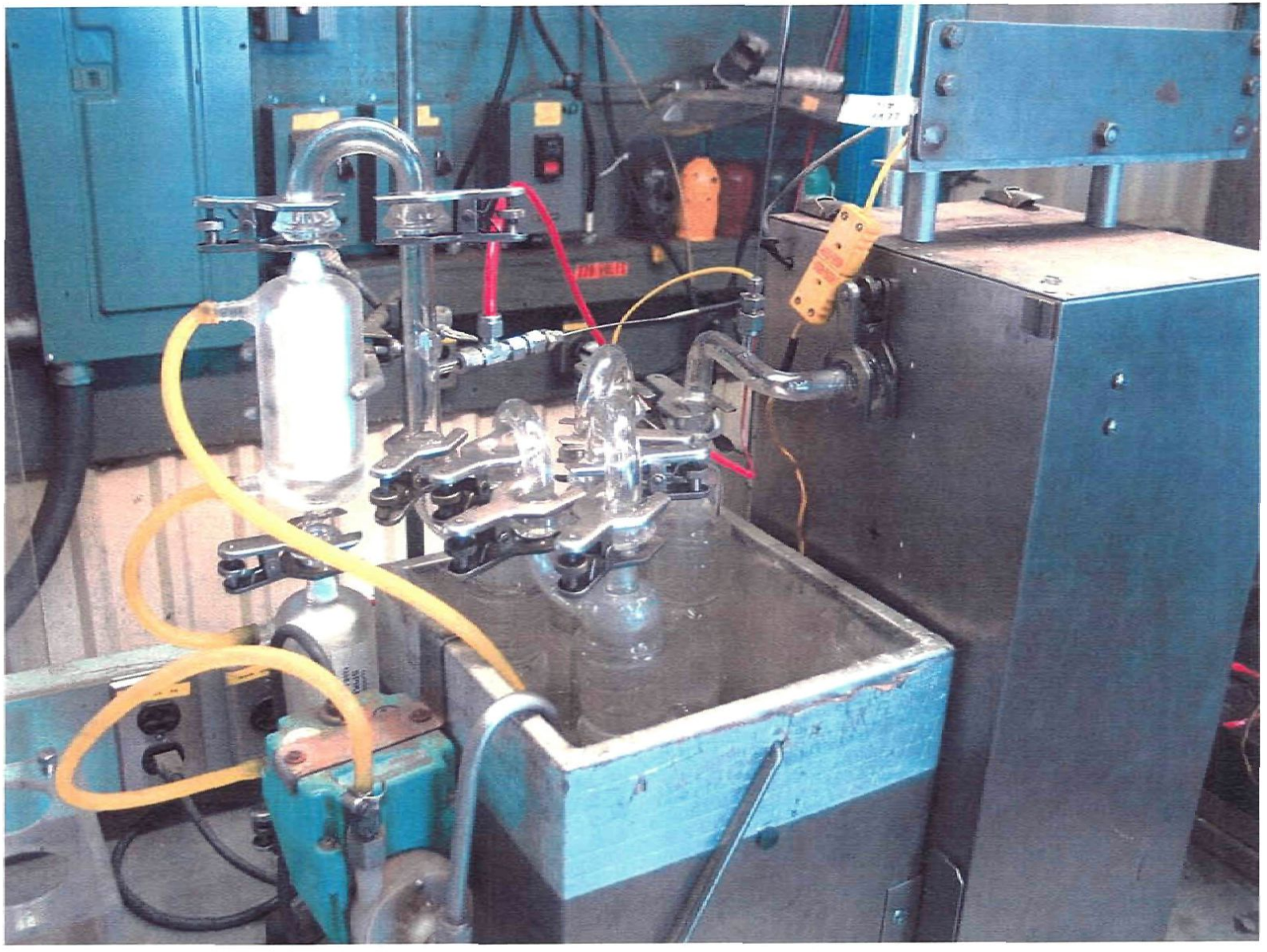
A16 - Kiln Outlet



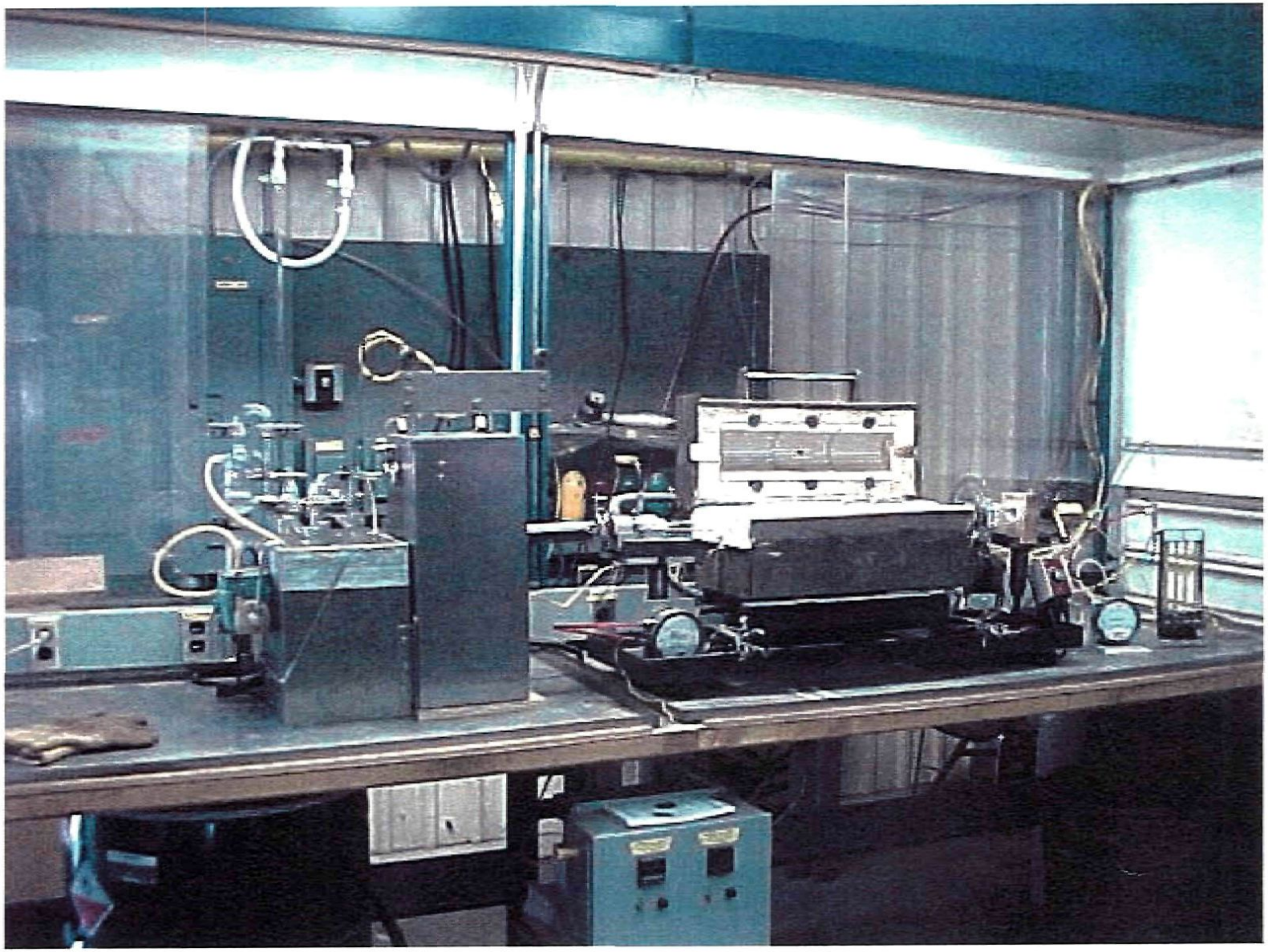
A17 - Overall Furnace View



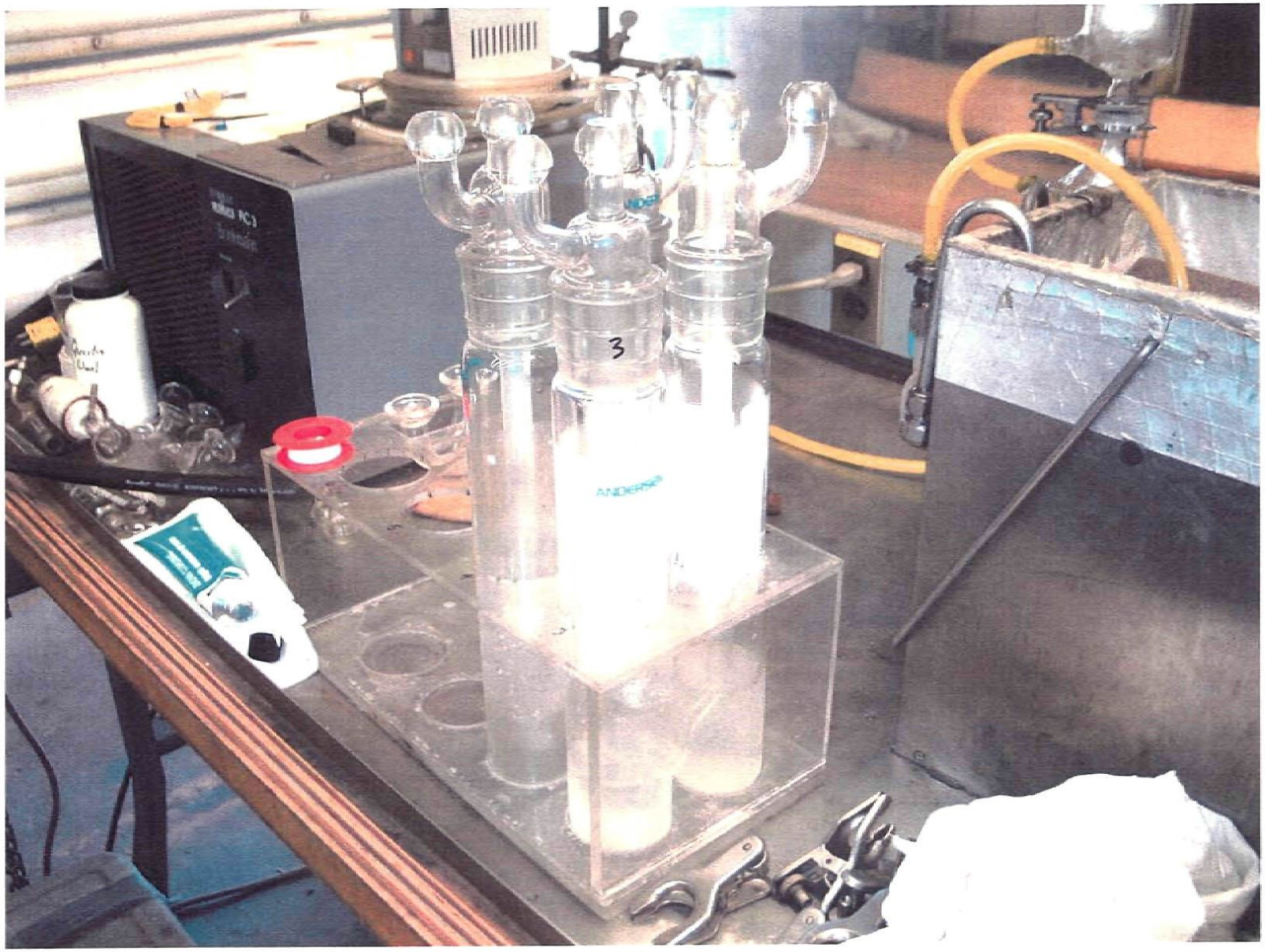
A18 - Hot Filter



A19 - Impingers and XAD Trap



A20 - Overall System



A21 - Used Impingers

Attachment B

Analytical Data

Test Pit Samples
Volatiles
Semivolatiles
PCB Comp.

SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A04-4848,A04-4849

STL Project#: NY3A9104.1
SDG#: 052101
Site Name: BB&L - Fletcher Paint
Task: Fletcher Paint - Test Pitting

Paul Sadler
Focus Environmental, Inc.
9050 Executive Pk Dr, SteA-202
Knoxville, TN 37923

CC: Dennis Capria

STL Buffalo

Candace L. Fox
Candace L. Fox
Project Manager

06/29/2004

STL Buffalo
Current Certifications

STATE	Program	Cert # / Lab ID
A2LA (ISO 17025)	SDWA, CWA, RCRA	0732-01
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Canada	GENERAL	SCC 1007-15/10B
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-4650
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390
Wyoming UST	UST	NA

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A4484804	ESTP-3	05/19/2004	08:10	05/21/2004	10:45
A4484904	ESTP-3	05/19/2004	08:10	05/21/2004	10:45
A4484805	ESTP-4	05/19/2004	11:10	05/21/2004	10:45
A4484905	ESTP-4	05/19/2004	11:10	05/21/2004	10:45
A4484806	ESTP-5	05/19/2004	12:00	05/21/2004	10:45
A4484906	ESTP-5	05/19/2004	12:00	05/21/2004	10:45
A4484801	MSTP-1	05/17/2004	11:05	05/21/2004	10:45
A4484901	MSTP-1	05/17/2004	11:05	05/21/2004	10:45
A4484802	MSTP-2	05/17/2004	13:30	05/21/2004	10:45
A4484902	MSTP-2	05/17/2004	13:30	05/21/2004	10:45
A4484803	MSTP-3	05/17/2004	14:15	05/21/2004	10:45
A4484903	MSTP-3	05/17/2004	14:15	05/21/2004	10:45
A4484807	TRIP BLANK	05/17/2004		05/21/2004	10:45

METHODS SUMMARY

Job#: A04-4848,A04-4849

STL Project#: NY3A9104.1
SDG#: 052101
Site Name: BB&L - Fletcher Paint

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE	SW8463 8260/5ML
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260MEOH
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
Method 1668A PCb Congeners	SW8463 1668A

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A04-4848,A04-4849

STL Project#: NY3A9104.1
SDG#: 052101
Site Name: BB&L - Fletcher Paint

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-4848
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.
A04-4849
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The TRIP BLANK was preserved to a PH less than 2.

Initial calibration standard curve A4I0000455-1 exhibited the %RSD of the compound 1,2,4-Trichlorobenzene as greater than 15%. Linear regression was used to calibrate this compound when detected.

All soil sample were prepared in the field and were analyzed using medium level techniques. Samples ESTP-5, MSTP-2 and MSTP-3 required a secondary dilution.

The analytes Acetone and 1,1,2-Trichloro-1,2,2-Trifluoroethane had a Percent Difference greater than 20% in the Continuing Calibration Verification A4C0001942-1. Since these analytes were biased high in the continuing calibration verification and were not detected in the associated samples the data was not effected. As a result no corrective action was taken.

The analyte Methyl Acetate had a Percent Difference greater than 20% in the Continuing Calibration Verification A4C0001975-1. Since this analyte was biased high in the continuing calibration verification and was not detected above the contract required detection limits the data was not effected. As a result no corrective action was taken.

GC/MS Semivolatile Data

The recovery of internal standard Phenanthrene-D10 was above method defined quality control limits in the sample MSTP-2 due to matrix interference. The sample was re-injected at a dilution of 20X with similar results confirming matrix interference. Both sets of data will be reported.

The recovery of surrogate compound 2,4,6-Tribromophenol was below client requested quality control limits in the sample MSTP-2 due to matrix interference. The sample was re-injected at a dilution of 20X with similar results confirming matrix interference. Both sets of data will be reported.

The recovery of surrogate 2,4,6-Tribromophenol was below client requested control limits for sample MSTP-3 DL. Based on US EPA CLP National Functional Guidelines for Data Review, one surrogate per fraction (AP/BN) is allowed to exceed quality control limits.

GC Extractable Data

PCB Congeners were subcontracted to STL Sacramento. The complete subcontract report is included in this report as Appendix A. Comments pertaining to PCB Congeners may be found within the comment summary of the subcontract report.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

_____

Candace L. Fox
Project Manager

_____

Date

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
MSTP-1	A4484801	8270	10.00	012
MSTP-2	A4484802	8270	10.00	012
MSTP-2 DL	A4484802DL	8260MEOH	5.00	008
MSTP-2 RI	A4484802RI	8270	20.00	005
MSTP-3	A4484803	8260MEOH	10.00	008
MSTP-3	A4484803	8270	10.00	008
MSTP-3 DL	A4484803DL	8260MEOH	20.00	008
ESTP-3	A4484804	8270	5.00	012
ESTP-4	A4484805	8270	10.00	012
ESTP-5	A4484806	8270	5.00	012
ESTP-5 DL	A4484806DL	8260MEOH	5.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected at or above the reporting limit.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the associated blank, as well as in the sample.

E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D This flag identifies all compounds identified in an analysis at the secondary dilution factor.

N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.

P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".

A This flag indicates that a TIC is a suspected aldol-condensation product.

1 Indicates coelution.

* Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected at or above the reporting limit.

J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

N Indicates spike sample recovery is not within the quality control limits.

K Indicates the post digestion spike recovery is not within the quality control limits.

S Indicates value determined by the Method of Standard Addition.

M Indicates duplicate injection results exceeded quality control limits.

W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

E Indicates a value estimated or not reported due to the presence of interferences.

H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.

* Indicates analysis is not within the quality control limits.

+ Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Date: 06/29/2004
Time: 10:49:07

Test Pit Soil VOC

BB&L - Fletcher Paint
Fletcher Paint - Test Pitting
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

		Elm Street #3		Elm Street #4		Elm Street #5		Elm Street #5 Dilution	
Client ID		ESTP-3		ESTP-4		ESTP-5		ESTP-5 DL	
Job No	Lab ID	A04-4848	A4484804	A04-4848	A4484805	A04-4848	A4484806	A04-4848	A4484806DL
Sample Date		05/19/2004		05/19/2004		05/19/2004		05/19/2004	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	2100	ND	2000	ND	2100	ND	10000
Benzene	UG/KG	ND	700	ND	660	130 J	700	ND	3500
Bromodichloromethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
Bromoform	UG/KG	ND	700	ND	660	ND	700	ND	3500
Bromomethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
2-Butanone	UG/KG	ND	700	ND	660	ND	700	ND	3500
Carbon Disulfide	UG/KG	ND	700	ND	660	ND	700	ND	3500
Carbon Tetrachloride	UG/KG	ND	700	ND	660	ND	700	ND	3500
Chlorobenzene	UG/KG	ND	700	ND	660	ND	700	ND	3500
Chloroethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
Chloroform	UG/KG	ND	700	ND	660	ND	700	ND	3500
Chloromethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
Cyclohexane	UG/KG	ND	700	ND	660	ND	700	ND	3500
1,2-Dibromoethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
Dibromochloromethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
1,2-Dibromo-3-chloropropane	UG/KG	ND	700	ND	660	ND	700	ND	3500
1,2-Dichlorobenzene	UG/KG	ND	700	ND	660	ND	700	ND	3500
1,3-Dichlorobenzene	UG/KG	ND	700	ND	660	ND	700	ND	3500
1,4-Dichlorobenzene	UG/KG	ND	700	ND	660	ND	700	ND	3500
Dichlorodifluoromethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
1,1-Dichloroethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
1,2-Dichloroethane	UG/KG	ND	700	ND	660	2500	700	2500 DJ	3500
1,1-Dichloroethene	UG/KG	ND	700	ND	660	100 J	700	ND	3500
cis-1,2-Dichloroethene	UG/KG	ND	700	ND	660	ND	700	ND	3500
trans-1,2-Dichloroethene	UG/KG	ND	700	ND	660	ND	700	ND	3500
1,2-Dichloropropane	UG/KG	ND	700	ND	660	ND	700	ND	3500
cis-1,3-Dichloropropene	UG/KG	ND	700	ND	660	ND	700	ND	3500
trans-1,3-Dichloropropene	UG/KG	ND	700	ND	660	ND	700	ND	3500
Ethylbenzene	UG/KG	ND	700	ND	660	ND	700	ND	3500
2-Hexanone	UG/KG	ND	700	ND	660	ND	700	ND	3500
Isopropylbenzene	UG/KG	ND	700	ND	660	ND	700	ND	3500
Methyl acetate	UG/KG	ND	700	110 J	660	ND	700	ND	3500
Methylcyclohexane	UG/KG	ND	700	ND	660	ND	700	ND	3500
Methylene chloride	UG/KG	ND	700	ND	660	100 J	700	ND	3500
4-Methyl-2-pentanone	UG/KG	ND	700	ND	660	ND	700	ND	3500
Methyl tert butyl ether	UG/KG	ND	700	ND	660	ND	700	ND	3500
Styrene	UG/KG	ND	700	ND	660	ND	700	ND	3500
1,1,2,2-Tetrachloroethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
Tetrachloroethene	UG/KG	ND	700	ND	660	ND	700	ND	3500
Toluene	UG/KG	ND	700	ND	660	160 J	700	ND	3500
1,2,4-Trichlorobenzene	UG/KG	120 J	700	690	660	130 J	700	740 DJ	3500
1,1,1-Trichloroethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
1,1,2-Trichloroethane	UG/KG	ND	700	ND	660	ND	700	ND	3500

10\114

NA = Not Appl' ble ND = Not Detected

STL Buff

Date: 06/29
Time: 10:49:0

BB&L - cher Paint
Fletcher Pa - Test Pitting
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	ESTP-3 A04-4848 05/19/2004	A4484804	ESTP-4 A04-4848 05/19/2004	A4484805	ESTP-5 A04-4848 05/19/2004	A4484806	ESTP-5 DL A04-4848 05/19/2004	A4484806DL
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	700	ND	660	ND	700	ND	3500
Trichlorofluoromethane	UG/KG	ND	700	ND	660	ND	700	ND	3500
Trichloroethene	UG/KG	ND	700	ND	660	18000 E	700	19000 D	3500
Vinyl chloride	UG/KG	ND	700	ND	660	ND	700	ND	3500
Total Xylenes	UG/KG	ND	700	ND	660	190 J	700	ND	3500
IS/SURROGATE(S)									
Chlorobenzene-D5	%	94	50-200	85	50-200	94	50-200	105	50-200
1,4-Difluorobenzene	%	105	50-200	86	50-200	104	50-200	96	50-200
1,4-Dichlorobenzene-D4	%	84	50-200	74	50-200	87	50-200	97	50-200
Toluene-D8	%	96	10-190	98	10-190	98	10-190	92	10-190
p-Bromofluorobenzene	%	92	10-190	91	10-190	95	10-190	95	10-190
1,2-Dichloroethane-D4	%	99	10-190	104	10-190	101	10-190	102	10-190

11\114

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 06/29/2004
Time: 10:49:07

Test Pit Soil VOC

BB&L - Fletcher Paint
Fletcher Paint - Test Pitting
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

		Mill Street #1		Mill Street #2		Mill Street #2 Dilution		Mill Street #3	
Client ID		MSTP-1		MSTP-2		MSTP-2 DL		MSTP-3	
Job No / Lab ID		A04-4848	A4484801	A04-4848	A4484802	A04-4848	A4484802DL	A04-4848	A4484803
Sample Date		05/17/2004		05/17/2004		05/17/2004		05/17/2004	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	2000	ND	2200	ND	11000	ND	21000
Benzene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Bromodichloromethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Bromoform	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Bromomethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
2-Butanone	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Carbon Disulfide	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Carbon Tetrachloride	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Chlorobenzene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Chloroethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Chloroform	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Chloromethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Cyclohexane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
1,2-Dibromoethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Dibromochloromethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
1,2-Dibromo-3-chloropropane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
1,2-Dichlorobenzene	UG/KG	ND	670	150 J	750	ND	3700	ND	7000
1,3-Dichlorobenzene	UG/KG	ND	670	230 J	750	ND	3700	ND	7000
1,4-Dichlorobenzene	UG/KG	ND	670	140 J	750	ND	3700	1900 J	7000
Dichlorodifluoromethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
1,1-Dichloroethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
1,2-Dichloroethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
1,1-Dichloroethene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
cis-1,2-Dichloroethene	UG/KG	ND	670	550 J	750	450 DJ	3700	13000	7000
trans-1,2-Dichloroethene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
1,2-Dichloropropane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
cis-1,3-Dichloropropene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
trans-1,3-Dichloropropene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Ethylbenzene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
2-Hexanone	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Isopropylbenzene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Methyl acetate	UG/KG	82 J	670	ND	750	ND	3700	ND	7000
Methylcyclohexane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Methylene chloride	UG/KG	ND	670	ND	750	ND	3700	ND	7000
4-Methyl-2-pentanone	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Methyl tert butyl ether	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Styrene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
1,1,2,2-Tetrachloroethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Tetrachloroethene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Toluene	UG/KG	ND	670	ND	750	ND	3700	ND	7000
1,2,4-Trichlorobenzene	UG/KG	140 J	670	13000 E	750	13000 D	3700	96000 E	7000
1,1,1-Trichloroethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
1,1,2-Trichloroethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000

NA = Not Appl[illegible]ble ND = Not Detected

STL Buff[illegible]

12\114

Date: 06/29
Time: 10:49:

BB&L - :her Paint
Fletcher P: - Test Pitting
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		MSTP-1		MSTP-2		MSTP-2 DL		MSTP-3	
Job No	Lab ID	A04-4848	A4484801	A04-4848	A4484802	A04-4848	A4484802DL	A04-4848	A4484803
Sample Date		05/17/2004		05/17/2004		05/17/2004		05/17/2004	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Trichlorofluoromethane	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Trichloroethene	UG/KG	480 J	670	21000 E	750	22000 D	3700	12000	7000
Vinyl chloride	UG/KG	ND	670	ND	750	ND	3700	ND	7000
Total Xylenes	UG/KG	ND	670	ND	750	ND	3700	ND	7000
IS/SURROGATE(S)									
Chlorobenzene-D5	%	90	50-200	95	50-200	80	50-200	90	50-200
1,4-Difluorobenzene	%	102	50-200	105	50-200	80	50-200	102	50-200
1,4-Dichlorobenzene-D4	%	82	50-200	90	50-200	75	50-200	84	50-200
Toluene-D8	%	102	10-190	98	10-190	101	10-190	100	10-190
p-Bromofluorobenzene	%	97	10-190	95	10-190	93	10-190	95	10-190
1,2-Dichloroethane-D4	%	104	10-190	100	10-190	109	10-190	105	10-190

13\114

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 06/29/2004
Time: 10:49:07

BB&L - Fletcher Paint
Fletcher Paint - Test Pitting
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Mill Street #3

Client ID		MSTP-3 DL Dilution							
Job No / Lab ID		A04-4848	A4484803DL						
Sample Date		05/17/2004							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	42000	NA		NA		NA	
Benzene	UG/KG	ND	14000	NA		NA		NA	
Bromodichloromethane	UG/KG	ND	14000	NA		NA		NA	
Bromoform	UG/KG	ND	14000	NA		NA		NA	
Bromomethane	UG/KG	ND	14000	NA		NA		NA	
2-Butanone	UG/KG	ND	14000	NA		NA		NA	
Carbon Disulfide	UG/KG	ND	14000	NA		NA		NA	
Carbon Tetrachloride	UG/KG	ND	14000	NA		NA		NA	
Chlorobenzene	UG/KG	ND	14000	NA		NA		NA	
Chloroethane	UG/KG	ND	14000	NA		NA		NA	
Chloroform	UG/KG	ND	14000	NA		NA		NA	
Chloromethane	UG/KG	ND	14000	NA		NA		NA	
Cyclohexane	UG/KG	ND	14000	NA		NA		NA	
1,2-Dibromoethane	UG/KG	ND	14000	NA		NA		NA	
Dibromochloromethane	UG/KG	ND	14000	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	14000	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	14000	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	14000	NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	2000 DJ	14000	NA		NA		NA	
Dichlorodifluoromethane	UG/KG	ND	14000	NA		NA		NA	
1,1-Dichloroethane	UG/KG	ND	14000	NA		NA		NA	
1,2-Dichloroethane	UG/KG	ND	14000	NA		NA		NA	
1,1-Dichloroethene	UG/KG	ND	14000	NA		NA		NA	
cis-1,2-Dichloroethene	UG/KG	10000 DJ	14000	NA		NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	14000	NA		NA		NA	
1,2-Dichloropropane	UG/KG	ND	14000	NA		NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	14000	NA		NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	14000	NA		NA		NA	
Ethylbenzene	UG/KG	ND	14000	NA		NA		NA	
2-Hexanone	UG/KG	ND	14000	NA		NA		NA	
Isopropylbenzene	UG/KG	ND	14000	NA		NA		NA	
Methyl acetate	UG/KG	ND	14000	NA		NA		NA	
Methylcyclohexane	UG/KG	ND	14000	NA		NA		NA	
Methylene chloride	UG/KG	ND	14000	NA		NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	14000	NA		NA		NA	
Methyl tert butyl ether	UG/KG	ND	14000	NA		NA		NA	
Styrene	UG/KG	ND	14000	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	14000	NA		NA		NA	
Tetrachloroethene	UG/KG	ND	14000	NA		NA		NA	
Toluene	UG/KG	ND	14000	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	94000 D	14000	NA		NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	14000	NA		NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	14000	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buff

14\114

Date: 06/29
Time: 10:49

BB&L - cher Paint
Fletcher P - Test Pitting
METHOD 8260 - VOLATILE ORGANICS

Rept: AN0326

Client ID		MSTP-3 DL							
Job No	Lab ID	A04-4848	A4484803DL						
Sample Date		05/17/2004							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	14000	NA		NA		NA	
Trichlorofluoromethane	UG/KG	ND	14000	NA		NA		NA	
Trichloroethene	UG/KG	11000 DJ	14000	NA		NA		NA	
Vinyl chloride	UG/KG	ND	14000	NA		NA		NA	
Total Xylenes	UG/KG	ND	14000	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	82	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	83	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	75	50-200	NA		NA		NA	
Toluene-D8	%	99	10-190	NA		NA		NA	
p-Bromofluorobenzene	%	92	10-190	NA		NA		NA	
1,2-Dichloroethane-D4	%	108	10-190	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

15\114

Date: 06/29/2004
Time: 10:49:22

Test Pit Soil SVOC

BB&L - Fletcher Paint
Fletcher Paint - Test Pitting
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

		Elm Street #3		Elm Street #4		Elm Street #5		Mill Street #1	
Client ID		ESTP-3		ESTP-4		ESTP-5		MSTP-1	
Job No / Lab ID		A04-4848	A4484804	A04-4848	A4484805	A04-4848	A4484806	A04-4848	A4484801
Sample Date		05/19/2004		05/19/2004		05/19/2004		05/17/2004	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Acenaphthylene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Acetophenone	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Anthracene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Atrazine	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Benzaldehyde	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Benzo(a)anthracene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Benzo(b)fluoranthene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Benzo(k)fluoranthene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Benzo(ghi)perylene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Benzo(a)pyrene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Biphenyl	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Bis(2-chloroethoxy) methane	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Bis(2-chloroethyl) ether	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Bis(2-ethylhexyl) phthalate	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
4-Bromophenyl phenyl ether	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Butyl benzyl phthalate	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Caprolactam	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Carbazole	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
4-Chloroaniline	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
4-Chloro-3-methylphenol	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2-Chloronaphthalene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2-Chlorophenol	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
4-Chlorophenyl phenyl ether	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Chrysene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Dibenzo(a,h)anthracene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Dibenzofuran	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Di-n-butyl phthalate	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
3,3'-Dichlorobenzidine	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2,4-Dichlorophenol	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Diethyl phthalate	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2,4-Dimethylphenol	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Dimethyl phthalate	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
4,6-Dinitro-2-methylphenol	UG/KG	ND	4700	ND	8800	ND	4600	ND	9100
2,4-Dinitrophenol	UG/KG	ND	8300	ND	16000	ND	8100	ND	16000
2,4-Dinitrotoluene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2,6-Dinitrotoluene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Di-n-octyl phthalate	UG/KG	ND	2500	ND	4700	ND	2500	ND	4900
Fluoranthene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Fluorene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Hexachlorobenzene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Hexachlorobutadiene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600

16\114

NA = Not Appl· ·ble ND = Not Detected

STL Buf'

Date: 06/29
Time: 10:49:

BB&L - her Paint
Fletcher Pa - Test Pitting
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	ESTP-3 A04-4848 05/19/2004	A4484804	ESTP-4 A04-4848 05/19/2004	A4484805	ESTP-5 A04-4848 05/19/2004	A4484806	MSTP-1 A04-4848 05/17/2004	A4484801
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Hexachlorocyclopentadiene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Hexachloroethane	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Indeno(1,2,3-cd)pyrene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Isophorone	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2-Methylnaphthalene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2-Methylphenol	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
4-Methylphenol	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Naphthalene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2-Nitroaniline	UG/KG	ND	4700	ND	8800	ND	4600	ND	9100
3-Nitroaniline	UG/KG	ND	4700	ND	8800	ND	4600	ND	9100
4-Nitroaniline	UG/KG	ND	4700	ND	8800	ND	4600	ND	9100
Nitrobenzene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2-Nitrophenol	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
4-Nitrophenol	UG/KG	ND	4700	ND	8800	ND	4600	ND	9100
N-nitrosodiphenylamine	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
N-Nitroso-Di-n-propylamine	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Pentachlorophenol	UG/KG	ND	4700	ND	8800	ND	4600	ND	9100
Phenanthrene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Phenol	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
Pyrene	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
2,4,5-Trichlorophenol	UG/KG	ND	4700	ND	8800	ND	4600	ND	9100
2,4,6-Trichlorophenol	UG/KG	ND	1900	ND	3500	ND	1800	ND	3600
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	90	50-200	94	50-200	95	50-200	86	50-200
Naphthalene-D8	%	92	50-200	96	50-200	99	50-200	91	50-200
Acenaphthene-D10	%	91	50-200	85	50-200	96	50-200	88	50-200
Phenanthrene-D10	%	158	50-200	95	50-200	100	50-200	88	50-200
Chrysene-D12	%	86	50-200	91	50-200	92	50-200	83	50-200
Perylene-D12	%	107	50-200	115	50-200	115	50-200	99	50-200
Nitrobenzene-D5	%	72	30-127	76	30-127	77	30-127	82	30-127
2-Fluorobiphenyl	%	78	36-138	98	36-138	85	36-138	90	36-138
p-Terphenyl-d14	%	73	41-167	83	41-167	85	41-167	96	41-167
Phenol-D5	%	70	34-120	78	34-120	79	34-120	85	34-120
2-Fluorophenol	%	59	26-120	64	26-120	72	26-120	76	26-120
2,4,6-Tribromophenol	%	46	42-140	76	42-140	90	42-140	92	42-140

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 06/29/2004
Time: 10:49:22

Test Pit Soil SVOC

BB&L - Fletcher Paint
Fletcher Paint - Test Pitting
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

		Mill Street #2		Mill Street #2 Replicate Inj		Mill Street #3			
Client ID		MSTP-2		MSTP-2 RI		MSTP-3			
Job No	Lab ID	A04-4848	A4484802	A04-4848	A4484802RI	A04-4848	A4484803		
Sample Date		05/17/2004		05/17/2004		05/17/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Acenaphthylene	UG/KG	ND	3800	ND	7700	1300 J	3600	NA	
Acetophenone	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Anthracene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Atrazine	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Benzaldehyde	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Benzo(a)anthracene	UG/KG	ND	3800	ND	7700	3000 J	3600	NA	
Benzo(b)fluoranthene	UG/KG	ND	3800	ND	7700	2400 J	3600	NA	
Benzo(k)fluoranthene	UG/KG	ND	3800	ND	7700	2400 J	3600	NA	
Benzo(ghi)perylene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Benzo(a)pyrene	UG/KG	ND	3800	ND	7700	3000 J	3600	NA	
Biphenyl	UG/KG	ND	3800	ND	7700	4200	3600	NA	
Bis(2-chloroethoxy) methane	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Bis(2-chloroethyl) ether	UG/KG	ND	3800	ND	7700	ND	3600	NA	
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Bis(2-ethylhexyl) phthalate	UG/KG	ND	3800	ND	7700	ND	3600	NA	
4-Bromophenyl phenyl ether	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Butyl benzyl phthalate	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Caprolactam	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Carbazole	UG/KG	ND	3800	ND	7700	ND	3600	NA	
4-Chloroaniline	UG/KG	ND	3800	ND	7700	ND	3600	NA	
4-Chloro-3-methylphenol	UG/KG	ND	3800	ND	7700	ND	3600	NA	
2-Chloronaphthalene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
2-Chlorophenol	UG/KG	ND	3800	ND	7700	ND	3600	NA	
4-Chlorophenyl phenyl ether	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Chrysene	UG/KG	ND	3800	ND	7700	2700 J	3600	NA	
Dibenzo(a,h)anthracene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Dibenzofuran	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Di-n-butyl phthalate	UG/KG	ND	3800	ND	7700	ND	3600	NA	
3,3'-Dichlorobenzidine	UG/KG	ND	3800	ND	7700	ND	3600	NA	
2,4-Dichlorophenol	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Diethyl phthalate	UG/KG	ND	3800	ND	7700	ND	3600	NA	
2,4-Dimethylphenol	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Dimethyl phthalate	UG/KG	ND	3800	ND	7700	ND	3600	NA	
4,6-Dinitro-2-methylphenol	UG/KG	ND	9700	ND	19000	ND	9200	NA	
2,4-Dinitrophenol	UG/KG	ND	17000	ND	34000	ND	16000	NA	
2,4-Dinitrotoluene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
2,6-Dinitrotoluene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Di-n-octyl phthalate	UG/KG	ND	5200	ND	10000	ND	4900	NA	
Fluoranthene	UG/KG	ND	3800	ND	7700	5200	3600	NA	
Fluorene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Hexachlorobenzene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Hexachlorobutadiene	UG/KG	ND	3800	ND	7700	ND	3600	NA	

NA = Not Applicable ND = Not Detected

STL Buff

181114

Date: 06/29
Time: 10:49.

BB&L - cher Paint
Fletcher P. - Test Pitting
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	MSTP-2 A04-4848 05/17/2004	A4484802	MSTP-2 RI A04-4848 05/17/2004	A4484802RI	MSTP-3 A04-4848 05/17/2004	A4484803		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Hexachlorocyclopentadiene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Hexachloroethane	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Isophorone	UG/KG	ND	3800	ND	7700	ND	3600	NA	
2-Methylnaphthalene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
2-Methylphenol	UG/KG	ND	3800	ND	7700	ND	3600	NA	
4-Methylphenol	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Naphthalene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
2-Nitroaniline	UG/KG	ND	9700	ND	19000	ND	9200	NA	
3-Nitroaniline	UG/KG	ND	9700	ND	19000	ND	9200	NA	
4-Nitroaniline	UG/KG	ND	9700	ND	19000	ND	9200	NA	
Nitrobenzene	UG/KG	ND	3800	ND	7700	ND	3600	NA	
2-Nitrophenol	UG/KG	ND	3800	ND	7700	ND	3600	NA	
4-Nitrophenol	UG/KG	ND	9700	ND	19000	ND	9200	NA	
N-nitrosodiphenylamine	UG/KG	ND	3800	ND	7700	ND	3600	NA	
N-Nitroso-Di-n-propylamine	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Pentachlorophenol	UG/KG	ND	9700	ND	19000	ND	9200	NA	
Phenanthrene	UG/KG	ND	3800	ND	7700	1300 J	3600	NA	
Phenol	UG/KG	ND	3800	ND	7700	ND	3600	NA	
Pyrene	UG/KG	1500 J	3800	ND	7700	4300	3600	NA	
2,4,5-Trichlorophenol	UG/KG	ND	9700	ND	19000	ND	9200	NA	
2,4,6-Trichlorophenol	UG/KG	ND	3800	ND	7700	ND	3600	NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	86	50-200	73	50-200	91	50-200	NA	
Naphthalene-D8	%	93	50-200	78	50-200	95	50-200	NA	
Acenaphthene-D10	%	85	50-200	77	50-200	88	50-200	NA	
Phenanthrene-D10	%	394 *	50-200	226 *	50-200	85	50-200	NA	
Chrysene-D12	%	88	50-200	83	50-200	92	50-200	NA	
Perylene-D12	%	109	50-200	105	50-200	116	50-200	NA	
Nitrobenzene-D5	%	78	30-127	76	30-127	83	30-127	NA	
2-Fluorobiphenyl	%	95	36-138	100	36-138	99	36-138	NA	
p-Terphenyl-d14	%	84	41-167	94	41-167	90	41-167	NA	
Phenol-D5	%	75	34-120	81	34-120	78	34-120	NA	
2-Fluorophenol	%	66	26-120	69	26-120	66	26-120	NA	
2,4,6-Tribromophenol	%	19 *	42-140	31 *	42-140	93	42-140	NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

19\114

Appendix A

54\114

SEVERN TRENT STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

June 24, 2004

STL SACRAMENTO PROJECT NUMBER: G4E260275
PO/CONTRACT:

Candace Fox
STL Buffalo
10 Hazelwood Drive
Amherst, NY 14228

Dear Ms. Fox,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on May 25, 2004. These samples are associated with your Waste Management project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4362.

Sincerely,

Diana Brooks
Project Manager

A04 - 4849 3B&L rec'd 6/28

TABLE OF CONTENTS

STL SACRAMENTO PROJECT NUMBER G4E260275

Case Narrative

STL Sacramento Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

SOLID, 1668, PCBs, HRGC/HRMS
Samples: 1, 2, 3, 4, 5, 6
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

SOLID, D 2216-90, Moisture, Percent
Samples: 1, 2, 3, 4, 5, 6
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G4E260275

SOLID, 1668, PCBs, HRGC/HRMS

All samples required a complex dilution of 10,000X due to high analyte concentration. Several analytes required a subsequent 10X dilution (100,000X) of the complex dilution and will be qualified with a "D" flag for dilution.

The method blank and laboratory control sample (LCS) required complex dilution due to the high sample contamination. The LCS required a post extraction spike of the control analytes.

Several analytes has been "JA" flagged due to a matrix interference that is causing the ion ratio to be outside limits. The result has been qualified as "positively identified, but estimated quantitation" because the analyst believes the isomer to be present, but the quantitation is based on theoretical ratios. There is no adverse impact and no corrective action is necessary.

The PCB-77, PCB-81, and PCB-123 have elevated reporting limits due to significant contribution from fragmentation ions derived from isomers at higher chlorination levels. These elevated reporting limits are "G" flagged and may be considered maximum possible concentrations.

Sample -003 has PCB-20, PCB-21, PCB-28 and PCB-33 saturating the detector at the 100,000x dilution. The results for PCB-20, PCB-21, PCB-28 and PCB-33 in this sample should be considered an estimated value with a low bias.

Samples –001, -002, -003, -004 and –006 have PCB-77 positively identified and "JA" flagged due to contribution from a fragment of PCB-110.

There were no other anomalies associated with this project.

SEVERN TRENT STL

ACCREDITED IN ACCORDANCE WITH nelac

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon	CA 200005
Arizona	AZ0536	Pennsylvania	68-127
Arkansas	NA	South Carolina	87014001
California*	01119CA	Utah*	QUANI
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA 044	USACE	NA
New Jersey*	CA005	USDA Foreign Plant	37-82605
New York*	11666	USDA Foreign Soil	S-46613

*NELAP accredited. A more detailed parameter list is available upon request.

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary
G4E260275

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
GG41R	1	MSTP-1	5/17/04 11:05 AM	5/25/04 09:05 AM
GG41V	2	MSTP-2	5/17/04 01:30 PM	5/25/04 09:05 AM
GG41W	3	MSTP-3	5/17/04 02:15 PM	5/25/04 09:05 AM
GG41X	4	ESTP-3	5/17/04 08:10 AM	5/25/04 09:05 AM
GG411	5	ESTP-4	5/17/04 11:10 AM	5/25/04 09:05 AM
GG413	6	ESTP-5	5/17/04 12:00 PM	5/25/04 09:05 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

STL Buffalo
Internal Chain of Custody

59\114

Client: General Electric
Project: NY3A9104.1
Quote: NY02-011
SM #: 392

Turn Around Required: 10B

Purchase Order#: TBD

Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
MSTP-1	A4484901	SOIL	PCBS	1-4ozGW	05/17/2004 11:05
MSTP-2	A4484902	SOIL	PCBS	1-4ozGW	05/17/2004 13:30
MSTP-3	A4484903	SOIL	PCBS	1-4ozGW	05/17/2004 14:15
ESTP-3	A4484904	SOIL	PCBS	1-4ozGW	05/19/2004 08:10
ESTP-4	A4484905	SOIL	PCBS	1-4ozGW	05/19/2004 11:10
ESTP-5	A4484906	SOIL	PCBS	1-4ozGW	05/19/2004 12:00

Relinquished by STL Buffalo: Signature(s)	Date	Time	Received By STL - Sacramento: Signature(s)	Date	Time
(1)	05/24/2004	1430	(3)	5/25/2004	0950
(2)	/ /20		(4)	/ /20	

RECEIVED IN GOOD CONDITION
UNDER COC
MAY 25 2004
INI

SOLID, 1668, PCBs, HRGC/HRMS

STL BUFFALO

Client Sample ID: MSTP-1

Trace Level Organic Compounds

Lot-Sample #...: C4E260275-001 Work Order #...: GG41R1AC Matrix.....: SOLID
Date Sampled...: 05/17/04 Date Received..: 05/25/04
Prep Date.....: 05/28/04 Analysis Date..: 06/04/04
Prep Batch #...: 4149235
Dilution Factor: 10000

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 2 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 3 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 4 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 5 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 6 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 7 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 8 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 9 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 10 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 11 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 12 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 13 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 15 (BZ)	260000	260000	pg/g	EPA-14 1668
PCB 16 (BZ)	6300000 C	260000	pg/g	EPA-14 1668
PCB 17 (BZ)	330000	260000	pg/g	EPA-14 1668
PCB 18 (BZ)	300000	260000	pg/g	EPA-14 1668
PCB 19 (BZ)	1600000	260000	pg/g	EPA-14 1668
PCB 20 (BZ)	1400000 C	260000	pg/g	EPA-14 1668
PCB 21 (BZ)	1400000 C	260000	pg/g	EPA-14 1668
PCB 22 (BZ)	8000000	260000	pg/g	EPA-14 1668
PCB 23 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 24 (BZ)	1600000 C	260000	pg/g	EPA-14 1668
PCB 25 (BZ)	1300000	260000	pg/g	EPA-14 1668
PCB 26 (BZ)	2100000	260000	pg/g	EPA-14 1668
PCB 27 (BZ)	1600000 C	260000	pg/g	EPA-14 1668
PCB 28 (BZ)	19000000	260000	pg/g	EPA-14 1668
PCB 29 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 30 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 31 (BZ)	8600000	260000	pg/g	EPA-14 1668
PCB 32 (BZ)	6300000 C	260000	pg/g	EPA-14 1668
PCB 33 (BZ)	1400000 C	260000	pg/g	EPA-14 1668
PCB 34 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 35 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 36 (BZ)	280000	260000	pg/g	EPA-14 1668
PCB 37 (BZ)	1800000	260000	pg/g	EPA-14 1668
PCB 38 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 39 (BZ)	ND	260000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-1

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-001 Work Order #...: GG41R1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	4200000	260000	pg/g	EPA-14 1668
PCB 41 (BZ)	19000000 C	260000	pg/g	EPA-14 1668
PCB 42 (BZ)	9200000	260000	pg/g	EPA-14 1668
PCB 43 (BZ)	19000000 C	260000	pg/g	EPA-14 1668
PCB 44 (BZ)	19000000	260000	pg/g	EPA-14 1668
PCB 45 (BZ)	5800000	260000	pg/g	EPA-14 1668
PCB 46 (BZ)	2300000	260000	pg/g	EPA-14 1668
PCB 47 (BZ)	7300000 C	260000	pg/g	EPA-14 1668
PCB 48 (BZ)	7300000 C	260000	pg/g	EPA-14 1668
PCB 49 (BZ)	19000000 C	260000	pg/g	EPA-14 1668
PCB 50 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 51 (BZ)	1600000	260000	pg/g	EPA-14 1668
PCB 52 (BZ)	19000000 C	260000	pg/g	EPA-14 1668
PCB 53 (BZ)	4500000	260000	pg/g	EPA-14 1668
PCB 54 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 55 (BZ)	680000	260000	pg/g	EPA-14 1668
PCB 56 (BZ)	21000000 C	260000	pg/g	EPA-14 1668
PCB 57 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 58 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 59 (BZ)	2300000	260000	pg/g	EPA-14 1668
PCB 60 (BZ)	21000000 C	260000	pg/g	EPA-14 1668
PCB 61 (BZ)	12000000 C	260000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 63 (BZ)	1000000	260000	pg/g	EPA-14 1668
PCB 64 (BZ)	19000000 C	260000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 66 (BZ)	13000000 C	260000	pg/g	EPA-14 1668
PCB 67 (BZ)	950000	260000	pg/g	EPA-14 1668
PCB 68 (BZ)	19000000 C	260000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 70 (BZ)	18000000	260000	pg/g	EPA-14 1668
PCB 71 (BZ)	7700000	260000	pg/g	EPA-14 1668
PCB 72 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 73 (BZ)	19000000 C	260000	pg/g	EPA-14 1668
PCB 74 (BZ)	12000000 C	260000	pg/g	EPA-14 1668
PCB 75 (BZ)	7300000 C	260000	pg/g	EPA-14 1668
PCB 76 (BZ)	13000000 C	260000	pg/g	EPA-14 1668
PCB 77 (BZ)	1800000 JA	260000	pg/g	EPA-14 1668
PCB 78 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 79 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 80 (BZ)	13000000 C	260000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND G	230000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-1

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-001 Work Order #...: GG41R1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	1700000	260000	pg/g	EPA-14 1668
PCB 83 (BZ)	400000 C	260000	pg/g	EPA-14 1668
PCB 84 (BZ)	2100000	260000	pg/g	EPA-14 1668
PCB 85 (BZ)	1600000 C	260000	pg/g	EPA-14 1668
PCB 86 (BZ)	6000000 C	260000	pg/g	EPA-14 1668
PCB 87 (BZ)	6000000 C	260000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 89 (BZ)	2800000 C	260000	pg/g	EPA-14 1668
PCB 90 (BZ)	2800000 C	260000	pg/g	EPA-14 1668
PCB 91 (BZ)	1200000	260000	pg/g	EPA-14 1668
PCB 92 (BZ)	840000	260000	pg/g	EPA-14 1668
PCB 93 (BZ)	3900000 C	260000	pg/g	EPA-14 1668
PCB 94 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 95 (BZ)	3900000 C	260000	pg/g	EPA-14 1668
PCB 96 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 97 (BZ)	6000000 C	260000	pg/g	EPA-14 1668
PCB 98 (BZ)	370000 C	260000	pg/g	EPA-14 1668
PCB 99 (BZ)	2800000	260000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 101 (BZ)	2800000 C	260000	pg/g	EPA-14 1668
PCB 102 (BZ)	370000 C	260000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 105 (BZ)	2200000 C	26000	pg/g	EPA-14 1668
PCB 106 (BZ)	3000000 C	260000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	360000 C	260000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	360000 C	260000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	400000 C	260000	pg/g	EPA-14 1668
PCB 110 (BZ)	5100000	260000	pg/g	EPA-14 1668
PCB 111 (BZ)	6000000 C	260000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 114 (BZ)	150000	26000	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 117 (BZ)	6000000 C	260000	pg/g	EPA-14 1668
PCB 118 (BZ)	3000000 C	26000	pg/g	EPA-14 1668
PCB 119 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 120 (BZ)	1600000 C	260000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 122 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND G	120000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-1

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-001 Work Order #...: GG41R1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 125 (BZ)	**6000000 C**	**260000**	**pg/g**	**EPA-14 1668**
PCB 126 (BZ)	**29000**	**26000**	**pg/g**	**EPA-14 1668**
PCB 127 (BZ)	**2200000 C**	**260000**	**pg/g**	**EPA-14 1668**
PCB 128 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 129 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 130 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 131 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 132 (BZ)	**470000 C**	**260000**	**pg/g**	**EPA-14 1668**
PCB 133 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 134 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 135 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 136 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 137 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 138 (BZ)	**1100000 C**	**260000**	**pg/g**	**EPA-14 1668**
PCB 139 (BZ)	**770000 C**	**260000**	**pg/g**	**EPA-14 1668**
PCB 140 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 141 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 142 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 144 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 146 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 147 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 149 (BZ)	**770000 C**	**260000**	**pg/g**	**EPA-14 1668**
PCB 150 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 151 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 153 (BZ)	**660000**	**260000**	**pg/g**	**EPA-14 1668**
PCB 154 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 156 (BZ)	**110000**	**26000**	**pg/g**	**EPA-14 1668**
PCB 157 (BZ)	**29000**	**26000**	**pg/g**	**EPA-14 1668**
PCB 158 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 160 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 162 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 163 (BZ)	**1100000 C**	**260000**	**pg/g**	**EPA-14 1668**
PCB 164 (BZ)	**1100000 C**	**260000**	**pg/g**	**EPA-14 1668**
PCB 165 (BZ)	ND	260000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-1

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-001 Work Order #...: GG41R1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 167 (BZ)	ND	26000	pg/g	EPA-14 1668
PCB 168 (BZ)	**470000 C**	**260000**	**pg/g**	**EPA-14 1668**
PCB 169 (BZ)	ND	26000	pg/g	EPA-14 1668
PCB 170 (BZ)	**96000 C**	**26000**	**pg/g**	**EPA-14 1668**
PCB 171 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 172 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 174 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 175 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 176 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 177 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 178 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 179 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 180 (BZ)	**180000**	**26000**	**pg/g**	**EPA-14 1668**
PCB 181 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 182 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 183 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 185 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 187 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 189 (BZ)	ND	26000	pg/g	EPA-14 1668
PCB 190 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 191 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 192 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 193 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 194 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 195 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 196 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	260000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	260000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	260000	pg/g	EPA-14 1668
PCB 202 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 203 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 206 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	260000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-1

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-001 Work Order #...: GG41R1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	260000	pg/g	EPA-14 1668
PCB 209 (BZ)	ND	260000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	88	(25 - 150)
13C12-PCB 15	93	(25 - 150)
13C12-PCB 28	74	(25 - 150)
13C12-PCB 77	92	(25 - 150)
13C12-PCB 81	83	(25 - 150)
13C12-PCB 118	114	(25 - 150)
13C12-PCB 114	121	(25 - 150)
13C12-PCB 105	119	(25 - 150)
13C12-PCB 126	118	(25 - 150)
13C12-PCB 167	95	(25 - 150)
13C12-PCB 156	109	(25 - 150)
13C12-PCB 169	90	(25 - 150)
13C12-PCB 180	115	(25 - 150)
13C12-PCB 170	114	(25 - 150)
13C12-PCB 189	118	(25 - 150)
13C12-PCB 194	102	(25 - 150)
13C12-PCB 208	106	(25 - 150)
13C12-PCB 209	91	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

C Co-eluting isomer.

JA The analyte was positively identified, but the quantitation is an estimate.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

STL BUFFALO

Client Sample ID: MSTP-2

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-002 Work Order #...: GG41V1AC Matrix.....: SOLID
Date Sampled...: 05/17/04 Date Received..: 05/25/04
Prep Date.....: 05/28/04 Analysis Date..: 06/04/04
Prep Batch #...: 4149235
Dilution Factor: 10000

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	29000	230000	pg/g	EPA-14 1668
PCB 2 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 3 (BZ)	7100	230000	pg/g	EPA-14 1668
PCB 4 (BZ)	17000000 C,D	2300000	pg/g	EPA-14 1668
PCB 5 (BZ)	7000000 C	230000	pg/g	EPA-14 1668
PCB 6 (BZ)	19000000 D	2300000	pg/g	EPA-14 1668
PCB 7 (BZ)	8500000 C	230000	pg/g	EPA-14 1668
PCB 8 (BZ)	7000000 C	230000	pg/g	EPA-14 1668
PCB 9 (BZ)	8500000 C	230000	pg/g	EPA-14 1668
PCB 10 (BZ)	17000000 C,D	2300000	pg/g	EPA-14 1668
PCB 11 (BZ)	800000	230000	pg/g	EPA-14 1668
PCB 12 (BZ)	7800000 C	230000	pg/g	EPA-14 1668
PCB 13 (BZ)	7800000 C	230000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 15 (BZ)	65000000 D	2300000	pg/g	EPA-14 1668
PCB 16 (BZ)	140000000 C,D	2300000	pg/g	EPA-14 1668
PCB 17 (BZ)	48000000 E	230000	pg/g	EPA-14 1668
PCB 18 (BZ)	100000000 D	2300000	pg/g	EPA-14 1668
PCB 19 (BZ)	23000000	230000	pg/g	EPA-14 1668
PCB 20 (BZ)	100000000 C,D	2300000	pg/g	EPA-14 1668
PCB 21 (BZ)	100000000 C,D	2300000	pg/g	EPA-14 1668
PCB 22 (BZ)	97000000 D	2300000	pg/g	EPA-14 1668
PCB 23 (BZ)	410000	230000	pg/g	EPA-14 1668
PCB 24 (BZ)	18000000 C	230000	pg/g	EPA-14 1668
PCB 25 (BZ)	21000000	230000	pg/g	EPA-14 1668
PCB 26 (BZ)	43000000 E	230000	pg/g	EPA-14 1668
PCB 27 (BZ)	18000000 C	230000	pg/g	EPA-14 1668
PCB 28 (BZ)	150000000 D	2300000	pg/g	EPA-14 1668
PCB 29 (BZ)	2700000	230000	pg/g	EPA-14 1668
PCB 30 (BZ)	110000	230000	pg/g	EPA-14 1668
PCB 31 (BZ)	140000000 D	2300000	pg/g	EPA-14 1668
PCB 32 (BZ)	140000000 C,D	2300000	pg/g	EPA-14 1668
PCB 33 (BZ)	100000000 C,D	230000	pg/g	EPA-14 1668
PCB 34 (BZ)	1100000	230000	pg/g	EPA-14 1668
PCB 35 (BZ)	3900000	230000	pg/g	EPA-14 1668
PCB 36 (BZ)	2500000	230000	pg/g	EPA-14 1668
PCB 37 (BZ)	56000000 D	2300000	pg/g	EPA-14 1668
PCB 38 (BZ)	1300000	230000	pg/g	EPA-14 1668
PCB 39 (BZ)	1100000	230000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-2

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-002 Work Order #...: GG41V1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	34000000	230000	pg/g	EPA-14 1668
PCB 41 (BZ)	100000000 C,D	230000	pg/g	EPA-14 1668
PCB 42 (BZ)	62000000 E	230000	pg/g	EPA-14 1668
PCB 43 (BZ)	100000000 C,D	230000	pg/g	EPA-14 1668
PCB 44 (BZ)	110000000 D	2300000	pg/g	EPA-14 1668
PCB 45 (BZ)	46000000 E	230000	pg/g	EPA-14 1668
PCB 46 (BZ)	19000000	230000	pg/g	EPA-14 1668
PCB 47 (BZ)	66000000 C	230000	pg/g	EPA-14 1668
PCB 48 (BZ)	66000000 C	230000	pg/g	EPA-14 1668
PCB 49 (BZ)	100000000 C,D	230000	pg/g	EPA-14 1668
PCB 50 (BZ)	700000	230000	pg/g	EPA-14 1668
PCB 51 (BZ)	13000000	230000	pg/g	EPA-14 1668
PCB 52 (BZ)	99000000 C,D	2300000	pg/g	EPA-14 1668
PCB 53 (BZ)	37000000 E	230000	pg/g	EPA-14 1668
PCB 54 (BZ)	600000	230000	pg/g	EPA-14 1668
PCB 55 (BZ)	4200000	230000	pg/g	EPA-14 1668
PCB 56 (BZ)	120000000 C,E	230000	pg/g	EPA-14 1668
PCB 57 (BZ)	490000 JA	230000	pg/g	EPA-14 1668
PCB 58 (BZ)	280000	230000	pg/g	EPA-14 1668
PCB 59 (BZ)	17000000	230000	pg/g	EPA-14 1668
PCB 60 (BZ)	120000000 C,E	230000	pg/g	EPA-14 1668
PCB 61 (BZ)	66000000 C,E	230000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 63 (BZ)	6000000	230000	pg/g	EPA-14 1668
PCB 64 (BZ)	100000000 C,D	2300000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 66 (BZ)	73000000 C,E	230000	pg/g	EPA-14 1668
PCB 67 (BZ)	6000000	230000	pg/g	EPA-14 1668
PCB 68 (BZ)	100000000 C,D	2300000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 70 (BZ)	150000000 D	2300000	pg/g	EPA-14 1668
PCB 71 (BZ)	55000000 E	230000	pg/g	EPA-14 1668
PCB 72 (BZ)	600000	230000	pg/g	EPA-14 1668
PCB 73 (BZ)	99000000 C,D	2300000	pg/g	EPA-14 1668
PCB 74 (BZ)	66000000 C,E	230000	pg/g	EPA-14 1668
PCB 75 (BZ)	66000000 C	230000	pg/g	EPA-14 1668
PCB 76 (BZ)	73000000 C,E	230000	pg/g	EPA-14 1668
PCB 77 (BZ)	9900000 JA	230000	pg/g	EPA-14 1668
PCB 78 (BZ)	260000	230000	pg/g	EPA-14 1668
PCB 79 (BZ)	370000	230000	pg/g	EPA-14 1668
PCB 80 (BZ)	73000000 C,E	230000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND G	1300000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-2

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-002 Work Order #...: GG41V1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	7500000	230000	pg/g	EPA-14 1668
PCB 83 (BZ)	2100000 C	230000	pg/g	EPA-14 1668
PCB 84 (BZ)	12000000	230000	pg/g	EPA-14 1668
PCB 85 (BZ)	8100000 C	230000	pg/g	EPA-14 1668
PCB 86 (BZ)	29000000 C	230000	pg/g	EPA-14 1668
PCB 87 (BZ)	29000000 C	230000	pg/g	EPA-14 1668
PCB 88 (BZ)	240000 C	230000	pg/g	EPA-14 1668
PCB 89 (BZ)	13000000 C	230000	pg/g	EPA-14 1668
PCB 90 (BZ)	13000000 C	230000	pg/g	EPA-14 1668
PCB 91 (BZ)	6600000	230000	pg/g	EPA-14 1668
PCB 92 (BZ)	4000000	230000	pg/g	EPA-14 1668
PCB 93 (BZ)	21000000 C	230000	pg/g	EPA-14 1668
PCB 94 (BZ)	420000	230000	pg/g	EPA-14 1668
PCB 95 (BZ)	21000000 C	230000	pg/g	EPA-14 1668
PCB 96 (BZ)	880000	230000	pg/g	EPA-14 1668
PCB 97 (BZ)	29000000 C	230000	pg/g	EPA-14 1668
PCB 98 (BZ)	2300000 C	230000	pg/g	EPA-14 1668
PCB 99 (BZ)	13000000	230000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 101 (BZ)	13000000 C	230000	pg/g	EPA-14 1668
PCB 102 (BZ)	2300000 C	230000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 104 (BZ)	6800	230000	pg/g	EPA-14 1668
PCB 105 (BZ)	11000000 C	23000	pg/g	EPA-14 1668
PCB 106 (BZ)	14000000 C	230000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	1800000 C	230000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	1800000 C	230000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	2100000 C	230000	pg/g	EPA-14 1668
PCB 110 (BZ)	24000000 E	230000	pg/g	EPA-14 1668
PCB 111 (BZ)	29000000 C	230000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 114 (BZ)	740000	23000	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 117 (BZ)	29000000 C	230000	pg/g	EPA-14 1668
PCB 118 (BZ)	14000000 C	23000	pg/g	EPA-14 1668
PCB 119 (BZ)	580000	230000	pg/g	EPA-14 1668
PCB 120 (BZ)	8100000 C	230000	pg/g	EPA-14 1668
PCB 121 (BZ)	240000 C	230000	pg/g	EPA-14 1668
PCB 122 (BZ)	570000	230000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND G	520000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-2

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-002 Work Order #...: GG41V1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	890000	230000	pg/g	EPA-14 1668
PCB 125 (BZ)	29000000 C	230000	pg/g	EPA-14 1668
PCB 126 (BZ)	110000	23000	pg/g	EPA-14 1668
PCB 127 (BZ)	11000000 C	230000	pg/g	EPA-14 1668
PCB 128 (BZ)	990000	230000	pg/g	EPA-14 1668
PCB 129 (BZ)	390000	230000	pg/g	EPA-14 1668
PCB 130 (BZ)	400000	230000	pg/g	EPA-14 1668
PCB 131 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 132 (BZ)	1800000 C	230000	pg/g	EPA-14 1668
PCB 133 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 134 (BZ)	360000	230000	pg/g	EPA-14 1668
PCB 135 (BZ)	670000 C	230000	pg/g	EPA-14 1668
PCB 136 (BZ)	620000	230000	pg/g	EPA-14 1668
PCB 137 (BZ)	280000	230000	pg/g	EPA-14 1668
PCB 138 (BZ)	3900000 C	230000	pg/g	EPA-14 1668
PCB 139 (BZ)	2800000 C	230000	pg/g	EPA-14 1668
PCB 140 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 141 (BZ)	690000	230000	pg/g	EPA-14 1668
PCB 142 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 144 (BZ)	670000 C	230000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 146 (BZ)	360000	230000	pg/g	EPA-14 1668
PCB 147 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 149 (BZ)	2800000 C	230000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 151 (BZ)	570000	230000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 153 (BZ)	1500000	230000	pg/g	EPA-14 1668
PCB 154 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 156 (BZ)	430000	23000	pg/g	EPA-14 1668
PCB 157 (BZ)	110000	23000	pg/g	EPA-14 1668
PCB 158 (BZ)	560000 C	230000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 160 (BZ)	560000 C	230000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 162 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 163 (BZ)	3900000 C	230000	pg/g	EPA-14 1668
PCB 164 (BZ)	3900000 C	230000	pg/g	EPA-14 1668
PCB 165 (BZ)	ND	230000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-2

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-002 Work Order #...: GG41V1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 167 (BZ)	81000	23000	pg/g	EPA-14 1668
PCB 168 (BZ)	1800000 C	230000	pg/g	EPA-14 1668
PCB 169 (BZ)	ND	23000	pg/g	EPA-14 1668
PCB 170 (BZ)	320000 C	23000	pg/g	EPA-14 1668
PCB 171 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 172 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 174 (BZ)	580000	230000	pg/g	EPA-14 1668
PCB 175 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 176 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 177 (BZ)	230000	230000	pg/g	EPA-14 1668
PCB 178 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 179 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 180 (BZ)	410000	23000	pg/g	EPA-14 1668
PCB 181 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 182 (BZ)	230000 C	230000	pg/g	EPA-14 1668
PCB 183 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 185 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 187 (BZ)	230000 C	230000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 189 (BZ)	13000	23000	pg/g	EPA-14 1668
PCB 190 (BZ)	320000 C	230000	pg/g	EPA-14 1668
PCB 191 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 192 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 193 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 194 (BZ)	81000	230000	pg/g	EPA-14 1668
PCB 195 (BZ)	30000	230000	pg/g	EPA-14 1668
PCB 196 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	230000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	230000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	230000	pg/g	EPA-14 1668
PCB 202 (BZ)	9700	230000	pg/g	EPA-14 1668
PCB 203 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 206 (BZ)	27000	230000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	230000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-2

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-002 Work Order #...: GG41V1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	4000	230000	pg/g	EPA-14 1668
PCB 209 (BZ)	1000	230000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	87	(25 - 150)
13C12-PCB 15	90	(25 - 150)
13C12-PCB 28	65	(25 - 150)
13C12-PCB 77	91	(25 - 150)
13C12-PCB 81	72	(25 - 150)
13C12-PCB 118	107	(25 - 150)
13C12-PCB 114	108	(25 - 150)
13C12-PCB 105	102	(25 - 150)
13C12-PCB 126	104	(25 - 150)
13C12-PCB 167	110	(25 - 150)
13C12-PCB 156	122	(25 - 150)
13C12-PCB 169	103	(25 - 150)
13C12-PCB 180	124	(25 - 150)
13C12-PCB 170	121	(25 - 150)
13C12-PCB 189	126	(25 - 150)
13C12-PCB 194	116	(25 - 150)
13C12-PCB 208	115	(25 - 150)
13C12-PCB 209	97	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

C Co-eluting isomer.

D Result was obtained from the analysis of a dilution.

E Estimated result. Result concentration exceeds the calibration range.

JA The analyte was positively identified, but the quantitation is an estimate.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

STL BUFFALO

Client Sample ID: MSTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-003 Work Order #...: GG41W1AC Matrix.....: SOLID
Date Sampled...: 05/17/04 Date Received..: 05/25/04
Prep Date.....: 05/28/04 Analysis Date..: 06/04/04
Prep Batch #...: 4149235
Dilution Factor: 10000

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	8100000	230000	pg/g	EPA-14 1668
PCB 2 (BZ)	420000	230000	pg/g	EPA-14 1668
PCB 3 (BZ)	1100000	230000	pg/g	EPA-14 1668
PCB 4 (BZ)	95000000 C,D	2300000	pg/g	EPA-14 1668
PCB 5 (BZ)	240000000 C,E,D	2300000	pg/g	EPA-14 1668
PCB 6 (BZ)	68000000 D	2300000	pg/g	EPA-14 1668
PCB 7 (BZ)	29000000 C,E	230000	pg/g	EPA-14 1668
PCB 8 (BZ)	240000000 C,E,D	2300000	pg/g	EPA-14 1668
PCB 9 (BZ)	29000000 C,E	230000	pg/g	EPA-14 1668
PCB 10 (BZ)	95000000 C,D	2300000	pg/g	EPA-14 1668
PCB 11 (BZ)	1400000	230000	pg/g	EPA-14 1668
PCB 12 (BZ)	20000000 C	230000	pg/g	EPA-14 1668
PCB 13 (BZ)	20000000 C	230000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 15 (BZ)	110000000 D	2300000	pg/g	EPA-14 1668
PCB 16 (BZ)	240000000 C,E,D	2300000	pg/g	EPA-14 1668
PCB 17 (BZ)	120000000 D	2300000	pg/g	EPA-14 1668
PCB 18 (BZ)	140000000 D	2300000	pg/g	EPA-14 1668
PCB 19 (BZ)	37000000 E	230000	pg/g	EPA-14 1668
PCB 20 (BZ)	230000000 C,D	2300000	pg/g	EPA-14 1668
PCB 21 (BZ)	230000000 C,D	2300000	pg/g	EPA-14 1668
PCB 22 (BZ)	160000000 D	2300000	pg/g	EPA-14 1668
PCB 23 (BZ)	410000	230000	pg/g	EPA-14 1668
PCB 24 (BZ)	24000000 C,E	230000	pg/g	EPA-14 1668
PCB 25 (BZ)	27000000 E	230000	pg/g	EPA-14 1668
PCB 26 (BZ)	50000000 E	230000	pg/g	EPA-14 1668
PCB 27 (BZ)	24000000 C,E	230000	pg/g	EPA-14 1668
PCB 28 (BZ)	160000000 D	2300000	pg/g	EPA-14 1668
PCB 29 (BZ)	2700000	230000	pg/g	EPA-14 1668
PCB 30 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 31 (BZ)	150000000 D	2300000	pg/g	EPA-14 1668
PCB 32 (BZ)	240000000 C,E,D	2300000	pg/g	EPA-14 1668
PCB 33 (BZ)	230000000 C,D	230000	pg/g	EPA-14 1668
PCB 34 (BZ)	1000000	230000	pg/g	EPA-14 1668
PCB 35 (BZ)	6500000	230000	pg/g	EPA-14 1668
PCB 36 (BZ)	3900000	230000	pg/g	EPA-14 1668
PCB 37 (BZ)	92000000 D,B	2300000	pg/g	EPA-14 1668
PCB 38 (BZ)	1300000	230000	pg/g	EPA-14 1668
PCB 39 (BZ)	2100000	230000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-003 Work Order #...: GG41W1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	54000000 E	230000	pg/g	EPA-14 1668
PCB 41 (BZ)	140000000 C,D	2300000	pg/g	EPA-14 1668
PCB 42 (BZ)	85000000 E	230000	pg/g	EPA-14 1668
PCB 43 (BZ)	100000000 C,E	230000	pg/g	EPA-14 1668
PCB 44 (BZ)	150000000 D	2300000	pg/g	EPA-14 1668
PCB 45 (BZ)	72000000 E	230000	pg/g	EPA-14 1668
PCB 46 (BZ)	31000000 E	230000	pg/g	EPA-14 1668
PCB 47 (BZ)	58000000 C,E	230000	pg/g	EPA-14 1668
PCB 48 (BZ)	58000000 C,E	230000	pg/g	EPA-14 1668
PCB 49 (BZ)	100000000 C,E	230000	pg/g	EPA-14 1668
PCB 50 (BZ)	530000 JA	230000	pg/g	EPA-14 1668
PCB 51 (BZ)	15000000	230000	pg/g	EPA-14 1668
PCB 52 (BZ)	81000000 C,D	2300000	pg/g	EPA-14 1668
PCB 53 (BZ)	43000000 E	230000	pg/g	EPA-14 1668
PCB 54 (BZ)	920000	230000	pg/g	EPA-14 1668
PCB 55 (BZ)	6400000	230000	pg/g	EPA-14 1668
PCB 56 (BZ)	210000000 D,C	2300000	pg/g	EPA-14 1668
PCB 57 (BZ)	310000 JA	230000	pg/g	EPA-14 1668
PCB 58 (BZ)	350000	230000	pg/g	EPA-14 1668
PCB 59 (BZ)	28000000 E	230000	pg/g	EPA-14 1668
PCB 60 (BZ)	210000000 D,C	2300000	pg/g	EPA-14 1668
PCB 61 (BZ)	64000000 C,E	230000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 63 (BZ)	6000000	230000	pg/g	EPA-14 1668
PCB 64 (BZ)	140000000 C,D	2300000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 66 (BZ)	120000000 D,C	2300000	pg/g	EPA-14 1668
PCB 67 (BZ)	5700000	230000	pg/g	EPA-14 1668
PCB 68 (BZ)	140000000 C,D	2300000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 70 (BZ)	170000000 D	2300000	pg/g	EPA-14 1668
PCB 71 (BZ)	57000000 D	2300000	pg/g	EPA-14 1668
PCB 72 (BZ)	400000	230000	pg/g	EPA-14 1668
PCB 73 (BZ)	81000000 C,D	2300000	pg/g	EPA-14 1668
PCB 74 (BZ)	64000000 C,E	230000	pg/g	EPA-14 1668
PCB 75 (BZ)	58000000 C,E	230000	pg/g	EPA-14 1668
PCB 76 (BZ)	77000000 C,E	230000	pg/g	EPA-14 1668
PCB 77 (BZ)	17000000 JA	230000	pg/g	EPA-14 1668
PCB 78 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 79 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 80 (BZ)	120000000 D,C	2300000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND G	1900000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-003 Work Order #...: GG41W1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	14000000	230000	pg/g	EPA-14 1668
PCB 83 (BZ)	2800000 C	230000	pg/g	EPA-14 1668
PCB 84 (BZ)	20000000	230000	pg/g	EPA-14 1668
PCB 85 (BZ)	11000000 C	230000	pg/g	EPA-14 1668
PCB 86 (BZ)	37000000 C	230000	pg/g	EPA-14 1668
PCB 87 (BZ)	37000000 C	230000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 89 (BZ)	8900000 C	230000	pg/g	EPA-14 1668
PCB 90 (BZ)	8900000 C	230000	pg/g	EPA-14 1668
PCB 91 (BZ)	6700000	230000	pg/g	EPA-14 1668
PCB 92 (BZ)	2800000	230000	pg/g	EPA-14 1668
PCB 93 (BZ)	22000000 C	230000	pg/g	EPA-14 1668
PCB 94 (BZ)	420000	230000	pg/g	EPA-14 1668
PCB 95 (BZ)	22000000 C	230000	pg/g	EPA-14 1668
PCB 96 (BZ)	1100000	230000	pg/g	EPA-14 1668
PCB 97 (BZ)	37000000 C	230000	pg/g	EPA-14 1668
PCB 98 (BZ)	1600000 C	230000	pg/g	EPA-14 1668
PCB 99 (BZ)	6900000	230000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 101 (BZ)	8900000 C	230000	pg/g	EPA-14 1668
PCB 102 (BZ)	1600000 C	230000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 105 (BZ)	19000000 C	23000	pg/g	EPA-14 1668
PCB 106 (BZ)	17000000 C	230000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	2100000 C	230000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	2100000 C	230000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	2800000 C	230000	pg/g	EPA-14 1668
PCB 110 (BZ)	37000000 E	230000	pg/g	EPA-14 1668
PCB 111 (BZ)	37000000 C	230000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 114 (BZ)	1000000	23000	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 117 (BZ)	37000000 C	230000	pg/g	EPA-14 1668
PCB 118 (BZ)	17000000 C	23000	pg/g	EPA-14 1668
PCB 119 (BZ)	340000	230000	pg/g	EPA-14 1668
PCB 120 (BZ)	11000000 C	230000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 122 (BZ)	960000	230000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND G	600000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-003 Work Order #...: GG41W1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	940000	230000	pg/g	EPA-14 1668
PCB 125 (BZ)	37000000 C	230000	pg/g	EPA-14 1668
PCB 126 (BZ)	230000	23000	pg/g	EPA-14 1668
PCB 127 (BZ)	19000000 C	230000	pg/g	EPA-14 1668
PCB 128 (BZ)	2400000	230000	pg/g	EPA-14 1668
PCB 129 (BZ)	810000	230000	pg/g	EPA-14 1668
PCB 130 (BZ)	690000	230000	pg/g	EPA-14 1668
PCB 131 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 132 (BZ)	3800000 C	230000	pg/g	EPA-14 1668
PCB 133 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 134 (BZ)	660000	230000	pg/g	EPA-14 1668
PCB 135 (BZ)	730000 C	230000	pg/g	EPA-14 1668
PCB 136 (BZ)	980000	230000	pg/g	EPA-14 1668
PCB 137 (BZ)	360000	230000	pg/g	EPA-14 1668
PCB 138 (BZ)	6600000 C	230000	pg/g	EPA-14 1668
PCB 139 (BZ)	3200000 C	230000	pg/g	EPA-14 1668
PCB 140 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 141 (BZ)	830000	230000	pg/g	EPA-14 1668
PCB 142 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 144 (BZ)	730000 C	230000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 146 (BZ)	240000	230000	pg/g	EPA-14 1668
PCB 147 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 149 (BZ)	3200000 C	230000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 151 (BZ)	570000	230000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 153 (BZ)	990000	230000	pg/g	EPA-14 1668
PCB 154 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 156 (BZ)	940000	23000	pg/g	EPA-14 1668
PCB 157 (BZ)	260000	23000	pg/g	EPA-14 1668
PCB 158 (BZ)	810000 C	230000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 160 (BZ)	810000 C	230000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 162 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 163 (BZ)	6600000 C	230000	pg/g	EPA-14 1668
PCB 164 (BZ)	6600000 C	230000	pg/g	EPA-14 1668
PCB 165 (BZ)	ND	230000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-003 Work Order #...: GG41W1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 167 (BZ)	**130000**	**23000**	**pg/g**	**EPA-14 1668**
PCB 168 (BZ)	**3800000 C**	**230000**	**pg/g**	**EPA-14 1668**
PCB 169 (BZ)	ND	23000	pg/g	EPA-14 1668
PCB 170 (BZ)	**790000 C**	**23000**	**pg/g**	**EPA-14 1668**
PCB 171 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 172 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 174 (BZ)	**930000**	**230000**	**pg/g**	**EPA-14 1668**
PCB 175 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 176 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 177 (BZ)	**490000**	**230000**	**pg/g**	**EPA-14 1668**
PCB 178 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 179 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 180 (BZ)	**440000**	**23000**	**pg/g**	**EPA-14 1668**
PCB 181 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 182 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 183 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 185 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 187 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 189 (BZ)	**29000**	**23000**	**pg/g**	**EPA-14 1668**
PCB 190 (BZ)	**790000 C**	**230000**	**pg/g**	**EPA-14 1668**
PCB 191 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 192 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 193 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 194 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 195 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 196 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	230000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	230000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	230000	pg/g	EPA-14 1668
PCB 202 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 203 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 206 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	230000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: MSTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-003 Work Order #...: GG41W1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 209 (BZ)	ND	230000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	83	(25 - 150)
13C12-PCB 15	83	(25 - 150)
13C12-PCB 28	57	(25 - 150)
13C12-PCB 77	92	(25 - 150)
13C12-PCB 81	67	(25 - 150)
13C12-PCB 118	110	(25 - 150)
13C12-PCB 114	101	(25 - 150)
13C12-PCB 105	107	(25 - 150)
13C12-PCB 126	106	(25 - 150)
13C12-PCB 167	112	(25 - 150)
13C12-PCB 156	126	(25 - 150)
13C12-PCB 169	103	(25 - 150)
13C12-PCB 180	120	(25 - 150)
13C12-PCB 170	117	(25 - 150)
13C12-PCB 189	122	(25 - 150)
13C12-PCB 194	116	(25 - 150)
13C12-PCB 208	113	(25 - 150)
13C12-PCB 209	95	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

C Co-eluting isomer.

D Result was obtained from the analysis of a dilution.

