



RESOURCE INTERNATIONAL, INC.
281 Enterprise Drive
Westerville, OH 43081
(614) 885-1959

REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-67
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/24/03
Date Finished: 10/24/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 240+00
Offset 19' LT
Elevation 754.17 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				3.5" - Topsoil	0.3		
SS-1	5 20 50/3"	80		Mottled brown and gray coarse to fine SANDY SILT, some clay, little to some fine gravel. Hard to very stiff. Damp to very moist. -SS-1: Visual* ODOT A-4a (3); qh = 9.0+ ksf -trace organics in SS-1	12	27	17
SS-2	10 14 16	89	2.5	-SS-2: ODOT A-4a (4); qh = 9.0+ ksf	13	24	14
SS-3	9 11 13 19	83		-SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf	17		
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ∇ Dry ft
Extended ∇ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-68
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/24/03
Date Finished: 10/24/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 248+00
Offset 32' LT
Elevation 768.73 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				6.5" - Asphalt			
				10.5" - Concrete	0.5		
				2.0" - Sand and gravel base	1.4		
SS-1	3 4 6	67	2.5	Mottled brown and gray SILTY CLAY, little to some coarse to fine sand, little to some coarse to fine gravel. Stiff to very stiff. Damp. -SS-1: ODOT A-6b (8); qh = 5.5 ksf	1.6	15	36
SS-2	8 8 12	56		-SS-2: ODOT A-6b (8); qh = 8.0 ksf		15	36
SS-3	9 10 12 15	83	5.0	Mottled brown and gray SILT and CLAY, some coarse to fine sand, some fine to coarse gravel. Very stiff. Moist. -SS-3: Visual** ODOT A-6a; qh = 9.0+ ksf	4.5	11	
				Bottom of Boring = 6.5 feet	6.5		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ✓ Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-69
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/24/03
Date Finished: 10/24/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 256+00
Offset 19' LT
Elevation 780.41 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				4.0" - Topsoil	0.3		
SS-1	3 14 20	44		Gray changing to mottled brown and gray SILTY CLAY, little to trace coarse to fine sand, little to trace fine gravel. Hard to very stiff. Damp. -SS-1: ODOT A-6b; qh = 9.0+ ksf	13	38	19
SS-2	6 17 19	28	2.5	-SS-2: Visual* ODOT A-6b; qh = 9.0+ ksf -increase in coarse and fine gravel in SS-2	6		
SS-3	10 10 11 16	88	5.0	-SS-3: Visual** ODOT A-6b; qh = 9.0+ ksf	15		
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ∇ Dry ft
Extended ∇ NA ft

BORING METHOD

HSA - Hollow Stem Augers
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MD - Mud Drilling
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-70
Sheet 1 of 1
Completion Depth 4.8'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 264+00
Offset 32' LT
Elevation 794.97 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				6.5" - Asphalt			
				10.0" - Concrete	0.5		
				2.5" - Sand and gravel base	1.3		
SS-1	3 4 6	94		Mottled brown and gray SILT and CLAY, some to little fine gravel, little to trace coarse to fine sand. Stiff to hard. Damp.	1.5	13	29
			2.5	-SS-1: ODOT A-6a (6); qh = 9.0+ ksf			
SS-2	4 17 50/4"	75		-SS-2: ODOT A-6a (10); qh = 9.0+ ksf		15	36
				Gray weathered SHALE. Medium hard. Damp.	4.0		21
SS-3	50/4"	50				6	
			5.0	Bottom of Boring = 4.8 feet	4.8		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-72
Sheet 1 of 1
Completion Depth 6.5'
Date Started: 10/31/03
Date Finished: 10/31/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 281+00 Boring Method 4.0" SFA
Offset 32' LT Hammer Weight 140 lbs.
Elevation 819.84 ft Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				6.0" - Asphalt			
				10.6" - Concrete	0.5		
				2.0" - Sand and gravel base	1.4		
SS-1	3 4 8	89	2.5	Mottled brown and gray SILTY CLAY, little to trace coarse to fine sand, little to trace fine gravel. Stiff. Moist. -SS-1: ODOT A-6b (11); qh = 9.0+ ksf	20	35	18
SS-2	4 5 7	100		-SS-2: ODOT A-6b (10); qh = 9.0+ ksf	20	34	18
SS-3	5 5 7 10	83	5.0	Mottled brown and gray SILT and CLAY, some coarse to fine sand, little fine gravel. Stiff. Very moist. -SS-3: ODOT A-6a (5); qh = 9.0+ ksf	20	28	16
				Bottom of Boring = 6.5 feet	6.5		

NOTES: **Visual only; ***Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-73
Sheet 1 of 1
Completion Depth 5.0'
Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 289+00 Boring Method 4.0" SFA
Offset 19' LT Hammer Weight 140 lbs.
Elevation 818.56 ft Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
SS-1	5 5 7	56		4.25" - Topsoil			
				Mottled brown and gray SILT and CLAY, some to little coarse to fine sand, little to some fine gravel. Stiff to very stiff. Damp to moist. -SS-1: ODOT A-6a (4); qh = 9.0+ ksf -trace organics in SS-1	11	27	16
SS-2	5 7 10	67			14	29	17
			2.5	-SS-2: ODOT A-6a (9); qh = 9.0+ ksf			
SS-3	10 12 17 30	75			18		
				-SS-3: Visual** ODOT A-6a; qh = 9.0+ ksf			
			5.0	Bottom of Boring = 5.0 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE
SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING
Initial Dry ft.
At Completion ▽ Dry ft.
Extended ▽ NA ft.

