

## **APPENDIX C – WETLAND DETERMINATION DATA**



**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
 (1987 COE Wetlands Delineation Manual)

Project/Site: Colbert Fossil Plant	Date: 8/27/02
Applicant/Owner: TVA	County: Colbert
Investigator: P.C. Durr, E. Keene	State: Alabama
Do normal circumstances exist on the site? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Community ID: PEM1A
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Transect ID: "Frog Pond"
Is the area a potential problem area? (If needed, explain on reverse) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Plot ID: W1
---Area is within an in-use parking lot. Native soil coloration not possible to discern because of heavy infusion of coal dust and fragments.	

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Echinochloa crus-galli	Herb	Facw-	9.		
2. Panicum dichotomiflorum	Herb	Facw	10.		
3. Setaria glauca	Herb	Fac	11.		
4. Polygonum persicaria	Herb	Facw	12.		
5. Paspalum dilatatum	Herb	Fac+	13.		
6. Solidago canadensis	Herb	Facu	14.		
7. Eupatorium serotinum	Herb	Fac	15.		
8.			16.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 6/7 = 85.7%					
Remarks:					

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks):</p> <p><input type="checkbox"/> Stream, Lake, or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> No Recorded Data Available</p>	<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input checked="" type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input checked="" type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required):</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches</p> <p><input checked="" type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: _____ (in.)</p> <p>Depth to Free Water in Pit: _____ (in.)</p> <p>Depth to Saturated Soil: _____ (in.)</p>	
<p>Remarks: Hydrologic input appears to come entirely from rainwater.</p>	

Colbert Fossil Plant Units 1 Through 5  
Reduction Systems for Control of Nitrogen Oxides

**SOILS**

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (Subgroup):		Field Observations Confirm Mapped Type?		Yes	No
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14		2.5Y 2.5/1			loamy silt, coal dust
14-17		2.5Y 4/1	10YR 4/4	25%	silt loam, coal dust & fragments
17-20		7.5Y 4/3	7.5Y 4/2	10%	loam, mixed with fine gravel, coal fragments
Gravel stopper @ 20					
Hydric Soil Indicators:					
_____ Histosol			_____ Concretions		
_____ Histic Epipedon			_____ High Organic Content in Surface Layer in Sandy Soils		
_____ Sulfidic Odor			_____ Organic Streaking in Sandy Soils		
_____ Aquic Moisture Regime			_____ Listed on Local Hydric Soils List		
_____ Reducing Conditions			_____ Listed on National Hydric Soils List		
_____ Gleyed or Low-Chroma Colors			_____ Other (Explain in Remarks)		
Remarks: Native soil coloration not possible to discern because of heavy infusion of coal dust and fragments.					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	x	No		Is this Sampling Point Within a Wetland?	Yes	No	x
Wetland Hydrology Present?	Yes	x	No					
Hydric Soils Present?	Yes		No	?				
Remarks: This shallow, isolated depression lies at the edge of a gravel-lined staging/parking area. Hydrologic input appears to come entirely from rainfall.								



Colbert Fossil Plant Units 1 Through 5  
Reduction Systems for Control of Nitrogen Oxides

**SOILS**

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (Subgroup):		Field Observations Confirm Mapped Type?		Yes	No
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-2		7.5 YR 3/3			loamy silt
concrete @ 2 in.					
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol			<input type="checkbox"/> Concretions		
<input type="checkbox"/> Histic Epipedon			<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils		
<input type="checkbox"/> Sulfidic Odor			<input type="checkbox"/> Organic Streaking in Sandy Soils		
<input type="checkbox"/> Aquic Moisture Regime			<input type="checkbox"/> Listed on Local Hydric Soils List		
<input type="checkbox"/> Reducing Conditions			<input type="checkbox"/> Listed on National Hydric Soils List		
<input type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Other (Explain in Remarks)		
Remarks: Hydric soil criterion not met.					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	x	No		Is this Sampling Point Within a Wetland?	Yes		No	x
Wetland Hydrology Present?	Yes	x	No						
Hydric Soils Present?	Yes		No	x					
Remarks: This site is a concrete-lined ditch containing eroded sediment from an adjoining hillside. Approximately 465 feet of the channel is vegetated with wetland indicator species.									