E Estimated result. Result concentration exceeds the calibration range.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

JA The analyte was positively identified, but the quantitation is an estimate.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

STL BUFFALO

Client Sample ID: ESTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-004 Work Order #...: GG41X1AC Matrix.....: SOLID
Date Sampled...: 05/17/04 Date Received..: 05/25/04
Prep Date.....: 05/28/04 Analysis Date..: 06/04/04
Prep Batch #...: 4149235
Dilution Factor: 10000

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 2 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 3 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 4 (BZ)	4100000 C	230000	pg/g	EPA-14 1668
PCB 5 (BZ)	1700000 C	230000	pg/g	EPA-14 1668
PCB 6 (BZ)	4400000	230000	pg/g	EPA-14 1668
PCB 7 (BZ)	1400000 C	230000	pg/g	EPA-14 1668
PCB 8 (BZ)	1700000 C	230000	pg/g	EPA-14 1668
PCB 9 (BZ)	1400000 C	230000	pg/g	EPA-14 1668
PCB 10 (BZ)	4100000 C	230000	pg/g	EPA-14 1668
PCB 11 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 12 (BZ)	1400000 C	230000	pg/g	EPA-14 1668
PCB 13 (BZ)	1400000 C	230000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 15 (BZ)	13000000	230000	pg/g	EPA-14 1668
PCB 16 (BZ)	22000000 C	230000	pg/g	EPA-14 1668
PCB 17 (BZ)	11000000	230000	pg/g	EPA-14 1668
PCB 18 (BZ)	22000000	230000	pg/g	EPA-14 1668
PCB 19 (BZ)	5100000	230000	pg/g	EPA-14 1668
PCB 20 (BZ)	21000000 C	230000	pg/g	EPA-14 1668
PCB 21 (BZ)	21000000 C	230000	pg/g	EPA-14 1668
PCB 22 (BZ)	23000000	230000	pg/g	EPA-14 1668
PCB 23 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 24 (BZ)	4400000 C	230000	pg/g	EPA-14 1668
PCB 25 (BZ)	4700000	230000	pg/g	EPA-14 1668
PCB 26 (BZ)	8900000	230000	pg/g	EPA-14 1668
PCB 27 (BZ)	4400000 C	230000	pg/g	EPA-14 1668
PCB 28 (BZ)	49000000 E	230000	pg/g	EPA-14 1668
PCB 29 (BZ)	480000	230000	pg/g	EPA-14 1668
PCB 30 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 31 (BZ)	32000000 E	230000	pg/g	EPA-14 1668
PCB 32 (BZ)	22000000 C	230000	pg/g	EPA-14 1668
PCB 33 (BZ)	21000000 C	230000	pg/g	EPA-14 1668
PCB 34 (BZ)	250000	230000	pg/g	EPA-14 1668
PCB 35 (BZ)	780000	230000	pg/g	EPA-14 1668
PCB 36 (BZ)	840000	230000	pg/g	EPA-14 1668
PCB 37 (BZ)	17000000	230000	pg/g	EPA-14 1668
PCB 38 (BZ)	660000	230000	pg/g	EPA-14 1668
PCB 39 (BZ)	340000	230000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-004 Work Order #...: GG41X1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	10000000	230000	pg/g	EPA-14 1668
PCB 41 (BZ)	52000000 C,E	230000	pg/g	EPA-14 1668
PCB 42 (BZ)	25000000 E	230000	pg/g	EPA-14 1668
PCB 43 (BZ)	61000000 C,E	230000	pg/g	EPA-14 1668
PCB 44 (BZ)	56000000 E	230000	pg/g	EPA-14 1668
PCB 45 (BZ)	18000000	230000	pg/g	EPA-14 1668
PCB 46 (BZ)	7300000	230000	pg/g	EPA-14 1668
PCB 47 (BZ)	28000000 C,E	230000	pg/g	EPA-14 1668
PCB 48 (BZ)	28000000 C,E	230000	pg/g	EPA-14 1668
PCB 49 (BZ)	61000000 C,E	230000	pg/g	EPA-14 1668
PCB 50 (BZ)	350000	230000	pg/g	EPA-14 1668
PCB 51 (BZ)	5500000	230000	pg/g	EPA-14 1668
PCB 52 (BZ)	59000000 C,E	230000	pg/g	EPA-14 1668
PCB 53 (BZ)	15000000	230000	pg/g	EPA-14 1668
PCB 54 (BZ)	240000	230000	pg/g	EPA-14 1668
PCB 55 (BZ)	1500000	230000	pg/g	EPA-14 1668
PCB 56 (BZ)	45000000 C,E	230000	pg/g	EPA-14 1668
PCB 57 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 58 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 59 (BZ)	6800000	230000	pg/g	EPA-14 1668
PCB 60 (BZ)	45000000 C,E	230000	pg/g	EPA-14 1668
PCB 61 (BZ)	27000000 C,E	230000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 63 (BZ)	2300000	230000	pg/g	EPA-14 1668
PCB 64 (BZ)	52000000 C,E	230000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 66 (BZ)	29000000 C,E	230000	pg/g	EPA-14 1668
PCB 67 (BZ)	2200000	230000	pg/g	EPA-14 1668
PCB 68 (BZ)	52000000 C,E	230000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 70 (BZ)	41000000 E	230000	pg/g	EPA-14 1668
PCB 71 (BZ)	24000000 E	230000	pg/g	EPA-14 1668
PCB 72 (BZ)	290000	230000	pg/g	EPA-14 1668
PCB 73 (BZ)	59000000 C,E	230000	pg/g	EPA-14 1668
PCB 74 (BZ)	27000000 C,E	230000	pg/g	EPA-14 1668
PCB 75 (BZ)	28000000 C,E	230000	pg/g	EPA-14 1668
PCB 76 (BZ)	29000000 C,E	230000	pg/g	EPA-14 1668
PCB 77 (BZ)	4400000 JA	230000	pg/g	EPA-14 1668
PCB 78 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 79 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 80 (BZ)	29000000 C,E	230000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND G	600000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-004 Work Order #...: GG41X1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	2800000	230000	pg/g	EPA-14 1668
PCB 83 (BZ)	920000 C	230000	pg/g	EPA-14 1668
PCB 84 (BZ)	4300000	230000	pg/g	EPA-14 1668
PCB 85 (BZ)	3100000 C	230000	pg/g	EPA-14 1668
PCB 86 (BZ)	11000000 C	230000	pg/g	EPA-14 1668
PCB 87 (BZ)	11000000 C	230000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 89 (BZ)	6300000 C	230000	pg/g	EPA-14 1668
PCB 90 (BZ)	6300000 C	230000	pg/g	EPA-14 1668
PCB 91 (BZ)	2700000	230000	pg/g	EPA-14 1668
PCB 92 (BZ)	1800000	230000	pg/g	EPA-14 1668
PCB 93 (BZ)	9000000 C	230000	pg/g	EPA-14 1668
PCB 94 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 95 (BZ)	9000000 C	230000	pg/g	EPA-14 1668
PCB 96 (BZ)	340000	230000	pg/g	EPA-14 1668
PCB 97 (BZ)	11000000 C	230000	pg/g	EPA-14 1668
PCB 98 (BZ)	940000 C	230000	pg/g	EPA-14 1668
PCB 99 (BZ)	6200000	230000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 101 (BZ)	6300000 C	230000	pg/g	EPA-14 1668
PCB 102 (BZ)	940000 C	230000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 105 (BZ)	4500000 C	23000	pg/g	EPA-14 1668
PCB 106 (BZ)	6200000 C	230000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	760000 C	230000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	760000 C	230000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	920000 C	230000	pg/g	EPA-14 1668
PCB 110 (BZ)	9400000	230000	pg/g	EPA-14 1668
PCB 111 (BZ)	11000000 C	23	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 114 (BZ)	300000	23000	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 117 (BZ)	11000000 C	23	pg/g	EPA-14 1668
PCB 118 (BZ)	6200000 C	23000	pg/g	EPA-14 1668
PCB 119 (BZ)	300000	230000	pg/g	EPA-14 1668
PCB 120 (BZ)	3100000 C	230000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 122 (BZ)	230000	230000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND G	240000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-004 Work Order #...: GG41X1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	410000	230000	pg/g	EPA-14 1668
PCB 125 (BZ)	11000000 C	230000	pg/g	EPA-14 1668
PCB 126 (BZ)	62000	23000	pg/g	EPA-14 1668
PCB 127 (BZ)	4500000 C	230000	pg/g	EPA-14 1668
PCB 128 (BZ)	440000	230000	pg/g	EPA-14 1668
PCB 129 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 130 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 131 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 132 (BZ)	690000 C	230000	pg/g	EPA-14 1668
PCB 133 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 134 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 135 (BZ)	320000 C	230000	pg/g	EPA-14 1668
PCB 136 (BZ)	250000	230000	pg/g	EPA-14 1668
PCB 137 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 138 (BZ)	1800000 C	230000	pg/g	EPA-14 1668
PCB 139 (BZ)	1300000 C	230000	pg/g	EPA-14 1668
PCB 140 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 141 (BZ)	370000	230000	pg/g	EPA-14 1668
PCB 142 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 144 (BZ)	320000 C	230000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 146 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 147 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 149 (BZ)	1300000 C	230000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 151 (BZ)	290000	230000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 153 (BZ)	1100000	230000	pg/g	EPA-14 1668
PCB 154 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 156 (BZ)	190000	23000	pg/g	EPA-14 1668
PCB 157 (BZ)	47000	23000	pg/g	EPA-14 1668
PCB 158 (BZ)	270000 C	230000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 160 (BZ)	270000 C	230000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 162 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 163 (BZ)	1800000 C	230000	pg/g	EPA-14 1668
PCB 164 (BZ)	1800000 C	230000	pg/g	EPA-14 1668
PCB 165 (BZ)	ND	230000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-004 Work Order #...: GG41X1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 167 (BZ)	**46000**	**23000**	**pg/g**	**EPA-14 1668**
PCB 168 (BZ)	**690000 C**	**230000**	**pg/g**	**EPA-14 1668**
PCB 169 (BZ)	ND	23000	pg/g	EPA-14 1668
PCB 170 (BZ)	**180000 C**	**23000**	**pg/g**	**EPA-14 1668**
PCB 171 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 172 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 174 (BZ)	**370000**	**230000**	**pg/g**	**EPA-14 1668**
PCB 175 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 176 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 177 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 178 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 179 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 180 (BZ)	**340000**	**23000**	**pg/g**	**EPA-14 1668**
PCB 181 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 182 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 183 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 185 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 187 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 189 (BZ)	ND	23000	pg/g	EPA-14 1668
PCB 190 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 191 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 192 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 193 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 194 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 195 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 196 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	230000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	230000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	230000	pg/g	EPA-14 1668
PCB 202 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 203 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 206 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	230000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-3

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-004 Work Order #...: GG41X1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	230000	pg/g	EPA-14 1668
PCB 209 (BZ)	ND	230000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	82	(25 - 150)
13C12-PCB 15	86	(25 - 150)
13C12-PCB 28	61	(25 - 150)
13C12-PCB 77	88	(25 - 150)
13C12-PCB 81	62	(25 - 150)
13C12-PCB 118	101	(25 - 150)
13C12-PCB 114	105	(25 - 150)
13C12-PCB 105	105	(25 - 150)
13C12-PCB 126	104	(25 - 150)
13C12-PCB 167	116	(25 - 150)
13C12-PCB 156	128	(25 - 150)
13C12-PCB 169	106	(25 - 150)
13C12-PCB 180	122	(25 - 150)
13C12-PCB 170	119	(25 - 150)
13C12-PCB 189	124	(25 - 150)
13C12-PCB 194	117	(25 - 150)
13C12-PCB 208	114	(25 - 150)
13C12-PCB 209	90	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

C Co-eluting isomer.

E Estimated result. Result concentration exceeds the calibration range.

JA The analyte was positively identified, but the quantitation is an estimate.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

STL BUFFALO

Client Sample ID: ESTP-4

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-005 Work Order #...: GG4111AC Matrix.....: SOLID
Date Sampled...: 05/17/04 Date Received..: 05/25/04
Prep Date.....: 05/28/04 Analysis Date..: 06/04/04
Prep Batch #...: 4149235
Dilution Factor: 10000

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 2 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 3 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 4 (BZ)	1100000 C	220000	pg/g	EPA-14 1668
PCB 5 (BZ)	660000 C	220000	pg/g	EPA-14 1668
PCB 6 (BZ)	ND	2200000	pg/g	EPA-14 1668
PCB 7 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 8 (BZ)	660000 C	220000	pg/g	EPA-14 1668
PCB 9 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 10 (BZ)	1100000 C	220000	pg/g	EPA-14 1668
PCB 11 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 12 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 13 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 15 (BZ)	4200000	220000	pg/g	EPA-14 1668
PCB 16 (BZ)	5300000 C	2200000	pg/g	EPA-14 1668
PCB 17 (BZ)	3900000	220000	pg/g	EPA-14 1668
PCB 18 (BZ)	9400000	220000	pg/g	EPA-14 1668
PCB 19 (BZ)	1300000	220000	pg/g	EPA-14 1668
PCB 20 (BZ)	4000000 C	2200000	pg/g	EPA-14 1668
PCB 21 (BZ)	4000000 C	2200000	pg/g	EPA-14 1668
PCB 22 (BZ)	5100000	2200000	pg/g	EPA-14 1668
PCB 23 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 24 (BZ)	1100000 C	220000	pg/g	EPA-14 1668
PCB 25 (BZ)	960000	220000	pg/g	EPA-14 1668
PCB 26 (BZ)	2700000	220000	pg/g	EPA-14 1668
PCB 27 (BZ)	1100000 C	220000	pg/g	EPA-14 1668
PCB 28 (BZ)	14000000	220000	pg/g	EPA-14 1668
PCB 29 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 30 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 31 (BZ)	10000000	220000	pg/g	EPA-14 1668
PCB 32 (BZ)	5300000 C	2200000	pg/g	EPA-14 1668
PCB 33 (BZ)	4000000 C	2200000	pg/g	EPA-14 1668
PCB 34 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 35 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 36 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 37 (BZ)	4800000	220000	pg/g	EPA-14 1668
PCB 38 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 39 (BZ)	ND	220000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-4

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-005 Work Order #...: GG4111AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	2400000	220000	pg/g	EPA-14 1668
PCB 41 (BZ)	11000000 C	2200000	pg/g	EPA-14 1668
PCB 42 (BZ)	5000000	220000	pg/g	EPA-14 1668
PCB 43 (BZ)	14000000 C	2200000	pg/g	EPA-14 1668
PCB 44 (BZ)	17000000	220000	pg/g	EPA-14 1668
PCB 45 (BZ)	3800000	220000	pg/g	EPA-14 1668
PCB 46 (BZ)	1500000	220000	pg/g	EPA-14 1668
PCB 47 (BZ)	5500000 C	220000	pg/g	EPA-14 1668
PCB 48 (BZ)	5500000 C	220000	pg/g	EPA-14 1668
PCB 49 (BZ)	14000000 C	220000	pg/g	EPA-14 1668
PCB 50 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 51 (BZ)	1000000	220000	pg/g	EPA-14 1668
PCB 52 (BZ)	29000000 C,E	220000	pg/g	EPA-14 1668
PCB 53 (BZ)	3100000	220000	pg/g	EPA-14 1668
PCB 54 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 55 (BZ)	290000	220000	pg/g	EPA-14 1668
PCB 56 (BZ)	8900000 C	220000	pg/g	EPA-14 1668
PCB 57 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 58 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 59 (BZ)	1400000	220000	pg/g	EPA-14 1668
PCB 60 (BZ)	8900000 C	220000	pg/g	EPA-14 1668
PCB 61 (BZ)	6000000 C	220000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 63 (BZ)	420000	220000	pg/g	EPA-14 1668
PCB 64 (BZ)	11000000 C	2200000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 66 (BZ)	6300000 C	220000	pg/g	EPA-14 1668
PCB 67 (BZ)	440000	220000	pg/g	EPA-14 1668
PCB 68 (BZ)	11000000 C	2200000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 70 (BZ)	16000000 C	220000	pg/g	EPA-14 1668
PCB 71 (BZ)	4100000	220000	pg/g	EPA-14 1668
PCB 72 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 73 (BZ)	29000000 C,E	220000	pg/g	EPA-14 1668
PCB 74 (BZ)	6000000 C	220000	pg/g	EPA-14 1668
PCB 75 (BZ)	5500000 C	220000	pg/g	EPA-14 1668
PCB 76 (BZ)	6300000 C	220000	pg/g	EPA-14 1668
PCB 77 (BZ)	ND G	990000	pg/g	EPA-14 1668
PCB 78 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 79 (BZ)	250000	220000	pg/g	EPA-14 1668
PCB 80 (BZ)	6300000 C	220000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND G	760000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-4

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-005 Work Order #...: GG4111AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	2300000	220000	pg/g	EPA-14 1668
PCB 83 (BZ)	800000 C	220000	pg/g	EPA-14 1668
PCB 84 (BZ)	5200000	220000	pg/g	EPA-14 1668
PCB 85 (BZ)	2300000 C	220000	pg/g	EPA-14 1668
PCB 86 (BZ)	15000000 C	220000	pg/g	EPA-14 1668
PCB 87 (BZ)	15000000 C	220000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 89 (BZ)	13000000 C	220000	pg/g	EPA-14 1668
PCB 90 (BZ)	13000000 C	220000	pg/g	EPA-14 1668
PCB 91 (BZ)	2200000	220000	pg/g	EPA-14 1668
PCB 92 (BZ)	3800000	220000	pg/g	EPA-14 1668
PCB 93 (BZ)	16000000 C	220000	pg/g	EPA-14 1668
PCB 94 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 95 (BZ)	16000000 C	220000	pg/g	EPA-14 1668
PCB 96 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 97 (BZ)	15000000 C	220000	pg/g	EPA-14 1668
PCB 98 (BZ)	310000 C	220000	pg/g	EPA-14 1668
PCB 99 (BZ)	7300000	220000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 101 (BZ)	13000000 C	220000	pg/g	EPA-14 1668
PCB 102 (BZ)	310000 C	220000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 105 (BZ)	4900000 C	22000	pg/g	EPA-14 1668
PCB 106 (BZ)	11000000 C	220000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	970000 C	220000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	970000 C	220000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	800000 C	220000	pg/g	EPA-14 1668
PCB 110 (BZ)	19000000	220000	pg/g	EPA-14 1668
PCB 111 (BZ)	15000000 C	220000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 114 (BZ)	250000	22000	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 117 (BZ)	15000000 C	220000	pg/g	EPA-14 1668
PCB 118 (BZ)	11000000 C	22000	pg/g	EPA-14 1668
PCB 119 (BZ)	220000	220000	pg/g	EPA-14 1668
PCB 120 (BZ)	2300000 C	220000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 122 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND G	570000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-4

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-005 Work Order #...: GG4111AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	820000	220000	pg/g	EPA-14 1668
PCB 125 (BZ)	15000000 C	220000	pg/g	EPA-14 1668
PCB 126 (BZ)	130000 JA	22000	pg/g	EPA-14 1668
PCB 127 (BZ)	4900000 C	220000	pg/g	EPA-14 1668
PCB 128 (BZ)	3000000	220000	pg/g	EPA-14 1668
PCB 129 (BZ)	910000	220000	pg/g	EPA-14 1668
PCB 130 (BZ)	1100000	220000	pg/g	EPA-14 1668
PCB 131 (BZ)	270000 C	220000	pg/g	EPA-14 1668
PCB 132 (BZ)	4800000 C	220000	pg/g	EPA-14 1668
PCB 133 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 134 (BZ)	980000	220000	pg/g	EPA-14 1668
PCB 135 (BZ)	2200000 C	220000	pg/g	EPA-14 1668
PCB 136 (BZ)	1900000	220000	pg/g	EPA-14 1668
PCB 137 (BZ)	840000	220000	pg/g	EPA-14 1668
PCB 138 (BZ)	13000000 C	220000	pg/g	EPA-14 1668
PCB 139 (BZ)	9800000 C	220000	pg/g	EPA-14 1668
PCB 140 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 141 (BZ)	2500000	220000	pg/g	EPA-14 1668
PCB 142 (BZ)	270000 C	220000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 144 (BZ)	2200000 C	220000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 146 (BZ)	1500000	220000	pg/g	EPA-14 1668
PCB 147 (BZ)	330000	220000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 149 (BZ)	9800000 C	220000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 151 (BZ)	2000000	220000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 153 (BZ)	8200000	220000	pg/g	EPA-14 1668
PCB 154 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 156 (BZ)	1400000	22000	pg/g	EPA-14 1668
PCB 157 (BZ)	310000	22000	pg/g	EPA-14 1668
PCB 158 (BZ)	1800000 C	220000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 160 (BZ)	1800000 C	220000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 162 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 163 (BZ)	13000000 C	220000	pg/g	EPA-14 1668
PCB 164 (BZ)	13000000 C	220000	pg/g	EPA-14 1668
PCB 165 (BZ)	270000 C	220000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-4

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-005 Work Order #...: GG4111AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 167 (BZ)	340000	22000	pg/g	EPA-14 1668
PCB 168 (BZ)	4800000 C	220000	pg/g	EPA-14 1668
PCB 169 (BZ)	ND	22000	pg/g	EPA-14 1668
PCB 170 (BZ)	1300000 C	22000	pg/g	EPA-14 1668
PCB 171 (BZ)	570000	220000	pg/g	EPA-14 1668
PCB 172 (BZ)	230000 C	220000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 174 (BZ)	2100000	220000	pg/g	EPA-14 1668
PCB 175 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 176 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 177 (BZ)	830000	220000	pg/g	EPA-14 1668
PCB 178 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 179 (BZ)	380000	220000	pg/g	EPA-14 1668
PCB 180 (BZ)	1900000	22000	pg/g	EPA-14 1668
PCB 181 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 182 (BZ)	820000 C	220000	pg/g	EPA-14 1668
PCB 183 (BZ)	800000	220000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 185 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 187 (BZ)	820000 C	220000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 189 (BZ)	62000	22000	pg/g	EPA-14 1668
PCB 190 (BZ)	1300000 C	220000	pg/g	EPA-14 1668
PCB 191 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 192 (BZ)	230000 C	220000	pg/g	EPA-14 1668
PCB 193 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 194 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 195 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 196 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	220000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	220000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	220000	pg/g	EPA-14 1668
PCB 202 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 203 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 206 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	220000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-4

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-005 Work Order #...: GG4111AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 209 (BZ)	ND	220000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	82	(25 - 150)
13C12-PCB 15	92	(25 - 150)
13C12-PCB 28	69	(25 - 150)
13C12-PCB 77	70	(25 - 150)
13C12-PCB 81	64	(25 - 150)
13C12-PCB 118	110	(25 - 150)
13C12-PCB 114	110	(25 - 150)
13C12-PCB 105	109	(25 - 150)
13C12-PCB 126	107	(25 - 150)
13C12-PCB 167	122	(25 - 150)
13C12-PCB 156	134	(25 - 150)
13C12-PCB 169	107	(25 - 150)
13C12-PCB 180	125	(25 - 150)
13C12-PCB 170	124	(25 - 150)
13C12-PCB 189	126	(25 - 150)
13C12-PCB 194	119	(25 - 150)
13C12-PCB 208	117	(25 - 150)
13C12-PCB 209	95	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

C Co-eluting isomer.

E Estimated result. Result concentration exceeds the calibration range.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

JA The analyte was positively identified, but the quantitation is an estimate.

STL BUFFALO

Client Sample ID: ESTP-5

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-006 Work Order #...: GG4131AC Matrix.....: SOLID
Date Sampled...: 05/17/04 Date Received..: 05/25/04
Prep Date.....: 05/28/04 Analysis Date..: 06/04/04
Prep Batch #...: 4149235
Dilution Factor: 10000

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 2 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 3 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 4 (BZ)	660000 C	220000	pg/g	EPA-14 1668
PCB 5 (BZ)	150000 C	220000	pg/g	EPA-14 1668
PCB 6 (BZ)	340000	220000	pg/g	EPA-14 1668
PCB 7 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 8 (BZ)	150000 C	220000	pg/g	EPA-14 1668
PCB 9 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 10 (BZ)	660000 C	220000	pg/g	EPA-14 1668
PCB 11 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 12 (BZ)	380000 C	220000	pg/g	EPA-14 1668
PCB 13 (BZ)	380000 C	220000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 15 (BZ)	3300000	220000	pg/g	EPA-14 1668
PCB 16 (BZ)	8400000 C	220000	pg/g	EPA-14 1668
PCB 17 (BZ)	2700000	220000	pg/g	EPA-14 1668
PCB 18 (BZ)	1700000	220000	pg/g	EPA-14 1668
PCB 19 (BZ)	2700000	220000	pg/g	EPA-14 1668
PCB 20 (BZ)	3700000 C	220000	pg/g	EPA-14 1668
PCB 21 (BZ)	3700000 C	220000	pg/g	EPA-14 1668
PCB 22 (BZ)	11000000	220000	pg/g	EPA-14 1668
PCB 23 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 24 (BZ)	2400000 C	220000	pg/g	EPA-14 1668
PCB 25 (BZ)	2000000	220000	pg/g	EPA-14 1668
PCB 26 (BZ)	3800000	220000	pg/g	EPA-14 1668
PCB 27 (BZ)	2400000 C	220000	pg/g	EPA-14 1668
PCB 28 (BZ)	23000000 JA,E	220000	pg/g	EPA-14 1668
PCB 29 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 30 (BZ)	15000	220000	pg/g	EPA-14 1668
PCB 31 (BZ)	15000000	220000	pg/g	EPA-14 1668
PCB 32 (BZ)	8400000 C	220000	pg/g	EPA-14 1668
PCB 33 (BZ)	3700000 C	220000	pg/g	EPA-14 1668
PCB 34 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 35 (BZ)	250000	220000	pg/g	EPA-14 1668
PCB 36 (BZ)	460000	220000	pg/g	EPA-14 1668
PCB 37 (BZ)	9000000	220000	pg/g	EPA-14 1668
PCB 38 (BZ)	290000	220000	pg/g	EPA-14 1668
PCB 39 (BZ)	ND	220000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-5

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-006 Work Order #...: GG4131AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	4900000	220000	pg/g	EPA-14 1668
PCB 41 (BZ)	29000000 C,E	220000	pg/g	EPA-14 1668
PCB 42 (BZ)	16000000	220000	pg/g	EPA-14 1668
PCB 43 (BZ)	34000000 C,E	220000	pg/g	EPA-14 1668
PCB 44 (BZ)	33000000	220000	pg/g	EPA-14 1668
PCB 45 (BZ)	10000000	220000	pg/g	EPA-14 1668
PCB 46 (BZ)	4200000	220000	pg/g	EPA-14 1668
PCB 47 (BZ)	14000000 C	220000	pg/g	EPA-14 1668
PCB 48 (BZ)	14000000 C	220000	pg/g	EPA-14 1668
PCB 49 (BZ)	34000000 C,E	220000	pg/g	EPA-14 1668
PCB 50 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 51 (BZ)	2800000	220000	pg/g	EPA-14 1668
PCB 52 (BZ)	34000000 C	220000	pg/g	EPA-14 1668
PCB 53 (BZ)	8100000	220000	pg/g	EPA-14 1668
PCB 54 (BZ)	120000	220000	pg/g	EPA-14 1668
PCB 55 (BZ)	720000	220000	pg/g	EPA-14 1668
PCB 56 (BZ)	23000000 C	220000	pg/g	EPA-14 1668
PCB 57 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 58 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 59 (BZ)	3500000	220000	pg/g	EPA-14 1668
PCB 60 (BZ)	23000000 C	220000	pg/g	EPA-14 1668
PCB 61 (BZ)	14000000 C	220000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 63 (BZ)	1100000	220000	pg/g	EPA-14 1668
PCB 64 (BZ)	29000000 C,E	220000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 66 (BZ)	15000000 C	220000	pg/g	EPA-14 1668
PCB 67 (BZ)	1100000	220000	pg/g	EPA-14 1668
PCB 68 (BZ)	29000000 C,E	220000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 70 (BZ)	21000000	220000	pg/g	EPA-14 1668
PCB 71 (BZ)	11000000	220000	pg/g	EPA-14 1668
PCB 72 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 73 (BZ)	34000000 C	220000	pg/g	EPA-14 1668
PCB 74 (BZ)	14000000 C	220000	pg/g	EPA-14 1668
PCB 75 (BZ)	14000000 C	220000	pg/g	EPA-14 1668
PCB 76 (BZ)	15000000 C	220000	pg/g	EPA-14 1668
PCB 77 (BZ)	2000000 JA	220000	pg/g	EPA-14 1668
PCB 78 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 79 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 80 (BZ)	15000000 C	220000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND G	320000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-5

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-006 Work Order #...: GG4131AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	1600000	220000	pg/g	EPA-14 1668
PCB 83 (BZ)	400000 C	220000	pg/g	EPA-14 1668
PCB 84 (BZ)	2500000	220000	pg/g	EPA-14 1668
PCB 85 (BZ)	1600000 C	220000	pg/g	EPA-14 1668
PCB 86 (BZ)	6200000 C	220000	pg/g	EPA-14 1668
PCB 87 (BZ)	6200000 C	220000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 89 (BZ)	3500000 C	220000	pg/g	EPA-14 1668
PCB 90 (BZ)	3500000 C	220000	pg/g	EPA-14 1668
PCB 91 (BZ)	1300000	220000	pg/g	EPA-14 1668
PCB 92 (BZ)	1000000	220000	pg/g	EPA-14 1668
PCB 93 (BZ)	5300000 C	220000	pg/g	EPA-14 1668
PCB 94 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 95 (BZ)	5300000 C	220000	pg/g	EPA-14 1668
PCB 96 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 97 (BZ)	6200000 C	220000	pg/g	EPA-14 1668
PCB 98 (BZ)	450000 C	220000	pg/g	EPA-14 1668
PCB 99 (BZ)	3500000	220000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 101 (BZ)	3500000 C	220000	pg/g	EPA-14 1668
PCB 102 (BZ)	450000 C	220000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 105 (BZ)	2300000 C	22000	pg/g	EPA-14 1668
PCB 106 (BZ)	3400000 C	220000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	410000 C	220000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	410000 C	220000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	400000 C	220000	pg/g	EPA-14 1668
PCB 110 (BZ)	5500000	220000	pg/g	EPA-14 1668
PCB 111 (BZ)	6200000 C	220000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 114 (BZ)	150000	22000	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 117 (BZ)	6200000 C	220000	pg/g	EPA-14 1668
PCB 118 (BZ)	3400000 C	22000	pg/g	EPA-14 1668
PCB 119 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 120 (BZ)	1600000 C	220000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 122 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND G	150000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-5

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-006 Work Order #...: GG4131AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	230000	220000	pg/g	EPA-14 1668
PCB 125 (BZ)	6200000 C	220000	pg/g	EPA-14 1668
PCB 126 (BZ)	40000	22000	pg/g	EPA-14 1668
PCB 127 (BZ)	2300000 C	220000	pg/g	EPA-14 1668
PCB 128 (BZ)	330000	220000	pg/g	EPA-14 1668
PCB 129 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 130 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 131 (BZ)	ND C	220000	pg/g	EPA-14 1668
PCB 132 (BZ)	500000 C	220000	pg/g	EPA-14 1668
PCB 133 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 134 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 135 (BZ)	230000 C	220000	pg/g	EPA-14 1668
PCB 136 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 137 (BZ)	93000	220000	pg/g	EPA-14 1668
PCB 138 (BZ)	1300000 C	220000	pg/g	EPA-14 1668
PCB 139 (BZ)	1000000 C	220000	pg/g	EPA-14 1668
PCB 140 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 141 (BZ)	270000	220000	pg/g	EPA-14 1668
PCB 142 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 144 (BZ)	230000 C	220000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 146 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 147 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 149 (BZ)	1000000 C	220000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 151 (BZ)	230000	220000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 153 (BZ)	850000	220000	pg/g	EPA-14 1668
PCB 154 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 156 (BZ)	150000	22000	pg/g	EPA-14 1668
PCB 157 (BZ)	36000	22000	pg/g	EPA-14 1668
PCB 158 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 160 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 162 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 163 (BZ)	1300000 C	220000	pg/g	EPA-14 1668
PCB 164 (BZ)	1300000 C	220000	pg/g	EPA-14 1668
PCB 165 (BZ)	ND C	220000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: ESTP-5

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-006 Work Order #...: GG4131AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 167 (BZ)	**38000**	**22000**	**pg/g**	**EPA-14 1668**
PCB 168 (BZ)	**500000 C**	**220000**	**pg/g**	**EPA-14 1668**
PCB 169 (BZ)	ND	22000	pg/g	EPA-14 1668
PCB 170 (BZ)	**160000 C**	**22000**	**pg/g**	**EPA-14 1668**
PCB 171 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 172 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 174 (BZ)	**330000**	**220000**	**pg/g**	**EPA-14 1668**
PCB 175 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 176 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 177 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 178 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 179 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 180 (BZ)	**290000**	**22000**	**pg/g**	**EPA-14 1668**
PCB 181 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 182 (BZ)	**160000 C**	**220000**	**pg/g**	**EPA-14 1668**
PCB 183 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 185 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 187 (BZ)	**160000 C**	**220000**	**pg/g**	**EPA-14 1668**
PCB 188 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 189 (BZ)	**6100**	**22000**	**pg/g**	**EPA-14 1668**
PCB 190 (BZ)	**160000 C**	**220000**	**pg/g**	**EPA-14 1668**
PCB 191 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 192 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 193 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 194 (BZ)	**48000**	**220000**	**pg/g**	**EPA-14 1668**
PCB 195 (BZ)	**16000**	**220000**	**pg/g**	**EPA-14 1668**
PCB 196 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	220000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	220000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	220000	pg/g	EPA-14 1668
PCB 202 (BZ)	**17000**	**220000**	**pg/g**	**EPA-14 1668**
PCB 203 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	220000	pg/g	EPA-14 1668
PCB 206 (BZ)	**36000**	**220000**	**pg/g**	**EPA-14 1668**
PCB 207 (BZ)	ND	220000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: RSTP-5

Trace Level Organic Compounds

Lot-Sample #...: G4E260275-006 Work Order #...: GG4131AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	15000	220000	pg/g	EPA-14 1668
PCB 209 (BZ)	8000	220000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	78	(25 - 150)
13C12-PCB 15	83	(25 - 150)
13C12-PCB 28	59	(25 - 150)
13C12-PCB 77	82	(25 - 150)
13C12-PCB 81	59	(25 - 150)
13C12-PCB 118	102	(25 - 150)
13C12-PCB 114	99	(25 - 150)
13C12-PCB 105	100	(25 - 150)
13C12-PCB 126	101	(25 - 150)
13C12-PCB 167	113	(25 - 150)
13C12-PCB 156	124	(25 - 150)
13C12-PCB 169	101	(25 - 150)
13C12-PCB 180	117	(25 - 150)
13C12-PCB 170	114	(25 - 150)
13C12-PCB 189	119	(25 - 150)
13C12-PCB 194	111	(25 - 150)
13C12-PCB 208	112	(25 - 150)
13C12-PCB 209	93	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

C Co-eluting isomer.

JA The analyte was positively identified, but the quantitation is an estimate.

E Estimated result. Result concentration exceeds the calibration range.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

QC DATA ASSOCIATION SUMMARY

G4E260275

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	ASTM D 2216-90		4148428	
	SOLID	EPA-14 1668		4149235	
002	SOLID	ASTM D 2216-90		4148428	
	SOLID	EPA-14 1668		4149235	
003	SOLID	ASTM D 2216-90		4148428	
	SOLID	EPA-14 1668		4149235	
004	SOLID	ASTM D 2216-90		4148428	
	SOLID	EPA-14 1668		4149235	
005	SOLID	ASTM D 2216-90		4148428	
	SOLID	EPA-14 1668		4149235	
006	SOLID	ASTM D 2216-90		4148428	
	SOLID	EPA-14 1668		4149235	

Test Samples

1\219

SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A04-6466,A04-6469,A04-7515

STL Project#: NY3A9104.1
SDG#: 6466
Site Name: BB&L - Fletcher Paint
Task: Fletcher Paint - Treatability Samples

Paul Sadler
Focus Environmental, Inc.
9050 Executive Pk Dr, SteA-202
Knoxville, TN 37923

CC: Dennis Capria

STL Buffalo

for Candace L. Fox
Project Manager

08/16/2004

STL Buffalo
Current Certifications

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A4646907	HFE-900	07/08/2004		07/09/2004	10:00
A4646908	HFM-900	07/08/2004		07/09/2004	10:00
A4646602	PSE	07/08/2004		07/09/2004	10:00
A4646902	PSE	07/08/2004		07/09/2004	10:00
A4751502	PSE	07/08/2004		07/09/2004	10:00
A4646603	PSE-D	07/08/2004		07/09/2004	10:00
A4646903	PSE-D	07/08/2004		07/09/2004	10:00
A4751503	PSE-D	07/08/2004		07/09/2004	10:00
A4646601	PSM	07/08/2004		07/09/2004	10:00
A4646901	PSM	07/08/2004		07/09/2004	10:00
A4751501	PSM	07/08/2004		07/09/2004	10:00
A4646606	TST-900	07/08/2004		07/09/2004	10:00
A4646906	TST-900	07/08/2004		07/09/2004	10:00
A4751506	TST-900	07/08/2004		07/09/2004	10:00
A4646604	TSW-700	07/08/2004		07/09/2004	10:00
A4646904	TSW-700	07/08/2004		07/09/2004	10:00
A4751504	TSW-700	07/08/2004		07/09/2004	10:00
A4646605	TSW-900	07/08/2004		07/09/2004	10:00
A4646905	TSW-900	07/08/2004		07/09/2004	10:00
A4751505	TSW-900	07/08/2004		07/09/2004	10:00
A4646607	WE-700	07/08/2004		07/09/2004	10:00
A4646608	WE-900	07/08/2004		07/09/2004	10:00
A4646609	WM-900	07/08/2004		07/09/2004	10:00

NON-CONFORMANCE SUMMARY

Job#: A04-6466,A04-6469,A04-7515

STL Project#: NY3A9104.1
SDG#: 6466
Site Name: BB&L - Fletcher Paint

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-6466
Sample Cooler(s) were received at the following temperature(s); 5.4 °C
All water TOC samples were poured off in SC into prepreserved with HCL 40mlVs, ESS lot #052404.

There is limited volume on all water SVOA volumes.

A04-6469
Sample Cooler(s) were received at the following temperature(s); 5.4 °C
CAUTION*******
All samples may have PCB concentrations as high as 30,000mg/kg.
****

PM needs to confirm the correct sample dates/times as they were not available at login.

A04-7515
Sample Cooler(s) were received at the following temperature(s); 5.4 °C
CAUTION*******
All samples may have PCB concentrations as high as 30,000mg/kg.
****

PM needs to confirm the correct sample dates/times as they were not available at login.

GC/MS Volatile Data

The analyte Bromomethane was detected in the Method Blank A4B1321204 (VBLK89) at a

level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The recovery of the surrogate p-Bromomfluorobenzene and all the Internal Standards in sample (TSW-900) exceeded quality control limits. The sample was reanalyzed with similar results, thus indicating a potential matrix effect. Both set of results are reported in this data package.

Sample PSM DL was analyzed using medium level techniques due to high concentrations of target analytes.

GC/MS Semivolatile Data

The samples WE-700, WE-900, and WM-900 were extracted outside of holding time.

The recovery of internal standard Phenanthrene-D12 exceeded quality control limits in samples PSM, PSE, and PSE-D due to visible chromatographic matrix interference. All samples were reanalyzed using dilutions. The internal standard recovery for Phenanthrene-D12 was corrected by dilution in samples PSE DL and PSE-D DL but remained elevated in sample PSM DL. All compound results associated with the internal standard should be considered estimated.

Due to visible chromatographic matrix interference, the recoveries of internal standards (IS) Chrysene-D12 and Perylene-D12 fell below quality control limits in samples PSE and PSE-D. The calculated values for all compounds associated with these falsely depressed internal standards should be considered biased high. The samples were re-injected at a dilution with acceptable IS recovery results. Because the compound concentrations were originally biased high due to the depressed IS, most compounds provided "non-detect" results in the dilutions.

The recovery of internal standard Phenanthrene-D12 exceeded quality control limits in samples WE-700, WE-900, and WM-900. Since detections for analytes associated with this internal standard would be considered estimated and there were no detections, the data is not affected.

The recovery of surrogate 2,4,6-Tribromophenol was below control limits for samples PSM, PSM DL, PSE-D, WE-700, WE-900, and WM-900. Based on US EPA CLP National Functional Guidelines for Data Review, one surrogate per fraction (AP/BN) is allowed to exceed quality control limits. No corrective action was required.

The recovery of surrogates 2,4,6-Tribromophenol and p-Terphenyl-d14 were below control limits for sample PSE. Based on US EPA CLP National Functional Guidelines for Data Review, one surrogate per fraction (AP/BN) is allowed to exceed quality control limits. No corrective action was required.

GC Extractable Data

PCB Congeners were subcontracted to STL Sacramento. The complete subcontract report is included in this report as Appendix A. Comments pertaining to PCB Congeners may be found within the comment summary of the subcontract report.

For method 8082, sample PSM required dilution of 100,000X prior to analysis due to high concentrations of target analytes. The surrogates were diluted out of this sample due to the dilution of the extract. Due to the software limitations, the dilution is listed as 10,000X with an injection volume of (0.1ul) instead of (1.0ul) to correctly calculate the final concentration.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

for Lisa Shaffer

Candace L. Fox
Project Manager

8/17/2004
Date

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
PSM DL	A4646601DL	8260	4.00	008
PSM DL	A4646601DL	8270	20.00	005
PSE DL	A4646602DL	8270	20.00	005
PSE-D DL	A4646603DL	8270	20.00	005
WE-900 DL	A4646608DL	8270	10.00	008
WM-900	A4646609	8270	10.00	008
WM-900	A4646609	Total Organic Carbon	10.00	008
WM-900 DL	A4646609DL	8270	50.00	008
PSM	A4751501	8082	10000.00	008
PSE	A4751502	8082	1000.00	008
PSE-D	A4751503	8082	2000.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected at or above the reporting limit.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the associated blank, as well as in the sample.

E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D This flag identifies all compounds identified in an analysis at the secondary dilution factor.

N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.

P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".

A This flag indicates that a TIC is a suspected aldol-condensation product.

1 Indicates coelution.

* Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected at or above the reporting limit.

J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

N Indicates spike sample recovery is not within the quality control limits.

K Indicates the post digestion spike recovery is not within the quality control limits.

S Indicates value determined by the Method of Standard Addition.

M Indicates duplicate injection results exceeded quality control limits.

W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

E Indicates a value estimated or not reported due to the presence of interferences.

H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.

* Indicates analysis is not within the quality control limits.

+ Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Date: 08/16/2004
Time: 15:35:19

Prepared Soil Samples VOC

BB&L - Fletcher Paint
Fletcher Paint - Treatability Samples
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		PSE		PSE-D		PSM		PSM DL	
		Elm Street		Elm Street - Duplicate		Mill Street		Mill Street Dilution	
Job No	Lab ID	A04-6466	A4646602	A04-6466	A4646603	A04-6466	A4646601	A04-6466	A4646601DL
Sample Date		07/08/2004		07/08/2004		07/08/2004		07/08/2004	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	33	ND	32	ND	160	ND	17000
Benzene	UG/KG	ND	11	ND	11	ND	52	ND	5800
Bromodichloromethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
Bromoform	UG/KG	ND	11	ND	11	ND	52	ND	5800
Bromomethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
2-Butanone	UG/KG	ND	11	ND	11	ND	52	ND	5800
Carbon Disulfide	UG/KG	ND	11	ND	11	18 J	52	ND	5800
Carbon Tetrachloride	UG/KG	ND	11	ND	11	ND	52	ND	5800
Chlorobenzene	UG/KG	ND	11	ND	11	ND	52	ND	5800
Chloroethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
Chloroform	UG/KG	ND	11	ND	11	ND	52	ND	5800
Chloromethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
Cyclohexane	UG/KG	ND	11	ND	11	ND	52	ND	5800
1,2-Dibromoethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
Dibromochloromethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
1,2-Dibromo-3-chloropropane	UG/KG	ND	11	ND	11	ND	52	ND	5800
1,2-Dichlorobenzene	UG/KG	ND	11	ND	11	12 J	52	ND	5800
1,3-Dichlorobenzene	UG/KG	ND	11	ND	11	15 J	52	ND	5800
1,4-Dichlorobenzene	UG/KG	ND	11	ND	11	29 J	52	760 DJ	5800
Dichlorodifluoromethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
1,1-Dichloroethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
1,2-Dichloroethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
1,1-Dichloroethene	UG/KG	ND	11	ND	11	ND	52	ND	5800
cis-1,2-Dichloroethene	UG/KG	ND	11	ND	11	48 J	52	4000 DJ	5800
trans-1,2-Dichloroethene	UG/KG	ND	11	ND	11	ND	52	ND	5800
1,2-Dichloropropane	UG/KG	ND	11	ND	11	ND	52	ND	5800
cis-1,3-Dichloropropene	UG/KG	ND	11	ND	11	ND	52	ND	5800
trans-1,3-Dichloropropene	UG/KG	ND	11	ND	11	ND	52	ND	5800
Ethylbenzene	UG/KG	1 J	11	1 J	11	13 J	52	ND	5800
2-Hexanone	UG/KG	ND	11	ND	11	ND	52	ND	5800
Isopropylbenzene	UG/KG	1 J	11	2 J	11	ND	52	ND	5800
Methyl acetate	UG/KG	ND	11	ND	11	ND	52	ND	5800
Methylcyclohexane	UG/KG	ND	11	ND	11	ND	52	ND	5800
Methylene chloride	UG/KG	16	11	15	11	49 J	52	ND	5800
4-Methyl-2-pentanone	UG/KG	ND	11	ND	11	ND	52	ND	5800
Methyl tert butyl ether	UG/KG	ND	11	ND	11	ND	52	ND	5800
Styrene	UG/KG	ND	11	ND	11	ND	52	ND	5800
1,1,2,2-Tetrachloroethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
Tetrachloroethene	UG/KG	ND	11	ND	11	ND	52	ND	5800
Toluene	UG/KG	ND	11	ND	11	ND	52	ND	5800
1,2,4-Trichlorobenzene	UG/KG	5 J	11	3 J	11	2300 E	52	37000 D	5800
1,1,1-Trichloroethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
1,1,2-Trichloroethane	UG/KG	ND	11	ND	11	ND	52	ND	5800

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 08/16/
Time: 15:35:

BB&L - F er Paint
Fletcher Paint - atability Samples
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	PSE A04-6466 07/08/2004	A4646602	PSE-D A04-6466 07/08/2004	A4646603	PSM A04-6466 07/08/2004	A4646601	PSM DL A04-6466 07/08/2004	A4646601DL
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	11	ND	11	ND	52	ND	5800
Trichlorofluoromethane	UG/KG	ND	11	ND	11	ND	52	ND	5800
Trichloroethene	UG/KG	13	11	13	11	150	52	9600 D	5800
Vinyl chloride	UG/KG	ND	11	ND	11	ND	52	ND	5800
Total Xylenes	UG/KG	58	11	58	11	150	52	ND	5800
IS/SURROGATE(S)									
Chlorobenzene-D5	%	93	50-200	91	50-200	79	50-200	98	50-200
1,4-Difluorobenzene	%	91	50-200	92	50-200	80	50-200	95	50-200
1,4-Dichlorobenzene-D4	%	91	50-200	78	50-200	68	50-200	96	50-200
Toluene-D8	%	82	71-125	84	71-125	89	71-125	101	71-125
p-Bromofluorobenzene	%	80	68-124	76	68-124	83	68-124	103	68-124
1,2-Dichloroethane-D4	%	86	61-136	82	61-136	94	61-136	94	61-136

12\219

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 08/16/2004
Time: 15:35:19

Treated Soil - VOC

BB&L - Fletcher Paint
Fletcher Paint - Treatability Samples
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

		Elm Street - 700°F		Elm Street - 900		Elm Street - 900 - Replicate Injection			
Client ID		TSW-700		TSW-900		TSW-900			
Job No	Lab ID	A04-6466	A4646604	A04-6466	A4646605	A04-6466	A4646605RI		
Sample Date		07/08/2004		07/08/2004		07/08/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	240	29	160	30	71	28	NA	
Benzene	UG/KG	ND	10	8 J	10	ND	9	NA	
Bromodichloromethane	UG/KG	ND	10	ND	10	ND	9	NA	
Bromoform	UG/KG	ND	10	ND	10	ND	9	NA	
Bromomethane	UG/KG	ND	10	ND	10	ND	9	NA	
2-Butanone	UG/KG	10	10	ND	10	ND	9	NA	
Carbon Disulfide	UG/KG	ND	10	ND	10	ND	9	NA	
Carbon Tetrachloride	UG/KG	ND	10	ND	10	ND	9	NA	
Chlorobenzene	UG/KG	ND	10	ND	10	ND	9	NA	
Chloroethane	UG/KG	ND	10	ND	10	ND	9	NA	
Chloroform	UG/KG	ND	10	ND	10	ND	9	NA	
Chloromethane	UG/KG	ND	10	ND	10	ND	9	NA	
Cyclohexane	UG/KG	ND	10	ND	10	ND	9	NA	
1,2-Dibromoethane	UG/KG	ND	10	ND	10	ND	9	NA	
Dibromochloromethane	UG/KG	ND	10	ND	10	ND	9	NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	10	ND	10	ND	9	NA	
1,2-Dichlorobenzene	UG/KG	ND	10	ND	10	ND	9	NA	
1,3-Dichlorobenzene	UG/KG	ND	10	ND	10	ND	9	NA	
1,4-Dichlorobenzene	UG/KG	ND	10	ND	10	ND	9	NA	
Dichlorodifluoromethane	UG/KG	84	10	17	10	84	9	NA	
1,1-Dichloroethane	UG/KG	ND	10	ND	10	ND	9	NA	
1,2-Dichloroethane	UG/KG	ND	10	ND	10	ND	9	NA	
1,1-Dichloroethene	UG/KG	ND	10	ND	10	ND	9	NA	
cis-1,2-Dichloroethene	UG/KG	ND	10	ND	10	ND	9	NA	
trans-1,2-Dichloroethene	UG/KG	ND	10	ND	10	ND	9	NA	
1,2-Dichloropropane	UG/KG	ND	10	ND	10	ND	9	NA	
cis-1,3-Dichloropropene	UG/KG	ND	10	ND	10	ND	9	NA	
trans-1,3-Dichloropropene	UG/KG	ND	10	ND	10	ND	9	NA	
Ethylbenzene	UG/KG	ND	10	ND	10	ND	9	NA	
2-Hexanone	UG/KG	ND	10	ND	10	ND	9	NA	
Isopropylbenzene	UG/KG	ND	10	ND	10	ND	9	NA	
Methyl acetate	UG/KG	ND	10	ND	10	ND	9	NA	
Methylcyclohexane	UG/KG	ND	10	ND	10	ND	9	NA	
Methylene chloride	UG/KG	28	10	20	10	11	9	NA	
4-Methyl-2-pentanone	UG/KG	ND	10	ND	10	ND	9	NA	
Methyl tert butyl ether	UG/KG	ND	10	ND	10	ND	9	NA	
Styrene	UG/KG	ND	10	ND	10	ND	9	NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	10	ND	10	ND	9	NA	
Tetrachloroethene	UG/KG	ND	10	ND	10	ND	9	NA	
Toluene	UG/KG	ND	10	ND	10	ND	9	NA	
1,2,4-Trichlorobenzene	UG/KG	4 J	10	ND	10	2 J	9	NA	
1,1,1-Trichloroethane	UG/KG	ND	10	ND	10	ND	9	NA	
1,1,2-Trichloroethane	UG/KG	ND	10	ND	10	ND	9	NA	

13\219

NA = Not Appl e ND = Not Detected

STL Buffa'

BB&L - Fl r Paint
Fletcher Paint - tability Samples
METHOD 8260 - TCL VOLATILE ORGANICS

Client ID		TSW-700		TSW-900		TSW-900			
Job No	Lab ID	A04-6466	A4646604	A04-6466	A4646605	A04-6466	A4646605RI		
Sample Date		07/08/2004		07/08/2004		07/08/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	10	ND	10	ND	9	NA	
Trichlorofluoromethane	UG/KG	2 J	10	2 J	10	1 J	9	NA	
Trichloroethene	UG/KG	ND	10	ND	10	ND	9	NA	
Vinyl chloride	UG/KG	ND	10	ND	10	ND	9	NA	
Total Xylenes	UG/KG	ND	10	ND	10	ND	9	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	77	50-200	37 *	50-200	49 *	50-200	NA	
1,4-Difluorobenzene	%	82	50-200	41 *	50-200	74	50-200	NA	
1,4-Dichlorobenzene-D4	%	55	50-200	10 *	50-200	8 *	50-200	NA	
Toluene-D8	%	87	71-125	92	71-125	116	71-125	NA	
p-Bromofluorobenzene	%	72	68-124	56 *	68-124	40 *	68-124	NA	
1,2-Dichloroethane-D4	%	87	61-136	104	61-136	91	61-136	NA	

14\219

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 08/16/2004
Time: 15:35:43

Prepared Soil Samples
SVOC

BB&L - Fletcher Paint
Fletcher Paint - Treatability Samples
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

		Elm Street		Elm Street - Dilution		Elm Street - Duplicate		Elm Street - Duplicate Dilution	
Client ID		PSE		PSE DL		PSE-D		PSE-D DL	
Job No	Lab ID	A04-6466	A4646602	A04-6466	A4646602DL	A04-6466	A4646603	A04-6466	A4646603DL
Sample Date		07/08/2004		07/08/2004		07/08/2004		07/08/2004	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Acenaphthylene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Acetophenone	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Anthracene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Atrazine	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Benzaldehyde	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Benzo(a)anthracene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Benzo(b)fluoranthene	UG/KG	7000 E	350	ND	7100	5500	350	ND	7100
Benzo(k)fluoranthene	UG/KG	4600	350	ND	7100	5000	350	ND	7100
Benzo(ghi)perylene	UG/KG	ND	350	ND	7100	6200 E	350	ND	7100
Benzo(a)pyrene	UG/KG	10000 E	350	ND	7100	8100 E	350	ND	7100
Biphenyl	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Bis(2-chloroethoxy) methane	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Bis(2-chloroethyl) ether	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Bis(2-ethylhexyl) phthalate	UG/KG	ND	350	ND	7100	ND	350	ND	7100
4-Bromophenyl phenyl ether	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Butyl benzyl phthalate	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Caprolactam	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Carbazole	UG/KG	ND	350	ND	7100	ND	350	ND	7100
4-Chloroaniline	UG/KG	ND	350	ND	7100	ND	350	ND	7100
4-Chloro-3-methylphenol	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2-Chloronaphthalene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2-Chlorophenol	UG/KG	ND	350	ND	7100	ND	350	ND	7100
4-Chlorophenyl phenyl ether	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Chrysene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Dibenzo(a,h)anthracene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Dibenzofuran	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Di-n-butyl phthalate	UG/KG	ND	350	ND	7100	ND	350	ND	7100
3,3'-Dichlorobenzidine	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2,4-Dichlorophenol	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Diethyl phthalate	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2,4-Dimethylphenol	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Dimethyl phthalate	UG/KG	ND	350	ND	7100	ND	350	ND	7100
4,6-Dinitro-2-methylphenol	UG/KG	ND	890	ND	18000	ND	890	ND	18000
2,4-Dinitrophenol	UG/KG	ND	1600	ND	32000	ND	1600	ND	31000
2,4-Dinitrotoluene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2,6-Dinitrotoluene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Di-n-octyl phthalate	UG/KG	ND	480	ND	9600	ND	480	ND	9600
Fluoranthene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Fluorene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Hexachlorobenzene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Hexachlorobutadiene	UG/KG	ND	350	ND	7100	ND	350	ND	7100

15219

NA = Not Appli· ND = Not Detected

STL Buffal

Client ID Job No Sample Date	Lab ID	PSE A04-6466 07/08/2004	A4646602	PSE DL A04-6466 07/08/2004	A4646602DL	PSE-D A04-6466 07/08/2004	A4646603	PSE-D DL A04-6466 07/08/2004	A4646603DL
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Hexachlorocyclopentadiene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Hexachloroethane	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Indeno(1,2,3-cd)pyrene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Isophorone	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2-Methylnaphthalene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2-Methylphenol	UG/KG	ND	350	ND	7100	ND	350	ND	7100
4-Methylphenol	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Naphthalene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2-Nitroaniline	UG/KG	ND	890	ND	18000	ND	890	ND	18000
3-Nitroaniline	UG/KG	ND	890	ND	18000	ND	890	ND	18000
4-Nitroaniline	UG/KG	ND	890	ND	18000	ND	890	ND	18000
Nitrobenzene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2-Nitrophenol	UG/KG	ND	350	ND	7100	ND	350	ND	7100
4-Nitrophenol	UG/KG	ND	890	ND	18000	ND	890	ND	18000
N-nitrosodiphenylamine	UG/KG	ND	350	ND	7100	ND	350	ND	7100
N-Nitroso-Di-n-propylamine	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Pentachlorophenol	UG/KG	ND	890	ND	18000	ND	890	ND	18000
Phenanthrene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Phenol	UG/KG	ND	350	ND	7100	ND	350	ND	7100
Pyrene	UG/KG	ND	350	ND	7100	ND	350	ND	7100
2,4,5-Trichlorophenol	UG/KG	ND	890	ND	18000	ND	890	ND	18000
2,4,6-Trichlorophenol	UG/KG	ND	350	ND	7100	ND	350	ND	7100
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	109	50-200	94	50-200	100	50-200	94	50-200
Naphthalene-D8	%	108	50-200	92	50-200	101	50-200	96	50-200
Acenaphthene-D10	%	92	50-200	91	50-200	87	50-200	92	50-200
Phenanthrene-D10	%	298 *	50-200	85	50-200	244 *	50-200	84	50-200
Chrysene-D12	%	3 *	50-200	75	50-200	3 *	50-200	77	50-200
Perylene-D12	%	3 *	50-200	99	50-200	4 *	50-200	101	50-200
Nitrobenzene-D5	%	81	30-127	56	30-127	80	30-127	43	30-127
2-Fluorobiphenyl	%	101	36-138	80	36-138	96	36-138	70	36-138
p-Terphenyl-d14	%	30 *	41-167	105	41-167	48	41-167	93	41-167
Phenol-D5	%	78	34-120	56	34-120	79	34-120	48	34-120
2-Fluorophenol	%	71	26-120	66	26-120	70	26-120	50	26-120
2,4,6-Tribromophenol	%	29 *	42-140	73	42-140	32 *	42-140	69	42-140

NA = Not Applicable ND = Not Detected

Date: 08/16/2004
Time: 15:35:43

Prepared Soil and Treated Soil
SVOC

BB&L - Fletcher Paint
Fletcher Paint - Treatability Samples
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

		Mill Street		Mill Street - Dilution		Mill Street - 900		Elm Street - 700	
Client ID		PSM		PSM DL		TST-900		TSW-700	
Job No	Lab ID	A04-6466	A4646601	A04-6466	A4646601DL	A04-6466	A4646606	A04-6466	A4646604
Sample Date		07/08/2004		07/08/2004		07/08/2004		07/08/2004	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	4500	380	ND	7500	ND	350	ND	320
Acenaphthylene	UG/KG	630	380	ND	7500	ND	350	ND	320
Acetophenone	UG/KG	ND	380	ND	7500	ND	350	ND	320
Anthracene	UG/KG	ND	380	ND	7500	ND	350	ND	320
Atrazine	UG/KG	ND	380	ND	7500	ND	350	ND	320
Benzaldehyde	UG/KG	ND	380	ND	7500	ND	350	71 J	320
Benzo(a)anthracene	UG/KG	2200	380	ND	7500	ND	350	ND	320
Benzo(b)fluoranthene	UG/KG	4000	380	ND	7500	ND	350	ND	320
Benzo(k)fluoranthene	UG/KG	4500	380	ND	7500	ND	350	ND	320
Benzo(ghi)perylene	UG/KG	1100	380	ND	7500	ND	350	ND	320
Benzo(a)pyrene	UG/KG	2100	380	ND	7500	ND	350	ND	320
Biphenyl	UG/KG	610	380	ND	7500	ND	350	ND	320
Bis(2-chloroethoxy) methane	UG/KG	ND	380	ND	7500	ND	350	ND	320
Bis(2-chloroethyl) ether	UG/KG	ND	380	ND	7500	ND	350	ND	320
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	380	ND	7500	ND	350	ND	320
Bis(2-ethylhexyl) phthalate	UG/KG	ND	380	ND	7500	ND	350	ND	320
4-Bromophenyl phenyl ether	UG/KG	ND	380	ND	7500	ND	350	ND	320
Butyl benzyl phthalate	UG/KG	ND	380	ND	7500	ND	350	ND	320
Caprolactam	UG/KG	ND	380	ND	7500	ND	350	ND	320
Carbazole	UG/KG	ND	380	ND	7500	ND	350	ND	320
4-Chloroaniline	UG/KG	ND	380	ND	7500	ND	350	ND	320
4-Chloro-3-methylphenol	UG/KG	ND	380	ND	7500	ND	350	ND	320
2-Chloronaphthalene	UG/KG	ND	380	ND	7500	ND	350	ND	320
2-Chlorophenol	UG/KG	ND	380	ND	7500	ND	350	ND	320
4-Chlorophenyl phenyl ether	UG/KG	ND	380	ND	7500	ND	350	ND	320
Chrysene	UG/KG	2600	380	ND	7500	ND	350	ND	320
Dibenzo(a,h)anthracene	UG/KG	440	380	ND	7500	ND	350	ND	320
Dibenzofuran	UG/KG	ND	380	ND	7500	ND	350	ND	320
Di-n-butyl phthalate	UG/KG	ND	380	ND	7500	ND	350	ND	320
3,3'-Dichlorobenzidine	UG/KG	ND	380	ND	7500	ND	350	ND	320
2,4-Dichlorophenol	UG/KG	ND	380	ND	7500	ND	350	ND	320
Diethyl phthalate	UG/KG	ND	380	ND	7500	ND	350	ND	320
2,4-Dimethylphenol	UG/KG	ND	380	ND	7500	ND	350	ND	320
Dimethyl phthalate	UG/KG	ND	380	ND	7500	ND	350	ND	320
4,6-Dinitro-2-methylphenol	UG/KG	ND	950	ND	19000	ND	880	ND	800
2,4-Dinitrophenol	UG/KG	ND	1700	ND	33000	ND	1500	ND	1400
2,4-Dinitrotoluene	UG/KG	ND	380	ND	7500	ND	350	ND	320
2,6-Dinitrotoluene	UG/KG	ND	380	ND	7500	ND	350	ND	320
Di-n-octyl phthalate	UG/KG	ND	510	ND	10000	ND	470	ND	430
Fluoranthene	UG/KG	ND	380	ND	7500	ND	350	ND	320
Fluorene	UG/KG	ND	380	ND	7500	ND	350	ND	320
Hexachlorobenzene	UG/KG	ND	380	ND	7500	ND	350	ND	320
Hexachlorobutadiene	UG/KG	ND	380	ND	7500	ND	350	ND	320

17219

NA = Not Appli ND = Not Detected

STL Buffal

Date: 08/16/2
Time: 15:35:4

BB&L - Fl er Paint
Fletcher Paint - tability Samples
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

ept: AN0326

Client ID Job No Sample Date	Lab ID	PSM A04-6466 07/08/2004	A4646601	PSM DL A04-6466 07/08/2004	A4646601DL	TST-900 A04-6466 07/08/2004	A4646606	TSW-700 A04-6466 07/08/2004	A4646604
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Hexachlorocyclopentadiene	UG/KG	ND	380	ND	7500	ND	350	ND	320
Hexachloroethane	UG/KG	ND	380	ND	7500	ND	350	ND	320
Indeno(1,2,3-cd)pyrene	UG/KG	1000	380	ND	7500	ND	350	ND	320
Isophorone	UG/KG	ND	380	ND	7500	ND	350	ND	320
2-Methylnaphthalene	UG/KG	ND	380	ND	7500	ND	350	ND	320
2-Methylphenol	UG/KG	ND	380	ND	7500	ND	350	ND	320
4-Methylphenol	UG/KG	ND	380	ND	7500	ND	350	ND	320
Naphthalene	UG/KG	130 J	380	ND	7500	ND	350	ND	320
2-Nitroaniline	UG/KG	ND	950	ND	19000	ND	880	ND	800
3-Nitroaniline	UG/KG	ND	950	ND	19000	ND	880	ND	800
4-Nitroaniline	UG/KG	ND	950	ND	19000	ND	880	ND	800
Nitrobenzene	UG/KG	ND	380	ND	7500	ND	350	ND	320
2-Nitrophenol	UG/KG	ND	380	ND	7500	ND	350	ND	320
4-Nitrophenol	UG/KG	ND	950	ND	19000	ND	880	ND	800
N-nitrosodiphenylamine	UG/KG	ND	380	ND	7500	ND	350	ND	320
N-Nitroso-Di-n-propylamine	UG/KG	ND	380	ND	7500	ND	350	ND	320
Pentachlorophenol	UG/KG	ND	950	ND	19000	ND	880	ND	800
Phenanthrene	UG/KG	ND	380	ND	7500	ND	350	ND	320
Phenol	UG/KG	ND	380	ND	7500	ND	350	ND	320
Pyrene	UG/KG	1300	380	3600 DJ	7500	ND	350	ND	320
2,4,5-Trichlorophenol	UG/KG	ND	950	ND	19000	ND	880	ND	800
2,4,6-Trichlorophenol	UG/KG	ND	380	ND	7500	ND	350	ND	320
==IS/SURROGATE(S)==									
1,4-Dichlorobenzene-D4	%	90	50-200	85	50-200	111	50-200	107	50-200
Naphthalene-D8	%	95	50-200	87	50-200	112	50-200	111	50-200
Acenaphthene-D10	%	71	50-200	86	50-200	106	50-200	104	50-200
Phenanthrene-D10	%	9990 *	50-200	486 *	50-200	95	50-200	85	50-200
Chrysene-D12	%	91	50-200	76	50-200	84	50-200	82	50-200
Perylene-D12	%	160	50-200	98	50-200	127	50-200	131	50-200
Nitrobenzene-D5	%	87	30-127	57	30-127	63	30-127	73	30-127
2-Fluorobiphenyl	%	113	36-138	84	36-138	77	36-138	89	36-138
p-Terphenyl-d14	%	44	41-167	94	41-167	110	41-167	98	41-167
Phenol-D5	%	81	34-120	54	34-120	61	34-120	76	34-120
2-Fluorophenol	%	75	26-120	60	26-120	55	26-120	67	26-120
2,4,6-Tribromophenol	%	0.8 *	42-140	12 *	42-140	94	42-140	108	42-140

18\219

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 08/16/2004
Time: 15:35:43

Treated Soil
SVOC

BB&L - Fletcher Paint
Fletcher Paint - Treatability Samples
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Elm Street-900

Client ID		TSW-900							
Job No	Lab ID	A04-6466	A4646605						
Sample Date		07/08/2004							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	320	NA		NA		NA	
Acenaphthylene	UG/KG	ND	320	NA		NA		NA	
Acetophenone	UG/KG	ND	320	NA		NA		NA	
Anthracene	UG/KG	ND	320	NA		NA		NA	
Atrazine	UG/KG	ND	320	NA		NA		NA	
Benzaldehyde	UG/KG	ND	320	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	320	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	320	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	320	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	320	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	320	NA		NA		NA	
Biphenyl	UG/KG	ND	320	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/KG	ND	320	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/KG	ND	320	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/KG	ND	320	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/KG	ND	320	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/KG	ND	320	NA		NA		NA	
Butyl benzyl phthalate	UG/KG	ND	320	NA		NA		NA	
Caprolactam	UG/KG	ND	320	NA		NA		NA	
Carbazole	UG/KG	ND	320	NA		NA		NA	
4-Chloroaniline	UG/KG	ND	320	NA		NA		NA	
4-Chloro-3-methylphenol	UG/KG	ND	320	NA		NA		NA	
2-Chloronaphthalene	UG/KG	ND	320	NA		NA		NA	
2-Chlorophenol	UG/KG	ND	320	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/KG	ND	320	NA		NA		NA	
Chrysene	UG/KG	ND	320	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	320	NA		NA		NA	
Dibenzofuran	UG/KG	ND	320	NA		NA		NA	
Di-n-butyl phthalate	UG/KG	ND	320	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/KG	ND	320	NA		NA		NA	
2,4-Dichlorophenol	UG/KG	ND	320	NA		NA		NA	
Diethyl phthalate	UG/KG	ND	320	NA		NA		NA	
2,4-Dimethylphenol	UG/KG	ND	320	NA		NA		NA	
Dimethyl phthalate	UG/KG	ND	320	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/KG	ND	810	NA		NA		NA	
2,4-Dinitrophenol	UG/KG	ND	1400	NA		NA		NA	
2,4-Dinitrotoluene	UG/KG	ND	320	NA		NA		NA	
2,6-Dinitrotoluene	UG/KG	ND	320	NA		NA		NA	
Di-n-octyl phthalate	UG/KG	ND	430	NA		NA		NA	
Fluoranthene	UG/KG	ND	320	NA		NA		NA	
Fluorene	UG/KG	ND	320	NA		NA		NA	
Hexachlorobenzene	UG/KG	ND	320	NA		NA		NA	
Hexachlorobutadiene	UG/KG	ND	320	NA		NA		NA	

NA = Not Appl ND = Not Detected

STL Buffal

Date: 08/16/7
Time: 15:35:

BB&L - F er Paint
Fletcher Paint - tability Samples
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID		TSW-900							
Job No	Lab ID	A04-6466	A4646605						
Sample Date		07/08/2004							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Hexachlorocyclopentadiene	UG/KG	ND	320	NA		NA		NA	
Hexachloroethane	UG/KG	ND	320	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	320	NA		NA		NA	
Isophorone	UG/KG	ND	320	NA		NA		NA	
2-Methylnaphthalene	UG/KG	ND	320	NA		NA		NA	
2-Methylphenol	UG/KG	ND	320	NA		NA		NA	
4-Methylphenol	UG/KG	ND	320	NA		NA		NA	
Naphthalene	UG/KG	ND	320	NA		NA		NA	
2-Nitroaniline	UG/KG	ND	810	NA		NA		NA	
3-Nitroaniline	UG/KG	ND	810	NA		NA		NA	
4-Nitroaniline	UG/KG	ND	810	NA		NA		NA	
Nitrobenzene	UG/KG	ND	320	NA		NA		NA	
2-Nitrophenol	UG/KG	ND	320	NA		NA		NA	
4-Nitrophenol	UG/KG	ND	810	NA		NA		NA	
N-nitrosodiphenylamine	UG/KG	ND	320	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/KG	ND	320	NA		NA		NA	
Pentachlorophenol	UG/KG	ND	810	NA		NA		NA	
Phenanthrene	UG/KG	ND	320	NA		NA		NA	
Phenol	UG/KG	ND	320	NA		NA		NA	
Pyrene	UG/KG	ND	320	NA		NA		NA	
2,4,5-Trichlorophenol	UG/KG	ND	810	NA		NA		NA	
2,4,6-Trichlorophenol	UG/KG	ND	320	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	104	50-200	NA		NA		NA	
Naphthalene-D8	%	108	50-200	NA		NA		NA	
Acenaphthene-D10	%	102	50-200	NA		NA		NA	
Phenanthrene-D10	%	92	50-200	NA		NA		NA	
Chrysene-D12	%	80	50-200	NA		NA		NA	
Perylene-D12	%	126	50-200	NA		NA		NA	
Nitrobenzene-D5	%	66	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	81	36-138	NA		NA		NA	
p-Terphenyl-d14	%	106	41-167	NA		NA		NA	
Phenol-D5	%	68	34-120	NA		NA		NA	
2-Fluorophenol	%	60	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	100	42-140	NA		NA		NA	

20\219

NA = Not Applicable ND = Not Detected

STL Buffalo

Impriuget Water Samples
SVOC

Date: 08/16/2004
Time: 15:35:43

BB&L - Fletcher Paint
Fletcher Paint - Treatability Samples
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

		Elm Street - 700		Elm Street - 900		Elm Street - 900 Dilution		Mill Street - 900	
Client ID		WE-700		WE-900		WE-900 DL		WM-900	
Job No	Lab ID	A04-6466	A4646607	A04-6466	A4646608	A04-6466	A4646608DL	A04-6466	A4646609
Sample Date		07/08/2004		07/08/2004		07/08/2004		07/08/2004	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	30	12 J	31	ND	310	ND	380
Acenaphthylene	UG/L	9 J	30	22 J	31	ND	310	140 J	380
Acetophenone	UG/L	ND	30	ND	31	ND	310	ND	380
Anthracene	UG/L	ND	30	ND	31	ND	310	ND	380
Atrazine	UG/L	ND	30	ND	31	ND	310	ND	380
Benzaldehyde	UG/L	ND	62	ND	64	ND	640	ND	790
Benzo(a)anthracene	UG/L	ND	30	ND	31	ND	310	ND	380
Benzo(b)fluoranthene	UG/L	ND	30	ND	31	ND	310	ND	380
Benzo(k)fluoranthene	UG/L	ND	30	ND	31	ND	310	ND	380
Benzo(ghi)perylene	UG/L	ND	30	ND	31	ND	310	ND	380
Benzo(a)pyrene	UG/L	ND	30	ND	31	ND	310	ND	380
Biphenyl	UG/L	ND	30	ND	31	ND	310	ND	380
Bis(2-chloroethoxy) methane	UG/L	ND	30	ND	31	ND	310	ND	380
Bis(2-chloroethyl) ether	UG/L	ND	30	ND	31	ND	310	ND	380
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	30	ND	31	ND	310	ND	380
Bis(2-ethylhexyl) phthalate	UG/L	ND	30	ND	31	ND	310	ND	380
4-Bromophenyl phenyl ether	UG/L	ND	30	ND	31	ND	310	ND	380
Butyl benzyl phthalate	UG/L	ND	30	ND	31	ND	310	ND	380
4-Chloroaniline	UG/L	ND	30	ND	31	ND	310	ND	380
4-Chloro-3-methylphenol	UG/L	ND	30	ND	31	ND	310	ND	380
2-Chloronaphthalene	UG/L	ND	30	ND	31	ND	310	ND	380
2-Chlorophenol	UG/L	ND	30	ND	31	ND	310	ND	380
4-Chlorophenyl phenyl ether	UG/L	ND	30	ND	31	ND	310	ND	380
Caprolactam	UG/L	ND	30	ND	31	ND	310	ND	380
Carbazole	UG/L	ND	30	ND	31	ND	310	ND	380
Chrysene	UG/L	5 J	30	20 J	31	ND	310	140 J	380
Dibenzo(a,h)anthracene	UG/L	ND	30	ND	31	ND	310	ND	380
Dibenzofuran	UG/L	17 J	30	47	31	ND	310	ND	380
Di-n-butyl phthalate	UG/L	ND	30	ND	31	ND	310	ND	380
3,3'-Dichlorobenzidine	UG/L	ND	30	ND	31	ND	310	ND	380
2,4-Dichlorophenol	UG/L	ND	30	ND	31	ND	310	120 J	380
Diethyl phthalate	UG/L	ND	30	ND	31	ND	310	ND	380
2,4-Dimethylphenol	UG/L	33	30	240	31	240 DJ	310	1000	380
Dimethyl phthalate	UG/L	ND	30	ND	31	ND	310	ND	380
4,6-Dinitro-2-methylphenol	UG/L	ND	76	ND	78	ND	780	ND	960
2,4-Dinitrophenol	UG/L	ND	76	ND	78	ND	780	ND	960
2,4-Dinitrotoluene	UG/L	ND	30	ND	31	ND	310	ND	380
2,6-Dinitrotoluene	UG/L	ND	30	ND	31	ND	310	ND	380
Di-n-octyl phthalate	UG/L	ND	30	ND	31	ND	310	ND	380
Fluoranthene	UG/L	ND	30	ND	31	ND	310	ND	380
Fluorene	UG/L	ND	30	40	31	ND	310	120 J	380
Hexachlorobenzene	UG/L	ND	30	ND	31	ND	310	ND	380
Hexachlorobutadiene	UG/L	ND	30	ND	31	ND	310	ND	380

NA = Not Appli ND = Not Detected

STL Buffal-

Client ID		WE-700		WE-900		WE-900 DL		WM-900	
Job No	Lab ID	A04-6466	A4646607	A04-6466	A4646608	A04-6466	A4646608DL	A04-6466	A4646609
Sample Date		07/08/2004		07/08/2004		07/08/2004		07/08/2004	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Hexachlorocyclopentadiene	UG/L	ND	72	ND	74	ND	740	ND	910
Hexachloroethane	UG/L	ND	30	ND	31	ND	310	ND	380
Indeno(1,2,3-cd)pyrene	UG/L	ND	30	ND	31	ND	310	ND	380
Isophorone	UG/L	ND	30	ND	31	ND	310	ND	380
2-Methylnaphthalene	UG/L	21 J	30	180	31	160 DJ	310	310 J	380
2-Methylphenol	UG/L	50	30	650 E	31	560 D	310	2700	380
4-Methylphenol	UG/L	59	30	520 E	31	460 D	310	3300	380
Naphthalene	UG/L	64	30	380	31	330 D	310	440	380
2-Nitroaniline	UG/L	ND	76	ND	78	ND	780	ND	960
3-Nitroaniline	UG/L	ND	76	ND	78	ND	780	ND	960
4-Nitroaniline	UG/L	ND	76	ND	78	ND	780	ND	960
Nitrobenzene	UG/L	ND	30	ND	31	ND	310	ND	380
2-Nitrophenol	UG/L	ND	30	ND	31	ND	310	ND	380
4-Nitrophenol	UG/L	ND	76	ND	78	ND	780	ND	960
N-nitrosodiphenylamine	UG/L	ND	30	ND	31	ND	310	ND	380
N-Nitroso-Di-n-propylamine	UG/L	ND	30	ND	31	ND	310	ND	380
Pentachlorophenol	UG/L	ND	76	ND	78	ND	780	ND	960
Phenanthrene	UG/L	8 J	30	9 J	31	ND	310	ND	380
Phenol	UG/L	370	30	3400 E	31	2500 D	310	9100 E	380
Pyrene	UG/L	17 J	30	45	31	41 DJ	310	240 J	380
2,4,5-Trichlorophenol	UG/L	ND	76	ND	78	ND	780	ND	960
2,4,6-Trichlorophenol	UG/L	ND	30	ND	31	ND	310	ND	380
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	95	50-200	91	50-200	98	50-200	88	50-200
Naphthalene-D8	%	91	50-200	88	50-200	92	50-200	85	50-200
Acenaphthene-D10	%	78	50-200	81	50-200	80	50-200	79	50-200
Phenanthrene-D10	%	332 *	50-200	555 *	50-200	108	50-200	939 *	50-200
Chrysene-D12	%	84	50-200	86	50-200	76	50-200	78	50-200
Perylene-D12	%	111	50-200	114	50-200	95	50-200	101	50-200
Nitrobenzene-D5	%	83	34-121	106	34-121	96	34-121	107	34-121
2-Fluorobiphenyl	%	93	42-126	106	42-126	96	42-126	93	42-126
p-Terphenyl-d14	%	96	36-145	116	36-145	98	36-145	88	36-145
Phenol-D5	%	28	10-110	46	10-110	32	10-110	33	10-110
2-Fluorophenol	%	43	14-120	55	14-120	50	14-120	47	14-120
2,4,6-Tribromophenol	%	22 *	42-158	16 *	42-158	60	42-158	7 *	42-158

22\219

NA = Not Applicable ND = Not Detected

Date: 08/16/2004
Time: 15:35:43

Impinger Water Sample
SVOC

BB&L - Fletcher Paint
Fletcher Paint - Treatability Samples
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Mill Street - 900 Dilution

Client ID		WM-900 DL							
Job No	Lab ID	A04-6466	A4646609DL						
Sample Date		07/08/2004							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	1900	NA		NA		NA	
Acenaphthylene	UG/L	ND	1900	NA		NA		NA	
Acetophenone	UG/L	ND	1900	NA		NA		NA	
Anthracene	UG/L	ND	1900	NA		NA		NA	
Atrazine	UG/L	ND	1900	NA		NA		NA	
Benzaldehyde	UG/L	ND	3900	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	1900	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	1900	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	1900	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	1900	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	1900	NA		NA		NA	
Biphenyl	UG/L	ND	1900	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	1900	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	1900	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	1900	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	1900	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	1900	NA		NA		NA	
Butyl benzyl phthalate	UG/L	ND	1900	NA		NA		NA	
4-Chloroaniline	UG/L	ND	1900	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	1900	NA		NA		NA	
2-Chloronaphthalene	UG/L	ND	1900	NA		NA		NA	
2-Chlorophenol	UG/L	ND	1900	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	1900	NA		NA		NA	
Caprolactam	UG/L	ND	1900	NA		NA		NA	
Carbazole	UG/L	ND	1900	NA		NA		NA	
Chrysene	UG/L	ND	1900	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	1900	NA		NA		NA	
Dibenzofuran	UG/L	ND	1900	NA		NA		NA	
Di-n-butyl phthalate	UG/L	ND	1900	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	ND	1900	NA		NA		NA	
2,4-Dichlorophenol	UG/L	ND	1900	NA		NA		NA	
Diethyl phthalate	UG/L	ND	1900	NA		NA		NA	
2,4-Dimethylphenol	UG/L	ND	1900	NA		NA		NA	
Dimethyl phthalate	UG/L	ND	1900	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	4800	NA		NA		NA	
2,4-Dinitrophenol	UG/L	ND	4800	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	ND	1900	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	ND	1900	NA		NA		NA	
Di-n-octyl phthalate	UG/L	ND	1900	NA		NA		NA	
Fluoranthene	UG/L	ND	1900	NA		NA		NA	
Fluorene	UG/L	ND	1900	NA		NA		NA	
Hexachlorobenzene	UG/L	ND	1900	NA		NA		NA	
Hexachlorobutadiene	UG/L	ND	1900	NA		NA		NA	

23219

NA = Not Appl e ND = Not Detected

STL Buffa

BB&L - Fl er Paint
Fletcher Paint - tability Samples
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client ID		WM-900 DL							
Job No	Lab ID	A04-6466	A4646609DL						
Sample Date		07/08/2004							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Hexachlorocyclopentadiene	UG/L	ND	4600	NA		NA		NA	
Hexachloroethane	UG/L	ND	1900	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	1900	NA		NA		NA	
Isophorone	UG/L	ND	1900	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	1900	NA		NA		NA	
2-Methylphenol	UG/L	670 DJ	1900	NA		NA		NA	
4-Methylphenol	UG/L	440 DJ	1900	NA		NA		NA	
Naphthalene	UG/L	430 DJ	1900	NA		NA		NA	
2-Nitroaniline	UG/L	ND	4800	NA		NA		NA	
3-Nitroaniline	UG/L	ND	4800	NA		NA		NA	
4-Nitroaniline	UG/L	ND	4800	NA		NA		NA	
Nitrobenzene	UG/L	ND	1900	NA		NA		NA	
2-Nitrophenol	UG/L	ND	1900	NA		NA		NA	
4-Nitrophenol	UG/L	ND	4800	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	ND	1900	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	ND	1900	NA		NA		NA	
Pentachlorophenol	UG/L	ND	4800	NA		NA		NA	
Phenanthrene	UG/L	ND	1900	NA		NA		NA	
Phenol	UG/L	2800 D	1900	NA		NA		NA	
Pyrene	UG/L	ND	1900	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	4800	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	1900	NA		NA		NA	
==========IS/SURROGATE(S)==========									
1,4-Dichlorobenzene-D4	%	87	50-200	NA		NA		NA	
Naphthalene-D8	%	88	50-200	NA		NA		NA	
Acenaphthene-D10	%	79	50-200	NA		NA		NA	
Phenanthrene-D10	%	79	50-200	NA		NA		NA	
Chrysene-D12	%	76	50-200	NA		NA		NA	
Perylene-D12	%	96	50-200	NA		NA		NA	
Nitrobenzene-D5	%	82	34-121	NA		NA		NA	
2-Fluorobiphenyl	%	97	42-126	NA		NA		NA	
p-Terphenyl-d14	%	94	36-145	NA		NA		NA	
Phenol-D5	%	28	10-110	NA		NA		NA	
2-Fluorophenol	%	38	14-120	NA		NA		NA	
2,4,6-Tribromophenol	%	54	42-158	NA		NA		NA	

24\219

NA = Not Applicable ND = Not Detected

Date: 08/16/2004
Time: 15:35:49

PCB in Soil by 8082

BB&L - Fletcher Paint
Fletcher Paint - Treatability Samples
METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID	PSE	PSE-D	PSM	TST-900
	Elm Street - Prepared	Elm Street - Prepared Duplicate	Mill Street	Mill Street - Treated @ 900
Job No / Lab ID	A04-7515 / A4751502	A04-7515 / A4751503	A04-7515 / A4751501	A04-7515 / A4751506
Sample Date	07/08/2004	07/08/2004	07/08/2004	07/08/2004

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	220000	ND	470000	ND	24000000	ND	190
Aroclor 1221	UG/KG	ND	220000	ND	470000	ND	24000000	ND	190
Aroclor 1232	UG/KG	ND	220000	ND	470000	ND	24000000	ND	190
Aroclor 1242	UG/KG	ND	220000	ND	470000	140000000	24000000	ND	190
Aroclor 1248	UG/KG	460000	220000	480000	470000	ND	24000000	46 J	190
Aroclor 1254	UG/KG	390000	220000	410000 J	470000	ND	24000000	ND	190
Aroclor 1260	UG/KG	ND	220000	ND	470000	ND	24000000	ND	190
Total Polychlorinated Biphenyl	UG/KG	850000	220000	890000	470000	140000000	24000000	46 J	190
SURROGATE(S)									
Tetrachloro-m-xylene	%	0 D	32-148	0 D	32-148	0 D	32-148	108	32-148
Decachlorobiphenyl	%	0 D	36-153	0 D	36-153	0 D	36-153	130	36-153

Client ID	TSW-700	TSW-900		
	Elm Street - Treated @ 700	Elm Street - Treated @ 900		
Job No / Lab ID	A04-7515 / A4751504	A04-7515 / A4751505		
Sample Date	07/08/2004	07/08/2004		

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	210	ND	240	NA		NA	
Aroclor 1221	UG/KG	ND	210	ND	240	NA		NA	
Aroclor 1232	UG/KG	ND	210	ND	240	NA		NA	
Aroclor 1242	UG/KG	ND	210	160 J	240	NA		NA	
Aroclor 1248	UG/KG	740	210	ND	240	NA		NA	
Aroclor 1254	UG/KG	490	210	ND	240	NA		NA	
Aroclor 1260	UG/KG	ND	210	ND	240	NA		NA	
Total Polychlorinated Biphenyl	UG/KG	1200	210	160 J	240	NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	106	32-148	106	32-148	NA		NA	
Decachlorobiphenyl	%	122	36-153	122	36-153	NA		NA	

25\219

NA = Not Appli ND = Not Detected

STL Buffal

Date: 08/16/2
Time: 15:35:53

Impinger Water TOC

BB&L - Fl r Paint
Fletcher Paint - .ability Samples
WET CHEMISTRY ANALYSIS

ept: AN0326

Elm Street - 700 Elm Street 900 Mill Street - 900

Client ID		WE-700		WE-900		WM-900			
Job No	Lab ID	A04-6466	A4646607	A04-6466	A4646608	A04-6466	A4646609		
Sample Date		07/08/2004		07/08/2004		07/08/2004			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Organic Carbon	MG/L	38.0	1.0	70.4	1.0	284	10	NA	

26\219

NA = Not Applicable ND = Not Detected

STL Buffalo

Appendix A

SEVERN TRENT STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

August 9, 2004

STL SACRAMENTO PROJECT NUMBER: G4G130294
PO/CONTRACT:

Candace Fox
STL Buffalo
10 Hazelwood Drive
Amherst, NY 14228

Dear Ms. Fox,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on July 13, 2004. These samples are associated with your NY3A914.1 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4362.