BORING METHOD
HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-75
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 305+00
Offset 19' LT
Elevation 794.43 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				5.0' - Topsoil	0.4		
SS-1	3 7 5	94		Mottled brown and gray changing to gray SILTY CLAY, some to little coarse to fine gravel, some to little coarse to fine sand. Stiff to very stiff. Damp. -SS-1: ODOT A-6b (4); qh = 9.0+ ksf -trace organics in SS-1	10	35	19
SS-2	8 11 6	67		-SS-2: ODOT A-6b (10); qh = 9.0+ ksf	14	38	20
SS-3	4 5 6 8	71		-SS-3: Visual** ODOT A-6b; qh = 9.0+ ksf -slightly indurated	15		
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ☒ Dry ft
Extended ☒ NA ft

BORING METHOD

HSA - Hollow Stem Augers
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WD - Wash Drilling
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-76
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 313+00
Offset 32' LT
Elevation 795.07 ft

Boring Method	4.0" SFA
Hammer Weight	140 lbs.
Hammer Drop	30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION		MOISTURE CONTENT	ATTERBERG LL	PL
				16.8" - Asphalt				
					1.3			
SS-1A	7 6 4	83		8.0" - Sand and gravel base				
SS-1B					2.0			
			2.5	Mottled brown and gray changing to gray SILTY CLAY, little coarse to fine sand, trace to some coarse to fine gravel. Stiff to very stiff. Very moist to damp. -SS-1B: ODOT A-6b (10); qh = 5.5 ksf -trace organics (wood) in SS-1B		19	32	16
SS-2	6 7 10	89		-SS-2: ODOT A-6b (9); qh = 9.0+ ksf		10	39	22
SS-3	7 8 13 21	17	5.0	-SS-3: Visual** ODOT A-6b; qh = 9.0+ ksf		11		
					6.5			
				Bottom of Boring = 6.5 feet				

NOTES: **Visual only; *Visual with partial testing

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

	Dry	ft
Initial		
At Completion	Dry	ft
Extended	NA	ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-77
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 321+00
Offset 19' LT
Elevation 804.68 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				4.5" - Topsoil			
SS-1	3 7 8	33		FILL: Dark brown fine to coarse SAND, some fine gravel, little silt, little clay, trace organics. Medium dense. Damp. -SS-1: ODOT A-2-4 (0)	9	23	15
SS-2	4 7 7	50		FILL: Brown fine GRAVEL (pea gravel), little silt, little fine to coarse sand. Medium dense. Moist. -SS-2: Visual** ODOT A-1-a	7		
			2.5				
SS-3	5 5 8 12	50		Mottled brown and gray fine to coarse SANDY SILTY, some clay, some coarse to fine gravel. Stiff. Moist. -SS-3: ODOT A-4a (5); qh = 3.5 ksf	14	19	14
			3.0				
			5.0	Bottom of Boring = 5.0 feet			
			5.0				

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-78
Sheet 1 of 1
Completion Depth 4.8'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 329+00
Offset 32' LT
Elevation 817.32 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				9.0" - Asphalt			
				2.5" - Concrete	0.8		
				2.0" - Sand and gravel base	0.3		
				Gray coarse to fine SANDY SILT, some clay, trace fine gravel. Hard. Damp.	1.7		
SS-1	4 12 50/4"	88		-SS-1: ODOT A-4a (8); qh = 9.0+ ksf		10	24
			2.5				
				Gray weathered SHALE. Soft to medium hard. Damp.			
SS-2	50/5"	60				6	
SS-3	50/3"	67				6	
			5.0	Bottom of Boring = 4.8 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-79
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 337+00
Offset 19' LT
Elevation 826.98 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
SS-1	4 10 13	67		2.0" - Topsoil Mottled brown and gray coarse to fine SANDY SILT, some clay, little fine gravel. Very stiff. Damp to moist. -SS-1: ODOT A-4a (3); qh = 9.0+ ksf -trace organics in SS-1	7	23	14
SS-2	10 13 6	83	2.5	-SS-2: ODOT A-4a (7); qh = 9.0+ ksf	13	25	15
SS-3	4 6 17 9	79	5.0	-SS-3: Visual** ODOT A-4a; qh = 8.0 ksf Bottom of Boring = 5.0 feet	12		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ✓ Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-80
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 345+00
Offset 32' LT
Elevation 831.83 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				6.0" - Asphalt			
				9.0" - Concrete			
				2.5" - Sand and gravel base			
SS-1	3 5 10	89	2.5	Mottled brown and gray SILT, some clay, little coarse and fine sand, little fine gravel. Stiff. Damp. -SS-1: ODOT A-4b (7); qh = 9.0+ ksf	11	25	16
SS-2	10 19 24	44	3.0	Gray SILT and CLAY, some to trace coarse to fine sand, little fine gravel. Hard. Damp. -SS-2: ODOT A-6a (7); qh = 9.0+ ksf	12	29	17
SS-3	14 17 21 20	54	5.0	-SS-3: Visual** ODOT A-6a; qh = 9.0+ ksf	12		
			6.5	Bottom of Boring = 6.5 feet			

