



February 17, 2009

Ms. Alyssa Hughes  
On-Scene Coordinator  
U.S. Environmental Protection Agency, Region 4  
61 Forsyth Street, SW, 11th Floor  
Atlanta, Georgia 30303

**Subject: Borehole Logs  
Southeastern Wood Preserving  
Canton, Madison County, Mississippi  
EPA Contract No. EP-W-05-054  
TDD No. TTEMI-05-003-0035**

Dear Ms. Hughes:

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting the borehole logs for the Southeastern Wood Preserving site located in Canton, Madison County, Mississippi. The borehole logs reflect visual assessment of 29 boreholes drilled by the EPA Kerr Laboratory drilling crew under the direction of Mr. Edward Bates and cataloged by START member Charles Berry. The borehole logs are attached here as Appendix A. Also attached is a figure depicting the borehole locations. Boreholes in which free product was encountered are highlighted in red.

The soil at the Southeastern Wood Preserving site in Canton is characterized by a series of sediments which generally grade between silt and clay. Some small pebbles are present, particularly two distinct layers between 16 and 24 feet below ground surface (bgs) which were present in all but a few of the holes. The lower of these 2 layers, usually separated by a foot or two of thick clay, served as a marker layer as it generally defined the lower limit where free product was encountered, with the exception of Borehole P3, where product was encountered throughout the complete depth of 30 feet.

Free product is denoted on the boreholes on a three-tiered scale, with the first tier being free product which slowly evolves from the core sample. Termed a “weep”, this type of flow is typical of a very tight soil matrix and may not be truly characteristic of the amount of actual product contained in the soil. The second tier is used to describe cores which exhibit free mobile product but not a saturated matrix. The highest tier identifies a fully saturated matrix. The three tiers are represented by a corresponding number of symbols in the “Product” column on each borehole.

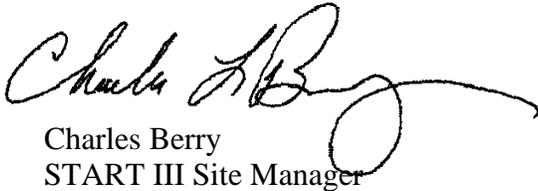
Staining is similarly treated using light, moderate, and heavy as descriptors, represented by increasingly darker shading in the “Staining” column. Standard colors were not used in this instance. The terms used here are merely relative to other soils encountered in the boreholes on site and were decided on using the professional judgments of Mr. Bates and Mr. Berry. The

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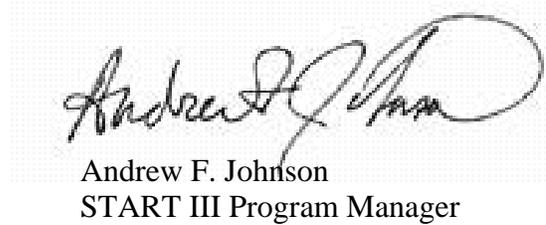
staining feature is not as indicative of the presence of product as staining can have many natural sources, such as oxidation spots and naturally occurring organic matter.

If you have any questions or need additional copies of this report, please call me at (678) 775-3098 or Brian Croft at (678) 775-3113.