Sincerely,

Diana Brooks
Project Manager

AU4-6469

TABLE OF CONTENTS

STL SACRAMENTO PROJECT NUMBER G4G130294

Case Narrative 1

STL Sacramento Quality Assurance Program 3

Sample Description Information 4

Chain of Custody Documentation 5

SOLID/AIR, 1668, PCBs, HRGC/HRMS 7
Samples: 1, 2, 3, 4, 5, 6, 7, 8
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

SOLID, D 2216-90, Moisture, Percent 87-93
Samples: 1, 2, 3, 4, 5, 6
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G4G130294

SOLID, 1668, PCBs, HRGC/HRMS – cont.

Internal standard 13C-PCB-3 in the method blank did not meet the ratio criteria. The theoretical ratio was used for quantitation of the internal standard. The internal standard (IS) recovery of 13C-PCB-3 (3.4%) in the method blank was below the method recommended recovery limit of 25%. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to low IS recoveries if signal-to-noise is greater than 10:1, which is achieved for one of the IS's but not the second. Data is below the reporting limit so impact should be minimal.

One of the internal standards for 13C-PCB-3 in sample G4G130294-004 was below the noise threshold of the detector. The theoretical ratio was used for quantitation of the percent recovery using the internal standard that was detected. The internal standard (IS) recovery of 13C-PCB-3 (0.8%) in sample G4G130294-004 was below the method recommended recovery limit of 25%. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to low IS recoveries if signal-to-noise is greater than 10:1, which is achieved for one of the IS's but not the second. The theoretical ratio was used for quantitation of PCB1, PCB2 and PCB3 in sample G4G130294-004. The data should be considered estimated and is qualified with a "JA" flag.

The internal standard recovery for 13C-PCB-15 (19%) in sample G4G130294-004 is lower than the method recommended goal of 25%. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to low internal standard recoveries if signal-to-noise is greater than 10:1, which is achieved.

The concentration of PCB-28 and PCB-37 in sample G4G130294-004 exceeded the upper quantitation level of the initial calibration curve, but the peaks did not saturate the instrument detector. Historical data indicates that for the isotope dilution method, dilution and reinjection will not produce significantly different results from those reported with the "E" qualifier.

The PCB-81 and PCB-123 isomers in sample G4G130294-004 have elevated reporting limits due to significant contribution from fragmentation ions derived from isomers at higher chlorination levels. These elevated reporting limits are "G" flagged.

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G4G130294

AIR, 1668, PCBs, HRGC/HRMS

Sample(s): 7, 8
Your samples have been assigned the "G" qualifier for isomers TCB-77/81 and/or PeCB-123. The "G" implies the reporting limit has been elevated due to significant contribution, at least 50%, from a fragmented, higher chlorinated PCB.

There were no other anomalies associated with this project.

SEVERN TRENT STL

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon	CA 200005
Arizona	AZ0616	Pennsylvania	68-00272
Arkansas	NA	South Carolina	87014001
California*	01119CA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA 044	USACE	NA
New Jersey*	CA005	USDA Foreign Plant	37-82605
New York*	11666	USDA Foreign Soil	S-46613

*NELAP accredited. A more detailed parameter list is available upon request.

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary
G4G130294

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
GK057	1	PSM	7/8/04	7/13/04 09:35 AM
GK2TQ	2	PSE	7/8/04	7/13/04 09:35 AM
GK2TR	3	PSE-D	7/8/04	7/13/04 09:35 AM
GK2TV	4	TSW-700	7/8/04	7/13/04 09:35 AM
GK2T0	5	TSW-900	7/8/04	7/13/04 09:35 AM
GK2T2	6	TST-900	7/8/04	7/13/04 09:35 AM
GK2T3	7	HFE-900	7/8/04	7/13/04 09:35 AM
GK2T5	8	HFM900	7/8/04	7/13/04 09:35 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

G4G130294

Client: General Electric
Project: NY3A9104.1
Quote: NY02-011
SM #: 515

Turn Around Required: 10B

Purchase Order#: TBD

Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
PSM	A4646901	SOTHER	PCBS CAUTION-HIGH PCB L	1-16ozGW	07/08/2004
PSE	A4646902	SOTHER	PCBS CAUTION-HIGH PCB L	1-16ozGW	07/08/2004
PSE-D	A4646903	SOTHER	PCBS CAUTION-HIGH PCB L	1-16ozGW	07/08/2004
TSW-700	A4646904	SOTHER	PCBS CAUTION-HIGH PCB L	1-16ozP	07/08/2004
TSW-900	A4646905	SOTHER	PCBS CAUTION-HIGH PCB L	1-16ozP	07/08/2004
TST-900	A4646906	SOTHER	PCBS CAUTION-HIGH PCB L	1-16ozP	07/08/2004
HFE-900	A4646907	SOTHER	PCBS CAUTION-HIGH PCB L	1-4ozP	07/08/2004
HFM-900	A4646908	SOTHER	PCBS CAUTION-HIGH PCB L	1-4ozP	07/08/2004

Relinquished by STL Buffalo: Signature(s)	Date	Time	Received By STL - Sacramento: Signature(s)	Date	Time
(1) [signature]	07/12/2004	1525	(3) [signature]	07/13/2002	~~1605~~ 0905 pm
(2)	/ /20		(4)	/ /20	

* CAUTION, High PCB Levels *

RECEIVED IN GOOD CONDITION UNDER COC
JUL 13 2004
INI.

SEVERN TRENT STL

LOT RECEIPT CHECKLIST
STL Sacramento

CLIENT SL Buffalo PM DLB LOG # 27622

LOT # (QUANTIMS ID) G4G130294 QUOTE # 58909 LOCATION ~~NISC~~ W9B

		Initials	Date
DATE RECEIVED 7/13/04 TIME RECEIVED 0935			7/13/04
DELIVERED BY	☐ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☒ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ STL COURIER ☐ COURIERS ON DEMAND ☐ OTHER		
CUSTODY SEAL STATUS	☒ INTACT ☐ BROKEN ☐ N/A		
CUSTODY SEAL #(S)	119187		
SHIPPPING CONTAINER(S)	☐ STL ☒ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 1☐ 3 ☒ ☐ OTHER		
COC #(S)	NA		
TEMPERATURE BLANK	NA		
SAMPLE TEMPERATURE	5°C		
COLLECTOR'S NAME:	☐ Verified from COC ☒ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☒ N/A		
LABELED BY			
LABELS CHECKED BY			
PEER REVIEW	☒ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☒ N/A		
	VOA-ENCORES ☒ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☒ N/A		
☒ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☐ N/A		
☐ Clouseau ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1	☒ N/A		
☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED	☐ PM NOTIFIED		

Notes:

*1 Acceptable temperature range for State of Wisconsin samples is ≤ 4°C.

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES.

SOLID/AIR, 1668, PCBs, HRGC/HRMS

STL BUFFALO

Client Sample ID: PSM

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-001 Work Order #...: GK0571AC Matrix.....: SOLID
Date Sampled...: 07/08/04 Date Received..: 07/13/04
Prep Date.....: 07/19/04 Analysis Date..: 07/22/04
Prep Batch #...: 4201349
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	7300000	120000	pg/g	EPA-14 1668
PCB 2 (BZ)	590000	120000	pg/g	EPA-14 1668
PCB 3 (BZ)	1200000	120000	pg/g	EPA-14 1668
PCB 4 (BZ)	130000000 C,D	5800000	pg/g	EPA-14 1668
PCB 5 (BZ)	350000000 C,D	5800000	pg/g	EPA-14 1668
PCB 6 (BZ)	110000000 D	5800000	pg/g	EPA-14 1668
PCB 7 (BZ)	49000000 C,D	5800000	pg/g	EPA-14 1668
PCB 8 (BZ)	350000000 C,D	5800000	pg/g	EPA-14 1668
PCB 9 (BZ)	49000000 C,D	5800000	pg/g	EPA-14 1668
PCB 10 (BZ)	130000000 C,D	5800000	pg/g	EPA-14 1668
PCB 11 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 12 (BZ)	22000000 C,D	5800000	pg/g	EPA-14 1668
PCB 13 (BZ)	22000000 C,D	5800000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 15 (BZ)	170000000 D	5800000	pg/g	EPA-14 1668
PCB 16 (BZ)	260000000 C,D	5800000	pg/g	EPA-14 1668
PCB 17 (BZ)	160000000 D	5800000	pg/g	EPA-14 1668
PCB 18 (BZ)	210000000 D	5800000	pg/g	EPA-14 1668
PCB 19 (BZ)	50000000 D	5800000	pg/g	EPA-14 1668
PCB 20 (BZ)	250000000 C,D	5800000	pg/g	EPA-14 1668
PCB 21 (BZ)	250000000 C,D	5800000	pg/g	EPA-14 1668
PCB 22 (BZ)	160000000 D	5800000	pg/g	EPA-14 1668
PCB 23 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 24 (BZ)	37000000 C,D	5800000	pg/g	EPA-14 1668
PCB 25 (BZ)	31000000 D	5800000	pg/g	EPA-14 1668
PCB 26 (BZ)	74000000 D	5800000	pg/g	EPA-14 1668
PCB 27 (BZ)	37000000 C	5800000	pg/g	EPA-14 1668
PCB 28 (BZ)	260000000 D	5800000	pg/g	EPA-14 1668
PCB 29 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 30 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 31 (BZ)	280000000 D	5800000	pg/g	EPA-14 1668
PCB 32 (BZ)	260000000 C,D	5800000	pg/g	EPA-14 1668
PCB 33 (BZ)	250000000 C,D	5800000	pg/g	EPA-14 1668
PCB 34 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 35 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 36 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 37 (BZ)	97000000 D	5800000	pg/g	EPA-14 1668
PCB 38 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 39 (BZ)	ND D	5800000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSM

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-001 Work Order #...: GK0571AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	66000000 D	5800000	pg/g	EPA-14 1668
PCB 41 (BZ)	350000000 C,D	5800000	pg/g	EPA-14 1668
PCB 42 (BZ)	180000000 D	5800000	pg/g	EPA-14 1668
PCB 43 (BZ)	390000000 C,D	5800000	pg/g	EPA-14 1668
PCB 44 (BZ)	400000000 D	5800000	pg/g	EPA-14 1668
PCB 45 (BZ)	120000000 D	5800000	pg/g	EPA-14 1668
PCB 46 (BZ)	50000000 D	5800000	pg/g	EPA-14 1668
PCB 47 (BZ)	190000000 C,D	5800000	pg/g	EPA-14 1668
PCB 48 (BZ)	190000000 C,D	5800000	pg/g	EPA-14 1668
PCB 49 (BZ)	390000000 C,D	5800000	pg/g	EPA-14 1668
PCB 50 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 51 (BZ)	33000000 D	5800000	pg/g	EPA-14 1668
PCB 52 (BZ)	410000000 C,D	5800000	pg/g	EPA-14 1668
PCB 53 (BZ)	100000000 D	5800000	pg/g	EPA-14 1668
PCB 54 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 55 (BZ)	13000000 D	5800000	pg/g	EPA-14 1668
PCB 56 (BZ)	390000000 C,D	5800000	pg/g	EPA-14 1668
PCB 57 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 58 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 59 (BZ)	42000000 D	5800000	pg/g	EPA-14 1668
PCB 60 (BZ)	390000000 C,D	5800000	pg/g	EPA-14 1668
PCB 61 (BZ)	260000000 C,D	5800000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 63 (BZ)	21000000 D	5800000	pg/g	EPA-14 1668
PCB 64 (BZ)	350000000 C,D	5800000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 66 (BZ)	300000000 C,D	5800000	pg/g	EPA-14 1668
PCB 67 (BZ)	20000000 D	5800000	pg/g	EPA-14 1668
PCB 68 (BZ)	350000000 C,D	5800000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 70 (BZ)	500000000 D	5800000	pg/g	EPA-14 1668
PCB 71 (BZ)	130000000 D	5800000	pg/g	EPA-14 1668
PCB 72 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 73 (BZ)	410000000 C,D	5800000	pg/g	EPA-14 1668
PCB 74 (BZ)	260000000 C,D	5800000	pg/g	EPA-14 1668
PCB 75 (BZ)	190000000 C,D	5800000	pg/g	EPA-14 1668
PCB 76 (BZ)	300000000 C,D	5800000	pg/g	EPA-14 1668
PCB 77 (BZ)	ND G,D	35000000	pg/g	EPA-14 1668
PCB 78 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 79 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 80 (BZ)	300000000 C,D	5800000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND G,D	4000000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSM

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-001 Work Order #...: GK0571AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	32000000 D	5800000	pg/g	EPA-14 1668
PCB 83 (BZ)	8500000 C,D	5800000	pg/g	EPA-14 1668
PCB 84 (BZ)	49000000 D	5800000	pg/g	EPA-14 1668
PCB 85 (BZ)	32000000 C,D	5800000	pg/g	EPA-14 1668
PCB 86 (BZ)	52000000 C,D	5800000	pg/g	EPA-14 1668
PCB 87 (BZ)	74000000 C,D	5800000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 89 (BZ)	73000000 C,D	5800000	pg/g	EPA-14 1668
PCB 90 (BZ)	73000000 C,D	5800000	pg/g	EPA-14 1668
PCB 91 (BZ)	28000000 D	5800000	pg/g	EPA-14 1668
PCB 92 (BZ)	19000000 D	5800000	pg/g	EPA-14 1668
PCB 93 (BZ)	100000000 C,D	5800000	pg/g	EPA-14 1668
PCB 94 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 95 (BZ)	100000000 C,D	5800000	pg/g	EPA-14 1668
PCB 96 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 97 (BZ)	52000000 C,D	5800000	pg/g	EPA-14 1668
PCB 98 (BZ)	9400000 C,D	5800000	pg/g	EPA-14 1668
PCB 99 (BZ)	61000000 D	5800000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 101 (BZ)	73000000 C,D	5800000	pg/g	EPA-14 1668
PCB 102 (BZ)	9400000 C,D	5800000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 105 (BZ)	48000000 C,D	580000	pg/g	EPA-14 1668
PCB 106 (BZ)	62000000 C,D	5800000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	7700000 C,D	5800000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	7700000 C,D	5800000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	8500000 C,D	5800000	pg/g	EPA-14 1668
PCB 110 (BZ)	110000000 D	5800000	pg/g	EPA-14 1668
PCB 111 (BZ)	130000000 C,D	5800000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 114 (BZ)	3400000 D	580000	pg/g	EPA-14 1668
PCB 115 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 117 (BZ)	130000000 C,D	5800000	pg/g	EPA-14 1668
PCB 118 (BZ)	62000000 C,D	580000	pg/g	EPA-14 1668
PCB 119 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 120 (BZ)	32000000 C,D	5800000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 122 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND G,D	2300000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSM

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-001 Work Order #...: GK0571AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	ND D	5800000	pg/g	EPA-14 1668
PCB 125 (BZ)	52000000 C,D	5800000	pg/g	EPA-14 1668
PCB 126 (BZ)	ND D	580000	pg/g	EPA-14 1668
PCB 127 (BZ)	48000000 C,D	5800000	pg/g	EPA-14 1668
PCB 128 (BZ)	4900000	120000	pg/g	EPA-14 1668
PCB 129 (BZ)	2000000	120000	pg/g	EPA-14 1668
PCB 130 (BZ)	2000000	120000	pg/g	EPA-14 1668
PCB 131 (BZ)	550000 C	120000	pg/g	EPA-14 1668
PCB 132 (BZ)	8900000 C	120000	pg/g	EPA-14 1668
PCB 133 (BZ)	250000	120000	pg/g	EPA-14 1668
PCB 134 (BZ)	1900000	120000	pg/g	EPA-14 1668
PCB 135 (BZ)	4000000 C	120000	pg/g	EPA-14 1668
PCB 136 (BZ)	3400000	120000	pg/g	EPA-14 1668
PCB 137 (BZ)	1600000	120000	pg/g	EPA-14 1668
PCB 138 (BZ)	21000000 C,E	120000	pg/g	EPA-14 1668
PCB 139 (BZ)	16000000 C,E	120000	pg/g	EPA-14 1668
PCB 140 (BZ)	130000	120000	pg/g	EPA-14 1668
PCB 141 (BZ)	4300000	120000	pg/g	EPA-14 1668
PCB 142 (BZ)	550000 C	120000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 144 (BZ)	4000000 C	120000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 146 (BZ)	2700000	120000	pg/g	EPA-14 1668
PCB 147 (BZ)	650000	120000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 149 (BZ)	16000000 C,E	120000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 151 (BZ)	3600000	120000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 153 (BZ)	13000000 E	120000	pg/g	EPA-14 1668
PCB 154 (BZ)	260000	120000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 156 (BZ)	2200000	12000	pg/g	EPA-14 1668
PCB 157 (BZ)	500000	12000	pg/g	EPA-14 1668
PCB 158 (BZ)	3400000 C	120000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 160 (BZ)	3400000 C	120000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 162 (BZ)	130000	120000	pg/g	EPA-14 1668
PCB 163 (BZ)	21000000 C,E	120000	pg/g	EPA-14 1668
PCB 164 (BZ)	21000000 C,E	120000	pg/g	EPA-14 1668
PCB 165 (BZ)	550000 C	120000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSM

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-001 Work Order #...: GK0571AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	180000	120000	pg/g	EPA-14 1668
PCB 167 (BZ)	250000	12000	pg/g	EPA-14 1668
PCB 168 (BZ)	8900000 C	120000	pg/g	EPA-14 1668
PCB 169 (BZ)	ND	12000	pg/g	EPA-14 1668
PCB 170 (BZ)	1800000 C	12000	pg/g	EPA-14 1668
PCB 171 (BZ)	650000	120000	pg/g	EPA-14 1668
PCB 172 (BZ)	300000 C	120000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 174 (BZ)	2000000	120000	pg/g	EPA-14 1668
PCB 175 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 176 (BZ)	290000	120000	pg/g	EPA-14 1668
PCB 177 (BZ)	1200000	120000	pg/g	EPA-14 1668
PCB 178 (BZ)	370000	120000	pg/g	EPA-14 1668
PCB 179 (BZ)	800000	120000	pg/g	EPA-14 1668
PCB 180 (BZ)	3000000	12000	pg/g	EPA-14 1668
PCB 181 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 182 (BZ)	1500000 C	120000	pg/g	EPA-14 1668
PCB 183 (BZ)	1100000	120000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 185 (BZ)	230000	120000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 187 (BZ)	1500000 C	120000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 189 (BZ)	76000	12000	pg/g	EPA-14 1668
PCB 190 (BZ)	1800000 C	120000	pg/g	EPA-14 1668
PCB 191 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 192 (BZ)	300000 C	120000	pg/g	EPA-14 1668
PCB 193 (BZ)	130000	120000	pg/g	EPA-14 1668
PCB 194 (BZ)	520000	120000	pg/g	EPA-14 1668
PCB 195 (BZ)	160000	120000	pg/g	EPA-14 1668
PCB 196 (BZ)	930000 C	120000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	120000	120000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	120000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	940000	120000	pg/g	EPA-14 1668
PCB 202 (BZ)	170000	120000	pg/g	EPA-14 1668
PCB 203 (BZ)	930000 C	120000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	120000	pg/g	EPA-14 1668
PCB 206 (BZ)	430000	120000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	120000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSM

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-001 Work Order #...: GK0571AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	140000	120000	pg/g	EPA-14 1668
PCB 209 (BZ)	ND	120000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	135	(25 - 150)
13C12-PCB 15	122	(25 - 150)
13C12-PCB 28	220 *	(25 - 150)
13C12-PCB 77	140	(25 - 150)
13C12-PCB 81	125	(25 - 150)
13C12-PCB 118	146	(25 - 150)
13C12-PCB 114	130	(25 - 150)
13C12-PCB 105	130	(25 - 150)
13C12-PCB 126	134	(25 - 150)
13C12-PCB 167	142	(25 - 150)
13C12-PCB 156	149	(25 - 150)
13C12-PCB 169	130	(25 - 150)
13C12-PCB 180	155 *	(25 - 150)
13C12-PCB 170	155 *	(25 - 150)
13C12-PCB 189	159 *	(25 - 150)
13C12-PCB 194	143	(25 - 150)
13C12-PCB 208	137	(25 - 150)
13C12-PCB 209	131	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

C Co-eluting isomer.

D Result was obtained from the analysis of a dilution.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

E Estimated result. Result concentration exceeds the calibration range.

* Surrogate recovery is outside stated control limits.

STL BUFFALO

Client Sample ID: PSE

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-002 Work Order #...: GK2TQ1AC Matrix.....: SOLID
Date Sampled...: 07/08/04 Date Received..: 07/13/04
Prep Date.....: 07/19/04 Analysis Date..: 07/22/04
Prep Batch #...: 4201349
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 2 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 3 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 4 (BZ)	950000 C	110000	pg/g	EPA-14 1668
PCB 5 (BZ)	750000 C	110000	pg/g	EPA-14 1668
PCB 6 (BZ)	320000	110000	pg/g	EPA-14 1668
PCB 7 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 8 (BZ)	750000 C	110000	pg/g	EPA-14 1668
PCB 9 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 10 (BZ)	950000 C	110000	pg/g	EPA-14 1668
PCB 11 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 12 (BZ)	140000 C	110000	pg/g	EPA-14 1668
PCB 13 (BZ)	140000 C	110000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 15 (BZ)	3300000	110000	pg/g	EPA-14 1668
PCB 16 (BZ)	14000000 C,E	110000	pg/g	EPA-14 1668
PCB 17 (BZ)	7400000	110000	pg/g	EPA-14 1668
PCB 18 (BZ)	9400000	110000	pg/g	EPA-14 1668
PCB 19 (BZ)	3800000	110000	pg/g	EPA-14 1668
PCB 20 (BZ)	5600000 C	110000	pg/g	EPA-14 1668
PCB 21 (BZ)	5600000 C	110000	pg/g	EPA-14 1668
PCB 22 (BZ)	11000000 E	110000	pg/g	EPA-14 1668
PCB 23 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 24 (BZ)	2800000 C	110000	pg/g	EPA-14 1668
PCB 25 (BZ)	1700000	110000	pg/g	EPA-14 1668
PCB 26 (BZ)	3900000	110000	pg/g	EPA-14 1668
PCB 27 (BZ)	2800000 C	110000	pg/g	EPA-14 1668
PCB 28 (BZ)	18000000 D	2200000	pg/g	EPA-14 1668
PCB 29 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 30 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 31 (BZ)	9600000 D	2200000	pg/g	EPA-14 1668
PCB 32 (BZ)	14000000 C,E	110000	pg/g	EPA-14 1668
PCB 33 (BZ)	5600000 C	110000	pg/g	EPA-14 1668
PCB 34 (BZ)	110000	110000	pg/g	EPA-14 1668
PCB 35 (BZ)	240000	110000	pg/g	EPA-14 1668
PCB 36 (BZ)	160000	110000	pg/g	EPA-14 1668
PCB 37 (BZ)	6400000	110000	pg/g	EPA-14 1668
PCB 38 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 39 (BZ)	ND	110000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSE

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-002 Work Order #...: GK2TQ1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	3600000	110000	pg/g	EPA-14 1668
PCB 41 (BZ)	12000000 C,E	110000	pg/g	EPA-14 1668
PCB 42 (BZ)	5900000	110000	pg/g	EPA-14 1668
PCB 43 (BZ)	13000000 C,E	110000	pg/g	EPA-14 1668
PCB 44 (BZ)	15000000 E	110000	pg/g	EPA-14 1668
PCB 45 (BZ)	3900000	110000	pg/g	EPA-14 1668
PCB 46 (BZ)	1600000	110000	pg/g	EPA-14 1668
PCB 47 (BZ)	5600000 C	110000	pg/g	EPA-14 1668
PCB 48 (BZ)	5600000 C	110000	pg/g	EPA-14 1668
PCB 49 (BZ)	13000000 C,E	110000	pg/g	EPA-14 1668
PCB 50 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 51 (BZ)	1000000	110000	pg/g	EPA-14 1668
PCB 52 (BZ)	21000000 C,D	2200000	pg/g	EPA-14 1668
PCB 53 (BZ)	3200000	110000	pg/g	EPA-14 1668
PCB 54 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 55 (BZ)	500000	110000	pg/g	EPA-14 1668
PCB 56 (BZ)	13000000 C,E	110000	pg/g	EPA-14 1668
PCB 57 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 58 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 59 (BZ)	1400000	110000	pg/g	EPA-14 1668
PCB 60 (BZ)	13000000 C,E	110000	pg/g	EPA-14 1668
PCB 61 (BZ)	8700000 C	110000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 63 (BZ)	640000	110000	pg/g	EPA-14 1668
PCB 64 (BZ)	12000000 C,E	110000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 66 (BZ)	9700000 C	110000	pg/g	EPA-14 1668
PCB 67 (BZ)	620000	110000	pg/g	EPA-14 1668
PCB 68 (BZ)	12000000 C,E	110000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 70 (BZ)	13000000 E,JA	110000	pg/g	EPA-14 1668
PCB 71 (BZ)	4200000	110000	pg/g	EPA-14 1668
PCB 72 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 73 (BZ)	21000000 C,D	2200000	pg/g	EPA-14 1668
PCB 74 (BZ)	8700000 C	110000	pg/g	EPA-14 1668
PCB 75 (BZ)	5600000 C	110000	pg/g	EPA-14 1668
PCB 76 (BZ)	9700000 C	110000	pg/g	EPA-14 1668
PCB 77 (BZ)	ND G	1400000	pg/g	EPA-14 1668
PCB 78 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 79 (BZ)	190000	110000	pg/g	EPA-14 1668
PCB 80 (BZ)	9700000 C	110000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND G	400000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSE

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-002 Work Order #...: GK2TQ1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	2400000	110000	pg/g	EPA-14 1668
PCB 83 (BZ)	830000 C	110000	pg/g	EPA-14 1668
PCB 84 (BZ)	5400000	110000	pg/g	EPA-14 1668
PCB 85 (BZ)	2400000 C	110000	pg/g	EPA-14 1668
PCB 86 (BZ)	14000000 C,E	110000	pg/g	EPA-14 1668
PCB 87 (BZ)	14000000 C,E	110000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 89 (BZ)	13000000 C,D	2200000	pg/g	EPA-14 1668
PCB 90 (BZ)	13000000 C,D	2200000	pg/g	EPA-14 1668
PCB 91 (BZ)	2300000	110000	pg/g	EPA-14 1668
PCB 92 (BZ)	3200000	110000	pg/g	EPA-14 1668
PCB 93 (BZ)	17000000 C,D	2200000	pg/g	EPA-14 1668
PCB 94 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 95 (BZ)	17000000 C,D	2200000	pg/g	EPA-14 1668
PCB 96 (BZ)	150000	110000	pg/g	EPA-14 1668
PCB 97 (BZ)	14000000 C,E	110000	pg/g	EPA-14 1668
PCB 98 (BZ)	460000 C	110000	pg/g	EPA-14 1668
PCB 99 (BZ)	6600000	110000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 101 (BZ)	13000000 C,D	2200000	pg/g	EPA-14 1668
PCB 102 (BZ)	460000 C	110000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 105 (BZ)	4800000 C	11000	pg/g	EPA-14 1668
PCB 106 (BZ)	11000000 C,D	2200000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	920000 C	110000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	920000 C	110000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	830000 C	110000	pg/g	EPA-14 1668
PCB 110 (BZ)	19000000 D	2200000	pg/g	EPA-14 1668
PCB 111 (BZ)	14000000 C,E	110000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 114 (BZ)	250000	11000	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 117 (BZ)	14000000 C,E	110000	pg/g	EPA-14 1668
PCB 118 (BZ)	11000000 C,D	220000	pg/g	EPA-14 1668
PCB 119 (BZ)	230000	110000	pg/g	EPA-14 1668
PCB 120 (BZ)	2400000 C	110000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 122 (BZ)	180000	110000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND G	240000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSE

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-002 Work Order #...: GK2TQ1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	660000	110000	pg/g	EPA-14 1668
PCB 125 (BZ)	14000000 C,E	110000	pg/g	EPA-14 1668
PCB 126 (BZ)	58000	11000	pg/g	EPA-14 1668
PCB 127 (BZ)	4800000 C	110000	pg/g	EPA-14 1668
PCB 128 (BZ)	2300000	110000	pg/g	EPA-14 1668
PCB 129 (BZ)	930000	110000	pg/g	EPA-14 1668
PCB 130 (BZ)	970000	110000	pg/g	EPA-14 1668
PCB 131 (BZ)	250000 C	110000	pg/g	EPA-14 1668
PCB 132 (BZ)	4600000 C	110000	pg/g	EPA-14 1668
PCB 133 (BZ)	150000	110000	pg/g	EPA-14 1668
PCB 134 (BZ)	950000	110000	pg/g	EPA-14 1668
PCB 135 (BZ)	2100000 C	110000	pg/g	EPA-14 1668
PCB 136 (BZ)	1800000	110000	pg/g	EPA-14 1668
PCB 137 (BZ)	720000	110000	pg/g	EPA-14 1668
PCB 138 (BZ)	12000000 C,E	110000	pg/g	EPA-14 1668
PCB 139 (BZ)	8800000 C	110000	pg/g	EPA-14 1668
PCB 140 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 141 (BZ)	2200000	110000	pg/g	EPA-14 1668
PCB 142 (BZ)	250000 C	110000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 144 (BZ)	2100000 C	110000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 146 (BZ)	1500000	110000	pg/g	EPA-14 1668
PCB 147 (BZ)	320000	110000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 149 (BZ)	8800000 C	110000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 151 (BZ)	1900000	110000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 153 (BZ)	7000000	110000	pg/g	EPA-14 1668
PCB 154 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 156 (BZ)	1100000	11000	pg/g	EPA-14 1668
PCB 157 (BZ)	230000	11000	pg/g	EPA-14 1668
PCB 158 (BZ)	1800000 C	110000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 160 (BZ)	1800000 C	110000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 162 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 163 (BZ)	12000000 C,E	110000	pg/g	EPA-14 1668
PCB 164 (BZ)	12000000 C,E	110000	pg/g	EPA-14 1668
PCB 165 (BZ)	250000 C	110000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSE

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-002 Work Order #...: GK2TQ1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 167 (BZ)	200000	11000	pg/g	EPA-14 1668
PCB 168 (BZ)	4600000 C	110000	pg/g	EPA-14 1668
PCB 169 (BZ)	ND	11000	pg/g	EPA-14 1668
PCB 170 (BZ)	940000 C	11000	pg/g	EPA-14 1668
PCB 171 (BZ)	380000	110000	pg/g	EPA-14 1668
PCB 172 (BZ)	160000 C	110000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 174 (BZ)	960000	110000	pg/g	EPA-14 1668
PCB 175 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 176 (BZ)	140000	110000	pg/g	EPA-14 1668
PCB 177 (BZ)	580000	110000	pg/g	EPA-14 1668
PCB 178 (BZ)	160000	110000	pg/g	EPA-14 1668
PCB 179 (BZ)	340000	110000	pg/g	EPA-14 1668
PCB 180 (BZ)	1300000	11000	pg/g	EPA-14 1668
PCB 181 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 182 (BZ)	580000 C	110000	pg/g	EPA-14 1668
PCB 183 (BZ)	570000	110000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 185 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 187 (BZ)	580000 C	110000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 189 (BZ)	43000	11000	pg/g	EPA-14 1668
PCB 190 (BZ)	940000 C	110000	pg/g	EPA-14 1668
PCB 191 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 192 (BZ)	160000 C	110000	pg/g	EPA-14 1668
PCB 193 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 194 (BZ)	120000	110000	pg/g	EPA-14 1668
PCB 195 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 196 (BZ)	220000 C	110000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	110000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	110000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	190000	110000	pg/g	EPA-14 1668
PCB 202 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 203 (BZ)	220000 C	110000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 206 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	110000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSE

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-002 Work Order #...: GK2TQ1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 209 (BZ)	ND	110000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	123	(25 - 150)
13C12-PCB 15	135	(25 - 150)
13C12-PCB 28	129	(25 - 150)
13C12-PCB 77	133	(25 - 150)
13C12-PCB 81	129	(25 - 150)
13C12-PCB 118	151 *	(25 - 150)
13C12-PCB 114	152 *	(25 - 150)
13C12-PCB 105	149	(25 - 150)
13C12-PCB 126	152 *	(25 - 150)
13C12-PCB 167	140	(25 - 150)
13C12-PCB 156	147	(25 - 150)
13C12-PCB 169	125	(25 - 150)
13C12-PCB 180	156 *	(25 - 150)
13C12-PCB 170	154 *	(25 - 150)
13C12-PCB 189	155 *	(25 - 150)
13C12-PCB 194	142	(25 - 150)
13C12-PCB 208	139	(25 - 150)
13C12-PCB 209	128	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

C Co-eluting isomer.

E *Estimated result. Result concentration exceeds the calibration range.*

D Result was obtained from the analysis of a dilution.

JA The analyte was positively identified, but the quantitation is an estimate.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

* Surrogate recovery is outside stated control limits.

STL BUFFALO

Client Sample ID: PSE-D

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-003 Work Order #...: GK2TR1AC Matrix.....: SOLID
Date Sampled...: 07/08/04 Date Received..: 07/13/04
Prep Date.....: 07/19/04 Analysis Date..: 07/21/04
Prep Batch #...: 4201349
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 2 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 3 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 4 (BZ)	6600000 C,D	2200000	pg/g	EPA-14 1668
PCB 5 (BZ)	2100000 C	110000	pg/g	EPA-14 1668
PCB 6 (BZ)	1700000	110000	pg/g	EPA-14 1668
PCB 7 (BZ)	140000 C	110000	pg/g	EPA-14 1668
PCB 8 (BZ)	2100000 C	110000	pg/g	EPA-14 1668
PCB 9 (BZ)	140000 C	110000	pg/g	EPA-14 1668
PCB 10 (BZ)	6600000 C,D	2200000	pg/g	EPA-14 1668
PCB 11 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 12 (BZ)	410000 C	110000	pg/g	EPA-14 1668
PCB 13 (BZ)	410000 C	110000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 15 (BZ)	11000000 D	2200000	pg/g	EPA-14 1668
PCB 16 (BZ)	42000000 C,D	2200000	pg/g	EPA-14 1668
PCB 17 (BZ)	23000000 D	2200000	pg/g	EPA-14 1668
PCB 18 (BZ)	31000000 D	2200000	pg/g	EPA-14 1668
PCB 19 (BZ)	9000000	110000	pg/g	EPA-14 1668
PCB 20 (BZ)	23000000 C,D	2200000	pg/g	EPA-14 1668
PCB 21 (BZ)	23000000 C,D	2200000	pg/g	EPA-14 1668
PCB 22 (BZ)	25000000 D	2200000	pg/g	EPA-14 1668
PCB 23 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 24 (BZ)	6600000 C	110000	pg/g	EPA-14 1668
PCB 25 (BZ)	5100000	110000	pg/g	EPA-14 1668
PCB 26 (BZ)	12000000 E	110000	pg/g	EPA-14 1668
PCB 27 (BZ)	6600000 C	110000	pg/g	EPA-14 1668
PCB 28 (BZ)	48000000 D	2200000	pg/g	EPA-14 1668
PCB 29 (BZ)	260000	110000	pg/g	EPA-14 1668
PCB 30 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 31 (BZ)	33000000 D	2200000	pg/g	EPA-14 1668
PCB 32 (BZ)	42000000 C,D	2200000	pg/g	EPA-14 1668
PCB 33 (BZ)	23000000 C,D	2200000	pg/g	EPA-14 1668
PCB 34 (BZ)	320000	110000	pg/g	EPA-14 1668
PCB 35 (BZ)	760000	110000	pg/g	EPA-14 1668
PCB 36 (BZ)	370000	110000	pg/g	EPA-14 1668
PCB 37 (BZ)	16000000 D	2200000	pg/g	EPA-14 1668
PCB 38 (BZ)	220000	110000	pg/g	EPA-14 1668
PCB 39 (BZ)	190000	110000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSE-D

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-003 Work Order #...: GK2TR1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	9800000	110000	pg/g	EPA-14 1668
PCB 41 (BZ)	30000000 C,D	2200000	pg/g	EPA-14 1668
PCB 42 (BZ)	15000000 E	110000	pg/g	EPA-14 1668
PCB 43 (BZ)	37000000 C,D	2200000	pg/g	EPA-14 1668
PCB 44 (BZ)	44000000 D	2200000	pg/g	EPA-14 1668
PCB 45 (BZ)	9800000	110000	pg/g	EPA-14 1668
PCB 46 (BZ)	4100000	110000	pg/g	EPA-14 1668
PCB 47 (BZ)	15000000 C,E	110000	pg/g	EPA-14 1668
PCB 48 (BZ)	15000000 C,E	110000	pg/g	EPA-14 1668
PCB 49 (BZ)	37000000 C,D	2200000	pg/g	EPA-14 1668
PCB 50 (BZ)	190000 JA	110000	pg/g	EPA-14 1668
PCB 51 (BZ)	2700000	110000	pg/g	EPA-14 1668
PCB 52 (BZ)	64000000 C,D	2200000	pg/g	EPA-14 1668
PCB 53 (BZ)	8300000	110000	pg/g	EPA-14 1668
PCB 54 (BZ)	130000	110000	pg/g	EPA-14 1668
PCB 55 (BZ)	1100000	110000	pg/g	EPA-14 1668
PCB 56 (BZ)	34000000 C,D	2200000	pg/g	EPA-14 1668
PCB 57 (BZ)	180000	110000	pg/g	EPA-14 1668
PCB 58 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 59 (BZ)	3600000	110000	pg/g	EPA-14 1668
PCB 60 (BZ)	34000000 C,D	2200000	pg/g	EPA-14 1668
PCB 61 (BZ)	24000000 C,D	2200000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 63 (BZ)	1700000	110000	pg/g	EPA-14 1668
PCB 64 (BZ)	30000000 C,D	2200000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 66 (BZ)	28000000 C,D	2200000	pg/g	EPA-14 1668
PCB 67 (BZ)	1600000	110000	pg/g	EPA-14 1668
PCB 68 (BZ)	30000000 C,D	2200000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 70 (BZ)	56000000 D	2200000	pg/g	EPA-14 1668
PCB 71 (BZ)	10000000	110000	pg/g	EPA-14 1668
PCB 72 (BZ)	150000	110000	pg/g	EPA-14 1668
PCB 73 (BZ)	64000000 C,D	2200000	pg/g	EPA-14 1668
PCB 74 (BZ)	24000000 C,D	2200000	pg/g	EPA-14 1668
PCB 75 (BZ)	15000000 C,E	110000	pg/g	EPA-14 1668
PCB 76 (BZ)	28000000 C,D	2200000	pg/g	EPA-14 1668
PCB 77 (BZ)	ND G	3800000	pg/g	EPA-14 1668
PCB 78 (BZ)	220000	110000	pg/g	EPA-14 1668
PCB 79 (BZ)	650000	110000	pg/g	EPA-14 1668
PCB 80 (BZ)	28000000 C,D	2200000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND G	1200000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSE-D

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-003 Work Order #...: GK2TR1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	8500000	110000	pg/g	EPA-14 1668
PCB 83 (BZ)	3000000 C	110000	pg/g	EPA-14 1668
PCB 84 (BZ)	20000000 E	110000	pg/g	EPA-14 1668
PCB 85 (BZ)	8600000 C	110000	pg/g	EPA-14 1668
PCB 86 (BZ)	60000000 D,C	2200000	pg/g	EPA-14 1668
PCB 87 (BZ)	60000000 C,D	2200000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 89 (BZ)	51000000 C,D	2200000	pg/g	EPA-14 1668
PCB 90 (BZ)	51000000 C,D	2200000	pg/g	EPA-14 1668
PCB 91 (BZ)	8000000	110000	pg/g	EPA-14 1668
PCB 92 (BZ)	12000000 E	110000	pg/g	EPA-14 1668
PCB 93 (BZ)	64000000 C,D	2200000	pg/g	EPA-14 1668
PCB 94 (BZ)	250000	110000	pg/g	EPA-14 1668
PCB 95 (BZ)	64000000 C,D	2200000	pg/g	EPA-14 1668
PCB 96 (BZ)	460000	110000	pg/g	EPA-14 1668
PCB 97 (BZ)	60000000 C,D	2200000	pg/g	EPA-14 1668
PCB 98 (BZ)	1500000 C	110000	pg/g	EPA-14 1668
PCB 99 (BZ)	25000000 D	2200000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 101 (BZ)	51000000 C,D	2200000	pg/g	EPA-14 1668
PCB 102 (BZ)	1500000 C	110000	pg/g	EPA-14 1668
PCB 103 (BZ)	280000	110000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 105 (BZ)	19000000 C,D	220000	pg/g	EPA-14 1668
PCB 106 (BZ)	42000000 C,D	2200000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	3600000 C	110000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	3600000 C	110000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	3000000 C	110000	pg/g	EPA-14 1668
PCB 110 (BZ)	74000000 D	2200000	pg/g	EPA-14 1668
PCB 111 (BZ)	60000000 C,D	2200000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 114 (BZ)	980000	11000	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 117 (BZ)	60000000 C,D	2200000	pg/g	EPA-14 1668
PCB 118 (BZ)	42000000 C,D	220000	pg/g	EPA-14 1668
PCB 119 (BZ)	810000	110000	pg/g	EPA-14 1668
PCB 120 (BZ)	8600000 C	110000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 122 (BZ)	590000	110000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND G	860000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSE-D

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-003 Work Order #...: GK2TR1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	2700000	110000	pg/g	EPA-14 1668
PCB 125 (BZ)	60000000 C,D	2200000	pg/g	EPA-14 1668
PCB 126 (BZ)	220000	11000	pg/g	EPA-14 1668
PCB 127 (BZ)	19000000 C,D	2200000	pg/g	EPA-14 1668
PCB 128 (BZ)	10000000	110000	pg/g	EPA-14 1668
PCB 129 (BZ)	3800000	110000	pg/g	EPA-14 1668
PCB 130 (BZ)	3800000	110000	pg/g	EPA-14 1668
PCB 131 (BZ)	1000000 C	110000	pg/g	EPA-14 1668
PCB 132 (BZ)	17000000 C,E	110000	pg/g	EPA-14 1668
PCB 133 (BZ)	630000	110000	pg/g	EPA-14 1668
PCB 134 (BZ)	3700000	110000	pg/g	EPA-14 1668
PCB 135 (BZ)	8400000 C	110000	pg/g	EPA-14 1668
PCB 136 (BZ)	7100000	110000	pg/g	EPA-14 1668
PCB 137 (BZ)	3100000	110000	pg/g	EPA-14 1668
PCB 138 (BZ)	41000000 C,D	2200000	pg/g	EPA-14 1668
PCB 139 (BZ)	41000000 C,D	2200000	pg/g	EPA-14 1668
PCB 140 (BZ)	220000	110000	pg/g	EPA-14 1668
PCB 141 (BZ)	9200000	110000	pg/g	EPA-14 1668
PCB 142 (BZ)	1000000 C	110000	pg/g	EPA-14 1668
PCB 143 (BZ)	130000	110000	pg/g	EPA-14 1668
PCB 144 (BZ)	8400000 C	110000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 146 (BZ)	5900000	110000	pg/g	EPA-14 1668
PCB 147 (BZ)	1300000	110000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 149 (BZ)	41000000 C,D	2200000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 151 (BZ)	7400000	110000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 153 (BZ)	25000000 D	2200000	pg/g	EPA-14 1668
PCB 154 (BZ)	400000	110000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 156 (BZ)	4800000	11000	pg/g	EPA-14 1668
PCB 157 (BZ)	970000	11000	pg/g	EPA-14 1668
PCB 158 (BZ)	7100000 C	110000	pg/g	EPA-14 1668
PCB 159 (BZ)	120000	110000	pg/g	EPA-14 1668
PCB 160 (BZ)	7100000 C	110000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 162 (BZ)	260000	110000	pg/g	EPA-14 1668
PCB 163 (BZ)	41000000 C,D	2200000	pg/g	EPA-14 1668
PCB 164 (BZ)	41000000 C,D	2200000	pg/g	EPA-14 1668
PCB 165 (BZ)	1000000 C	110000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSE-D

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-003 Work Order #...: GK2TR1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	330000	110000	pg/g	EPA-14 1668
PCB 167 (BZ)	730000	11000	pg/g	EPA-14 1668
PCB 168 (BZ)	17000000 C,E	110000	pg/g	EPA-14 1668
PCB 169 (BZ)	ND	11000	pg/g	EPA-14 1668
PCB 170 (BZ)	4000000 C	11000	pg/g	EPA-14 1668
PCB 171 (BZ)	1600000	110000	pg/g	EPA-14 1668
PCB 172 (BZ)	660000 C	110000	pg/g	EPA-14 1668
PCB 173 (BZ)	170000	110000	pg/g	EPA-14 1668
PCB 174 (BZ)	3900000	110000	pg/g	EPA-14 1668
PCB 175 (BZ)	190000	110000	pg/g	EPA-14 1668
PCB 176 (BZ)	550000	110000	pg/g	EPA-14 1668
PCB 177 (BZ)	2400000	110000	pg/g	EPA-14 1668
PCB 178 (BZ)	610000	110000	pg/g	EPA-14 1668
PCB 179 (BZ)	1400000	110000	pg/g	EPA-14 1668
PCB 180 (BZ)	5600000	11000	pg/g	EPA-14 1668
PCB 181 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 182 (BZ)	2300000 C	110000	pg/g	EPA-14 1668
PCB 183 (BZ)	2300000	110000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 185 (BZ)	370000	110000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 187 (BZ)	2300000 C	110000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 189 (BZ)	190000	11000	pg/g	EPA-14 1668
PCB 190 (BZ)	4000000 C	110000	pg/g	EPA-14 1668
PCB 191 (BZ)	210000	110000	pg/g	EPA-14 1668
PCB 192 (BZ)	660000 C	110000	pg/g	EPA-14 1668
PCB 193 (BZ)	280000	110000	pg/g	EPA-14 1668
PCB 194 (BZ)	480000	110000	pg/g	EPA-14 1668
PCB 195 (BZ)	170000	110000	pg/g	EPA-14 1668
PCB 196 (BZ)	850000 C	110000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	110000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	110000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	750000	110000	pg/g	EPA-14 1668
PCB 202 (BZ)	120000	110000	pg/g	EPA-14 1668
PCB 203 (BZ)	850000 C	110000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 206 (BZ)	210000	110000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	110000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: PSE-D

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-003 Work Order #...: GK2TR1AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	110000	pg/g	EPA-14 1668
PCB 209 (BZ)	ND	110000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	122	(25 - 150)
13C12-PCB 15	124	(25 - 150)
13C12-PCB 28	136	(25 - 150)
13C12-PCB 77	138	(25 - 150)
13C12-PCB 81	144	(25 - 150)
13C12-PCB 118	160 *	(25 - 150)
13C12-PCB 114	164 *	(25 - 150)
13C12-PCB 105	164 *	(25 - 150)
13C12-PCB 126	168 *	(25 - 150)
13C12-PCB 167	142	(25 - 150)
13C12-PCB 156	148	(25 - 150)
13C12-PCB 169	126	(25 - 150)
13C12-PCB 180	155 *	(25 - 150)
13C12-PCB 170	156 *	(25 - 150)
13C12-PCB 189	157 *	(25 - 150)
13C12-PCB 194	140	(25 - 150)
13C12-PCB 208	134	(25 - 150)
13C12-PCB 209	128	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

C Co-eluting isomer.

D Result was obtained from the analysis of a dilution.

E Estimated result. Result concentration exceeds the calibration range.

JA The analyte was positively identified, but the quantitation is an estimate.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

* Surrogate recovery is outside stated control limits.

STL BUFFALO

Client Sample ID: TSW-700

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-004 Work Order #...: GK2TV2AC Matrix.....: SOLID
Date Sampled...: 07/08/04 Date Received..: 07/13/04
Prep Date.....: 07/28/04 Analysis Date..: 07/28/04
Prep Batch #...: 4210434
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	2700 JA	2000	pg/g	EPA-14 1668
PCB 2 (BZ)	6300 JA	2000	pg/g	EPA-14 1668
PCB 3 (BZ)	19000 JA	2000	pg/g	EPA-14 1668
PCB 4 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 5 (BZ)	9500 C,B	2000	pg/g	EPA-14 1668
PCB 6 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 7 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 8 (BZ)	9500 C,B	2000	pg/g	EPA-14 1668
PCB 9 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 10 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 11 (BZ)	4300	2000	pg/g	EPA-14 1668
PCB 12 (BZ)	31000 C	2000	pg/g	EPA-14 1668
PCB 13 (BZ)	31000 C	2000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 15 (BZ)	170000 B	2000	pg/g	EPA-14 1668
PCB 16 (BZ)	32000 C,B	2000	pg/g	EPA-14 1668
PCB 17 (BZ)	7800 B	2000	pg/g	EPA-14 1668
PCB 18 (BZ)	7200 B	2000	pg/g	EPA-14 1668
PCB 19 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 20 (BZ)	31000 C,B	2000	pg/g	EPA-14 1668
PCB 21 (BZ)	31000 C,B	2000	pg/g	EPA-14 1668
PCB 22 (BZ)	110000 B	2000	pg/g	EPA-14 1668
PCB 23 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 24 (BZ)	2900 C	2000	pg/g	EPA-14 1668
PCB 25 (BZ)	9800	2000	pg/g	EPA-14 1668
PCB 26 (BZ)	16000 B	2000	pg/g	EPA-14 1668
PCB 27 (BZ)	2900 C	2000	pg/g	EPA-14 1668
PCB 28 (BZ)	240000 E,B	2000	pg/g	EPA-14 1668
PCB 29 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 30 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 31 (BZ)	82000 B	2000	pg/g	EPA-14 1668
PCB 32 (BZ)	32000 C,B	2000	pg/g	EPA-14 1668
PCB 33 (BZ)	31000 C,B	2000	pg/g	EPA-14 1668
PCB 34 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 35 (BZ)	17000	2000	pg/g	EPA-14 1668
PCB 36 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 37 (BZ)	260000 E,B	2000	pg/g	EPA-14 1668
PCB 38 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 39 (BZ)	ND	2000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TSW-700

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-004 Work Order #...: GK2TV2AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 41 (BZ)	69000 C,B	2000	pg/g	EPA-14 1668
PCB 42 (BZ)	19000	2000	pg/g	EPA-14 1668
PCB 43 (BZ)	33000 C,B	2000	pg/g	EPA-14 1668
PCB 44 (BZ)	40000 B	2000	pg/g	EPA-14 1668
PCB 45 (BZ)	6500	2000	pg/g	EPA-14 1668
PCB 46 (BZ)	3400	2000	pg/g	EPA-14 1668
PCB 47 (BZ)	17000 C	2000	pg/g	EPA-14 1668
PCB 48 (BZ)	17000 C	2000	pg/g	EPA-14 1668
PCB 49 (BZ)	33000 C,B	2000	pg/g	EPA-14 1668
PCB 50 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 51 (BZ)	2200	2000	pg/g	EPA-14 1668
PCB 52 (BZ)	37000 C,B	2000	pg/g	EPA-14 1668
PCB 53 (BZ)	5000	2000	pg/g	EPA-14 1668
PCB 54 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 55 (BZ)	3500	2000	pg/g	EPA-14 1668
PCB 56 (BZ)	130000 C	2000	pg/g	EPA-14 1668
PCB 57 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 58 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 59 (BZ)	5200	2000	pg/g	EPA-14 1668
PCB 60 (BZ)	130000 C	2000	pg/g	EPA-14 1668
PCB 61 (BZ)	93000 C	2000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 63 (BZ)	5300	2000	pg/g	EPA-14 1668
PCB 64 (BZ)	69000 C,B	2000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 66 (BZ)	83000 C	2000	pg/g	EPA-14 1668
PCB 67 (BZ)	4400	2000	pg/g	EPA-14 1668
PCB 68 (BZ)	69000 C,B	2000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 70 (BZ)	80000	2000	pg/g	EPA-14 1668
PCB 71 (BZ)	17000	2000	pg/g	EPA-14 1668
PCB 72 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 73 (BZ)	37000 C,B	2000	pg/g	EPA-14 1668
PCB 74 (BZ)	93000 C	2000	pg/g	EPA-14 1668
PCB 75 (BZ)	17000 C	2000	pg/g	EPA-14 1668
PCB 76 (BZ)	83000 C	2000	pg/g	EPA-14 1668
PCB 77 (BZ)	41000 JA	200	pg/g	EPA-14 1668
PCB 78 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 79 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 80 (BZ)	83000 C	2000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND G	2700	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TSW-700

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-004 Work Order #...: GK2TV2AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	12000	2000	pg/g	EPA-14 1668
PCB 83 (BZ)	2300 C	2000	pg/g	EPA-14 1668
PCB 84 (BZ)	15000	2000	pg/g	EPA-14 1668
PCB 85 (BZ)	14000 C	2000	pg/g	EPA-14 1668
PCB 86 (BZ)	51000 C	2000	pg/g	EPA-14 1668
PCB 87 (BZ)	51000 C	2000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 89 (BZ)	27000 C	2000	pg/g	EPA-14 1668
PCB 90 (BZ)	27000 C	2000	pg/g	EPA-14 1668
PCB 91 (BZ)	7600	2000	pg/g	EPA-14 1668
PCB 92 (BZ)	5600	2000	pg/g	EPA-14 1668
PCB 93 (BZ)	32000 C	2000	pg/g	EPA-14 1668
PCB 94 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 95 (BZ)	32000 C	2000	pg/g	EPA-14 1668
PCB 96 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 97 (BZ)	51000 C	2000	pg/g	EPA-14 1668
PCB 98 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 99 (BZ)	22000	2000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 101 (BZ)	27000 C	2000	pg/g	EPA-14 1668
PCB 102 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 105 (BZ)	45000 C	200	pg/g	EPA-14 1668
PCB 106 (BZ)	72000 C	2000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	5600 C	2000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	5600 C	2000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	2300 C	2000	pg/g	EPA-14 1668
PCB 110 (BZ)	73000	2000	pg/g	EPA-14 1668
PCB 111 (BZ)	51000 C	2000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 114 (BZ)	2800	200	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 117 (BZ)	51000 C	2000	pg/g	EPA-14 1668
PCB 118 (BZ)	72000 C	200	pg/g	EPA-14 1668
PCB 119 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 120 (BZ)	14000 C	2000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 122 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND G	1200	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TSW-700

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-004 Work Order #...: GK2TV2AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 125 (BZ)	51000 C	2000	pg/g	EPA-14 1668
PCB 126 (BZ)	1000	200	pg/g	EPA-14 1668
PCB 127 (BZ)	45000 C	2000	pg/g	EPA-14 1668
PCB 128 (BZ)	12000	2000	pg/g	EPA-14 1668
PCB 129 (BZ)	2200	2000	pg/g	EPA-14 1668
PCB 130 (BZ)	2800	2000	pg/g	EPA-14 1668
PCB 131 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 132 (BZ)	15000 C	2000	pg/g	EPA-14 1668
PCB 133 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 134 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 135 (BZ)	3400 C	2000	pg/g	EPA-14 1668
PCB 136 (BZ)	3600	2000	pg/g	EPA-14 1668
PCB 137 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 138 (BZ)	29000 C	2000	pg/g	EPA-14 1668
PCB 139 (BZ)	18000 C	2000	pg/g	EPA-14 1668
PCB 140 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 141 (BZ)	3400	2000	pg/g	EPA-14 1668
PCB 142 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 144 (BZ)	3400 C	2000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 146 (BZ)	2600	2000	pg/g	EPA-14 1668
PCB 147 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 149 (BZ)	18000 C	2000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 151 (BZ)	2700	2000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 153 (BZ)	11000	2000	pg/g	EPA-14 1668
PCB 154 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 156 (BZ)	5800	200	pg/g	EPA-14 1668
PCB 157 (BZ)	1100	200	pg/g	EPA-14 1668
PCB 158 (BZ)	6500 C	2000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 160 (BZ)	6500 C	2000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 162 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 163 (BZ)	29000 C	2000	pg/g	EPA-14 1668
PCB 164 (BZ)	29000 C	2000	pg/g	EPA-14 1668
PCB 165 (BZ)	ND	2000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TSW-700

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-004 Work Order #...: GK2TV2AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 167 (BZ)	**1400**	**200**	**pg/g**	**EPA-14 1668**
PCB 168 (BZ)	**15000 C**	**2000**	**pg/g**	**EPA-14 1668**
PCB 169 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 170 (BZ)	**2600 C**	**200**	**pg/g**	**EPA-14 1668**
PCB 171 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 172 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 174 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 175 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 176 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 177 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 178 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 179 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 180 (BZ)	**2200**	**200**	**pg/g**	**EPA-14 1668**
PCB 181 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 182 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 183 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 185 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 187 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 189 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 190 (BZ)	**2600 C**	**2000**	**pg/g**	**EPA-14 1668**
PCB 191 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 192 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 193 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 194 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 195 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 196 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 202 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 203 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 206 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	2000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TSW-700

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-004 Work Order #...: GK2TV2AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 209 (BZ)	ND	2000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	0.80 *	(25 - 150)
13C12-PCB 15	19 *	(25 - 150)
13C12-PCB 28	44	(25 - 150)
13C12-PCB 77	79	(25 - 150)
13C12-PCB 81	75	(25 - 150)
13C12-PCB 118	87	(25 - 150)
13C12-PCB 114	84	(25 - 150)
13C12-PCB 105	84	(25 - 150)
13C12-PCB 126	85	(25 - 150)
13C12-PCB 167	93	(25 - 150)
13C12-PCB 156	92	(25 - 150)
13C12-PCB 169	82	(25 - 150)
13C12-PCB 180	97	(25 - 150)
13C12-PCB 170	97	(25 - 150)
13C12-PCB 189	98	(25 - 150)
13C12-PCB 194	101	(25 - 150)
13C12-PCB 208	90	(25 - 150)
13C12-PCB 209	85	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

JA The analyte was positively identified, but the quantitation is an estimate.

C Co-eluting isomer.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Estimated result. Result concentration exceeds the calibration range.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

* Surrogate recovery is outside stated control limits.

STL BUFFALO

Client Sample ID: TSW-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-005 Work Order #...: GK2T02AC Matrix.....: SOLID
Date Sampled...: 07/08/04 Date Received..: 07/13/04
Prep Date.....: 07/28/04 Analysis Date..: 07/28/04
Prep Batch #...: 4210434
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 2 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 3 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 4 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 5 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 6 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 7 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 8 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 9 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 10 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 11 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 12 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 13 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 15 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 16 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 17 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 18 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 19 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 20 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 21 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 22 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 23 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 24 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 25 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 26 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 27 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 28 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 29 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 30 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 31 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 32 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 33 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 34 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 35 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 36 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 37 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 38 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 39 (BZ)	ND	2000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TSW-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-005 Work Order #...: GK2T02AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 41 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 42 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 43 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 44 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 45 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 46 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 47 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 48 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 49 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 50 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 51 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 52 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 53 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 54 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 55 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 56 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 57 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 58 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 59 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 60 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 61 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 63 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 64 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 66 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 67 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 68 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 70 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 71 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 72 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 73 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 74 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 75 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 76 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 77 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 78 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 79 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 80 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND	200	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TSW-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-005 Work Order #...: GK2T02AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 83 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 84 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 85 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 86 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 87 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 89 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 90 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 91 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 92 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 93 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 94 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 95 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 96 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 97 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 98 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 99 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 101 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 102 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 105 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 106 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 110 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 111 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 114 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 117 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 118 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 119 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 120 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 122 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND	200	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TSW-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-005 Work Order #...: GK2T02AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 125 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 126 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 127 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 128 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 129 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 130 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 131 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 132 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 133 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 134 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 135 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 136 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 137 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 138 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 139 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 140 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 141 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 142 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 144 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 146 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 147 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 149 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 151 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 153 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 154 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 156 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 157 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 158 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 160 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 162 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 163 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 164 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 165 (BZ)	ND	2000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TSW-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-005 Work Order #...: GK2T02AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 167 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 168 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 169 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 170 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 171 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 172 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 174 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 175 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 176 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 177 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 178 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 179 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 180 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 181 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 182 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 183 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 185 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 187 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 189 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 190 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 191 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 192 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 193 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 194 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 195 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 196 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 202 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 203 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 206 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	2000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TSW-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-005 Work Order #...: GK2T02AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 209 (BZ)	ND	2000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	52	(25 - 150)
13C12-PCB 15	70	(25 - 150)
13C12-PCB 28	69	(25 - 150)
13C12-PCB 77	90	(25 - 150)
13C12-PCB 81	85	(25 - 150)
13C12-PCB 118	100	(25 - 150)
13C12-PCB 114	93	(25 - 150)
13C12-PCB 105	91	(25 - 150)
13C12-PCB 126	89	(25 - 150)
13C12-PCB 167	94	(25 - 150)
13C12-PCB 156	95	(25 - 150)
13C12-PCB 169	83	(25 - 150)
13C12-PCB 180	99	(25 - 150)
13C12-PCB 170	104	(25 - 150)
13C12-PCB 189	101	(25 - 150)
13C12-PCB 194	104	(25 - 150)
13C12-PCB 208	91	(25 - 150)
13C12-PCB 209	85	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL BUFFALO

Client Sample ID: TST-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-006 Work Order #...: GK2T22AC Matrix.....: SOLID
Date Sampled...: 07/08/04 Date Received..: 07/13/04
Prep Date.....: 07/28/04 Analysis Date..: 07/29/04
Prep Batch #...: 4210434
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 2 (BZ)	6500	2000	pg/g	EPA-14 1668
PCB 3 (BZ)	10000	2000	pg/g	EPA-14 1668
PCB 4 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 5 (BZ)	8100 C,B	2000	pg/g	EPA-14 1668
PCB 6 (BZ)	3100	2000	pg/g	EPA-14 1668
PCB 7 (BZ)	2600 C	2000	pg/g	EPA-14 1668
PCB 8 (BZ)	8100 C,B	2000	pg/g	EPA-14 1668
PCB 9 (BZ)	2600 C	2000	pg/g	EPA-14 1668
PCB 10 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 11 (BZ)	2600	2000	pg/g	EPA-14 1668
PCB 12 (BZ)	13000 C	2000	pg/g	EPA-14 1668
PCB 13 (BZ)	13000 C	2000	pg/g	EPA-14 1668
PCB 14 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 15 (BZ)	14000 B	2000	pg/g	EPA-14 1668
PCB 16 (BZ)	5400 C,B	2000	pg/g	EPA-14 1668
PCB 17 (BZ)	3000 B	2000	pg/g	EPA-14 1668
PCB 18 (BZ)	3600	2000	pg/g	EPA-14 1668
PCB 19 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 20 (BZ)	6100 C,B	2000	pg/g	EPA-14 1668
PCB 21 (BZ)	6100 C,B	2000	pg/g	EPA-14 1668
PCB 22 (BZ)	5300 B	2000	pg/g	EPA-14 1668
PCB 23 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 24 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 25 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 26 (BZ)	2400 B	2000	pg/g	EPA-14 1668
PCB 27 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 28 (BZ)	13000 B	2000	pg/g	EPA-14 1668
PCB 29 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 30 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 31 (BZ)	9900 B	2000	pg/g	EPA-14 1668
PCB 32 (BZ)	5400 C,B	2000	pg/g	EPA-14 1668
PCB 33 (BZ)	6100 C,B	2000	pg/g	EPA-14 1668
PCB 34 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 35 (BZ)	2100	2000	pg/g	EPA-14 1668
PCB 36 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 37 (BZ)	8000 B	2000	pg/g	EPA-14 1668
PCB 38 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 39 (BZ)	ND	2000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TST-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-006 Work Order #...: GK2T22AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 41 (BZ)	4500 C,B	2000	pg/g	EPA-14 1668
PCB 42 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 43 (BZ)	4100 C,B	2000	pg/g	EPA-14 1668
PCB 44 (BZ)	4000 B	2000	pg/g	EPA-14 1668
PCB 45 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 46 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 47 (BZ)	2100 C	2000	pg/g	EPA-14 1668
PCB 48 (BZ)	2100 C	2000	pg/g	EPA-14 1668
PCB 49 (BZ)	4100 C,B	2000	pg/g	EPA-14 1668
PCB 50 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 51 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 52 (BZ)	4200 C,B	2000	pg/g	EPA-14 1668
PCB 53 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 54 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 55 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 56 (BZ)	3800 C	2000	pg/g	EPA-14 1668
PCB 57 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 58 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 59 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 60 (BZ)	3800 C	2000	pg/g	EPA-14 1668
PCB 61 (BZ)	3900 C	2000	pg/g	EPA-14 1668
PCB 62 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 63 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 64 (BZ)	4500 C,B	2000	pg/g	EPA-14 1668
PCB 65 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 66 (BZ)	3100 C	2000	pg/g	EPA-14 1668
PCB 67 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 68 (BZ)	4500 C,B	2000	pg/g	EPA-14 1668
PCB 69 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 70 (BZ)	4000	2000	pg/g	EPA-14 1668
PCB 71 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 72 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 73 (BZ)	4200 C,B	2000	pg/g	EPA-14 1668
PCB 74 (BZ)	3900 C	2000	pg/g	EPA-14 1668
PCB 75 (BZ)	2100 C	2000	pg/g	EPA-14 1668
PCB 76 (BZ)	3100 C	2000	pg/g	EPA-14 1668
PCB 77 (BZ)	1100	200	pg/g	EPA-14 1668
PCB 78 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 79 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 80 (BZ)	3100 C	2000	pg/g	EPA-14 1668
PCB 81 (BZ)	ND	200	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TST-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-006 Work Order #...: GK2T22AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 83 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 84 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 85 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 86 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 87 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 88 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 89 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 90 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 91 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 92 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 93 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 94 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 95 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 96 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 97 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 98 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 99 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 100 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 101 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 102 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 103 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 104 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 105 (BZ)	**410 C**	**200**	**pg/g**	**EPA-14 1668**
PCB 106 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 110 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 111 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 112 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 113 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 114 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 115 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 116 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 117 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 118 (BZ)	**650 C**	**200**	**pg/g**	**EPA-14 1668**
PCB 119 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 120 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 121 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 122 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 123 (BZ)	ND	200	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TST-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-006 Work Order #...: GK2T22AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 125 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 126 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 127 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 128 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 129 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 130 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 131 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 132 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 133 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 134 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 135 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 136 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 137 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 138 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 139 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 140 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 141 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 142 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 143 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 144 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 145 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 146 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 147 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 148 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 149 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 150 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 151 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 152 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 153 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 154 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 155 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 156 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 157 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 158 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 159 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 160 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 161 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 162 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 163 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 164 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 165 (BZ)	ND	2000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TST-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-006 Work Order #...: GK2T22AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 167 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 168 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 169 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 170 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 171 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 172 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 173 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 174 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 175 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 176 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 177 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 178 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 179 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 180 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 181 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 182 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 183 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 184 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 185 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 186 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 187 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 188 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 189 (BZ)	ND	200	pg/g	EPA-14 1668
PCB 190 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 191 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 192 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 193 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 194 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 195 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 196 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 197 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 198 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	2000	pg/g	EPA-14 1668
PCB 202 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 203 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 204 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 205 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 206 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 207 (BZ)	ND	2000	pg/g	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: TST-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-006 Work Order #...: GK2T22AC Matrix.....: SOLID

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	2000	pg/g	EPA-14 1668
PCB 209 (BZ)	ND	2000	pg/g	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 3	40	(25 - 150)
13C12-PCB 15	65	(25 - 150)
13C12-PCB 28	70	(25 - 150)
13C12-PCB 77	80	(25 - 150)
13C12-PCB 81	83	(25 - 150)
13C12-PCB 118	90	(25 - 150)
13C12-PCB 114	86	(25 - 150)
13C12-PCB 105	83	(25 - 150)
13C12-PCB 126	86	(25 - 150)
13C12-PCB 167	89	(25 - 150)
13C12-PCB 156	91	(25 - 150)
13C12-PCB 169	81	(25 - 150)
13C12-PCB 180	101	(25 - 150)
13C12-PCB 170	101	(25 - 150)
13C12-PCB 189	98	(25 - 150)
13C12-PCB 194	101	(25 - 150)
13C12-PCB 208	90	(25 - 150)
13C12-PCB 209	83	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

C Co-eluting isomer.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL BUFFALO

Client Sample ID: HFE-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-007 Work Order #...: GK2T31AA Matrix.....: AIR
Date Sampled...: 07/08/04 Date Received..: 07/13/04
Prep Date.....: 07/19/04 Analysis Date..: 07/22/04
Prep Batch #...: 4203202
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	220000	100000	pg	EPA-14 1668
PCB 2 (BZ)	490000	100000	pg	EPA-14 1668
PCB 3 (BZ)	1000000	100000	pg	EPA-14 1668
PCB 4 (BZ)	820000 C	100000	pg	EPA-14 1668
PCB 5 (BZ)	2500000 C	100000	pg	EPA-14 1668
PCB 6 (BZ)	850000	100000	pg	EPA-14 1668
PCB 7 (BZ)	470000 C	100000	pg	EPA-14 1668
PCB 8 (BZ)	2500000 C	100000	pg	EPA-14 1668
PCB 9 (BZ)	470000 C	100000	pg	EPA-14 1668
PCB 10 (BZ)	820000 C	100000	pg	EPA-14 1668
PCB 11 (BZ)	380000	100000	pg	EPA-14 1668
PCB 12 (BZ)	2200000 C	100000	pg	EPA-14 1668
PCB 13 (BZ)	2200000 C	100000	pg	EPA-14 1668
PCB 14 (BZ)	ND	100000	pg	EPA-14 1668
PCB 15 (BZ)	5300000	100000	pg	EPA-14 1668
PCB 16 (BZ)	2800000 C	100000	pg	EPA-14 1668
PCB 17 (BZ)	1600000	100000	pg	EPA-14 1668
PCB 18 (BZ)	2600000	100000	pg	EPA-14 1668
PCB 19 (BZ)	480000	100000	pg	EPA-14 1668
PCB 20 (BZ)	3000000 C	100000	pg	EPA-14 1668
PCB 21 (BZ)	3000000 C	100000	pg	EPA-14 1668
PCB 22 (BZ)	3300000	100000	pg	EPA-14 1668
PCB 23 (BZ)	ND	100000	pg	EPA-14 1668
PCB 24 (BZ)	440000 C	100000	pg	EPA-14 1668
PCB 25 (BZ)	800000	100000	pg	EPA-14 1668
PCB 26 (BZ)	1400000	100000	pg	EPA-14 1668
PCB 27 (BZ)	440000 C	100000	pg	EPA-14 1668
PCB 28 (BZ)	7000000	100000	pg	EPA-14 1668
PCB 29 (BZ)	ND	100000	pg	EPA-14 1668
PCB 30 (BZ)	ND	100000	pg	EPA-14 1668
PCB 31 (BZ)	3700000	100000	pg	EPA-14 1668
PCB 32 (BZ)	2800000 C	100000	pg	EPA-14 1668
PCB 33 (BZ)	3000000 C	100000	pg	EPA-14 1668
PCB 34 (BZ)	ND	100000	pg	EPA-14 1668
PCB 35 (BZ)	760000	100000	pg	EPA-14 1668
PCB 36 (BZ)	ND	100000	pg	EPA-14 1668
PCB 37 (BZ)	5100000	100000	pg	EPA-14 1668
PCB 38 (BZ)	ND	100000	pg	EPA-14 1668
PCB 39 (BZ)	ND	100000	pg	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: HFE-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-007 Work Order #...: GK2T31AA Matrix.....: AIR

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	350000	100000	pg	EPA-14 1668
PCB 41 (BZ)	1400000 C	100000	pg	EPA-14 1668
PCB 42 (BZ)	740000	100000	pg	EPA-14 1668
PCB 43 (BZ)	1700000 C	100000	pg	EPA-14 1668
PCB 44 (BZ)	1700000	100000	pg	EPA-14 1668
PCB 45 (BZ)	390000	100000	pg	EPA-14 1668
PCB 46 (BZ)	160000	100000	pg	EPA-14 1668
PCB 47 (BZ)	770000 C	100000	pg	EPA-14 1668
PCB 48 (BZ)	770000 C	100000	pg	EPA-14 1668
PCB 49 (BZ)	1700000 C	100000	pg	EPA-14 1668
PCB 50 (BZ)	ND	100000	pg	EPA-14 1668
PCB 51 (BZ)	110000	100000	pg	EPA-14 1668
PCB 52 (BZ)	ND	100000	pg	EPA-14 1668
PCB 53 (BZ)	340000	100000	pg	EPA-14 1668
PCB 54 (BZ)	ND	100000	pg	EPA-14 1668
PCB 55 (BZ)	120000	100000	pg	EPA-14 1668
PCB 56 (BZ)	2700000 C	100000	pg	EPA-14 1668
PCB 57 (BZ)	ND	100000	pg	EPA-14 1668
PCB 58 (BZ)	ND	100000	pg	EPA-14 1668
PCB 59 (BZ)	190000	100000	pg	EPA-14 1668
PCB 60 (BZ)	2700000 C	100000	pg	EPA-14 1668
PCB 61 (BZ)	1700000 C	100000	pg	EPA-14 1668
PCB 62 (BZ)	ND	100000	pg	EPA-14 1668
PCB 63 (BZ)	ND	100000	pg	EPA-14 1668
PCB 64 (BZ)	1400000 C	100000	pg	EPA-14 1668
PCB 65 (BZ)	ND	100000	pg	EPA-14 1668
PCB 66 (BZ)	2300000 C	100000	pg	EPA-14 1668
PCB 67 (BZ)	210000	100000	pg	EPA-14 1668
PCB 68 (BZ)	1400000 C	100000	pg	EPA-14 1668
PCB 69 (BZ)	ND	100000	pg	EPA-14 1668
PCB 70 (BZ)	3400000	100000	pg	EPA-14 1668
PCB 71 (BZ)	600000	100000	pg	EPA-14 1668
PCB 72 (BZ)	ND	100000	pg	EPA-14 1668
PCB 73 (BZ)	ND	100000	pg	EPA-14 1668
PCB 74 (BZ)	1700000 C	100000	pg	EPA-14 1668
PCB 75 (BZ)	770000 C	100000	pg	EPA-14 1668
PCB 76 (BZ)	2300000 C	100000	pg	EPA-14 1668
PCB 77 (BZ)	ND G	590000	pg	EPA-14 1668
PCB 78 (BZ)	ND	100000	pg	EPA-14 1668
PCB 79 (BZ)	ND	100000	pg	EPA-14 1668
PCB 80 (BZ)	2300000 C	100000	pg	EPA-14 1668
PCB 81 (BZ)	ND G	53000	pg	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: HFE-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-007 Work Order #...: GK2T31AA Matrix.....: AIR

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	250000	100000	pg	EPA-14 1668
PCB 83 (BZ)	ND	100000	pg	EPA-14 1668
PCB 84 (BZ)	350000	100000	pg	EPA-14 1668
PCB 85 (BZ)	290000 C	100000	pg	EPA-14 1668
PCB 86 (BZ)	1400000 C	100000	pg	EPA-14 1668
PCB 87 (BZ)	1400000 C	100000	pg	EPA-14 1668
PCB 88 (BZ)	ND	100000	pg	EPA-14 1668
PCB 89 (BZ)	1000000 C	100000	pg	EPA-14 1668
PCB 90 (BZ)	1000000 C	100000	pg	EPA-14 1668
PCB 91 (BZ)	190000	100000	pg	EPA-14 1668
PCB 92 (BZ)	260000	100000	pg	EPA-14 1668
PCB 93 (BZ)	1000000 C	100000	pg	EPA-14 1668
PCB 94 (BZ)	ND	100000	pg	EPA-14 1668
PCB 95 (BZ)	1000000 C	100000	pg	EPA-14 1668
PCB 96 (BZ)	ND	100000	pg	EPA-14 1668
PCB 97 (BZ)	1400000 C	100000	pg	EPA-14 1668
PCB 98 (BZ)	ND	100000	pg	EPA-14 1668
PCB 99 (BZ)	690000	100000	pg	EPA-14 1668
PCB 100 (BZ)	ND	100000	pg	EPA-14 1668
PCB 101 (BZ)	1000000 C	100000	pg	EPA-14 1668
PCB 102 (BZ)	ND	100000	pg	EPA-14 1668
PCB 103 (BZ)	ND	100000	pg	EPA-14 1668
PCB 104 (BZ)	ND	100000	pg	EPA-14 1668
PCB 105 (BZ)	880000 C	10000	pg	EPA-14 1668
PCB 106 (BZ)	1800000 C	100000	pg	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	150000 C	100000	pg	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	150000 C	100000	pg	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	ND	100000	pg	EPA-14 1668
PCB 110 (BZ)	1800000	100000	pg	EPA-14 1668
PCB 111 (BZ)	1400000 C	100000	pg	EPA-14 1668
PCB 112 (BZ)	ND	100000	pg	EPA-14 1668
PCB 113 (BZ)	ND	100000	pg	EPA-14 1668
PCB 114 (BZ)	36000	10000	pg	EPA-14 1668
PCB 115 (BZ)	ND	100000	pg	EPA-14 1668
PCB 116 (BZ)	ND	100000	pg	EPA-14 1668
PCB 117 (BZ)	1400000 C	100000	pg	EPA-14 1668
PCB 118 (BZ)	1800000 C	10000	pg	EPA-14 1668
PCB 119 (BZ)	ND	100000	pg	EPA-14 1668
PCB 120 (BZ)	290000 C	100000	pg	EPA-14 1668
PCB 121 (BZ)	ND	100000	pg	EPA-14 1668
PCB 122 (BZ)	ND	100000	pg	EPA-14 1668
PCB 123 (BZ)	ND G	36000	pg	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: HFE-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-007 Work Order #...: GK2T31AA Matrix.....: AIR

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	ND	100000	pg	EPA-14 1668
PCB 125 (BZ)	1400000 C	100000	pg	EPA-14 1668
PCB 126 (BZ)	21000	10000	pg	EPA-14 1668
PCB 127 (BZ)	880000 C	100000	pg	EPA-14 1668
PCB 128 (BZ)	250000	100000	pg	EPA-14 1668
PCB 129 (BZ)	ND	100000	pg	EPA-14 1668
PCB 130 (BZ)	ND	100000	pg	EPA-14 1668
PCB 131 (BZ)	ND	100000	pg	EPA-14 1668
PCB 132 (BZ)	330000 C	100000	pg	EPA-14 1668
PCB 133 (BZ)	ND	100000	pg	EPA-14 1668
PCB 134 (BZ)	ND	100000	pg	EPA-14 1668
PCB 135 (BZ)	140000 C	100000	pg	EPA-14 1668
PCB 136 (BZ)	100000	100000	pg	EPA-14 1668
PCB 137 (BZ)	ND	100000	pg	EPA-14 1668
PCB 138 (BZ)	1100000 C	100000	pg	EPA-14 1668
PCB 139 (BZ)	640000 C	100000	pg	EPA-14 1668
PCB 140 (BZ)	ND	100000	pg	EPA-14 1668
PCB 141 (BZ)	190000	100000	pg	EPA-14 1668
PCB 142 (BZ)	ND	100000	pg	EPA-14 1668
PCB 143 (BZ)	ND	100000	pg	EPA-14 1668
PCB 144 (BZ)	140000 C	100000	pg	EPA-14 1668
PCB 145 (BZ)	ND	100000	pg	EPA-14 1668
PCB 146 (BZ)	130000	100000	pg	EPA-14 1668
PCB 147 (BZ)	ND	100000	pg	EPA-14 1668
PCB 148 (BZ)	ND	100000	pg	EPA-14 1668
PCB 149 (BZ)	640000 C	100000	pg	EPA-14 1668
PCB 150 (BZ)	ND	100000	pg	EPA-14 1668
PCB 151 (BZ)	120000	100000	pg	EPA-14 1668
PCB 152 (BZ)	ND	100000	pg	EPA-14 1668
PCB 153 (BZ)	630000	100000	pg	EPA-14 1668
PCB 154 (BZ)	ND	100000	pg	EPA-14 1668
PCB 155 (BZ)	ND	100000	pg	EPA-14 1668
PCB 156 (BZ)	170000	10000	pg	EPA-14 1668
PCB 157 (BZ)	38000	10000	pg	EPA-14 1668
PCB 158 (BZ)	160000 C	100000	pg	EPA-14 1668
PCB 159 (BZ)	ND	100000	pg	EPA-14 1668
PCB 160 (BZ)	160000 C	100000	pg	EPA-14 1668
PCB 161 (BZ)	ND	100000	pg	EPA-14 1668
PCB 162 (BZ)	ND	100000	pg	EPA-14 1668
PCB 163 (BZ)	1100000 C	100000	pg	EPA-14 1668
PCB 164 (BZ)	1100000 C	100000	pg	EPA-14 1668
PCB 165 (BZ)	ND	100000	pg	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: HFE-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-007 Work Order #...: GK2T31AA Matrix.....: AIR