NOTES: **Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-81
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 353+00
Offset 19' LT
Elevation 821.76 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				3.25" - Topsoil			
SS-1	4 7 13	56		Brown changing to mottled brown and gray coarse to fine SANDY SILT, little clay, little to trace coarse to fine gravel. Very stiff. Damp. -SS-1: ODOT A-4a (4); qh = 9.0+ ksf -trace organics in SS-1	8	18	13
SS-2	6 9 12	61		-SS-2: ODOT A-4a (2); qh = 9.0+ ksf	8	17	12
SS-3	8 10 13 19	83		-SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf	9		
			5.0	Bottom of Boring = 5.0 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-82
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 361+00
Offset 32' LT
Elevation 809.76 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				6.9" - Asphalt			
				9.5" - Concrete	0.5		
				2.0" - Sand and gravel base	1.3		
SS-1	4 8 19	56	2.5	Brown changing to brownish gray coarse to fine SANDY SILT, some clay, little fine gravel. Very stiff. Damp. -SS-1: ODOT A-4a (4); qh = 9.0+ ksf	1.5	9	20
SS-2	9 10 13	83		-SS-2: ODOT A-4a (5); qh = 9.0+ ksf		9	20
SS-3	7 10 11 15	67	5.0	-SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf		7	
				Bottom of Boring = 6.5 feet	6.5		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



RESOURCE INTERNATIONAL, INC.
281 Enterprise Drive
Westerville, OH 43081
(614) 885-1959

REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-83
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 369+00
Offset 19' LT
Elevation 794.88 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				3.0" - Topsoil	0.3		
SS-1	4 4 10	67		Dark brown fine GRAVEL, some fine to coarse sand, little silt, little clay. Medium dense. Moist. -SS-1: ODOT A-2-4 (0); qh = 9.0+ ksf -trace organics in SS-1	8	NP	NP
SS-2	8 7 7	83		Dark brown fine GRAVELLY SILT and CLAY, trace to some coarse to fine sand. Stiff to very stiff. Damp. -SS-2: ODOT A-6a (5); qh = 9.0+ ksf	12	29	16
SS-3	6 7 9 12	50		-SS-3: Visual** ODOT A-6a; qh = 9.0+ ksf	12		
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ✓ Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-84
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 377+00
Offset 32' LT
Elevation 783.47 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				6.0" - Asphalt			
				8.0" - Concrete	0.5		
				3.0" - Sand and gravel base	1.1		
SS-1	4 6	94		Dark brown coarse to fine SANDY SILT, some clay, trace fine gravel. Stiff. Moist.	1.4	14	24
				-SS-1: ODOT A-4a (8); qh = 9.0+ ksf			15
			2.5				
SS-2	5 7 12	89		Gray SILTY CLAY, trace to little coarse to fine sand, trace fine gravel. Very stiff. Moist.	3.0	16	32
				-SS-2: ODOT A-6a (10); qh = 9.0+ ksf			17
SS-3	7 8 10 12	83				16	
				-SS-3: Visual** ODOT A-6a; qh = 9.0+ ksf			
			5.0				
				Bottom of Boring = 6.5 feet	6.5		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ∇ Dry ft
Extended ∇ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-85
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/23/03
Date Finished: 10/23/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 385+00
Offset 19' LT
Elevation 782.70 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
SS-1	7	100		3.5" - Topsoil	0.3		
	11 18			Mottled brown and gray SILT, some clay, trace coarse to fine sand, trace fine gravel. Very stiff. Damp. -SS-1: ODOT A-4b; qh = 9.0+ ksf		14	25
SS-2	13	61	2.5	Gray SILTY CLAY, some fine gravel (limestone fragments), some coarse to fine sand. Hard. Damp. -SS-2: ODOT A-6b (5); qh = 9.0+ ksf	1.5	14	35
	14 19						19
SS-3	12	42	5.0	Gray coarse to fine GRAVEL, some fine to coarse sand, little silt, trace clay. Medium dense. Damp. -SS-3: Visual** ODOT A-1-b	3.0	4	
	10 7 5						
				Bottom of Boring = 5.0 feet	5.0		

NOTES: **Visual only; **Visual with partial testing

SAMPLE TYPE
SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING
Initial Dry ft
At Completion ✓ Dry ft
Extended NA ft

BORING METHOD
HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-86
Sheet 1 of 1
Completion Depth 4.8'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 393+00
Offset 32' LT
Elevation 794.23 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	PL
				6.9" - Asphalt			
				7.0" - Concrete	0.5		
				2.0" - Sand and gravel base	1.2		
SS-1	7 19 23	56	2.5	Gray SILT and CLAY, some coarse to fine gravel, trace coarse to fine sand. Hard. Damp. -SS-1: ODOT A-6a (7); qh = 9.0+ ksf -limestone fragments in SS-1	1.4	7	33
SS-2A	10 50/5"	82		-SS-2A: ODOT A-6a (6); qh = 9.0+ ksf -slightly indurated		9	32
SS-2B				Gray weathered SHALE. Soft to medium hard. Damp.	3.5		20
SS-3	50/4"	75	5.0	Bottom of Boring = 4.8 feet	4.8	9	

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry
At Completion ▽ Dry
Extended ▽ NA