Sincerely,



Charles Berry  
START III Site Manager



Andrew F. Johnson  
START III Program Manager

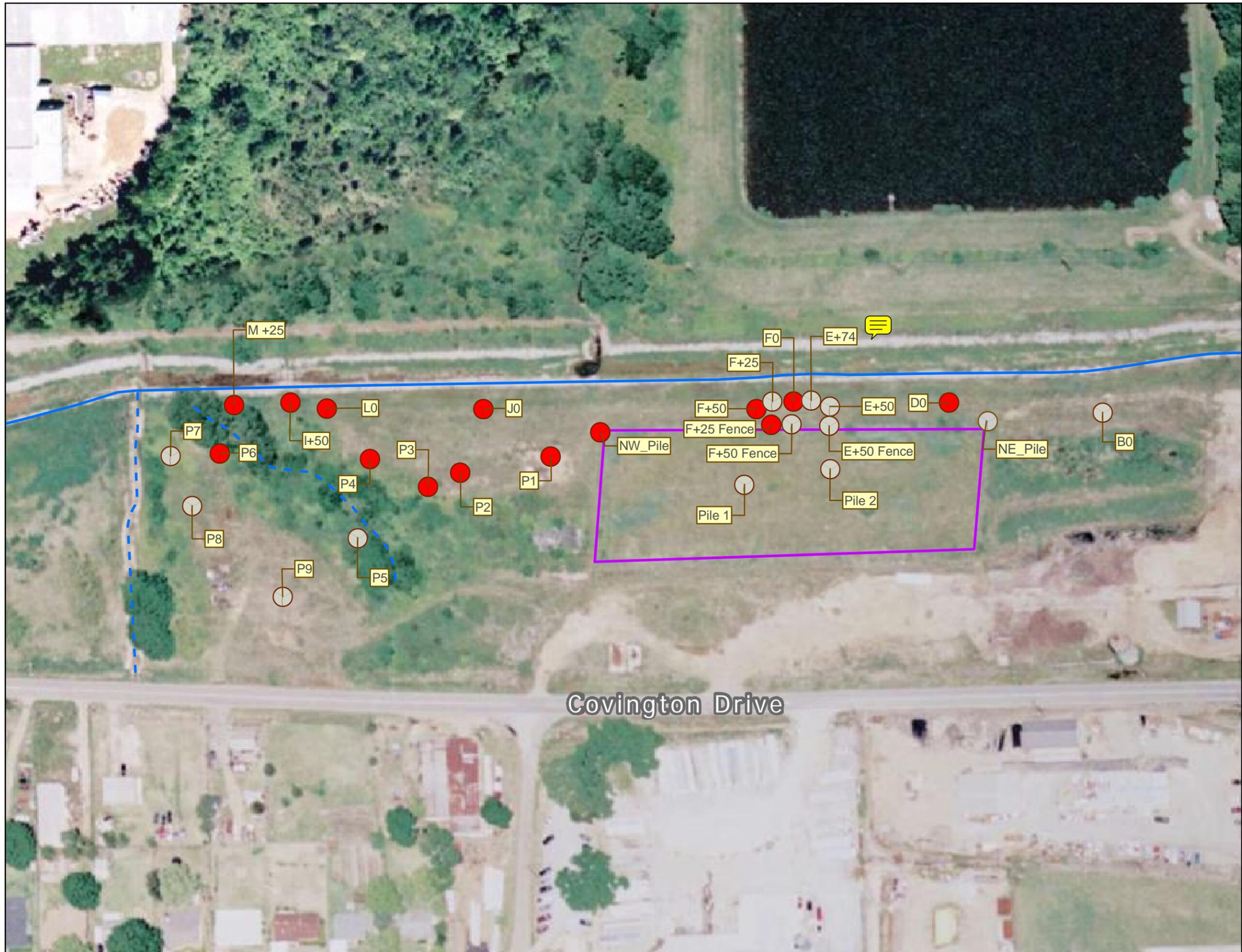
Enclosures (2)

cc: Katrina Jones, EPA Project Officer  
Darryl Walker, EPA Alternate Project Officer  
Brian Croft, START III Task Order Manager  
Angel Reed, START III Document Control Coordinator

**ENCLOSURE 1**

**SOIL BORINGS LOCATION MAP**

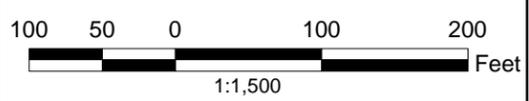
(1 Page)



**LEGEND**

-  Soil Boring
-  Soil Boring with Mobile Product
-  Batchelor Creek
-  Drainage Ditch
-  Stockpile

Note:  
Aerial Photograph: DigitalGlobe/Globe Explorer, 2007.



SOUTHEASTERN WOOD PRESERVING  
CANTON,  
MADISON COUNTY,  
MISSISSIPPI  
TDD No. TTEMI-05-003-0035

**SOIL BORINGS  
LOCATION MAP**



2008-06-27 IGIS Workspace\TTEMI-05-003-0035 Southeastern Wood Preserving\Figures\GIS\MXDs\Proposed Sample Location Maps\SE\_WOOD\_PROP\_SOIL-GWTR\_SAMPLE\_LOCS\_11x17\_10-13-08-2608.mxd TTEMI-D4\_courtesy.rden

**ENCLOSURE 2**

**BOREHOLE LOGS**

(30 Pages)



BORING ID: B0  
 WELL ID: N/A  
 TOTAL FOOTAGE: 20  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

<b>Casing</b>	<b>Sampler</b>	<b>Groundwater</b>	<b>Survey</b>
Type: N/A	Type: N/A	Date: N/A	Lat. _____
Size: N/A	Size: N/A	WL (ref.): N/A	Long. _____
		WL (bgs): N/A	Elev. _____
		GW Elev.: N/A	

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Gravel fill, possibly the remnants of an old railroad bed.		Soil boring location only. No well installed.
		2				
		3				
		4		Gray clayey silt. Moderate odor.		
		5				
		6				
		7				
		8				
		9		Tan and gray mottled silty clay. Slight staining at 10' bgs.		
		10				
		11				
		12				
		13				
		14				
		15				
		16				
		17		Pebbly, silty clay. Stained at contacts.		
		18		Tan and gray mottled slightly silty clay fining with depth.		
		19				
		20				

Notes: No well was installed at this location.



BORING ID: D0  
 WELL ID: N/A  
 TOTAL FOOTAGE: 32  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing Type: N/A Size: N/A	Sampler Type: N/A Size: N/A	Groundwater Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	Survey Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 Water level during drilling.

Product	Odor	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
			1		Reddish brown clayey silt fill.		Soil boring location only. No well installed.
			2				
			3				
			4		Gray silty clay. Slight staining noted. Slight product weep at 7' bgs.		
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				
			13				
			14				
			15				
			16				
			17				
			18				
			19				
			20				
			21		Pebbly silty clay. Staining at contacts.		
			22		Gray and tan clay. Slight staining		
			23		Pebbly silty clay. Staining at contact		
			24		Gray and tan clay. Stains lightening with depth.		
			25				
			26				
			27				
			28				
			29				
			30				
			31				
			32				

Notes: No well was installed at this location.