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	100000	pg	EPA-14 1668
PCB 167 (BZ)	**37000**	**10000**	**pg**	**EPA-14 1668**
PCB 168 (BZ)	**330000 C**	**100000**	**pg**	**EPA-14 1668**
PCB 169 (BZ)	ND	10000	pg	EPA-14 1668
PCB 170 (BZ)	**100000 C**	**10000**	**pg**	**EPA-14 1668**
PCB 171 (BZ)	ND	100000	pg	EPA-14 1668
PCB 172 (BZ)	ND	100000	pg	EPA-14 1668
PCB 173 (BZ)	ND	100000	pg	EPA-14 1668
PCB 174 (BZ)	ND	100000	pg	EPA-14 1668
PCB 175 (BZ)	ND	100000	pg	EPA-14 1668
PCB 176 (BZ)	ND	100000	pg	EPA-14 1668
PCB 177 (BZ)	ND	100000	pg	EPA-14 1668
PCB 178 (BZ)	ND	100000	pg	EPA-14 1668
PCB 179 (BZ)	ND	100000	pg	EPA-14 1668
PCB 180 (BZ)	**140000**	**10000**	**pg**	**EPA-14 1668**
PCB 181 (BZ)	ND	100000	pg	EPA-14 1668
PCB 182 (BZ)	ND	100000	pg	EPA-14 1668
PCB 183 (BZ)	ND	100000	pg	EPA-14 1668
PCB 184 (BZ)	ND	100000	pg	EPA-14 1668
PCB 185 (BZ)	ND	100000	pg	EPA-14 1668
PCB 186 (BZ)	ND	100000	pg	EPA-14 1668
PCB 187 (BZ)	ND	100000	pg	EPA-14 1668
PCB 188 (BZ)	ND	100000	pg	EPA-14 1668
PCB 189 (BZ)	ND	10000	pg	EPA-14 1668
PCB 190 (BZ)	ND	100000	pg	EPA-14 1668
PCB 191 (BZ)	ND	100000	pg	EPA-14 1668
PCB 192 (BZ)	ND	100000	pg	EPA-14 1668
PCB 193 (BZ)	ND	100000	pg	EPA-14 1668
PCB 194 (BZ)	ND	100000	pg	EPA-14 1668
PCB 195 (BZ)	ND	100000	pg	EPA-14 1668
PCB 196 (BZ)	ND	100000	pg	EPA-14 1668
PCB 197 (BZ)	ND	100000	pg	EPA-14 1668
PCB 198 (BZ)	ND	100000	pg	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	100000	pg	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	100000	pg	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	100000	pg	EPA-14 1668
PCB 202 (BZ)	ND	100000	pg	EPA-14 1668
PCB 203 (BZ)	ND	100000	pg	EPA-14 1668
PCB 204 (BZ)	ND	100000	pg	EPA-14 1668
PCB 205 (BZ)	ND	100000	pg	EPA-14 1668
PCB 206 (BZ)	ND	100000	pg	EPA-14 1668
PCB 207 (BZ)	ND	100000	pg	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: HFE-900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-007 Work Order #...: GK2T31AA Matrix.....: AIR

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	100000	pg	EPA-14 1668
PCB 209 (BZ)	ND	100000	pg	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-3,4,4',5-TCB	95	(25 - 150)
13C-4-Chlorobiphenyl	60	(25 - 150)
13C-4,4'-DiCB	92	(25 - 150)
13C-2,4,4'-TriCB	84	(25 - 150)
13C-3,3',4,4'-TCB	97	(25 - 150)
13C-2,3',4,4',5-PeCB	113	(25 - 150)
13C-3,3',4,4',5-PeCB	123	(25 - 150)
13C-3,3',4,4',5,5'-HxCB	98	(25 - 150)
13C-2,2',3,4,4',5,5'-HpCB	117	(25 - 150)
13C-2,2',3,3',4,4',5,5'-OCB	108	(25 - 150)
13C-DCB	101	(25 - 150)

NOTE(S):

C Co-eluting isomer.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

STL BUFFALO

Client Sample ID: HFM900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-008 Work Order #...: GK2T51AA Matrix.....: AIR
Date Sampled...: 07/08/04 Date Received..: 07/13/04
Prep Date.....: 07/19/04 Analysis Date..: 07/29/04
Prep Batch #...: 4203202
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 1 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 2 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 3 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 4 (BZ)	510000000 C	100000000	pg	EPA-14 1668
PCB 5 (BZ)	1500000000 C	100000000	pg	EPA-14 1668
PCB 6 (BZ)	490000000	100000000	pg	EPA-14 1668
PCB 7 (BZ)	210000000 C	100000000	pg	EPA-14 1668
PCB 8 (BZ)	1500000000 C	100000000	pg	EPA-14 1668
PCB 9 (BZ)	210000000 C	100000000	pg	EPA-14 1668
PCB 10 (BZ)	510000000 C	100000000	pg	EPA-14 1668
PCB 11 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 12 (BZ)	110000000 C	100000000	pg	EPA-14 1668
PCB 13 (BZ)	110000000 C	100000000	pg	EPA-14 1668
PCB 14 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 15 (BZ)	720000000	100000000	pg	EPA-14 1668
PCB 16 (BZ)	1500000000 C	100000000	pg	EPA-14 1668
PCB 17 (BZ)	1000000000	100000000	pg	EPA-14 1668
PCB 18 (BZ)	1400000000	100000000	pg	EPA-14 1668
PCB 19 (BZ)	280000000	100000000	pg	EPA-14 1668
PCB 20 (BZ)	2000000000 C	100000000	pg	EPA-14 1668
PCB 21 (BZ)	2000000000 C	100000000	pg	EPA-14 1668
PCB 22 (BZ)	1200000000	100000000	pg	EPA-14 1668
PCB 23 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 24 (BZ)	210000000 C	100000000	pg	EPA-14 1668
PCB 25 (BZ)	240000000	100000000	pg	EPA-14 1668
PCB 26 (BZ)	590000000	100000000	pg	EPA-14 1668
PCB 27 (BZ)	210000000 C	100000000	pg	EPA-14 1668
PCB 28 (BZ)	2300000000	100000000	pg	EPA-14 1668
PCB 29 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 30 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 31 (BZ)	2600000000	100000000	pg	EPA-14 1668
PCB 32 (BZ)	1500000000 C	100000000	pg	EPA-14 1668
PCB 33 (BZ)	2000000000 C	100000000	pg	EPA-14 1668
PCB 34 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 35 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 36 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 37 (BZ)	750000000	100000000	pg	EPA-14 1668
PCB 38 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 39 (BZ)	ND	100000000	pg	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: HPM900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-008 Work Order #...: GK2T51AA Matrix.....: AIR

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 40 (BZ)	330000000	100000000	pg	EPA-14 1668
PCB 41 (BZ)	1200000000 C	100000000	pg	EPA-14 1668
PCB 42 (BZ)	520000000	100000000	pg	EPA-14 1668
PCB 43 (BZ)	1400000000 C	100000000	pg	EPA-14 1668
PCB 44 (BZ)	1500000000	100000000	pg	EPA-14 1668
PCB 45 (BZ)	440000000	100000000	pg	EPA-14 1668
PCB 46 (BZ)	180000000	100000000	pg	EPA-14 1668
PCB 47 (BZ)	720000000 C	100000000	pg	EPA-14 1668
PCB 48 (BZ)	720000000 C	100000000	pg	EPA-14 1668
PCB 49 (BZ)	1400000000 C	100000000	pg	EPA-14 1668
PCB 50 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 51 (BZ)	120000000	100000000	pg	EPA-14 1668
PCB 52 (BZ)	1600000000 C	100000000	pg	EPA-14 1668
PCB 53 (BZ)	370000000	100000000	pg	EPA-14 1668
PCB 54 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 55 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 56 (BZ)	1200000000 C	100000000	pg	EPA-14 1668
PCB 57 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 58 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 59 (BZ)	190000000	100000000	pg	EPA-14 1668
PCB 60 (BZ)	1200000000 C	100000000	pg	EPA-14 1668
PCB 61 (BZ)	780000000 C	100000000	pg	EPA-14 1668
PCB 62 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 63 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 64 (BZ)	1200000000 C	100000000	pg	EPA-14 1668
PCB 65 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 66 (BZ)	940000000 C	100000000	pg	EPA-14 1668
PCB 67 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 68 (BZ)	1200000000 C	100000000	pg	EPA-14 1668
PCB 69 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 70 (BZ)	1400000000	100000000	pg	EPA-14 1668
PCB 71 (BZ)	520000000	100000000	pg	EPA-14 1668
PCB 72 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 73 (BZ)	1600000000 C	100000000	pg	EPA-14 1668
PCB 74 (BZ)	780000000 C	100000000	pg	EPA-14 1668
PCB 75 (BZ)	720000000 C	100000000	pg	EPA-14 1668
PCB 76 (BZ)	940000000 C	100000000	pg	EPA-14 1668
PCB 77 (BZ)	ND G	100000000	pg	EPA-14 1668
PCB 78 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 79 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 80 (BZ)	940000000 C	100000000	pg	EPA-14 1668
PCB 81 (BZ)	ND G	13000000	pg	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: HFM900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-008 Work Order #...: GK2T51AA Matrix.....: AIR

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 82 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 83 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 84 (BZ)	150000000	100000000	pg	EPA-14 1668
PCB 85 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 86 (BZ)	380000000 C	100000000	pg	EPA-14 1668
PCB 87 (BZ)	380000000 C	100000000	pg	EPA-14 1668
PCB 88 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 89 (BZ)	250000000 C	100000000	pg	EPA-14 1668
PCB 90 (BZ)	250000000 C	100000000	pg	EPA-14 1668
PCB 91 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 92 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 93 (BZ)	330000000 C	100000000	pg	EPA-14 1668
PCB 94 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 95 (BZ)	330000000 C	100000000	pg	EPA-14 1668
PCB 96 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 97 (BZ)	380000000 C	100000000	pg	EPA-14 1668
PCB 98 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 99 (BZ)	200000000	100000000	pg	EPA-14 1668
PCB 100 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 101 (BZ)	250000000 C	100000000	pg	EPA-14 1668
PCB 102 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 103 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 104 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 105 (BZ)	150000000 C	10000000	pg	EPA-14 1668
PCB 106 (BZ)	220000000 C	100000000	pg	EPA-14 1668
PCB 107 (BZ)/109 (IUPAC)	ND	100000000	pg	EPA-14 1668
PCB 108 (BZ)/107 (IUPAC)	ND	100000000	pg	EPA-14 1668
PCB 109 (BZ)/108 (IUPAC)	ND	100000000	pg	EPA-14 1668
PCB 110 (BZ)	360000000	100000000	pg	EPA-14 1668
PCB 111 (BZ)	380000000 C	100000000	pg	EPA-14 1668
PCB 112 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 113 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 114 (BZ)	ND	10000000	pg	EPA-14 1668
PCB 115 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 116 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 117 (BZ)	380000000 C	100000000	pg	EPA-14 1668
PCB 118 (BZ)	220000000 C	10000000	pg	EPA-14 1668
PCB 119 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 120 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 121 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 122 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 123 (BZ)	ND	10000000	pg	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: HFM900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-008 Work Order #...: GK2T51AA Matrix.....: AIR

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 124 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 125 (BZ)	**380000000 C**	**100000000**	**pg**	**EPA-14 1668**
PCB 126 (BZ)	ND	10000000	pg	EPA-14 1668
PCB 127 (BZ)	**150000000 C**	**100000000**	**pg**	**EPA-14 1668**
PCB 128 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 129 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 130 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 131 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 132 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 133 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 134 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 135 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 136 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 137 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 138 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 139 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 140 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 141 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 142 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 143 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 144 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 145 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 146 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 147 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 148 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 149 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 150 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 151 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 152 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 153 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 154 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 155 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 156 (BZ)	ND	10000000	pg	EPA-14 1668
PCB 157 (BZ)	ND	10000000	pg	EPA-14 1668
PCB 158 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 159 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 160 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 161 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 162 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 163 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 164 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 165 (BZ)	ND	100000000	pg	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: HFM900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-008 Work Order #...: GK2T51AA Matrix.....: AIR

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 166 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 167 (BZ)	ND	10000000	pg	EPA-14 1668
PCB 168 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 169 (BZ)	ND	10000000	pg	EPA-14 1668
PCB 170 (BZ)	ND	10000000	pg	EPA-14 1668
PCB 171 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 172 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 173 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 174 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 175 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 176 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 177 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 178 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 179 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 180 (BZ)	**12000000**	**10000000**	**pg**	**EPA-14 1668**
PCB 181 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 182 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 183 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 184 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 185 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 186 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 187 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 188 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 189 (BZ)	ND	10000000	pg	EPA-14 1668
PCB 190 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 191 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 192 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 193 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 194 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 195 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 196 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 197 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 198 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 199 (BZ)/200 (IUPAC)	ND	100000000	pg	EPA-14 1668
PCB 200 (BZ)/201 (IUPAC)	ND	100000000	pg	EPA-14 1668
PCB 201 (BZ)/199 (IUPAC)	ND	100000000	pg	EPA-14 1668
PCB 202 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 203 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 204 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 205 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 206 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 207 (BZ)	ND	100000000	pg	EPA-14 1668

(Continued on next page)

STL BUFFALO

Client Sample ID: HFM900

Trace Level Organic Compounds

Lot-Sample #...: G4G130294-008 Work Order #...: GK2T51AA Matrix.....: AIR

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
PCB 208 (BZ)	ND	100000000	pg	EPA-14 1668
PCB 209 (BZ)	ND	100000000	pg	EPA-14 1668

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-3,4,4',5-TCB	100	(25 - 150)
13C-4-Chlorobiphenyl	96	(25 - 150)
13C-4,4'-DiCB	97	(25 - 150)
13C-2,4,4'-TriCB	93	(25 - 150)
13C-3,3',4,4'-TCB	107	(25 - 150)
13C-2,3',4,4',5-PeCB	110	(25 - 150)
13C-3,3',4,4',5-PeCB	107	(25 - 150)
13C-3,3',4,4',5,5'-HxCB	95	(25 - 150)
13C-2,2',3,4,4',5,5'-HpCB	114	(25 - 150)
13C-2,2',3,3',4,4',5,5'-OCB	115	(25 - 150)
13C-DCB	93	(25 - 150)

NOTE(S):

C Co-eluting isomer.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

HAZEN DMM — TEST PIT SOIL

Client Number Hazen Number			MSTP-1 2902-4-02	MSTP-2 2902-6-01	MSTP-3 2902-7-03	ESTP-3 2902-13-04	ESTP-4 2902-11-04	ESTP-5 2902-9-04
Arsenic		mg/kg Dry	7	8	19	10	10	10
Barium		mg/kg Dry	120	66	100	140	53	89
Beryllium		mg/kg Dry	U	U	0.094	U	0.071	0.170
Cadmium		mg/kg Dry	0.20	0.13	0.47	0.20	0.23	0.27
Chromium		mg/kg Dry	26	12	15	33	11	15
Lead		mg/kg Dry	120	51	83	340	30	130
Selenium		mg/kg Dry	U	U	U	U	U	U
Silver		mg/kg Dry	0.51	0.52	0.50	U	0.46	0.40
Mercury		mg/kg Dry	0.046	NA	0.056	NA	0.130	NA
Proximate	Moisture	wt. %, As Rec'd	9.02	14.36	14.26	10.66	6.60	12.25
	Ash	wt. %, As Rec'd	85.16	80.85	81.48	86.90	91.69	85.24
	Volatile	wt. %, As Rec'd	4.52	5.32	5.34	3.47	1.82	2.05
	Fixed C	wt. %, As Rec'd	1.30	<0.01	<0.01	<0.01	<0.01	0.46
Proximate	Moisture	wt. %, Dry	0.00	0.00	0.00	0.00	0.00	0.00
	Ash	wt. %, Dry	93.60	94.41	95.03	97.27	98.17	97.14
	Volatile	wt. %, Dry	4.97	6.21	6.23	3.89	1.94	2.34
	Fixed C	wt. %, Dry	1.43	<0.01	<0.01	<0.01	<0.01	0.52
Calorific Value		BTU/lb, As Rec'd	524	480	343	207	124	148
Calorific Value		BTU/lb, Dry	576	560	400	232	133	169
Chlorine		wt. %, As Rec'd	0.02	0.14	0.49	0.03	0.02	0.03
Chlorine		wt. %, Dry	0.02	0.16	0.57	0.03	0.02	0.03

U: Undetected in Sample
NA: Not Available

Notes

1) Soil samples submitted for analyses were dried at 160°F and pulverized.
2) As received moisture, ash, fixed C, calorific value, and chlorine are calculated values.

HAZEN DATA - Test Pit Soil

Client Number Hazen Number		MSTP-1 2902-4-01	MSTP-2 2902-5-03	MSTP-3 2902-7-04	ESTP-3 2902-13-03	ESTP-4 2902-11-03	ESTP-5 2902-9-03
Mercury	mg/kg Wet	0.036	0.046	0.035	4.4	0.13	0.23
Moisture	wt. %	8.5	13.7	13.2	10.3	6.4	11.9
Mercury	mg/kg Dry	0.039	0.053	0.040	4.9	0.14	0.26

Notes:

1) Soil samples submitted for analyses were in the as-received condition.
2) Moisture content was determined by drying at 160°F in air.
3) Dry basis mercury concentrations are calculated vales.

HAZEN BATH — Test Soil Samples

Client Number Hazen Number			PSM	PSE	PSE-D	TSE-700	TSE-900	TSM-900
Proximate	Moisture	wt. %, As Rec'd	14.00	9.38	9.00	<0.01	0.05	0.24
	Ash	wt. %, As Rec'd	80.90	88.32	88.59	97.42	97.95	97.88
	Volatile	wt. %, As Rec'd	3.71	1.94	2.14	2.91	1.92	2.05
	Fixed C	wt. %, As Rec'd	1.39	0.36	0.27	<0.01	0.08	<0.01
Proximate	Moisture	wt. %, Dry	0.00	0.00	0.00	0.00	0.00	0.00
	Ash	wt. %, Dry	94.07	97.46	97.35	97.42	98.00	98.12
	Volatile	wt. %, Dry	4.31	2.14	2.35	2.91	1.92	2.05
	Fixed C	wt. %, Dry	1.62	0.40	0.30	<0.01	0.08	<0.01
Ultimate	Moisture	wt. %, As Rec'd	14.00	9.38	9.00	<0.01	0.05	0.24
	Carbon	wt. %, As Rec'd	3.40	1.50	1.05	1.65	1.36	1.28
	Hydrogen	wt. %, As Rec'd	0.19	0.11	0.02	0.12	0.04	0.01
	Nitrogen	wt. %, As Rec'd	0.24	0.19	0.27	0.25	0.23	0.22
	Sulfur	wt. %, As Rec'd	0.05	0.02	0.02	0.02	0.02	0.02
	Ash	wt. %, As Rec'd	80.90	88.32	88.59	97.42	97.95	97.88
	Oxygen	wt. %, As Rec'd	1.22	0.48	1.05	0.54	0.35	0.35
	Chlorine	wt. %, As Rec'd	0.43	0.04	0.03	0.03	0.02	0.05
Ultimate	Moisture	wt. %, Dry	0.00	0.00	0.00	0.00	0.00	0.00
	Carbon	wt. %, Dry	3.96	1.66	1.15	1.65	1.36	1.28
	Hydrogen	wt. %, Dry	0.22	0.13	0.02	0.12	0.04	0.01
	Nitrogen	wt. %, Dry	0.28	0.21	0.30	0.25	0.23	0.22
	Sulfur	wt. %, Dry	0.06	0.02	0.02	0.02	0.02	0.02
	Ash	wt. %, Dry	94.07	97.46	97.35	97.42	98.00	98.12
	Oxygen	wt. %, Dry	1.41	0.52	1.16	0.54	0.35	0.35
	Chlorine	wt. %, Dry	0.50	0.04	0.03	0.03	0.02	0.05
Calorific Value		BTU/lb, As Rec'd	386	136	220			
Calorific Value		BTU/lb, Dry	449	150	242			
Chloride		wt. %, Dry	0.021	<0.005	<0.005	<0.005	0.008	0.022
Moisture		wt. %	13.0	9.1	9.0			

Notes:

1) Moisture content (at bottom of list) was determined by drying at 160°F in air.

HAZEN DATA – Impinger Water Samples

Paul Sadler

From: Guy L Fredrickson [fredricksongl@hazenusa.com]
ent: Wednesday, August 25, 2004 5:52 PM
.o: Paul A. Sadler
Subject: Hazen Research, Inc.

Paul,

This should be the data that you are looking for.

Sample WE-700

Acidity: <5 mg/L
Chloride: <0.1 mg/L
Sulfate: <1 mg/L
Total Sulfur: <1 mg/L

Sample WE-900

Acidity: <5 mg/L
Chloride: <0.1 mg/L
Sulfate: <1 mg/L
Total Sulfur: 4 mg/L

Sample WM-900

Acidity: <5 mg/L
Chloride: 5.6 mg/L
ulfate: <1 mg/L
otal Sulfur: 7 mg/L

Lower Detection Limits:

Acidity: 5 mg/L
Chloride: 0.1 mg/L
Sulfate: 1 mg/L
Total Sulfur: 1 mg/L

Please give me a call if you have any questions.

Regards,

Guy

****

Guy L. Fredrickson, Ph.D.
Senior Project Engineer

Hazen Research, Inc.
4601 Indiana Street
Golden, Colorado 80403

303-279-4501 (phone)
3-278-1528 (fax)
ww.hazenusa.com

****

Attachment C

Particle Size Distribution Results

ADVANCED TERRA TESTING, Inc.
ATT
833 Parfet Street • Lakewood, Colorado 80215 • (303) 232-8308 • Fax: (303) 232-1579

HYDROMETER ANALYSIS

With Mechanical Grain Size Analysis

ASTM D 422

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT	Hazen Research	JOB NO.	2148-17
BORING NO.	2902-5-1	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	MSTP-2	WASH SIEVE	Yes
SOIL DESCR.	Project #10133	DRY SIEVE	No
LOCATION			

MOISTURE DATA

HYGROSCOPIC	Yes
NATURAL	No
Wt. Wet Soil & Pan (g)	52.85
Wt. Dry Soil & Pan (g)	49.13
Wt. Lost Moisture (g)	3.72
Wt. of Pan Only (g)	3.67
Wt. of Dry Soil (g)	45.46
Moisture Content %	8.2
Wt. Hydrom. Sample Wet (g)	49.94
Wt. Hydrom. Sample Dry (g)	46.16

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1111.26
Weight of + #10 Before Washing (g)	250.93
Weight of + #10 After Washing (g)	234.03
Weight of - #10 Wet (g)	860.33
Weight of - #10 Dry (g)	810.88
Wt. Total Sample Dry (g)	1044.91
Calc. Wt. "W" (g)	59.49
Calc. Mass + #10	13.32

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
3"	0.00	0.00	0.00	0.00	0.0	100.0
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	32.27	32.27	32.27	3.1	96.9
#4	0.00	71.88	71.88	104.15	10.0	90.0
#10	0.00	129.88	129.88	234.03	22.4	77.6
#20	3.63	13.93	10.30	10.30	39.7	60.3
#40	3.63	15.69	12.06	22.36	60.0	40.0
#60	3.68	10.33	6.65	29.01	71.2	28.8
#100	3.77	9.07	5.30	34.31	80.1	19.9
#200	3.61	6.62	3.01	37.32	85.1	14.9

Data entered by: SR Date: 07/09/2004
Data checked by: CAL Date: 7/12/04
FileName: HZH0STP2

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA
ASTM D 422

CLIENT	Hazen Research	JOB NO.	2148-17
BORING NO.	2902-5-1	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	MSTP-2	WASH SIEVE	Yes
SOIL DESCR.	Project #10133	DRY SIEVE	No
LOCATION			

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.7
Sp. Gr. of Soil	2.65	Temp. Coef. K	0.01306
Value of "alpha"	1.00	Wt. Dry Sample "W"	59.488
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-0.5		

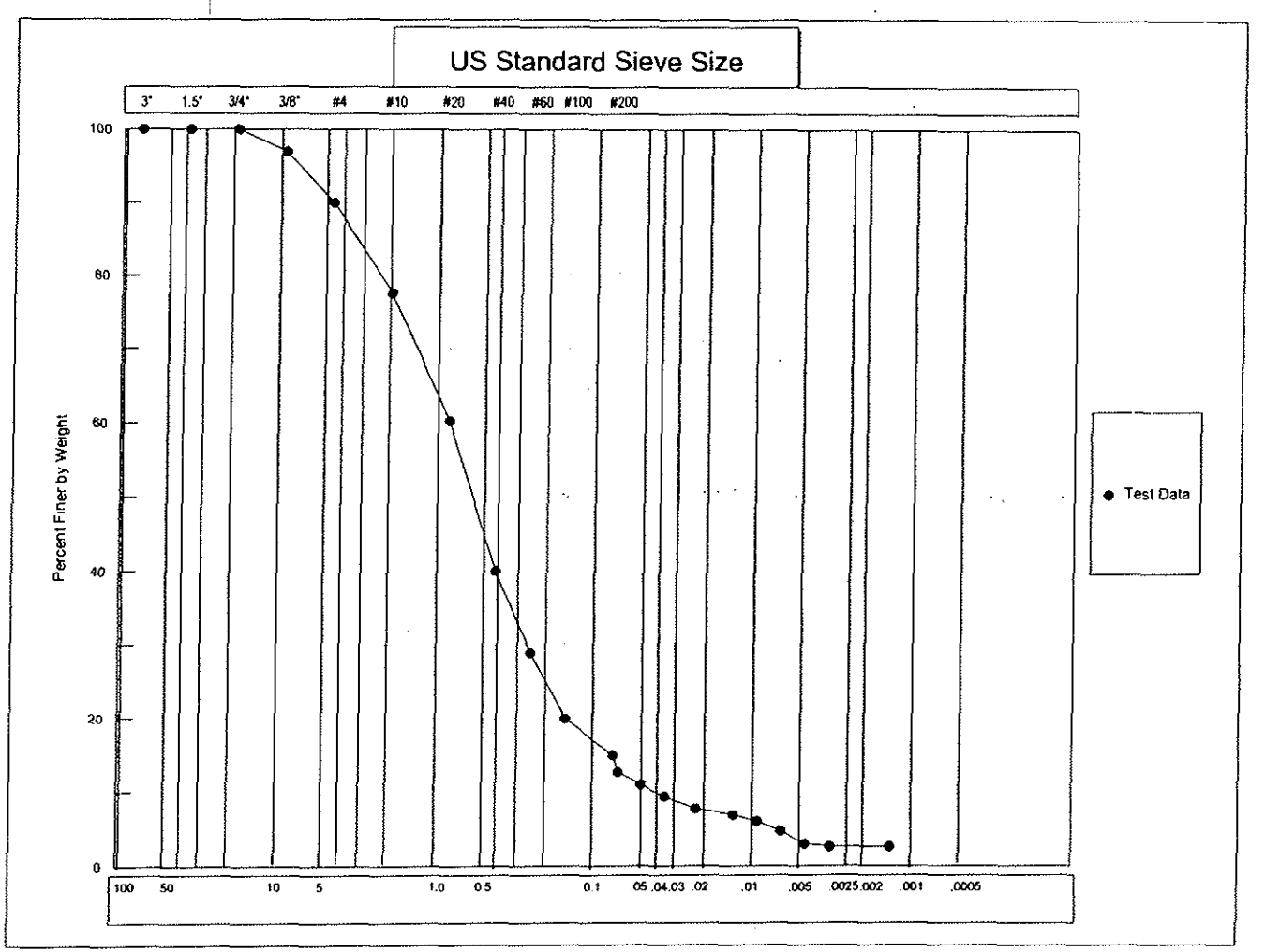
(Fine By Wt)

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm) (Sieve #)
0.0	--	--	--	--	--	--
0.5	13.00	7.50	12.6	12.6	14.16	0.0695
1.0	12.00	6.50	10.9	10.9	14.32	0.0494
2.0	11.00	5.50	9.2	9.2	14.49	0.0351
5.0	10.00	4.50	7.6	7.6	14.65	0.0224
15.0	9.50	4.00	6.7	6.7	14.73	0.0129
30.0	9.00	3.50	5.9	5.9	14.81	0.0092
60.0	8.25	2.75	4.6	4.6	14.94	0.0065
120.0	7.25	1.75	2.9	2.9	15.10	0.0046
250.0	7.00	1.50	2.5	2.5	15.14	0.0032
1409.0	7.00	1.50	2.5	2.5	15.14	0.0014

Grain Diameter = K*(SQRT(L/T))

Data entered by: SR Date: 07/09/2004
Data checked by: Cal Date: 7/12/04
FileName: HZH0STP2

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	CRS	MEDIUM	FINE	

USCS

COBBLES TO BOULDERS	PEBBLE GRAVEL				SAND			SILT	CLAY
	COARSE	MED	FINE	GRAN	COARSE	MED	FINE		

WENTWORTH

Client: Hazen Research Boring No.: 2902-5-1 Sample No.: MSTP-2
Job Number: 2148-17 Depth:
Classification: **Classification Not Performed**

Advanced Terra Testing, Inc.

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT Hazen Research

JOB NO. 2148-17

BORING NO.	2902-7-1	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	MSTP-3	WASH SIEVE	Yes
SOIL DESCR.	Project #10133	DRY SIEVE	No
LOCATION			

MOISTURE DATA

HYGROSCOPIC	Yes
NATURAL	No

Wt. Wet Soil & Pan (g)	38.35
Wt. Dry Soil & Pan (g)	36.95
Wt. Lost Moisture (g)	1.40
Wt. of Pan Only (g)	3.66
Wt. of Dry Soil (g)	33.29
Moisture Content %	4.2

Wt. Hydrom. Sample Wet (g)	60.20
Wt. Hydrom. Sample Dry (g)	57.77

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1041.39
Weight of + #10 Before Washing (g)	214.77
Weight of + #10 After Washing (g)	197.99
Weight of - #10 Wet (g)	826.62
Weight of - #10 Dry (g)	809.36
Wt. Total Sample Dry (g)	1007.35

Calc. Wt. "W" (g)	71.90
Calc. Mass + #10	14.13

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
3"	0.00	0.00	0.00	0.00	0.0	100.0
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	50.40	50.40	50.40	5.0	95.0
3/8"	0.00	37.92	37.92	88.32	8.8	91.2
#4	0.00	36.95	36.95	125.27	12.4	87.6
#10	0.00	72.72	72.72	197.99	19.7	80.3
#20	3.64	10.32	6.68	6.68	28.9	71.1
#40	3.69	12.40	8.71	15.39	41.1	58.9
#60	3.64	10.61	6.97	22.36	50.8	49.2
#100	3.73	9.80	6.07	28.43	59.2	40.8
#200	3.61	10.96	7.35	35.78	69.4	30.6

Data entered by: SR Date: 07/09/2004
Data checked by: cue Date: 7/12/04
FileName: HZH0TP3

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA
ASTM D 422

CLIENT	Hazen Research	JOB NO.	2148-17
BORING NO.	2902-7-1	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	MSTP-3	WASH SIEVE	Yes
SOIL DESCR.	Project #10133	DRY SIEVE	No
LOCATION			

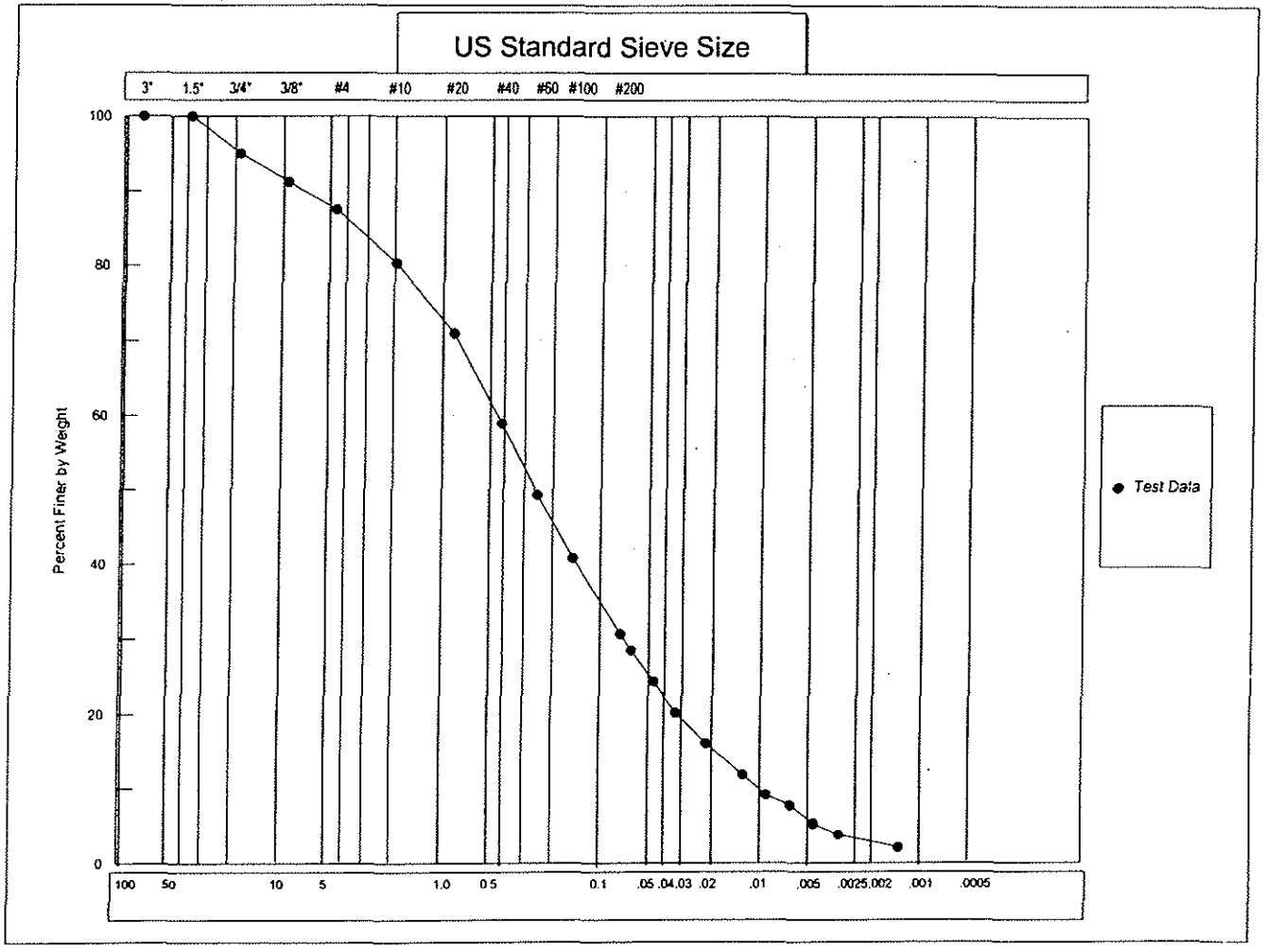
Hydrometer #	ASTM 152 H	Temp., Deg. C	23.6
Sp. Gr. of Soil	2.65	Temp. Coef. K	0.01307
Value of "alpha"	1.00	Wt. Dry Sample "W"	71.904
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-0.5		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	26.00	20.50	28.5	28.5	12.03	0.0641
1.0	23.00	17.50	24.3	24.3	12.52	0.0463
2.0	20.00	14.50	20.2	20.2	13.01	0.0333
5.0	17.00	11.50	16.0	16.0	13.50	0.0215
15.0	14.00	8.50	11.8	11.8	13.99	0.0126
30.0	12.00	6.50	9.0	9.0	14.32	0.0090
60.0	11.00	5.50	7.6	7.6	14.49	0.0064
120.0	9.25	3.75	5.2	5.2	14.77	0.0046
250.0	8.25	2.75	3.8	3.8	14.94	0.0032
1425.0	7.00	1.50	2.1	2.1	15.14	0.0013

Grain Diameter = K*(SQRT(L/T))

Data entered by: SR Date: 07/09/2004
Data checked by: Cue Date: 7/12/04
FileName: HZH0TP3

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	CRS	MEDIUM	FINE	

USCS

COBBLES	PEBBLE GRAVEL				SAND			SILT	CLAY
TO BOULDERS	*COARSE*	*MED*	*FINE*	*GRAN*	*COARSE*	*MED*	*FINE*		

WENTWORTH

Client: Hazen Research Boring No.: 2902-7-1 Sample No.: MSTP-3
Job Number: 2148-17 Depth:
Classification: **Classification Not Performed**

Advanced Terra Testing, Inc.

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT Hazen Research

JOB NO. 2148-17

BORING NO.	2902-13-01	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	ESTP-3	WASH SIEVE	Yes
SOIL DESCR.		DRY SIEVE	No
LOCATION			

MOISTURE DATA

HYGROSCOPIC	Yes
NATURAL	No

Wt. Wet Soil & Pan (g)	37.39
Wt. Dry Soil & Pan (g)	36.80
Wt. Lost Moisture (g)	0.59
Wt. of Pan Only (g)	3.69
Wt. of Dry Soil (g)	33.11
Moisture Content %	1.8
Wt. Hydrom. Sample Wet (g)	57.16
Wt. Hydrom. Sample Dry (g)	56.16

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1198.59
Weight of + #10 Before Washing (g)	395.31
Weight of + #10 After Washing (g)	356.13
Weight of - #10 Wet (g)	803.28
Weight of - #10 Dry (g)	827.71
Wt. Total Sample Dry (g)	1183.84
Calc. Wt. "W" (g)	80.32
Calc. Mass + #10	24.16

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
3"	0.00	0.00	0.00	0.00	0.0	100.0
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	74.61	74.61	74.61	6.3	93.7
3/8"	0.00	59.92	59.92	134.53	11.4	88.6
#4	0.00	80.76	80.76	215.29	18.2	81.8
#10	0.00	140.84	140.84	356.13	30.1	69.9
#20	3.59	16.87	13.28	13.28	46.6	53.4
#40	3.64	16.64	13.00	26.28	62.8	37.2
#60	3.60	12.45	8.85	35.13	73.8	26.2
#100	3.61	10.07	6.46	41.59	81.9	18.1
#200	3.54	7.95	4.41	46.00	87.4	12.6

Data entered by: SR Date: 07/07/2004
Data checked by: Cal Date: 7/07/04
FileName: HZH0STP3

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA
ASTM D 422

CLIENT	Hazen Research	JOB NO.	2148-17
BORING NO.	2902-13-01	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	ESTP-3	WASH SIEVE	Yes
SOIL DESCR.		DRY SIEVE	No
LOCATION			

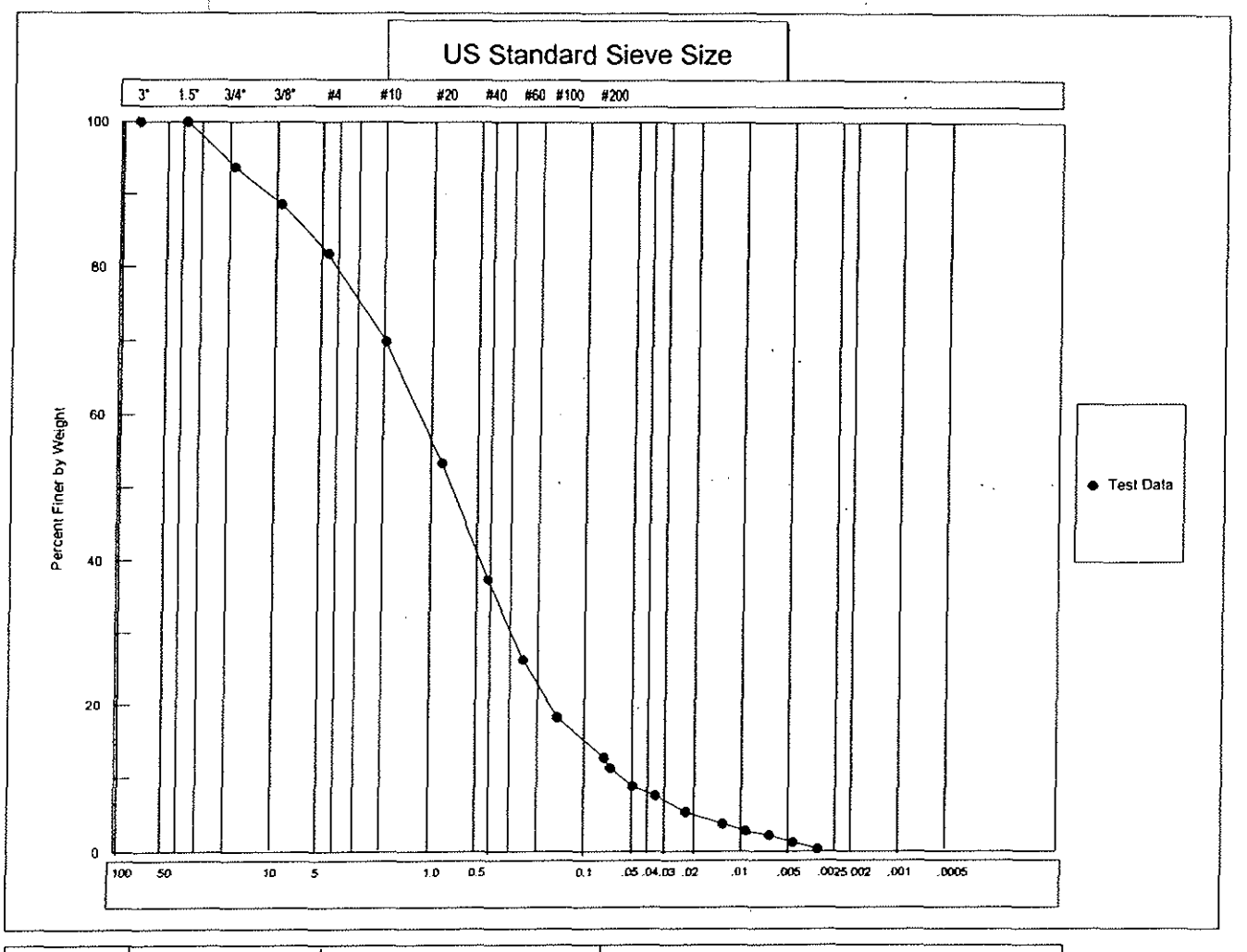
Hydrometer #	ASTM 152 H	Temp., Deg. C	23.9
Sp. Gr. of Soil	2.65	Temp. Coef. K	0.01303
Value of "alpha"	1.00	Wt. Dry Sample "W"	80.322
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	15.00	9.00	11.2	11.2	13.83	0.0685
1.0	13.00	7.00	8.7	8.7	14.16	0.0490
2.0	12.00	6.00	7.5	7.5	14.32	0.0349
5.0	10.25	4.25	5.3	5.3	14.61	0.0223
15.0	9.00	3.00	3.7	3.7	14.81	0.0129
30.0	8.25	2.25	2.8	2.8	14.94	0.0092
60.0	7.75	1.75	2.2	2.2	15.02	0.0065
120.0	7.00	1.00	1.2	1.2	15.14	0.0046
250.0	6.25	0.25	0.3	0.3	15.27	0.0032

Grain Diameter = K*(SQRT(L/T))

Data entered by: SR Date: 07/07/2004
Data checked by: ae Date: 7/07/04
FileName: HZH0STP3

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	CRS	MEDIUM	FINE	

USCS

COBBLES TO BOULDERS	PEBBLE GRAVEL				SAND			SILT	CLAY
	COARSE	MED	FINE	GRAN	COARSE	MEO	FINE		

WENTWORTH

Client: Hazen Research Boring No.: 2902-13-01 Sample No.: ESTP-3
Job Number: 2148-17 Depth:
Classification: **Classification Not Performed**

Advanced Terra Testing, Inc.

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT	Hazen Research	JOB NO.	2148-17
BORING NO.	2902-3-01	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	MSTP-1	WASH SIEVE	Yes
SOIL DESCR.	Project #10133	DRY SIEVE	No
LOCATION			

MOISTURE DATA

HYGROSCOPIC	Yes
NATURAL	No

Wt. Wet Soil & Pan (g)	55.03
Wt. Dry Soil & Pan (g)	53.16
Wt. Lost Moisture (g)	1.87
Wt. of Pan Only (g)	3.67
Wt. of Dry Soil (g)	49.49
Moisture Content %	3.8
Wt. Hydrom. Sample Wet (g)	51.94
Wt. Hydrom. Sample Dry (g)	50.05

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1184.73
Weight of + #10 Before Washing (g)	361.05
Weight of + #10 After Washing (g)	320.65
Weight of - #10 Wet (g)	823.68
Weight of - #10 Dry (g)	832.62
Wt. Total Sample Dry (g)	1153.27
Calc. Wt. "W" (g)	69.32
Calc. Mass + #10	19.27

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
3"	0.00	0.00	0.00	0.00	0.0	100.0
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	107.96	107.96	107.96	9.4	90.6
3/8"	0.00	51.83	51.83	159.79	13.9	86.1
#4	0.00	54.72	54.72	214.51	18.6	81.4
#10	0.00	106.14	106.14	320.65	27.8	72.2
#20	3.62	16.19	12.57	12.57	45.9	54.1
#40	3.70	18.63	14.93	27.50	67.5	32.5
#60	3.73	11.42	7.69	35.19	78.6	21.4
#100	3.67	8.17	4.50	39.69	85.1	14.9
#200	3.66	6.25	2.59	42.28	88.8	11.2

Data entered by: SR Date: 07/07/2004
Data checked by: cue Date: 7/07/04
FileName: HZH0STP1

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA
ASTM D 422

CLIENT	Hazen Research	JOB NO.	2148-17
BORING NO.	2902-3-01	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	MSTP-1	WASH SIEVE	Yes
SOIL DESCR.	Project #10133	DRY SIEVE	No
LOCATION			

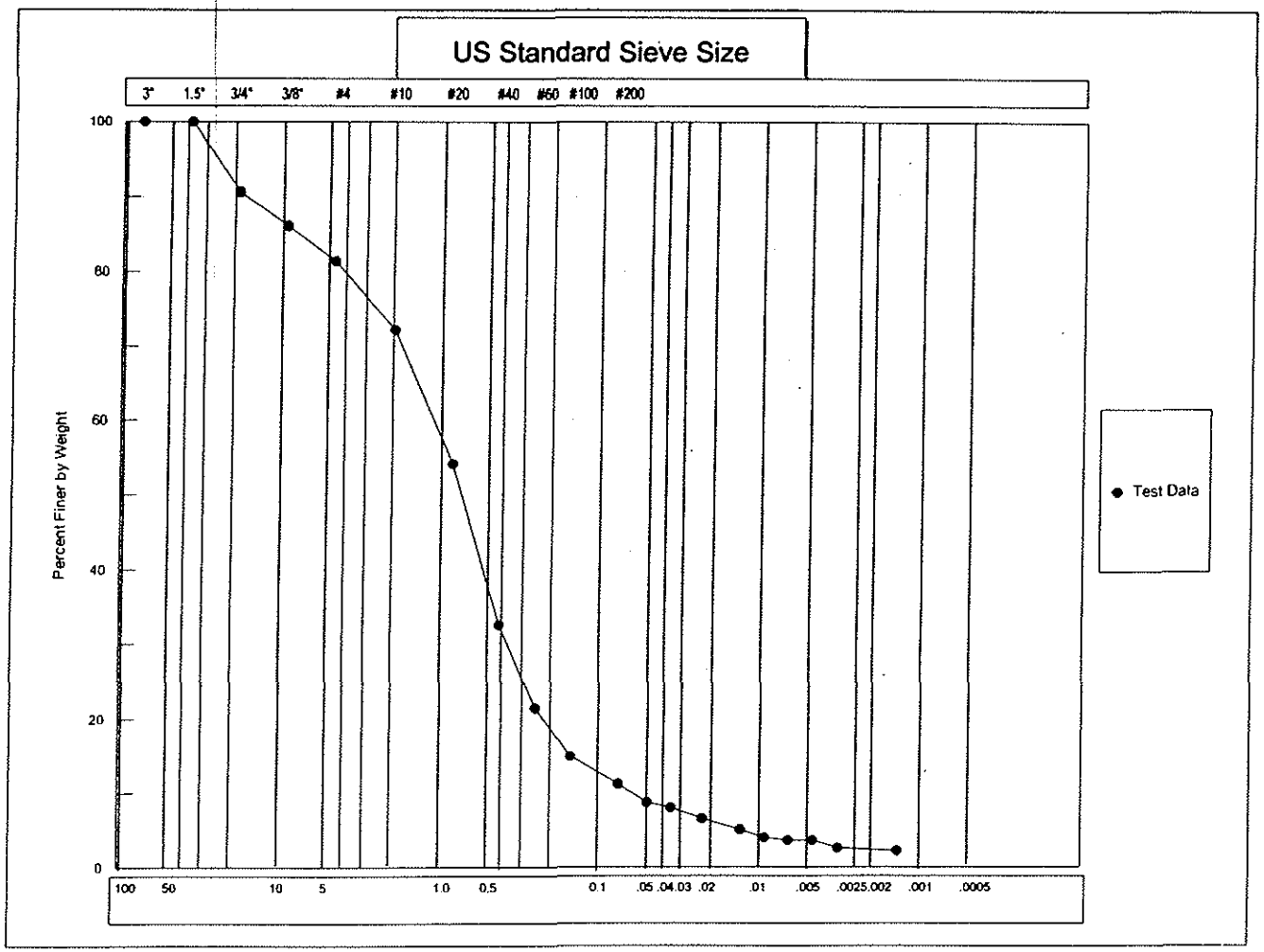
Hydrometer #	ASTM 152 H	Temp., Deg. C	23.8
Sp. Gr. of Soil	2.65	Temp. Coef. K	0.01304
Value of "alpha"	1.00	Wt. Dry Sample "W"	69.319
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-0.5		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	--	--	--	--	--	--
1.0	11.50	6.00	8.7	8.7	14.40	0.0495
2.0	11.00	5.50	7.9	7.9	14.49	0.0351
5.0	10.00	4.50	6.5	6.5	14.65	0.0223
15.0	9.00	3.50	5.0	5.0	14.81	0.0130
30.0	8.25	2.75	4.0	4.0	14.94	0.0092
60.0	8.00	2.50	3.6	3.6	14.98	0.0065
120.0	8.00	2.50	3.6	3.6	14.98	0.0046
250.0	7.25	1.75	2.5	2.5	15.10	0.0032
1377.0	7.00	1.50	2.2	2.2	15.14	0.0014

Grain Diameter = K*(SQRT(L/T))

Data entered by: SR Date: 07/07/2004
Data checked by: Cu Date: 7/07/04
FileName: HZH0STP1

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	CRS	MEDIUM	FINE	

USCS

COBBLES TO BOULDERS	PEBBLE GRAVEL				SAND			SILT	CLAY
	COARSE	MED	FINE	GRAN	COARSE	MED	FINE		

WENTWORTH

Client: Hazen Research Boring No.: 2902-3-01 Sample No.: MSTP-1
Job Number: 2148-17 Depth:
Classification: **Classification Not Performed**

Advanced Terra Testing, Inc.

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT Hazen Research

JOB NO. 2148-17

BORING NO.	2902-9-01	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	ESTP-5	WASH SIEVE	Yes
SOIL DESCR.	Project #10133	DRY SIEVE	No
LOCATION			

MOISTURE DATA

HYGROSCOPIC	Yes
NATURAL	No

Wt. Wet Soil & Pan (g)	49.72
Wt. Dry Soil & Pan (g)	48.86
Wt. Lost Moisture (g)	0.86
Wt. of Pan Only (g)	3.67
Wt. of Dry Soil (g)	45.19
Moisture Content %	1.9
Wt. Hydrom. Sample Wet (g)	54.54
Wt. Hydrom. Sample Dry (g)	53.53

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1194.29
Weight of + #10 Before Washing (g)	352.00
Weight of + #10 After Washing (g)	335.49
Weight of - #10 Wet (g)	842.29
Weight of - #10 Dry (g)	842.76
Wt. Total Sample Dry (g)	1178.25
Calc. Wt. "W" (g)	74.83
Calc. Mass + #10	21.31

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
3"	0.00	0.00	0.00	0.00	0.0	100.0
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	56.47	56.47	56.47	4.8	95.2
3/8"	0.00	118.06	118.06	174.53	14.8	85.2
#4	0.00	69.43	69.43	243.96	20.7	79.3
#10	0.00	91.53	91.53	335.49	28.5	71.5
#20	3.69	12.68	8.99	8.99	40.5	59.5
#40	3.63	12.23	8.60	17.59	52.0	48.0
#60	3.68	10.20	6.52	24.11	60.7	39.3
#100	3.57	11.14	7.57	31.68	70.8	29.2
#200	3.65	12.29	8.64	40.32	82.4	17.6

Data entered by: SR Date: 07/07/2004
Data checked by: Cal Date: 7/7/04
FileName: HZH0STP5

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA
ASTM D 422

CLIENT	Hazen Research	JOB NO.	2148-17
BORING NO.	2902-9-01	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	ESTP-5	WASH SIEVE	Yes
SOIL DESCR.	Project #10133	DRY SIEVE	No
LOCATION			

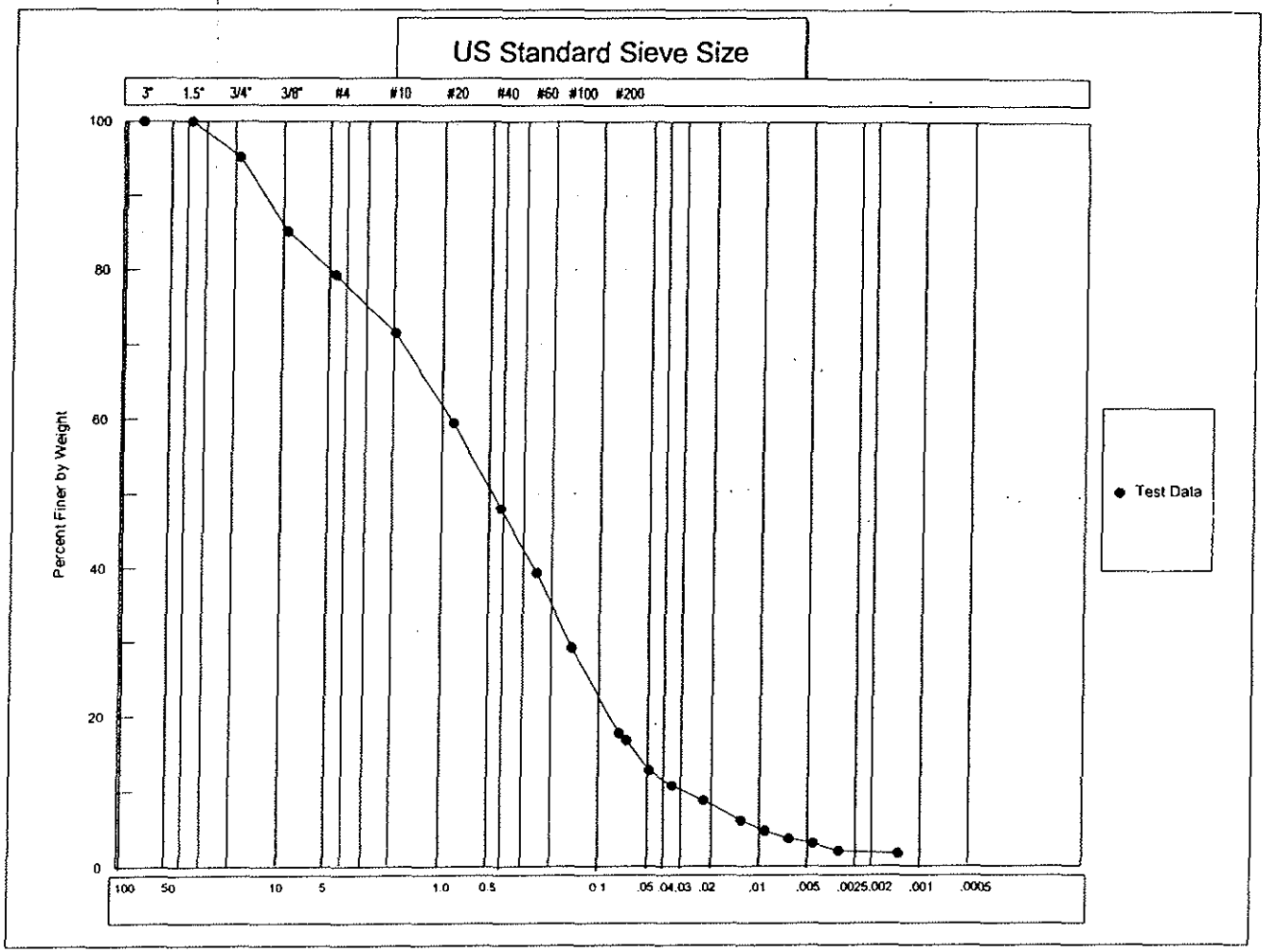
Hydrometer #	ASTM 152 H	Temp., Deg. C	23.8
Sp. Gr. of Soil	2.65	Temp. Coef. K	0.01304
Value of "alpha"	1.00	Wt. Dry Sample "W"	74.833
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-0.5		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	18.00	12.50	16.7	16.7	13.34	0.0674
1.0	15.00	9.50	12.7	12.7	13.83	0.0485
2.0	13.50	8.00	10.7	10.7	14.08	0.0346
5.0	12.00	6.50	8.7	8.7	14.32	0.0221
15.0	10.00	4.50	6.0	6.0	14.65	0.0129
30.0	9.00	3.50	4.7	4.7	14.81	0.0092
60.0	8.25	2.75	3.7	3.7	14.94	0.0065
120.0	7.75	2.25	3.0	3.0	15.02	0.0046
250.0	7.00	1.50	2.0	2.0	15.14	0.0032
1385.0	6.75	1.25	1.7	1.7	15.18	0.0014

Grain Diameter = K*(SQRT(L/T))

Data entered by: SR Date: 07/07/2004
Data checked by:_____ Date:_____
FileName: HZH0STP5

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	CRS	MEDIUM	FINE	

USCS

COBBLES TO BOULDERS	PEBBLE GRAVEL				SAND			SILT	CLAY
	COARSE	MED	FINE	GRAN	COARSE	MED	FINE		

WENTWORTH

Client: Hazen Research Boring No.: 2902-9-01 Sample No.: ESTP-5
Job Number: 2148-17 Depth:
Classification: **Classification Not Performed**

Advanced Terra Testing, Inc.

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT	Hazen Research	JOB NO.	2148-17
BORING NO.	2902-11-01	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	ESTP-4	WASH SIEVE	Yes
SOIL DESCR.	Project #10133	DRY SIEVE	No
LOCATION			

MOISTURE DATA

HYGROSCOPIC	Yes
NATURAL	No

Wt. Wet Soil & Pan (g)	38.66
Wt. Dry Soil & Pan (g)	37.94
Wt. Lost Moisture (g)	0.72
Wt. of Pan Only (g)	3.67
Wt. of Dry Soil (g)	34.27
Moisture Content %	2.1
Wt. Hydrom. Sample Wet (g)	60.67
Wt. Hydrom. Sample Dry (g)	59.42

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1371.56
Weight of + #10 Before Washing (g)	466.36
Weight of + #10 After Washing (g)	402.91
Weight of - #10 Wet (g)	905.20
Weight of - #10 Dry (g)	948.72
Wt. Total Sample Dry (g)	1351.63
Calc. Wt. "W" (g)	84.66
Calc. Mass + #10	25.24

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
3"	0.00	0.00	0.00	0.00	0.0	100.0
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	106.15	106.15	106.15	7.9	92.1
3/8"	0.00	106.06	106.06	212.21	15.7	84.3
#4	0.00	65.28	65.28	277.49	20.5	79.5
#10	0.00	125.42	125.42	402.91	29.8	70.2
#20	3.69	18.12	14.43	14.43	46.9	53.1
#40	3.78	22.40	18.62	33.05	68.8	31.2
#60	3.72	14.78	11.06	44.11	81.9	18.1
#100	3.68	10.22	6.54	50.65	89.6	10.4
#200	3.71	6.88	3.17	53.82	93.4	6.6

Data entered by: SR Date: 07/07/2004
Data checked by: CAL Date: 7/7/04
FileName: HZH0STP4

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA
ASTM D 422

CLIENT	Hazen Research	JOB NO.	2148-17
BORING NO.	2902-11-01	SAMPLED	
DEPTH		DATE TESTED	07-02-04 RS
SAMPLE NO.	ESTP-4	WASH SIEVE	Yes
SOIL DESCR.	Project #10133	DRY SIEVE	No
LOCATION			

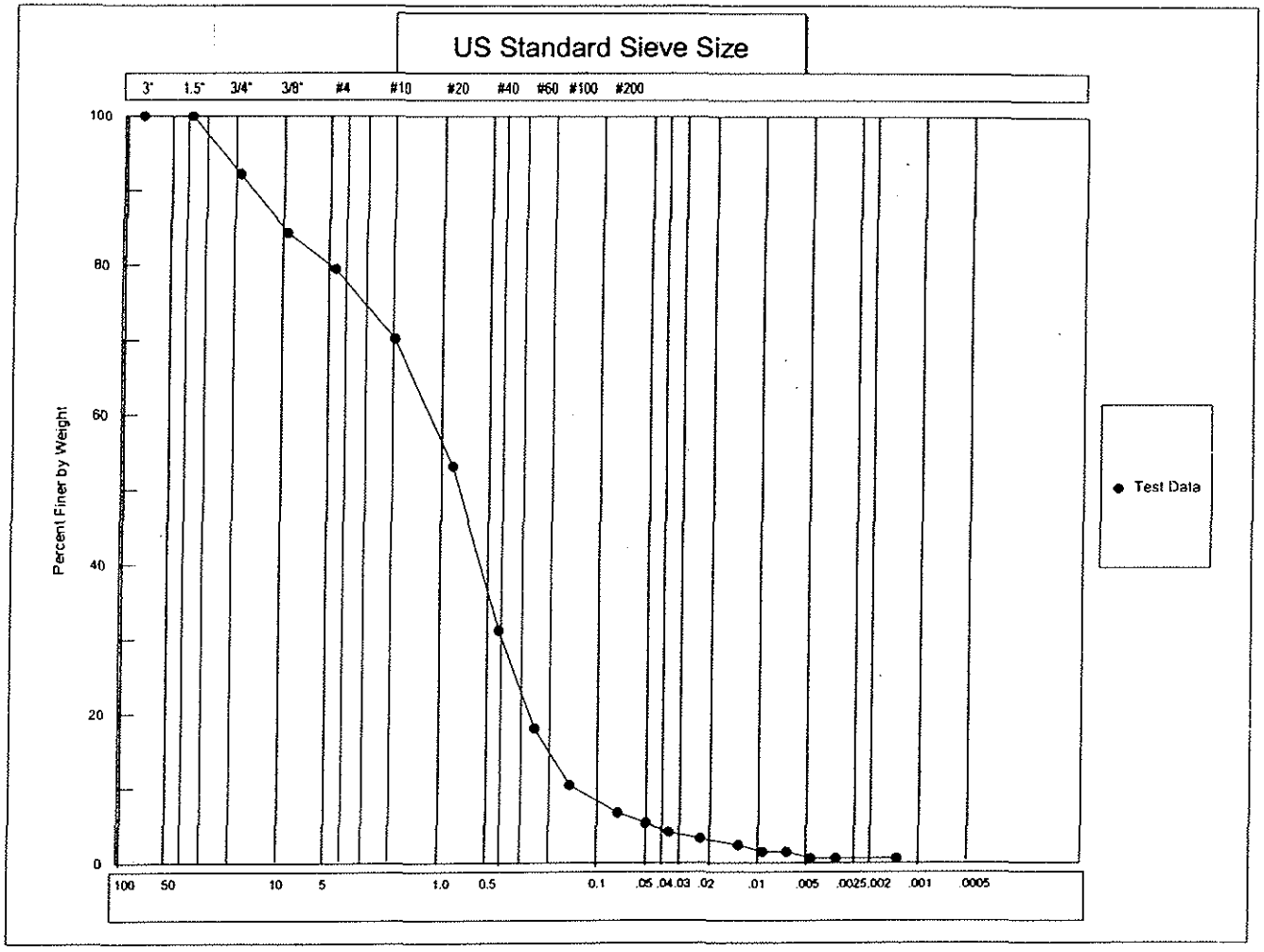
Hydrometer #	ASTM 152 H	Temp., Deg. C	23.8
Sp. Gr. of Soil	2.65	Temp. Coef. K	0.01304
Value of "alpha"	1.00	Wt. Dry Sample "W"	84.661
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-0.5		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	--	--	--	--	--	--
1.0	10.00	4.50	5.3	5.3	14.65	0.0499
2.0	9.00	3.50	4.1	4.1	14.81	0.0355
5.0	8.25	2.75	3.2	3.2	14.94	0.0225
15.0	7.50	2.00	2.4	2.4	15.06	0.0131
30.0	6.75	1.25	1.5	1.5	15.18	0.0093
60.0	6.75	1.25	1.5	1.5	15.18	0.0066
120.0	6.00	0.50	0.6	0.6	15.31	0.0047
250.0	6.00	0.50	0.6	0.6	15.31	0.0032
1419.0	6.00	0.50	0.6	0.6	15.31	0.0014

Grain Diameter = K*(SQRT(L/T))

Data entered by: SR Date: 07/07/2004
Data checked by: [illegible] Date: 7/7/04
FileName: HZH0STP4

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	CRS	MEDIUM	FINE	

USCS

COBBLES TO BOULDERS	PEBBLE GRAVEL				SAND			SILT	CLAY
	COARSE	MED	FINE	GRAN	COARSE	MED	FINE		

WENTWORTH

Client: Hazen Research Boring No.: 2902-11-01 Sample No.: ESTP-4
Job Number: 2148-17 Depth:
Classification: **Classification Not Performed**

Advanced Terra Testing, Inc.

Attachment D

Test Run Data Forms

Batch Kiln Data Sheet

Project No.	10133	Target Conditions:		Standard Conditions:	70°F and 1 atm
Date	7/2/2004	Temperature, °F/°C	700°F/371°C		
Test No.	1	Sample	Elm Street Prepared		

Time	Temperatures, °C			Purge Gas		Pressure	Exhaust Flows			Dry Test Meter		
	Shell	Bed	Filter, °F	N_2, slpm	O_2, slpm	" W.C.	THC, scfh	CEMs, scfh	Bag, L	Meter, ft^3	Temp, °F	" W.C.
9:01	27	19	398	3.8	0.2	0.1	3.0	1.5	0.0	199.26	72	1.0
9:06	184	37	406	3.8	0.2	0.2	3.0	1.5	0.0	200.72	72	1.0
9:11	336	80	416	3.8	0.2	0.2	3.0	1.5	0.0	201.69	73	1.1
9:16	413	161	427	3.8	0.2	0.2	3.0	1.5	0.0	202.63	74	1.0
9:21	418	280	438	3.8	0.2	0.2	3.0	1.5	0.0	203.51	76	0.8
9:26	419	350	445	3.8	0.2	0.2	3.0	1.5	0.0	204.39	77	0.8
9:29	419	371	440	3.8	0.2	0.2	3.0	1.5	0.0	204.89	78	0.8
9:45	90	94	400	3.8	0.2	0.2	3.0	1.5	0.0	207.83	79	0.7
Total, min				Total, sl	Total, sl		Total, sl	Total, sl		Total, sl	Avg., °F	Avg., WC"
44				167.2	8.8		62.3	31.1		201.7	75	0.9

KILN		*Mass In, g*	*Mass Out, g*
	Gross	2372.4	2313.3
	Kiln tare	1764.7	1764.7
	Net	607.7	548.6
	Loss, % =	9.7	

FILTER		Mass, g
	Gross	0.9918
	Tare	0.8211
	Net	0.1707

IMPINGERS		#1 D.I	#2 D.I.	#3 D.I.	#4 Empty	XAD #1	XAD #2
START	Gross, g	605.6	599.6	611.5	518.6	327.7	349.8
END	Gross, g	659.9	602.1	611.8	518.7	327.3	350.8
	Change, g	54.3	2.5	0.3	0.1	-0.4	1.0
VOLUMES	Impingers, mL	152.7	100.7	98.8	2.3		
	w/rinse, mL	235.2	138.9	142.0	30.3		

SOLUTION		
	Total, mL	550.0
	Total, g	545.2

Batch Kiln Data Sheet

Project No.	10133	Target Conditions:		Standard Conditions:	70°F and 1 atm
Date	7/2/2004	Temperature, °F/°C	900°F/482°C		
Test No.	2	Sample	Elm Street Prepared		

	Temperatures, °C			Purge Gas		Pressure	Exhaust Flows			Dry Test Meter		
Time	Shell	Bed	Filter, °F	N_2, slpm	O_2, slpm	" W.C.	THC, scfh	CEMs, scfh	Bag, L	Meter, ft^3	Temp, °F	" W.C.
12:45	30	25	455	3.8	0.2	0.2	3.0	1.5	0.0	207.83	80	0.9
12:50	240	60	453	3.8	0.2	0.4	3.0	1.5	0.0	208.68	82	1.0
12:55	346	92	450	3.8	0.2	0.4	3.0	1.5	0.0	209.56	81	1.0
13:00	442	189	450	3.8	0.2	0.2	3.0	1.5	0.0	210.43	83	0.8
13:35	522	370	453	3.8	0.2	0.3	3.0	1.5	0.0	211.33	84	0.9
13:10	532	464	453	3.8	0.2	0.4	3.0	1.5	0.0	212.23	85	0.9
13:12	531	482	450	3.8	0.2	0.3	3.0	1.5	0.0	212.53	86	0.9
13:32	74	94	400	3.8	0.2	0.2	3.0	1.5	0.0	216.21	85	0.8
Total, min				Total, sl	Total, sl		Total, sl	Total, sl		Total, sl	Avg., °F	Avg., WC"
47				178.6	9.4		66.5	33.3		194.3	83	0.9

0.6392051

KILN

	Mass In, g	Mass Out, g
Gross	2367.9	2306.0
Kiln tare	1764.9	1764.9
Net	603.0	541.1
Loss, % =	10.3	

FILTER

	Mass, g
Gross	1.0902
Tare	0.8140
Net	0.2762

IMPINGERS

		#1 D.I	#2 D.I.	#3 D.I.	#4 Empty	XAD #1	XAD #2
START	Gross, g	604.5	600.3	611.2	516.7	342.9	261.1
END	Gross, g	661.5	602.6	611.4	516.8	342.8	261.6
	Change, g	57.0	2.3	0.2	0.1	-0.1	0.5
VOLUMES	Impingers, mL	154.1	101.2	98.0	0.0		
	w/rinse, mL	225.2	162.8	167.7	83.4		

SOLUTION

Total, mL	650.0
Total, g	641.6

Batch Kiln Data Sheet

Project No. 10133
Date 7/6/2004
Test No. 3

Target Conditions:
Temperature, °F/°C 900°F/482°C
Sample Mill Street Prepared

Standard Conditions: 70°F and 1 atm

Time	Temperatures, °C			Purge Gas		Pressure	Exhaust Flows			Dry Test Meter		
	Shell	Bed	Filter, °F	N_2, slpm	O_2, slpm	" W.C.	THC, scfh	CEMs, scfh	Bag, L	Meter, ft^3	Temp, °F	" W.C.
12:35	20	20	425	3.8	0.2	0.2	3.0	1.5	0.0	216.21	74	0.8
12:40	195	36	427	3.8	0.2	0.2	3.0	1.5	0.0	217.08	74	0.9
12:45	360	82	426	3.8	0.2	0.4	3.0	1.5	0.0	218.04	76	1.0
12:50	446	123	423	3.8	0.2	0.4	3.0	1.5	0.0	219.01	76	0.9
12:55	518	302	421	3.8	0.2	0.4	3.0	1.5	0.0	219.91	77	0.8
13:00	529	447	422	3.8	0.2	0.2	3.0	1.5	0.0	220.88	79	1.1
13:03	531	482	424	3.8	0.2	0.2	3.0	1.5	0.0	221.50	79	1.0
13:22	82	93	411	3.8	0.2	0.2	3.0	1.5	0.0	224.95	81	0.8
Total, min				Total, sl	Total, sl		Total, sl	Total, sl		Total, sl	Avg., °F	Avg., WC"
47				178.6	9.4		66.5	33.3		205.0	77	0.9

0.6167377

KILN

	Mass In, g	Mass Out, g
Gross	2373.3	2277.0
Kiln tare	1764.6	1764.6
Net	608.7	512.4
Loss, % =	15.8	

FILTER

	Mass, g
Gross	1.6435
Tare	0.8205
Net	0.8230

IMPINGERS

		#1 D.I	#2 D.I.	#3 D.I.	#4 Empty	XAD #1	XAD #2
START	Gross, g	606.0	600.8	608.8	516.2	342.8	285.2
END	Gross, g	688.1	606.6	609.3	516.3	342.6	285.6
	Change, g	82.1	5.8	0.5	0.1	-0.2	0.4
VOLUMES	Impingers, mL	180.4	104.5	95.7	0.0		
	w/rinse, mL	284.5	154.7	149.0	52.8		

SOLUTION Total, mL 770.0
Total, g 767.5

Attachment E

Test Operational Data

Elm Street Prepared Sample, 700°F Test Temperature (Test 1)

Elapsed Time (min)	Offgas Composition CO (ppm)	CO2 (%)	O2 (%)	THC (ppm)	Furnace Shell (°F)	Kiln Bed (°F)	Kiln Gas (°F)	Kiln Outlet (°F)	Impinger Inlet (°F)	Impinger Outlet (°F)
0	0	0	18	24	80	67	66	72	135	69
1	0	0	6	19	80	67	66	72	142	69
2	0	0	5	19	90	67	66	72	148	69
3	0	0	5	9	145	69	68	72	152	69
4	0	0	4	9	217	72	75	74	158	67
5	0	0	4	9	292	82	87	83	161	67
6	0	0	4	9	366	95	99	93	163	67
7	0	0	4	9	432	108	115	105	167	67
8	0	0	4	9	494	133	132	123	169	67
9	0	0	4	9	548	150	149	142	175	67
10	0	0	4	9	598	169	164	157	184	67
11	0	0	4	19	645	191	177	172	198	67
12	0	0	4	24	686	195	197	189	211	66
13	0	0	3	24	726	200	226	224	221	66
14	0	0	4	44	760	200	254	245	229	66
15	14	0	4	54	772	201	283	254	231	66
16	17	0	4	73	776	252	315	257	223	66
17	15	0	4	79	779	319	360	238	211	66
18	78	0	4	128	779	387	410	226	204	66
19	165	0	3	848	783	434	454	230	202	66
20	401	1	3	771	783	490	494	244	202	66
21	752	1	3	858	785	534	530	260	202	66
22	1,093	1	3	897	787	565	560	272	204	66
23	1,658	1	3	873	787	597	586	282	206	66
24	2,173	1	3	908	787	623	608	288	207	66
25	2,194	1	2	922	787	648	628	294	207	66
26	2,228	1	2	1,045	787	667	643	301	207	66
27	2,137	1	2	1,142	787	680	656	305	207	66
28	2,037	1	2	1,250	789	694	668	311	209	66
29	2,025	1	2	1,322	579	704	674	315	211	66
30	2,004	1	2	1,166	292	697	628	294	207	67
31	1,781	1	2	721	290	649	579	271	206	67
32	1,262	1	2	479	255	604	526	250	206	69
33	788	1	3	362	249	553	475	232	206	69
34	447	0	3	304	238	503	431	218	206	69
35	240	0	4	269	206	454	393	207	206	69
36	91	0	4	245	234	418	359	193	206	69
37	36	0	4	229	240	378	330	186	207	69
38	29	0	4	215	229	348	302	176	207	69
39	8	0	4	196	221	320	276	166	207	69
40	0	0	4	185	213	294	256	161	207	69
41	0	0	4	176	205	270	238	155	206	69
42	0	0	4	161	197	252	220	148	206	69
43	0	0	4	152	187	231	205	142	202	69
44	0	0	4	147	182	213	191	138	202	69
45	0	0	4	137	164	201	179	133	200	69
46	0	0	4	181	143	195	165	108	169	69
Maximum	2,228	1	18	1,322	789	704	674	315	231	69
Average	504	0.30	3.9	356						

Operational Test Data

Elm Street Prepared Sample, 900°F Test Temperature (Test 2)

Elapsed Time (min)	Offgas Composition CO (ppm)	CO2 (%)	O2 (%)	THC (ppm)	Furnace Shell (°F)	Kiln Bed (°F)	Kiln Gas (°F)	Kiln Outlet (°F)	Impinger Inlet (°F)	Impinger Outlet (°F)
0	0	0	21	257	94	82	81	82	146	79
1	0	0	18	97	113	83	81	82	188	79
2	0	0	8	80	174	85	85	84	207	77
3	0	0	5	64	250	96	89	86	222	75
4	0	0	4	64	324	102	99	90	228	75
5	0	0	4	64	395	116	112	97	232	74
6	0	0	4	64	458	135	127	111	235	74
7	0	0	4	64	518	151	147	129	241	74
8	0	0	4	74	570	183	163	150	247	74
9	0	0	4	103	618	186	181	173	261	72
10	0	0	4	181	660	196	197	192	277	72
11	0	0	4	211	701	200	222	215	284	72
12	0	0	4	250	738	202	251	224	289	72
13	0	0	4	309	771	206	281	234	287	72
14	0	0	4	416	804	251	318	238	277	72
15	7	0	4	660	834	325	373	236	263	72
16	36	0	4	1,273	865	403	437	228	255	72
17	169	0	3	1,248	896	472	504	232	245	72
18	590	1	3	1,035	926	552	574	256	245	72
19	1,572	2	3	1,303	957	616	637	280	244	72
20	3,175	2	2	2,306	973	680	698	300	240	72
21	3,800	2	2	3,320	978	735	749	316	236	70
22	3,604	2	2	5,000	982	779	789	326	234	70
23	3,162	2	2	**5,500**	984	816	821	334	230	70
24	2,847	2	2	**5,500**	986	849	845	344	230	70
25	2,670	2	2	4,971	986	871	865	352	226	70
26	2,596	2	2	4,437	986	891	879	358	226	70
27	2,483	2	2	3,250	839	904	884	364	232	70
28	2,494	2	2	2,161	477	880	811	350	230	72
29	1,976	2	1	1,247	434	798	728	338	228	74
30	1,501	1	1	950	406	742	656	325	228	74
31	1,134	1	2	800	379	680	591	308	226	74
32	842	1	2	700	352	614	538	293	225	74
33	570	1	2	617	317	564	489	279	225	74
34	345	0	3	547	322	509	448	265	223	74
35	184	0	3	495	301	464	411	253	223	74
36	89	0	3	460	288	424	376	241	221	74
37	32	0	4	410	272	391	346	230	217	75
38	3	0	4	380	272	366	320	218	215	75
39	5	0	4	355	263	332	296	209	211	75
40	8	0	4	332	249	309	274	199	209	75
41	5	0	4	312	204	288	256	190	208	75
42	0	0	4	295	189	267	239	180	204	75
43	0	0	4	275	181	249	223	172	200	75
44	0	0	4	265	179	234	209	167	198	75
45	0	0	4	250	175	219	198	159	195	75
46	0	0	4	240	167	206	186	153	193	75
47	0	0	4	235	167	194	177	135	191	75
Maximum	3,800	2	21	5,500	986	904	884	364	289	79
Average	748	0.56	4.0	1,113						
Bag Average		4,000	ppmdv							

a) Values of THC above 5,000 ppm are estimated based on bag sample data.

Operational Test Data

Mill Street Prepared Sample, 900°F Test Temperature (Test 3)

Elapsed Time (min)	Offgas Composition CO (ppm)	CO2 (%)	O2 (%)	THC (ppm)	Furnace Shell (°F)	Kiln Bed (°F)	Kiln Gas (°F)	Kiln Outlet (°F)	Impinger Inlet (°F)	Impinger Outlet (°F)
0	36	0	21	553	70	68	69	74	135	71
1	23	0	19	107	80	68	67	74	202	71
2	37	0	6	58	134	69	69	74	218	71
3	30	0	4	39	207	76	76	76	226	71
4	19	0	4	33	283	83	88	83	232	69
5	42	0	4	24	359	93	94	89	234	69
6	33	0	4	19	427	101	103	97	238	69
7	18	0	4	24	490	121	118	108	240	69
8	31	0	4	79	546	137	141	125	244	69
9	36	0	4	220	597	161	166	145	247	67
10	20	0	4	229	642	175	191	164	255	67
11	30	0	4	235	686	194	214	181	269	67
12	45	0	4	327	725	196	238	208	283	67
13	26	0	4	407	762	199	260	227	290	67
14	30	0	3	347	795	207	280	237	290	67
15	55	0	4	269	825	213	303	247	290	67
16	49	0	4	245	854	233	330	258	288	67
17	54	0	4	269	882	280	371	266	282	67
18	121	0	4	377	911	381	434	272	266	67
19	310	1	4	873	939	472	508	306	265	67
20	966	1	3	1,440	965	566	565	332	263	67
21	2,627	3	2	2,644	974	621	623	347	263	67
22	**5,000**	4	1	3,184	978	691	690	363	261	67
23	**6,000**	4	2	4,427	982	745	752	373	259	67
24	**6,800**	4	2	**5,200**	984	793	800	383	257	67
25	**7,400**	4	1	**5,800**	986	841	833	391	255	67
26	**7,700**	3	2	**6,400**	986	859	857	392	251	67
27	**6,822**	3	2	**6,800**	988	885	875	396	249	67
28	**5,944**	2	2	**5,900**	988	901	889	398	245	66
29	**5,066**	2	2	5,000	441	893	844	388	240	66
30	4,189	2	1	2,549	449	831	767	359	236	67
31	2,952	1	1	1,454	432	755	690	330	230	67
32	1,987	1	1	1,126	409	692	620	305	230	67
33	1,358	1	1	975	374	631	562	281	228	67
34	1,007	1	2	892	361	571	509	260	227	67
35	839	1	2	813	352	516	463	242	225	67
36	606	0	2	752	323	472	423	226	223	67
37	396	0	3	707	312	431	384	214	221	67
38	274	0	3	668	293	395	352	200	219	67
39	160	0	3	633	272	359	325	191	217	67
40	80	0	4	597	262	330	298	182	215	67
41	58	0	4	567	255	303	275	174	212	67
42	55	0	4	533	247	283	253	166	210	67
43	28	0	4	503	237	258	235	159	206	67
44	21	0	4	470	221	242	220	153	204	67
45	42	0	4	446	211	226	206	148	200	67
46	36	0	4	420	203	211	192	142	199	67
47	17	0	4	401	186	197	181	138	197	67
48	31	0	4	421	167	193	175	124	137	67
Maximum	7,700	4	21	6,800	988	901	889	398	290	71
Average	1,418	0.78	3.8	1,356						

a) Values of CO and THC above 5,000 ppm are estimated based on bag sample data.