BORING METHOD

HSA - Hollow Stem Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-87
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 401+00
Offset 19' LT
Elevation 799.79 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				3.5" - Topsoil	0.3		
SS-1	7 9 13	56		Brown SILT and CLAY, little coarse to fine sand, little fine gravel, trace organics. Very stiff. Damp. -SS-1: ODOT A-6a (7); qh = 9.0+ ksf	12	26	15
SS-2	8 10 14	33	2.5	Brown and gray coarse to fine GRAVEL, some fine to coarse sand, trace silt, trace clay. Medium dense. Damp. -SS-2: ODOT A-1-a (0)	6	15	13
SS-3	4 6 6 7	75	5.0	Brown SILTY CLAY, some coarse to fine sand, trace fine gravel. Stiff. Moist. -SS-3: Visual** ODOT A-6b; qh = 4.5 ksf	23		
				Bottom of Boring = 5.0 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
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RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-88
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 409+00
Offset 32' LT
Elevation 795.82 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				5.5" - Asphalt	0.5		
				9.5" - Concrete	1.2		
SS-1	6 7 15	56	2.5	Mottled dark brown and gray SILTY CLAY, little coarse to fine sand, trace fine gravel. Very stiff. Moist. -SS-1: ODOT A-6b (10); qh = 7.0 ksf	15	32	16
SS-2	9 10 9	100	3.0	Mottled dark brown and gray SILT and CLAY, some coarse to fine sand, trace fine gravel. Very stiff. Damp. -SS-2: ODOT A-6a (9); qh = 9.0+ ksf	12	29	17
SS-3	5 7 8 10	79	5.0	Dark brown SILTY CLAY, some coarse to fine sand, trace fine gravel. Stiff. Moist. -SS-3: Visual** ODOT A-6b; qh = 6.0 ksf	25		
			6.5	Bottom of Boring = 6.5 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-89
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 417+00
Offset 19' LT
Elevation 779.02 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
SS-1	12 10 5	72		4.0" - Topsoil	0.3		
				Brown fine to coarse GRAVEL and fine to coarse SAND, little silt, trace clay. Medium dense. Damp. -SS-1: ODOT A-1-b (0)		7	16
SS-2	5 7 9	61			1.5		
				Mottled gray and brown changing to gray SILTY CLAY, some coarse to fine sand, trace to some coarse to fine gravel (limestone fragments). Very stiff. Damp. -SS-2: ODOT A-6b (9); qh = 9.0+ ksf		11	31
SS-3	7 8 9 12	75					
				-SS-3: Visual** ODOT A-6b; qh = 9.0+ ksf -limestone fragments in SS-3		12	
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ✓ Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-90
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 425+00
Offset 32' LT
Elevation 764.46 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				6.0" - Asphalt			
				9.0" - Concrete	0.5		
				2.0" - Sand and gravel base	1.3		
SS-1	4 4 19	83		Mottled brown and gray SILT and CLAY, little coarse to fine sand, trace fine gravel. Very stiff. Moist. -SS-1: ODOT A-6a (9); qh = 9.0+ ksf	1.5	14	28
			2.5				
SS-2	14 12 9	56		Mottled brown and gray SILT and CLAY, some coarse to fine gravel (limestone fragments), some coarse to fine sand. Very stiff. Damp. -SS-2: ODOT A-6a (2); qh = 9.0+ ksf -limestone fragments in SS-2	3.0	11	25
							14
SS-3	7 9 10 16	63		Mottled brown and gray SILT and CLAY, some coarse to fine sand, little fine gravel. Very stiff. Damp. -SS-3: Visual** ODOT A-6a; qh = 9.0+ ksf	4.5	11	
			5.0				
				Bottom of Boring = 6.5 feet	6.5		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
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MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-91
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 432+00
Offset 19' LT
Elevation 749.02 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
SS-1	6	56		4.0" - Topsoil	0.3		
	11			Brown coarse to fine SANDY SILT, some clay, little fine gravel. Very stiff. Damp.		8	23
	13			-SS-1: ODOT A-4a (3); qh = 9.0+ ksf			14
SS-2	7	67			1.5		
	10			Mottled brown and gray SILT and CLAY, some coarse to fine sand, little fine gravel. Very stiff. Damp to moist.		11	25
	12			-SS-2: ODOT A-6a (6); qh = 9.0+ ksf			14
SS-3	8	71	2.5				
	9						
	11			-SS-3: Visual** ODOT A-6a; qh = 9.0+ ksf		13	
	20		5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE
SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING
Initial Dry ft
At Completion ✓ Dry ft
Extended NA ft

BORING METHOD
HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-92
Sheet 1 of 1
Completion Depth 6.5'
Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 441+00
Offset 32' LT
Elevation 732.46 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	PL
				6.0" - Asphalt			
				9.0" - Concrete	0.5		
SS-1	10 16 23	50	2.5	29" - Sand and gravel base- Fine and coarse SAND and coarse to fine GRAVEL, little to trace silt, trace clay. Dense to medium dense. Damp. -SS-1: ODOT A-1-b (0)	1.5	5	NP NP
SS-2A	7 10 12	44		-SS-2A: ODOT A-1-b (0)	3.5	4	NP NP
SS-2B				Brown coarse to fine SANDY SILT, some clay, trace fine gravel. Very stiff to stiff. Moist.			
SS-3	4 5 6 7	54	5.0	-SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf	14		
			6.5	Bottom of Boring = 6.5 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ✓ Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-93
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 12+00
Offset 19' LT
Elevation 714.60 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
SS-1	3 4 5	67		4.0" - Topsoil	0.3		
				Brown coarse to fine SANDY SILT, some fine gravel, little clay, trace organics. Stiff. Moist. -SS-1: ODOT A-4a (6); qh = 6.5 ksf	13	20	14
SS-2	4 5 5	94			1.5		
				Mottled dark brown and gray coarse to fine SANDY SILT, some clay, little to trace fine gravel. Stiff. Moist to very moist. -SS-2: ODOT A-4a (6); qh = 9.0+ ksf	17	24	16
SS-3	4 6 5 6	83	2.5				
				-SS-3: Visual** ODOT A-4a; qh = 8.5 ksf	21		
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-94
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 20+00
Offset 32' LT
Elevation 704.12 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				6.5" - Asphalt			
				9.5" - Concrete	0.5		
				8.0" - Sand and gravel base. Medium dense.	1.3		
SS-1A	9	56					
	11						
SS-1B	14						
			2.5	Mottled brown and gray coarse to fine SANDY SILT, some clay, little fine to coarse gravel. Very stiff to hard. Damp. -SS-1B: ODOT A-4a (4); qh = 9.0+ ksf	9	22	13
SS-2	10	50			7	18	14
	13			-SS-2: ODOT A-4a (4); qh = 9.0+ ksf			
	18						
SS-3	8	75			9		
	11						
	15		5.0	-SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf			
	17						
			6.5	Bottom of Boring = 6.5 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-95
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 28+00
Offset 19' LT
Elevation 700.60 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				6.0" - Topsoil			
SS-1	7 9 30	83		Brown changing to mottled brown and gray coarse to fine SANDY SILT, some clay, little to some fine gravel. Hard to very stiff. Moist to damp. -SS-1: ODOT A-4a (3); qh = 9.0+ ksf -trace organics in SS-1	12	21	13
SS-2	10 13 15	89		-SS-2: ODOT A-4a (4); qh = 9.0+ ksf	7	20	13
SS-3	17 23 15 10	71		-SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf	9		
			5.0	Bottom of Boring = 5.0 feet			