**TETRA TECH**

BORING ID: E+50  
 WELL ID: N/A  
 TOTAL FOOTAGE: 24  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing  
 Type: N/A  
 Size: N/A

Sampler  
 Type: N/A  
 Size: N/A

Groundwater  
 Date: N/A  
 WL (ref.): N/A  
 WL (bgs): N/A  
 GW Elev.: N/A

Survey  
 Lat. \_\_\_\_\_  
 Long. \_\_\_\_\_  
 Elev. \_\_\_\_\_

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08

∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Sandy silty clayey fill with wooden layer as bottom demarcation. Likely a railroad tie based on visual observation. Staining and odor noted starting at 4'bgs.		Soil boring location only. No well installed.
		2				
		3				
		4				
		5				
		6		Grey silt. Noticeable odor but no free product.		
		7				
		8				
		9				
		10				
		11		Gray and tan mottled clay with silt and pebble inclusions. Some staining at pebble contacts, but possibly from oxidation.		
		12				
		13				
		14				
		15				
		16				
		17				
		18				
		19				
		20		Pebbly clay with staining at contacts.		
		21				
		22				
		23		Gray clay thickening with depth. No stains.		

Notes: No well was installed at this location.



**TETRA TECH**

BORING ID: E+50\_FENCE  
 WELL ID: N/A  
 TOTAL FOOTAGE: 8  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing  
 Type: N/A  
 Size: N/A

Sampler  
 Type: N/A  
 Size: N/A

Groundwater  
 Date: N/A  
 WL (ref.): N/A  
 WL (bgs): N/A  
 GW Elev.: N/A

Survey  
 Lat. \_\_\_\_\_  
 Long. \_\_\_\_\_  
 Elev. \_\_\_\_\_

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08

∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Brown sandy, silty, clayey fill.		The tar layer is very asphaltine, with little or no volatile constituents.
		2				
		3				
		4				
		5		Black tar 3" thick. Slight odor.		
		6		Brown/gray silt grading finer with depth to a gray and tan silty clay. Slight odor at 6' bgs.		
		7				
		8				

Notes: No well was installed at this location.



BORING ID: E+74  
 WELL ID: N/A  
 TOTAL FOOTAGE: 8  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing	Sampler	Groundwater	Survey
Type: N/A	Type: N/A	Date: N/A	Lat. _____
Size: N/A	Size: N/A	WL (ref.): N/A	Long. _____
		WL (bgs): N/A	Elev. _____
		GW Elev.: N/A	

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1	[Cross-hatched pattern]	Light tan clayey silty fill. No odor at top of section, but noted at 3' bgs.	[Shaded vertical bar]	Soil boring location only. No well installed.
		2				
		3				
		4				
		5				
		6				
	[Shaded box]	7	[Cross-hatched pattern]	6" layer of wood chips with strong odor.	[Shaded vertical bar]	
		8	[Horizontal lines pattern]	Grey and tan mottled clay. Odor diminishing.		

Notes: No well was installed at this location.



BORING ID: F0\_Fence  
 WELL ID: N/A  
 TOTAL FOOTAGE: 12  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing	Sampler	Groundwater	Survey
Type: N/A	Type: N/A	Date: N/A	Lat. _____
Size: N/A	Size: N/A	WL (ref.): N/A	Long. _____
		WL (bgs): N/A	Elev. _____
		GW Elev.: N/A	

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Organic topsoil.		Soil boring location only. No well installed.
		2		Tan clayey silty fill.		
		3		Tan and gray clayey silt. Very dry.		
		4				
		5		Gray silty clay. Light odor.		
		6				
		7				
		8		Tan and gray mottled silty clay grading finer downhole to a silty clay. Light odor.		
		9				
		10				
		11				
		12				

Notes: No well was installed at this location.



BORING ID: F0\_Offset  
 WELL ID: N/A  
 TOTAL FOOTAGE: 8  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:  
 Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

<b>Casing</b> Type: N/A Size: N/A	<b>Sampler</b> Type: N/A Size: N/A	<b>Groundwater</b> Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	<b>Survey</b> Lat. _____ Long. _____ Elev. _____
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Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Topsoil.		
		2		Reddish brown clayey silty fill. Some organic staining visible at 2, 5, and 6' bgs. No odor. No product.		Soil boring location only. No well installed.
		3				
		4				
		5				
		6				
		7				
		8		A 6" black organic layer with a strong odor and a trace of free product. Immediately underlain by what appears to be a native stiff gray clay. Odor diminishing with depth. No staining of clay evident. No product noticed.		

Notes: No well was installed at this location.