Attachment F

Bag Sample Analytical Data

Analytical Results from gas Bag Samples (mole%)

	Elm Street - 900°F Test Run					Mill Street - 900°F Test Run				
COMPONENT / SOIL TEMP	200°F	400°F	600°F	700°F	900°F	200°F	400°F	600°F	700°F	900°F
HELIUM	0.0040	0.0000	0.0400	0.0040	0.0000	0.0000	0.0000	0.0040	0.0000	0.0000
HYDROGEN	0.0000	0.0000	0.0000	0.0000	0.0110	0.0000	0.0000	0.0000	0.0000	0.1610
OXYGEN/ARGON	6.8250	6.2138	5.4236	5.7058	5.5187	4.9550	4.5949	3.0711	4.5131	3.6231
NITROGEN	93.1038	93.5125	93.1115	92.8028	93.3214	94.9688	94.6149	93.2164	91.3987	93.6668
CARBON MONOXIDE	0.0000	0.0080	0.2818	0.3119	0.2010	0.0000	0.0300	0.4619	0.7732	0.4617
CARBON DIOXIDE	0.0670	0.2640	1.1323	1.1168	0.8991	0.0760	0.7570	3.2050	3.2628	1.8203
METHANE	0.0002	0.0005	0.0027	0.0139	0.0212	0.0002	0.0006	0.0058	0.0233	0.0953
ETHYLENE		0.0001	0.0013	0.0064	0.0060		0.0002	0.0027	0.0068	0.0255
ETHANE		0.0001	0.0002	0.0013	0.0052			0.0003	0.0019	0.0297
PROPYLENE		0.0003	0.0015	0.0063	0.0066		0.0006	0.0050	0.0075	0.0376
PROPANE		0.0001	0.0002	0.0016	0.0022		0.0001	0.0003	0.0024	0.0145
2-METHYLPROPANE			0.0003	0.0005			0.0009	0.0124	0.0029	0.0004
I-BUTANE		0.0006	0.0001	0.0004	0.0002			0.0003	0.0006	0.0010
BUTENE-1/ISOBYTYLENE			0.0021	0.0157	0.0023		0.0005	0.0036	0.0004	0.0161
1,3-BUTADIENE			0.0002	0.0007	0.0004			0.0005	0.0004	0.0024
BUTANE			0.0002	0.0010	0.0012			0.0003	0.0009	0.0073
T-BUTENE-2			0.0004	0.0022	0.0006		0.0001	0.0014	0.0007	0.0038
2,2 DIMETHYLPROPANE				0.0001						
C-BUTENE-2			0.0003	0.0023	0.0005		0.0001	0.0007	0.0005	0.0030
3-METHYLBUTENE-1			0.0001	0.0004	0.0002				0.0002	0.0008
I-PENTANE			0.0001	0.0002	0.0002			0.0002	0.0002	0.0008
I-PROPANOL(?)			0.0004	0.0009				0.0027	0.0004	0.0002
PENTENE-1			0.0001	0.0006	0.0005			0.0003		0.0045
2-METHYLBUTENE-1			0.0002	0.0004	0.0001		0.0001	0.0005	0.0006	0.0011
PENTANE			0.0002	0.0005	0.0005			0.0003	0.0003	0.0036
ISOPRENE				0.0005	0.0002			0.0002	0.0002	0.0008
T-PENTENE-2				0.0002	0.0001				0.0003	0.0017
C-PENTENE-2				0.0002	0.0001					0.0008
2-METHYLBUTENE-2			0.0001	0.0005	0.0002			0.0003	0.0003	0.0014
3-METHYLBUTADIENE-1										0.0006
CYCLOPENTADIENE				0.0003				0.0007	0.0004	0.0010
1C,3-PETADIENE										0.0005
CYCLOPENTENE				0.0002						0.0009
4-METHYLPENTENE-1				0.0002						0.0006
CYCLOPENTANE										0.0003
2,3-DIMETHYLBUTENE-1				0.0002	0.0001					0.0004
2-METHYLPENTENE-1										0.0026
HEXENE-1				0.0004				0.0004		
N-HEXANE				0.0006	0.0002			0.0016	0.0006	0.0020
3-METHYLHEXENE-1								0.0006	0.0004	
2-ETHYLPENTENE-1								0.0003		
C-HEXENE-3										0.0003
T-HEXENE-2										0.0005
2-METHYLPENTENE-2										0.0007
METHYLCYCLOPENTANE										0.0003
3,4-DIMETHYLPENTENE-1										0.0005
1-METHYLCYCLOPENTENE										0.0004
BENZENE										0.0019
CYCLOHEXANE										0.0004
1,5-HEPTADIENE										0.0008
TOLUENE										0.0001

EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET
BRIGHTON, CO 80601
(303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :	**0407018**	ANALYSIS NO. :	**05**
COMPANY NAME :	**HAZEN RESEARCH**	ANALYSIS DATE:	JULY 7, 2004
ACCOUNT NO. :		SAMPLE DATE :	
PRODUCER :		TO:	
LEASE NO. :		CYLINDER NO. :	1L TEDLAR
NAME/DESCRIP :	2902-21-01		

FIELD DATA

SAMPLED BY:
SAMPLE PRES. : SAMPLE TEMP. 200°F AMBIENT TEMP.:
GRAVITY :
COMMENTS : Elm Street - 900

COMPONENT	MOLE %
HELIUM	0.0040
HYDROGEN	0.0000
OXYGEN/ARGON	6.8250
NITROGEN	93.1038
CARBON MONOXIDE	0.0000
CARBON DIOXIDE	0.0670
METHANE	0.0002
TOTAL	100.0000

EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET
BRIGHTON, CO 80601
(303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :	**0407018**	ANALYSIS NO. :	**06**
COMPANY NAME :	**HAZEN RESEARCH**	ANALYSIS DATE:	JULY 7, 2004
ACCOUNT NO. :		SAMPLE DATE :	
PRODUCER :		TO:	
LEASE NO. :		CYLINDER NO. :	1L TEDLAR
NAME/DESCRIP :	2902-21-02		

FIELD DATA

SAMPLED BY:
SAMPLE PRES. : SAMPLE TEMP. 400°F AMBIENT TEMP.:
COMMENTS : Elm Street-900 GRAVITY :

COMPONENT	MOLE %
HELIUM	0.0000
HYDROGEN	0.0000
OXYGEN/ARGON	6.2138
NITROGEN	93.5125
CARBON MONOXIDE	0.0080
CARBON DIOXIDE	0.2640
METHANE	0.0005
ETHYLENE	0.0001
ETHANE	0.0001
PROPYLENE	0.0003
PROPANE	0.0001
I-BUTANE/ISOBYTYLENE	0.0006
TOTAL	100.0000

EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET
BRIGHTON, CO 80601
(303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :	**0407018**	ANALYSIS NO. :	**07**
COMPANY NAME :	**HAZEN RESEARCH**	ANALYSIS DATE:	JULY 7, 2004
ACCOUNT NO. :		SAMPLE DATE :	
PRODUCER :		TO:	
LEASE NO. :		CYLINDER NO. :	1L TEDLAR
NAME/DESCRIP :	2902-21-03		

FIELD DATA

SAMPLED BY:
SAMPLE PRES. : SAMPLE TEMP. 600°F AMBIENT TEMP.:
COMMENTS : Elm Street -900 GRAVITY :

COMPONENT	MOLE %
HELIUM	0.0400
HYDROGEN	0.0000
OXYGEN/ARGON	5.4236
NITROGEN	93.1115
CARBON MONOXIDE	0.2818
CARBON DIOXIDE	1.1323
METHANE	0.0027
ETHYLENE	0.0013
ETHANE	0.0002
PROPYLENE	0.0015
PROPANE	0.0002
2-METHYLPROPANE	0.0003
I-BUTANE	0.0001
BUTENE-1/ISOBYTYLENE	0.0021
1,3-BUTADIENE	0.0002
BUTANE	0.0002
T-BUTENE-2	0.0004
C-BUTENE-2	0.0003
3-METHYLBUTENE-1	0.0001
I-PENTANE	0.0001
I-PROPANOL(?)	0.0004
PENTENE-1	0.0001
2-METHYLBUTENE-1	0.0002
PENTANE	0.0002
2-METHYLBUTENE-2	0.0001
T-BUTANOL(?)	0.0001
TOTAL	100.0000

EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET
BRIGHTON, CO 80601
(303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :	**0407018**	ANALYSIS NO. :	**08**
COMPANY NAME :	**HAZEN RESEARCH**	ANALYSIS DATE:	JULY 7, 2004
ACCOUNT NO. :		SAMPLE DATE :	
PRODUCER :		TO:	
LEASE NO. :		CYLINDER NO. :	1L TEDLAR
NAME/DESCRIP :	2902-21-04		

FIELD DATA

SAMPLED BY:
SAMPLE PRES. : SAMPLE TEMP. 700°F AMBIENT TEMP.:
COMMENTS : Elm Street -900 GRAVITY :

COMPONENT	MOLE %
HELIUM	0.0040
HYDROGEN	0.0000
OXYGEN/ARGON	5.7058
NITROGEN	92.8028
CARBON MONOXIDE	0.3119
CARBON DIOXIDE	1.1168
METHANE	0.0139
ETHYLENE	0.0064
ETHANE	0.0013
PROPYLENE	0.0063
PROPANE	0.0016
2-METHYLPROPANE	0.0005
I-BUTANE	0.0004
BUTENE-1/ISOBYTYLENE	0.0157
1,3-BUTADIENE	0.0007
N-BUTANE	0.0010
T-BUTENE-2	0.0022
2,2 DIMETHYLPROPANE	0.0001
C-BUTENE-2	0.0023
3-METHYLBUTENE-1	0.0004
I-PENTANE	0.0002
I-PROPANOL(?)	0.0009
PENTENE-1	0.0006
2-METHYLBUTENE-1	0.0004
N-PENTANE	0.0005
ISOPRENE	0.0005
T-PENTENE-2	0.0002
C-PENTENE-2	0.0002
2-METHYLBUTENE-2	0.0005
CYCLOPENTADIENE	0.0003
CYCLOPENTENE	0.0002
4-METHYLPENTENE-1	0.0002
2,3-DIMETHYLBUTENE-1	0.0002
HEXENE-1	0.0004
N-HEXANE	0.0006
TOTAL	100.0000

EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET
BRIGHTON, CO 80601
(303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :	**0407018**	ANALYSIS NO. :	**09**
COMPANY NAME :	**HAZEN RESEARCH**	ANALYSIS DATE:	JULY 7, 2004
ACCOUNT NO. :		SAMPLE DATE :	
PRODUCER :		TO:	
LEASE NO. :		CYLINDER NO. :	1L TEDLAR
NAME/DESCRIP :	2902-21-05		

FIELD DATA

SAMPLED BY:
SAMPLE PRES. :
SAMPLE TEMP. 900°F
AMBIENT TEMP.:
GRAVITY :
COMMENTS : Elm Street 900

COMPONENT	MOLE %
HELIUM	0.0000
HYDROGEN	0.0110
OXYGEN/ARGON	5.5187
NITROGEN	93.3214
CARBON MONOXIDE	0.2010
CARBON DIOXIDE	0.8991
METHANE	0.0212
ETHYLENE	0.0060
ETHANE	0.0052
PROPYLENE	0.0066
PROPANE	0.0022
I-BUTANE	0.0002
BUTENE-1/ISOBYTYLENE	0.0023
1,3-BUTADIENE	0.0004
N-BUTANE	0.0012
T-BUTENE-2	0.0006
C-BUTENE-2	0.0005
3-METHYLBUTENE-1	0.0002
I-PENTANE	0.0002
PENTENE-1	0.0005
2-METHYLBUTENE-1	0.0001
N-PENTANE	0.0005
ISOPRENE	0.0002
T-PENTENE-2	0.0001
C-PENTENE-2	0.0001
2-METHYLBUTENE-2	0.0002
2,3-DIMETHYLBUTENE-1	0.0001
N-HEXANE	0.0002
TOTAL	100.0000

EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET
BRIGHTON, CO 80601
(303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :	**0407018**	ANALYSIS NO. :	**10**
COMPANY NAME :	**HAZEN RESEARCH**	ANALYSIS DATE:	JULY 7, 2004
ACCOUNT NO. :		SAMPLE DATE :	
PRODUCER :		TO:	
LEASE NO. :		CYLINDER NO. :	1L TEDLAR
NAME/DESCRIP :	2902-23-01		

FIELD DATA

SAMPLED BY:
SAMPLE PRES. : SAMPLE TEMP. 200°F AMBIENT TEMP.:
COMMENTS : Mill Street 900 GRAVITY :

COMPONENT	MOLE %
HELIUM	0.0000
HYDROGEN	0.0000
OXYGEN/ARGON	4.9550
NITROGEN	94.9688
CARBON MONOXIDE	0.0000
CARBON DIOXIDE	0.0760
METHANE	0.0002
TOTAL	100.0000

EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET
BRIGHTON, CO 80601
(303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :	**0407018**	ANALYSIS NO. :	**11**
COMPANY NAME :	**HAZEN RESEARCH**	ANALYSIS DATE:	JULY 7, 2004
ACCOUNT NO. :		SAMPLE DATE :	
PRODUCER :		TO:	
LEASE NO. :		CYLINDER NO. :	1L TEDLAR
NAME/DESCRIP :	2902-23-02		

FIELD DATA

SAMPLED BY:
SAMPLE PRES. : SAMPLE TEMP. 400°F AMBIENT TEMP.:
COMMENTS : Mill Street - 900 GRAVITY :

COMPONENT	MOLE %
HELIUM	0.0000
HYDROGEN	0.0000
OXYGEN/ARGON	4.5949
NITROGEN	94.6149
CARBON MONOXIDE	0.0300
CARBON DIOXIDE	0.7570
METHANE	0.0006
ETHYLENE	0.0002
PROPYLENE	0.0006
PROPANE	0.0001
2-METHYLPROPANE	0.0009
BUTENE-1/ISOBYTYLENE	0.0005
T-BUTENE-2	0.0001
C-BUTENE-2	0.0001
2-METHYLBUTENE-1	0.0001
TOTAL	100.0000

EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET
BRIGHTON, CO 80601
(303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :	**0407018**	ANALYSIS NO. :	**12**
COMPANY NAME :	**HAZEN RESEARCH**	ANALYSIS DATE:	JULY 7, 2004
ACCOUNT NO. :		SAMPLE DATE :	
PRODUCER :		TO:	
LEASE NO. :		CYLINDER NO. :	1L TEDLAR
NAME/DESCRIP :	2902-23-03		

FIELD DATA

SAMPLED BY:
SAMPLE PRES. : SAMPLE TEMP. 600°F AMBIENT TEMP.:
COMMENTS : Mill Street-900 GRAVITY :

COMPONENT	MOLE %
HELIUM	0.0040
HYDROGEN	0.0000
OXYGEN/ARGON	3.0711
NITROGEN	93.2164
CARBON MONOXIDE	0.4619
CARBON DIOXIDE	3.2050
METHANE	0.0058
ETHYLENE	0.0027
ETHANE	0.0003
PROPYLENE	0.0050
PROPANE	0.0003
2-METHYLPROPANE	0.0124
I-BUTANE	0.0003
BUTENE-1/ISOBYTYLENE	0.0036
1,3-BUTADIENE	0.0005
N-BUTANE	0.0003
T-BUTENE-2	0.0014
C-BUTENE-2	0.0007
ETHANOL(?)	0.0002
I-PENTANE	0.0002
I-PROPANOL(?)	0.0027
PENTENE-1	0.0003
2-METHYLBUTENE-1	0.0005
N-PENTANE	0.0003
ISOPRENE	0.0002
2-METHYLBUTENE-2	0.0003
CYCLOPENTADIENE	0.0007
HEXENE-1	0.0004
N-HEXANE	0.0016
3-METHYLHEXENE-1	0.0006
2-ETHYLPENTENE-1	0.0003
TOTAL	100.0000

EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET
BRIGHTON, CO 80601
(303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :	**0407018**	ANALYSIS NO. :	**13**
COMPANY NAME :	**HAZEN RESEARCH**	ANALYSIS DATE:	JULY 7, 2004
ACCOUNT NO. :		SAMPLE DATE :	
PRODUCER :		TO:	
LEASE NO. :		CYLINDER NO. :	1L TEDLAR
NAME/DESCRIP :	2902-23-04		

FIELD DATA

SAMPLED BY:
SAMPLE PRES. : SAMPLE TEMP. 700°F AMBIENT TEMP.:
COMMENTS : Mill Street - 900 GRAVITY :

COMPONENT	MOLE %
HELIUM	0.0000
HYDROGEN	0.0000
OXYGEN/ARGON	4.5131
NITROGEN	91.3987
CARBON MONOXIDE	0.7732
CARBON DIOXIDE	3.2628
METHANE	0.0233
ETHYLENE	0.0068
ETHANE	0.0019
PROPYLENE	0.0075
PROPANE	0.0024
2-METHYLPROPANE	0.0029
I-BUTANE	0.0006
BUTENE-1/ISOBYTYLENE	0.0004
1,3-BUTADIENE	0.0004
N-BUTANE	0.0009
T-BUTENE-2	0.0007
C-BUTENE-2	0.0005
3-METHYLBUTENE-1	0.0002
I-PENTANE	0.0002
I-PROPANOL(?)	0.0004
2-METHYLBUTENE-1	0.0006
N-PENTANE	0.0003
ISOPRENE	0.0002
T-PENTENE-2	0.0003
2-METHYLBUTENE-2	0.0003
CYCLOPENTADIENE	0.0004
N-HEXANE	0.0006
3-METHYLHEXENE-1	0.0004
TOTAL	100.0000

EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET
BRIGHTON, CO 80601
(303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :	**0407018**	ANALYSIS NO. :	**14**
COMPANY NAME :	**HAZEN RESEARCH**	ANALYSIS DATE:	JULY 7, 2004
ACCOUNT NO. :		SAMPLE DATE :	
PRODUCER :		TO:	
LEASE NO. :		CYLINDER NO. :	1L TEDLAR
NAME/DESCRIP :	2902-23-05		

FIELD DATA

SAMPLED BY:
SAMPLE PRES. : SAMPLE TEMP. 900°F AMBIENT TEMP.:
COMMENTS : Mill Street -900 GRAVITY :

COMPONENT	MOLE %
HELIUM	0.0000
HYDROGEN	0.1610
OXYGEN/ARGON	3.6231
NITROGEN	93.6668
CARBON MONOXIDE	0.4617
CARBON DIOXIDE	1.8203
METHANE	0.0953
ETHYLENE	0.0255
ETHANE	0.0297
PROPYLENE	0.0376
PROPANE	0.0145
2-METHYLPROPANE	0.0004
I-BUTANE	0.0010
BUTENE-1/ISOBYTYLENE	0.0161
1,3-BUTADIENE	0.0024
N-BUTANE	0.0073
T-BUTENE-2	0.0038
C-BUTENE-2	0.0030
3-METHYLBUTENE-1	0.0008
I-PENTANE	0.0008
I-PROPANOL(?)	0.0002
PENTENE-1	0.0045
2-METHYLBUTENE-1	0.0011
N-PENTANE	0.0036
ISOPRENE	0.0008
T-PENTENE-2	0.0017
C-PENTENE-2	0.0008
2-METHYLBUTENE-2	0.0014
3-METHYLBUTADIENE-1	0.0006
CYCLOPENTADIENE	0.0010
1C,3-PETADIENE	0.0005
CYCLOPENTENE	0.0009
4-METHYLPENTENE-1	0.0006
CYCLOPENTANE	0.0003
2,3 DIMETHYLBUTANE	0.0004
2-METHYLPENTENE-1	0.0026
N-HEXANE	0.0020

C-HEXENE-3	0.0003
T-HEXENE-2	0.0005
2-METHYLPENTENE-2	0.0007
METHYLCYCLOPENTANE	0.0003
3,4-DIMETHYLPENTENE-1	0.0005
1-METHYLCYCLOPENTENE	0.0004
BENZENE	0.0019
CYCLOHEXANE	0.0004
1,5-HEPTADIENE	0.0008
TOLUENE	0.0001
TOTAL	100.0000

Attachment G

Generation Factor Calculations

Treatability Study Calculations

GE Fletcher Paint Site - BBL

Elm Street Site Soil Matrix, Soil Treatment Temperature = 700 °F, 5 vol% O2 Purge

What do we want to determine?

COT	Mass of Carbon Monoxide generated per mass of starting soil
COC	Mass of Carbon Monoxide generated per mass of starting carbon
HCT	Mass of THC generated per mass of starting soil
HCC	Mass of THC generated per mass of starting carbon
CCT	Mass of condensable carbon generated per mass of starting soil
CCC	Mass of condensable carbon generated per mass of starting carbon
CCW	Weight percent of condensed carbon in aqueous layer
C2T	Mass of Carbon Dioxide generated per mass of starting soil
C2C	Mass of Carbon Dioxide generated per mass of starting carbon
HT	Mass of Hydrogen generated per mass of starting soil
HC	Mass of Hydrogen generated per mass of starting carbon
C2/CO	Mass of Carbon in CO_2 per Mass of Carbon in CO
NAOH	Mass of sodium hydroxide per ton of soil to neutralize acidity in water phase

Given:

SM	Starting Soil Mass	607.7	g
TM	Treated Soil Mass	548.6	g
FM	Mass Captured on Filter	0.1707	g
WLM	Mass of Impinger Water Layer	545.2	g
OLM	Mass of Impinger Organic Layer	0	g
OV	Total Test Offgas Volume	9.679	ft^3 (@ 0°C, 1 atm)
CS	Starting Carbon Concentration	1.28	wt%, wet basis
CT	Treated Soil Carbon Concentration	1.65	wt%, wet basis
SS	Concentration of Sulfur in Starting Soil	0.020	wt%, wet basis
ST	Concentration of Sulfur in Treated Soil	0.020	wt%, wet basis
NS	Concentration of Nitrogen in Starting Soil	0.230	wt%, wet basis
NT	Concentration of Nitrogen in Treated Soil	0.250	wt%, wet basis
VS	Concentration of Volatile Matter in Starting Soil	2.04	wt%, wet basis
VT	Concentration of Volatile Matter in Treated Soil	2.91	wt%, wet basis
TOC	Concentration of TOC in Water Layer	38	mg/l
SWL	Concentration of Sulfur in Water Layer	ND	mg/l
CWL	Concentration of Chloride in Water Layer	ND	mg/l
AC	Acidity of Water Layer	ND	mg/l (as $CaCO_3$)
OC	Carbon Content of Organic Layer	NL	wt% (assumed)
THC	Average THC Concentration in Offgas	356	ppmv (after impingers)
CO	Average CO Concentration in Offgas	540	ppmv
CO2	Average CO_2 Concentration in Offgas	3,000	ppmv
H	Average Hydrogen Concentration in Offgas	22	ppmv

Constants

MWHC	Molecular Weight of THC (as propane)	44	lb/lbmole
MWCO	Molecular Weight of Carbon Monoxide	28	lb/lbmole
MWCO2	Molecular Weight of Carbon Dioxide	44	lb/lbmole
MWH	Molecular Weight of Hydrogen	2	lb/lbmole
MV	Molar Volume	359	ft^3/lbmole
CAUST	Mass of NaOH to neutralize 1 mg/l of acidity	8.0136E-07	g NaOH/g of water

Treatability Study Calculations

GE Fletcher Paint Site - BBL

Elm Street Site Soil Matrix, Soil Treatment Temperature = 700 °F, 5 vol% O2 Purge

Calculations:

Carbon Balance			(g) Carbon Balance	(%) Recovery
Starting Carbon = SC = SM x CS / 100 =			7.8	
Treated Soil Carbon = TC = TM x CT / 100 =			9.1	116.37
Filter Catch Carbon = FCC = FM (i.e., assume filter catch is 50% carbon)			0.009	0.11
Water Layer Carbon = WLC = WLM x TOC / 1,000,000 =			0.0207	0.27
Organic Layer Carbon = OLC = OLM x OC / 100 =			NL	NL
Offgas THC = HCM = OV x THC x MWHC x 454 / MV / 1,000,000 =	0.1917	g	0.157	2.02
Offgas CO = COM = OV x CO x MWCO x 454 / MV / 1,000,000 =	0.1851	g	0.079	1.02
Offgas CO_2 = CO2M = OV x CO2 x MWCO2 x 454 / MV / 1,000,000 =	1.6156	g	0.441	5.66
	Total Carbon Recovery			125.4

Miscellaneous Mass

Offgas Hydrogen = HM = OV x H x MWH x 454 / MV / 1,000,000 =	0.00054	g
Starting Sulfur = SSM = SS x SM / 100 =	0.122	g
Treated Soil Sulfur = STM = ST x TM / 100 =	0.110	g
Sulfur in Impinger Water = SW = SWL x WLM / 1,000 / 1,000 =	ND	g
Chloride in Impinger Water = CW = CWL x WLM / 1,000 / 1,000 =	ND	g
Starting Nitrogen = NSM = NS x SM / 100 =	1.398	g
Treated Soil Nitrogen = NTM = NT x TM / 100 =	1.372	g
Starting Volatile Matter = VSM = VS x SM / 100 =	12.40	g
Treated Volatile Matter = VTM = VT x TM / 100 =	15.96	g

Generation Factor (per ton of starting soil)

COT = COM x 2,000 / SM =	0.6091	lb CO/ton of starting soil
HCT = HCM x 2,000 / SM =	0.6310	lb THC/ton of starting soil
CCT = (WLC + OLC) x 2,000 / SM =	0.0682	lb condensable carbon/ton of starting soil
C2T = CO2M x 2,000 / SM =	5.3172	lb CO_2/ton of starting soil
HT = HM x 2,000 / SM =	0.001772	lb H_2/ton of starting soil

Generation Factor (per lb of starting carbon)

COC = COM / SC =	0.023792	lb CO/lb of starting carbon
HCC = HCM / SC =	0.024648	lb THC/lb of starting carbon
CCC = (WLC + OLC) / SC =	0.002663	lb condensable carbon/lb of starting carbon
C2C = CO2M / SC =	0.207704	lb CO_2/lb of starting carbon
HC = HM / SC =	0.000069	lb H_2/lb of starting carbon
C2/CO = CO2 Carbon/CO Carbon =	5.6	lb carbon in CO_2/lb of carbon in CO

ND - Component used in this calculation was not detected
NM - Parameter was not measured
NL - No layer was quantifiable

Treatability Study Calculations

GE Fletcher Paint Site - BBL

Elm Street Site Soil Matrix, Soil Treatment Temperature = 900 °F, 5 vol% O2 Purge

What do we want to determine?

COT	Mass of Carbon Monoxide generated per mass of starting soil
COC	Mass of Carbon Monoxide generated per mass of starting carbon
HCT	Mass of THC generated per mass of starting soil
HCC	Mass of THC generated per mass of starting carbon
CCT	Mass of condensable carbon generated per mass of starting soil
CCC	Mass of condensable carbon generated per mass of starting carbon
CCW	Weight percent of condensed carbon in aqueous layer
C2T	Mass of Carbon Dioxide generated per mass of starting soil
C2C	Mass of Carbon Dioxide generated per mass of starting carbon
HT	Mass of Hydrogen generated per mass of starting soil
HC	Mass of Hydrogen generated per mass of starting carbon
C2/CO	Mass of Carbon in CO_2 per Mass of Carbon in CO
NAOH	Mass of sodium hydroxide per ton of soil to neutralize acidity in water phase

Given:

SM	Starting Soil Mass	603	g
TM	Treated Soil Mass	541.1	g
FM	Mass Captured on Filter	0.2762	g
WLM	Mass of Impinger Water Layer	641.6	g
OLM	Mass of Impinger Organic Layer	0	g
OV	Total Test Offgas Volume	9.646	ft^3 (@ 32°F, 1 atm)
CS	Starting Carbon Concentration	1.28	wt%, wet basis
CT	Treated Soil Carbon Concentration	1.36	wt%, wet basis
SS	Concentration of Sulfur in Starting Soil	0.020	wt%, wet basis
ST	Concentration of Sulfur in Treated Soil	0.020	wt%, wet basis
NS	Concentration of Nitrogen in Starting Soil	0.230	wt%, wet basis
NT	Concentration of Nitrogen in Treated Soil	0.230	wt%, wet basis
VS	Concentration of Volatile Matter in Starting Soil	2.04	wt%, wet basis
VT	Concentration of Volatile Matter in Treated Soil	1.92	wt%, wet basis
TOC	Concentration of TOC in Water Layer	38	mg/l
SWL	Concentration of Sulfur in Water Layer	4	mg/l
CWL	Concentration of Chloride in Water Layer	ND	mg/l
AC	Acidity of Water Layer	ND	mg/l (as $CaCO_3$)
OC	Carbon Content of Organic Layer	NL	wt% (assumed)
THC	Average THC Concentration in Offgas	1,113	ppmv (after impingers)
CO	Average CO Concentration in Offgas	748	ppmv
CO2	Average CO_2 Concentration in Offgas	7,726	ppmv
H	Average Hydrogen Concentration in Offgas	22	ppmv

Constants

MWHC	Molecular Weight of THC (as propane)	44	lb/lbmole
MWCO	Molecular Weight of Carbon Monoxide	28	lb/lbmole
MWCO2	Molecular Weight of Carbon Dioxide	44	lb/lbmole
MWH	Molecular Weight of Hydrogen	2	lb/lbmole
MV	Molar Volume	359	ft^3/lbmole
CAUST	Mass of NaOH to neutralize 1 mg/l of acidity	8.0136E-07	g NaOH/g of water

Treatability Study Calculations

GE Fletcher Paint Site - BBL

Elm Street Site Soil Matrix, Soil Treatment Temperature = 900 °F, 5 vol% O2 Purge

Calculations:

Carbon Balance			(g) Carbon Balance	(%) Recovery
Starting Carbon = SC = SM x CS / 100 =			7.7	
Treated Soil Carbon = TC = TM x CT / 100 =			7.4	95.34
Filter Catch Carbon = FCC = FM (i.e., assume filter catch is 50% carbon)			0.014	0.18
Water Layer Carbon = WLC = WLM x TOC / 1,000,000 =			0.0	0.32
Organic Layer Carbon = OLC = OLM x OC / 100 =			NL	NL
Offgas THC = HCM = OV x THC x MWHC x 454 / MV / 1,000,000 =	0.5974	g	0.489	6.33
Offgas CO = COM = OV x CO x MWCO x 454 / MV / 1,000,000 =	0.2555	g	0.109	1.42
Offgas CO_2 = CO2M = OV x CO2 x MWCO2 x 454 / MV / 1,000,000 =	4.1467	g	1.131	14.65
	Total Carbon Recovery			118.2

Miscellaneous Mass

Offgas Hydrogen = HM = OV x H x MWH x 454 / MV / 1,000,000 =	0.00054	g
Starting Sulfur = SSM = SS x SM / 100 =	0.121	g
Treated Soil Sulfur = STM = ST x TM / 100 =	0.108	g
Sulfur in Impinger Water = SW = SWL x WLM / 1,000 / 1,000 =	0.003	g
Chloride in Impinger Water = CW = CWL x WLM / 1,000 / 1,000 =	ND	g
Starting Nitrogen = NSM = NS x SM / 100 =	1.387	g
Treated Soil Nitrogen = NTM = NT x TM / 100 =	1.245	g
Starting Volatile Matter = VSM = VS x SM / 100 =	12.30	g
Treated Volatile Matter = VTM = VT x TM / 100 =	10.39	g

Generation Factor (per ton of starting soil)

COT = COM x 2,000 / SM =	0.8474	lb CO/ton of starting soil
HCT = HCM x 2,000 / SM =	1.9813	lb THC/ton of starting soil
CCT = (WLC + OLC) x 2,000 / SM =	0.0809	lb condensable carbon/ton of starting soil
C2T = CO2M x 2,000 / SM =	13.7536	lb CO_2/ton of starting soil
HT = HM x 2,000 / SM =	0.001780	lb H_2/ton of starting soil

Generation Factor (per lb of starting carbon)

COC = COM / SC =	0.033100	lb CO/lb of starting carbon
HCC = HCM / SC =	0.077396	lb THC/lb of starting carbon
CCC = (WLC + OLC) / SC =	0.003159	lb condensable carbon/lb of starting carbon
C2C = CO2M / SC =	0.537249	lb CO_2/lb of starting carbon
HC = HM / SC =	0.000070	lb H_2/lb of starting carbon
C2/CO = CO2 Carbon/CO Carbon =	10.3	lb carbon in CO_2/lb of carbon in CO

ND - Component used in this calculation was not detected
NM - Parameter was not measured
NL - No layer was quantifiable

Treatability Study Calculations

GE Fletcher Paint Site - BBL

Mill Street Site Soil Matrix, Soil Treatment Temperature = 900 °F, 5 vol% O2 Purge

What do we want to determine?

COT	Mass of Carbon Monoxide generated per mass of starting soil
COC	Mass of Carbon Monoxide generated per mass of starting carbon
HCT	Mass of THC generated per mass of starting soil
HCC	Mass of THC generated per mass of starting carbon
CCT	Mass of condensable carbon generated per mass of starting soil
CCC	Mass of condensable carbon generated per mass of starting carbon
CCW	Weight percent of condensed carbon in aqueous layer
C2T	Mass of Carbon Dioxide generated per mass of starting soil
C2C	Mass of Carbon Dioxide generated per mass of starting carbon
HT	Mass of Hydrogen generated per mass of starting soil
HC	Mass of Hydrogen generated per mass of starting carbon
C2/CO	Mass of Carbon in CO_2 per Mass of Carbon in CO
NAOH	Mass of sodium hydroxide per ton of soil to neutralize acidity in water phase

Given:

SM	Starting Soil Mass	608.7	g
TM	Treated Soil Mass	512.4	g
FM	Mass Captured on Filter	0.823	g
WLM	Mass of Impinger Water Layer	767.5	g
OLM	Mass of Impinger Organic Layer	0	g
OV	Total Test Offgas Volume	9.997	ft^3 (@ 32°F, 1 atm)
CS	Starting Carbon Concentration	3.4	wt%, wet basis
CT	Treated Soil Carbon Concentration	1.28	wt%, wet basis
SS	Concentration of Sulfur in Starting Soil	0.050	wt%, wet basis
ST	Concentration of Sulfur in Treated Soil	0.020	wt%, wet basis
NS	Concentration of Nitrogen in Starting Soil	0.240	wt%, wet basis
NT	Concentration of Nitrogen in Treated Soil	0.220	wt%, wet basis
VS	Concentration of Volatile Matter in Starting Soil	3.71	wt%, wet basis
VT	Concentration of Volatile Matter in Treated Soil	2.05	wt%, wet basis
TOC	Concentration of TOC in Water Layer	38	mg/l
SWL	Concentration of Sulfur in Water Layer	7.0	mg/l
CWL	Concentration of Chloride in Water Layer	5.6	mg/l
AC	Acidity of Water Layer	ND	mg/l (as $CaCO_3$)
OC	Carbon Content of Organic Layer	NL	wt% (assumed)
THC	Average THC Concentration in Offgas	1,344	ppmv (after impingers)
CO	Average CO Concentration in Offgas	1,395	ppmv
CO2	Average CO_2 Concentration in Offgas	22,619	ppmv
H	Average Hydrogen Concentration in Offgas	322	ppmv

Constants

MWHC	Molecular Weight of THC (as propane)	44	lb/lbmole
MWCO	Molecular Weight of Carbon Monoxide	28	lb/lbmole
MWCO2	Molecular Weight of Carbon Dioxide	44	lb/lbmole
MWH	Molecular Weight of Hydrogen	2	lb/lbmole
MV	Molar Volume	359	ft^3/lbmole
CAUST	Mass of NaOH to neutralize 1 mg/l of acidity	8.0136E-07	g NaOH/g of water

Treatability Study Calculations

GE Fletcher Paint Site - BBL

Mill Street Site Soil Matrix, Soil Treatment Temperature = 900 °F, 5 vol% O2 Purge

Calculations:

Carbon Balance			(g) Carbon Balance	(%) Recovery
Starting Carbon = SC = SM x CS / 100 =			20.7	
Treated Soil Carbon = TC = TM x CT / 100 =			6.6	31.69
Filter Catch Carbon = FCC = FM (i.e., assume filter catch is 50% carbon)			0.412	1.99
Water Layer Carbon = WLC = WLM x TOC / 1,000,000 =			0.03	0.14
Organic Layer Carbon = OLC = OLM x OC / 100 =			NL	NL
Offgas THC = HCM = OV x THC x MWHC x 454 / MV / 1,000,000 =	0.7476	g	0.612	2.96
Offgas CO = COM = OV x CO x MWCO x 454 / MV / 1,000,000 =	0.4938	g	0.212	1.02
Offgas CO_2 = CO2M = OV x CO2 x MWCO2 x 454 / MV / 1,000,000 =	12.5818	g	3.431	16.58
	Total Carbon Recovery			54.4

Miscellaneous Mass		
Offgas Hydrogen = HM = OV x H x MWH x 454 / MV / 1,000,000 =	0.00814	g
Starting Sulfur = SSM = SS x SM / 100 =	0.304	g
Treated Soil Sulfur = STM = ST x TM / 100 =	0.102	g
Sulfur in Impinger Water = SW = SWL x WLM / 1,000 / 1,000 =	0.005	g
Chloride in Impinger Water = CW = CWL x WLM / 1,000 / 1,000 =	0.004	g
Starting Nitrogen = NSM = NS x SM / 100 =	1.461	g
Treated Soil Nitrogen = NTM = NT x TM / 100 =	1.127	g
Starting Volatile Matter = VSM = VS x SM / 100 =	22.58	g
Treated Volatile Matter = VTM = VT x TM / 100 =	10.50	g

Generation Factor (per ton of starting soil)		
COT = COM x 2,000 / SM =	1.6225	lb CO/ton of starting soil
HCT = HCM x 2,000 / SM =	2.4564	lb THC/ton of starting soil
CCT = (WLC + OLC) x 2,000 / SM =	0.0958	lb condensable carbon/ton of starting soil
C2T = CO2M x 2,000 / SM =	41.3398	lb CO_2/ton of starting soil
HT = HM x 2,000 / SM =	0.026750	lb H_2/ton of starting soil

Generation Factor (per lb of starting carbon)		
COC = COM / SC =	0.023860	lb CO/lb of starting carbon
HCC = HCM / SC =	0.036123	lb THC/lb of starting carbon
CCC = (WLC + OLC) / SC =	0.001409	lb condensable carbon/lb of starting carbon
C2C = CO2M / SC =	0.607938	lb CO_2/lb of starting carbon
HC = HM / SC =	0.000393	lb H_2/lb of starting carbon

C2/CO = CO2 Carbon/CO Carbon =	16.2	lb carbon in CO_2/lb of carbon in CO

ND - Component used in this calculation was not detected
NM - Parameter was not measured
NL - No layer was quantifiable

Appendix L

Appendix L

Soil Sampling Data Validation Report

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Appendix L: Table of Contents

L Regulatory Correspondence

- EPA Comments on Data Validation Reports for SDGs 121001 and 121901 dated July 1, 2004
- GE e-mail Requesting Clarification of Delineation Sample Definition dated July 23, 2004
- EPA Letter Providing Clarification of Delineation Sample Definition dated August 19, 2004
- GE Response to EPA July 1, 2004 Data Validation Report Comments dated August 27, 2004
- EPA Comments on PCB Chromatograms dated October 28, 2004
- GE Letter to EPA Transmitting Delineation Data Set dated October 29, 2004
- GE e-mail Providing Additional Details Regarding Derivation of Delineation Data Set dated December 3, 2004
- GE Response to EPA October 28, 2004 PCB Chromatogram Comments dated December 22, 2004

Data Validation Reports (on CD)

Draft for EPA Review

Regulatory Correspondence

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Draft for EPA Review

EPA Comments on Data Validation Reports for SDGs 121001 and 121901 dated July 1, 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

July 1, 2004

Mr. Lewis Streeter
General Electric Company
320 Great Oaks Boulevard
Suite 323
Albany, NY 12203-5965

Re: July 16, 2004 Validation letter
SDG# 121001 and 121901

Dear Mr Streeter:

EPA received your June 16, 2004 letter and the enclosed validation packages for the SDG's # 121001 and 121901. EPA has reviewed these packages and has the following comments:

Validation component:

1. Each of the QC criteria that are checked during the validation must have the criteria stated that was used to determine whether the criteria was met. In most cases this was performed except for Surrogate , matrix spikes, and LFBs. Please state the criteria used.

2. the text indicates that the Form 1 are corrected. Please describe what has been corrected on the form one as Form 1 was corrected and initialed properly.

3. Table 1, Qualifier summary table: Please indicate with an "A" in the qualifier column that the sample data is acceptable. "A" is used by Region 1 in this table only to indicate acceptability of all QC criteria.

Comments on the validation information not controlled by the validator.

1. SDG #121901 indicates that there were no field duplicates associated with this SDG. Please clarify why no field duplicate information was not generated. The QAPP states that for every 20 samples a field duplicate will be collected and analyzed. Please clarify how overall precision criteria will be met for this SDG.

2. SDG# 121001 validation indicates That there were no MS/MSD's or field duplicates associated with this SDG. Please clarify how overall precision and overall accuracy will be determined for this SDG.

General comment regarding the data:

Most of the detections in these two SDGs indicate the Aroclor 1248 was found in the sample soils. One sample indicated Aroclor 1242 was found in the soil but the validator change the identification to Aroclor 1248. It appears that the original Aroclor 1242 that was released at the site has weathered and the lighter chlorinated portion has degraded and migrated into the water column. EPA requests to have a copy of all the chromatograms to evaluate and also the standard calibration chromatograms for these data sets.

At the July 1st field meeting, GE/BBL indicated that MS/MSD and field dups were taken and that BBL was coordinating a table to determine the answers to the comments above. Will these packages therefore be revalidated once the QA/QC parameters are found?

GE requested a conference call regarding the issue of the field QC parameters and we will set that up. In the meantime, GE shall develop the proposed delineation set for validation. EPA does not believe that validation of the data needs to wait until all data is collected and therefore requests that GE initiate the validation procedures.

I will contact you to set a date to talk about the validation issues.

Sincerely,

Cheryl L. Sprague
Remedial Project Manager
Office of Site Remediation and Restoration

cc: Andy Beliveau
Scott Acone
Tom Andrews
Corey Averill
Tom Roy

Draft for EPA Review

GE e-mail Requesting Clarification of Delineation Sample Definition dated July 23, 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

From: "Streeter, Lewis S. (Corporate)" <Lewis.Streeter@corporate.ge.com>
To: "Cheryl Sprague (E-mail)" <sprague.cheryl@epa.gov>
Date: Fri, Jul 23, 2004 3:36 PM
Subject: Delineation samples

Hi Cheryl,

I want to provide you some additional background on my recent voice messages regarding delineation samples. While I realize we discussed this topic last Monday, after I had further discussions with BBL, it has become necessary to revisit the issue. The basic issue is EPA's new definition of a delineation sample. The original definition is in Attachment A of the November 2003 QAPP (approved by the EPA in an October 24, 2003 letter). Page 6 of 16 states.... "soil samples with compounds or constituents that exceed EPA's soil clean-up levels, and will therefore be excavated and treated or excavated and disposed, will not be subject to data validation." During our call on July 19, this definition was changed by the EPA. If the definition of a delineation sample is indeed changing from that contained in the approved QAPP, the new definition should be supported on a technical basis and documented in writing.

Also, please remember that before we can finalize and seek EPA approval of the data set that will undergo higher levels of validation, we need to understand and agree on the definition of a delineation sample. To bring this topic to a quick resolution, I recommend that we conduct a follow up call. Please respond with several dates that you and Andy are available so we can revisit this topic and agree on a definition. Thank you for your time.

Lew

Lewis S. Streeter
Remedial Project Manager
General Electric Company
Corporate Environmental Programs
320 Great Oaks Blvd., Suite 323
Albany, New York 12203
% (518) 862-2712, Dial Comm: *232-2712
* Fax: (518) 862-2702, Fax Dial Comm: *232-2702
* email: <mailto:Lewis.Streeter@corporate.ge.com>

CC: "Harrington, Bonnie (Corporate)" <Bonnie.Harrington@corporate.ge.com>, "Corey Averill (E-mail)" <CRA@bbl-inc.com>

Draft for EPA Review

EPA Letter Providing Clarification of Delineation Sample Definition dated August 19, 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
1 CONGRESS STREET, SUITE 1100
BOSTON, MASSACHUSETTS 02114-2023

August 19, 2004

Mr. Lewis Streeter
General Electric Company
320 Great Oaks Office Park
Suite 323
Albany, NY 12203

Re: PDI Validation and Delineation Data

Dear Mr. Streeter;

This letter is in response to a telephone conversation held between GE/BBL and the U.S. EPA on July 19, 2004 and an email to the EPA on July 23, 2004 regarding QA/QC of the Pre-Design Data and validation issues.

The reason for the phone conversation on July 19th was to discuss the sample data validation packages that GE submitted to the EPA for review, on June 16, 2004, and which EPA commented on in a July 1, 2004 letter. In its letter, EPA noted that the collection of the PDI data and subsequent lab analysis did not follow the QAPP procedures for the collection and analysis of field duplicates and MS/MSD samples.

The QAPP states that all field samples assigned to a single SDG shall be received by the laboratory over a maximum of 7 calendar days, and must be processed through the lab as a group. Every SDG was required to include a minimum of one site specific matrix spike/matrix spike duplicate pair (one MS/MSD every 20 samples or once a week, whichever comes first) which would be received by the lab at the start of the SDG assignment. EPA understood from the July 19th conversation with GE, that the collection of field duplicates and MS/MSDs were taken to reflect more a percentage of the total number of samples collected, rather than as QA/QC per SDG as required by the QAPP.

In July, EPA requested a table coordinating the QA/QC data with the field data and a proposal as to how GE was going to coordinate the use of the QC data taken with the evaluations that are necessary to perform data validation correctly and in accordance with the approved QAPP. EPA has not received this information. EPA is concerned about the collection and analysis of the field duplicates. Tier I validation requires comparison of field duplicates. Since all data will receive a minimum Tier I validation, EPA is concerned that the entire PDI collection effort may not be adequately validated.

Field duplicates and MS/MSD samples, per the approved QAPP, were to be used to determine comparability of the PDI data with other data sets and data precision assessment procedures, and to insure data precision and data accuracy.

The two SDG's submitted to the EPA also included the selection of data points to be validated, all of which were data below cleanup levels, regardless of location at the Site. EPA had requested to review these initial data validation package following our 2003 comments on the QAPP, whereby EPA voiced concern as to how GE was going to pull out individual analysis from SDG's for Tier II validation. The sample SDG's therefore failed to set forth the process GE would use to select samples for Tier II validation.

EPA's rejection of the sample SDG's led to a broader discussion to the issue of Tier II validation and the determination of the selection of 25% of the delineation data and the definition of a delineation sample.

In an email sent on July 23, 2004, you indicated that GE wished to revisit the topic of validation and further stated that you believed the basic issue "is EPA's new definition of a delineation sample". The original definition is in Attachment A of the November 2003 QAPP (approved by the EPA in an October 24, 2003 letter). GE's November 2003 response to comment letter, page 6 of 16, states.... 'soil samples with compounds or constituents that exceed EPA's soil clean-up levels, and will therefore be excavated and treated or excavated and disposed, will not be subject to data validation.'" You further stated that "[d]uring our call on July 19, this definition was changed by the EPA. If the definition of a delineation sample is indeed changing from that contained in the approved QAPP, the new definition should be supported on a technical basis and documented in writing. Also, please remember that before we can finalize and seek EPA approval of the data set that will undergo higher levels of validation, we need to understand and agree on the definition of a delineation sample."

The position language on page 6 of 16 from which you quote above, was not approved by EPA as part of the QAPP but is actually a portion of written responses GE submitted in November 2003, after EPA had approved the QAPP in October 2003. EPA does not consider PRP positions, written as responses to comments as being included in final plans. The language that EPA considered, and ultimately approved for incorporation into the QAPP stated that the Tier II validation would include 25% of delineation samples and all samples for which deviations were cited during Tier I validation. Delineation samples were defined as those samples used to define the boundary between soils with constituent concentrations above (i.e., soils subject to remedial actions) and below the soil cleanup levels established in the ROD.

EPA did not issue a "new" definition for Tier II validation of delineation samples. Rather, EPA has held the same view regarding data validation from the very onset of the review and approval of the workplans. EPA inherently views all data as delineation data for purposes of design. Section 4.3 of the QAPP states that delineation samples are data generated as part of the field

investigations to be used for the design of the remedy for the Site. EPA understood upon final acceptance of the QAPP that Tier II validation would target 25% of the delineation data, defined as the boundary data between soils with concentrations both above and below the cleanup levels. EPA understood that boundary data therefore represented two data points (that above and that below the ROD cleanup level). EPA has agreed that not all data requires Tier II validation, and not all data excavated/treated/or disposed of required validation. What we have expected and presented consistently in our comments, is that if the intent of the data collected is to define a potential limit (i.e., depth and areal extent of contamination) for the purposes of design, then 25% of these data points require Tier II validation.

EPA is confused by GE's comments that they do not wish to validate any sample that would be excavated (or treated or disposed of) as the Site does not contain homogeneous contamination profiles/contours. GE itself has verbally indicated that in instances of high/low contamination profiles along a boring, GE may propose a design which would excavate and set aside the "clean" zones. Given the nature of the disposals that occurred at the Site and the heterogeneity of the PCB contamination, this would necessitate a significantly involved confirmation sampling program during the actual cleanup of the Site (i.e., as required in the SOW to the Order: "[t]o ascertain that those areas which undergo excavation meet the required cleanup level or Performance Standard, the Respondent shall conduct confirmatory soil sampling and analysis within and adjacent to the excavated areas").

For your reference, I have attached the following documentation regarding validation that has taken part since the issuance of the Order in July of 2001:

SOW to the July 2001 Order;

EPA's May 1, 2003 comment letter on the PDI Workplans, including the QAPP;.

GE's response to EPA's May 1, 2003 comment letter;

EPA's comment letter dated July 11, 2003;

EPA's letter dated October 24, 2003;

GE's November, 2003 letter;

EPA does not believe any further discussions are warranted on this topic as our position has remained consistent throughout this process. We present this position below for final clarity:

GE will submit, for Tier II validation, 25% of all data which will be used to delineate the extent of contamination at the Site. This 25% should represent boundary data both above and below the cleanup levels at locations throughout the Site, which will be used to define the vertical, horizontal and spacial extent of the contamination at the Site. These boundary data sets are data

which are expected to be used during design to calculate the volume of soils requiring excavation for remediation at the Site.

Sincerely,

Cheryl L. Sprague

Cheryl L. Sprague
Remedial Project Manager
Office of Site Remediation and Restoration

cc: Tom Roy, Aries
John Beling, EPA
Corey Averill, BBL
Tom Andews, NHDES
Bonnie Harrington, GE
Andy Beliveau, EPA
Scott Acone, US ACE

Draft for EPA Review

GE Response to EPA July 1, 2004 Data Validation Report Comments dated August 27, 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Lewis S. Streeter
Project Manager

General Electric Company
Corporate Environmental Programs
320 Great Oaks Boulevard, Suite 319
Albany, NY 12203-5965
Phone: 518-862-2712; Dial Comm: 8*232-2712
Fax: 518-862-2702; Dial Comm: 8*232-2702
E-mail: Lewis.Streeter@corporate.ge.com

August 27, 2004

Ms. Cheryl Sprague
Remedial Project Manager
U.S. Environmental Protection Agency
1 Congress Street, Suite 1100 (HBO)
Boston, MA 02114

Subject: **Data Validation**
Pre-Design Investigation Data
Fletcher's Paint Works and Storage Facility Superfund Site
CERCLA Docket No. 01-2001-0063

Dear Ms. Sprague:

Attached please find GE's response to the EPA's July 1, 2004, letter which provided comments on the data validation packages for SDG #121001 and SDG #121901. The EPA's comments and GE's proposed responses were also discussed during a July 19, 2004 conference call. The results of the data validation, including the corrective action as discussed in Attachment A, will be included in the pre-design investigation report.

Please review Attachment A and contact me if you have any questions, comments or concerns with our responses or proposed course of action.

Sincerely,

Lewis S. Streeter
Remedial Project Manager

cc: Mike Elder, GE (with attachment)
Corey Averill, Blasland, Bouck & Lee (with attachment)

Resp to epa july04 validation cmnts.doc

ATTACHMENT A

RESPONSE TO EPA'S JULY 1, 2004 DATA VALIDATION MEMORANDUM

Validation component:

EPA Comment: *1. Each of the QC criteria that are checked during the validation must have the criteria stated that was used to determine whether the criteria was met. In most cases this was performed except for Surrogate, matrix spikes, and LFBs. Please state the criteria used.*

GE Response: Acknowledged. The criteria for surrogates, matrix spikes and LFBs will be included in subsequent data validation reports.

EPA Comment: *2. the text indicates that the Form 1 are corrected. Please describe what has been corrected on the form one as Form 1 was corrected and initialed properly.*

GE Response: The text inadvertently referred to corrected Form 1s. The text will be revised such that "corrected" has been replaced with "validated", where appropriate. In addition, any necessary corrections to the Form 1s will be noted and initialed.

EPA Comment: *3. Table 1, Qualifier summary table: Please indicate with an "A" in the qualifier column that the sample data is acceptable. "A" is used by Region 1 in this table only to indicate acceptability of all QC criteria.*

GE Response: Acknowledged.

Comments on the validation information not controlled by the validator:

EPA Comment: *1. SDG #121901 indicates that there were no field duplicates associated with this SDG. Please clarify why no field duplicate information was not generated. The QAPP states that for every 20 samples a field duplicate will be collected and analyzed. Please clarify how overall precision criteria will be met for this SDG.*

GE Response: Based on the manner in which field activities are performed and how the analytical laboratory received and processed samples for analysis, certain SDGs did not contain field duplicate samples. With respect to this specific SDG, although not included in the SDG, a sample duplicate was collected for sample location ESSB-J18(15-17') (ESDUP02 is a duplicate of ESSB-J18 [15-17'] and included in SDG #121902). Therefore overall precision for this specific SDG will be met by evaluating ESDUP02 with the parent sample from ESSB-J18(15-17'). Additionally, future data validation activities will ensure that all sample duplicates will be evaluated with their parent sample thus ensuring overall precision is met.

EPA Comment: *2. SDG# 121001 validation indicates That there were no MS/MSD's or field duplicates associated with this SDG. Please clarify how overall precision and overall accuracy will be determined for this SDG.*

GE Response: As discussed in our July 19, 2004 conference call, GE proposes to address the overall precision and accuracy of this SDG by evaluating MS/MSD samples from a nearby (and, if possible, adjacent) sample location collected within a one week time-frame of the samples in the subject SDG. GE will then utilize the results of that evaluation to ensure the usability of the data in the subject SDG. Specifically, GE proposes to evaluate the precision and overall accuracy of SDG #121001 (samples collected from Mill Street soil borings E07 and E09 between 12/8/03 and 12/9/03) by evaluating the MS/MSD sample for SDG #121002 (MS/MSD – MSSB-E05 [9-11'] collected on 12/11/03).

General comment regarding the data:

EPA Comment: *Most of the detections in these two SDGs indicate the Aroclor 1248 was found in the sample soils. One sample indicated Aroclor 1242 was found in the soil but the validator change the identification to Aroclor 1248. It appears that the original Aroclor 1242 that was released at the site has weathered and the lighter chlorinated portion has degraded and migrated into the water column. EPA requests to have a copy of all the chromatograms to evaluate and also the standard calibration chromatograms for these data sets.*

GE Response: With respect to the sample in question, the incorrect Aroclor was identified, therefore, the validator changed the Aroclor identification. While it is premature to discuss EPA's assumptions regarding weathering, degradation, and migration of PCBs into the water column, the requested chromatograms will be provided under separate cover.

EPA Comment: *At the July 1st field meeting, GE/BBL indicated that MS/MSD and field dups were taken and that BBL was coordinating a table to determine the answers to the comments above. Will these packages therefore be revalidated once the QA/QC parameters are found?*

GE Response: Based on this comment, BBL reviewed the entire data set collected to date and identified a small number of SDGs that were missing MS/MSD samples. Please note that a sufficient quantity of QA/QC samples have been collected (i.e., greater than 5% of the total number of collected samples as specified in the QAPP); however the laboratory was not ensuring that each SDG contained an MS/MSD. Based on EPA's comments and the July 19, 2004 conference call, the laboratory was reminded that each SDG must contain MS/MSD samples in accordance with Section 9.5.3 of the QAPP.

As discussed in GE's response to EPA Comment #2 above, GE proposes to evaluate the overall precision and accuracy of the subject SDGs by evaluating MS/MSD samples from nearby (and, if possible, adjacent) sample locations collected within one week of the samples in the subject SDGs. Additional information regarding this process will be included in the PDI Report.

Draft for EPA Review

EPA Comments on PCB Chromatograms dated October 28, 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
1 CONGRESS STREET, SUITE 1100
BOSTON, MASSACHUSETTS 02114-2023

October 28, 2004

Mr. Lewis Streeter
General Electric Company
320 Great Oaks Office park
Suite 323
Albany, NY 12203

Re: Review of PCB Chromatograms
Pdi Data: Fletcher's Paint Superfund Site

Dear Mr. Streeter;

EPA has reviewed the PCB chromatograms and integration tables associated with SDG 121001 and SDG 121901. Andy Beliveau performed this review and his comments are attached to this letter.

In summary, there appears to be a need for GE to further review PCB chromatograms for the correct identification of a Arochlor in each sample. This seems specifically an issue in those chromatograms which display truncated peaks. Confidence in the correct identification of arochlor may impact decisions derived from the data relative to any future leaching study and compliance of the cleanup.

Please review Andy's letter and respond with proposed corrective actions. Please also let me know if you would like to have a conference call regarding EPA's evaluation of these chromatograms prior to any written response.

EPA has not been informed as to whether or not GE will perform a leaching evaluation for the PCB contaminated soils to potentially identify an alternative subsurface soil cleanup level for the Mill Street area. EPA understood GE's desire to first establish the need/benefit of such a study. With the completion of the pre-design field activities, EPA requests that such a determination proceed and that EPA be notified of such decision so that any protocols related to such a study be reviewed.

Please call me at 617/918-1244 if you have any questions or would like to set up a telephone call regarding the EPA's initial chromatogram review.

Sincerely,

Cheryl L. Sprague

Cheryl L. Sprague
Remedial Project Manager
Office of Site Remediation and Restoration

cc: Andy Beliveau
Scott Acone
Tom Roy
Corey Averill
Susan Scott

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
Office of Site Remediation and Restoration
1 Congress Street, Suite 1100, Boston, MA 02114-2023

MEMORANDUM

DATE: October 13, 2004

SUBJ: **Review of GE Fletcher's Paint PCB Chromatograms and Integration Data**

FROM: A.F.Beliveau,
Environmental Scientist, Technical Assistance Team

TO: Cheryl Sprague
Remedial Project Manager

The chromatograms and integration tables associated with SDG 121001 and SDG 121901 were reviewed to determine if the laboratory had identified the correct Aroclor. Allegedly, the site was contaminated mainly with Aroclor 1242 (and 1254), however the most recent chromatograms identify Aroclor 1248 as found most predominantly at the site. Further checking of the chromatograms appeared to be warranted to determine if 1242 is weathered or if 1248 is a real identification. Aroclor 1242 under anaerobic conditions is known to degrade and to display chromatograms similar to Aroclor 1248. The differences between the chromatograms of Aroclor 1242 and Aroclor 1248 are not immediately evident to the untrained naked eye but with study the subtle differences are very evident. For each of the Aroclor 1242 and 1248 standards used in each SDG and for each column used, the EPA developed peak ratios from major peak area counts used to identify the Aroclor. In most cases the same peaks were used to identify both Aroclor 1242 as well as Aroclor 1248. The peak ratios for both columns for Aroclor 1242 are predominantly greater than >1.0 (1.2 to 1.8) and the same peak ratios for Aroclor 1248 are predominantly 1.0 or below 1.0 (.65 to .98).

There are many chromatograms in these SDGs that display peaks that are truncated because they are off-scale due to elevated concentrations of PCB contamination. Only the peak area counts for those peaks were available for review to determine the Aroclor identification(EPA is assuming that these counts are correct and not modified due to truncation). There are a few cases where the Aroclor identifications are incorrect when the truncated peaks are used. Most identifications are correct. Some of the identifications within a boring change at some strata (>10 feet) from Aroclor

1248 to Aroclor 1242. This is probably due to site rework and filling of certain low areas. There are deep intervals that are at the 1242/1248 borders that appear to be mixtures of both 1242 and 1248. In these areas, the area count ratios do not follow the pure Aroclor peak ratios stated earlier.

One boring with surface soil samples, MSSS-F01 and MSSS-F02, indicate from the GC-ECD chromatograms another later eluting multi-halogenated species that cannot be identified by this method but could be dioxin/furan or polychorinated naphthalene and/ or a brominated flame retardant. These peaks in this sample should be further investigated, analyzed, and identified to rule out the above contaminants prior to any type of remedial action or soil removal.

The following is a compilation of the findings within each boring chromatograms that were reviewed:

MSSB-E07(0-1) Identified as 1248-----Peak ratios indicate 1242 (peaks off scale)
MSSB-E07(1-3) Identified as 1248-----Peak ratios indicate 1242 (peaks off scale)
MSSB-E07(3-5) Identified as 1248-----Peak ratios indicate 1242 (peaks off scale)
MSSB-E07(5-7) Identified as 1242-----Identification is correct
MSSB-E07(7-9) Identified as 1248-----Peak ratios indicate 1242 peaks off scale

MSSB-E09(0-1) Identified as 1248-----Identification is correct
MSSB-E09(1-3) Identified as 1248-----Identification is correct
MSSB-E09(3-5) Identified as 1248-----Identification is correct
MSSB-E09(5-7) Identified as 1248-----Identification is correct
MSSB-E09(7-9) Identified as 1248-----Peak ratios indicate 1242(weathered?)
MSSB-E09(9-11) Identified as 1248-----Identification is correct
MSSB-E09(11-13) No identification but there are minor peaks that are 1248
MSSB-E09(13-15) No Identification but there are minor peaks that are 1248
MSSB-E09(15-17) Identified as 1242-----Identification is correct on both columns
MSSB-E09(17-19) Identified as 1242-----Identification is correct on both columns

MSSS-F01 Identified as 1248-----2nd Column indicates 1242(1st hard to tell
Problem: There are very large late eluting peaks that cause the PCB peaks to be low due to dilution on both columns. What are these peaks?
MSSS-F02 Identified as 1248------Identification is correct (also has other hologenated peaks?)
MSSS-F03 Identified as 1248------Identification is correct (Later peaks?)
MSSS-F04 Identified as 1248------Identification is correct
MSSS-F06 Identified as 1248------Peak ratios indicate 1242(peaks off scale)

ESSB-J18(0-1) Identified as 1248-------Identification is correct
ESSB-J18(1-3) Identified as 1248-------Identification is correct(A mix of 1242 and 1248?)
ESSB-J18(3-5) Identified as 1248-------Identification is correct(A mix of 1242 and 1248?)
ESSB-J18(5-7) Identified as 1248-------Identification is correct(A mix of 1242 and 1248?)

ESSB-J18(7-9) Identified as 1248-------Identification is uncertain(A mix of 1242 or 1248?)
ESSB-J18(11-13) Identified as 1248-------Identification is correct(A mix of 1242 and 1248?)
ESSB-J18(13-15) Identified as 1248-------Identification is correct
ESSB-J18(17-19) Identified as 1248-------Identification is correct
ESSB-J18(19-21) Identified as 1248-------Identification is correct
ESSB-J18(21-23) Identified as 1248-------Identification is correct

Conclusions: There are many identifications that appear to this reviewer to be correct. Those identifications made with chromatographs that are off scale appear to be incorrect. If the PRP Contractor were to determine the exact concentration of PCB from the correct PCB response factor, would the quantitation of each sample remain the same or would the concentrations go up (or down)? This issue needs to be clarified to determine which strata meets the compliance concentration in each boring. In some borings there may be a legitimate change in Aroclor identification with depth,due to historical site rework.

It remains to be seen as to the PCB Aroclor that would be chosen to study in leaching tests. this will depend on all the (average) soil PCB results across the site. The solubility of Aroclor1242 is more than the solubility of Aroclor 1248 in water. Thus the identifications of the Aroclor become very important if only one Aroclor is chosen for study.

Draft for EPA Review

GE Letter to EPA Transmitting Delineation Data Set dated October 29, 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Lewis S. Streeter
Project Manager

General Electric Company
Corporate Environmental Programs
320 Great Oaks Boulevard, Suite 319
Albany, NY 12203-5965
Phone: 518-862-2712; Dial Comm: 8*232-2712
Fax: 518-862-2702; Dial Comm: 8*232-2702
E-mail: Lewis.Streeter@corporate.ge.com

October 29, 2004

Ms. Cheryl Sprague
Remedial Project Manager
U.S. Environmental Protection Agency
1 Congress Street, Suite 1100 (HBO)
Boston, MA 02114

Subject: **Delineation Data Set Subject to Validation**
Pre-Design Investigation Data
Fletcher's Paint Works and Storage Facility Superfund Site
CERCLA Docket No. 01-2001-0063

Dear Ms. Sprague:

Attached please find tabulated results of analytical data that was generated during the soil-sampling task of the pre-design investigation at the referenced site. The purpose of this table is to provide the EPA with the data set that will be subjected to Tier II and Tier III validation levels. Refer to the attached letter from Blasland, Bouck & Lee, Inc., for an explanation of the percentages of this data set that will be subjected to higher levels of validation. This data set is based on upon the definition of a delineation sample as provided in the EPA's August 19, 2004 letter. Based on this definition approximately 300 samples which are above the soil clean up levels, and will therefore be excavated and treated or excavated and disposed, are included in the data set for higher levels of validation. Please keep in mind, that if after review of the final data, as presented in the forthcoming pre-design report, the EPA believes decisions were or will be made using invalid or questionable data, GE will possess the necessary information to perform higher levels of validation on specific samples or entire sample delivery groups. Finally, the entire groundwater data set will be subjected to validation based on the percentages previously approved by the EPA, and therefore no groundwater data is contained in the attached table.

The results of the data validation, including any corrective action taken or recommended as a result of the validation, will be included in the pre-design investigation report.

Please review the attached table and contact me if you have any questions, comments or concerns.

Sincerely,

Lewis S. Streeter
Remedial Project Manager

cc: Mike Elder, GE (without attachment)
Corey Averill, Blasland, Bouck & Lee, Inc. (with attachments)

Delineation data set for validation.doc

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Transmitted Via Overnight Courier

October 27, 2004

Mr. Lewis S. Streeter
Remedial Project Manager
General Electric Company
Corporate Environmental Programs
320 Great Oaks Boulevard, Suite 323
Albany, NY 12203-5965

Re: Proposed Delineation Data Set Potentially Subject to Tier II and Tier III Validation
Fletcher's Paint Works and Storage Facility Superfund Site (OU-1)
Milford, New Hampshire

Dear Mr. Streeter:

In accordance with Section 20 of the November 2003 Quality Assurance Project Plan (QAPP), the attached tables present the samples which comprise the proposed delineation data set potentially subject to Tier II and Tier III validation. As you know, the QAPP specified that all soil samples collected at the Elm and Mill Street Sites will be subject to Tier I validation. Further, 25% of the soil samples which comprise the delineation data set (plus any samples for which deviations were cited during Tier I validation) will be subject to Tier II validation. Finally, 10% of the total number of soil samples subject to Tier II validation (plus any soil samples for which deviations were cited during Tier II validation) will be subject to Tier III validation.

To determine which samples are potentially subject to Tier II and III validation, BBL utilized the definition of delineation samples provided in the QAPP, as modified by EPA's August 19, 2004 letter re: *PDI Validation and Delineation Data*. Specifically, the delineation data set includes those soil samples which are "boundary data between soils with concentrations both above and below the cleanup levels." As noted on the attached tables, shaded soil sample results (column titled Total PCBs) indicate soil samples that contain PCBs in excess of the EPA-specified soil cleanup levels for each Site. Further, on Tables 1 (Elm Street Surface Soils) and 3 (Mill Street Surface Soils), BBL has shaded the sample id (column titled Sample ID) of all samples proposed for inclusion in the delineation data set and potentially subject to Tier II and III validation. Similarly, on Tables 2 (Elm Street Subsurface Soils) and 4 (Mill Street Subsurface Soils), BBL has shaded the depth increment [column titled Depth (ft.)] of all samples proposed for inclusion in the delineation data set and potentially subject to Tier II and III validation.

6723 Towpath Road • P.O. Box 66 • Syracuse, NY 13214-0066
Tel (315) 446-9120 • Fax (315) 449-0017 • www.bbl-inc.com • offices nationwide

Please call me if you have any questions regarding the information presented in this letter.

Sincerely,

Corey R. Averill
Project Manager

Enclosure
V:\GE_Fletcher_Paint\Correspondence\66242196.doc

cc: Lowell McBurney, BBL
Leanne Roulier, BBL
Dennis Capria, BBL

TA

ELM STREET AREA PCB SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Surface Soil Criterion			--	--	--	--	--	--	--	1
ESSB-A02	0 - 1	2/3/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.029 JP	ND(0.041)	0.029 J
ESSB-C02	0 - 1	2/3/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.11 P	0.097	ND(0.038)	0.20
ESSB-C04	0 - 1	2/4/2004	ND(0.46)	ND(0.46)	ND(0.46)	ND(0.46)	2.3	ND(0.46)	ND(0.46)	2.3
ESSB-E02	0 - 1	2/3/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.1	ND(0.19)	ND(0.19)	1.1
ESSB-E04	0 - 1	2/5/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	3.3	ND(0.21)	ND(0.21)	3.3
ESSB-E06	0 - 1	2/6/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	8.3	ND(1.2)	ND(1.2)	8.3
ESSB-G04	0 - 1	2/3/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	21	ND(1.0)	ND(1.0)	21
ESSB-G06	0 - 1	2/9/2004	ND(4.4)	ND(4.4)	ND(4.4)	ND(4.4)	54	ND(4.4)	ND(4.4)	54
ESSB-I04	0 - 1	2/2/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.30 BP	ND(0.038)	ND(0.038)	0.30 B
ESSB-I06	0 - 1	2/10/2004	ND(4.3) [ND(14)]	ND(4.3) [ND(14)]	ND(4.3) [ND(14)]	ND(4.3) [ND(14)]	64 [170]	ND(4.3) [ND(14)]	ND(4.3) [ND(14)]	64 [170]
ESSB-I08	0 - 1	2/11/2004	ND(59)	ND(59)	ND(59)	ND(59)	560	ND(59)	ND(59)	560
ESSB-J06	0 - 1	7/29/2004	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	1.8 P	ND(0.28)	ND(0.28)	1.8
ESSB-J18	0 - 1	12/18/2003	ND(0.70)	ND(0.70)	ND(0.70)	ND(0.70)	7.7	ND(0.70)	ND(0.70)	7.7
ESSB-K06	0 - 1	2/2/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
ESSB-K08	0 - 1	2/11/2004	ND(270)	ND(270)	ND(270)	ND(270)	4500	ND(270)	ND(270)	4500
ESSB-K10	0 - 1	2/11/2004	ND(250)	ND(250)	ND(250)	ND(250)	2900	ND(250)	ND(250)	2900
ESSB-K16	0 - 1	2/9/2004	ND(13)	ND(13)	ND(13)	ND(13)	130	ND(13)	ND(13)	130
ESSB-K18	0 - 1	12/18/2003	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	19	ND(3.6)	ND(3.6)	19
ESSB-L12	0 - 1	2/10/2004	ND(95)	ND(95)	ND(95)	ND(95)	240	110	ND(95)	360
ESSB-L14	0 - 1	2/10/2004	ND(36)	ND(36)	ND(36)	ND(36)	350	ND(36)	ND(36)	350
ESSB-M08	0 - 1	2/3/2004	ND(3.1)	ND(3.1)	ND(3.1)	ND(3.1)	57 P	ND(3.1)	ND(3.1)	57
ESSB-M10	0 - 1	2/5/2004	ND(5.2)	ND(5.2)	ND(5.2)	ND(5.2)	140	ND(5.2)	ND(5.2)	140
ESSB-M12	0 - 1	2/5/2004	ND(110)	ND(110)	ND(110)	ND(110)	1200	ND(110)	ND(110)	1200
ESSB-M14	0 - 1	12/22/2003	ND(380)	ND(380)	ND(380)	ND(380)	890	ND(380)	ND(380)	890
ESSB-M16	0 - 1	2/4/2004	ND(280)	ND(280)	ND(280)	ND(280)	5300	ND(280)	ND(280)	5300
ESSB-M18	0 - 1	2/4/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.40	ND(0.035)	ND(0.035)	0.40
ESSB-O10	0 - 1	1/29/2004	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	83	51	ND(4.0)	130
ESSB-O12	0 - 1	1/29/2004	ND(100)	ND(100)	ND(100)	ND(100)	1800	ND(100)	ND(100)	1800
ESSB-O14	0 - 1	2/2/2004	ND(180)	ND(180)	ND(180)	1900	ND(180)	ND(180)	ND(180)	1900
ESSB-O16	0 - 1	2/4/2004	ND(1.0) [ND(2.5)]	ND(1.0) [ND(2.5)]	ND(1.0) [ND(2.5)]	ND(1.0) [33]	15 [ND(2.5)]	ND(1.0) [ND(2.5)]	ND(1.0) [ND(2.5)]	15 [33]
ESSB-O18	0 - 1	1/28/2004	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	21	34	ND(3.7)	55
ESSB-Q10	0 - 1	1/27/2004	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)	74	ND(5.1)	ND(5.1)	74
ESSB-Q12	0 - 1	1/29/2004	ND(160)	ND(160)	ND(160)	ND(160)	3000	ND(160)	ND(160)	3000
ESSB-Q14	0 - 1	1/22/2004	ND(260)	ND(260)	ND(260)	ND(260)	1800	1300	ND(260)	3100
ESSB-Q16	0 - 1	1/22/2004	ND(0.41)	ND(0.41)	ND(0.41)	ND(0.41)	3.4	5.2	ND(0.41)	8.6
ESSB-Q18	0 - 1	1/28/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	0.56	1.1	ND(0.24)	1.7
ESSB-S11S	0 - 1	4/21/2004	ND(10)	ND(10)	ND(10)	ND(10)	94	ND(10)	ND(10)	94
ESSB-S11SS	0 - 1	4/21/2004	ND(0.17)	ND(0.17)	ND(0.17)	ND(0.17)	0.98	ND(0.17)	ND(0.17)	0.98
ESSB-S11W	0 - 1	4/21/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	3.4	ND(0.20)	ND(0.20)	3.4
ESSB-S12	0 - 1	1/26/2004	ND(3.9) [ND(5.2)]	ND(3.9) [ND(5.2)]	ND(3.9) [ND(5.2)]	ND(3.9) [ND(5.2)]	110 [92]	ND(3.9) [ND(5.2)]	ND(3.9) [ND(5.2)]	110 [92]
ESSB-S14	0 - 1	1/21/2004	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	37	36	ND(3.8)	73
ESSB-S16	0 - 1	1/21/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.14	0.21	ND(0.037)	0.36
ESSB-S18	0 - 1	1/21/2004	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	0.035 J [0.028 J]	0.033 J [0.027 JP]	ND(0.036) [ND(0.036)]	0.068 [0.054]
ESSB-S20	0 - 1	12/30/2003	ND(7.4)	ND(7.4)	ND(7.4)	ND(7.4)	50	ND(7.4)	ND(7.4)	50
ESSB-S22	0 - 1	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.44	0.31	ND(0.035)	0.75
ESSB-T16	0 - 1	12/23/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.20	0.14	ND(0.036)	0.35
ESSS-A01	0 - 1	12/22/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.045 P	ND(0.040)	0.045 P	0.090
ESSS-A03	0 - 1	12/22/2003	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	0.066	ND(0.049)	0.066
ESSS-A04	0 - 1	4/26/2004	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	0.10	0.032 J	ND(0.047)	0.13
ESSS-B02	0 - 1	12/22/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.050	ND(0.043)	0.050
ESSS-B03	0 - 1	12/22/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.074	ND(0.043)	0.074
ESSS-B04	0 - 1	12/22/2003	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	0.26	ND(0.048)	0.26

TABLE 1
ELM STREET AREA PCB SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Surface Soil Criterion			--	--	--	--	--	--	--	1
ESSS-B05	0 - 1	4/26/2004	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.093	0.11	ND(0.050)	0.20
ESSS-C01	0 - 1	1/30/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.13	0.15	ND(0.034)	0.28
ESSS-C03	0 - 1	12/22/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.078	ND(0.037)	0.078
ESSS-C05	0 - 1	4/28/2004	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	0.081	0.068	ND(0.049)	0.15
ESSS-D00	0 - 1	2/11/2004	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.26 P	0.36	0.088	0.71
ESSS-D01	0 - 1	1/30/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.033 J	0.032 J	ND(0.036)	0.065
ESSS-D02	0 - 1	12/22/2003	ND(0.085)	ND(0.085)	ND(0.085)	ND(0.085)	ND(0.085)	0.22	ND(0.085)	0.22
ESSS-D03	0 - 1	12/22/2003	ND(0.078)	ND(0.078)	ND(0.078)	ND(0.078)	ND(0.078)	0.85	ND(0.078)	0.85
ESSS-D05	0 - 1	4/14/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.092 P	0.047	ND(0.034)	0.14
ESSS-D06	0 - 1	4/14/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	1.2	ND(0.24)	ND(0.24)	1.2
ESSS-D07	0 - 1	4/26/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.21	0.16	ND(0.044)	0.37
ESSS-E00	0 - 1	4/15/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.10	ND(0.042)	ND(0.042)	0.10
ESSS-E01	0 - 1	1/30/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.013 J	0.043	ND(0.042)	0.056
ESSS-E02NE	0 - 1	4/27/2004	ND(0.93)	ND(0.93)	ND(0.93)	ND(0.93)	9.3	ND(0.93)	ND(0.93)	9.3
ESSS-E02W	0 - 1	4/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
ESSS-E03	0 - 1	12/22/2003	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	1.9	ND(0.37)	ND(0.37)	1.9
ESSS-E07	0 - 1	4/14/2004	ND(28)	ND(28)	ND(28)	ND(28)	110	ND(28)	ND(28)	110
ESSS-F00	0 - 1	4/27/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.027 J	0.075 P	ND(0.043)	0.10
ESSS-F01	0 - 1	4/27/2004	ND(0.054)	ND(0.054)	ND(0.054)	ND(0.054)	0.23 P	0.24	ND(0.054)	0.48
ESSS-F02	0 - 1	1/30/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.010 J	ND(0.034)	ND(0.034)	0.010 J
ESSS-F04	0 - 1	12/22/2003	ND(3.6) [ND(3.8)]	ND(3.6) [ND(3.8)]	ND(3.6) [ND(3.8)]	ND(3.6) [ND(3.8)]	38 [48]	ND(3.6) [ND(3.8)]	ND(3.6) [ND(3.8)]	38 [48]
ESSS-F05	0 - 1	4/14/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	1.5	ND(0.25)	ND(0.25)	1.5
ESSS-F06	0 - 1	4/14/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.6	ND(0.22)	ND(0.22)	1.6
ESSS-F07	0 - 1	4/26/2004	ND(0.62)	ND(0.62)	ND(0.62)	ND(0.62)	5.2	ND(0.62)	ND(0.62)	5.2
ESSS-G03	0 - 1	1/30/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.025 J	0.010 J	ND(0.035)	0.035
ESSS-G04NW	0 - 1	4/27/2004	ND(230)	ND(230)	ND(230)	ND(230)	480	ND(230)	ND(230)	480
ESSS-G05	0 - 1	12/5/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.59	ND(0.18)	ND(0.18)	0.59
ESSS-G07	0 - 1	4/14/2004	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	6.1	ND(0.54)	ND(0.54)	6.1
ESSS-G08	0 - 1	4/14/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	12	ND(1.0)	ND(1.0)	12
ESSS-G09	0 - 1	4/26/2004	ND(6.5)	ND(6.5)	ND(6.5)	ND(6.5)	64	ND(6.5)	ND(6.5)	64
ESSS-H02	0 - 1	12/2/2003	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82)	2.0	ND(0.82)	ND(0.82)	2.0
ESSS-H02W	0 - 1	4/27/2004	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	0.12 P	ND(0.048)	ND(0.048)	0.12
ESSS-H03	0 - 1	12/2/2003	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	51	ND(4.0)	ND(4.0)	51
ESSS-H03NW	0 - 1	4/27/2004	ND(5.4)	ND(5.4)	ND(5.4)	ND(5.4)	26	ND(5.4)	ND(5.4)	26
ESSS-H03SE	0 - 1	4/27/2004	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	14 P	ND(1.1)	ND(1.1)	14
ESSS-H03SW	0 - 1	4/27/2004	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	0.23	ND(0.048)	ND(0.048)	0.23
ESSS-H05	0 - 1	12/22/2003	ND(4.2)	ND(4.2)	ND(4.2)	ND(4.2)	43	ND(4.2)	ND(4.2)	43
ESSS-H05S	0 - 1	4/27/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	1.7	ND(0.21)	ND(0.21)	1.7
ESSS-H06	0 - 1	12/5/2003	ND(0.14)	ND(0.14)	ND(0.14)	ND(0.14)	0.19	ND(0.14)	ND(0.14)	0.19
ESSS-H07	0 - 1	4/15/2004	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	31	ND(2.0)	ND(2.0)	31
ESSS-H08	0 - 1	4/15/2004	ND(5.6) [ND(25)]	ND(5.6) [ND(25)]	ND(5.6) [ND(25)]	ND(5.6) [ND(25)]	60 [86]	ND(5.6) [ND(25)]	ND(5.6) [ND(25)]	60 [86]
ESSS-H09	0 - 1	4/26/2004	ND(5.8)	ND(5.8)	ND(5.8)	ND(5.8)	70	ND(5.8)	ND(5.8)	70
ESSS-H10	0 - 1	4/26/2004	ND(28)	ND(28)	ND(28)	ND(28)	280	ND(28)	ND(28)	280
ESSS-H17	0 - 1	4/26/2004	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	0.67	ND(0.36)	ND(0.36)	0.67
ESSS-H18	0 - 1	4/15/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.17	0.16	ND(0.041)	0.33
ESSS-H19	0 - 1	4/15/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.038	ND(0.035)	ND(0.035)	0.038
ESSS-I03	0 - 1	12/2/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.073 P	ND(0.038)	ND(0.038)	0.073 P
ESSS-I05	0 - 1	1/30/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.10	0.039	ND(0.035)	0.14
ESSS-I07	0 - 1	12/5/2003	ND(0.068)	ND(0.068)	ND(0.068)	ND(0.068)	0.17	ND(0.068)	ND(0.068)	0.17
ESSS-I09	0 - 1	4/15/2004	ND(12)	ND(12)	ND(12)	ND(12)	350	ND(12)	ND(12)	350
ESSS-I10	0 - 1	4/26/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	16	ND(1.0)	ND(1.0)	16
ESSS-I11	0 - 1	4/15/2004	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	17	ND(1.7)	ND(1.7)	17

TA.