NOTES: **Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry
At Completion ∇ Dry
Extended ∇ NA

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-96
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 36+00
Offset 32' LT
Elevation 702.35 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				5.75" - Asphalt			
				7.75" - Concrete	0.5		
				3.0" - Sand and gravel base	1.1		
SS-1	9 14 18	100	2.5	Brown coarse to fine SANDY SILT, some clay, little fine gravel. Hard to very stiff. Damp to very moist. -SS-1: ODOT A-4a (4); qh = 9.0+ ksf	1.4	8	21
SS-2	13 15 12	89		-SS-2: ODOT A-4a (4); qh = 9.0+ ksf		12	21
SS-3	12 11 8	83	5.0	Mottled brown and gray SILT and CLAY, some coarse to fine sand, trace fine gravel. Very stiff. Moist. -SS-3: Visual** ODOT A-6a; qh = 9.0+ ksf	4.0	21	13
				Bottom of Boring = 6.5 feet	6.5		

NOTES: **Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-97
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 44+00
Offset 19' LT
Elevation 709.80 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	PL
SS-1	6 7 7	100		4.0" - Topsoil	0.3		
				Brown SILTY CLAY, little coarse to fine sand, little fine gravel, trace organics. Stiff. Damp. -SS-1: ODOT A-6b (8); qh = 9.0+ ksf	8	31	14
SS-2	3 4 6	89		Gray SILT and CLAY, trace coarse to fine sand, trace fine gravel. Stiff. Moist to very moist. -SS-2: ODOT A-6a (8); qh = 5.5 ksf	18	26	15
SS-3	4 5 5 7	88		-SS-3: Visual** ODOT A-6a; qh = 4.5 ksf	19		
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ✓ Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-98
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 52+00
Offset 32' LT
Elevation 724.04 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				5.0" - Asphalt			
				9.5" - Concrete	0.5		
				4.0" - Sand and gravel base	1.3		
SS-1	6 10 11	100		Gray coarse to fine SANDY SILT, some clay, little fine gravel. Very stiff. Damp. -SS-1: ODOT A-4a (3); qh = 9.0+ ksf	1.6	9	17
			2.5				
SS-2	5 6 6	72		Gray SILT and CLAY, trace coarse to fine sand, trace fine gravel. Stiff to very stiff. Moist to damp. -SS-2: ODOT A-6a (9); qh = 9.0+ ksf	3.0	21	35
							22
SS-3	4 7 10 10	79		-SS-3: Visual** ODOT A-6a; qh = 5.5 ksf		19	
			5.0				
			6.5	Bottom of Boring = 6.5 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ☒ Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-99
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/22/03
Date Finished: 10/22/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 60+00
Offset 19' LT
Elevation 735.40 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				5.5" - Topsoil			
SS-1	10 20 21	100		Brown coarse to fine SANDY SILT, little clay, little fine gravel. Hard. Damp. -SS-1: ODOT A-4a (3); qh = 9.0+ ksf	6	18	13
SS-2	6 8 7	78		Mottled brown and gray SILT and CLAY, little to some coarse to fine sand, little to trace fine gravel. Stiff to very stiff. Moist -SS-2: ODOT A-6a (8); qh = 7.0 ksf	17	28	15
SS-3	9 10 14 21	75		-SS-3: Visual** ODOT A-6a; qh = 8.0 ksf	15		
			5.0	Bottom of Boring = 5.0 feet			

NOTES: **Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8Project WAR-75-3.40Project Number B-03-023Boring Number B-100Sheet 1 of 1Completion Depth 6.5'Date Started: 10/22/03Date Finished: 10/22/03Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 68+00Offset 34' LTElevation 749.64 ftBoring Method 4.0" SFAHammer Weight 140 lbs.Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	PL
				5.5" - Asphalt			
				10.0" - Concrete	0.5		
				3.0" - Sand and gravel base	1.3		
SS-1	6 10 18	89	2.5	Brown fine and coarse SAND, some fine gravel, little silt, trace clay. Medium dense. Moist. -SS-1: ODOT A-1-b	7	NP	NP
SS-2	11 13 18	56	3.0	Brown coarse to fine SAND, little to some fine gravel, little silt, trace clay. Dense to medium dense. Moist. -SS-2: ODOT A-3a (0)	7	NP	NP
SS-3	12 16 10 12	75	5.0	-SS-3: Visual** ODOT A-3a	7		
			6.5	Bottom of Boring = 6.5 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon

GS - Geoprobe Sample

ST - Shelby Tube

RC - Rock Core

AS - Auger Sample

GROUND WATER READING

Initial Dry ft

At Completion Dry ft

Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers

SFA - Solid Flight Augers

MD - Mud Drilling

WD - Wash Drilling

RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-101
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/21/03
Date Finished: 10/21/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 76+00
Offset 44' LT
Elevation 763.50 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				5.5" - Topsoil			
SS-1	9 11 17	100		Brown coarse to fine SANDY SILT, some fine gravel, some clay. Very stiff. Damp. -SS-1: ODOT A-4a (2); qh = 9.0+ ksf -trace organics in SS-1	0.5	11	22
SS-2	6 10 14	89		Gray SILT, some clay, some coarse to fine sand, trace fine gravel. Very stiff. Moist. -SS-2: ODOT A-4b (8); qh = 7.5 ksf	1.5	16	26
SS-3	7 10 12 11	46		Gray SILT and CLAY, some coarse to fine sand, some fine gravel. Very stiff. Damp. -SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf	3.0	11	16
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-102
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/21/03
Date Finished: 10/21/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 84+00
Offset 84.3' LT
Elevation 787.24 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				6.5" - Asphalt			
				9.0" - Concrete			
				8.5" - Sand and gravel base			
SS-1A	10	100					
SS-1B	3	75					
			2.5	Brown and gray CLAY, some coarse to fine sand, little fine gravel. Stiff. Moist. -SS-1B: ODOT A-7-6 (8); qh = 6.5 ksf	19	48	17
SS-2	5	83					
	6						
	8			Brown coarse to fine SANDY SILT, some fine gravel, little clay. Stiff. Damp. -SS-2: ODOT A-4a (0)	13	21	17
SS-3	6	78					
	9						
	10						
	12		5.0	Brown fine to coarse SAND, some fine gravel, little silt, trace clay. Medium dense. Damp. -SS-3: Visual** ODOT A-3a	6		
				Bottom of Boring = 6.5 feet			

NOTES: **Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-103
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/21/03
Date Finished: 10/21/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 91+00
Offset 79.5' LT
Elevation 805.40 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				4.0" - Topsoil			
SS-1	5 4 6	67		Brown coarse to fine SANDY SILT, some coarse to fine gravel, little clay, trace organics. Loose. Damp. -SS-1: ODOT A-4a (0)	0.4	7	20
SS-2	6 10 17	78		Gray coarse to fine SANDY SILT, little fine gravel, little clay. Medium dense. Moist. -SS-2: ODOT A-4a (2)	1.5	7	NP
SS-3	11 19 23 29	63		Mottled brown and gray fine to coarse SAND, little fine gravel, little silt, trace clay. Dense. Moist. -SS-3: Visual** ODOT A-3a	3.0	9	NP
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-104
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/21/03
Date Finished: 10/21/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station	100+00
Offset	92.5' LT
Elevation	828.04 ft

Boring Method	<u>4.0" SFA</u>
Hammer Weight	<u>140 lbs.</u>
Hammer Drop	30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION		MOISTURE CONTENT	ATTERBERG LL	PL
				6.0" - Asphalt				
				6.5" - Concrete	0.5			
				10.25" - Sand and gravel base. Medium dense.	1.1			
SS-1A	13 7	100			2.0			
SS-1B	10	100		Brown coarse to fine SANDY SILT, little clay, little to some fine gravel. Very stiff to hard. Damp. -SS-1B: ODOT A-4a (2); qh = 9.0+ ksf		11	18	14
SS-2	7 10 11	100	2.5	-SS-2: ODOT A-4a (2); qh = 9.0+ ksf		9	17	12
SS-3	7 19 23 30	75	5.0	-SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf		9		
				Bottom of Boring = 6.5 feet	6.5			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE
 SS - 2" OD Split Spoon
 GS - Geoprobe Sample
 ST - Shelby Tube
 RC - Rock Core
 AS - Auger Sample