BORING ID: F+25  
 WELL ID: N/A  
 TOTAL FOOTAGE: 6  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

<u>Casing</u> Type: N/A Size: N/A	<u>Sampler</u> Type: N/A Size: N/A	<u>Groundwater</u> Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	<u>Survey</u> Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Gray clayey silty fill. No odor or product until 5' bgs. Soil becomes rapidly saturated with free-flowing product and overwhelming odor. Soil is completely black with staining.		Soil boring location only. No well installed.
		2				
		3				
		4				
		5				
		6				

Notes: No well was installed at this location.



BORING ID: F+25\_Fence  
 WELL ID: N/A  
 TOTAL FOOTAGE: 8  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving

Drilling Co.: EPA Kerr Laboratory

Address: Covington Drive  
 Canton, MS

Drill Method: Direct Push  
 Driller:

Casing	Sampler	Groundwater	Survey
Type: N/A	Type: N/A	Date: N/A	Lat. _____
Size: N/A	Size: N/A	WL (ref.): N/A	Long. _____
		WL (bgs): N/A	Elev. _____
		GW Elev.: N/A	

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ▽ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Organic topsoil.		Soil boring location only. No well installed.
		2		Clayey silty fill.		
		3		Red silty clay fill. No odor.		
		4				
		5				
		6		Gray silty clay with oxidized pebble incursions. Slight odor beginning at 7' bgs.		
		7				
		8				

Notes: No well was installed at this location.



BORING ID: F+50  
 WELL ID: N/A  
 TOTAL FOOTAGE: 24  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing Type: N/A Size: N/A	Sampler Type: N/A Size: N/A	Groundwater Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	Survey Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Tan sandy, clayey, silty fill		Incomplete recovery from 0-8 feet. Exact depth of contact may be inaccurate.
		2				
		3				
		4				
		5		Black sandy, pebbly, silty, clay saturated with creosote. An overpowering odor and freely flowing product.		
		6				
		7				
		8		Grey pebbly, silty clay becoming increasingly finer with depth. Staining and free product moderate at 10 feet bgs. Otherwise light at occasional pebble contacts.		
		9				
		10				
		11				
		12				
		13				
		14				
		15				
		16				
		17				
		18		Pebbly silty clay with staining at contacts.		
		19				
		20				
		21		Mottled gray and tan pebbly, silty clay becoming increasingly finer and less stained with depth.		
		22				
		23				
		24				

Notes: No well was installed at this location.



BORING ID: H0  
 WELL ID: N/A  
 TOTAL FOOTAGE: 12 (12-28 bgs)  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

<u>Casing</u> Type: N/A Size: N/A	<u>Sampler</u> Type: N/A Size: N/A	<u>Groundwater</u> Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	<u>Survey</u> Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
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<b>NOT RECOVERED</b>		1	<b>NOT RECOVERED</b>				
		2					
		3					
		4					
		5					
		6					
		7					
		8					
		9					
		10					
		11					
		12					
		13		Dark brown silty clay with small pebble inclusions. Staining at contacts. Moderate odor.			
		14		Dark brown clayey silt with small pebble inclusions. Staining at contacts. Moderate odor.			
		15					
		16					
		17					
		18		Silt mottled grey and tan clay. Very slight odor.			
		19					
		20					
		21		Pebbly silty clay. Heavily stained at contacts. Slight odor.			
		22					
		23		Silt mottled grey and tan clay. Very slight odor decreasing with depth			
		24					

Notes: No well was installed at this location.



BORING ID: J0  
 WELL ID: N/A  
 TOTAL FOOTAGE: 12-24  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing Type: N/A Size: N/A	Sampler Type: N/A Size: N/A	Groundwater Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	Survey Lat: _____ Long: _____ Elev: _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
---------	----------	------------	-----------	------------------	-----------------	-------

<i>Not Recovered</i>		1	<i>Not Recovered</i>			
		2				
		3				
		4				
		5				
		6				
		7				
		8				
		9				
		10				
		11				
		12				

		13		Gray and tan silty clay, grading finer with depth.		
●●		14				
●●		15				
		16				
●		17				
		18				
		19				
		20		Pebbly clayey silt.		
		21		Stiff tan and gray clay.		
		22		Pebbly clayey silt.		
		23		Stiff tan and gray clay.		
		24				

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Notes: No well was installed at this location.



BORING ID: L0  
 WELL ID: N/A  
 TOTAL FOOTAGE: 24  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

<u>Casing</u> Type: N/A Size: N/A	<u>Sampler</u> Type: N/A Size: N/A	<u>Groundwater</u> Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	<u>Survey</u> Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Dark gray silty clay.		Soil boring location only. No well installed.
		2				
		3				
		4				
		5		Tan silty clay with slight staining.		
		6				
		7				
		8		Dark gray clay with moderate odor and traces of free product.		
		9				
		10				
		11				
		12				
		13				
		14				
		15				
		16		Pebbly silty clay with staining at contacts.		
		17				
		18		Dark gray clay.		
		19				
		20		Pebbly silty clay with staining at contacts.		
		21				
		22		Tan and gray mottled stiff clay.		
		23				
		24				

Notes: No well was installed at this location.