ELM STREET AREA PCB SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Surface Soil Criterion			--	--	--	--	--	--	--	1
ESSS-I15	0 - 1	4/26/2004	ND(120)	ND(120)	ND(120)	ND(120)	750	ND(120)	ND(120)	750
ESSS-I16	0 - 1	4/26/2004	ND(0.60)	ND(0.60)	ND(0.60)	ND(0.60)	6.2	ND(0.60)	ND(0.60)	6.2
ESSS-I17	0 - 1	4/26/2004	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	1.4	ND(0.36)	ND(0.36)	1.4
ESSS-I18	0 - 1	4/26/2004	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	0.56	ND(0.27)	ND(0.27)	0.56
ESSS-I19	0 - 1	4/15/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.14	ND(0.036)	ND(0.036)	0.14
ESSS-J03	0 - 1	12/2/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.032 J	ND(0.039)	ND(0.039)	0.032 J
ESSS-J04	0 - 1	12/2/2003	ND(0.081)	ND(0.081)	ND(0.081)	ND(0.081)	0.10	ND(0.081)	ND(0.081)	0.10
ESSS-J07	0 - 1	12/5/2003	ND(3.5)	ND(3.5)	ND(3.5)	ND(3.5)	27	ND(3.5)	ND(3.5)	27
ESSS-J10	0 - 1	4/15/2004	ND(460)	ND(460)	ND(460)	ND(460)	5800	ND(460)	ND(460)	5800
ESSS-J11	0 - 1	4/15/2004	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	26	ND(5.0)	ND(5.0)	26
ESSS-J12	0 - 1	4/26/2004	ND(71)	ND(71)	ND(71)	ND(71)	710	ND(71)	ND(71)	710
ESSS-J13	0 - 1	4/16/2004	ND(260)	ND(260)	ND(260)	ND(260)	3600	ND(260)	ND(260)	3600
ESSS-J14	0 - 1	4/16/2004	ND(52)	ND(52)	ND(52)	ND(52)	940	ND(52)	ND(52)	940
ESSS-J15	0 - 1	4/15/2004	ND(47)	ND(47)	ND(47)	ND(47)	1500	ND(47)	ND(47)	1500
ESSS-J16	0 - 1	4/15/2004	ND(13)	ND(13)	ND(13)	ND(13)	76	ND(13)	ND(13)	76
ESSS-J17	0 - 1	4/26/2004	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	11 P	ND(1.3)	ND(1.3)	11
ESSS-J19	0 - 1	4/15/2004	ND(0.21) [ND(0.21)]	ND(0.21) [ND(0.21)]	ND(0.21) [ND(0.21)]	ND(0.21) [ND(0.21)]	0.93 [1.0]	ND(0.21) [ND(0.21)]	ND(0.21) [ND(0.21)]	0.93 [1.0]
ESSS-K05	0 - 1	12/2/2003	ND(0.41) [ND(0.40)]	ND(0.41) [ND(0.40)]	ND(0.41) [ND(0.40)]	ND(0.41) [ND(0.40)]	0.72 [0.58]	ND(0.41) [ND(0.40)]	ND(0.41) [ND(0.40)]	0.72 [0.58]
ESSS-K07W	0 - 1	4/27/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	10	ND(1.0)	ND(1.0)	10
ESSS-K08SW	0 - 1	4/27/2004	ND(5.7)	ND(5.7)	ND(5.7)	ND(5.7)	34 P	ND(5.7)	ND(5.7)	34
ESSS-K11	0 - 1	4/15/2004	ND(140)	ND(140)	ND(140)	ND(140)	2300	ND(140)	ND(140)	2300
ESSS-K12	0 - 1	4/15/2004	ND(24)	ND(24)	ND(24)	ND(24)	140	ND(24)	ND(24)	140
ESSS-K13	0 - 1	4/16/2004	ND(110)	ND(110)	ND(110)	ND(110)	670	ND(110)	ND(110)	670
ESSS-K14	0 - 1	4/16/2004	ND(120)	ND(120)	ND(120)	ND(120)	1200	ND(120)	ND(120)	1200
ESSS-K17	0 - 1	4/15/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	2.3	ND(0.25)	ND(0.25)	2.3
ESSS-K19	0 - 1	4/15/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	2.9 P	ND(0.22)	ND(0.22)	2.9
ESSS-L04	0 - 1	12/2/2003	ND(0.080)	ND(0.080)	ND(0.080)	ND(0.080)	0.14 P	ND(0.080)	ND(0.080)	0.14 P
ESSS-L06	0 - 1	12/10/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.048	0.044	ND(0.035)	0.091
ESSS-L13	0 - 1	4/16/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	12	ND(1.0)	ND(1.0)	12
ESSS-L15	0 - 1	1/28/2004	ND(11)	ND(11)	ND(11)	ND(11)	290	ND(11)	ND(11)	290
ESSS-L16	0 - 1	1/28/2004	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	58	34	ND(2.5)	93
ESSS-L17	0 - 1	1/28/2004	ND(2.8)	ND(2.8)	ND(2.8)	ND(2.8)	24	14	ND(2.8)	39
ESSS-L18	0 - 1	1/28/2004	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	16	ND(0.98)	ND(0.98)	16
ESSS-L19	0 - 1	4/15/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	3.2 P	ND(0.20)	ND(0.20)	3.2
ESSS-M05	0 - 1	12/2/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
ESSS-M07	0 - 1	12/10/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.27	ND(0.18)	ND(0.18)	0.27
ESSS-M08W	0 - 1	4/27/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	19 P	ND(1.2)	ND(1.2)	19
ESSS-M17	0 - 1	1/28/2004	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	12	ND(0.40)	ND(0.40)	12
ESSS-M19	0 - 1	4/15/2004	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	0.86	ND(0.28)	ND(0.28)	0.86
ESSS-N06	0 - 1	12/2/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.021 J	ND(0.041)	0.021 J
ESSS-N08	0 - 1	4/27/2004	ND(10)	ND(10)	ND(10)	ND(10)	61	ND(10)	ND(10)	61
ESSS-N09	0 - 1	4/27/2004	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	15	ND(2.0)	ND(2.0)	15
ESSS-N18	0 - 1	1/28/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	1.1	0.75	ND(0.24)	1.9
ESSS-N19	0 - 1	4/27/2004	ND(1.9)	ND(1.9)	ND(1.9)	11	ND(1.9)	ND(1.9)	ND(1.9)	11
ESSS-O07	0 - 1	12/10/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.082	ND(0.036)	0.082
ESSS-O09	0 - 1	4/27/2004	ND(5.2)	ND(5.2)	ND(5.2)	ND(5.2)	79	ND(5.2)	ND(5.2)	79
ESSS-P07	0 - 1	12/10/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.023 J	ND(0.035)	ND(0.035)	0.023 J
ESSS-P08	0 - 1	12/10/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.32	ND(0.045)	0.32
ESSS-P09	0 - 1	4/27/2004	ND(1.2) [ND(1.1)]	ND(1.2) [ND(1.1)]	ND(1.2) [ND(1.1)]	ND(1.2) [ND(1.1)]	8.5 [7.6]	ND(1.2) [ND(1.1)]	ND(1.2) [ND(1.1)]	8.5 [7.6]
ESSS-P17	0 - 1	1/20/2004	ND(38)	ND(38)	ND(38)	ND(38)	120	ND(38)	ND(38)	120
ESSS-P18	0 - 1	1/28/2004	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.96	0.67	ND(0.18)	1.6
ESSS-Q09	0 - 1	12/10/2003	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	7.6	ND(1.4)	ND(1.4)	7.6

TABLE 1
ELM STREET AREA PCB SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Surface Soil Criterion			--	--	--	--	--	--	--	1
ESSS-Q09W	0 - 1	4/27/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	1.2	ND(0.25)	ND(0.25)	1.2
ESSS-Q17	0 - 1	1/20/2004	ND(0.91)	ND(0.91)	ND(0.91)	ND(0.91)	2.1	3.4	ND(0.91)	5.5
ESSS-R08	0 - 1	12/10/2003	ND(0.069)	ND(0.069)	ND(0.069)	0.48 P	ND(0.069)	ND(0.069)	ND(0.069)	0.48
ESSS-R09	0 - 1	12/10/2003	ND(3.4)	ND(3.4)	ND(3.4)	ND(3.4)	34	ND(3.4)	ND(3.4)	34
ESSS-R09S	0 - 1	4/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.019 J	ND(0.034)	ND(0.034)	0.019 J
ESSS-R09W	0 - 1	4/21/2004	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	3.1	ND(0.26)	ND(0.26)	3.1
ESSS-R10	0 - 1	1/20/2004	ND(2.3)	ND(2.3)	ND(2.3)	ND(2.3)	9.8	ND(2.3)	ND(2.3)	9.8
ESSS-R10S	0 - 1	4/21/2004	ND(0.24) [ND(0.39)]	ND(0.24) [ND(0.39)]	ND(0.24) [ND(0.39)]	3.5 [3.1]	ND(0.24) [ND(0.39)]	ND(0.24) [ND(0.39)]	ND(0.24) [ND(0.39)]	3.5 [3.1]
ESSS-R11	0 - 1	1/20/2004	ND(21)	ND(21)	ND(21)	ND(21)	71	ND(21)	ND(21)	71
ESSS-R17	0 - 1	1/20/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.12	0.11	ND(0.034)	0.23
ESSS-R18	0 - 1	1/27/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	0.55	0.50	ND(0.22)	1.0
ESSS-R18E	0 - 1	4/23/2004	ND(0.18) [ND(0.21)]	ND(0.18) [ND(0.21)]	ND(0.18) [ND(0.21)]	ND(0.18) [ND(0.21)]	0.45 [0.85]	0.54 [0.82]	ND(0.18) [ND(0.21)]	0.98 [1.7]
ESSS-R19	0 - 1	1/27/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.032 BJ	ND(0.033)	ND(0.033)	0.032 BJ
ESSS-R19N	0 - 1	4/23/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.27	0.32	ND(0.037)	0.59
ESSS-R20	0 - 1	1/27/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.015 BJ	ND(0.035)	ND(0.035)	0.015 BJ
ESSS-R20N	0 - 1	4/23/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	0.86	1.5	ND(0.24)	2.4
ESSS-R21	0 - 1	1/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.035 B	ND(0.034)	ND(0.034)	0.035 B
ESSS-R21N	0 - 1	4/23/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.17	0.23	ND(0.038)	0.40
ESSS-R22	0 - 1	1/27/2004	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	44	20	ND(2.5)	64
ESSS-R22N	0 - 1	4/23/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.10	0.16	ND(0.038)	0.26
ESSS-S11	0 - 1	1/19/2004	ND(38)	ND(38)	ND(38)	ND(38)	140	ND(38)	ND(38)	140
ESSS-S11WW	0 - 1	4/21/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	0.54	ND(0.20)	ND(0.20)	0.54
ESSS-S12S	0 - 1	4/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.044	0.015 JP	ND(0.034)	0.058
ESSS-S13	0 - 1	1/19/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	21	17	ND(1.2)	38
ESSS-S13S	0 - 1	4/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.093	0.047 P	ND(0.034)	0.14
ESSS-S14S	0 - 1	4/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.036	0.015 JP	ND(0.035)	0.051
ESSS-S17	0 - 1	1/19/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.051	0.030 J	ND(0.034)	0.081
ESSS-T15	0 - 1	1/23/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.17 P	0.17	ND(0.036)	0.34
ESSS-T17	0 - 1	1/23/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.13 P	ND(0.034)	0.061	ND(0.034)	0.19
ESSS-T18	0 - 1	1/23/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.19 P	ND(0.038)	0.12	ND(0.038)	0.31
ESSS-T19	0 - 1	1/23/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.14 P	ND(0.036)	0.10	ND(0.036)	0.25
ESSS-T20	0 - 1	1/23/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.3	0.88	ND(0.19)	2.2
ESSS-T20S	0 - 1	4/21/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.0	0.67	ND(0.22)	1.7
ESSS-T20SS	0 - 1	4/21/2004	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	1.6	0.72	ND(0.18)	2.3
ESSS-T21	0 - 1	4/21/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.012 J	ND(0.036)	ND(0.036)	0.012 J
SS-16NE	0 - 1	4/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.0098 J	ND(0.034)	ND(0.034)	0.0098 J
SS-16NW	0 - 1	4/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.012 J	ND(0.034)	ND(0.034)	0.012 J
SS-16SE	0 - 1	4/27/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
SS-16SW	0 - 1	4/27/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.14	0.18	ND(0.043)	0.32
SS-18E	0 - 1	4/27/2004	ND(4.9)	ND(4.9)	ND(4.9)	ND(4.9)	26	ND(4.9)	ND(4.9)	26
SS-25NE	0 - 1	4/27/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
SS-25NW	0 - 1	4/27/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
SS-25SE	0 - 1	4/27/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.025 J	ND(0.035)	ND(0.035)	0.025 J
SS-25SW	0 - 1	4/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.012 J	ND(0.034)	ND(0.034)	0.012 J

Notes:
1. Shaded sample results indicate samples containing PCBs at concentrations in excess of the Surface Soil Cleanup Level of 1 ppm.
2. Shaded sample IDs represent those samples proposed for inclusion in the delineation data set potentially subject to Tier II and Tier III validation.

TA
ELM STREET AREA PCB SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			- -	- -	- -	- -	- -	- -	- -	100
3-CS-S08-A	1 - 3	8/17/2004	ND(18) [ND(11)]	ND(18) [ND(11)]	ND(18) [ND(11)]	ND(18) [ND(11)]	460 [320]	ND(18) [92]	ND(18) [ND(11)]	460 [410]
	3 - 5	8/17/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.6	ND(0.22)	ND(0.22)	1.6
	5 - 7	8/17/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.060 P	ND(0.034)	ND(0.034)	0.060
	7 - 9	8/17/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	0.57	0.57
	9 - 11	8/17/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
EB-03B	1 - 3	8/17/2004	ND(37) [ND(21)]	ND(37) [ND(21)]	ND(37) [ND(21)]	ND(37) [ND(21)]	390 [410]	ND(37) [ND(21)]	ND(37) [ND(21)]	390 [410]
	3 - 5	8/17/2004	ND(21)	ND(21)	ND(21)	ND(21)	370	ND(21)	ND(21)	370
	5 - 7	8/17/2004	ND(280)	ND(280)	ND(280)	2000	ND(280)	ND(280)	ND(280)	2000
	9 - 11	8/17/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.055	ND(0.033)	ND(0.033)	0.055
	13 - 15	8/17/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.096	ND(0.034)	ND(0.034)	0.096
EB-03BE	1 - 3	8/19/2004	ND(24)	ND(24)	ND(24)	ND(24)	670	ND(24)	ND(24)	670
	3 - 5	8/19/2004	ND(12)	ND(12)	ND(12)	ND(12)	180	ND(12)	ND(12)	180
	5 - 7	8/19/2004	ND(9.7)	ND(9.7)	ND(9.7)	ND(9.7)	140	ND(9.7)	ND(9.7)	140
EB-03BN	1 - 3	8/23/2004	ND(4.5)	ND(4.5)	ND(4.5)	ND(4.5)	34	ND(4.5)	ND(4.5)	34
	3 - 5	8/23/2004	ND(4.1)	ND(4.1)	ND(4.1)	ND(4.1)	6.8	ND(4.1)	ND(4.1)	6.8
	5 - 7	8/23/2004	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	1.9	ND(0.38)	ND(0.38)	1.9
	9 - 11	8/23/2004	ND(0.032)	ND(0.032)	ND(0.032)	ND(0.032)	0.094	ND(0.032)	ND(0.032)	0.094 B
	11 - 13	8/23/2004	ND(14)	ND(14)	ND(14)	ND(14)	300	ND(14)	ND(14)	300
	13 - 15	8/23/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.0 P	ND(0.22)	ND(0.22)	1.0
	15 - 17	8/23/2004	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.54 P	ND(0.18)	ND(0.18)	0.54
EB-03BS	1 - 3	8/19/2004	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	9.0	ND(0.74)	ND(0.74)	9.0
	3 - 5	8/19/2004	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	21	ND(1.3)	ND(1.3)	21
	5 - 7	8/19/2004	ND(20)	ND(20)	ND(20)	ND(20)	890	ND(20)	ND(20)	890
EB-15	2.5 - 4.5	8/11/2004	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	0.15 [0.16]	0.033 J [0.034 J]	ND(0.035) [ND(0.035)]	0.19 [0.20]
	4.5 - 6.5	8/11/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.24	ND(0.035)	0.047	ND(0.035)	0.29
	6.5 - 8.5	8/11/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.15 P	ND(0.039)	ND(0.039)	0.15
	8.5 - 10.5	8/11/2004	ND(0.25)	ND(0.25)	ND(0.25)	0.72	ND(0.25)	ND(0.25)	ND(0.25)	0.72
	10.5 - 12	8/11/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.067 P	ND(0.038)	ND(0.038)	0.067
	14 - 14.5	8/11/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.22	0.059	ND(0.034)	0.28
	14.5 - 16.5	8/11/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.037 J	ND(0.040)	ND(0.040)	ND(0.040)	0.037 J
	16.5 - 18.5	8/11/2004	ND(0.044)	ND(0.044)	ND(0.044)	0.056 P	ND(0.044)	ND(0.044)	ND(0.044)	0.056
	18.5 - 20.5	8/11/2004	ND(0.057)	ND(0.057)	ND(0.057)	0.027 JP	ND(0.057)	ND(0.057)	ND(0.057)	0.027 J
	20.5 - 22.5	8/11/2004	ND(0.044)	ND(0.044)	ND(0.044)	0.036 J	ND(0.044)	ND(0.044)	ND(0.044)	0.036 J
EB-15SE	1 - 2.5	8/10/2004	ND(48)	ND(48)	ND(48)	ND(48)	390	150	ND(48)	540
	2.5 - 4.5	8/10/2004	ND(54)	ND(54)	ND(54)	ND(54)	500	380	ND(54)	880
EB-15SW	1 - 3	8/10/2004	ND(200)	ND(200)	ND(200)	ND(200)	1100	320	ND(200)	1500
	3 - 5	8/10/2004	ND(210)	ND(210)	ND(210)	ND(210)	710	270	ND(210)	980
	5 - 7	8/10/2004	ND(130)	ND(130)	ND(130)	ND(130)	660	560	ND(130)	1200
	7 - 9	8/10/2004	ND(10)	ND(10)	ND(10)	ND(10)	42	27	ND(10)	69
	9 - 11	8/10/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.36	0.33	ND(0.037)	0.69
	11 - 13	8/10/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.065	0.047	ND(0.037)	0.11
	13 - 15	8/10/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.12	0.065	ND(0.044)	0.19
	15 - 17	8/10/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.011 J	ND(0.041)	ND(0.041)	0.011 J
	17 - 19	8/10/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.034 J	0.019 JP	ND(0.038)	0.053
	19 - 21	8/10/2004	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.036 J	ND(0.045)	ND(0.045)	0.036 J
	21 - 23	8/10/2004	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	0.057	0.035 J	ND(0.049)	0.091
EB-20A	1 - 3	8/17/2004	ND(21)	ND(21)	ND(21)	ND(21)	250	ND(21)	ND(21)	250
	3 - 5	8/17/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	12	5.4	ND(1.2)	17
	5 - 7	8/17/2004	ND(12)	ND(12)	ND(12)	ND(12)	120	84	ND(12)	210
	7 - 9	8/17/2004	ND(12)	ND(12)	ND(12)	ND(12)	69	34	ND(12)	100
	9 - 11	8/17/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.053	ND(0.037)	ND(0.037)	0.053
ESSB-A02	1 - 3	2/3/2004	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.18	ND(0.046)	ND(0.046)	0.18
	3 - 5	2/3/2004	ND(0.045) [ND(0.044)]	ND(0.045) [ND(0.044)]	ND(0.045) [ND(0.044)]	0.022 J [ND(0.044)]	ND(0.045) [0.018 J]	ND(0.045) [ND(0.044)]	ND(0.045) [ND(0.044)]	0.022 J [0.018 J]
	5 - 7	2/3/2004	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)

TABLE 2
ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-C02	1 - 3	2/3/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	3 - 5	2/3/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
ESSB-C04	1 - 3	2/4/2004	ND(0.42) [ND(0.33)]	ND(0.42) [ND(0.33)]	ND(0.42) [ND(0.33)]	ND(0.42) [ND(0.33)]	4.4 [3.2]	ND(0.42) [ND(0.33)]	ND(0.42) [ND(0.33)]	4.4 [3.2]
	3 - 5	2/4/2004	ND(0.31)	ND(0.31)	ND(0.31)	2.8	ND(0.31)	ND(0.31)	ND(0.31)	2.8
	5 - 7	2/4/2004	ND(0.30)	ND(0.30)	ND(0.30)	3.1	ND(0.30)	ND(0.30)	ND(0.30)	3.1
ESSB-E02	1 - 3	2/3/2004	ND(0.032)	ND(0.032)	ND(0.032)	ND(0.032)	0.011 J	ND(0.032)	ND(0.032)	0.011 J
	3 - 5	2/3/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.084	ND(0.033)	ND(0.033)	0.084
	5 - 7	2/3/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.10	ND(0.035)	ND(0.035)	0.10
	7 - 9	2/3/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.021 J	ND(0.044)	ND(0.044)	0.021 J
	9 - 11	2/3/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	11 - 13	2/3/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
ESSB-E04	1 - 3	2/5/2004	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	0.36 [0.44]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	0.36 [0.44]
	3 - 5	2/5/2004	ND(2.3)	ND(2.3)	ND(2.3)	ND(2.3)	6.0	ND(2.3)	ND(2.3)	6.0
	5 - 7	2/5/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	2.1	ND(0.20)	ND(0.20)	2.1
	7 - 9	2/5/2004	ND(11)	ND(11)	ND(11)	ND(11)	26	ND(11)	ND(11)	26
	9 - 11	2/5/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.29	ND(0.042)	ND(0.042)	0.29
ESSB-E06	1 - 3	2/6/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	12	ND(1.2)	ND(1.2)	12
	3 - 5	2/6/2004	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	36	ND(1.9)	ND(1.9)	36
	5 - 7	2/6/2004	ND(0.44)	ND(0.44)	ND(0.44)	ND(0.44)	6.1	ND(0.44)	ND(0.44)	6.1
	7 - 9	2/6/2004	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	11	ND(1.4)	ND(1.4)	11
	9 - 11	2/6/2004	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	47	ND(3.9)	ND(3.9)	47
	11 - 13	2/6/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.046	ND(0.039)	ND(0.039)	0.046
ESSB-G04	1 - 3	2/3/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.22	ND(0.034)	ND(0.034)	ND(0.034)
	3 - 5	2/3/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.030 J	0.025 J	ND(0.034)	0.055
	5 - 7	2/3/2004	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]
	7 - 9	2/3/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.024 J	ND(0.035)	ND(0.035)	0.024 J
	9 - 11	2/3/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	11 - 13	2/3/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	13 - 15	2/3/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
ESSB-G06	1 - 3	2/9/2004	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	58	ND(4.0)	ND(4.0)	58
	3 - 5	2/9/2004	ND(4.8)	ND(4.8)	ND(4.8)	52	ND(4.8)	ND(4.8)	ND(4.8)	52
	5 - 7	2/9/2004	ND(4.3)	ND(4.3)	ND(4.3)	34	ND(4.3)	ND(4.3)	ND(4.3)	34
	7 - 9	2/9/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	17	ND(1.0)	ND(1.0)	17
	9 - 11	2/9/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.58	ND(0.036)	ND(0.036)	0.58
	11 - 13	2/9/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.054	ND(0.037)	ND(0.037)	0.054
ESSB-H03	1 - 2	4/27/2004	ND(4.9)	ND(4.9)	ND(4.9)	ND(4.9)	46 P	ND(4.9)	ND(4.9)	46
	2 - 3	4/27/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.30 P	ND(0.035)	ND(0.035)	0.30
ESSB-H06	1 - 3	7/29/2004	ND(43)	ND(43)	ND(43)	220	ND(43)	ND(43)	ND(43)	220
	3 - 5	7/29/2004	ND(0.42) [ND(0.26)]	ND(0.42) [ND(0.26)]	ND(0.42) [ND(0.26)]	6.8 [5.4]	ND(0.42) [ND(0.26)]	ND(0.42) [ND(0.26)]	ND(0.42) [ND(0.26)]	6.8 [5.4]
	5 - 7	7/29/2004	ND(14)	ND(14)	ND(14)	85	ND(14)	ND(14)	ND(14)	85
	7 - 9	7/29/2004	ND(0.61)	ND(0.61)	ND(0.61)	8.8	ND(0.61)	ND(0.61)	ND(0.61)	8.8
	9 - 11	7/29/2004	ND(0.24)	ND(0.24)	ND(0.24)	2.7	ND(0.24)	ND(0.24)	ND(0.24)	2.7
ESSB-I04	1 - 3	2/2/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	0.98	0.64	ND(0.24)	1.6
	3 - 5	2/2/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.068 B	ND(0.035)	ND(0.035)	0.068 B
	5 - 7	2/2/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.017 BJP	ND(0.035)	ND(0.035)	0.017 BJ
	7 - 9	2/2/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.38 B	ND(0.034)	ND(0.034)	0.38 B
	9 - 11	2/2/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.044 B	ND(0.034)	ND(0.034)	0.044 B
	11 - 13	2/2/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.035 BJ	ND(0.042)	ND(0.042)	0.035 BJ
	13 - 15	2/2/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.037 BJ	ND(0.044)	ND(0.044)	0.037 BJ
ESSB-I05	1 - 3	8/13/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	3 - 5	8/13/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	5 - 7	8/13/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	7 - 9	8/13/2004	ND(0.038) [ND(0.036)]	ND(0.038) [ND(0.036)]	ND(0.038) [ND(0.036)]	ND(0.038) [ND(0.036)]	0.016 J [0.013 J]	ND(0.038) [0.012 J]	ND(0.038) [ND(0.036)]	0.016 J [0.025 J]
	9 - 11	8/13/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)

TA

ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-I06	1 - 3	2/10/2004	ND(130)	ND(130)	ND(130)	ND(130)	1300	ND(130)	ND(130)	1300
	3 - 5	2/10/2004	ND(0.93)	ND(0.93)	ND(0.93)	ND(0.93)	17	ND(0.93)	ND(0.93)	17
	5 - 7	2/10/2004	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	21	ND(1.1)	ND(1.1)	21
	7 - 9	2/10/2004	ND(24)	ND(24)	ND(24)	ND(24)	310	ND(24)	ND(24)	310
	9 - 11	2/10/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.18 P	ND(0.036)	ND(0.036)	0.18
	11 - 13	2/10/2004	ND(0.17)	ND(0.17)	ND(0.17)	ND(0.17)	1.4	ND(0.17)	ND(0.17)	1.4
	13 - 15	2/10/2004	*ND(0.038)*	*ND(0.038)*	*ND(0.038)*	*ND(0.038)*	*0.15 P*	*ND(0.038)*	*ND(0.038)*	*0.15*
ESSB-I07	1 - 3	8/13/2004	ND(27)	ND(27)	ND(27)	ND(27)	91	ND(27)	ND(27)	91
	3 - 5	8/13/2004	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	16	ND(1.1)	ND(1.1)	16
	5 - 7	8/13/2004	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	6.6	ND(0.38)	ND(0.38)	6.6
	7 - 9	8/13/2004	ND(12)	ND(12)	ND(12)	ND(12)	88	ND(12)	ND(12)	88
	9 - 11	8/13/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	5.9	ND(0.25)	ND(0.25)	5.9
	11 - 13	8/13/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.063	ND(0.034)	ND(0.034)	0.063
ESSB-I08	1 - 3	2/11/2004	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	58	ND(2.5)	ND(2.5)	58
	3 - 5	2/11/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	0.89	ND(0.19)	ND(0.19)	0.89
	5 - 7	2/11/2004	ND(0.25) [ND(0.22)]	ND(0.25) [ND(0.22)]	ND(0.25) [ND(0.22)]	ND(0.25) [ND(0.22)]	3.4 [3.1]	ND(0.25) [ND(0.22)]	ND(0.25) [ND(0.22)]	3.4 [3.1]
	7 - 9	2/11/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.12	ND(0.035)	ND(0.035)	0.12
	9 - 11	2/11/2004	ND(5.4)	ND(5.4)	ND(5.4)	ND(5.4)	120	ND(5.4)	ND(5.4)	120
	11 - 13	2/11/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	15	ND(1.2)	ND(1.2)	15
	13 - 15	2/11/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.071	ND(0.038)	ND(0.038)	0.071
ESSB-I08NW	7 - 9	8/19/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	11	ND(1.2)	ND(1.2)	11
	9 - 11	8/19/2004	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	17	ND(1.9)	ND(1.9)	17
	11 - 13	8/19/2004	ND(0.92)	ND(0.92)	ND(0.92)	ND(0.92)	9.9	ND(0.92)	ND(0.92)	9.9
ESSB-J06	1 - 3	7/29/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	1.2 P	ND(0.23)	ND(0.23)	1.2
	3 - 5	7/29/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	2.0 P	ND(0.23)	ND(0.23)	2.0
	5 - 7	7/29/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.033 JP	ND(0.038)	ND(0.038)	0.033 J
	7 - 9	7/29/2004	*ND(0.036)*	*ND(0.036)*	*ND(0.036)*	*ND(0.036)*	*0.014 JP*	*ND(0.036)*	*ND(0.036)*	*0.014 J*
	9 - 11	7/29/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
ESSB-J07	1 - 3	8/13/2004	ND(4.3)	ND(4.3)	ND(4.3)	ND(4.3)	46	ND(4.3)	ND(4.3)	46
	3 - 5	8/13/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	0.36 P	ND(0.22)	ND(0.22)	0.36
	5 - 7	8/13/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.13	ND(0.034)	ND(0.034)	0.13
	9 - 11	8/13/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.29 P	0.14	ND(0.038)	0.43
	11 - 13	8/13/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.019 J	0.0092 J	ND(0.034)	0.028 J
	13 - 15	8/13/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.045	ND(0.034)	ND(0.034)	0.045
ESSB-J18	1 - 3	12/18/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	8.6	ND(1.9)	ND(1.9)	8.6
	3 - 5	12/18/2003	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	1.6	ND(0.23)	ND(0.23)	1.6
	5 - 7	12/18/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.67	ND(0.18)	ND(0.18)	0.67
	7 - 9	12/18/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	1.1	ND(0.18)	ND(0.18)	1.1
	11 - 13	12/18/2003	ND(6.8)	ND(6.8)	ND(6.8)	ND(6.8)	73	ND(6.8)	ND(6.8)	73
	13 - 15	*12/18/2003*	*ND(0.068)*	*ND(0.068)*	*ND(0.068)*	*ND(0.068)*	*0.24*	*ND(0.068)*	*ND(0.068)*	*0.24*
	15 - 17	12/18/2003	ND(6.9) [ND(3.4)]	ND(6.9) [ND(3.4)]	ND(6.9) [ND(3.4)]	ND(6.9) [ND(3.4)]	46 [30 B]	ND(6.9) [ND(3.4)]	ND(6.9) [ND(3.4)]	46 [30 B]
	17 - 19	12/18/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.33	ND(0.039)	ND(0.039)	0.33
	19 - 21	12/18/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.074	ND(0.037)	ND(0.037)	0.074
	21 - 23	12/18/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.069	ND(0.037)	ND(0.037)	0.069
ESSB-K06	1 - 3	2/2/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.042 B	ND(0.034)	ND(0.034)	0.042 B
	3 - 5	2/2/2004	ND(0.035) [ND(0.034)]	ND(0.035) [ND(0.034)]	ND(0.035) [ND(0.034)]	ND(0.035) [ND(0.034)]	0.026 BJ [0.031 BJ]	ND(0.035) [ND(0.034)]	ND(0.035) [ND(0.034)]	0.026 BJ [0.031 BJ]
	5 - 7	2/2/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.013 BJP	ND(0.035)	ND(0.035)	0.013 BJ
	7 - 9	2/2/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.0094 BJ	ND(0.035)	ND(0.035)	0.0094 BJ
	9 - 11	2/2/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	11 - 13	2/2/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.056 B	0.044 P	ND(0.035)	0.10 B
	13 - 15	2/2/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	15 - 17	2/2/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.016 BJ	ND(0.043)	ND(0.043)	0.016 BJ

TABLE 2
ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-K07	1 - 3	8/13/2004	ND(450)	ND(450)	ND(450)	ND(450)	2100	ND(450)	ND(450)	2100
	3 - 5	8/13/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	2.8	ND(0.23)	ND(0.23)	2.8
ESSB-K08	1 - 3	2/11/2004	ND(130)	ND(130)	ND(130)	ND(130)	1000	ND(130)	ND(130)	1000
	3 - 5	2/11/2004	ND(4.9) [ND(2.0)]	ND(4.9) [ND(2.0)]	ND(4.9) [ND(2.0)]	ND(4.9) [ND(2.0)]	47 [30]	20 [18]	ND(4.9) [ND(2.0)]	68 [48]
	5 - 7	2/11/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	1.8	0.58	ND(0.21)	2.3
	7 - 9	2/11/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	0.99	0.42	ND(0.25)	1.4
	9 - 11	2/11/2004	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	0.76	ND(0.27)	ND(0.27)	0.76
	11 - 13	2/11/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.15	0.091 P	ND(0.044)	0.24
	13 - 15	2/11/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.034 J	0.0099 JP	ND(0.036)	0.044
	15 - 17	2/11/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)
	17 - 19	2/11/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.14	ND(0.038)	ND(0.038)	0.14
ESSB-K09	1 - 3	8/4/2004	ND(540)	ND(540)	ND(540)	4300	ND(540)	ND(540)	ND(540)	4300
	3 - 5	8/4/2004	ND(10)	ND(10)	ND(10)	ND(10)	41	27	ND(10)	68
ESSB-K10	1 - 3	2/11/2004	ND(4.4)	ND(4.4)	ND(4.4)	ND(4.4)	50	ND(4.4)	ND(4.4)	50
	3 - 5	2/11/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	7.4	ND(1.0)	ND(1.0)	7.4
	5 - 7	2/11/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.064	ND(0.037)	ND(0.037)	0.064
	7 - 9	2/11/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	4.0 P	0.62	ND(0.24)	4.6
	9 - 11	2/11/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.037 P	ND(0.036)	ND(0.036)	0.037
	11 - 13	2/11/2004	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	2.1	ND(0.26)	ND(0.26)	2.1
	13 - 15	2/11/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.051	ND(0.038)	ND(0.038)	0.051
	15 - 17	2/11/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.16	0.094 P	ND(0.036)	0.25
	17 - 19	2/11/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.036 J	ND(0.041)	ND(0.041)	0.036 J
ESSB-K16	1 - 3	2/9/2004	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	62	ND(5.0)	ND(5.0)	62
	3 - 5	2/9/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	2.4	ND(0.20)	ND(0.20)	2.4
	5 - 7	2/9/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	4.3	ND(0.20)	ND(0.20)	4.3
	7 - 9	2/9/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.7	ND(0.22)	ND(0.22)	1.7
	9 - 11	2/9/2004	ND(22)	ND(22)	ND(22)	ND(22)	190	ND(22)	ND(22)	190
	11 - 13	2/9/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.7	0.98	ND(0.22)	2.7
	13 - 15	2/9/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.14 P	ND(0.036)	ND(0.036)	0.14
	15 - 17	2/9/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.64	ND(0.037)	ND(0.037)	0.64
	17 - 19	2/9/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.048 P	ND(0.039)	ND(0.039)	0.048
	19 - 21	2/9/2004	ND(1.4)	ND(1.4)	ND(1.4)	22	ND(1.4)	ND(1.4)	1.7	24
	21 - 23	2/9/2004	ND(14)	ND(14)	ND(14)	140	ND(14)	ND(14)	6.8 J	140
ESSB-K18	1 - 2	12/18/2003	ND(0.78)	ND(0.78)	ND(0.78)	ND(0.78)	6.0	ND(0.78)	ND(0.78)	6.0
	2 - 4	12/18/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	6.1	ND(1.9)	ND(1.9)	6.1
	4 - 6	12/18/2003	ND(40)	ND(40)	ND(40)	ND(40)	490	ND(40)	ND(40)	490
	6 - 8	12/18/2003	ND(8.1)	ND(8.1)	ND(8.1)	ND(8.1)	110	ND(8.1)	ND(8.1)	110
	8 - 10	12/18/2003	ND(3.4)	ND(3.4)	ND(3.4)	ND(3.4)	28	ND(3.4)	ND(3.4)	28
	10 - 12	12/18/2003	ND(6.8)	ND(6.8)	ND(6.8)	ND(6.8)	150	ND(6.8)	ND(6.8)	150
	12 - 14	12/18/2003	ND(7.0)	ND(7.0)	ND(7.0)	ND(7.0)	38	31	ND(7.0)	70
	14 - 16	12/18/2003	ND(7.4)	ND(7.4)	ND(7.4)	ND(7.4)	65	29	ND(7.4)	94
ESSB-K18E	1 - 3	8/24/2004	ND(5.0) [ND(9.5)]	ND(5.0) [ND(9.5)]	ND(5.0) [ND(9.5)]	ND(5.0) [ND(9.5)]	75 [120]	ND(5.0) [ND(9.5)]	ND(5.0) [ND(9.5)]	75 [120]
	3 - 5	8/24/2004	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	22	6.8	ND(2.1)	29
	5 - 7	8/24/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.6	ND(0.20)	ND(0.20)	1.6
	7 - 9	8/24/2004	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	1.5	ND(0.18)	ND(0.18)	1.5
	9 - 11	8/24/2004	ND(0.033)	ND(0.033)	ND(0.033)	0.23	ND(0.033)	ND(0.033)	ND(0.033)	0.23
	11 - 13	8/24/2004	ND(0.033)	ND(0.033)	ND(0.033)	0.10	ND(0.033)	ND(0.033)	ND(0.033)	0.10
	13 - 15	8/24/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	15 - 17	8/24/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	2.7	ND(0.21)	ND(0.21)	2.7
	17 - 19	8/24/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	19 - 21	8/24/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	21 - 23	8/24/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.018 JP	ND(0.034)	ND(0.034)	0.018 J
	23 - 24	8/24/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.030 J	ND(0.038)	ND(0.038)	0.030 J

TA. 2
ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-K18N	1 - 3	8/20/2004	ND(4.2) [ND(12)]	ND(4.2) [ND(12)]	ND(4.2) [ND(12)]	ND(4.2) [ND(12)]	45 [73]	ND(4.2) [ND(12)]	ND(4.2) [ND(12)]	45 [73]
	3 - 5	8/20/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.11	ND(0.040)	ND(0.040)	0.11 B
	5 - 7	8/20/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.070 P	ND(0.042)	0.028 J	0.098 B
	7 - 9	8/20/2004	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	0.14 J	ND(0.30)	ND(0.30)	0.14 J
	9 - 11	8/20/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	2.6	ND(0.25)	ND(0.25)	2.6
	11 - 13	8/20/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	1.3	ND(0.21)	ND(0.21)	1.3
	13 - 15	8/20/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.087	ND(0.036)	0.097	0.18 B
	15 - 17	8/20/2004	ND(0.93)	ND(0.93)	ND(0.93)	ND(0.93)	7.7	ND(0.93)	ND(0.93)	7.7
	17 - 19	8/20/2004	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	17	ND(2.0)	ND(2.0)	17
	19 - 21	8/20/2004	ND(5.0)	ND(5.0)	ND(5.0)	56	ND(5.0)	ND(5.0)	ND(5.0)	56
	21 - 23	8/20/2004	*ND(0.21)*	*ND(0.21)*	*ND(0.21)*	*2.2*	*ND(0.21)*	*ND(0.21)*	*ND(0.21)*	*2.2*
ESSB-K18W	1 - 3	8/19/2004	ND(2.5) [ND(3.6)]	ND(2.5) [ND(3.6)]	ND(2.5) [ND(3.6)]	ND(2.5) [ND(3.6)]	22 [38]	ND(2.5) [ND(3.6)]	ND(2.5) [ND(3.6)]	22 [38]
	3 - 5	8/19/2004	ND(13)	ND(13)	ND(13)	ND(13)	280	ND(13)	ND(13)	280
	5 - 7	8/19/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.22	ND(0.034)	ND(0.034)	0.22
	7 - 9	8/19/2004	ND(10)	ND(10)	ND(10)	ND(10)	50	ND(10)	ND(10)	50
	9 - 11	8/19/2004	ND(11)	ND(11)	ND(11)	ND(11)	300	ND(11)	ND(11)	300
	11 - 13	8/19/2004	ND(20)	ND(20)	ND(20)	ND(20)	720	ND(20)	ND(20)	720
	13 - 15	8/19/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.098	ND(0.036)	ND(0.036)	0.098
	15 - 17	*8/19/2004*	*ND(0.036)*	*ND(0.036)*	*ND(0.036)*	*ND(0.036)*	*0.020 J*	*ND(0.036)*	*ND(0.036)*	*0.020 J*
	17 - 19	8/19/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	19 - 21	8/19/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.21 P	ND(0.037)	ND(0.037)	0.21
ESSB-L08	1 - 3	8/13/2004	ND(19)	ND(19)	ND(19)	ND(19)	62 P	49	ND(19)	110
	3 - 5	8/13/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	0.41	0.53	ND(0.19)	0.94
ESSB-L12	1 - 3	2/10/2004	ND(10)	ND(10)	ND(10)	ND(10)	140	ND(10)	ND(10)	140
	3 - 5	2/10/2004	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	40	ND(1.1)	ND(1.1)	40
	5 - 7	2/10/2004	ND(2.4)	ND(2.4)	ND(2.4)	ND(2.4)	44	ND(2.4)	ND(2.4)	44
	7 - 9	2/10/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.26	0.15	ND(0.042)	0.42
	9 - 11	2/10/2004	ND(5.9)	ND(5.9)	ND(5.9)	ND(5.9)	52	ND(5.9)	ND(5.9)	52
	11 - 13	2/10/2004	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	58	ND(3.9)	ND(3.9)	58
	13 - 15	2/10/2004	ND(2.8)	ND(2.8)	ND(2.8)	ND(2.8)	22	18	ND(2.8)	40
	15 - 17	2/10/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.14	0.094	ND(0.040)	0.23
	17 - 19	2/10/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.17	0.062	ND(0.040)	0.23
ESSB-L12N	1 - 3	8/26/2004	ND(18)	ND(18)	ND(18)	ND(18)	240	ND(18)	ND(18)	240
	3 - 5	8/26/2004	ND(10)	ND(10)	ND(10)	ND(10)	140	ND(10)	ND(10)	140
ESSB-L12SE	1 - 3	8/9/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.18 B	0.075	ND(0.038)	0.26 B
	3 - 5	8/9/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	0.63	0.18 J	ND(0.23)	0.81
ESSB-L12SW	1 - 3	8/4/2004	ND(400)	ND(400)	ND(400)	ND(400)	10000	ND(400)	ND(400)	10000
	3 - 5	8/4/2004	ND(1300)	ND(1300)	ND(1300)	ND(1300)	19000	ND(1300)	ND(1300)	19000
	5 - 7	8/25/2004	ND(530)	ND(530)	ND(530)	ND(530)	4100	ND(530)	ND(530)	4100
	7 - 9	8/25/2004	ND(1000)	ND(1000)	ND(1000)	ND(1000)	8800	ND(1000)	ND(1000)	8800
	9 - 11	8/25/2004	ND(430)	ND(430)	ND(430)	ND(430)	2800	ND(430)	ND(430)	2800
	11 - 13	8/25/2004	ND(21)	ND(21)	ND(21)	ND(21)	240	ND(21)	ND(21)	240
	13 - 15	8/25/2004	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	43	ND(4.0)	ND(4.0)	43
	15 - 17	8/25/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	15	ND(1.2)	ND(1.2)	15
ESSB-L13	4 - 5	8/26/2004	ND(13) [ND(10)]	ND(13) [ND(10)]	ND(13) [ND(10)]	ND(13) [ND(10)]	150 [120]	ND(13) [ND(10)]	ND(13) [ND(10)]	150 [120]
	5 - 6	8/26/2004	ND(20)	ND(20)	ND(20)	ND(20)	230	ND(20)	ND(20)	230
	6 - 7	8/26/2004	ND(10)	ND(10)	ND(10)	ND(10)	220	ND(10)	ND(10)	220
ESSB-L14	1 - 3	2/10/2004	ND(230)	ND(230)	ND(230)	ND(230)	7200	ND(230)	ND(230)	7200
	3 - 5	2/10/2004	ND(0.96)	ND(0.96)	ND(0.96)	ND(0.96)	23	ND(0.96)	ND(0.96)	23
	5 - 7	*2/10/2004*	*ND(0.034)*	*ND(0.034)*	*ND(0.034)*	*ND(0.034)*	*0.44 P*	ND(0.034)	ND(0.034)	0.44
	7 - 9	2/10/2004	ND(0.44)	ND(0.44)	ND(0.44)	ND(0.44)	6.7	3.4	ND(0.44)	10
	9 - 11	2/10/2004	ND(0.47)	ND(0.47)	ND(0.47)	ND(0.47)	4.5	2.2	ND(0.47)	6.7

TABLE 2
ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-L14E	1 - 3	8/4/2004	ND(21)	ND(21)	ND(21)	ND(21)	420	ND(21)	ND(21)	420
	3 - 5	8/4/2004	ND(11)	ND(11)	ND(11)	ND(11)	200	ND(11)	ND(11)	200
	5 - 7	8/25/2004	ND(11)	ND(11)	ND(11)	ND(11)	51 B	ND(11)	ND(11)	51 B
	7 - 9	8/25/2004	ND(8.9)	ND(8.9)	ND(8.9)	ND(8.9)	200 B	ND(8.9)	ND(8.9)	200 B
	9 - 11	8/25/2004	ND(240)	ND(240)	ND(240)	ND(240)	3900 B	ND(240)	ND(240)	3900 B
ESSB-L14W	1 - 3	8/4/2004	ND(94) [ND(240)]	ND(94) [ND(240)]	ND(94) [ND(240)]	3200 [3300]	ND(94) [ND(240)]	ND(94) [ND(240)]	ND(94) [ND(240)]	3200 [3300]
	3 - 5	8/4/2004	ND(0.20)	ND(0.20)	ND(0.20)	2.3	ND(0.20)	ND(0.20)	ND(0.20)	2.3
ESSB-L15	1 - 2	4/28/2004	ND(130)	ND(130)	ND(130)	ND(130)	1100	ND(130)	ND(130)	1100
	2 - 3	4/28/2004	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	10 P	ND(1.1)	ND(1.1)	10
ESSB-L15E	1 - 2	8/4/2004	ND(26)	ND(26)	ND(26)	ND(26)	520	ND(26)	ND(26)	520
	3 - 5	8/25/2004	ND(25) [ND(22)]	ND(25) [ND(22)]	ND(25) [ND(22)]	ND(25) [ND(22)]	470 B [610]	ND(25) [ND(22)]	ND(25) [ND(22)]	470 B [610]
	5 - 7	8/25/2004	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	32	ND(3.9)	ND(3.9)	32
ESSB-L15S	1 - 2	8/4/2004	ND(4.2)	ND(4.2)	ND(4.2)	ND(4.2)	40	ND(4.2)	ND(4.2)	40
ESSB-L16	7 - 9	8/24/2004	ND(0.26) [ND(0.24)]	ND(0.26) [ND(0.24)]	ND(0.26) [ND(0.24)]	ND(0.26) [ND(0.24)]	3.7 [2.4]	1.9 [1.6]	ND(0.26) [ND(0.24)]	5.6 [4.0]
	9 - 11	8/24/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.17	0.15 B	ND(0.036)	0.32 B
	11 - 13	8/24/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.16	ND(0.036)	ND(0.036)	0.16
	19 - 21	8/24/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	3.6	ND(0.20)	ND(0.20)	3.6
	21 - 23	8/24/2004	ND(47)	ND(47)	ND(47)	1200	ND(47)	ND(47)	ND(47)	1200
ESSB-L17	7 - 9	8/24/2004	ND(38)	ND(38)	ND(38)	ND(38)	890	ND(38)	ND(38)	890
	9 - 11	8/24/2004	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	19	ND(1.3)	ND(1.3)	19
	11 - 13	8/24/2004	ND(0.88)	ND(0.88)	ND(0.88)	8.1	ND(0.88)	ND(0.88)	ND(0.88)	8.1
	19 - 21	8/24/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	1.1	ND(0.23)	ND(0.23)	1.1
	21 - 23	8/24/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.31	ND(0.036)	ND(0.036)	0.31 B
ESSB-L18	1 - 3	8/19/2004	ND(0.70)	ND(0.70)	ND(0.70)	ND(0.70)	3.5	ND(0.70)	ND(0.70)	3.5
	3 - 5	8/19/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.8	ND(0.19)	ND(0.19)	1.8
	5 - 7	8/19/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	4.8	ND(0.19)	ND(0.19)	4.8
	7 - 9	8/19/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	0.52	ND(0.21)	ND(0.21)	0.52
	9 - 11	8/19/2004	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	6.8	3.6	ND(1.7)	10
	11 - 13	8/19/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	3.6	ND(0.20)	ND(0.20)	3.6
	13 - 15	8/19/2004	ND(0.70)	ND(0.70)	ND(0.70)	ND(0.70)	2.1	ND(0.70)	ND(0.70)	2.1
	15 - 17	8/19/2004	ND(0.17)	ND(0.17)	ND(0.17)	ND(0.17)	1.2	ND(0.17)	ND(0.17)	1.2
	17 - 19	8/19/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.16	0.10 P	ND(0.035)	0.26
	19 - 21	8/19/2004	ND(0.074)	ND(0.074)	ND(0.074)	ND(0.074)	0.45	ND(0.074)	0.31	0.76
ESSB-M08	1 - 3	2/3/2004	ND(0.46)	ND(0.46)	ND(0.46)	ND(0.46)	7.2	ND(0.46)	ND(0.46)	7.2
	3 - 5	2/3/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.079	ND(0.037)	ND(0.037)	0.079
	5 - 7	2/3/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.080	ND(0.036)	ND(0.036)	0.080
	7 - 9	2/3/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.035 J	ND(0.036)	ND(0.036)	0.035 J
	9 - 11	2/3/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	11 - 13	2/3/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	13 - 15	2/3/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	15 - 16	2/3/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	20 - 22	2/3/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.024 JP	ND(0.039)	ND(0.039)	0.024 J
ESSB-M10	1 - 3	2/5/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	2.2	0.73	ND(0.23)	2.9
	3 - 5	2/5/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.5	0.99	ND(0.22)	2.5
ESSB-M10E	1 - 3	8/25/2004	ND(37) [ND(21)]	ND(37) [ND(21)]	ND(37) [ND(21)]	ND(37) [ND(21)]	740 B [450 B]	ND(37) [ND(21)]	ND(37) [ND(21)]	740 B [450 B]
	3 - 5	8/25/2004	ND(11)	ND(11)	ND(11)	ND(11)	46 B	ND(11)	ND(11)	46 B
	5 - 7	8/25/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	5.1 B	1.6	ND(0.22)	6.6 B
	7 - 9	8/25/2004	ND(0.97)	ND(0.97)	ND(0.97)	ND(0.97)	11 B	5.4	ND(0.97)	16 B
	9 - 11	8/25/2004	ND(4.9)	ND(4.9)	ND(4.9)	ND(4.9)	23 B	13	ND(4.9)	36 B
	11 - 13	8/25/2004	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	0.83 B	0.51	ND(0.28)	1.3 B

T. 2

ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs*
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-M12	1 - 3	2/5/2004	ND(7.4) [ND(9.5)]	ND(7.4) [ND(9.5)]	ND(7.4) [ND(9.5)]	ND(7.4) [ND(9.5)]	52 [77]	26 [35]	ND(7.4) [ND(9.5)]	78 [110]
	3 - 5	2/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.36	0.14 P	ND(0.038)	0.50
	5 - 7	2/5/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.23	0.077 P	ND(0.042)	0.31
	7 - 9	2/5/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.29	0.16	ND(0.044)	0.45
	9 - 11	2/5/2004	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.27	0.18	ND(0.045)	0.45
	11 - 13	2/5/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.034 J	ND(0.036)	ND(0.036)	0.034 J
	13 - 15	2/5/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	15 - 17	2/5/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.8	ND(0.19)	ND(0.19)	1.8
	17 - 19	2/5/2004	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)
	19 - 21	2/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.38	ND(0.038)	ND(0.038)	ND(0.038)	0.38
	21 - 23	2/5/2004	ND(0.24)	ND(0.24)	ND(0.24)	2.7	ND(0.24)	ND(0.24)	ND(0.24)	2.7
ESSB-M14	1 - 3	12/22/2003	ND(200)	ND(200)	ND(200)	ND(200)	84 J	ND(200)	ND(200)	84 J
	3 - 5	12/22/2003	ND(0.73)	ND(0.73)	ND(0.73)	ND(0.73)	5.7	3.7	ND(0.73)	9.4
	5 - 7	12/22/2003	ND(39)	ND(39)	ND(39)	ND(39)	80	ND(39)	ND(39)	80
	7 - 9	12/22/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	21	ND(3.8)	ND(3.8)	21
	9 - 11	12/22/2003	ND(0.074) [ND(3.8)]	ND(0.074) [ND(3.8)]	ND(0.074) [ND(3.8)]	ND(0.074) [ND(3.8)]	0.74 [19]	ND(0.074) [ND(3.8)]	ND(0.074) [ND(3.8)]	0.74 [19]
	11 - 13	12/22/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.39	ND(0.038)	ND(0.038)	0.39
	13 - 15	12/22/2003	ND(0.73)	ND(0.73)	ND(0.73)	ND(0.73)	2.8	ND(0.73)	ND(0.73)	2.8
	16 - 18	12/22/2003	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.14	0.094	ND(0.046)	0.24
	18 - 20	12/22/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.14	0.12	ND(0.043)	0.25
	20 - 22	12/22/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.025 J	0.027 J	ND(0.041)	0.051
ESSB-M16	1 - 2	2/4/2004	ND(2.6)	ND(2.6)	ND(2.6)	ND(2.6)	31	ND(2.6)	ND(2.6)	31
	2 - 4	2/4/2004	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	11	ND(1.7)	ND(1.7)	11
	4 - 6	2/4/2004	ND(5.5)	ND(5.5)	ND(5.5)	ND(5.5)	67	19	ND(5.5)	86
	6 - 8	2/4/2004	ND(4.3)	ND(4.3)	ND(4.3)	ND(4.3)	42	ND(4.3)	ND(4.3)	42
	8 - 10	2/4/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.20	0.049	ND(0.035)	0.25
	10 - 12	2/4/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.32	0.15	ND(0.036)	0.47
	12 - 14	2/4/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.087	0.028 J	ND(0.036)	0.12
	14 - 16	2/4/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.67	0.70 P	ND(0.044)	1.4
	16 - 18	2/4/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.23	0.53 P	ND(0.043)	0.75
ESSB-M17	1 - 3	8/12/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	3.2 P	2.3	ND(0.20)	5.5
	3 - 5	8/12/2004	ND(1100)	ND(1100)	ND(1100)	11000	ND(1100)	ND(1100)	ND(1100)	11000
	5 - 7	8/12/2004	ND(19)	ND(19)	ND(19)	180	ND(19)	ND(19)	ND(19)	180
ESSB-M18	1 - 3	2/4/2004	ND(2.3)	ND(2.3)	ND(2.3)	ND(2.3)	60 P	36	ND(2.3)	96
	3 - 5	2/4/2004	ND(92)	ND(92)	ND(92)	ND(92)	580	ND(92)	ND(92)	580
	5 - 7	2/4/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.29	0.11	ND(0.037)	0.40
	7 - 9	2/4/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.12	ND(0.037)	ND(0.037)	0.12
	9 - 11	2/4/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.024 J	ND(0.036)	ND(0.036)	0.024 J
	11 - 13	2/4/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.8	1.0	ND(0.22)	2.8
	13 - 15	2/4/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.1 P	0.57	ND(0.19)	1.7
	15 - 17	2/4/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.014 J	ND(0.034)	ND(0.034)	0.014 J
	17 - 19	2/4/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.0096 J	ND(0.036)	ND(0.036)	0.0096 J
	19 - 21	2/4/2004	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)
	21 - 23	2/4/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
ESSB-M18N	1 - 3	8/12/2004	ND(0.23) [ND(0.18)]	ND(0.23) [ND(0.18)]	ND(0.23) [ND(0.18)]	ND(0.23) [ND(0.18)]	2.1 [1.9]	ND(0.23) [0.60]	ND(0.23) [ND(0.18)]	2.1 [2.5]
	3 - 5	8/12/2004	ND(21)	ND(21)	ND(21)	ND(21)	170	73	ND(21)	240
	5 - 7	8/12/2004	ND(12)	ND(12)	ND(12)	ND(12)	110	30	ND(12)	140
ESSB-M18S	1 - 3	8/12/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.8	1.0	ND(0.20)	2.8
	3 - 5	8/12/2004	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	11	4.7	ND(1.3)	16
	5 - 7	8/12/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.14	0.10	ND(0.033)	0.24
ESSB-M19	1 - 3	8/17/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	1.0	0.96	ND(0.24)	2.0
	3 - 5	8/17/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.9 P	3.2	ND(0.20)	5.2
	5 - 7	8/17/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.050	0.034	ND(0.033)	0.084

TABLE 2
ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-N14	1 - 3	8/24/2004	ND(200)	ND(200)	ND(200)	6900	ND(200)	ND(200)	ND(200)	6900
	3 - 5	8/24/2004	ND(1000)	ND(1000)	ND(1000)	7800	ND(1000)	ND(1000)	ND(1000)	7800
	5 - 7	8/24/2004	ND(48)	ND(48)	ND(48)	810	ND(48)	ND(48)	ND(48)	810
	7 - 9	8/24/2004	ND(21)	ND(21)	ND(21)	360	ND(21)	ND(21)	ND(21)	360
	9 - 11	8/24/2004	ND(0.25)	ND(0.25)	ND(0.25)	1.5	ND(0.25)	ND(0.25)	ND(0.25)	1.5
	11 - 13	8/24/2004	ND(0.20)	ND(0.20)	ND(0.20)	4.0	ND(0.20)	ND(0.20)	ND(0.20)	4.0
	13 - 15	8/24/2004	ND(0.22)	ND(0.22)	ND(0.22)	0.91	ND(0.22)	ND(0.22)	ND(0.22)	0.91
	15 - 17	8/24/2004	ND(0.23)	ND(0.23)	ND(0.23)	1.4	ND(0.23)	ND(0.23)	ND(0.23)	1.4
	17 - 19	8/24/2004	ND(0.55)	ND(0.55)	ND(0.55)	ND(0.55)	6.0	ND(0.55)	ND(0.55)	6.0
	19 - 21	8/24/2004	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	0.13 P	ND(0.048)	ND(0.048)	0.13 B
	21 - 23	8/24/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.061	ND(0.039)	ND(0.039)	0.061 B
ESSB-N16	1 - 3	8/17/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.076	ND(0.034)	ND(0.034)	0.076
	3 - 5	8/17/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.18	ND(0.034)	ND(0.034)	0.18
	5 - 7	8/17/2004	ND(21)	ND(21)	ND(21)	ND(21)	900	ND(21)	ND(21)	900
	7 - 9	8/17/2004	ND(120)	ND(120)	ND(120)	ND(120)	1700	ND(120)	ND(120)	1700
	9 - 11	8/17/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.15	ND(0.035)	ND(0.035)	0.15
ESSB-N18	1 - 3	8/17/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.16	ND(0.034)	ND(0.034)	0.16
	3 - 5	8/17/2004	ND(10)	ND(10)	ND(10)	ND(10)	55	67	ND(10)	120
	5 - 7	8/17/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	8.0	9.6	ND(1.0)	18
	7 - 8	8/17/2004	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	4.9	3.4	ND(0.38)	8.3
	8 - 10	8/17/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	1.7	1.0	ND(0.23)	2.7
ESSB-O10	1 - 3	1/29/2004	ND(0.58)	ND(0.58)	ND(0.58)	ND(0.58)	14	9.9	ND(0.58)	23
	3 - 5	1/29/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	4.2	3.6	ND(0.20)	7.8
	5 - 7	1/29/2004	ND(0.20) [ND(2.0)]	ND(0.20) [ND(2.0)]	ND(0.20) [ND(2.0)]	ND(0.20) [ND(2.0)]	8.6 [20]	5.8 [14]	ND(0.20) [ND(2.0)]	14 [34]
	7 - 9	1/29/2004	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	30	16	ND(2.0)	46
	9 - 11	1/29/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.022 JP	ND(0.036)	ND(0.036)	0.022 J
	11 - 13	1/29/2004	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.13	ND(0.046)	0.014 JP	0.15
	13 - 15	1/29/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.044	ND(0.037)	ND(0.037)	0.044
	15 - 17	1/29/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.030 J	ND(0.037)	ND(0.037)	0.030 J
	17 - 19	1/29/2004	ND(0.058)	ND(0.058)	ND(0.058)	ND(0.058)	0.024 JP	ND(0.058)	ND(0.058)	0.024 J
	19 - 21	1/29/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.021 J	0.030 J	ND(0.042)	0.051
	21 - 23	1/29/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
ESSB-O12	1 - 3	1/29/2004	ND(4.6)	ND(4.6)	ND(4.6)	ND(4.6)	92	ND(4.6)	ND(4.6)	92
	3 - 5	1/29/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	8.7	5.7	ND(1.2)	14
	5 - 7	1/29/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.032 BJ	0.020 J	ND(0.034)	0.052 B
	7 - 9	1/29/2004	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	6.6	4.2	ND(0.40)	11
	9 - 11	1/29/2004	ND(0.22) [ND(0.036)]	ND(0.22) [ND(0.036)]	ND(0.22) [ND(0.036)]	ND(0.22) [ND(0.036)]	1.3 [0.14 B]	0.90 [0.098]	ND(0.22) [ND(0.036)]	2.2 [0.23 B]
	11 - 13	1/29/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.11 B	0.090	ND(0.035)	0.20 B
	13 - 15	1/29/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	15 - 17	1/29/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.21 B	0.12	ND(0.038)	0.33 B
	17 - 19	1/29/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.080 B	ND(0.038)	0.0092 JP	0.090 B
	19 - 21	1/29/2004	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	0.81 B	0.38 P	ND(0.049)	1.2 B
ESSB-O14	1 - 3	2/2/2004	ND(2100) [ND(880)]	ND(2100) [ND(880)]	ND(2100) [ND(880)]	17000 [12000]	ND(2100) [ND(880)]	ND(2100) [ND(880)]	ND(2100) [ND(880)]	17000 [12000]
	3 - 5	2/2/2004	ND(980)	ND(980)	ND(980)	16000	ND(980)	ND(980)	ND(980)	16000
	5 - 7	2/2/2004	ND(5600)	ND(5600)	ND(5600)	40000	ND(5600)	ND(5600)	ND(5600)	40000
	7 - 9	2/2/2004	ND(56)	ND(56)	ND(56)	240	ND(56)	ND(56)	ND(56)	240
	9 - 11	2/2/2004	ND(46)	ND(46)	ND(46)	490	ND(46)	ND(46)	ND(46)	490
	11 - 13	2/2/2004	ND(2.1)	ND(2.1)	ND(2.1)	19	ND(2.1)	ND(2.1)	ND(2.1)	19
	15 - 17	2/2/2004	ND(13)	ND(13)	ND(13)	150	ND(13)	ND(13)	ND(13)	150
	17 - 19	2/2/2004	ND(2.2)	ND(2.2)	ND(2.2)	19	ND(2.2)	ND(2.2)	ND(2.2)	19
	19 - 21	2/2/2004	ND(0.27)	ND(0.27)	ND(0.27)	1.2	ND(0.27)	ND(0.27)	ND(0.27)	1.2
	21 - 23	2/2/2004	ND(0.24)	ND(0.24)	ND(0.24)	1.2	ND(0.24)	ND(0.24)	ND(0.24)	1.2

ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-O14E	1 - 3	8/11/2004	ND(2400)	ND(2400)	ND(2400)	21000	ND(2400)	ND(2400)	ND(2400)	21000
	3 - 5	8/11/2004	ND(2200)	ND(2200)	ND(2200)	8500	ND(2200)	ND(2200)	ND(2200)	8500
	5 - 7	8/11/2004	ND(2200) [ND(2200)]	ND(2200) [ND(2200)]	ND(2200) [ND(2200)]	15000 [17000]	ND(2200) [ND(2200)]	ND(2200) [ND(2200)]	ND(2200) [ND(2200)]	15000 [17000]
	7 - 9	8/11/2004	ND(12)	ND(12)	ND(12)	34	ND(12)	ND(12)	ND(12)	34
	9 - 11	8/11/2004	ND(0.46)	ND(0.46)	ND(0.46)	4.4	ND(0.46)	ND(0.46)	ND(0.46)	4.4
	11 - 13	8/11/2004	ND(0.26)	ND(0.26)	ND(0.26)	2.4	ND(0.26)	ND(0.26)	ND(0.26)	2.4
	13 - 15	8/11/2004	ND(0.27)	ND(0.27)	ND(0.27)	2.3	ND(0.27)	ND(0.27)	ND(0.27)	2.3
	15 - 17	8/11/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	0.51	ND(0.20)	ND(0.20)	0.51
	17 - 19	8/11/2004	ND(0.042)	ND(0.042)	ND(0.042)	0.23	ND(0.042)	ND(0.042)	ND(0.042)	0.23
	19 - 21	8/11/2004	ND(0.051)	ND(0.051)	ND(0.051)	0.10	ND(0.051)	ND(0.051)	ND(0.051)	0.10
	21 - 23	8/11/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.28	ND(0.040)	ND(0.040)	ND(0.040)	0.28
ESSB-O14N	1 - 3	8/12/2004	ND(1900)	ND(1900)	ND(1900)	24000	ND(1900)	ND(1900)	ND(1900)	24000
	3 - 5	8/12/2004	ND(420)	ND(420)	ND(420)	14000	ND(420)	ND(420)	ND(420)	14000
	5 - 7	8/12/2004	ND(3.7)	ND(3.7)	ND(3.7)	25	ND(3.7)	ND(3.7)	ND(3.7)	25
	7 - 9	8/12/2004	ND(24)	ND(24)	ND(24)	220	ND(24)	ND(24)	ND(24)	220
	9 - 11	8/12/2004	ND(0.22)	ND(0.22)	ND(0.22)	2.7	ND(0.22)	ND(0.22)	ND(0.22)	2.7
	11 - 11.4	8/12/2004	ND(0.27)	ND(0.27)	ND(0.27)	1.1	ND(0.27)	ND(0.27)	ND(0.27)	1.1
	15 - 15.5	8/12/2004	ND(0.44)	ND(0.44)	ND(0.44)	5.3	ND(0.44)	ND(0.44)	ND(0.44)	5.3
ESSB-O14W	1 - 3	8/11/2004	ND(48)	ND(48)	ND(48)	ND(48)	640	ND(48)	ND(48)	640
	3 - 5	8/11/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.14	0.064	ND(0.035)	0.20
	5 - 7	8/11/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.037	0.015 J	ND(0.035)	0.052
	7 - 9	8/11/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.024 J	ND(0.034)	ND(0.034)	0.032 J
	9 - 11	8/11/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.0096 J	0.012 JP	ND(0.034)	0.022 J
	11 - 13	8/11/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.11	0.067	ND(0.036)	0.17
	13 - 15	8/11/2004	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	0.65 J	ND(1.4)	ND(1.4)	0.65 J
	15 - 17	8/11/2004	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)
	17 - 19	8/11/2004	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.25	ND(0.046)	ND(0.046)	0.25
	19 - 21	8/11/2004	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	0.040 JP	ND(0.051)	ND(0.051)	0.040 J
	21 - 23	8/11/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.017 J	ND(0.039)	ND(0.039)	0.020 J
ESSB-O16	1 - 3	2/4/2004	ND(200)	ND(200)	ND(200)	4600	ND(200)	ND(200)	ND(200)	4600
	3 - 5	2/4/2004	ND(100)	ND(100)	ND(100)	540	ND(100)	ND(100)	ND(100)	540
	5 - 7	2/4/2004	ND(0.23)	ND(0.23)	ND(0.23)	1.3	ND(0.23)	ND(0.23)	ND(0.23)	1.3
	7 - 9	2/4/2004	ND(23)	ND(23)	ND(23)	190	ND(23)	ND(23)	ND(23)	190
	9 - 11	2/4/2004	ND(0.21)	ND(0.21)	ND(0.21)	0.87	ND(0.21)	ND(0.21)	ND(0.21)	0.87
	11 - 13	2/4/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.045	ND(0.036)	ND(0.036)	ND(0.036)	0.045
	13 - 15	2/4/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.020 JP	ND(0.034)	ND(0.034)	ND(0.034)	0.020 J
	15 - 17	2/4/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.036 J	ND(0.037)	ND(0.037)	0.036 J
	17 - 19	2/4/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.049	ND(0.040)	ND(0.040)	0.049
	19 - 21	2/4/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.21 P	0.19 P	ND(0.044)	0.40
	21 - 23	2/4/2004	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
ESSB-O17	1 - 3	8/17/2004	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	8.6	9.9	ND(1.1)	18
	3 - 5	8/17/2004	ND(2.4)	ND(2.4)	ND(2.4)	ND(2.4)	16	21	ND(2.4)	37
	5 - 7	8/17/2004	ND(10)	ND(10)	ND(10)	ND(10)	150	ND(10)	ND(10)	150
	7 - 9	8/17/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.6	0.79 P	ND(0.20)	2.4
	9 - 11	8/17/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.9	0.75	ND(0.19)	2.7

TABLE 2
ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-O18	1 - 2	1/28/2004	ND(53)	ND(53)	ND(53)	ND(53)	810	1000	ND(53)	1800
	2 - 4	1/28/2004	ND(54)	ND(54)	ND(54)	ND(54)	1300	1300	ND(54)	2700
	4 - 6	1/28/2004	ND(40)	ND(40)	ND(40)	ND(40)	1000	1100	ND(40)	2100
	6 - 8	1/28/2004	ND(40)	ND(40)	ND(40)	ND(40)	220	230	ND(40)	450
	8 - 10	1/28/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	1.3	1.2	ND(0.23)	2.5
	10 - 12	1/28/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.54 B	0.40	ND(0.035)	0.93 B
	12 - 14	1/28/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.030 BJ	0.018 J	ND(0.039)	0.048 B
	14 - 16	1/28/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.043 BP	0.043	ND(0.035)	0.086 B
	16 - 18	1/28/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	18 - 20	1/28/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.027 BJ	0.030 J	ND(0.033)	0.056 B
	20 - 22	1/28/2004	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	0.010 BJP [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	0.010 BJ [ND(0.039)]
ESSB-O18E	1 - 3	8/17/2004	ND(0.24) [ND(0.19)]	ND(0.24) [ND(0.19)]	ND(0.24) [ND(0.19)]	ND(0.24) [ND(0.19)]	0.76 P [0.70 P]	0.82 [0.76]	ND(0.24) [ND(0.19)]	1.6 [1.5]
	3 - 5	8/17/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.021 JP	ND(0.033)	ND(0.033)	0.021 J
	5 - 7	8/17/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	7 - 8	8/17/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.071	0.042 P	ND(0.035)	0.11
	8 - 10	8/17/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.094	0.030 J	ND(0.033)	0.12
ESSB-P17	1 - 2	4/29/2004	ND(0.99)	ND(0.99)	ND(0.99)	ND(0.99)	9.1	ND(0.99)	ND(0.99)	9.1
ESSB-P18E	1 - 3	8/17/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.048 P	0.032 J	ND(0.033)	0.080
	3 - 5	8/17/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	5 - 7	8/17/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	7 - 8	8/17/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	8 - 10	8/17/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
ESSB-Q10	1 - 3	1/27/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	1.0	0.52	ND(0.25)	1.5
	3 - 5	1/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.16 B	0.064	ND(0.034)	0.22 B
	5 - 7	1/27/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.14 B	0.056	ND(0.033)	0.19 B
	7 - 9	1/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.011 BJ	ND(0.034)	ND(0.034)	0.011 BJ
	9 - 11	1/27/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	11 - 13	1/27/2004	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	0.037 BJ	ND(0.051)	ND(0.051)	0.037 BJ
	13 - 15	1/27/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.012 BJP	ND(0.042)	ND(0.042)	0.012 BJ
	15 - 17	1/27/2004	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.40 B	0.33	ND(0.046)	0.72 B
	17 - 19	1/27/2004	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	1.4 P	1.1	ND(0.34)	2.5
	19 - 21	1/27/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	0.56	0.42	ND(0.19)	0.98
ESSB-Q11	1 - 3	8/6/2004	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.25 P	ND(0.18)	ND(0.18)	0.25
	3 - 4	8/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.011 J	ND(0.036)	ND(0.036)	0.011 J
	4 - 6	8/6/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.025 J	0.022 J	ND(0.033)	0.047
ESSB-Q12	1 - 2	1/29/2004	ND(12)	ND(12)	ND(12)	ND(12)	150	92	ND(12)	240
	2 - 4	1/29/2004	ND(11)	ND(11)	ND(11)	ND(11)	130	ND(11)	ND(11)	130
	4 - 6	1/29/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.043	0.033 J	ND(0.037)	0.076
	6 - 8	1/29/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	1.8	0.88	ND(0.23)	2.6
	8 - 10	1/29/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.13	0.055	ND(0.044)	0.19
	10 - 12	1/29/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.094	ND(0.034)	ND(0.034)	0.094
	12 - 14	1/29/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.012 JP	ND(0.043)	ND(0.043)	0.012 J
	14 - 16	1/29/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.17	0.18	ND(0.041)	0.34
	16 - 18	1/29/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.029 J	0.043	ND(0.043)	0.072
	18 - 20	1/29/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.14	0.065	ND(0.038)	0.20
	20 - 22	1/29/2004	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.020 J	ND(0.044)	ND(0.044)	0.020 J
ESSB-Q12E	1 - 3	8/6/2004	ND(25)	ND(25)	ND(25)	ND(25)	120	80	ND(25)	200
	3 - 4	8/6/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.17	0.11	ND(0.035)	0.27
	4 - 6	8/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.036	0.022 JP	ND(0.036)	0.058
ESSB-Q12N	1 - 3	8/6/2004	ND(17)	ND(17)	ND(17)	ND(17)	200	95	ND(17)	300
	3 - 4	8/6/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.5	0.87	ND(0.20)	2.4
	4 - 6	8/6/2004	ND(0.19) [ND(0.19)]	ND(0.19) [ND(0.19)]	ND(0.19) [ND(0.19)]	ND(0.19) [ND(0.19)]	3.3 [3.3]	1.9 [2.0]	ND(0.19) [ND(0.19)]	5.2 [5.3]

TA

ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-Q14	1 - 3	1/22/2004	ND(270)	ND(270)	ND(270)	ND(270)	5800	3300	ND(270)	9100
	3 - 5	1/22/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.12	0.042	ND(0.036)	0.16
	5 - 7	1/22/2004	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	0.064 [0.053]	0.037 [0.026 JP]	ND(0.036) [ND(0.036)]	0.10 [0.079]
	11 - 13	1/22/2004	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	26	18	ND(2.5)	44
	13 - 15	1/22/2004	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	3.0	2.2	ND(0.27)	5.2
ESSB-Q14E	1 - 3	8/9/2004	ND(490)	ND(490)	ND(490)	15000	ND(490)	ND(490)	ND(490)	15000
	3 - 5	8/9/2004	ND(380)	ND(380)	ND(380)	7700	ND(380)	ND(380)	ND(380)	7700
ESSB-Q14W	1 - 3	8/9/2004	ND(4.3)	ND(4.3)	ND(4.3)	ND(4.3)	22	13	ND(4.3)	35
	3 - 5	8/9/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	4.2	ND(0.19)	4.2
ESSB-Q16	1 - 3	1/22/2004	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	24	ND(2.2)	24
	3 - 5	1/22/2004	ND(1.2) [ND(1.2)]	ND(1.2) [ND(1.2)]	ND(1.2) [ND(1.2)]	ND(1.2) [ND(1.2)]	9.3 [12]	13 [19]	ND(1.2) [ND(1.2)]	22 [31]
	5 - 7	1/22/2004	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	18	38	ND(5.0)	56
ESSB-Q16E	2 - 4	8/10/2004	ND(19)	ND(19)	ND(19)	ND(19)	33	42	ND(19)	75
	4 - 6	8/10/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	0.52	0.52	ND(0.23)	1.0
	6 - 8	8/10/2004	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.51	0.69	ND(0.18)	1.2
ESSB-Q16N	2 - 4	8/10/2004	ND(49) [ND(13)]	ND(49) [ND(13)]	ND(49) [ND(13)]	ND(49) [ND(13)]	50 [57]	69 [81]	ND(49) [ND(13)]	120 [140]
	4 - 6	8/10/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.22	0.38	ND(0.037)	0.60
	6 - 8	8/10/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.5	2.9	ND(0.20)	4.4
ESSB-Q16W	2 - 4	8/10/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	15	ND(1.0)	15
	4 - 6	8/10/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.097	ND(0.035)	0.097
	6 - 8	8/10/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	0.91	ND(0.21)	0.91
ESSB-Q18	1 - 3	1/28/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.036 B	0.038	ND(0.033)	0.073 B
	3 - 5	1/28/2004	ND(0.034) [ND(0.036)]	ND(0.034) [ND(0.036)]	ND(0.034) [ND(0.036)]	ND(0.034) [ND(0.036)]	0.014 BJ [ND(0.036)]	0.0097 JP [ND(0.036)]	ND(0.034) [ND(0.036)]	0.024 BJ [ND(0.036)]
	5 - 7	1/28/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	7 - 9	1/28/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.016 J	ND(0.036)	0.014 JP	ND(0.036)	0.030 BJ
	9 - 11	1/28/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.014 J	ND(0.035)	ND(0.035)	ND(0.035)	0.014 BJ
	11 - 13	1/28/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.024 JP	ND(0.036)	0.019 J	ND(0.036)	0.042 B
	13 - 15	1/28/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.012 BJ	ND(0.037)	ND(0.037)	0.012 BJ
	15 - 17	1/28/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.029 BJ	0.024 J	ND(0.042)	0.053 B
ESSB-R12	1 - 3	8/6/2004	ND(400)	ND(400)	ND(400)	ND(400)	4200	ND(400)	ND(400)	4200
	3 - 4	8/6/2004	ND(51)	ND(51)	ND(51)	ND(51)	190	150	ND(51)	340
	4 - 6	8/6/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	0.62	0.30	ND(0.21)	0.92
ESSB-R14	1 - 3	8/9/2004	ND(120)	ND(120)	ND(120)	ND(120)	880	520	ND(120)	1400
	3 - 5	8/9/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	1.5	1.0	ND(0.23)	2.6
ESSB-R16	2 - 4	8/10/2004	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	1.2	ND(0.27)	1.2
	4 - 6	8/10/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.023 BJ	ND(0.033)	ND(0.033)	0.023 BJ
	6 - 8	8/10/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.17 B	0.041	ND(0.034)	0.21 B
ESSB-R18	1 - 3	1/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.060	0.056	ND(0.034)	0.12
ESSB-R22	1 - 3	1/27/2004	ND(0.47)	ND(0.47)	ND(0.47)	ND(0.47)	4.1	2.8	ND(0.47)	6.9
ESSB-S11	1 - 2	4/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.080	ND(0.034)	ND(0.034)	0.080
ESSB-S11E	1 - 2	4/21/2004	ND(43)	ND(43)	ND(43)	ND(43)	1000	ND(43)	ND(43)	1000
	2 - 3	4/21/2004	ND(19)	ND(19)	ND(19)	ND(19)	87	ND(19)	ND(19)	87
ESSB-S11N	1 - 2	4/21/2004	ND(12)	ND(12)	ND(12)	ND(12)	170	ND(12)	ND(12)	170
	2 - 3	4/21/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	0.60 P	ND(0.19)	ND(0.19)	0.60
ESSB-S11S	1 - 2	4/21/2004	ND(49)	ND(49)	ND(49)	ND(49)	1000	ND(49)	ND(49)	1000
	2 - 3	4/21/2004	ND(23)	ND(23)	ND(23)	ND(23)	330	ND(23)	ND(23)	330
ESSB-S11SS	1 - 2	4/21/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	0.65	ND(0.19)	ND(0.19)	0.65
	2 - 3	4/21/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.094	ND(0.033)	0.029 J	0.12
ESSB-S11W	1 - 2	4/21/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	3.3	ND(0.19)	ND(0.19)	3.3

TABLE 2
ELM STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-S12	1 - 3	1/26/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	1.3	ND(0.24)	ND(0.24)	1.3
	3 - 5	1/26/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.23	ND(0.036)	ND(0.036)	0.23
	5 - 7	1/26/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.091	ND(0.037)	ND(0.037)	0.091
	7 - 9	1/26/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.051	ND(0.035)	ND(0.035)	0.051
	9 - 11	1/26/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.050	ND(0.035)	ND(0.035)	0.050
	11 - 13	1/26/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.11	ND(0.037)	ND(0.037)	0.11
	13 - 15	1/26/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.089	ND(0.036)	ND(0.036)	0.089
	15 - 17	1/26/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.084	ND(0.040)	ND(0.040)	0.084
	17 - 19	1/26/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.050	ND(0.040)	ND(0.040)	0.050
ESSB-S14	1 - 3	1/21/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.018 J	0.013 JP	ND(0.037)	0.032 J
	3 - 5	1/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.0090 J	ND(0.034)	ND(0.034)	0.0090 J
	5 - 7	1/21/2004	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	43	ND(4.8)	43
	7 - 9	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.019 J	0.026 J	ND(0.035)	0.046
	9 - 11	1/21/2004	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	5.0	5.0	ND(0.26)	10
	11 - 13	1/21/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	13 - 15	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.080	0.063	ND(0.035)	0.14
	15 - 17	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.011 J	0.011 J	ND(0.035)	0.022 J
	17 - 19	1/21/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.029 J	0.022 J	ND(0.041)	0.051
	19 - 20	1/21/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.031 J	0.024 J	ND(0.041)	0.056
ESSB-S16	1 - 3	1/21/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.030 J	ND(0.038)	ND(0.038)	0.030 J
	3 - 5	1/21/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.082	0.066	ND(0.041)	0.15
	5 - 7	1/21/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.031 J	0.012 JP	ND(0.039)	0.044
	7 - 9	1/21/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.15	0.062	ND(0.037)	0.21
	9 - 11	1/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.26	0.12	ND(0.034)	0.37
	11 - 13	1/21/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	2.9	ND(0.20)	ND(0.20)	2.9
	13 - 15	1/21/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	2.7	ND(0.25)	ND(0.25)	2.7
	15 - 17	1/21/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.22	0.070	ND(0.041)	0.29
ESSB-S18	1 - 3	1/21/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	3 - 5	1/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	5 - 7	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	7 - 9	1/21/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	9 - 11	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.0094 J	ND(0.035)	ND(0.035)	0.0094 J
	11 - 12	1/21/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.072	ND(0.037)	ND(0.037)	0.072
ESSB-S20	1 - 3	12/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.088	ND(0.038)	ND(0.038)	0.088
	3 - 5	12/30/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.076	ND(0.036)	ND(0.036)	0.076
	5 - 7	12/31/2003	ND(0.037)	ND(0.037)	ND(0.037)	0.050 BP	ND(0.037)	ND(0.037)	ND(0.037)	0.050 B
	7 - 9	12/30/2003	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	0.042 [0.031 J]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	0.042 [0.031 J]
	9 - 11	12/30/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.068	ND(0.035)	ND(0.035)	0.068
	11 - 13	12/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.11	ND(0.038)	ND(0.038)	0.11
	13 - 15	12/30/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.057	ND(0.039)	ND(0.039)	0.057
ESSB-S22	1 - 3	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.0093 J	ND(0.035)	ND(0.035)	0.0093 J
	3 - 5	1/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.0095 J	ND(0.034)	ND(0.034)	0.0095 J
	5 - 7	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	7 - 9	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.097	ND(0.035)	ND(0.035)	0.097
	9 - 11	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	11 - 13	1/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.045	ND(0.035)	ND(0.035)	0.045
	13 - 15	1/21/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.13	ND(0.038)	ND(0.038)	0.13
	15 - 17	1/21/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.038 J	ND(0.041)	ND(0.041)	0.038 J

T.