GROUND WATER READING		
Initial	Dry	ft
At Completion	▽ Dry	ft
Extended	▼ NA	ft

BORING METHOD
HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-105
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/21/03
Date Finished: 10/21/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 108+00
Offset 79.5' LT
Elevation 841.00 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				3.75" - Topsoil	0.3		
SS-1	5 8 12	50		Dark brown fine to coarse SAND and fine GRAVEL, little silt, trace clay, trace organics. Medium dense. Damp. -SS-1: ODOT A-1-b (0)	9	20	19
SS-2	6 7 11	22		Mottled brown and gray SILTY CLAY, some coarse to fine sand, some to little fine gravel. Very stiff. Moist. -SS-2: ODOT A-6b (7); qh = 9.0+ ksf	12	32	14
SS-3	8 12 16 20	42	2.5	-SS-3: Visual** ODOT A-6b; qh = 9.0+ ksf	12		
			5.0	Bottom of Boring = 5.0 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-106
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/21/03
Date Finished: 10/21/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 116+00
Offset 92.5' LT
Elevation 859.96 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	PL
				5.6" - Asphalt			
				9.4" - Concrete	0.5		
				4.0" - Sand and gravel base	1.3		
SS-1	9 9 13	89	2.5	Brown changing to mottled brown and gray coarse to fine SANDY SILT, some clay, little fine gravel. Very stiff to hard. Damp. -SS-1: ODOT A-4a (3); qh = 9.0+ ksf	8	16	11
SS-2	13 16 20	50		-SS-2: ODOT A-4a (3); qh = 9.0+ ksf	10	17	14
SS-3	10 12 10 14	58	5.0	-SS-3: Visual** ODOT A-4a; qh = 8.5 ksf	10		
				Bottom of Boring = 6.5 feet	6.5		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-107
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/21/03
Date Finished: 10/21/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 124+00
Offset 79.5' LT
Elevation 881.24 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				5.0" - Topsoil	0.4		
SS-1	4 6 9	67		Brown coarse to fine SAND, some silt, little fine gravel, little clay, trace organics. Medium dense. Damp. -SS-1: ODOT A-3a (0); qh = 9.0+ ksf	7	18	14
SS-2	7 6 3	100		Brown fine to coarse SAND, some fine gravel, some silt, trace clay. Loose. Damp. -SS-2: ODOT A-1-b (0)	10	19	16
SS-3	4 4 5 5	79		Brown fine to coarse SAND, little silt, trace fine gravel, trace clay. Loose. Moist. -SS-3: Visual** ODOT A-3a	10		
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: **Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-108
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/20/03
Date Finished: 10/20/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 132+00
Offset 92.5' LT
Elevation 902.32 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				6.6" - Asphalt			
				6.5" - Concrete			
				3.75" - Sand and gravel base			
SS-1	10 7 6 9	88	2.5	Mottled brown and gray changing to brown coarse to fine SANDY SILT, some coarse to fine gravel, little clay. Stiff to hard. Damp to moist. -SS-1: ODOT A-4a (3); qh = 9.0+ ksf	9	19	13
SS-2	7 19 31 50	75	5.0	-SS-2: ODOT A-4a (0); qh = 5.5 ksf	16	21	13
SS-3	21 20	42		-SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf	4		
				Bottom of Boring = 6.5 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ∇ Dry ft
Extended ∇ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-109
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/20/03
Date Finished: 10/20/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 140+00
Offset 79.5' LT
Elevation 911.88 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				7.5" - Topsoil			
SS-1	2 3 5 6	83		Brown SILT and CLAY, some coarse to fine sand, trace fine gravel. Medium stiff. Moist. -SS-1: ODOT A-6a (8); qh = 9.0+ ksf	14	28	15
SS-2	20 21 10 22	75	2.5	Mottled brown and gray SILTY CLAY, some coarse to fine sand, trace fine gravel. Hard to very stiff. Damp to very moist. -SS-2: ODOT A-6b (7); qh = 9.0+ ksf	8	30	14
SS-3	11 16	42		-SS-3: Visual** ODOT A-6b; qh = 6.5 ksf	20		
			5.0	Bottom of Boring = 5.0 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ✓ Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-110
Sheet 1 of 1
Completion Depth 5.9'

Date Started: 10/20/03
Date Finished: 10/20/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 148+00
Offset 92.5' LT
Elevation 924.20 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG	
						LL	PL
				6.0" - Asphalt			
				8.25" - Concrete	0.5		
				9.0" - Sand and gravel base	1.2		
SS-1A	12	75					
SS-1B	23						
	50 3/4"						
				FILL: Bluish gray SILTY CLAY, some coarse to fine gravel (limestone fragments), little fine to coarse sand. Hard. Damp. -SS-1B: ODOT A-6a (4); qh = 5.5 ksf	12	29	16
			2.5				
SS-2	36	50		Gray fine GRAVEL, some fine to coarse sand, little silt, little clay. Very dense. Damp. -SS-2: ODOT A-2-4 (0)	4	21	14
	50 1/2"						
			5.0				
AS-3	50 5/5"	0		Gray fine GRAVEL, some fine to coarse sand, little silt, trace clay. Very dense. Damp. -AS-3: Visual** ODOT A-1-b	5		
				Bottom of Boring = 5.9 feet			
					5.5		
					5.9		

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



RESOURCE INTERNATIONAL, INC.
281 Enterprise Drive
Westerville, OH 43081
(614) 885-1959

REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-111
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/20/03
Date Finished: 10/20/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 156+00
Offset 79.5' LT
Elevation 933.64 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				4.5" - Topsoil			
SS-1	4 6 7 10	75		Brown SILT and CLAY, some coarse to fine sand, little fine gravel. Stiff. Damp. -SS-1: ODOT A-6a (6); qh = 9.0+ ksf	9	28	14
SS-2	8 12 10 6	46	2.5	Brown SILTY CLAY, some coarse to fine sand, little to trace fine gravel. Very stiff. Damp. -SS-2: ODOT A-6b (8); qh = 6.0 ksf	13	33	16
SS-3	14 13	42	5.0	-SS-3: Visual** ODOT A-6b; qh = 9.0+ ksf	11		
				Bottom of Boring = 5.0 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ∇ Dry ft
Extended ∇ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-112
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/20/03
Date Finished: 10/20/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 164+00
Offset 92.5' LT
Elevation 945.96 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	PL
				6.5" - Asphalt			
				7.5" - Concrete	0.5		
				3.5" - Sand and gravel base	1.2		
				Brown and gray coarse to fine SANDY SILT, some clay, trace fine gravel. Stiff. Very moist.	1.5		
SS-1	10 7 6 7	83	2.5	-SS-1: ODOT A-4a (6); qh = 9.0+ ksf	21	23	14
SS-2	5 6 7 9	88	3.5	Mottled dark brown and gray CLAY, some silt, some coarse to fine sand, trace fine gravel. Stiff. Moist.	20	45	18
			5.0	-SS-2: ODOT A-7-6 (16); qh = 7.0 ksf			
SS-3	4 7	83	5.5	Mottled brown and gray SILT and CLAY, some coarse to fine sand, trace fine gravel. Stiff. Very moist.	23		
			6.5	-SS-3: Visual** ODOT A-6b; qh = 6.0 ksf -trace wood fragments			
				Bottom of Boring = 6.5 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-113
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/20/03
Date Finished: 10/20/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 172+00
Offset 79.5' LT
Elevation 952.23 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	PL
SS-1A	6 10 13 8	79		4.5" - Topsoil			
				7.5" - Sand and gravel base	0.4		
SS-1B				Brown changing to mottled brown and gray coarse to fine SANDY SILT, some to little clay, little to trace fine gravel. Very stiff to stiff. Damp to moist. -SS-1B: ODOT A-4a (4); qh = 9.0+ ksf	9	20	13
SS-2	5 6 6 7	100	2.5	-SS-2: ODOT A-4a (6); qh = 9.0+ ksf	11	16	13
SS-3	5 6	92		-SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf	12		
			5.0	Bottom of Boring = 5.0 feet	5.0		