BORING ID: L+50  
 WELL ID: N/A  
 TOTAL FOOTAGE: 20  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing  
 Type: N/A  
 Size: N/A

Sampler  
 Type: N/A  
 Size: N/A

Groundwater  
 Date: N/A  
 WL (ref.): N/A  
 WL (bgs): N/A  
 GW Elev.: N/A

Survey  
 Lat. \_\_\_\_\_  
 Long. \_\_\_\_\_  
 Elev. \_\_\_\_\_

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08

Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Moist pebbly, sandy, clayey silt fill. Little staining evident.		Soil boring location only. No well installed.
		2				
		3				
		4		Gray clay with some fine silt. Dark organic staining evident.		
		5				
		6		Stiff gray clay. Dark organic staining continues.		
		7				
		8				
		9				
		10				
		11		Silty clay.		
		12				
		13		Pebbly, silty gray clay with black staining at pebble contacts.		
		14				
		15		Tan and gray mottled clay.		
		16				
		17				
		18		Pebbly, silty gray clay with black staining at pebble contacts.		
		19				
		20		Tan and gray mottled clay with staining rapidly decreasing with depth.		

Notes: No well was installed at this location.



BORING ID: M+25  
 WELL ID: N/A  
 TOTAL FOOTAGE: 23  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing  
 Type: N/A  
 Size: N/A

Sampler  
 Type: N/A  
 Size: N/A

Groundwater  
 Date: N/A  
 WL (ref.): N/A  
 WL (bgs): N/A  
 GW Elev.: N/A

Survey  
 Lat. \_\_\_\_\_  
 Long. \_\_\_\_\_  
 Elev. \_\_\_\_\_

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08

▽ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Dark organic silty clay.		Soil boring location only. No well installed.
		2				
		3		Sandy fill.		
		4				
		5				
		6				
		7		Dark gray stiff clay with stiffness increasing with depth. Staining and odor increasing to 9 feet bgs then decreasing with depth. Free product observed weeping at 12'-14' bgs.		
		8				
		9				
		10				
		11				
		12				
		13				
		14				
		15				
		16		Pebbly silty clay with staining at contacts.		
		17		Dark gray slightly silty clay.		
		18				
		19		Pebbly silty clay with staining at contacts.		
		20		Tan and gray mottled stiff clay with staining decreasing with depth.		
		21				
		22				
		23				

Notes: No well was installed at this location.



BORING ID: NE\_Pile  
 WELL ID: N/A  
 TOTAL FOOTAGE: 16  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

<u>Casing</u> Type: N/A Size: N/A	<u>Sampler</u> Type: N/A Size: N/A	<u>Groundwater</u> Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	<u>Survey</u> Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes	
		1		Tan clayey silty fill.		Soil boring location only. No well installed.	
		2					
		3					
		4		Dark stained wood chips. Light odor.			
		5		Gray and tan sandy clay.			
		6		Gray silty clay.			
		7					
		8					
		9					
		10					
		11					
		12					
		13					
		14		Tan and gray stiff clay.			
		15					
		16					

Notes: No well was installed at this location.



BORING ID: NW\_Pile  
 WELL ID: N/A  
 TOTAL FOOTAGE: 28  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing  
 Type: N/A  
 Size: N/A

Sampler  
 Type: N/A  
 Size: N/A

Groundwater  
 Date: N/A  
 WL (ref.): N/A  
 WL (bgs): N/A  
 GW Elev.: N/A

Survey  
 Lat. \_\_\_\_\_  
 Long. \_\_\_\_\_  
 Elev. \_\_\_\_\_

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08

∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Brown clayey, silty fill with a dark organic stain 1-2' bgs.		Soil boring location only. No well installed.
		2				
		3		Sand fill.		
		4		A thin layer of dark organic material underlain by a gray silty clay which fines with depth, becoming a tan and gray mottled silty clay. Moderate odor throughout section. Staining very light throughout except for the first thin organic layer. Free product weeps noted from 8 to 10' bgs.		
		5				
		6				
		7				
		8				
●		9				
●		10				
		11				
		12				
		13				
		14				
		15				
		16				
		17	Pebbly, silty clay. Heavily stained.			
		18	Silty, slightly pebbly clay. Heavily stained. Moderate odor.			
		19	Pebbly, silty clay. Heavily stained. Moderate odor. No free product noted.			
		20				
		21	Tan and gray mottled stiff clay with decreasing pebble inclusions, staining, and odor with depth.			
		22				
		23				
		24				
		25				
		26				
		27				
		28				

Notes: No well was installed at this location.



BORING ID: P1  
 WELL ID: N/A  
 TOTAL FOOTAGE: 24  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

<u>Casing</u>	<u>Sampler</u>	<u>Groundwater</u>	<u>Survey</u>
Type: N/A	Type: N/A	Date: N/A	Lat. _____
Size: N/A	Size: N/A	WL (ref.): N/A	Long. _____
		WL (bgs): N/A	Elev. _____
		GW Elev.: N/A	

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Topsoil and gravel cap fill.		
		2		Clayey cap fill.		
		3		Grey silty clay. Heavily stained decreasing to moderate at 7 feet. Strong odor. Free product observed at 6' bgs.		Soil boring location only. No well installed.
		4				
		5				
		6				
		7		Tan and gray mottled silty clay. Light staining at larger grain contacts. Slight odor throughout section.		
		8				
		9				
		10				
		11				
		12				
		13				
		14				
		15		Pebbly silty clay with staining at contacts.		
		16				
		17				
		18		Tan and gray silty clay.		
		19		Pebbly silty clay with staining at contacts.		
		20		Tan and gray mottled silty clay. Very light staining at 20' bgs disappearing by 24' bgs. No odor.		
		21				
		22				
		23				
		24				

Notes: No well was installed at this location.



