

**APPENDIX B**  
**SOIL PROFILES**

# SOIL PROFILE

## STP A8

**Date:** June 16, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (S.R. 1 to Love Creek)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-31.0 cm (0-12.2 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bt/31.0-42.0 cm+ (12.2-16.5 in+)	10YR 6/6 Brownish yellow		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, agricultural field; well developed profile of sandy coastal plain sediments.

**SKELLY AND LOY, INC.**  
**ENGINEERS-CONSULTANTS**  
**MONROEVILLE and HARRISBURG, PA**

# SOIL PROFILE

## STP B10

**Date:** June 17, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (S.R. 1 to Love Creek)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-28.0 cm (0-11.0 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bt/28.0-41.0 cm+ (11.0-16.1 in+)	10YR 5/6 Yellowish brown		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, fallow agricultural field; well developed profile of sandy coastal plain sediments.

**SKELLY AND LOY, INC.**  
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**MONROEVILLE and HARRISBURG, PA**

# SOIL PROFILE

## STP C1

Date: June 11, 2003

County: Sussex County, Delaware

Soil Description By: M.G. Sams, CPSS

Project Location: S.R. 24 (S.R. 1 to Love Creek)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-25.0 cm (0-9.8 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bt/25.0-39.0 cm+ (9.8-15.4 in+)	10YR 5/6 Yellowish brown		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, agricultural field; well developed profile of sandy coastal plain sediments.

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# SOIL PROFILE

## STP D42

**Date:** June 16, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (S.R. 1 to Love Creek)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-33.0 cm (0-13.0 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bt/33.0-44.0 cm+ (13.0-17.3 in+)	7.5YR 5/6 Strong brown		coarse sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, agricultural field; well developed profile of sandy coastal plain sediments.

**SKELLY AND LOY, INC.**  
**ENGINEERS-CONSULTANTS**  
**MONROEVILLE and HARRISBURG, PA**

# SOIL PROFILE

## STP E12

**Date:** June 11, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (S.R. 1 to Love Creek)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-34.0 cm (0-13.4 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bt/34.0-45.0 cm+ (13.4-17.7 in+)	10YR 5/6 Yellowish brown		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, agricultural field; well developed profile of sandy coastal plain sediments.

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**MONROEVILLE and HARRISBURG, PA**

# SOIL PROFILE

## STP F10

**Date:** June 11, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (S.R. 1 to Love Creek)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-40.0 cm (0-15.8 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bt/40.0-50.0 cm+ (15.8-19.7 in+)	10YR 5/6 Yellowish brown		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, flower bed; well developed profile of sandy coastal plain sediments. Thickened Ap horizon due to flower bed development.

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**MONROEVILLE and HARRISBURG, PA**

# SOIL PROFILE

## STP G15

**Date:** June 15, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-26.0 cm (0-10.2 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bwg/26.0-37.0 cm+ (10.2-14.6 in+)	10YR 7/2 Light gray		loamy sand	very weak medium blocky	friable		gleyed, wet

**Additional Notes:** Upland position, wooded area; moderately well developed profile of somewhat poorly drained sandy coastal plain sediments.

**SKELLY AND LOY, INC.**  
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# SOIL PROFILE

## STP H50

**Date:** June 14, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-22.0 cm (0-8.7 in)	10YR 4/3 Brown		sandy loam	weak medium granular	friable	clear	
Bwg/22.0-40.0 cm+ (8.7-15.8 in+)	10YR 7/2 Light gray		loamy sand	very weak medium blocky	friable		

**Additional Notes:** Upland position, hay field; moderately well developed profile of somewhat poorly drained sandy coastal plain sediments.

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# SOIL PROFILE

## STP J25

**Date:** June 13, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-25.0 cm (0-9.8 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bwg/25.0-35.0 cm+ (9.8-13.8 in+)	10YR 7/2 Light gray		loamy sand	very weak medium blocky	friable		gleyed

**Additional Notes:** Upland position, hay field; moderately well developed profile of somewhat poorly drained sandy coastal plain sediments.

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# SOIL PROFILE

## STP L8

**Date:** June 18, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-18.0 cm (0-7.1 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bt/18.0-30.0 cm+ (7.1-11.8 in+)	10YR 6/6 Brownish yellow		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, wooded area; well developed profile of sandy coastal plain sediments.

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# SOIL PROFILE

## STP M20

**Date:** June 12, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-22.0 cm (0-8.7 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bwg/22.0-47.0 cm+ (8.7-18.5 in+)	10YR 7/2 Light gray	many, coarse: 10YR 6/6 Brownish yellow	loamy sand	very weak medium blocky	friable		gleyed, wet

**Additional Notes:** Upland position, hay field; moderately well developed profile of somewhat poorly drained sandy coastal plain sediments.

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# SOIL PROFILE

## STP 011

**Date:** June 12, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-30.0 cm (0-11.8 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bwg/30.0-44.0 cm+ (11.8-17.3 in+)	10YR 7/2 Light gray		loamy sand	very weak medium blocky	friable		

**Additional Notes:** Upland position, lawn; moderately well developed profile of somewhat poorly drained sandy coastal plain sediments.

