

APPENDIX B
SOIL PROFILES

SOIL PROFILE

Auger Boring 1

Date: April 16, 2003

County: Sussex County, Delaware

Soil Description By: M.G. Sams, CPSS

Project Location: Bridge 146 Retaining Wall

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Fill Layers 1 and 2, mixed 0-45.0 cm (0-17.7 in)	10YR 4/3 Brown 7.5YR 4/4 Brown		mixed sandy fill, with ash, brick, and coal fragments	single grained	loose		
45.0 cm (17.7 in)			auger refusal - coarse fill				

Additional Notes: Floodplain position; sandy fill layers with auger refusal at 45.0 cm (17.7 in).

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SOIL PROFILE

Auger Boring 2

Date: April 16, 2003

County: Sussex County, Delaware

Soil Description By: M.G. Sams, CPSS

Project Location: Bridge 146 Retaining Wall

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Fill Layer 1 0-35.0 cm (0-13.8 in)	10YR 3/3 Dark brown		loamy sand, with fine glass and plastic fragments	single grained	loose	gradual	
Fill Layer 2 35.0-62.0 cm (13.8-24.4 in)	7.5YR 4/4 Brown		sand, mixed with 10YR 6/1 Gray sand and brick and cinder fragments	single grained	loose	gradual	
Fill Layer 4 62.0-85.0 cm (24.4-33.5 in)	N 2/0 Black		sand with ash and brick fragments	single grained	loose	gradual	
C / 85.0-100.0 cm+ (33.5-39.4 in+)	N 8/0 White		coarse sand	single grained	loose		

Additional Notes: Floodplain position; fill layers of sand, ash, and brick over coarse, white sand.

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SOIL PROFILE

Auger Boring 3

Date: April 16, 2003

County: Sussex County, Delaware

Soil Description By: M.G. Sams, CPSS

Project Location: Bridge 146 Retaining Wall

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Fill Layer 1 0-25.0 cm (0-9.8 in)	10YR 3/3 Dark brown		loamy sand, with fine glass and plastic fragments	single grained	loose	gradual	
Fill Layer 2 25.0-48.0 cm (9.8-18.9 in)	7.5YR 4/4 Brown		sand, mixed with 10YR 6/1 Gray sand and brick and cinder fragments	single grained	loose	gradual	
Fill Layer 3 48.0-80.0 cm (18.9-31.5 in)	10YR 6/1 Gray		sand, mixed with 7.5YR 4/4 Brown sand and ash fragments	single grained	loose	gradual	
Fill Layer 4 80.0-92.0 cm (31.5-36.2 in)	N 2/0 Black		sand with ash and brick fragments	single grained	loose	gradual	
C / 92.0-100.0 cm+ (36.2-39.4 in+)	N 8/0 White		coarse sand	single grained	loose		

Additional Notes: Floodplain position; fill layers of sand, ash, and brick over coarse, white sand.

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SOIL PROFILE

Auger Boring 4

Date: April 16, 2003
Soil Description By: M.G. Sams, CPSS

County: Sussex County, Delaware
Project Location: Bridge 146 Retaining Wall

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Fill Layer 1 0-28.0 cm (0-11.0 in)	10YR 3/3 Dark brown		loamy sand, with fine glass and plastic fragments	single grained	loose	gradual	
Fill Layer 2 28.0-79.0 cm (11.0-31.1 in)	7.5YR 4/4 Brown		sand, mixed with 10YR 6/1 Gray sand and brick and cinder fragments	single grained	loose	gradual	
C / 79.0-100.0 cm+ (31.1-39.4 in+)	N 8/0 White		coarse sand	single grained	loose		

Additional Notes: Floodplain position; fill layers of sand, ash, and brick over coarse, white sand.

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