BORING ID: P2  
 WELL ID: N/A  
 TOTAL FOOTAGE: 24  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing Type: N/A Size: N/A	Sampler Type: N/A Size: N/A	Groundwater Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	Survey Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Sandy clay fill		Soil boring location only. No well installed.
		2		Tan and gray silty clay grading finer downhole to a gray and tan clay. Heavy staining down to 6 feet, becoming lighter.		
		3				
		4				
		5				
		6				
		7				
		8		Gray silty clay with only slight staining.		
		9				
		10				
		11				
		12				
		13				
		14		Interlayered pebbly silty clay with significant iron staining at pebble contacts.		
		15				
		16				
		17				
		18				
		19				
		20		Stiff mottled gray and tan clay becoming less stained with depth, eventually clearing up.		
		21				
		22				
		23				
		24				

Notes: No well was installed at this location.



TETRA TECH

BORING ID: P3

WELL ID: N/A

TOTAL FOOTAGE: 36

TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
Address: Covington Drive  
Canton, MS

Drilling Co.: EPA Kerr Laboratory  
Drill Method: Direct Push  
Driller:

Casing  
Type: N/A  
Size: N/A

Sampler  
Type: N/A  
Size: N/A

Groundwater  
Date: N/A  
WL (ref.): N/A  
WL (bgs): N/A  
GW Elev.: N/A

Survey  
Lat. \_\_\_\_\_  
Long. \_\_\_\_\_  
Elev. \_\_\_\_\_

Rig Type: 6610DT  
Start Date: 09/22/08  
Finish Date: 10/01/08

▽ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Gravelly silt. Heavily stained. Light odor.		Soil boring location only. No well installed.
		2		Fine silt. Heavily stained. Odor increasing with depth.		
		3				
		4		Gray clayey silt becoming tan and gray with increasing depth. Heavily stained. Moderate odor. Free product moderate from 3 to 5' bgs.		
		5				
		6				
		7				
		8				
		9		Tan and gray mottled silty clay with iron inclusions. Heavy staining decreasing with depth. Moderate odor.		
		10				
		11				
		12				
		13				
		14				
		15		Pebbly clayey silt. Odor increases.		
		16		Tan and gray mottled silty clay.		
		17		Pebbly clayey silt. Free product noted.		
		18		Tan and gray mottled silty clay fining with depth. Staining at contacts of larger grains.		
		19				
		20				
		21		Tan and gray mottled stiff clay. Light odor and staining at top of section. Free product weep and moderate odor at 23' bgs.		
		22				
		23				
		24				
		25		Tan and gray mottled clay with interspersed sandy silty lenses. Staining at contacts of lenses and clay.		
		26				
		27				
		28				
		29		Tan and gray mottled clayey silt.		
		30		Tan and gray mottled pebbly silt. Heavy odor. Moderate staining at contacts. Free product at 31' bgs.		
		31				
		32		Tan and gray mottled stiff clay. Light staining		
		33				
		34		Greenish gray thick clay. Light odor. Product weeps observed.		
		35				
		36				

Notes: No well was installed at this location.



BORING ID: P4  
 WELL ID: N/A  
 TOTAL FOOTAGE: 32  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing Type: N/A Size: N/A	Sampler Type: N/A Size: N/A	Groundwater Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	Survey Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Gravelly soil. Light odor. Organic stains.		Soil boring location only. No well installed.
		2		Reddish sandy silty clay fill material. Odor increasing with depth.		
		3				
		4		Gray clayey silt. Strong odor and free product from 4-6' bgs.		
		5				
		6				
		7		Reddish gray silt. Very dense. Strong odor and staining throughout section. No free product.		
		8				
		9				
		10				
		11		Gray silty clay. Strong odor and moderate staining throughout section. Free product from 12-15' bgs.		
		12				
		13				
		14				
		15				
		16		Pebbly silt. Stained at contacts.		
		17		Gray silty clay. Moderate staining.		
		18				
		19		Pebbly clayey silt. Heavily stained at contacts. Strong odor. No product noted.		
		20				
		21		Tan and gray mottled slightly silty clay with some pebble inclusions. A 2" pebble layer at 22' bgs has mobile product. Staining lightens throughout section.		
		22				
		23				
		24				
		25		Tan and gray mottled stiff clay. Dark staining throughout. Light odor.		
		26				
		27				
		28				
		29		Tan and greenish gray mottled stiff clay turning uniformly gray with depth. Slight odor throughout.		
		30				
		31				
		32				

Notes: No well was installed at this location.