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# SOIL PROFILE

## STP P28

**Date:** June 16, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-26.0 cm (0-10.2 in)	10YR 4/3 Brown		sandy loam	weak medium granular	friable	clear	
Bt/26.0-40.0 cm+ (10.2-15.8 in+)	10YR 6/6 Brownish yellow		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, hay field; well developed profile of sandy coastal plain sediments.

**SKELLY AND LOY, INC.**  
**ENGINEERS-CONSULTANTS**  
**MONROEVILLE and HARRISBURG, PA**

# SOIL PROFILE

## STP Q8

**Date:** June 14, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
fill/0-7.0 cm (0-2.8 in)			sandy fill				
Ap/7.0-30.0 cm (2.8-11.8 in)	10YR 4/3 Brown		sandy loam	weak medium granular	friable	clear	
Bt/30.0-60.0 cm+ (11.8-23.6 in+)	10YR 6/6 Brownish yellow		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, mown field; well developed profile of sandy coastal plain sediments.

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# SOIL PROFILE

## STP S10

**Date:** June 17, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-10.0 cm (0-3.9 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bt/10.0-30.0 cm+ (3.9-11.8 in+)	10YR 6/6 Brownish yellow		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, wooded area; well developed profile of sandy coastal plain sediments.

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# SOIL PROFILE

## STP U15

Date: June 13, 2003

County: Sussex County, Delaware

Soil Description By: M.G. Sams, CPSS

Project Location: S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-27.0 cm (0-10.6 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bwg/27.0-37.0 cm+ (10.6-14.6 in+)	10YR 7/2 Light gray		sandy loam	very weak medium blocky	friable		

**Additional Notes:** Upland position, mown field; moderately well developed profile of somewhat poorly drained sandy coastal plain sediments.

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# SOIL PROFILE

## STP W5

**Date:** June 18, 2003

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-27.0 cm (0-10.6 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bwg/27.0-40.0 cm+ (10.6-15.8 in+)	10YR 7/2 Light gray		loamy sand	weak medium blocky	friable		gleyed, wet

**Additional Notes:** Upland position, mown field; moderately well developed profile of somewhat poorly drained sandy coastal plain sediments.

**SKELLY AND LOY, INC.**  
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# SOIL PROFILE

## Tunnell STP N165 E45

Date: January 21, 2004

County: Sussex County, Delaware

Soil Description By: M.G. Sams, CPSS

Project Location: S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-31.0 cm (0-12.2 in)	10YR 4/3 Brown		sandy loam	weak medium granular	friable	clear	
Bt/31.0-41.0 cm+ (12.2-16.1 in+)	10YR 6/6 Brownish yellow		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, grassy field; well developed profile of sandy coastal plain sediments.

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# SOIL PROFILE

## Hall/Norwood STP N360 E390

**Date:** January 14, 2004

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-26.0 cm (0-10.2 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bt/26.0-36.0 cm+ (10.2-14.2 in+)	10YR 6/6 Brownish yellow		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, grassy/brush area; well developed profile of sandy coastal plain sediments.

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# SOIL PROFILE

## Coursey STP N480 E540

**Date:** January 15, 2004

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-26.0 cm (0-10.2 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bwg/26.0-36.0 cm+ (10.2-14.2 in+)	10YR 7/2 Light gray	many, coarse: 10YR 6/6 Brownish yellow	loamy sand	very weak medium blocky	friable		gleyed, wet

**Additional Notes:** Upland position, grassy/brush field; moderately well developed profile of somewhat poorly drained sandy coastal plain sediments.

**SKELLY AND LOY, INC.  
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# SOIL PROFILE

## Arnell STP 4

Date: January 21, 2004

County: Sussex County, Delaware

Soil Description By: M.G. Sams, CPSS

Project Location: S.R. 24 (S.R. 1 to Love Creek)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-41.0 cm (0-16.1 in)	10YR 5/4 Yellowish brown		sandy loam	weak medium granular	friable	clear	
Bt/41.0-51.0 cm+ (16.1-20.1 in+)	7.5YR 5/6 Strong brown		coarse sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, grassy/brush field; well developed profile of sandy coastal plain sediments.

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# SOIL PROFILE

## Holly Lake STP 1

**Date:** January 21, 2004

**County:** Sussex County, Delaware

**Soil Description By:** M.G. Sams, CPSS

**Project Location:** S.R. 24 (Holly Lake Road to Oak Orchard Road)

Horizon/Depth	SOIL COLOR		Texture	Structure	Consistence	Boundary	Comments
	Matrix	Mottling					
Ap/0-38.0 cm (0-15.0 in)	10YR 4/3 Brown		sandy loam	weak medium granular	friable	clear	
Bt/38.0-48.0 cm+ (15.0-18.9 in+)	10YR 6/6 Brownish yellow		sandy clay loam	weak medium blocky	friable		

**Additional Notes:** Upland position, brushy area; well developed profile of sandy coastal plain sediments.

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