NOTES: **Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring



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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-114
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/20/03
Date Finished: 10/20/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 180+00
Offset 92.5' LT
Elevation 951.88 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				7.0" - Asphalt			
				5.5" - Concrete	0.6		
				30.0" - Sand and gravel base. Medium dense.	1.0		
SS-1	10 12 9 7	75	2.5				
SS-2A	7 11 12 13	83	3.5	Grayish brown fine to coarse SANDY SILT, some fine gravel, trace clay. Very stiff. Moist.	8	NP	NP
SS-2B			4.0	-SS-2A: ODOT A-4a (1)	14	23	19
			5.0	Gray SILT, little clay, little coarse to fine sand, trace fine gravel. Very stiff to stiff. Damp.			
				-SS-2B: ODOT A-4b (8); qh = 9.0+ ksf			
SS-3	7 8	75		-SS-3: Visual** ODOT A-4b; qh = 9.0+ ksf	14		
			6.5	Bottom of Boring = 6.5 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ∇ Dry ft
Extended ∇ NA ft

BORING METHOD

HSA - Hollow Stem Augers
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WD - Wash Drilling
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-115
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/20/03
Date Finished: 10/20/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 188+00
Offset 79.5' LT
Elevation 947.24 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 9"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT		ATTERBERG	
					LL	PL	LL	PL
				6.0" - Topsoil				
SS-1	3 12 10 8	96		Brown and mottled brown and gray coarse to fine SANDY SILT, some clay, trace fine gravel. Very stiff to stiff. Moist. -SS-1: ODOT A-4a (6); qh = 9.0+ ksf	16	17	14	
SS-2	5 6 7 9	79	2.5	-SS-2: ODOT A-4a (7); qh = 9.0+ ksf	12	25	15	
SS-3	4 5	83		-SS-3: Visual** ODOT A-4a; qh = 5.5 ksf	17			
			5.0	Bottom of Boring = 5.0 feet				

NOTES: **Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ∇ Dry ft
Extended ∇ NA ft

BORING METHOD

HSA - Hollow Stem Augers
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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-116
Sheet 1 of 1
Completion Depth 6.5'

Date Started: 10/20/03
Date Finished: 10/20/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 196+00
Offset 92.5' LT
Elevation 945.21 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				5.5" - Asphalt			
				6.0" - Concrete	0.5		
				12.0" - Sand and gravel base. Medium dense.	1.0		
SS-1A	10	79					
SS-1B	8						
	7						
	6						
				Grayish brown SILTY CLAY, little coarse to fine sand, trace fine gravel. Stiff. Moist.	19	40	17
			2.5	-SS-1B: ODOT A-6b (13); qh = 9.0+ ksf			
SS-2	7	88					
	19						
	21						
	23						
				Mottled brown and gray SILT and CLAY, some coarse to fine sand, trace to little fine gravel. Hard. Damp.	9	26	14
				-SS-2: ODOT A-6a (8); qh = 9.0+ ksf			
			3.5				
SS-3	17	83					
	24						
				-SS-3: Visual** ODOT A-6a; qh = 9.0+ ksf	8		
			5.0				
			6.5				
				Bottom of Boring = 6.5 feet			

NOTES: *Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion Dry ft
Extended NA ft

BORING METHOD

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REPORT OF SOIL EXPLORATION

Client ODOT District 8
Project WAR-75-3.40
Project Number B-03-023

Boring Number B-117
Sheet 1 of 1
Completion Depth 5.0'

Date Started: 10/20/03
Date Finished: 10/20/03
Drilled By: C.M.

DRILLING AND SAMPLING INFORMATION

Station 204+00
Offset 79.5' LT
Elevation 934.17 ft

Boring Method 4.0" SFA
Hammer Weight 140 lbs.
Hammer Drop 30 inches

SAMPLE NO	BLOWS PER 6"	PERCENT RECOVERY	DEPTH	SOIL DESCRIPTION	MOISTURE CONTENT	ATTERBERG LL	ATTERBERG PL
				10.0" - Topsoil			
SS-1	3 4 6 9	88		Brown CLAY, and silt, trace coarse to fine sand, trace organics. Stiff. Moist. -SS-1: ODOT A-7-6 (20); qh = 9.0+ ksf	19	53	20
SS-2	12 21 30 41	67	2.5	Brown fine to coarse SANDY SILT, some clay, trace to some fine gravel. Hard. Damp. -SS-2: ODOT A-4a (3); qh = 9.0+ ksf	10	17	14
SS-3	23 35	83	5.0	-SS-3: Visual** ODOT A-4a; qh = 9.0+ ksf	8		
				Bottom of Boring = 5.0 feet			

NOTES: **Visual only; **Visual with partial testing

SAMPLE TYPE

SS - 2" OD Split Spoon
GS - Geoprobe Sample
ST - Shelby Tube
RC - Rock Core
AS - Auger Sample

GROUND WATER READING

Initial Dry ft
At Completion ▽ Dry ft
Extended ▽ NA ft

BORING METHOD

HSA - Hollow Stem Augers
SFA - Solid Flight Augers
MD - Mud Drilling
WD - Wash Drilling
RC - Rock Coring