BORING ID: P5  
 WELL ID: N/A  
 TOTAL FOOTAGE: 20  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing Type: N/A Size: N/A	Sampler Type: N/A Size: N/A	Groundwater Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	Survey Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Reddish clayey silty fill.		Soil boring location only. No well installed.
		2				
		3				
		4		Light gray sandy silty fill.		
		5		Light gray clayey silt. Very compact. No staining or odor noted.		
		6				
		7				
		8		Greenish gray silty clay. Slight staining and odor noted in top of section. Free product weeping from 9 to 10' bgs.		
●		9				
●		10				
		11				
●		12		Pebbly silty clay. Odor and staining with free product weep.		
●		13				
		14		Tan and gray mottled clay with pebble inclusions. Staining at contacts, but no odor.		
●		15				
●		16		Pebbly silty clay. Odor and staining with free product weep.		
●		17				
●		18		Tan and gray mottled clay with slight pebble inclusions.		
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				
		27				
		28				
		29				
		30				
		31				
		32				
		33				
		34				
		35				
		36				

Notes: No well was installed at this location.



BORING ID: P6  
 WELL ID: N/A  
 TOTAL FOOTAGE: 24  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing  
 Type: N/A  
 Size: N/A

Sampler  
 Type: N/A  
 Size: N/A

Groundwater  
 Date: N/A  
 WL (ref.): N/A  
 WL (bgs): N/A  
 GW Elev.: N/A

Survey  
 Lat. \_\_\_\_\_  
 Long. \_\_\_\_\_  
 Elev. \_\_\_\_\_

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08

Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Pebbly clayey fill. No odor.		Soil boring location only. No well installed.
		2				
		3		Light gray clayey fill with organics.		
		4		Light gray sandy clayey silt with a chalk-like texture.		
		5				
		6				
		7				
		8		Dark gray silty clay. Staining and color, in top of section possibly organic in nature. Mottled gray and tan in bottom of section. No odor.		
		9				
		10				
		11		Dark gray clayey silt. Staining increases. Odor becomes noticeable and increases with depth. Free product mobile at 13-14' bgs.		
		12				
		13				
		14				
		15				
		16		Pebbly clayey silt. Product and odor.		
		17		Tan and gray silty clay. Odor noted.		
		18		Pebbly clayey silt. Odor noted		
		19		Tan and gray silty clay. Odor noted.		
		20		Pebbly clayey silt. Odor noted		
		21		Tan and gray mottled slightly silty clay becoming stiff with depth. Odor decreasing with depth. Slight staining at contacts with pebbles decreasing with depth.		
		22				
		23				
		24				

Notes: No well was installed at this location.



BORING ID: P7  
 WELL ID: N/A  
 TOTAL FOOTAGE: 20  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

<u>Casing</u> Type: N/A Size: N/A	<u>Sampler</u> Type: N/A Size: N/A	<u>Groundwater</u> Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	<u>Survey</u> Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Red silty clayey fill.		Soil boring location only. No well installed.
		2				
		3				
		4		Gray silty clay with small pebble inclusions. No odor.		
		5				
		6				
		7				
		8		Dark gray silty clay. Uniform organic staining. No odor.		
		9				
		10				
		11				
		12				
		13				
		14		Gray and tan mottled clay with small pebble inclusions. No odor.		
		15				
		16				
		17				
		18		Pebbly clay with staining at contacts.		
		19				
		20		Gray and tan mottled clay with small pebble inclusions. No odor.		

Notes: No well was installed at this location.



**TETRA TECH**

BORING ID: P8  
 WELL ID: N/A  
 TOTAL FOOTAGE: 24  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

<u>Casing</u> Type: N/A Size: N/A	<u>Sampler</u> Type: N/A Size: N/A	<u>Groundwater</u> Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	<u>Survey</u> Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Red silty clayey fill.		Soil boring location only. No well installed.
		2				
		3				
		4				
		5		Gray and tan silty clay. No odor.		
		6		Wet gray silty clay. No odor. No product.		
		7		Gray and tan silty clay. No odor.		
		8		Gray and tan clayey silt. No odor.		
		9				
		10		Gray and tan silty clay fining with depth. No odor.		
		11				
		12				
		13		Gray and tan pebbly clayey silt. No odor.		
		14				
		15				
		16		Reddish oxidized pebbly sandy silty clay.		
		17		Gray and tan clayey silt. No odor.		
		18				
		19				
		20		Reddish oxidized pebbly sandy silty clay.		
		21		Gray and tan mottled stiff clay. No odor.		
		22		Slight staining at small pebble inclusion contacts.		
		23				
		24				

Notes: No well was installed at this location.