ELM STREET AREA PCB ... -SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Elm St Subsurface Soil Criterion			--	--	--	--	--	--	--	100
ESSB-T16	1 - 3	12/29/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.028 J	0.026 J	ND(0.036)	0.053
	3 - 5	12/23/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	0.91	0.44	ND(0.19)	1.4
	5 - 7	12/23/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.028 J	ND(0.036)	ND(0.036)	0.028 J
	7 - 9	12/23/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.035 J	0.021 J	ND(0.036)	0.056
	9 - 11	12/23/2003	ND(0.078)	ND(0.078)	ND(0.078)	ND(0.078)	0.68	ND(0.078)	ND(0.078)	0.68
	11 - 13	12/23/2003	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	6.4	ND(3.7)	ND(3.7)	6.4
	13 - 15	12/29/2003	ND(0.073)	ND(0.073)	ND(0.073)	ND(0.073)	0.44	ND(0.073)	ND(0.073)	0.44
	15 - 17	12/29/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.20	ND(0.036)	ND(0.036)	0.20
	17 - 19	12/29/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.034 JP	ND(0.041)	ND(0.041)	0.034 J
SB-15	1 - 2	4/28/2004	ND(120)	ND(120)	ND(120)	ND(120)	720	570	ND(120)	1300
	1 - 3	8/3/2004	ND(190)	ND(190)	ND(190)	ND(190)	250	150 J	ND(190)	400
	2 - 3	4/28/2004	ND(1100)	ND(1100)	ND(1100)	ND(1100)	1700 P	1300	ND(1100)	3000
	3 - 5	8/3/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.15	0.11	ND(0.033)	0.26
	5 - 7	8/3/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.017 J	ND(0.035)	ND(0.035)	0.017 J
SB-15E	1 - 3	8/3/2004	ND(19)	ND(19)	ND(19)	ND(19)	120	36	ND(19)	160
	3 - 5	8/3/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	4.2	3.4	ND(0.22)	7.7
	5 - 7	8/3/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	2.9	2.6	ND(0.23)	5.5
SB-15S	1 - 3	8/3/2004	ND(96)	ND(96)	ND(96)	ND(96)	290	220	ND(96)	510
	3 - 5	8/3/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	0.40	0.16 J	ND(0.21)	0.56
	5 - 7	8/3/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.032 J	0.017 J	ND(0.034)	0.049
SB-15W	1 - 3	8/3/2004	ND(22)	ND(22)	ND(22)	ND(22)	660	ND(22)	ND(22)	660
	3 - 5	8/3/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	2.1	1.7	ND(0.23)	3.8
	5 - 7	8/3/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	13	6.5	ND(1.2)	20
SB-17	1 - 3	8/4/2004	ND(46)	ND(46)	ND(46)	ND(46)	460	220	ND(46)	680
	3 - 5	8/4/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	1.8	1.0	ND(0.24)	2.9
SB-17W	1 - 3	8/4/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	1.2	1.1	ND(0.24)	2.4
SB-19	1 - 2	4/28/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	2.8 P	1.6	ND(0.24)	4.4
SB-20	1 - 2	4/28/2004	ND(20)	ND(20)	ND(20)	ND(20)	200	ND(20)	ND(20)	200
	2 - 3	4/28/2004	ND(2.7)	ND(2.7)	ND(2.7)	ND(2.7)	25	ND(2.7)	ND(2.7)	25
SB-20S	3 - 4	8/26/2004	ND(12)	ND(12)	ND(12)	ND(12)	170	ND(12)	ND(12)	170
	4 - 5	8/26/2004	ND(10)	ND(10)	ND(10)	ND(10)	100	ND(10)	ND(10)	100
	5 - 6	8/26/2004	ND(5.5)	ND(5.5)	ND(5.5)	ND(5.5)	71	ND(5.5)	ND(5.5)	71
SB-21	1 - 2	4/28/2004	ND(21)	ND(21)	ND(21)	ND(21)	400	ND(21)	ND(21)	400
	2 - 3	4/28/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	3.3	ND(0.25)	ND(0.25)	3.3
SB-26	1 - 3	8/9/2004	ND(51)	ND(51)	ND(51)	ND(51)	710	240	ND(51)	950
	3 - 5	8/9/2004	ND(49)	ND(49)	ND(49)	ND(49)	260	210	ND(49)	470
SB-38	1 - 2	4/28/2004	ND(1.1) [ND(0.034)]	ND(1.1) [ND(0.034)]	ND(1.1) [ND(0.034)]	ND(1.1) [ND(0.034)]	7.9 [0.021 J]	ND(1.1) [0.022 J]	ND(1.1) [ND(0.034)]	7.9 [0.043]

Notes:
1. Shaded sample results indicate samples containing PCBs at concentrations in excess of the Subsurface Soil Cleanup Levels of 100 ppm for the Site and 1 ppm for the area west of the site, including Keyes Drive.
2. Shaded sample IDs represent those samples proposed for inclusion in the delineation data set potentially subject to Tier II and Tier III validation.

T,

MILL STREET AREA PCB SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Surface Soil Criterion			--	--	--	--	--	--	--	1
EB-13S	0 - 1	4/22/2004	ND(12)	ND(12)	ND(12)	ND(12)	82	ND(12)	ND(12)	82
EB-13SS	0 - 1	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	0.059	ND(0.033)	ND(0.033)	ND(0.033)	0.059
MSMW-24C	0 - 1	1/5/2004	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.76	ND(0.18)	ND(0.18)	0.76
MSSB-B07	0 - 1	2/18/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.056	0.016 J	ND(0.036)	0.073
MSSB-B09	0 - 1	2/19/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.11	ND(0.037)	0.16	0.26
MSSB-B11	0 - 1	2/18/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.044	0.022 J	ND(0.036)	0.067
MSSB-B13	0 - 1	2/12/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	1.2	0.45	ND(0.23)	1.6
MSSB-B15	0 - 1	2/12/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.31	0.16	ND(0.035)	0.47
MSSB-B17	0 - 1	2/12/2004	ND(0.24)	ND(0.24)	ND(0.24)	2.4	ND(0.24)	ND(0.24)	ND(0.24)	2.4
MSSB-B18	0 - 1	7/7/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.050 B	ND(0.033)	ND(0.033)	0.050 B
MSSB-B19	0 - 1	7/7/2004	ND(0.034) [ND(0.035)]	ND(0.034) [ND(0.035)]	ND(0.034) [ND(0.035)]	ND(0.034) [ND(0.035)]	0.046 B [0.044 B]	ND(0.034) [ND(0.035)]	ND(0.034) [ND(0.035)]	0.046 B [0.044 B]
MSSB-B20	0 - 1	7/7/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.051 B	ND(0.034)	ND(0.034)	0.051 B
MSSB-B21	0 - 1	7/7/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.032 BJ	ND(0.033)	ND(0.033)	0.032 BJ
MSSB-C01	0 - 1	1/13/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.15	ND(0.036)	ND(0.036)	0.15
MSSB-C03	0 - 1	1/20/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	0.73	ND(0.21)	ND(0.21)	0.73
MSSB-C05	0 - 1	1/6/2004	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	7.0	ND(3.7)	ND(3.7)	7.0
MSSB-C07	0 - 1	1/6/2004	ND(280)	ND(280)	ND(280)	ND(280)	1500 B	ND(280)	ND(280)	1500 B
MSSB-C09	0 - 1	1/13/2004	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	0.73	ND(0.26)	ND(0.26)	0.73
MSSB-C11	0 - 1	1/8/2004	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	6.6	ND(1.9)	ND(1.9)	6.6 B
MSSB-C13	0 - 1	1/8/2004	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	1.4	ND(0.18)	ND(0.18)	1.4 B
MSSB-C15	0 - 1	1/6/2004	ND(0.34)	ND(0.34)	ND(0.34)	2.5	ND(0.34)	ND(0.34)	ND(0.34)	2.5
MSSB-C17	0 - 1	1/7/2004	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	0.73	ND(0.34)	ND(0.34)	0.73
MSSB-C19	0 - 1	1/7/2004	ND(0.073)	ND(0.073)	ND(0.073)	0.27 B	ND(0.073)	ND(0.073)	ND(0.073)	0.27 B
MSSB-D17	0 - 1	12/17/2003	ND(0.69)	ND(0.69)	ND(0.69)	ND(0.69)	3.0	ND(0.69)	ND(0.69)	3.0
MSSB-E01	0 - 1	12/19/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.076 B	ND(0.039)	ND(0.039)	0.076 B
MSSB-E03	0 - 1	12/23/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.17	ND(0.038)	ND(0.038)	0.17
MSSB-E05	0 - 1	12/4/2003	ND(3.5)	ND(3.5)	ND(3.5)	ND(3.5)	14	9.2	ND(3.5)	23
MSSB-E07	0 - 1	12/9/2003	ND(750)	ND(750)	ND(750)	ND(750)	13000	ND(750)	ND(750)	13000
MSSB-E09	0 - 1	12/9/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	7.7	ND(1.9)	ND(1.9)	7.7
MSSB-E11	0 - 1	12/18/2003	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	28 B	ND(1.8)	ND(1.8)	28 B
MSSB-E13	0 - 1	12/17/2003	ND(72)	ND(72)	ND(72)	ND(72)	920	ND(72)	ND(72)	920
MSSB-E13S	0 - 1	4/22/2004	ND(2.1)	ND(2.1)	ND(2.1)	19	ND(2.1)	ND(2.1)	ND(2.1)	19
MSSB-E13SS	0 - 1	4/22/2004	ND(0.75)	ND(0.75)	ND(0.75)	7.8	ND(0.75)	ND(0.75)	ND(0.75)	7.8
MSSB-E14SE	0 - 1	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	0.095	ND(0.033)	ND(0.033)	ND(0.033)	0.095
MSSB-E14SW	0 - 1	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	0.021 J	ND(0.033)	ND(0.033)	ND(0.033)	0.021 J
MSSB-E15	0 - 1	12/17/2003	ND(680)	ND(680)	ND(680)	ND(680)	5200	ND(680)	ND(680)	5200
MSSB-E15S	0 - 1	4/22/2004	ND(0.36)	ND(0.36)	ND(0.36)	3.9	ND(0.36)	ND(0.36)	ND(0.36)	3.9
MSSB-F07	0 - 1	12/12/2003	ND(0.75)	ND(0.75)	ND(0.75)	ND(0.75)	6.4	ND(0.75)	ND(0.75)	6.4
MSSB-G01	0 - 1	12/11/2003	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.045	ND(0.034)	ND(0.034)	0.045
MSSB-G03	0 - 1	12/16/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.046	ND(0.035)	ND(0.035)	0.046
MSSB-G05	0 - 1	12/16/2003	ND(0.71)	ND(0.71)	ND(0.71)	ND(0.71)	2.7 B	ND(0.71)	ND(0.71)	ND(0.71)
MSSS-B13E	0 - 1	4/19/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	1.3	ND(0.21)	ND(0.21)	1.3
MSSS-B13N	0 - 1	4/19/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.11	ND(0.033)	ND(0.033)	0.11
MSSS-B13W	0 - 1	4/19/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	0.94	ND(0.21)	ND(0.21)	0.94
MSSS-B17N	0 - 1	4/19/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	0.97	ND(0.25)	ND(0.25)	0.97
MSSS-C02	0 - 1	1/12/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	0.58	0.34 P	ND(0.24)	0.92
MSSS-C04	0 - 1	1/14/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.024 J	ND(0.040)	0.024 J
MSSS-C05N	0 - 1	4/28/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.075	ND(0.037)	ND(0.037)	0.075
MSSS-C06	0 - 1	1/14/2004	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	0.035 J [0.056]	0.014 J [0.032 J]	ND(0.036) [ND(0.036)]	0.049 [0.089]
MSSS-C08	0 - 1	1/12/2004	ND(12)	ND(12)	ND(12)	ND(12)	54	ND(12)	ND(12)	54
MSSS-C10	0 - 1	1/12/2004	ND(25)	ND(25)	ND(25)	ND(25)	140	ND(25)	ND(25)	140
MSSS-C12	0 - 1	1/12/2004	ND(1100)	ND(1100)	ND(1100)	ND(1100)	3000	ND(1100)	ND(1100)	3000
MSSS-C14	0 - 1	1/12/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	0.82	0.46	ND(0.24)	1.3

TABLE 3
MILL STREET AREA PCB SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Surface Soil Criterion			--	--	--	--	--	--	--	1
MSSS-C14N	0 - 1	4/19/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	0.86	ND(0.23)	ND(0.23)	0.86
MSSS-C16	0 - 1	1/12/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	0.77	0.63	ND(0.24)	1.4
MSSS-C17NE	0 - 1	4/19/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.5	ND(0.20)	ND(0.20)	1.5
MSSS-C18	0 - 1	1/12/2004	ND(0.30) [ND(0.21)]	ND(0.30) [ND(0.21)]	ND(0.30) [ND(0.21)]	ND(0.30) [ND(0.21)]	0.83 [1.0]	0.60 [0.79]	ND(0.30) [ND(0.21)]	1.4 [1.8]
MSSS-C18N	0 - 1	4/19/2004	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	8.6	ND(2.1)	ND(2.1)	8.6
MSSS-C20	0 - 1	1/12/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	0.75	0.46 P	ND(0.23)	1.2
MSSS-C20E	0 - 1	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.030 J	0.014 J	ND(0.033)	0.044
MSSS-C20N	0 - 1	4/19/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	13	ND(1.0)	ND(1.0)	13
MSSS-C20S	0 - 1	4/22/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
MSSS-D03	0 - 1	12/18/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.027 BJ	ND(0.045)	ND(0.045)	0.027 BJ
MSSS-D04	0 - 1	12/18/2003	ND(0.77)	ND(0.77)	ND(0.77)	ND(0.77)	1.9 B	ND(0.77)	ND(0.77)	1.9 B
MSSS-D04NE	0 - 1	4/28/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	2.1	ND(0.21)	ND(0.21)	2.1
MSSS-D04SW	0 - 1	4/28/2004	ND(0.88)	ND(0.88)	ND(0.88)	ND(0.88)	14	ND(0.88)	ND(0.88)	14
MSSS-D05	0 - 1	12/4/2003	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	3.0	3.6	ND(0.72)	6.5
MSSS-D06	0 - 1	12/4/2003	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	22	15 P	ND(3.7)	38
MSSS-D07	0 - 1	12/4/2003	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	49	31 P	ND(3.7)	80
MSSS-D08	0 - 1	12/4/2003	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	3.7	1.7 J	ND(2.0)	5.4
MSSS-D09	0 - 1	12/4/2003	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	1.9	1.2 P	ND(0.36)	3.1
MSSS-D10	0 - 1	12/4/2003	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	12	8.0	ND(3.7)	20
MSSS-D11	0 - 1	12/4/2003	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	1.2	0.70 P	ND(0.36)	1.9
MSSS-D13	0 - 1	12/4/2003	ND(0.71) [ND(0.71)]	ND(0.71) [ND(0.71)]	ND(0.71) [ND(0.71)]	ND(0.71) [ND(0.71)]	1.1 [1.2]	0.73 P [0.84 P]	ND(0.71) [ND(0.71)]	1.8 [2.1]
MSSS-D14	0 - 1	12/4/2003	ND(0.14)	ND(0.14)	ND(0.14)	ND(0.14)	0.48	0.24	ND(0.14)	0.72
MSSS-D15	0 - 1	12/4/2003	ND(360)	ND(360)	ND(360)	ND(360)	2800	1600 P	ND(360)	4400
MSSS-D17SW	0 - 1	4/22/2004	ND(0.18)	ND(0.18)	ND(0.18)	0.63	ND(0.18)	ND(0.18)	ND(0.18)	0.63
MSSS-E02	0 - 1	12/23/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.061 B	ND(0.039)	ND(0.039)	0.061 B
MSSS-E12	0 - 1	12/18/2003	ND(91)	ND(91)	ND(91)	ND(91)	1400 B	ND(91)	ND(91)	1400
MSSS-E14	0 - 1	12/18/2003	ND(180)	ND(180)	ND(180)	ND(180)	1500 B	ND(180)	ND(180)	1500
MSSS-E16	0 - 1	4/22/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.034	ND(0.034)	ND(0.034)	ND(0.034)	0.034
MSSS-F01	0 - 1	12/8/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.010 J	ND(0.036)	ND(0.036)	0.010 J
MSSS-F02	0 - 1	12/8/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.025 J	ND(0.035)	ND(0.035)	0.025 J
MSSS-F03	0 - 1	12/8/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.014 J	ND(0.037)	ND(0.037)	0.014 J
MSSS-F04	0 - 1	12/8/2003	ND(0.068)	ND(0.068)	ND(0.068)	ND(0.068)	0.38	ND(0.068)	ND(0.068)	0.38
MSSS-F06	0 - 1	12/8/2003	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	7.8	ND(0.72)	ND(0.72)	7.8
MSSS-F06SW	0 - 1	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	0.41	ND(0.033)	ND(0.033)	ND(0.033)	0.41
MSSS-F07SW	0 - 1	4/22/2004	ND(0.18)	ND(0.18)	ND(0.18)	1.7	ND(0.18)	ND(0.18)	ND(0.18)	1.7
MSSS-F08	0 - 1	12/18/2003	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	18 B	ND(1.8)	ND(1.8)	18
MSSS-F08SW	0 - 1	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
MSSS-F09	0 - 1	12/18/2003	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	17 B	ND(1.7)	ND(1.7)	17
MSSS-F09SW	0 - 1	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	0.016 J	ND(0.033)	ND(0.033)	ND(0.033)	0.016 J
MSSS-F10	0 - 1	12/18/2003	ND(3.5)	ND(3.5)	ND(3.5)	ND(3.5)	61 B	ND(3.5)	ND(3.5)	61
MSSS-F10SW	0 - 1	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
SF-04G-1SW	0 - 1	4/22/2004	ND(0.032)	ND(0.032)	ND(0.032)	ND(0.032)	ND(0.032)	ND(0.032)	ND(0.032)	ND(0.032)
SS-12E	0 - 1	4/22/2004	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	0.020 J [0.024 J]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	0.020 J [0.024 J]
SS-12S	0 - 1	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	0.046	ND(0.033)	ND(0.033)	ND(0.033)	0.046
SS-13NE	0 - 1	4/28/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	2.8	ND(0.20)	ND(0.20)	2.8
SS-13SE	0 - 1	4/28/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	1.3	ND(0.21)	ND(0.21)	1.3
SS-13SW	0 - 1	4/28/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.036	ND(0.035)	ND(0.035)	0.036

Notes:
1. Shaded sample results indicate samples containing PCBs at concentrations in excess of the Surface Soil Cleanup Level of 1 ppm.
2. Shaded sample IDs represent those samples proposed for inclusion in the delineation data set potentially subject to Tier II and Tier III validation.

MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
EB-07A	1 - 3	6/30/2004	ND(1300)	ND(1300)	ND(1300)	11000	ND(1300)	ND(1300)	ND(1300)	11000
	3 - 4	6/30/2004	ND(1200)	ND(1200)	ND(1200)	32000	ND(1200)	ND(1200)	ND(1200)	32000
EB-12	3 - 5	6/30/2004	ND(950)	ND(950)	ND(950)	40000	ND(950)	ND(950)	ND(950)	40000
	5 - 7	6/30/2004	ND(980)	ND(980)	ND(980)	10000	ND(980)	ND(980)	ND(980)	10000
	7 - 9	6/30/2004	ND(110)	ND(110)	ND(110)	5500	ND(110)	ND(110)	ND(110)	5500
	9 - 11	6/30/2004	ND(49)	ND(49)	ND(49)	330	ND(49)	ND(49)	ND(49)	330
	11 - 13	6/30/2004	ND(11)	ND(11)	ND(11)	180	ND(11)	ND(11)	ND(11)	180
	13 - 15	6/30/2004	ND(1.1)	ND(1.1)	ND(1.1)	8.7	ND(1.1)	ND(1.1)	ND(1.1)	8.7
	15 - 17	6/30/2004	ND(0.19)	ND(0.19)	ND(0.19)	1.1	ND(0.19)	ND(0.19)	ND(0.19)	1.1
	17 - 19	6/30/2004	ND(200)	ND(200)	ND(200)	2000	ND(200)	ND(200)	ND(200)	2000
	19 - 21	6/30/2004	ND(3.7)	ND(3.7)	ND(3.7)	33	ND(3.7)	ND(3.7)	ND(3.7)	33
	21 - 23	6/30/2004	ND(0.22)	ND(0.22)	ND(0.22)	0.90	ND(0.22)	ND(0.22)	ND(0.22)	0.90
EB-13	1 - 3	6/30/2004	ND(0.89)	ND(0.89)	ND(0.89)	5.2	ND(0.89)	ND(0.89)	ND(0.89)	5.2
	3 - 5	6/30/2004	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	21	ND(1.2)	ND(1.2)	21
	9 - 11	6/30/2004	ND(0.23) [ND(0.27)]	ND(0.23) [ND(0.27)]	ND(0.23) [ND(0.27)]	1.2 [0.93]	ND(0.23) [ND(0.27)]	ND(0.23) [ND(0.27)]	ND(0.23) [ND(0.27)]	1.2 [0.93]
	11 - 13	6/30/2004	ND(0.32)	ND(0.32)	ND(0.32)	0.85	ND(0.32)	ND(0.32)	ND(0.32)	0.85
	13 - 15	6/30/2004	ND(0.28)	ND(0.28)	ND(0.28)	0.85	ND(0.28)	ND(0.28)	ND(0.28)	0.85
	16.5 - 18.5	6/30/2004	ND(0.30)	ND(0.30)	ND(0.30)	0.85	ND(0.30)	ND(0.30)	ND(0.30)	0.85
EB-13S	1 - 3	4/22/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.029 J	ND(0.034)	ND(0.034)	0.029 J
	3 - 5	4/22/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	5 - 7	4/22/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	7 - 9	4/22/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	9 - 11	4/22/2004	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
	11 - 13	4/22/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.0092 J	ND(0.037)	ND(0.037)	ND(0.037)
	13 - 15	4/22/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	15 - 16.5	4/22/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	16.5 - 18.5	4/22/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
EB-13W	1 - 3	7/27/2004	ND(0.46)	ND(0.46)	ND(0.46)	ND(0.46)	11	ND(0.46)	ND(0.46)	11
	3 - 5	7/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.16	0.064	ND(0.034)	0.23
	5 - 7	7/27/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.030 J	0.015 J	ND(0.033)	0.045
	7 - 9	7/27/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.026 J	0.011 J	ND(0.034)	0.037
	9 - 11	7/27/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.040	0.021 J	ND(0.040)	0.061
	11 - 13	7/27/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.028 J	0.013 J	ND(0.040)	0.040
	13 - 15	7/27/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.071	0.036 J	ND(0.040)	0.11
	15 - 17	7/27/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.13	0.075	ND(0.041)	0.21
	17 - 18.5	7/27/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.28	0.15	ND(0.041)	0.44
EB-14	6 - 8	6/30/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	0.50	ND(0.24)	ND(0.24)	0.50
EB-14SW	1 - 3	7/21/2004	ND(23)	ND(23)	ND(23)	ND(23)	89	ND(23)	ND(23)	89
	3 - 5	7/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.014 J	ND(0.035)	ND(0.035)	0.014 J
	5 - 6	7/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.0096 J	ND(0.034)	ND(0.034)	0.0096 J
	6 - 8	7/21/2004	0.13	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.13
EB-21C	4 - 6	7/1/2004	ND(0.50)	ND(0.50)	ND(0.50)	5.3	ND(0.50)	ND(0.50)	ND(0.50)	5.3
	6 - 8	7/1/2004	ND(0.98)	ND(0.98)	ND(0.98)	8.4	ND(0.98)	ND(0.98)	ND(0.98)	8.4
	10 - 12	7/1/2004	ND(0.54)	ND(0.54)	ND(0.54)	2.9	ND(0.54)	ND(0.54)	ND(0.54)	2.9
	14 - 16	7/1/2004	ND(0.19)	ND(0.19)	ND(0.19)	1.0	ND(0.19)	ND(0.19)	ND(0.19)	1.0
	16 - 18	7/1/2004	ND(0.21)	ND(0.21)	ND(0.21)	0.98	ND(0.21)	ND(0.21)	ND(0.21)	0.98
	18 - 20	7/1/2004	ND(0.28)	ND(0.28)	ND(0.28)	2.2	ND(0.28)	ND(0.28)	ND(0.28)	2.2
	20 - 22	7/1/2004	ND(0.24)	ND(0.24)	ND(0.24)	0.61	ND(0.24)	ND(0.24)	ND(0.24)	0.61
MSMW-22A	10 - 11	1/14/2004	ND(0.043)	ND(0.043)	ND(0.043)	0.013 J	ND(0.043)	ND(0.043)	ND(0.043)	0.013 J
	13 - 15	1/27/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.068	ND(0.036)	ND(0.036)	ND(0.036)	0.068 B
	15 - 17	1/27/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.11	ND(0.037)	ND(0.037)	ND(0.037)	0.11 B
	17 - 19	1/27/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.070	ND(0.036)	ND(0.036)	ND(0.036)	0.070 B

TABLE 4
MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSMW-22B	3 - 4	1/28/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.071)	ND(0.035)	ND(0.035)	ND(0.071)
	4 - 6	1/28/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.48 B	ND(0.041)	ND(0.041)	0.48 B
	6 - 8	1/28/2004	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	1.8	ND(0.27)	ND(0.27)	1.8
	8 - 10	1/28/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.057 B	ND(0.035)	ND(0.035)	0.057 B
MSMW-23A	17 - 19	1/22/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.018 J	ND(0.037)	ND(0.037)	0.018 J
	19 - 21	1/22/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.017 J	ND(0.038)	ND(0.038)	0.017 J
	21 - 23	1/22/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.031 J	ND(0.039)	ND(0.039)	0.031 J
MSMW-23B	9 - 11	1/26/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.063	ND(0.039)	ND(0.039)	0.063
	11 - 13	1/26/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	13 - 15	1/26/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.022 J	ND(0.038)	ND(0.038)	0.022 J
MSMW-23C	1 - 3	1/20/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.017 J	ND(0.034)	ND(0.034)	0.017 J
	3 - 5	1/20/2004	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]
	5 - 7	1/20/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.010 J	ND(0.038)	ND(0.038)	0.010 J
	7 - 9	1/20/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	15 - 17	1/20/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.061	ND(0.038)	ND(0.038)	0.061
MSMW-24A	17 - 19	1/6/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.53	ND(0.037)	ND(0.037)	0.53
	19 - 21	1/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.057	ND(0.036)	ND(0.036)	0.057
	21 - 23	1/6/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.084	ND(0.035)	ND(0.035)	0.084
MSMW-24B	1 - 3	1/7/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.12	ND(0.038)	ND(0.038)	0.12
	9 - 11	1/7/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	11 - 13	1/7/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	13 - 15	1/8/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
MSMW-24C	3 - 5	1/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.084	ND(0.038)	ND(0.038)	0.084
	5 - 7	1/5/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.060	ND(0.036)	ND(0.036)	0.060
	7 - 9	1/5/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.041	ND(0.036)	ND(0.036)	0.041
	15 - 17	1/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.058	ND(0.038)	ND(0.038)	0.058
MSSB-B01	9 - 11	2/18/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	11 - 13	2/18/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.14	ND(0.037)	0.025 J	ND(0.037)	0.16
	13 - 15	2/18/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.046	ND(0.036)	ND(0.036)	ND(0.036)	0.046
	21 - 23	2/18/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.045	ND(0.038)	ND(0.038)	ND(0.038)	0.045
	23 - 25	2/18/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.013 J	ND(0.037)	ND(0.037)	ND(0.037)	0.013 J
	25 - 27	2/18/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.012 J	ND(0.034)	ND(0.034)	ND(0.034)	0.012 J
MSSB-B06	15 - 17	8/5/2004	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	0.056 B [0.036 BJ]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	0.056 B [0.036 BJ]
	17 - 19	8/5/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.032 BJ	ND(0.040)	ND(0.040)	0.032 BJ
	19 - 21	8/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.16 B	ND(0.038)	ND(0.038)	0.16 B
	21 - 23	8/5/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.017 BJ	ND(0.039)	ND(0.039)	0.017 BJ
	23 - 23.5	8/5/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.012 BJ	ND(0.039)	ND(0.039)	0.012 BJ
MSSB-B07	1 - 3	2/18/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.076	0.025 J	ND(0.035)	0.10
	3 - 5	2/18/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.11	0.065	ND(0.034)	0.18
	5 - 7	2/18/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.046 P	ND(0.034)	ND(0.034)	ND(0.034)	0.046
	7 - 9	2/18/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	9 - 11	2/18/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	11 - 13	2/18/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	13 - 15	2/18/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	15 - 17	2/18/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	17 - 19	2/18/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.041	ND(0.037)	ND(0.037)	ND(0.037)	0.041
	19 - 21	2/18/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.014 J	ND(0.035)	ND(0.035)	ND(0.035)	0.014 J
	21 - 23	2/18/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.031 J	ND(0.036)	ND(0.036)	ND(0.036)	0.031 J
	23 - 25	2/18/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.076	ND(0.039)	ND(0.039)	ND(0.039)	0.076
	25 - 27	2/18/2004	ND(0.043)	ND(0.043)	ND(0.043)	0.016 J	ND(0.043)	ND(0.043)	ND(0.043)	0.016 J
	27 - 28	2/18/2004	ND(0.043)	ND(0.043)	ND(0.043)	0.045	ND(0.043)	ND(0.043)	ND(0.043)	0.045

MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			- -	- -	- -	- -	- -	- -	- -	1
MSSB-B09	1 - 3	2/19/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	3 - 5	2/19/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	5 - 7	2/19/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.071 P	ND(0.036)	0.014 JP	ND(0.036)	0.084
	7 - 9	2/19/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	9 - 11	2/19/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	11 - 13	2/19/2004	ND(0.036) [ND(0.035)]	ND(0.036) [ND(0.035)]	ND(0.036) [ND(0.035)]	ND(0.036) [ND(0.035)]	ND(0.036) [ND(0.035)]	ND(0.036) [ND(0.035)]	ND(0.036) [ND(0.035)]	ND(0.036) [ND(0.035)]
	13 - 14	2/19/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
MSSB-B10	1 - 3	8/5/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.11	0.034	ND(0.034)	0.14
	3 - 5	8/5/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	5 - 7	8/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.031 J	0.019 J	ND(0.038)	0.050
MSSB-B11	1 - 3	2/18/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.32	0.14	ND(0.035)	0.46
	3 - 5	2/18/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	5 - 7	2/18/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.013 J	ND(0.036)	ND(0.036)	ND(0.036)	0.013 J
	7 - 9	2/18/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	9 - 11	2/18/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.045 P	ND(0.038)	ND(0.038)	ND(0.038)	0.045
	11 - 13	2/18/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	13 - 15	2/18/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	15 - 17	2/18/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.064	ND(0.036)	ND(0.036)	ND(0.036)	0.064
	17 - 19	2/18/2004	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	0.30 [0.32]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	0.30 [0.32]
	19 - 21	2/18/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.40	ND(0.040)	ND(0.040)	ND(0.040)	0.40
	21 - 23	2/18/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.14	ND(0.039)	ND(0.039)	ND(0.039)	0.14
	23 - 25	2/18/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.093	ND(0.040)	ND(0.040)	ND(0.040)	0.093
	25 - 27	2/18/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.14	ND(0.038)	ND(0.038)	ND(0.038)	0.14
	27 - 28	2/18/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.15	ND(0.035)	ND(0.035)	ND(0.035)	0.15
MSSB-B12	7 - 9	8/5/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	9 - 11	8/5/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.021 BJ	ND(0.041)	ND(0.041)	0.021 BJ
	11 - 13	8/5/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	13 - 15	8/5/2004	ND(0.25)	ND(0.25)	ND(0.25)	0.97	ND(0.25)	ND(0.25)	ND(0.25)	0.97
	15 - 17	8/5/2004	ND(0.26)	ND(0.26)	ND(0.26)	5.4	ND(0.26)	ND(0.26)	ND(0.26)	5.4
	17 - 19	8/5/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.14	ND(0.040)	ND(0.040)	ND(0.040)	0.14 B
	19 - 21	8/5/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.14 B	ND(0.037)	ND(0.037)	0.14 B
	21 - 23	8/5/2004	ND(0.22)	ND(0.22)	ND(0.22)	0.54	ND(0.22)	ND(0.22)	ND(0.22)	0.54
MSSB-B13	1 - 3	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.034 J	ND(0.036)	ND(0.036)	ND(0.036)	0.034 J
	3 - 5	2/12/2004	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	0.053 [0.055]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	0.053 [0.055]
	5 - 7	2/12/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	7 - 9	2/12/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.13	ND(0.039)	ND(0.039)	ND(0.039)	0.13
	9 - 11	2/12/2004	ND(0.26)	ND(0.26)	ND(0.26)	2.2	ND(0.26)	ND(0.26)	ND(0.26)	2.2
	11 - 13	2/12/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.13	ND(0.038)	ND(0.038)	ND(0.038)	0.13
	13 - 15	2/12/2004	0.90	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	0.90
	15 - 17	2/12/2004	0.36	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.36
	17 - 19	2/12/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.054	ND(0.035)	ND(0.035)	ND(0.035)	0.054
	19 - 21	2/12/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.60	ND(0.038)	ND(0.038)	ND(0.038)	0.60
	21 - 21.6	2/12/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.13	ND(0.037)	ND(0.037)	ND(0.037)	0.13
MSSB-B15	1 - 3	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.089	ND(0.036)	ND(0.036)	ND(0.036)	0.089
	3 - 5	2/12/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.18	ND(0.034)	ND(0.034)	ND(0.034)	0.18
	5 - 7	2/12/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.056	ND(0.035)	ND(0.035)	ND(0.035)	0.056
	7 - 9	2/12/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.26	ND(0.040)	ND(0.040)	ND(0.040)	0.26
	9 - 11	2/12/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.032 J	ND(0.035)	ND(0.035)	ND(0.035)	0.032 J
	11 - 13	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.086	ND(0.036)	ND(0.036)	ND(0.036)	0.086
	13 - 15	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.077	ND(0.036)	ND(0.036)	ND(0.036)	0.077
	15 - 17	2/12/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.058	ND(0.037)	ND(0.037)	ND(0.037)	0.058
	17 - 19	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.035 J	ND(0.036)	ND(0.036)	ND(0.036)	0.035 J
	19 - 21	2/12/2004	ND(0.042)	ND(0.042)	ND(0.042)	0.11	ND(0.042)	ND(0.042)	ND(0.042)	0.11
	21 - 21.3	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.32	ND(0.036)	ND(0.036)	ND(0.036)	0.32

TABLE 4
MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-B17	1 - 3	2/12/2004	ND(0.36)	ND(0.36)	ND(0.36)	2.0	ND(0.36)	ND(0.36)	ND(0.36)	2.0
	3 - 5	2/12/2004	ND(0.24)	ND(0.24)	ND(0.24)	2.7	ND(0.24)	ND(0.24)	ND(0.24)	2.7
	5 - 7	2/12/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.088	ND(0.039)	ND(0.039)	ND(0.039)	0.088
	7 - 9	2/12/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.34	ND(0.038)	ND(0.038)	ND(0.038)	0.34
	9 - 11	2/12/2004	ND(0.049)	ND(0.049)	ND(0.049)	0.098	ND(0.049)	ND(0.049)	ND(0.049)	0.098
	11 - 13	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.27	ND(0.036)	ND(0.036)	ND(0.036)	0.27
	13 - 15	2/12/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.062	ND(0.038)	ND(0.038)	ND(0.038)	0.062
	15 - 17	2/12/2004	ND(0.052)	ND(0.052)	ND(0.052)	0.078	ND(0.052)	ND(0.052)	ND(0.052)	0.078
	17 - 19	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.038	ND(0.036)	ND(0.036)	ND(0.036)	0.038
	19 - 19.6	2/12/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.044	ND(0.035)	ND(0.035)	ND(0.035)	0.044
MSSB-B17N	1 - 2	7/9/2004	ND(0.034) [ND(0.033)]	ND(0.034) [ND(0.033)]	ND(0.034) [ND(0.033)]	ND(0.034) [ND(0.033)]	0.026 J [0.022 J]	ND(0.034) [ND(0.033)]	ND(0.034) [ND(0.033)]	0.026 J [0.022 J]
MSSB-B18	1 - 2	7/7/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.042	ND(0.034)	ND(0.034)	ND(0.034)	0.042 B
MSSB-B19	1 - 2	7/7/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.011 BJP	ND(0.035)	ND(0.035)	0.011 BJ
MSSB-B20	1 - 2	7/7/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
MSSB-B21	1 - 2	7/7/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.043 B	ND(0.033)	ND(0.033)	0.043 B
MSSB-C01	1 - 3	1/13/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.089	ND(0.036)	ND(0.036)	0.089
	3 - 5	1/13/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.078	ND(0.034)	ND(0.034)	ND(0.034)	0.078
	5 - 7	1/13/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.031 J	ND(0.034)	ND(0.034)	ND(0.034)	0.031 J
	7 - 9	1/13/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.033 J	ND(0.034)	0.018 J	ND(0.034)	0.050
	9 - 11	1/13/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.068	ND(0.040)	ND(0.040)	0.068
	11 - 13	1/13/2004	ND(0.57)	ND(0.57)	ND(0.57)	ND(0.57)	2.5	1.9	ND(0.57)	4.4
	13 - 15	1/13/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.038	ND(0.037)	ND(0.037)	ND(0.037)	0.038
	15 - 17	1/13/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.087	ND(0.037)	0.047	ND(0.037)	0.13
	17 - 19	1/13/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.030 J	ND(0.036)	ND(0.036)	ND(0.036)	0.030 J
	19 - 21	1/13/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.031 J	ND(0.035)	ND(0.035)	0.031 J
	21 - 23	1/13/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.019 J	ND(0.037)	ND(0.037)	0.019 J
	23 - 25	1/13/2004	ND(2.2)	ND(2.2)	ND(2.2)	6.2	ND(2.2)	3.4	ND(2.2)	9.6
	25 - 27	1/13/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.12	ND(0.037)	0.062	ND(0.037)	0.18
	27 - 29	1/13/2004	ND(0.22)	ND(0.22)	ND(0.22)	0.29	ND(0.22)	0.20 J	ND(0.22)	0.49
	29 - 31	1/13/2004	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	0.018 J [0.045]	ND(0.039) [ND(0.039)]	ND(0.039) [0.022 J]	ND(0.039) [ND(0.039)]	0.018 J [0.067]
	31 - 33	1/13/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.029 J	ND(0.040)	ND(0.040)	ND(0.040)	0.029 J
	33 - 35	1/13/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.042	ND(0.039)	0.024 J	ND(0.039)	0.067
	35 - 36.5	1/13/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.036	ND(0.036)	0.020 J	ND(0.036)	0.056
MSSB-C03	1 - 3	1/20/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.055	0.044	ND(0.036)	0.099
	3 - 5	1/20/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.021 J	ND(0.034)	ND(0.034)	ND(0.034)	0.021 J
	5 - 7	1/20/2004	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]
	7 - 9	1/20/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.049	ND(0.034)	0.020 J	ND(0.034)	0.068
	9 - 11	1/20/2004	ND(0.041)	ND(0.041)	ND(0.041)	0.012 J	ND(0.041)	ND(0.041)	ND(0.041)	0.012 J
	11 - 13	1/20/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.023 J	ND(0.040)	ND(0.040)	ND(0.040)	0.023 J
	13 - 15	1/20/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.016 J	ND(0.038)	ND(0.038)	ND(0.038)	0.016 J
	15 - 17	1/20/2004	ND(0.041)	ND(0.041)	ND(0.041)	0.016 J	ND(0.041)	ND(0.041)	ND(0.041)	0.016 J
	17 - 19	1/20/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.016 J	ND(0.038)	ND(0.038)	ND(0.038)	0.016 J
	19 - 21	1/20/2004	ND(0.041)	ND(0.041)	ND(0.041)	0.026 J	ND(0.041)	ND(0.041)	ND(0.041)	0.026 J
	21 - 23	1/20/2004	ND(0.042)	ND(0.042)	ND(0.042)	0.018 J	ND(0.042)	ND(0.042)	ND(0.042)	0.018 J
	23 - 25	1/20/2004	ND(0.042)	ND(0.042)	ND(0.042)	0.028 JP	ND(0.042)	ND(0.042)	ND(0.042)	0.028 J
	25 - 27	1/20/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.015 J	ND(0.039)	ND(0.039)	ND(0.039)	0.015 J
	27 - 27.4	1/20/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.014 J	ND(0.039)	ND(0.039)	ND(0.039)	0.014 J

MILL STREET AREA PC[illegible]B-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-C05	1 - 3	1/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.022 J	ND(0.036)	ND(0.036)	0.022 J
	3 - 5	1/6/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.012 J	ND(0.039)	ND(0.039)	0.012 J
	5 - 7	1/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.016 J	0.011 J	ND(0.036)	0.027 J
	7 - 9	1/6/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.015 J	ND(0.037)	ND(0.037)	0.015 J
	9 - 11	1/6/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.15	0.12	ND(0.043)	0.28
	11 - 13	1/6/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.021 J	ND(0.040)	ND(0.040)	0.021 J
	13 - 15	1/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.018 J	ND(0.036)	ND(0.036)	0.018 J
	15 - 17	1/6/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.031 J	ND(0.038)	ND(0.038)	0.031 J
	17 - 19	1/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.022 J	0.020 J	ND(0.036)	0.042
	19 - 21	1/6/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.034 J	0.028 J	ND(0.039)	0.062
	21 - 23	1/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.027 J	ND(0.036)	ND(0.036)	ND(0.036)	0.027 J
	23 - 23.4	1/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.021 JP	ND(0.036)	ND(0.036)	ND(0.036)	0.021 J
MSSB-C06	1 - 3	2/16/2004	ND(300)	ND(300)	ND(300)	ND(300)	1500	ND(300)	ND(300)	1500
	3 - 5	2/16/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.76	ND(0.035)	ND(0.035)	0.76
	5 - 7	2/16/2004	ND(0.035) [ND(0.036)]	ND(0.035) [ND(0.036)]	ND(0.035) [ND(0.036)]	ND(0.035) [ND(0.036)]	0.10 [0.14]	ND(0.035) [ND(0.036)]	ND(0.035) [ND(0.036)]	0.10 [0.14]
	7 - 9	2/16/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.12	ND(0.040)	ND(0.040)	0.12
	9 - 11	2/16/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	11 - 13	2/16/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.42	ND(0.037)	ND(0.037)	ND(0.037)	0.42
	13 - 15	2/16/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.024 J	ND(0.037)	ND(0.037)	0.024 J
	15 - 17	2/16/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.095	ND(0.035)	ND(0.035)	ND(0.035)	0.095
	17 - 19	2/16/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.073	ND(0.038)	ND(0.038)	ND(0.038)	0.073
	19 - 21	2/16/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.19	ND(0.037)	ND(0.037)	ND(0.037)	0.19
	21 - 22.5	2/16/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.16	ND(0.036)	ND(0.036)	ND(0.036)	0.16
MSSB-C06N	1 - 3	7/9/2004	ND(0.66)	ND(0.66)	ND(0.66)	ND(0.66)	9.6	ND(0.66)	ND(0.66)	9.6
	3 - 5	7/9/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.038	ND(0.033)	ND(0.033)	0.038
MSSB-C07	1 - 3	1/6/2004	ND(1200)	ND(1200)	ND(1200)	ND(1200)	12000 B	ND(1200)	ND(1200)	12000 B
	3 - 5	1/6/2004	ND(7.0)	ND(7.0)	ND(7.0)	ND(7.0)	13	ND(7.0)	ND(7.0)	13
	5 - 7	1/6/2004	ND(35)	ND(35)	ND(35)	ND(35)	320	ND(35)	ND(35)	320
	7 - 9	1/6/2004	ND(200)	ND(200)	ND(200)	ND(200)	420 B	ND(200)	ND(200)	420 B
	9 - 11	1/6/2004	ND(930)	ND(930)	ND(930)	3600	ND(930)	ND(930)	ND(930)	3600 B
	11 - 13	1/6/2004	ND(1100)	ND(1100)	ND(1100)	8800	ND(1100)	ND(1100)	ND(1100)	8800 B
	13 - 15	1/6/2004	ND(5100)	ND(5100)	ND(5100)	25000	ND(5100)	ND(5100)	ND(5100)	25000 B
	15 - 17	1/6/2004	ND(1000)	ND(1000)	ND(1000)	9400	ND(1000)	ND(1000)	ND(1000)	9400 B
	17 - 19	1/6/2004	ND(7.5)	ND(7.5)	ND(7.5)	13	ND(7.5)	ND(7.5)	ND(7.5)	13
	19 - 21	1/6/2004	ND(38)	ND(38)	ND(38)	290	ND(38)	ND(38)	ND(38)	290
	21 - 21.4	1/6/2004	ND(6.7)	ND(6.7)	ND(6.7)	13	ND(6.7)	ND(6.7)	ND(6.7)	13
MSSB-C07E	1 - 3	7/12/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.28 P	ND(0.034)	ND(0.034)	0.28
	3 - 5	7/12/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.086	ND(0.033)	ND(0.033)	0.086
	5 - 7	7/12/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.17 P	ND(0.033)	ND(0.033)	0.17
	7 - 9	7/12/2004	ND(0.037) [ND(72)]	ND(0.037) [ND(72)]	ND(0.037) [ND(72)]	ND(0.037) [ND(72)]	0.034 JP [230]	ND(0.037) [63 J]	ND(0.037) [ND(72)]	0.034 J [290]
	9 - 11	7/12/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.054	ND(0.037)	ND(0.037)	0.054
	11 - 13	7/12/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.019 J	ND(0.037)	ND(0.037)	0.019 J
	13 - 15	7/12/2004	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
	15 - 17	7/12/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	17 - 19	7/12/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	19 - 21	7/12/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.040	ND(0.039)	ND(0.039)	ND(0.039)	0.040
	21 - 22.7	7/12/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.033 J	ND(0.034)	ND(0.034)	ND(0.034)	0.033 J
MSSB-C07E RE	7 - 9	7/12/2004	ND(0.037) [ND(0.035)]	ND(0.037) [ND(0.035)]	ND(0.037) [ND(0.035)]	ND(0.037) [ND(0.035)]	0.031 J [0.041]	0.013 J [0.016 J]	ND(0.037) [ND(0.035)]	0.044 [0.057]

TABLE 4
MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-C07NW	3 - 5	7/8/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.020 J	ND(0.035)	ND(0.035)	0.020 J
	5 - 7	7/8/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.30	0.16	ND(0.035)	0.47
	7 - 9	7/8/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	9 - 11	7/8/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	11 - 13	7/8/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	13 - 15	7/8/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.017 J	ND(0.036)	ND(0.036)	0.017 J
	15 - 17	7/8/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	17 - 19	7/8/2004	ND(4.2)	ND(4.2)	ND(4.2)	ND(4.2)	ND(4.2)	28	ND(4.2)	28
	19 - 21	7/8/2004	ND(5.7)	ND(5.7)	ND(5.7)	ND(5.7)	ND(5.7)	39	ND(5.7)	39
	21 - 23	7/8/2004	ND(4.4)	ND(4.4)	ND(4.4)	ND(4.4)	ND(4.4)	30	ND(4.4)	30
	23 - 25	7/8/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.016 JP	ND(0.039)	ND(0.039)	0.016 J
	25 - 27	7/8/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.053	ND(0.037)	ND(0.037)	0.053
	27 - 27.5	7/8/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
MSSB-C07W	1 - 3	7/28/2004	ND(12)	ND(12)	ND(12)	ND(12)	56	ND(12)	ND(12)	56
	3 - 5	7/28/2004	ND(13)	ND(13)	ND(13)	ND(13)	84	ND(13)	ND(13)	84
	5 - 7	7/28/2004	ND(0.21) [ND(0.20)]	ND(0.21) [ND(0.20)]	ND(0.21) [ND(0.20)]	ND(0.21) [ND(0.20)]	0.098 JP [0.13 JP]	ND(0.21) [ND(0.20)]	ND(0.21) [ND(0.20)]	0.098 J [0.13 J]
	7 - 9	7/28/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	3.0	ND(0.25)	ND(0.25)	3.0
	9 - 11	7/28/2004	1.1	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	1.1
	11 - 13	7/28/2004	0.71	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	0.71
	13 - 15	7/28/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	15 - 17	7/28/2004	0.68	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	0.68
	17 - 19	7/28/2004	0.56	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	0.56
	19 - 21	7/28/2004	0.36	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	0.36
MSSB-C08	1 - 3	2/16/2004	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	2.0	ND(0.28)	ND(0.28)	2.0
	3 - 5	2/16/2004	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)	45	ND(5.1)	ND(5.1)	45
	5 - 7	2/16/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	2.4	ND(0.21)	ND(0.21)	2.4
	7 - 9	2/16/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.064	ND(0.038)	ND(0.038)	ND(0.038)	0.064
	9 - 11	2/16/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.12	ND(0.038)	ND(0.038)	ND(0.038)	0.12
	11 - 13	2/16/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.034 J	ND(0.039)	ND(0.039)	ND(0.039)	0.034 J
	13 - 15	2/16/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.12	ND(0.039)	ND(0.039)	ND(0.039)	0.12
	15 - 17	2/16/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.22	ND(0.037)	ND(0.037)	ND(0.037)	0.22
	17 - 19	2/16/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.074	ND(0.037)	ND(0.037)	ND(0.037)	0.074
	19 - 20	2/16/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.086	ND(0.038)	ND(0.038)	ND(0.038)	0.086
MSSB-C08N	3 - 5	7/8/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.011 JP	ND(0.034)	ND(0.034)	ND(0.034)	0.011 J
	5 - 7	7/8/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.011 J	ND(0.035)	ND(0.035)	ND(0.035)	0.011 J
	7 - 9	7/8/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.011 J	ND(0.035)	ND(0.035)	ND(0.035)	0.011 J
	9 - 11	7/8/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	11 - 13	7/8/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.035 J	ND(0.037)	ND(0.037)	0.035 J
	13 - 15	7/8/2004	ND(0.038) [ND(0.037)]	ND(0.038) [ND(0.037)]	ND(0.038) [ND(0.037)]	ND(0.038) [0.011 J]	0.011 J [ND(0.037)]	ND(0.038) [ND(0.037)]	ND(0.038) [ND(0.037)]	0.011 J [0.011 J]
	15 - 17	7/8/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.10	ND(0.039)	ND(0.039)	ND(0.039)	0.10
	17 - 19	7/8/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.20	ND(0.036)	ND(0.036)	ND(0.036)	0.20
	19 - 21	7/8/2004	ND(0.042)	ND(0.042)	ND(0.042)	0.17	ND(0.042)	ND(0.042)	ND(0.042)	0.17
	21 - 23	7/8/2004	ND(0.044)	ND(0.044)	ND(0.044)	0.15	ND(0.044)	ND(0.044)	ND(0.044)	0.15
MSSB-C09	1 - 3	1/13/2004	ND(5.1) [ND(5.1)]	ND(5.1) [ND(5.1)]	ND(5.1) [ND(5.1)]	ND(5.1) [ND(5.1)]	29 [30]	ND(5.1) [ND(5.1)]	ND(5.1) [ND(5.1)]	29 [30]
	11 - 13	1/13/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.087	ND(0.041)	ND(0.041)	0.087
	19 - 21	1/13/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.017 J	ND(0.037)	ND(0.037)	0.017 J
MSSB-C10	1 - 3	7/21/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	1.2	ND(0.23)	ND(0.23)	1.2
	3 - 5	7/21/2004	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	8.2	ND(0.42)	ND(0.42)	8.2
	5 - 7	7/21/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	5.9	ND(0.24)	ND(0.24)	5.9
	7 - 8	7/21/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	4.9	ND(0.24)	ND(0.24)	4.9
	8 - 10	7/21/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.086	ND(0.039)	ND(0.039)	0.086

MILL STREET AREA PCB ... -SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-C10NE	1 - 3	7/13/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.38	ND(0.036)	ND(0.036)	0.38
	3 - 5	7/13/2004	ND(170)	ND(170)	ND(170)	ND(170)	430	460	ND(170)	880
	5 - 7	7/13/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.031 J	ND(0.037)	ND(0.037)	0.031 J
	7 - 9	7/13/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.034 J	ND(0.036)	ND(0.036)	0.034 J
	9 - 11	7/13/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	11 - 13	7/13/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.011 J	ND(0.034)	ND(0.034)	0.011 J
	13 - 15	7/13/2004	*ND(0.036)*	*ND(0.036)*	*ND(0.036)*	*ND(0.036)*	*0.15*	*0.077*	*ND(0.036)*	*0.22*
MSSB-C11	1 - 3	1/8/2004	ND(37)	ND(37)	ND(37)	ND(37)	110	ND(37)	ND(37)	110 B
	3 - 5	1/8/2004	ND(200) [ND(170)]	ND(200) [ND(170)]	ND(200) [ND(170)]	ND(200) [ND(170)]	1100 [790]	ND(200) [ND(170)]	ND(200) [ND(170)]	1100 B [790 B]
	5 - 7	1/8/2004	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	2.1	ND(0.37)	ND(0.37)	2.1 B
	7 - 9	1/8/2004	ND(0.15)	ND(0.15)	ND(0.15)	ND(0.15)	0.42	ND(0.15)	ND(0.15)	0.42 B
	9 - 11	1/8/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.10	ND(0.038)	ND(0.038)	0.10 B
	11 - 13	1/8/2004	ND(0.76)	ND(0.76)	ND(0.76)	ND(0.76)	3.7	ND(0.76)	ND(0.76)	3.7 B
	13 - 15	1/8/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.45	ND(0.041)	ND(0.041)	0.45 B
	15 - 17	1/8/2004	ND(0.081)	ND(0.081)	ND(0.081)	ND(0.081)	0.42	ND(0.081)	ND(0.081)	0.42 B
	17 - 19	1/8/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.31	ND(0.040)	ND(0.040)	0.31 B
	19 - 21	1/8/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.18 B	ND(0.036)	0.087 B	ND(0.036)	0.26 B
MSSB-C11N	3 - 5	7/7/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	5 - 7	7/7/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	7 - 9	7/7/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.018 J	ND(0.034)	ND(0.034)	0.018 J
	9 - 11	7/7/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.12	ND(0.035)	ND(0.035)	0.12
	11 - 13	7/7/2004	*ND(0.22)*	*ND(0.22)*	*ND(0.22)*	*ND(0.22)*	*0.38*	*ND(0.22)*	*ND(0.22)*	*0.38*
	13 - 15	7/7/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.027 JP	ND(0.040)	ND(0.040)	ND(0.040)	0.027 J
	15 - 17	7/7/2004	ND(0.25)	ND(0.25)	ND(0.25)	0.57	ND(0.25)	ND(0.25)	ND(0.25)	0.57
	17 - 19	7/7/2004	ND(0.25) [ND(0.22)]	ND(0.25) [ND(0.22)]	ND(0.25) [ND(0.22)]	ND(0.25) [ND(0.22)]	0.67 [0.37]	ND(0.25) [ND(0.22)]	ND(0.25) [ND(0.22)]	0.67 [0.37]
	19 - 21	7/7/2004	ND(0.26)	ND(0.26)	ND(0.26)	0.48	ND(0.26)	ND(0.26)	ND(0.26)	0.48
	21 - 23	7/7/2004	ND(0.25)	ND(0.25)	ND(0.25)	0.38	ND(0.25)	ND(0.25)	ND(0.25)	0.38
	23 - 23.8	7/7/2004	ND(0.25)	ND(0.25)	ND(0.25)	0.35	ND(0.25)	ND(0.25)	ND(0.25)	0.35
MSSB-C11W	1 - 3	7/22/2004	ND(980)	ND(980)	ND(980)	ND(980)	2100	ND(980)	ND(980)	2100
	3 - 5	7/22/2004	ND(13)	ND(13)	ND(13)	ND(13)	36	ND(13)	ND(13)	36
	5 - 7	7/22/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	1.4	ND(0.21)	ND(0.21)	1.4
	7 - 9	7/22/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	1.5	ND(0.25)	ND(0.25)	1.5
	9 - 11	7/22/2004	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	2.1	ND(0.27)	ND(0.27)	2.1
	11 - 13	7/22/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	13 - 15	7/22/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
MSSB-C12	1 - 3	2/12/2004	ND(290)	ND(290)	ND(290)	ND(290)	6700	ND(290)	ND(290)	6700 B
	3 - 5	2/12/2004	ND(530)	ND(530)	ND(530)	ND(530)	12000	ND(530)	ND(530)	12000 B
	5 - 7	2/12/2004	ND(130)	ND(130)	ND(130)	4700	ND(130)	ND(130)	ND(130)	4700
	7 - 9	2/12/2004	ND(210)	ND(210)	ND(210)	2900	ND(210)	ND(210)	ND(210)	2900
	9 - 11	2/12/2004	ND(110) [ND(100)]	ND(110) [ND(100)]	ND(110) [ND(100)]	2600 [1900]	ND(110) [ND(100)]	ND(110) [ND(100)]	ND(110) [ND(100)]	2600 [1900]
	11 - 13	2/12/2004	ND(260)	ND(260)	ND(260)	5700	ND(260)	ND(260)	ND(260)	5700
	13 - 15	2/12/2004	ND(3.2)	ND(3.2)	ND(3.2)	33	ND(3.2)	ND(3.2)	ND(3.2)	33
	15 - 17	2/12/2004	ND(12)	ND(12)	ND(12)	110	ND(12)	ND(12)	ND(12)	110
	17 - 19	2/12/2004	ND(44)	ND(44)	ND(44)	1400	ND(44)	ND(44)	ND(44)	1400
	19 - 19.8	2/12/2004	ND(120)	ND(120)	ND(120)	1300	ND(120)	ND(120)	ND(120)	1300

TABLE 4
MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-C12N	3 - 5	7/8/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.022 J	ND(0.034)	ND(0.034)	0.022 J
	5 - 7	7/8/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.020 J	ND(0.034)	ND(0.034)	0.020 J
	7 - 9	7/8/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.13	ND(0.036)	ND(0.036)	0.13
	9 - 11	7/8/2004	ND(330)	ND(330)	ND(330)	690	ND(330)	ND(330)	ND(330)	690
	11 - 13	7/8/2004	ND(1300)	ND(1300)	ND(1300)	3600	ND(1300)	ND(1300)	ND(1300)	3600
	13 - 15	7/8/2004	ND(11)	ND(11)	ND(11)	43	ND(11)	ND(11)	ND(11)	43
	15 - 17	7/8/2004	ND(14)	ND(14)	ND(14)	57	ND(14)	ND(14)	ND(14)	57
	17 - 19	7/8/2004	ND(5.2)	ND(5.2)	ND(5.2)	18	ND(5.2)	ND(5.2)	ND(5.2)	18
	19 - 21	7/8/2004	ND(24)	ND(24)	ND(24)	120	ND(24)	ND(24)	ND(24)	120
	21 - 23	7/8/2004	ND(0.23)	ND(0.23)	ND(0.23)	0.41	ND(0.23)	ND(0.23)	ND(0.23)	0.41
MSSB-C13	1 - 3	1/8/2004	ND(37)	ND(37)	ND(37)	ND(37)	100	ND(37)	ND(37)	100 B
	3 - 5	1/8/2004	ND(35)	ND(35)	ND(35)	ND(35)	ND(35)	58 B	ND(35)	58 B
	5 - 7	1/8/2004	ND(720)	ND(720)	ND(720)	ND(720)	ND(720)	2300 B	ND(720)	2300 B
	7 - 9	1/8/2004	ND(39)	ND(39)	ND(39)	ND(39)	ND(39)	47 B	ND(39)	47 B
	9 - 11	1/8/2004	ND(0.37) [ND(0.072)]	ND(0.37) [ND(0.072)]	ND(0.37) [ND(0.072)]	ND(0.37) [ND(0.072)]	0.73 [0.51]	0.56 B [0.40 B]	ND(0.37) [ND(0.072)]	1.3 B [0.92 B]
	11 - 13	1/8/2004	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	9.9	7.5 B	ND(1.9)	17 B
	13 - 15	1/8/2004	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	1.4	0.88 B	ND(0.39)	2.3 B
	15 - 17	1/8/2004	ND(39)	ND(39)	ND(39)	ND(39)	94	63 B	ND(39)	160 B
	17 - 18.7	1/8/2004	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	6.9	4.8 B	ND(1.8)	12 B
MSSB-C13N	3 - 5	7/13/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.068	0.033 J	ND(0.035)	0.10
	5 - 7	7/13/2004	ND(0.035) [ND(0.038)]	ND(0.035) [ND(0.038)]	ND(0.035) [ND(0.038)]	ND(0.035) [ND(0.038)]	ND(0.035) [ND(0.038)]	ND(0.035) [ND(0.038)]	ND(0.035) [ND(0.038)]	ND(0.035) [ND(0.038)]
	7 - 9	7/13/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	9 - 11	7/13/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	11 - 13	7/13/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	13 - 15	7/13/2004	1.2	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.2
	15 - 17	7/13/2004	1.3	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	ND(0.28)	1.3
	17 - 19	7/13/2004	1.2	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	1.2
	19 - 19.9	7/13/2004	0.058	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.058
MSSB-C13NE	3 - 5	7/26/2004	ND(1800)	ND(1800)	ND(1800)	ND(1800)	7400	4100	ND(1800)	11200
	5 - 7	7/26/2004	ND(19) [ND(9.7)]	ND(19) [ND(9.7)]	ND(19) [ND(9.7)]	ND(19) [ND(9.7)]	82 [26]	33 [10]	ND(19) [ND(9.7)]	120 [37]
	7 - 9	7/26/2004	ND(24)	ND(24)	ND(24)	ND(24)	90	56	ND(24)	146
	9 - 11	7/26/2004	ND(6.1)	ND(6.1)	ND(6.1)	ND(6.1)	18	14	ND(6.1)	32
	11 - 13	7/26/2004	ND(0.41)	ND(0.41)	ND(0.41)	ND(0.41)	5.7	4.8	ND(0.41)	10
	13 - 15	7/26/2004	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	5.5	4.7	ND(0.38)	10
	15 - 16	7/26/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	4.3	3.8	ND(0.22)	8.1
MSSB-C14	1 - 3	2/12/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	0.86	ND(0.21)	ND(0.21)	0.86
	3 - 5	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.028 J	ND(0.036)	ND(0.036)	0.028 J
	5 - 7	2/12/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	7 - 9	2/12/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	9 - 11	2/12/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.051 P	ND(0.039)	ND(0.039)	ND(0.039)	0.051
	11 - 13	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	13 - 15	2/12/2004	ND(0.20)	ND(0.20)	ND(0.20)	1.6 B	ND(0.20)	ND(0.20)	ND(0.20)	1.6 B
	15 - 17	2/12/2004	ND(0.037)	0.39 P	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.39
	17 - 19	2/12/2004	ND(0.038)	0.29 P	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.29
	19 - 20	2/12/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.24	ND(0.036)	ND(0.036)	ND(0.036)	0.24

MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-C15	1 - 3	1/6/2004	ND(0.17)	ND(0.17)	ND(0.17)	0.86	ND(0.17)	ND(0.17)	ND(0.17)	0.86
	3 - 5	1/6/2004	ND(0.14)	ND(0.14)	ND(0.14)	0.43	ND(0.14)	ND(0.14)	ND(0.14)	0.43
	5 - 7	1/6/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.24	ND(0.034)	ND(0.034)	ND(0.034)	0.24
	7 - 9	1/6/2004	ND(0.36)	ND(0.36)	ND(0.36)	2.6	ND(0.36)	ND(0.36)	ND(0.36)	2.6
	9 - 11	1/6/2004	ND(0.14)	ND(0.14)	ND(0.14)	0.52	ND(0.14)	ND(0.14)	ND(0.14)	0.52
	11 - 13	1/6/2004	ND(0.15)	ND(0.15)	ND(0.15)	1.3	ND(0.15)	ND(0.15)	ND(0.15)	1.3
	13 - 15	1/6/2004	ND(0.19)	ND(0.19)	ND(0.19)	0.57	ND(0.19)	ND(0.19)	ND(0.19)	0.57
	15 - 17	1/6/2004	ND(0.19)	ND(0.19)	ND(0.19)	1.1	ND(0.19)	ND(0.19)	ND(0.19)	1.1
	17 - 19	1/6/2004	ND(0.14)	ND(0.14)	ND(0.14)	0.40	ND(0.14)	ND(0.14)	ND(0.14)	0.40
	19 - 20.4	1/6/2004	ND(0.14)	ND(0.14)	ND(0.14)	0.68	ND(0.14)	ND(0.14)	ND(0.14)	0.68
MSSB-C16	1 - 2	4/29/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
MSSB-C17	1 - 3	1/7/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.018 J	ND(0.034)	ND(0.034)	ND(0.034)	0.018 J
	3 - 5	1/7/2004	ND(0.70)	ND(0.70)	ND(0.70)	1.7	ND(0.70)	ND(0.70)	ND(0.70)	1.7
	5 - 7	1/7/2004	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	0.051 [0.11 B]	ND(0.039) [ND(0.039)]	0.032 J [ND(0.039)]	ND(0.039) [ND(0.039)]	0.084 [0.11 B]
	7 - 9	1/7/2004	ND(0.71)	ND(0.71)	ND(0.71)	1.6	ND(0.71)	ND(0.71)	ND(0.71)	1.6
	9 - 11	1/7/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.047	ND(0.037)	ND(0.037)	ND(0.037)	0.047
	11 - 13	1/7/2004	ND(0.18)	ND(0.18)	ND(0.18)	0.25	ND(0.18)	ND(0.18)	ND(0.18)	0.25
	13 - 15	1/7/2004	ND(0.039)	ND(0.039)	ND(0.039)	0.044	ND(0.039)	ND(0.039)	ND(0.039)	0.044
	15 - 17	1/7/2004	ND(0.77)	ND(0.77)	ND(0.77)	1.5	ND(0.77)	ND(0.77)	ND(0.77)	1.5
	17 - 19	1/7/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.060	ND(0.037)	ND(0.037)	ND(0.037)	0.060
	19 - 20.2	1/7/2004	ND(0.38)	ND(0.38)	ND(0.38)	0.26 J	ND(0.38)	ND(0.38)	ND(0.38)	0.26 J
MSSB-C17S	1 - 3	7/22/2004	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	0.025 JP [0.037 B]	0.021 J [0.022 J]	ND(0.034) [ND(0.034)]	0.047 [0.059 B]
	3 - 5	7/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.0099 J	ND(0.033)	0.0099 J
	5 - 7	7/22/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	7 - 9	7/22/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	9 - 11	7/22/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	11 - 13	7/22/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	13 - 15	7/22/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	15 - 17	7/22/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	17 - 18.5	7/22/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.019 BJ	ND(0.038)	ND(0.038)	0.019 BJ
MSSB-C18	1 - 2	4/29/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
MSSB-C19	1 - 3	1/7/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.041 B	ND(0.037)	ND(0.037)	ND(0.037)	0.041 B
	3 - 5	1/7/2004	ND(0.14)	ND(0.14)	ND(0.14)	0.27 B	ND(0.14)	ND(0.14)	ND(0.14)	0.27 B
	5 - 7	1/7/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.042 B	ND(0.035)	ND(0.035)	ND(0.035)	0.042 B
	7 - 9	1/7/2004	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	0.25 B [0.29 B]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	ND(0.034) [ND(0.034)]	0.25 B [0.29 B]
	9 - 11	1/7/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.093 B	ND(0.034)	ND(0.034)	ND(0.034)	0.093 B
	11 - 13	1/7/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.15 B	ND(0.035)	ND(0.035)	ND(0.035)	0.15 B
	13 - 15	1/7/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.14	ND(0.040)	ND(0.040)	ND(0.040)	0.14
	15 - 17	1/7/2004	ND(0.038)	ND(0.038)	ND(0.038)	0.10	ND(0.038)	ND(0.038)	ND(0.038)	0.10
	17 - 19	1/7/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.018 J	ND(0.037)	ND(0.037)	ND(0.037)	0.018 J
	19 - 20.2	1/7/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.032 J	ND(0.036)	ND(0.036)	ND(0.036)	0.032 J
MSSB-C20	1 - 2	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.014 J	0.0092 J	ND(0.033)	0.023 J
MSSB-D04	1 - 2	4/28/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
MSSB-D04SW	1 - 2	7/1/2004	ND(4.2)	ND(4.2)	ND(4.2)	ND(4.2)	37	ND(4.2)	ND(4.2)	37
	2 - 3	7/1/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.054	ND(0.033)	ND(0.033)	0.054
MSSB-D05	1 - 2	4/28/2004	ND(0.12)	ND(0.12)	ND(0.12)	ND(0.12)	0.28	ND(0.12)	ND(0.12)	0.28
MSSB-D06	1 - 3	7/21/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	3.3	ND(0.24)	ND(0.24)	3.3
	3 - 5	7/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)

TABLE 4
MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-D07	1 - 3	2/13/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	5.0	ND(0.24)	ND(0.24)	5.0 B
	3 - 5	2/13/2004	ND(0.23)	ND(0.23)	ND(0.23)	0.66	ND(0.23)	ND(0.23)	ND(0.23)	0.66
	5 - 7	2/13/2004	5.0 P	ND(0.44)	ND(0.44)	ND(0.44)	ND(0.44)	ND(0.44)	ND(0.44)	5.0
	7 - 9	2/13/2004	ND(0.57)	ND(0.57)	ND(0.57)	ND(0.57)	5.8	ND(0.57)	ND(0.57)	5.8
	9 - 11	2/13/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	2.1	ND(0.21)	ND(0.21)	2.1
	11 - 13	2/13/2004	ND(0.28)	ND(0.28)	ND(0.28)	1.5 P	ND(0.28)	ND(0.28)	ND(0.28)	1.5
	13 - 15	2/13/2004	0.48	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.48
	15 - 17	2/13/2004	ND(0.26)	ND(0.26)	ND(0.26)	0.92	ND(0.26)	ND(0.26)	ND(0.26)	0.92
	17 - 19	2/13/2004	ND(0.24)	ND(0.24)	ND(0.24)	0.79	ND(0.24)	ND(0.24)	ND(0.24)	0.79
	19 - 21	2/13/2004	ND(0.26)	ND(0.26)	ND(0.26)	1.1	ND(0.26)	ND(0.26)	ND(0.26)	1.1
MSSB-D07SE	1 - 3	7/22/2004	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	8.6	ND(0.51)	ND(0.51)	8.6
	3 - 5	7/22/2004	ND(0.41)	ND(0.41)	ND(0.41)	ND(0.41)	1.4	ND(0.41)	ND(0.41)	1.4
	5 - 7	7/22/2004	ND(230)	ND(230)	ND(230)	ND(230)	560	ND(230)	ND(230)	560
	7 - 9	7/22/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	6.0	ND(0.24)	ND(0.24)	6.0
	9 - 11	7/22/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	3.1	ND(0.24)	ND(0.24)	3.1
	11 - 13	7/22/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.22	ND(0.043)	ND(0.043)	0.22
	13 - 15	7/22/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.58	0.22	ND(0.043)	0.80
	15 - 17	7/22/2004	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.034 JP	ND(0.043)	ND(0.043)	0.034 J
	17 - 19	7/22/2004	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	0.91	0.28	ND(0.27)	1.2
	19 - 21	7/22/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.53	0.20	ND(0.042)	0.73
	21 - 21.5	7/22/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.38	0.14	ND(0.041)	0.52
MSSB-D07W	1 - 3	7/28/2004	ND(460) [ND(530)]	ND(460) [ND(530)]	ND(460) [ND(530)]	ND(460) [ND(530)]	800 [830]	ND(460) [ND(530)]	ND(460) [ND(530)]	800 [830]
	3 - 5	7/28/2004	ND(4.2)	ND(4.2)	ND(4.2)	ND(4.2)	20	ND(4.2)	ND(4.2)	20
	5 - 7	7/28/2004	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	3.6 P	ND(0.18)	ND(0.18)	3.6
	7 - 9	7/28/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	4.2	ND(0.22)	ND(0.22)	4.2
	9 - 11	7/28/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.3	ND(0.20)	ND(0.20)	1.3
	11 - 13	7/28/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.058	ND(0.040)	ND(0.040)	0.058
	13 - 15	7/28/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	0.69	ND(0.25)	ND(0.25)	0.69
	15 - 17	7/28/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.28	ND(0.042)	ND(0.042)	0.28
	17 - 19	7/28/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.074	ND(0.040)	ND(0.040)	0.074
	19 - 21	7/28/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.12	ND(0.040)	ND(0.040)	0.12
	21 - 21.5	7/28/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.19	ND(0.039)	ND(0.039)	0.19
MSSB-D08	1 - 3	7/1/2004	ND(220)	ND(220)	ND(220)	ND(220)	380	ND(220)	ND(220)	380
	3 - 5	7/1/2004	ND(200)	ND(200)	ND(200)	ND(200)	720	ND(200)	ND(200)	720
	5 - 7	7/1/2004	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	26	ND(3.7)	ND(3.7)	26
	7 - 8	7/1/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	0.90	ND(0.22)	ND(0.22)	0.90
	8 - 10	7/1/2004	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.087	ND(0.046)	ND(0.046)	0.087
MSSB-D09	1 - 3	7/21/2004	0.24	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.24
	3 - 5	7/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.016 J	ND(0.034)	ND(0.034)	0.016 J
	5 - 7	7/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.022 J	ND(0.034)	ND(0.034)	0.022 J
	7 - 8	7/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.047 P	ND(0.034)	ND(0.034)	0.047
	8 - 10	7/21/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
MSSB-D10	1 - 2	4/29/2004	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	5.4	ND(0.40)	ND(0.40)	5.4
	2 - 3	4/29/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.036	ND(0.034)	ND(0.034)	0.036
MSSB-D11	1 - 3	7/6/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	1.4	ND(0.24)	ND(0.24)	1.4
	3 - 5	7/6/2004	ND(24) [ND(250)]	ND(24) [ND(250)]	ND(24) [ND(250)]	ND(24) [ND(250)]	330 [880]	ND(24) [ND(250)]	ND(24) [ND(250)]	330 [880]
	5 - 7	7/6/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	0.52	ND(0.21)	ND(0.21)	0.52
	7 - 9	7/6/2004	ND(0.14)	ND(0.14)	ND(0.14)	ND(0.14)	0.10 BJ	ND(0.14)	ND(0.14)	0.10 BJ
	9 - 11	7/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.029 BJ	ND(0.036)	ND(0.036)	0.029 BJ
	11 - 13	7/6/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	13 - 15	7/6/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.15 B	ND(0.038)	ND(0.038)	0.15 B
	15 - 17	7/6/2004	ND(0.31)	ND(0.31)	ND(0.31)	ND(0.31)	1.1	ND(0.31)	ND(0.31)	1.1
	17 - 19	7/6/2004	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	0.84	ND(0.27)	ND(0.27)	0.84
	19 - 20	7/6/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.074	ND(0.034)	ND(0.034)	ND(0.034)	0.074 B

MILL STREET AREA PCB SUBSURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-D13	1 - 3	2/13/2004	ND(460)	ND(460)	ND(460)	10000 B	ND(460)	ND(460)	ND(460)	10000 B
	3 - 5	2/13/2004	ND(400) [ND(550)]	ND(400) [ND(550)]	ND(400) [ND(550)]	20000 B [20000]	ND(400) [ND(550)]	ND(400) [ND(550)]	ND(400) [ND(550)]	20000 B [20000]
	5 - 7	2/13/2004	ND(500)	ND(500)	ND(500)	7800 B	ND(500)	ND(500)	ND(500)	7800 B
	7 - 9	2/13/2004	ND(260)	ND(260)	ND(260)	1900 B	ND(260)	ND(260)	ND(260)	1900 B
	9 - 11	2/13/2004	ND(120)	ND(120)	ND(120)	3400 B	ND(120)	ND(120)	ND(120)	3400 B
	11 - 13	2/13/2004	ND(4.7)	ND(4.7)	ND(4.7)	56 B	ND(4.7)	ND(4.7)	ND(4.7)	56 B
	13 - 15	2/13/2004	ND(48)	ND(48)	ND(48)	620 B	ND(48)	460	ND(48)	1100 B
	15 - 17	2/13/2004	ND(4.0)	ND(4.0)	ND(4.0)	22 B	ND(4.0)	12	ND(4.0)	34 B
	17 - 19	2/13/2004	ND(0.44)	ND(0.44)	ND(0.44)	5.0 B	ND(0.44)	ND(0.44)	ND(0.44)	5.0 B
	19 - 21	2/13/2004	ND(100)	ND(100)	ND(100)	650 B	ND(100)	ND(100)	ND(100)	650 B
	21 - 22	2/13/2004	ND(220)	ND(220)	ND(220)	4300 B	ND(220)	ND(220)	ND(220)	4300 B
MSSB-D13E	1 - 3	7/6/2004	ND(2600)	ND(2600)	ND(2600)	26000	ND(2600)	ND(2600)	ND(2600)	26000
	3 - 5	7/6/2004	ND(1100)	ND(1100)	ND(1100)	10000	ND(1100)	ND(1100)	ND(1100)	10000
	5 - 7	7/6/2004	ND(43)	ND(43)	ND(43)	56 P	ND(43)	ND(43)	ND(43)	56
	7 - 9	7/6/2004	ND(1300)	ND(1300)	ND(1300)	4000	ND(1300)	ND(1300)	ND(1300)	4000
	9 - 11	7/6/2004	ND(570)	ND(570)	ND(570)	1500	ND(570)	ND(570)	ND(570)	1500
	11 - 13	7/6/2004	ND(100)	ND(100)	ND(100)	200	ND(100)	ND(100)	ND(100)	200
	13 - 15	7/6/2004	ND(0.52)	ND(0.52)	ND(0.52)	5.8	ND(0.52)	ND(0.52)	ND(0.52)	5.8
	15 - 16	7/6/2004	ND(0.25)	ND(0.25)	ND(0.25)	1.6	ND(0.25)	ND(0.25)	ND(0.25)	1.6
MSSB-D15	1 - 3	7/1/2004	ND(1300)	ND(1300)	ND(1300)	ND(1300)	3700	ND(1300)	ND(1300)	3700
	3 - 5	7/1/2004	ND(0.20)	ND(0.20)	ND(0.20)	0.30	ND(0.20)	ND(0.20)	ND(0.20)	0.30
	5 - 7	8/25/2004	ND(0.96) [ND(0.85)]	ND(0.96) [ND(0.85)]	ND(0.96) [ND(0.85)]	ND(0.96) [ND(0.85)]	10 [8.8]	ND(0.96) [ND(0.85)]	ND(0.96) [ND(0.85)]	10 [8.8]
	7 - 9	8/25/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	2.8	ND(0.24)	ND(0.24)	2.8
	9 - 11	8/25/2004	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.4	ND(0.19)	ND(0.19)	1.4
	11 - 12	8/25/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.3	ND(0.22)	ND(0.22)	1.3
MSSB-D17	1 - 3	12/17/2003	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	0.032 J [0.033 J]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	0.032 J [0.033 J]
	3 - 5	12/17/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.042	ND(0.035)	ND(0.035)	0.042
	5 - 7	12/17/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.029 J	ND(0.040)	ND(0.040)	0.029 J
	7 - 9	12/17/2003	ND(0.072)	ND(0.072)	ND(0.072)	0.17	ND(0.072)	ND(0.072)	ND(0.072)	0.17
	9 - 11	12/17/2003	ND(0.037)	ND(0.037)	ND(0.037)	0.056 P	ND(0.037)	ND(0.037)	ND(0.037)	0.056
	11 - 13	12/17/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.023 J	ND(0.038)	ND(0.038)	ND(0.038)	0.023 J
	13 - 14.5	12/17/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.17	ND(0.036)	ND(0.036)	ND(0.036)	0.17
MSSB-E01	1 - 3	12/19/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.018 BJ	ND(0.039)	ND(0.039)	0.018 BJ
	3 - 5	12/19/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.024 BJ	ND(0.042)	ND(0.042)	0.024 BJ
	5 - 7	12/19/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.031 BJ	ND(0.037)	ND(0.037)	0.031 BJ
	7 - 9	12/19/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.061 B	ND(0.038)	ND(0.038)	0.061 B
	9 - 11	12/19/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.055 B	ND(0.037)	ND(0.037)	0.055 B
	11 - 13	12/19/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.048 B	ND(0.042)	ND(0.042)	0.048 B
	13 - 15	12/19/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.043 B	ND(0.039)	ND(0.039)	0.043 B
	15 - 17	12/19/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.054 B	ND(0.039)	ND(0.039)	0.054 B
	17 - 19	12/19/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.054 B	ND(0.041)	ND(0.041)	0.054 B
	19 - 21	12/19/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.026 BJ	ND(0.043)	ND(0.043)	0.026 BJ
	21 - 23	12/19/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.026 BJ	ND(0.038)	ND(0.038)	0.026 BJ
	23 - 24.1	12/19/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.025 BJ	ND(0.038)	ND(0.038)	0.025 BJ