BORING ID: P9  
 WELL ID: N/A  
 TOTAL FOOTAGE: 20  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing  
 Type: N/A  
 Size: N/A

Sampler  
 Type: N/A  
 Size: N/A

Groundwater  
 Date: N/A  
 WL (ref.): N/A  
 WL (bgs): N/A  
 GW Elev.: N/A

Survey  
 Lat. \_\_\_\_\_  
 Long. \_\_\_\_\_  
 Elev. \_\_\_\_\_

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08

∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Red clayey silty fill.		Soil boring location only. No well installed.
		2				
		3				
		4				
		5		Gray clayey silt.		
		6				
		7				
		8		Gray silty clay. Very dry and stiff.		
		9		Dark gray moist clay. No odor. Staining likely organic in nature.		
		10				
		11		Tan and gray mottled silty clay with pebble inclusions. Oxidation stains around pebbles at contacts. Organic staining becoming evident at 14' bgs. No odor.		
		12				
		13				
		14				
		15				
		16				
		17		Tan and gray stiff silty clay becoming finer with depth. No odor.		
		18				
		19		Pebbly silty clay. Staining at contacts.		
		20		Tan and gray stiff clay. No odor.		

Notes: No well was installed at this location.



BORING ID: PILE01  
 WELL ID: N/A  
 TOTAL FOOTAGE: 28  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

<b>Casing</b> Type: N/A Size: N/A	<b>Sampler</b> Type: N/A Size: N/A	<b>Groundwater</b> Date: N/A WL (ref.): N/A WL (bgs): N/A GW Elev.: N/A	<b>Survey</b> Lat. _____ Long. _____ Elev. _____
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Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Silty clay cap material.		Soil boring location only. No well installed.
		2				
		3				
		4				
		5		Solidified lagoon sludge. Mostly a dark gray clay with 6" of interlayered gravel and sand at 6' and 9' bgs. Dark stains and moderate odor.		
		6				
		7				
		8		Tan and gray mottled clayey silt, fining downward. Medium staining from 12-15' bgs with slight odor.		
		9				
		10				
		11				
		12				
		13				
		14				
		15		Tan and gray mottled silty clay, fining downward. Light staining and slight odor.		
		16				
		17				
		18		Tan and gray mottles pebbly silty clay with heavy staining at contacts and slight odor.		
		19				
		20				
		21				
		22				
		23				
		24				
		25		Mottled tan and gray silty clay fining downward to a mostly gray stiff clay. Stains clearing with depth and no noticeable odor.		
		26				
		27				
		28				

Notes: No well was installed at this location.



BORING ID: PILE02  
 WELL ID: N/A  
 TOTAL FOOTAGE: 24  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

<b>Casing</b>	<b>Sampler</b>	<b>Groundwater</b>	<b>Survey</b>
Type: N/A	Type: N/A	Date: N/A	Lat. _____
Size: N/A	Size: N/A	WL (ref.): N/A	Long. _____
		WL (bgs): N/A	Elev. _____
		GW Elev.: N/A	

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes	
		1		Silty clay cap material.		Soil boring location only. No well installed.	
		2					
		3					
		4		Solidified lagoon sludge. Mostly a dark gray clay with 6" of interlayered sand at 7' bgs. Dark stains and moderate odor.			
		5					
		6					
		7					
		8		Tan and gray mottled clayey silt, fining downward.			
		9					
		10					
		11		Tan and gray mottled silty clay, fining downward. No staining except a 6" layer of light staining at 19' bgs with slight odor.			
		12					
		13					
		14					
		15					
		16					
		17					
		18					
		19		Tan and gray mottled clay. No staining. No odor.			Pebbly marker layers found at about 20' bgs at other boreholes are not present at this location.
		20					
		21					
		22					
		23					
		24					

Notes: No well was installed at this location.



BORING ID: SWP11  
 WELL ID: SWP-GW-04  
 TOTAL FOOTAGE: 28  
 TDD No.: TTEMI-05-003-0035

Project: Southeastern Wood Preserving  
 Address: Covington Drive  
 Canton, MS

Drilling Co.: EPA Kerr Laboratory  
 Drill Method: Direct Push  
 Driller:

Casing	Sampler	Groundwater	Survey
Type: PVC	Type: Peristaltic	Date: 9/8/2008	Lat. _____
Size: 2"	Size: 1/4"	WL (ref.): 18.25	Long. _____
		WL (bgs): 15.05	Elev. _____
		GW Elev.: N/A	

Rig Type: 6610DT  
 Start Date: 09/22/08  
 Finish Date: 10/01/08  
 ∇ Water level during drilling.

Product	Staining	Depth (ft)	Lithology	Soil Description	Well Completion	Notes
		1		Sandy silty fill.		2" PVC without grout or sand.
		2				
		3		Tan silty clayey fill.		
		4				
		5		Gravel fill underlayment.		
		6		Gray silty clay. Slightly stained.		
		7				
		8				
		9				
		10				
		11				
		12				
		13		Light gray silty clay. Moderate odor noted beginning at 15' bgs.		
		14				
		15				
		16				
		17		Pebbly silty clay. Stained at contacts.		
		18		Light gray silty clay. Moderate odor noted.		
		19				
		20				
		21		Pebbly silty clay. Stained at contacts.		
		22		Gray and tan mottled clay, fining with depth. Some pebble inclusion in upper section. Light odor in upper section decreasing with depth. Light staining in upper section decreasing with depth.		
		23				
		24				
		25				
		26				
		27				
		28				

Screened from 18' to 28" bgs.