TABLE 4
MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-E03	1 - 3	12/23/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.021 JP	ND(0.035)	ND(0.035)	0.021 J
	3 - 5	12/23/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.024 J	ND(0.035)	ND(0.035)	0.024 J
	5 - 7	12/23/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	7 - 9	12/23/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.039 P	ND(0.039)	ND(0.039)	0.039
	9 - 11	12/23/2003	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [0.019 BJ]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [0.019 BJ]
	11 - 13	12/23/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.022 J	ND(0.038)	ND(0.038)	0.022 J
	13 - 15	12/23/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.020 J	0.014 J	ND(0.039)	0.034 J
	15 - 17	12/23/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.021 J	0.018 J	ND(0.039)	0.039
	17 - 19	12/23/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.022 BJ	ND(0.043)	ND(0.043)	0.022 BJ
	19 - 21	12/23/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.027 BJ	ND(0.035)	ND(0.035)	0.027 BJ
	21 - 21.4	12/23/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.053 B	ND(0.035)	ND(0.035)	0.053 B
MSSB-E05	1 - 3	12/4/2003	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	3.7	2.7 J	ND(3.6)	6.4
	3 - 5	12/4/2003	ND(0.70)	ND(0.70)	ND(0.70)	ND(0.70)	3.9	3.2	ND(0.70)	7.1
	5 - 7	12/4/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.097	0.088	ND(0.037)	0.18
	7 - 9	12/4/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.040 P	ND(0.039)	ND(0.039)	ND(0.039)	0.040
	9 - 11	12/11/2003	ND(0.041) [ND(0.040)]	ND(0.041) [ND(0.040)]	ND(0.041) [ND(0.040)]	ND(0.041) [ND(0.040)]	0.020 J [0.029 J]	ND(0.041) [ND(0.040)]	ND(0.041) [ND(0.040)]	0.020 J [0.029 J]
	11 - 13	12/11/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.025 J	0.021 J	ND(0.036)	0.046
MSSB-E05E	1 - 3	7/21/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.23 P	ND(0.037)	ND(0.037)	0.23
	3 - 5	7/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	5 - 7	7/21/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
MSSB-E05N	1 - 3	7/21/2004	ND(0.91) [ND(0.84)]	ND(0.91) [ND(0.84)]	ND(0.91) [ND(0.84)]	ND(0.91) [ND(0.84)]	12 [11]	ND(0.91) [ND(0.84)]	ND(0.91) [ND(0.84)]	12 [11]
	3 - 5	7/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	5 - 7	7/21/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
MSSB-E05W	1 - 3	7/21/2004	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	6.4	ND(0.43)	ND(0.43)	6.4
	3 - 5	7/21/2004	ND(0.52)	ND(0.52)	ND(0.52)	ND(0.52)	11	ND(0.52)	ND(0.52)	11
	5 - 7	7/21/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	5.7	ND(0.24)	ND(0.24)	5.7
MSSB-E07	1 - 3	12/9/2003	ND(0.70)	ND(0.70)	ND(0.70)	ND(0.70)	8.4	ND(0.70)	ND(0.70)	8.4
	3 - 5	12/9/2003	ND(0.13)	ND(0.13)	ND(0.13)	ND(0.13)	1.7	ND(0.13)	ND(0.13)	1.7
	5 - 7	12/9/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.21	ND(0.036)	ND(0.036)	ND(0.036)	0.21
	7 - 9	12/9/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.29	ND(0.036)	ND(0.036)	0.29
	9 - 11	12/9/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.067	0.029 J	ND(0.039)	0.096
	11 - 13	12/9/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	13 - 15	12/9/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	15 - 17	12/9/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.047	ND(0.043)	ND(0.043)	0.047
	17 - 19	12/9/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.025 J	ND(0.042)	ND(0.042)	0.025 J
	19 - 20.4	12/9/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.22	ND(0.042)	ND(0.042)	0.22
MSSB-E07W	1 - 3	7/21/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	1.4	ND(0.21)	ND(0.21)	1.4
	3 - 5	7/21/2004	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.19 P	ND(0.046)	ND(0.046)	0.19
	5 - 7	7/21/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.011 J	ND(0.035)	ND(0.035)	0.011 J
MSSB-E08	1 - 3	7/22/2004	ND(4300) [ND(2500)]	ND(4300) [ND(2500)]	ND(4300) [ND(2500)]	ND(4300) [ND(2500)]	17000 B [14000]	ND(4300) [ND(2500)]	ND(4300) [ND(2500)]	17000 B [14000]
	3 - 5	7/22/2004	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	2.8	ND(0.23)	ND(0.23)	2.8
	5 - 6	7/22/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.2	ND(0.22)	ND(0.22)	1.2
	6 - 8	7/22/2004	ND(0.29)	ND(0.29)	ND(0.29)	ND(0.29)	1.4	ND(0.29)	ND(0.29)	1.4
MSSB-E09	1 - 3	12/9/2003	ND(3.5)	ND(3.5)	ND(3.5)	ND(3.5)	33	ND(3.5)	ND(3.5)	33
	3 - 5	12/9/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.082	ND(0.037)	ND(0.037)	0.082
	5 - 7	12/9/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.020 J	ND(0.037)	ND(0.037)	0.020 J
	7 - 9	12/9/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.11	ND(0.039)	ND(0.039)	0.11
	9 - 11	12/9/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.012 J	ND(0.040)	ND(0.040)	0.012 J
	11 - 13	12/9/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	13 - 15	12/9/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	15 - 17	12/9/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.016 J	ND(0.039)	ND(0.039)	ND(0.039)	0.016 J
	17 - 19	12/9/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.037 J	ND(0.038)	ND(0.038)	ND(0.038)	0.037 J
	19 - 21	12/11/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.042	ND(0.038)	ND(0.038)	ND(0.038)	0.042

MILL STREET AREA PC[illegible]B-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-E09N	1 - 3	7/20/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	3.5	ND(0.25)	ND(0.25)	3.5
	3 - 5	7/20/2004	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	1.0	ND(0.25)	ND(0.25)	1.0
MSSB-E09W	1 - 3	7/1/2004	ND(11) [ND(12)]	ND(11) [ND(12)]	ND(11) [ND(12)]	ND(11) [ND(12)]	210 [150]	ND(11) [ND(12)]	ND(11) [ND(12)]	210 [150]
	3 - 5	7/1/2004	ND(0.17)	ND(0.17)	ND(0.17)	0.40	ND(0.17)	ND(0.17)	ND(0.17)	0.40
MSSB-E10	1 - 3	7/20/2004	ND(4.5)	ND(4.5)	ND(4.5)	ND(4.5)	46	ND(4.5)	ND(4.5)	46
	3 - 5	7/20/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.11	ND(0.034)	ND(0.034)	0.11
MSSB-E11	1 - 3	12/18/2003	ND(35) [ND(18)]	ND(35) [ND(18)]	ND(35) [ND(18)]	ND(35) [ND(18)]	280 B [290 B]	ND(35) [ND(18)]	ND(35) [ND(18)]	280 B [290]
	3 - 5	12/18/2003	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	3.6 B	ND(0.74)	ND(0.74)	3.6 B
	5 - 7	12/18/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.023 BJ	ND(0.036)	ND(0.036)	0.023 BJ
	7 - 9	12/18/2003	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.039 B	ND(0.034)	ND(0.034)	0.039 B
	9 - 11	12/18/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	11 - 13	12/18/2003	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	0.79 B	ND(0.20)	ND(0.20)	0.79 B
	13 - 15	12/18/2003	ND(0.16)	ND(0.16)	ND(0.16)	ND(0.16)	0.55 B	ND(0.16)	ND(0.16)	0.55 B
	15 - 17	12/18/2003	ND(0.082)	ND(0.082)	ND(0.082)	ND(0.082)	0.31 B	ND(0.082)	ND(0.082)	0.31 B
	17 - 19	12/18/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.29 B	ND(0.042)	ND(0.042)	0.29 B
	19 - 21	12/18/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.073 B	ND(0.042)	ND(0.042)	0.073 B
	21 - 21.8	12/18/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.017 BJ	ND(0.041)	ND(0.041)	0.017 BJ
MSSB-E12	1 - 3	7/7/2004	ND(13)	ND(13)	ND(13)	61	ND(13)	ND(13)	ND(13)	61
	3 - 4	7/7/2004	ND(42)	ND(42)	ND(42)	270	ND(42)	ND(42)	ND(42)	270
	4 - 6	7/1/2004	ND(0.26)	ND(0.26)	ND(0.26)	0.16 J	ND(0.26)	ND(0.26)	ND(0.26)	0.16 J
	6 - 8	7/1/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.12	ND(0.035)	ND(0.035)	0.12
	8 - 10	7/7/2004	ND(0.22)	ND(0.22)	ND(0.22)	0.86	ND(0.22)	ND(0.22)	ND(0.22)	0.86
	10 - 12	7/1/2004	ND(0.20)	ND(0.20)	ND(0.20)	0.13 J	ND(0.20)	ND(0.20)	ND(0.20)	0.13 J
	12 - 14	7/7/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.021 J	ND(0.040)	ND(0.040)	0.021 J
	14 - 16	7/1/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.032 J	ND(0.037)	ND(0.037)	0.032 J
MSSB-E13	1 - 3	12/17/2003	ND(1800)	ND(1800)	ND(1800)	12000	ND(1800)	ND(1800)	ND(1800)	12000
	3 - 5	12/17/2003	ND(2.0)	ND(2.0)	ND(2.0)	15	ND(2.0)	ND(2.0)	ND(2.0)	15
	5 - 7	12/17/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.22	ND(0.039)	ND(0.039)	ND(0.039)	0.22
	7 - 9	12/17/2003	ND(8.6)	ND(8.6)	ND(8.6)	36	ND(8.6)	ND(8.6)	ND(8.6)	36
	9 - 11	12/17/2003	ND(0.74)	ND(0.74)	ND(0.74)	5.6	ND(0.74)	ND(0.74)	ND(0.74)	5.6
	11 - 13	12/17/2003	ND(0.19)	ND(0.19)	ND(0.19)	2.0	ND(0.19)	ND(0.19)	ND(0.19)	2.0
	13 - 15	12/17/2003	ND(0.15)	ND(0.15)	ND(0.15)	0.44	ND(0.15)	ND(0.15)	ND(0.15)	0.44
	15 - 17	12/17/2003	ND(0.15)	ND(0.15)	ND(0.15)	0.82	ND(0.15)	ND(0.15)	ND(0.15)	0.82
	17 - 19	12/17/2003	ND(0.083)	ND(0.083)	ND(0.083)	0.27	ND(0.083)	ND(0.083)	ND(0.083)	0.27
	19 - 21	12/18/2003	ND(0.17)	ND(0.17)	ND(0.17)	0.92	ND(0.17)	ND(0.17)	ND(0.17)	0.92 B
	21 - 21.3	12/18/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.032 BJ	ND(0.036)	ND(0.036)	0.032 BJ
MSSB-E13E	1 - 3	7/27/2004	ND(810)	ND(810)	ND(810)	17000	ND(810)	ND(810)	ND(810)	17000
	3 - 5	7/27/2004	ND(210)	ND(210)	ND(210)	1600	ND(210)	ND(210)	ND(210)	1600
	5 - 7	7/27/2004	ND(0.049) [ND(0.043)]	ND(0.049) [ND(0.043)]	ND(0.049) [ND(0.043)]	0.11 [0.057]	ND(0.049) [ND(0.043)]	ND(0.049) [ND(0.043)]	ND(0.049) [ND(0.043)]	0.11 [0.057]
	7 - 9	7/27/2004	ND(0.78)	ND(0.78)	ND(0.78)	ND(0.78)	2.3	0.82	ND(0.78)	3.2
	9 - 11	7/27/2004	ND(0.040)	ND(0.040)	ND(0.040)	0.011 J	ND(0.040)	ND(0.040)	ND(0.040)	0.011 J
	11 - 13	7/27/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.12 P	ND(0.036)	ND(0.036)	0.12
	13 - 15	7/27/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.032 J	ND(0.037)	ND(0.037)	0.032 J
MSSB-E13S	1 - 2	4/22/2004	ND(0.035)	ND(0.035)	ND(0.035)	0.044	ND(0.035)	ND(0.035)	ND(0.035)	0.044
	2 - 3	4/22/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.045	ND(0.034)	ND(0.034)	ND(0.034)	0.045
	3 - 5	4/22/2004	ND(0.048)	ND(0.048)	ND(0.048)	0.036 J	ND(0.048)	ND(0.048)	ND(0.048)	0.036 J
	5 - 7	4/22/2004	ND(0.038) [ND(0.035)]	ND(0.038) [ND(0.035)]	ND(0.038) [ND(0.035)]	ND(0.038) [ND(0.035)]	ND(0.038) [ND(0.035)]	ND(0.038) [ND(0.035)]	ND(0.038) [ND(0.035)]	ND(0.038) [ND(0.035)]
	7 - 9	4/22/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	9 - 11	4/22/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	11 - 13	4/22/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	13 - 15	4/22/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)

TABLE 4
MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-E13SS	1 - 2	4/22/2004	ND(0.034)	ND(0.034)	ND(0.034)	0.024 J	ND(0.034)	ND(0.034)	ND(0.034)	0.024 J
	2 - 3	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	0.011 JP	ND(0.033)	ND(0.033)	ND(0.033)	0.011 J
MSSB-E13W	1 - 3	7/27/2004	ND(0.26)	ND(0.26)	ND(0.26)	2.6	ND(0.26)	ND(0.26)	ND(0.26)	2.6
	3 - 5	7/27/2004	ND(0.40)	ND(0.40)	ND(0.40)	1.8	ND(0.40)	ND(0.40)	ND(0.40)	1.8
	5 - 7	7/27/2004	ND(0.037)	ND(0.037)	ND(0.037)	0.27	ND(0.037)	ND(0.037)	ND(0.037)	0.27
	7 - 9	7/27/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.21	0.20	ND(0.040)	0.41
	9 - 11	7/27/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.043	ND(0.036)	ND(0.036)	ND(0.036)	0.043
	11 - 13	7/27/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.23	ND(0.037)	ND(0.037)	0.23
	13 - 15	7/27/2004	ND(0.036)	ND(0.036)	ND(0.036)	0.051	ND(0.036)	ND(0.036)	ND(0.036)	0.051
MSSB-E14	1 - 2	4/29/2004	ND(1400)	ND(1400)	ND(1400)	15000	ND(1400)	ND(1400)	ND(1400)	15000
	2 - 3	4/29/2004	ND(430)	ND(430)	ND(430)	ND(430)	14000	ND(430)	ND(430)	14000
	3 - 5	7/27/2004	ND(12)	ND(12)	ND(12)	ND(12)	98	ND(12)	ND(12)	98
	5 - 7	7/27/2004	ND(0.27)	ND(0.27)	ND(0.27)	2.1	ND(0.27)	ND(0.27)	ND(0.27)	2.1
MSSB-E14S	1 - 3	7/27/2004	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	16	ND(2.1)	ND(2.1)	16
	3 - 5	7/27/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.024 J	ND(0.039)	ND(0.039)	0.024 J
	5 - 7	7/27/2004	ND(0.077)	ND(0.077)	ND(0.077)	ND(0.077)	ND(0.077)	ND(0.077)	ND(0.077)	ND(0.077)
MSSB-E14SE	1 - 2	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	2 - 3	4/22/2004	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.015 JP	ND(0.033)	ND(0.033)	0.015 J
MSSB-E14SW	1 - 2	4/22/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	2 - 3	4/22/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
MSSB-E15	1 - 3	12/17/2003	ND(18)	ND(18)	ND(18)	ND(18)	64	ND(18)	ND(18)	64
	3 - 5	12/17/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.71	ND(0.18)	ND(0.18)	0.71
	5 - 7	12/17/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.12	ND(0.035)	0.025 J	0.15
	7 - 9	12/17/2003	ND(0.076)	ND(0.076)	ND(0.076)	ND(0.076)	0.15	0.22	ND(0.076)	0.36
	9 - 11	12/17/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.016 J	0.016 JP	ND(0.038)	0.032 J
	11 - 13	12/17/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.014 J	ND(0.037)	ND(0.037)	0.014 J
	13 - 13.6	12/17/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.15	ND(0.038)	ND(0.038)	ND(0.038)	0.15
MSSB-E15S	1 - 3	4/22/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.40	ND(0.035)	ND(0.035)	0.40
MSSB-F05	1 - 3	7/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.011 JP	ND(0.034)	ND(0.034)	0.011 J
	3 - 5	7/21/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.019 JP	ND(0.034)	ND(0.034)	0.019 J
	5 - 7	7/21/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.020 JP	ND(0.036)	ND(0.036)	0.020 J
MSSB-F06	1 - 2	4/28/2004	ND(0.21) [ND(0.24)]	ND(0.21) [ND(0.24)]	ND(0.21) [ND(0.24)]	1.8 [0.68]	ND(0.21) [ND(0.24)]	ND(0.21) [ND(0.24)]	ND(0.21) [ND(0.24)]	1.8 [0.68]
	2 - 3	4/28/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.035 J	ND(0.039)	ND(0.039)	0.035 J
MSSB-F07	1 - 3	12/12/2003	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.062	ND(0.034)	ND(0.034)	0.062
	3 - 5	12/12/2003	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.014 J	ND(0.033)	ND(0.033)	0.014 J
	5 - 7	12/12/2003	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	7 - 9	12/12/2003	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.066	ND(0.034)	ND(0.034)	0.066
	9 - 11	12/12/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.081	ND(0.038)	ND(0.038)	ND(0.038)	0.081
	11 - 13	12/12/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.011 J	ND(0.039)	ND(0.039)	ND(0.039)	0.011 J
	13 - 15	12/12/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	15 - 17	12/12/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
MSSB-F08	1 - 2	4/29/2004	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	11	ND(1.0)	ND(1.0)	11
	2 - 3	4/29/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.15	ND(0.035)	ND(0.035)	0.15
MSSB-F09	1 - 2	7/1/2004	ND(4.6)	ND(4.6)	ND(4.6)	ND(4.6)	24	ND(4.6)	ND(4.6)	24
	2 - 3	7/1/2004	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	0.20 J	ND(0.22)	ND(0.22)	0.20 J
	3 - 5	7/1/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.49	ND(0.042)	ND(0.042)	0.49
MSSB-F10	1 - 2	4/29/2004	ND(4.2) [ND(11)]	ND(4.2) [ND(11)]	ND(4.2) [ND(11)]	ND(4.2) [ND(11)]	65 [88]	ND(4.2) [ND(11)]	ND(4.2) [ND(11)]	65 [88]
	2 - 3	4/29/2004	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	0.52 P	ND(0.21)	ND(0.21)	0.52

MILL STREET AREA PCB SUB-SURFACE SOIL DATA
DELINEATION DATA SET POTENTIALLY SUBJECT TO TIER II AND TIER III VALIDATION

PRE-DESIGN INVESTIGATION
FLETCHER 'S PAINT WORKS AND STORAGE FACILITY SUPERFUND SITE
GENERAL ELECTRIC COMPANY - MILFORD, NEW HAMPSHIRE
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
PCB Mill St Subsurface Soil Criterion			--	--	--	--	--	--	--	1
MSSB-G01	1 - 3	12/11/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.013 J	ND(0.036)	ND(0.036)	0.013 J
	3 - 5	12/11/2003	ND(0.046) [ND(0.044)]	ND(0.046) [ND(0.044)]	ND(0.046) [ND(0.044)]	ND(0.046) [ND(0.044)]	0.066 [0.036 J]	ND(0.046) [ND(0.044)]	ND(0.046) [ND(0.044)]	0.066 [0.036 J]
	5 - 7	12/11/2003	ND(0.075)	ND(0.075)	ND(0.075)	ND(0.075)	0.33	ND(0.075)	ND(0.075)	0.33
	7 - 9	12/11/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.014 J	ND(0.037)	ND(0.037)	0.014 J
	9 - 11	12/11/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	11 - 13	12/11/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	13 - 15	12/11/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	15 - 17	12/11/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.013 JP	ND(0.036)	ND(0.036)	0.013 J
	17 - 19	12/11/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	19 - 21	12/11/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.033 JP	ND(0.037)	ND(0.037)	0.033 J
	21 - 23	12/11/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	23 - 25	12/11/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.016 J	ND(0.042)	ND(0.042)	0.016 J
	25 - 27	12/11/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.097	ND(0.043)	ND(0.043)	0.097
	27 - 29	12/12/2003	ND(0.038) [ND(0.037)]	ND(0.038) [ND(0.037)]	ND(0.038) [ND(0.037)]	ND(0.038) [ND(0.037)]	0.028 J [ND(0.037)]	ND(0.038) [ND(0.037)]	ND(0.038) [ND(0.037)]	0.028 J [ND(0.037)]
	29 - 31	12/12/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.031 J	ND(0.040)	ND(0.040)	0.031 J
	31 - 31.5	12/12/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.012 J	ND(0.040)	ND(0.040)	0.012 J
MSSB-G03	1 - 3	12/16/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.025 J	ND(0.036)	ND(0.036)	0.025 J
	3 - 5	12/16/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.079	ND(0.036)	ND(0.036)	0.079
	5 - 7	12/16/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.048	ND(0.035)	ND(0.035)	0.048
	7 - 9	12/16/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.036 J	ND(0.037)	ND(0.037)	0.036 J
	9 - 11	12/16/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.026 J	ND(0.040)	ND(0.040)	0.026 J
	11 - 13	12/16/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.050	ND(0.037)	ND(0.037)	0.050
	13 - 15	12/16/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.029 J	ND(0.037)	ND(0.037)	0.029 J
	20 - 21	12/16/2003	ND(0.078)	ND(0.078)	ND(0.078)	ND(0.078)	0.26	ND(0.078)	ND(0.078)	0.26
	21 - 23	12/16/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.11	ND(0.041)	ND(0.041)	0.11
	23 - 25	12/16/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.014 BJ	ND(0.036)	ND(0.036)	ND(0.036)
	25 - 26	12/16/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.075 B	ND(0.037)	ND(0.037)	ND(0.037)
MSSB-G05	1 - 3	12/16/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.021 BJ	ND(0.035)	ND(0.035)	ND(0.035)
	3 - 5	12/16/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.014 BJ	ND(0.035)	ND(0.035)	ND(0.035)
	5 - 7	12/16/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.031 BJ	ND(0.035)	ND(0.035)	ND(0.035)
	7 - 9	12/16/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.011 BJ	ND(0.036)	ND(0.036)	ND(0.036)
	9 - 11	12/16/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.048 B	ND(0.040)	ND(0.040)	ND(0.040)
	11 - 12	12/16/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.022 BJ	0.013 J	ND(0.038)	ND(0.038)
MSSB-SF-01G-1	1 - 3	7/12/2004	ND(23)	ND(23)	ND(23)	ND(23)	240	130	ND(23)	370
	3 - 5	7/12/2004	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	1.2	ND(0.27)	ND(0.27)	1.2
MSSB-SF-04G-1	1 - 2	4/29/2004	ND(190)	ND(190)	ND(190)	ND(190)	4300	ND(190)	ND(190)	4300
	2 - 3	4/29/2004	ND(0.83)	ND(0.83)	ND(0.83)	ND(0.83)	6.7 P	ND(0.83)	ND(0.83)	6.7
SB-5	1 - 2	4/29/2004	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	2.1	ND(0.24)	ND(0.24)	2.1
	2 - 3	4/29/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.035 J	ND(0.038)	ND(0.038)	0.035 J
SB-12	1 - 2	4/29/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
SB-12(ESE)	1 - 2	7/12/2004	ND(440)	ND(440)	ND(440)	ND(440)	610	620	ND(440)	1200
	2 - 3	7/12/2004	ND(45)	ND(45)	ND(45)	ND(45)	260	300	ND(45)	560
	3 - 5	7/12/2004	ND(0.26)	ND(0.26)	ND(0.26)	ND(0.26)	1.3	1.6	ND(0.26)	3.0
SB-13	1 - 2	4/28/2004	ND(0.035) [ND(0.034)]	ND(0.035) [ND(0.034)]	ND(0.035) [ND(0.034)]	ND(0.035) [ND(0.034)]	0.029 J [0.021 J]	ND(0.035) [ND(0.034)]	ND(0.035) [ND(0.034)]	0.029 J [0.021 J]
SB-14	1 - 2	4/28/2004	ND(0.035) [ND(0.39)]	ND(0.035) [ND(0.39)]	ND(0.035) [ND(0.39)]	ND(0.035) [ND(0.39)]	0.020 J [5.3]	ND(0.035) [ND(0.39)]	ND(0.035) [ND(0.39)]	0.020 J [5.3]
	2 - 3	4/28/2004	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.011 J	ND(0.034)	ND(0.034)	0.011 J

Notes:
1. Shaded sample results indicate samples containing PCBs at concentrations in excess of the Subsurface Soil Cleanup Level of 1 ppm.
2. Shaded sample IDs represent those samples proposed for inclusion in the delineation data set potentially subject to Tier II and Tier III validation.

Draft for EPA Review

GE e-mail Providing Additional Details Regarding Derivation of Delineation Data Set dated December 3, 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

From: "Streeter, Lewis S. (Corporate)" <Lewis.Streeter@corporate.ge.com>
To: "Cheryl Sprague (E-mail)" <sprague.cheryl@epa.gov>, "Scott E. Acone (E-mail)" <scott.e.acone@usace.army.mil>, <Beliveau.Andy@epamail.epa.gov>
Date: Fri, Dec 3, 2004 4:40 PM
Subject: Fletcher Paint Site, data validation

Cheryl,

During our call on November 29 you asked GE to provide a brief summary of the following items:

1. The process we have followed to compile the data set that will be subjected to higher levels of validation.
2. The process we have followed in selecting 25% and 10% of the data to be validated at Tier II and Tier III levels respectively. And,
3. Define how the validated data will be utilized.

1. Derivation of Data Set:

The data set potentially subject to Tier II and Tier III levels of validation was compiled by using a strict interpretation of the definition of a delineation sample as provided by EPA in your August 19, 2004 letter to GE. This process involved the following steps.

First, the data for all of the soil borings was reviewed to determine the maximum depth of exceedance of the soil cleanup level (SCL). Upon making this determination, the deepest sample containing PCBs in excess of the SCL, as well as the underlying sample, were added to the delineation data set for each soil boring. This addressed vertical delineation.

For horizontal delineation of surface soil samples, BBL utilized a similar approach. Specifically, if a sample or group of samples exceeded the surface soil cleanup level, that sample(s) and the closest sample in each direction containing PCBs at concentrations below the SCL were included in the delineation data set.

The best way to explain the process for choosing horizontal delineation samples for subsurface exceedances is by citing an example. Assume soil borings A and B have exceedances of the SCL to a depth of 15 feet below grade. BBL reviewed the surrounding soil borings to determine the maximum depth of exceedance in each adjacent boring. For the sake of discussion, assume that the four surrounding soil borings, one east (E), west (W), north (N), and south (S) have exceedances of the SCL to the following depths: E = 5', W = 7', N = 9', and S = 11'. Under this scenario, the following intervals from Borings A and B would be included in the data set: 13 to 15' and 15 to 17' (since this is the maximum depth of an exceedance) and 5-7', 7'-9', 9'-11', and 11'-13' due to the exceedance at borings N, S, E, and W. (Since the top five feet in all directions was still above the SCL, those samples from borings A and B were not included in the delineation data set). For borings E, W, N, and S, assuming that the samples for the soil borings surrounding those locations were all below the subsurface soil cleanup levels, the following data would be added to the delineation data set: Soil boring E (and all surrounding soil borings)- 1'-3' and 3'-5'; Soil boring W (and all surrounding soil borings) - 1'-3', 3'-5', and 5'-7'; this same process would be completed for borings N and S and the soil borings surrounding those locations.

2. Application of Tier II and Tier III Validation Percentages:

Once the delineation data set was compiled, BBL applied the Tier II and Tier III validation percentages specified in the SAP-QAPP to that data set. Specifically, 25% of the delineation data set transmitted to EPA in GE's letter dated October 29, 2004 are subject to Tier II validation, plus any samples for which deviations were cited during Tier I validation. Finally, 10% of the data subject to Tier II validation, plus any samples for which deviations were cited during Tier II validation, are subject to Tier III validation. In order to determine which samples were subject to Tier II and Tier III validation, BBL selected SDGs containing the most delineation samples, as determined by a review of the delineation data set identified in GE's

October 29, 2004 submittal to EPA.

3. Purpose/Use of Validated Data:

In short the purpose of validating this data is to ensure that it is acceptable for use in future evaluations pertaining to RD/RA activities. The intent of this effort is to validate a representative sub-set of the entire data set thus providing a high degree of confidence that the entire data set is useable. The original approach to achieving this objective was to compile the data set that would only include samples below the SCLs, and then subject a percentage of this data set to higher levels of validation. Based on your letter dated August 19, 2004, the data set now includes approximately 300 samples that exceed the SCLs.

Please keep in mind that if the EPA believes that decisions were or will be made using questionable or invalid data, we will possess the necessary information to perform higher levels of validation on such data.

Let me know if you have any questions or need additional information.

Lew

Lewis S. Streeter
GE Corporate Environmental Programs
Remedial Project Manager

T 518 862 2712
F 518 862 2702
D *232-2712
E lewis.streeter@corporate.ge.com
www.ge.com

320 Great Oaks Blvd., Suite 319
Albany, NY 12203 U.S.A.
General Electric Company

CC: "Corey Averill (E-mail)" <CRA@bbl-inc.com>, "Lehecka, Scott A (Corporate)" <scott.lehecka@ge.com>

Draft for EPA Review

GE Response to EPA October 28, 2004 PCB Chromatogram Comments dated December 22, 2004

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Lewis S. Streeter
Remedial Project Manager

General Electric Company
320 Great Oaks Office Park
Suite 319
Albany, New York 12203

T (518) 862-2712
F (518) 862-2702
Lewis.Streeter@corporate.ge.com

December 22, 2004

Ms. Cheryl Sprague
Remedial Project Manager
U.S. Environmental Protection Agency
1 Congress Street, Suite 1100 (HBO)
Boston, MA 02114

Subject: Response to EPA's October 28, 2004 Letter
Fletcher's Paint Works and Storoge Facility Superfund Site
CERCLA Docket No. 01-2001-0063

Dear Ms. Sprague:

Attached please find GE's response to the issues raised in Andy Beliveau's October 13, 2004, memorandum which was attached to your letter of October 28, 2004. To assist us in addressing the issues roised in Andy's memorandum, GE retained Enviranmental Standards Inc., (ESI). ESI has a national reputation as an independent quality assurance and chemistry consultant, providing services in third party data validation, laboratory auditing, methods development, QAPP preparation and similar specialized services.

The attached letter provides a summary of the evaluation conducted by ESI, followed by a response to each issue contained in the memorandum. In summary, the truncated peaks depicted in several of the PCB chromatograms originally provided to the EPA are due to the laboratory not properly scaling the chromatograms prior to printing. Copies of the properly scaled overlays used for pattern recognition for data packages SDG 121001 and 121901 are attached. Based on the evaluation conducted by ESI, we do not recommend any corrective action. If necessary, we can conduct a call with Andy and ESI to further discuss these issues.

We would like to further discuss the leaching study that is currently proposed for the Mill Street site, prior to submitting any proposed revisions to the previously submitted work plan (Attachment B of the PDI Work Plan). I will contact you after the upcoming holidays to further discuss this topic.

Please do not hesitate to contact me if you have any questions or would like to conduct a conference call to discuss the attached response.

Sincerely,

Lewis S. Streeter
Remedial Project Manager

Enc. ESI letter with attachment

cc: Scott Lehecka, GE (without enclosure)
Corey Averill, BBL, (with enclosure)
Scott Acone, USACE, (with enclosure)
Andy Beliveau, USEPA, (with enclosure)
Tom Roy, Aries Engineering, (with enclosure)
David Blye, Environmentol Standards Inc., (with enclosure)

LSS/lss

ENVIRONMENTAL STANDARDS

Setting the Standards for Innovative Environmental Solutions

December 21, 2004

Mr. Lewis S. Streeter
General Electric Company
Corporate Environmental Programs
320 Great Oaks Blvd.
Suite 319
Albany, New York 12203

RE: October 13, 2004 EPA Memorandum on GE Fletcher's Paint PCB Chromatograms and Integration Reports

Dear Mr. Streeter:

Environmental Standards, Inc. (ESI) has evaluated the issues presented in the October 13, 2004 memorandum from A.F. Beliveau to Cheryl Sprague concerning the GE Fletcher's Paint PCB chromatograms and integration data. Responses to the comments presented in the EPA memorandum are presented in this letter. We did not reproduce the EPA memorandum in its entirety, but present the primary issues raised in the memorandum with a heading of "USEPA Comment."

To formulate our responses, we evaluated the information provided to EPA for Sample Delivery Groups (SDGs) 121001 and 121901. Additionally, we spoke with personnel at the laboratory (STL Buffalo) that performed the analysis to understand the qualitative identification and quantitation process used for these samples. ESI initially evaluated the chromatography for a representative number of the samples listed in the EPA memorandum in a similar fashion as performed by EPA. We calculated the ratio of the sample peak area counts to the same peak in both the Aroclor 1242 and Aroclor 1248 calibration standards. This was done for both columns used for analysis. The laboratory used a two column analysis to provide confirmation of Aroclor identification on two dissimilar columns. ESI also calculated the precision of the results between both columns as a further evaluation tool.

On November 19, 2004, ESI contacted personnel at STL Buffalo to discuss and understand their qualitative identification and quantitation procedures. Consistent with SW-846 Method 8082, the laboratory assigns five major peaks for identification and quantitation of an Aroclor. The laboratory also indicated that they look for a match of approximately 80% of the minor peaks in the sample chromatogram using overlays of the sample and Aroclor standard chromatograms. The laboratory personnel indicated that copies of the overlay chromatograms were included in the data package for these SDGs. ESI obtained copies of these overlay chromatograms and further evaluated the qualitative identification of the Aroclor in the samples using this additional information.

1140 Valley Forge Road • P.O. Box 810 • Valley Forge, PA 19482-0810
T: 610-935-5577 • F: 610-935-5583 • www.envstd.com • solutions@envstd.com

Responses to the comments in EPA's memorandum based on our evaluation of the data are provided below.

October 13, 2004 Memorandum from A.F. Beliveau to Cheryl Sprague

USEPA Comment: *There are many chromatograms in these SDGs that display peaks that are truncated because they are off-scale due to elevated concentrations of PCB contamination. Only the peak area counts for those peaks were available for review to determine the Aroclor identification (EPA is assuming that these area counts are correct and not modified due to truncation). There are a few cases where the Aroclor identifications are incorrect when the truncated peaks are used. Most identifications are correct.*

Response: The PCB chromatograms that display truncated peaks are simply due to the laboratory not properly scaling the chromatograms for the presentation in the hard copy data package. Many of the sample chromatograms do display truncated peaks; however, the peaks are truncated due to the inappropriate scale used to print the chromatograms. Based on the area count and dilution information, the PCB sample concentrations were properly analyzed within the linear calibration range of the instrument. Chromatography software evaluation tools are available at the laboratory to properly identify the Aroclor pattern in the sample including the ability to overlay sample chromatograms with the various Aroclor standard chromatograms.

As stated in the first paragraph of the memorandum, in most cases, the same peaks were used by the laboratory to identify both Aroclor 1242 as well as Aroclor 1248. The laboratory assigns five quantitation peaks for each Aroclor. The Aroclor 1242 and Aroclor 1248 standards do have many chromatographic peaks in common. As a result, the laboratory used many of the same peaks to quantitate both Aroclor 1242 and Aroclor 1248. However, to clarify the PCB pattern evaluation process, the laboratory used the entire peak patterns of Aroclor 1242 and Aroclor 1248 for identification purposes and did not focus solely on the quantitation peaks. The process used by the laboratory to examine the entire pattern is exhibited by the chromatogram overlays that were provided to ESI (Attachment 1).

As stated in the second paragraph and in the conclusion of the letter, there are a few cases where the Aroclor identifications made with chromatograms that are off scale appear incorrect. As indicated in Attachment 1, the laboratory did not base their Aroclor identifications on the sample chromatograms printed using the inappropriate scale. The laboratory systematically compared the full-scale sample chromatograms of the entire data set printed beneath full-scale Aroclor standard chromatograms in order to appropriately compare the peak patterns. The laboratory has reviewed the identifications in question and believes, based on their professional judgment, that their initial Aroclor identifications are correct.

Qualitative identification of the Aroclor pattern as precisely 1248 or 1242 in some samples in SDGs 121001 and 121901 is clear while in other cases the specific identification is impacted by the PCB pattern weathering or alterations that have occurred. In these later cases, more than one chromatographer may determine the pattern to be more like Aroclor 1248 or Aroclor 1242 based on their own professional opinion. ESI believes that the laboratory qualitative identification and quantification procedures are correct for these samples based on the additional information provided with the overlay chromatograms.

USEPA Comment: *Some of the identifications within a boring change at some strata (>10 feet) from Aroclor 1248 to Aroclor 1242. This is probably due to site rework and filling of certain low areas.*

Response: The samples in question (MSSB-E07 5-7'; MSSB-E09, 15-17' and 17-19') are from the Mill Street Area. According to GE and BBL, historic documentation supports the assertion that extensive filling and/or rework of Site soils has occurred at the ELM Street Area. However, similar evidence of significant filling and/or rework of Site soils has not been documented for the Mill Street Area in previous project reports.

USEPA Comment: *One boring with surface soil samples, MSSS-F01 and MSSS-F02, indicate from the GC-ECD chromatograms another later eluting multi-halogenated species that cannot be identified by this method but could be dioxin/furan or polychlorinated naphthalene and/or a brominated flame retardant. These peaks in this sample should be further investigated, analyzed, and identified to rule out the above contaminants prior to any type of remedial action or soil removal.*

Response: EPA's comment relative to the nature of these later eluting peaks is speculative and as noted, cannot be identified by this method. GE analyzed the samples utilizing the procedures presented in the Agency-approved Quality Assurance Project Plan (QAPP) for the constituents specified in the Unilateral Administrative Order for the Site. Neither the extracts for these samples nor any remaining sample aliquot exits; thereby preventing such further analysis work.

USEPA Comment: *Conclusions: There are many identifications that appear to this reviewer to be correct. Those identifications made with chromatographs that are off scale appear to be incorrect. If the PRP Contractor were to determine the exact concentration of PCB from the correct PCB response factor, would the concentration of each sample remain the same or would the concentrations go up (or down)? This issue needs to be clarified to determine which strata meets the compliance concentration in each boring. In some borings there may be a legitimate change in Aroclor identification with depth due to historical site rework.*

Response: The overlay chromatograms provided in Attachment 1 demonstrate that the laboratory was properly evaluating the entire PCB pattern when assigning the Aroclor identification. The truncated peaks are simply due to the inappropriate scale used to print the chromatograms. Refer to the previous response regarding the comment on historical site rework.

If you would like to discuss this matter further, please do not hesitate to contact us.

Sincerely,

David R. Blye

David R. Blye, CEAC
Quality Assurance Specialist/
Principal

Sincerely,

Meg A. Michell

Meg A. Michell, M.S.
Senior Quality Assurance Chemist III/
Project Manager

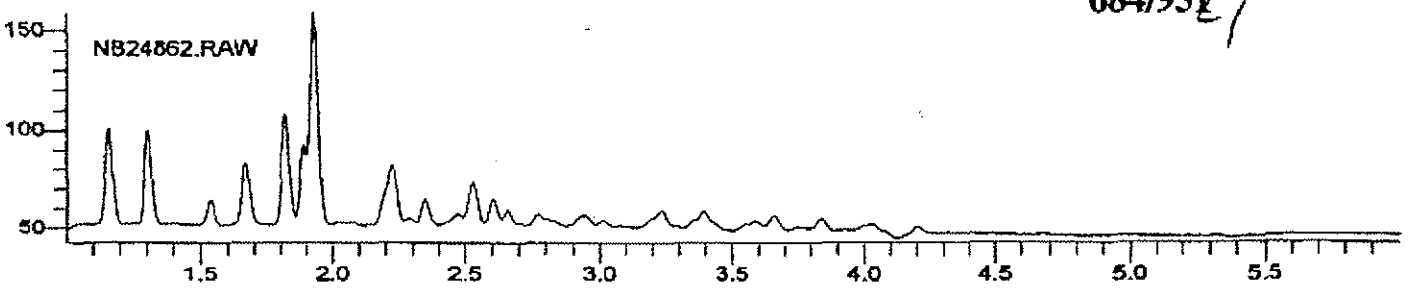
DRB/MAM:hm
Enc.

ATTACHMENT 1

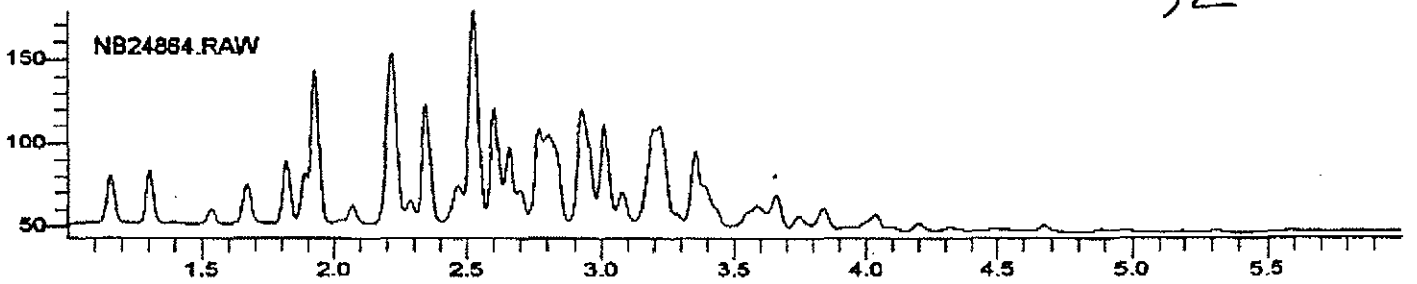
ATTACHMENT 1
CHROMATOGRAM OVERLAYS FOR SDGs 121001 AND 121901

SDG 121001

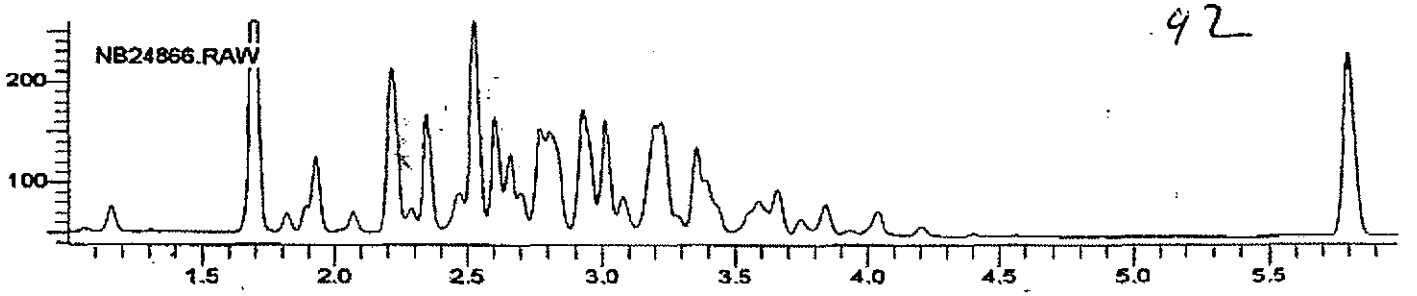
684/952 /



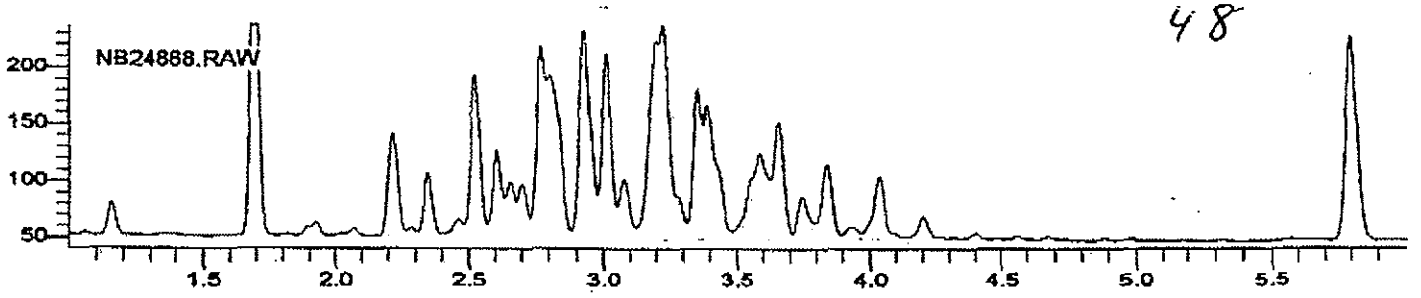
32



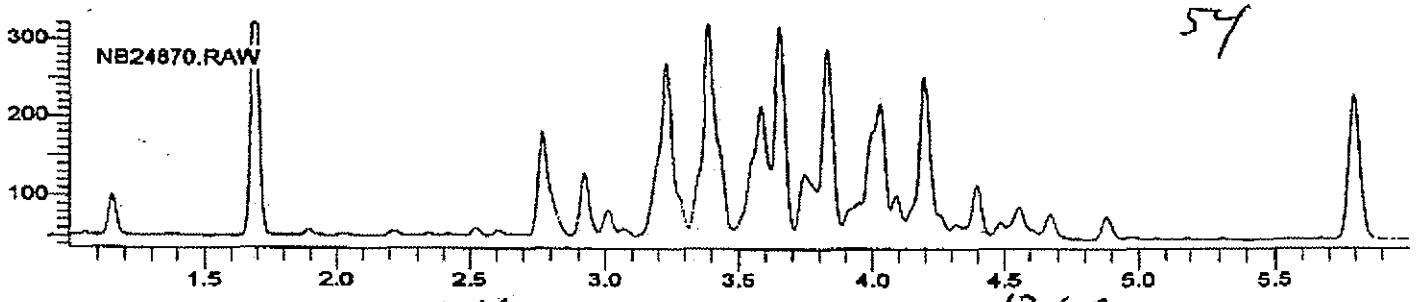
42



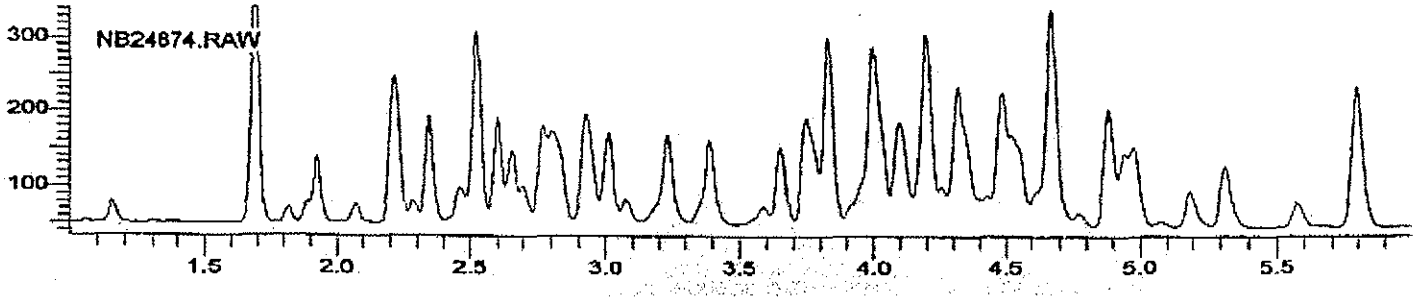
48

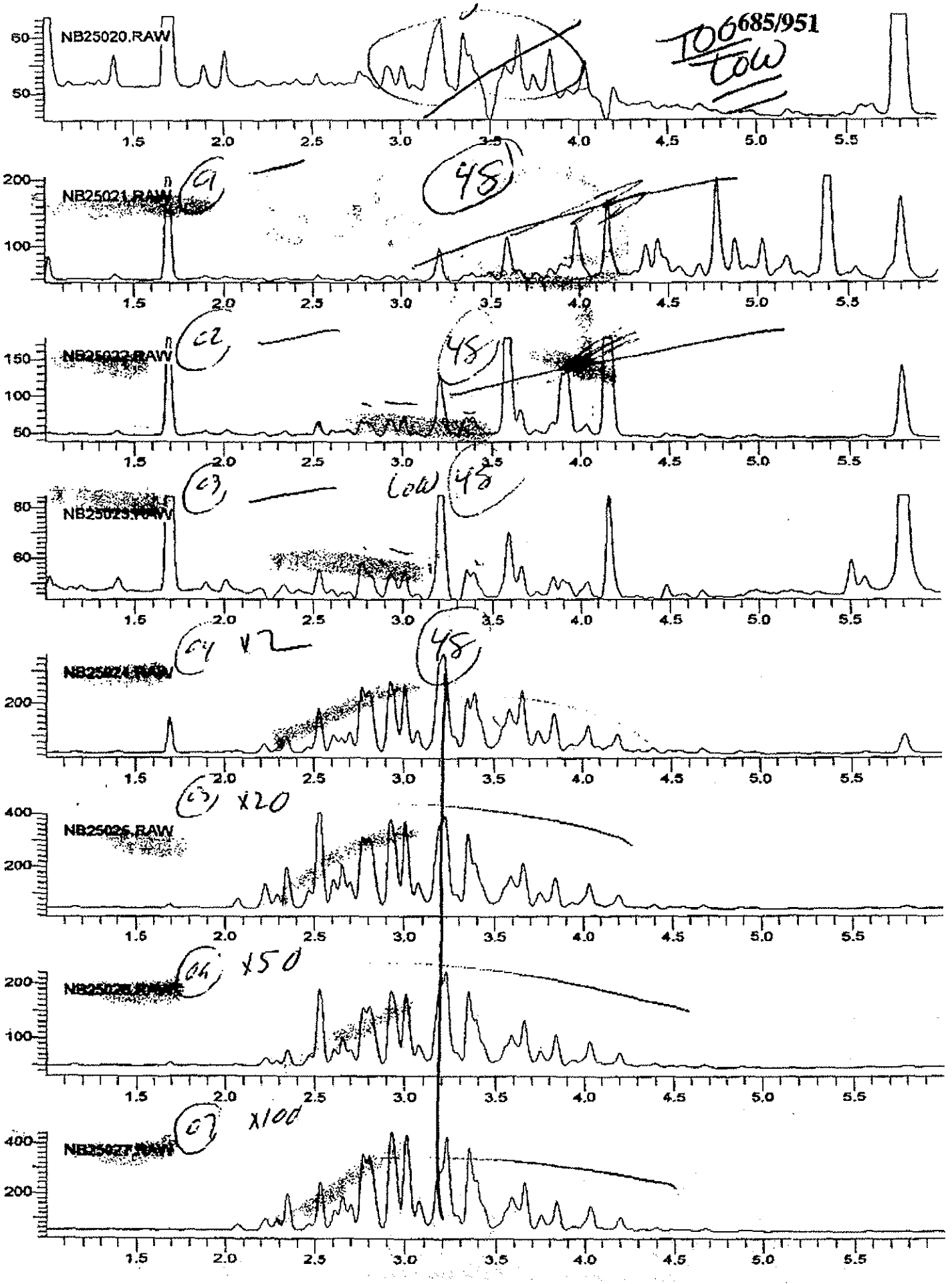


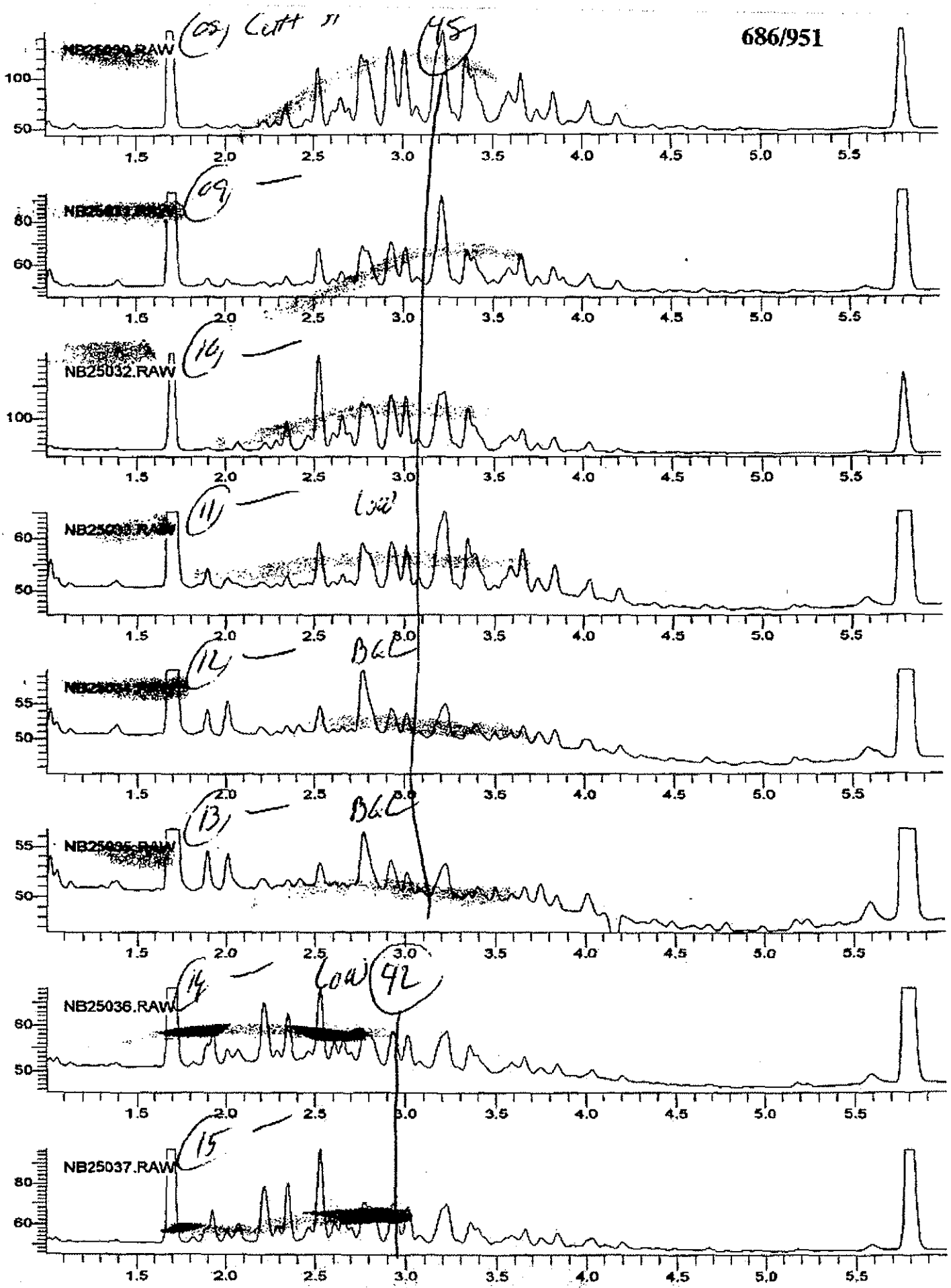
54

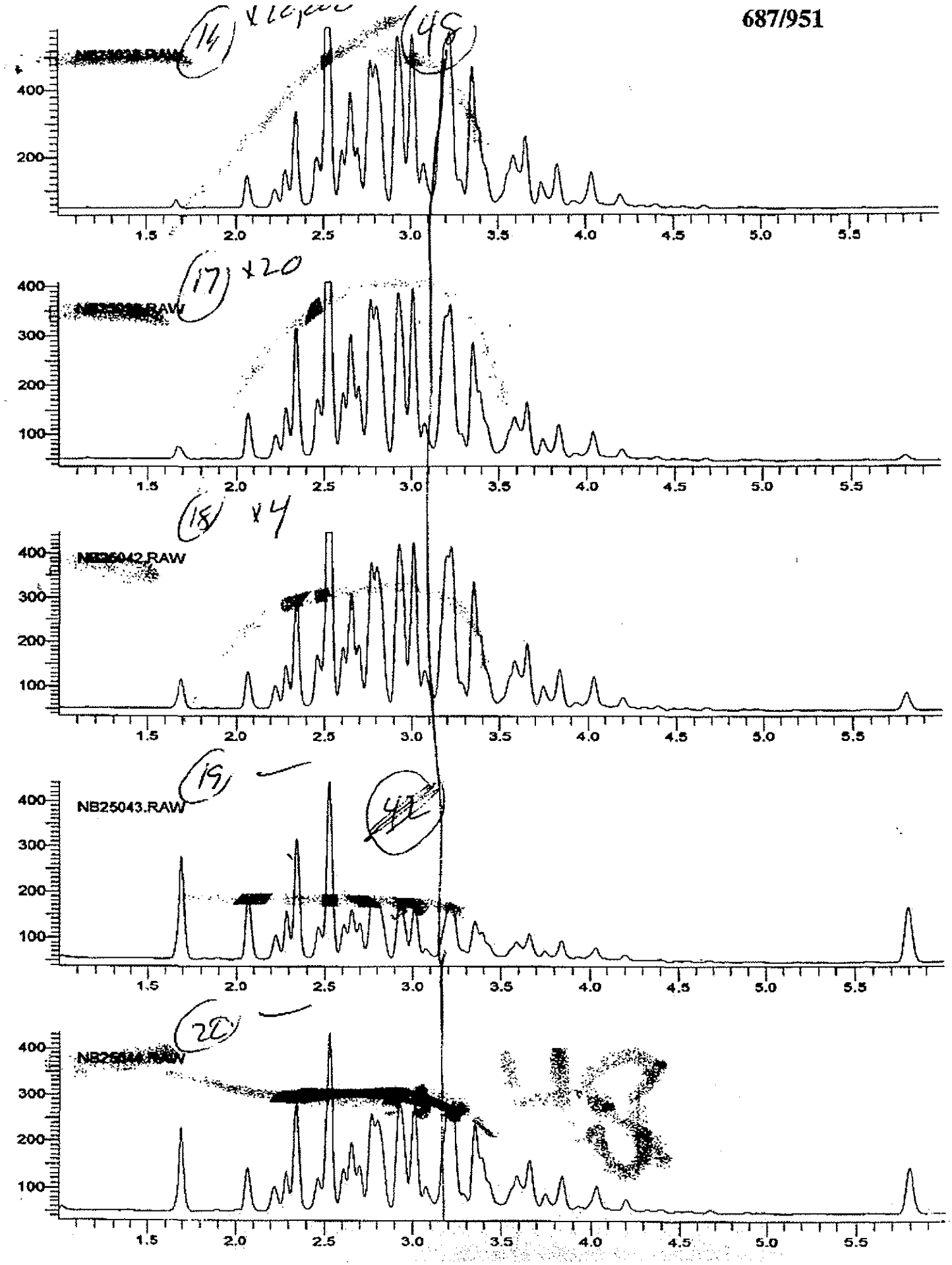


104 1240

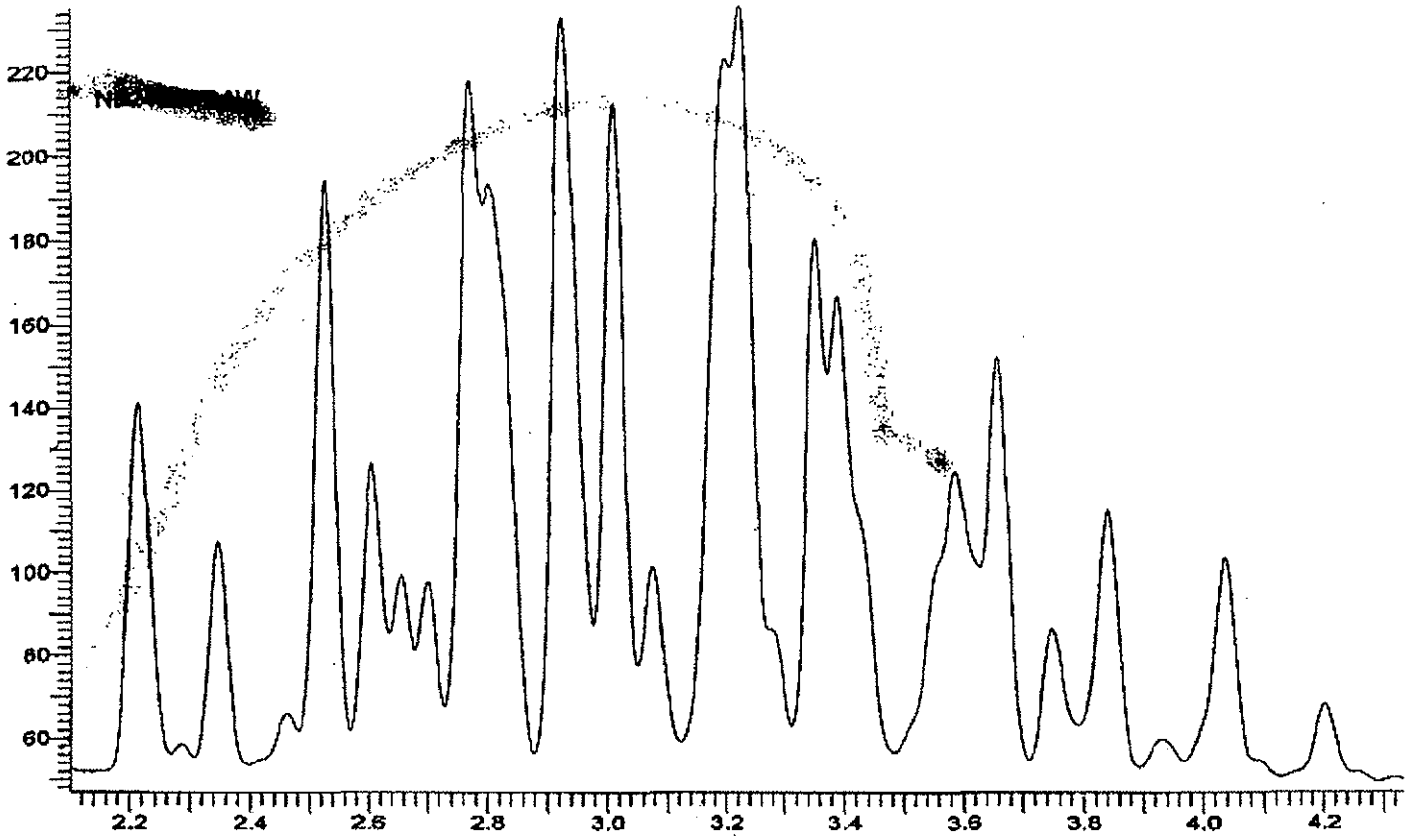



NB25020.RAW
100 low
NB25021.RAW
01
48
NB25022.RAW
02
48
NB25023.RAW
03
low
48
04 x2
48
05 x20
NB25026.RAW
06 x50
07 x100
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5

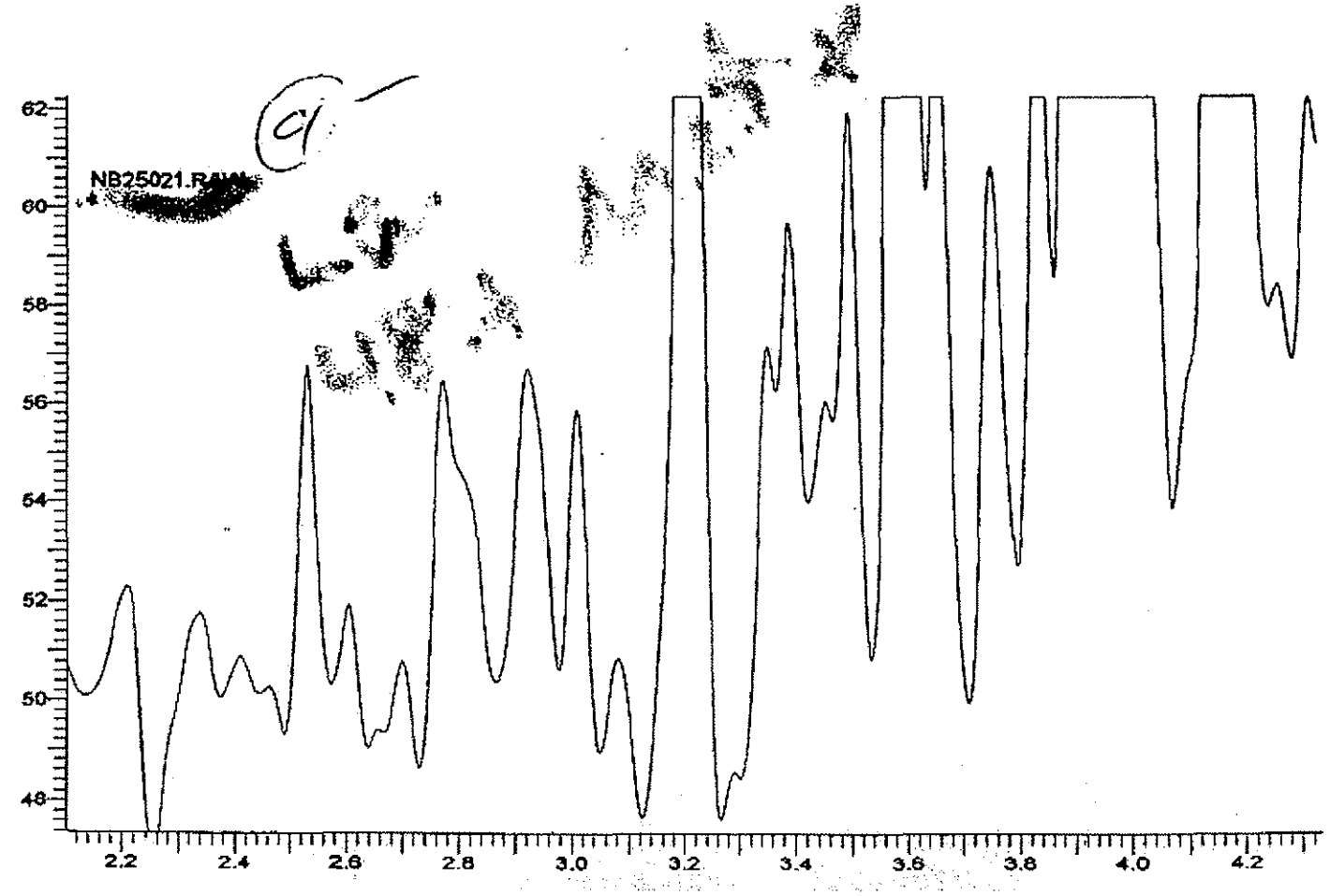

NB25032.RAW
NB25036.RAW
NB25037.RAW
(05) Cutt 11
(45)
(09)
(16)
(11)
Low
(12)
BGC
(13)
BGC
(14)
Low
(42)
(15)
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5


(14) x10,000
(48)
(17) x20
(18) x4
NB25042.RAW
(19)
NB25043.RAW
(22)
48
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5

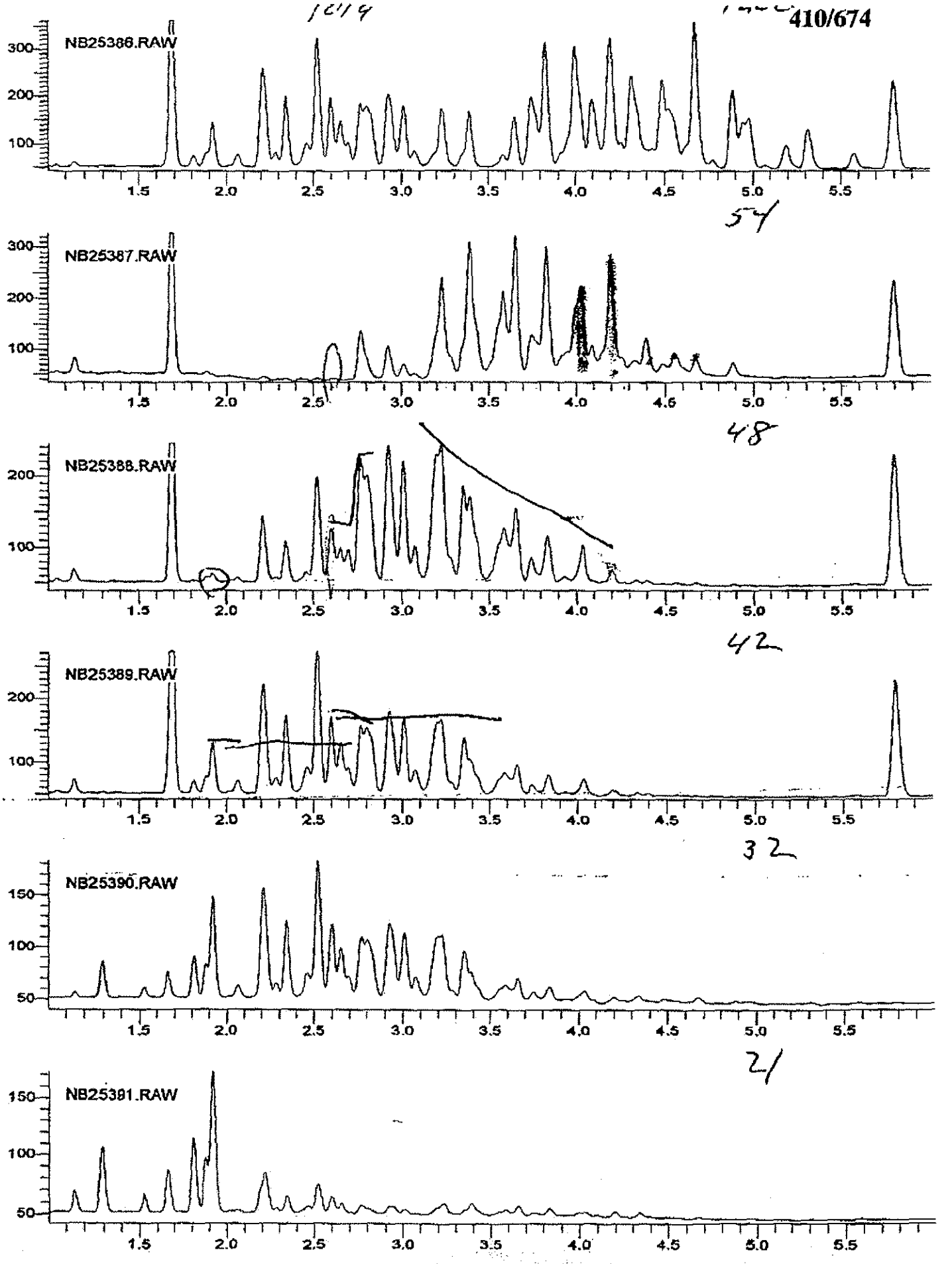
(48)

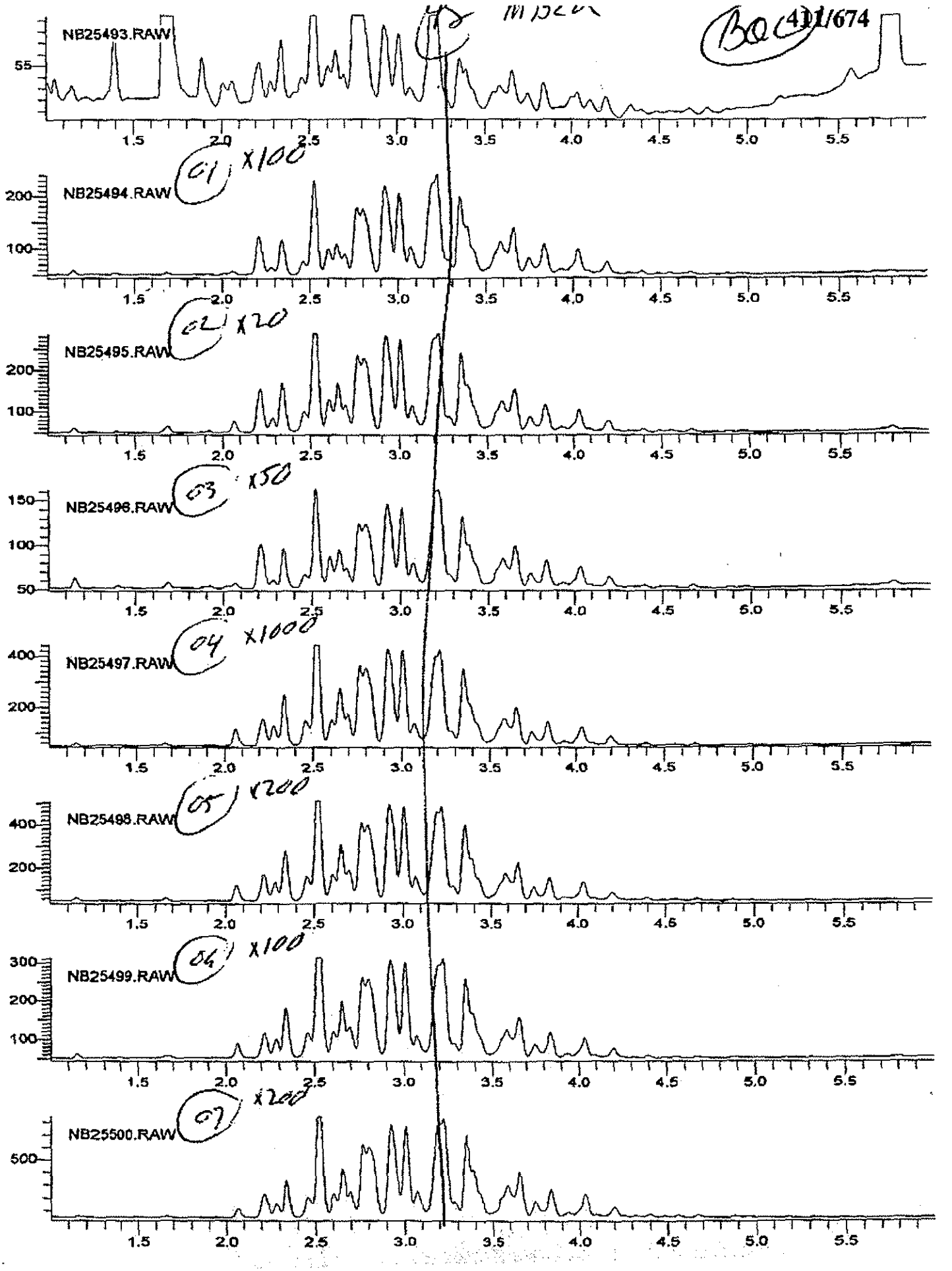

220
200
180
160
140
120
100
80
60
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2

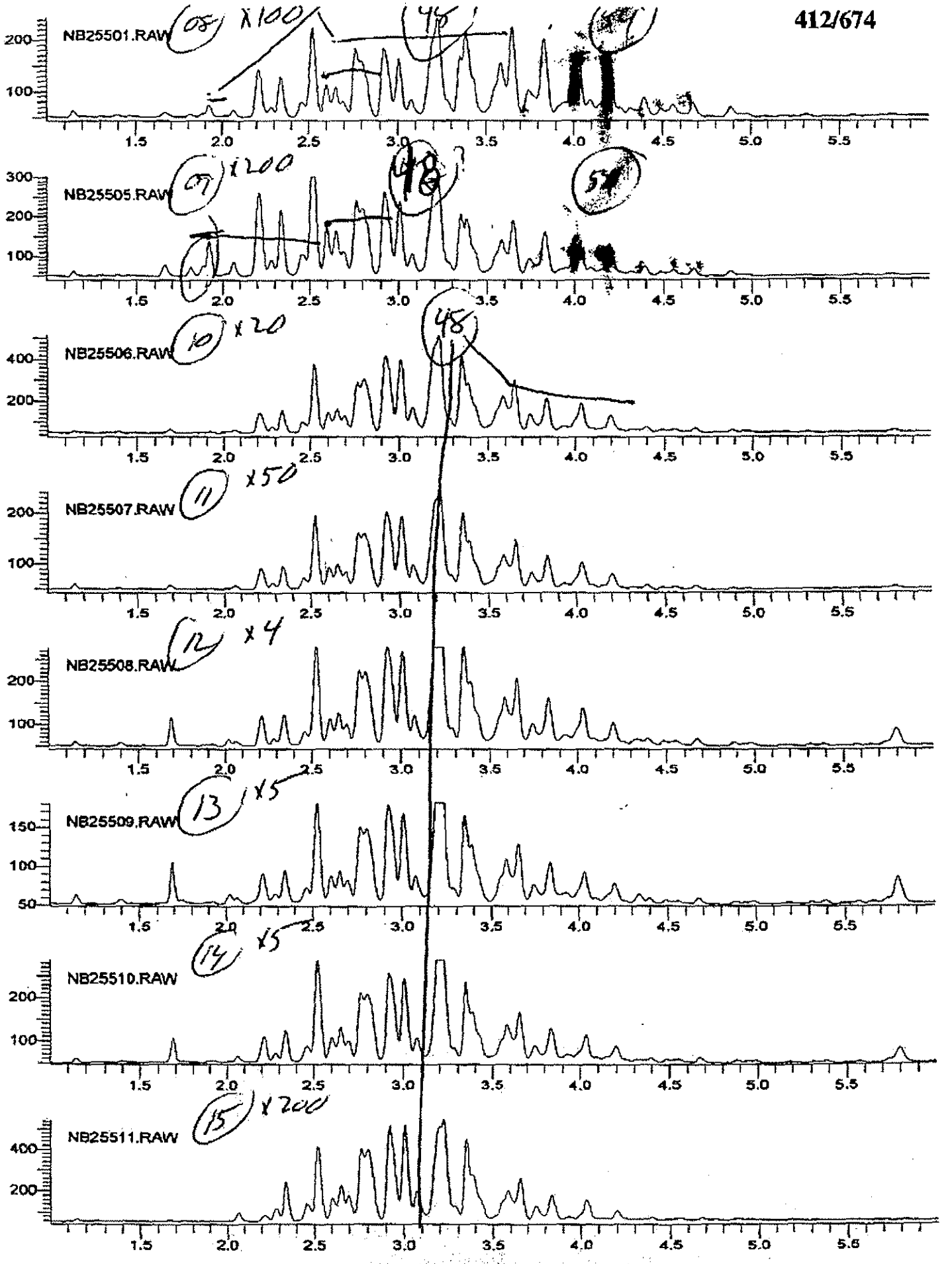
(C)


NB25021.RAW
62
60
58
56
54
52
50
48
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2

SDG 121901


NB25386.RAW
NB25387.RAW
NB25388.RAW
NB25389.RAW
NB25390.RAW
NB25391.RAW
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5


NB25493.RAW
NB25494.RAW
NB25495.RAW
NB25496.RAW
NB25497.RAW
NB25498.RAW
NB25499.RAW
NB25500.RAW
01 X100
02 X20
03 X50
04 X1000
05 X200
06 X100
07 X200
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5


NB25501.RAW
08
x100
48
49
NB25505.RAW
07
x200
48
50
NB25506.RAW
10
x20
48
NB25507.RAW
11
x50
NB25508.RAW
12
x4
NB25509.RAW
13
x5
NB25510.RAW
14
x5
NB25511.RAW
15
x200

Draft for EPA Review

Soil Sampling Data Validation Reports (on CD)

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

Data Validation Reports: Table of Contents

VOLUME 1:

3675 - SDG 121001
3831 - SDG 121901
4077 - SDG 123101
4081 - SDG 121902
4113 - SDG 011402
4121 - SDG 122001
4129 - SDG 120501
4134 - SDG 0114A1
4135 - SDG 010701
4144 - SDG 011401
4148 - SDG 0107A1
4149 - SDG 010901
4157 - SDG 012303
4161 - SDG 012302
4163 - SDG 012101
4173 - SDG 122402
4180 - SDG 0123A1
4181 - SDG 012902
4183 - SDG 012301
4191 - SDG 012701
4197 - SDG 013102
4199 - SDG 020402
4200 - SDG 021604
4202 - SDG 020601
4205 - SDG 020603
4206 - SDG 021104
4208 - SDG 021202
4209 - SDG 021602
4211 - SDG 1212A1
4213 - SDG 021101
4270 - SDG 013104
4278 - SDG 020602
4280 - SDG 020701
4281 - SDG 121002
4282 - SDG 120401
4283 - SDG 121301
4284 - SDG 121801
4285 - SDG 121802
4286 - SDG 121201
4287 - SDG 122401
4289 - SDG 010601
4290 - SDG 072202
4291 - SDG 072201
4292 - SDG 072301
4293 - SDG 072901
4294 - SDG 072801
4295 - SDG 072302
4296 - SDG 070201
4297 - SDG 072802
4298 - SDG 071401
4299 - SDG 070904
4300 - SDG 071402
4305 - SDG 012904
4307 - SDG 021801
4308 - SDG 022002
4309 - SDG 022003
4310 - SDG 021601
4311 - SDG 021603
4312 - SDG 010702
4313 - SDG 082502
4314 - SDG 081802
4316 - SDG 0917EH
4317 - SDG 1001EH
4318 - SDG 0913EH
4319 - SDG 042301
4320 - SDG 042001
4321 - SDG 042601
4322 - SDG 041601
4323 - SDG 041602
4330 - SDG 070301
4331 - SDG 071004
4333 - SDG 070801
4334 - SDG 070802
4335 - SDG 0701
4336 - SDG 042302
4337 - SDG 042603
4338 - SDG 042801
4340 - SDG 042802
4341 - SDG 043001
4342 - SDG 043002
4343 - SDG 051901
4348 - SDG 021201
4349 - SDG 012903
4350 - SDG 013101
4351 - SDG 020401
4352 - SDG 021102
4354 - SDG 081402

VOLUME 2:

4355 - SDG 081801
4356 - SDG 081401
4357 - SDG 082301
4358 - SDG 081203
4359 - SDG 081901
4360 - SDG 082601
4361 - SDG 082501
4362 - SDG 082602
4363 - SDG 081202
4364 - SDG 080402
4365 - SDG 081201
4366 - SDG 081101
4367 - SDG 080401
4368 - SDG 073001
4369 - SDG 080901
4370 - SDG 080601
4373 - SDG 012901
4382 - SDG 010804
4392 - SDG 081701