

FHWA REGION	STATE	PROJECT	DATE
	OHIO	PROPOSED RETAINING WALLS ALONG STATE ROUTE 174	11-5-93

# LAKE COUNTY LAK-174

Date Started 11-5-93 Sampler: Type S.S. Dia. 2.0" Water Encountered DRY Project I.D.: 142-35023  
 Date Completed 11-5-93 Casing: Length 5.0' Dia. 3.25" Water on Completion DRY RETAINING WALLS ALONG STATE RT. 174  
 Surface Elevation 710.09 ± LAKE COUNTY

Boring No: B-1 Station & Offset 31 + 95.99, 12.08' RT.

Elev.	Std. pen. Test	Description	Depth	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class
				AU-1								8.6	
705.09	4-6-5	MED. DENSE, MOIST, BROWN CLAYEY SAND, SOME GRAVEL (SC)	5	SS-2	22	55	20	3				15.6	A-1-b
	7-13-23	V/SOFT TO SOFT, BROWN & GRAY WEATHERED SHALE		SS-3								13.8	
700.09	43-50/4"		10	SS-4								6.3	
695.09	50/3"	FRIABLE GRAY SHALE.	15	SS-5								6.2	
690.09		CORE DATA: HOLE 15'-0" RECOVERY: 100% LONGEST PIECE: 9.5" K.A.B.: B22	20										
685.09		END OF BORING 25'-0"	25	NX-6									
		* 7" ASPHALT CONCRETE * 4" SAND AND GRAVEL BASE ** MED. DENSE, MOIST, BROWN SAND, TRACE GRAVEL (SP)											

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 Surface Elevation 709.21 ± LAKE COUNTY

Boring No: B-2 Station & Offset 33 + 26.19, 10.43' RT.

Elev.	Std. pen. Test	Description	Depth	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class
				AU-1								8.3	
704.21	4-4-4	MED. DENSE, MOIST, BROWN SAND, TRACE GRAVEL (SP)	5	SS-2								9.3	A-1-b
	4-5-7	STIFF, MOIST, BROWN SILTY CLAY, TRACE SAND (CL)		SS-3	3	3	5	41	48	31	19	19.8	A-6b
699.21	37-50/4"	FRIABLE GRAY SHALE.	10	SS-4								8.3	
694.21	50/6"	END OF BORING 15'-0"	15	SS-5								5.5	
		* 7" ASPHALT CONCRETE * 4" SAND AND GRAVEL BASE											

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 Surface Elevation 706.25 ± LAKE COUNTY

Boring No: B-5 Station & Offset 38 + 20.41, 7.57' RT.

Elev.	Std. pen. Test	Description	Depth	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class
				AU-1								5.5	
701.25	3-2-2	LOOSE TO MED. DENSE, MOIST, BROWN, SAND, TRACE GRAVEL (SP)	5	SS-2	20	40	34	6				6.3	A-1-b
	2-3-7			SS-3								9.9	
696.25	40-50/4"	FRIABLE GRAY SHALE.	10	SS-4								5.7	
691.25	50/6"	END OF BORING 15'-0"	15	SS-5								5.3	
		* 7" ASPHALT CONCRETE * 4" SAND AND GRAVEL BASE											

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 Date Completed 11-5-93 Casing: Length 5.0' Dia. 3.25" Water on Completion DRY RETAINING WALLS ALONG STATE RT. 174  
 Surface Elevation 708.67 ± LAKE COUNTY

Boring No: B-3 Station & Offset 34 + 24.91, 12.42' RT.

Elev.	Std. pen. Test	Description	Depth	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class
				AU-1								6.5	
703.67	3-4-3	MED. DENSE, MOIST, BROWN SAND, TRACE GRAVEL (SP)	5	SS-2	18	57	20	5				6.4	A-1-b
	3-2-2			SS-3								9.2	
698.67	31-50/4"	FRIABLE GRAY SHALE.	10	SS-4								6.0	
693.67	50/6"	END OF BORING 15'-0"	15	SS-5								5.1	
		* 7" ASPHALT CONCRETE * 4" SAND AND GRAVEL BASE											

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 Surface Elevation 706.65 ± LAKE COUNTY

Boring No: B-4 Station & Offset 37 + 67.60, 8.86' RT.

Elev.	Std. pen. Test	Description	Depth	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class
				AU-1								8.4	
701.65	7-5-5	MED. DENSE, MOIST, BROWN SAND, TRACE GRAVEL (SP)	5	SS-2	4	44	49	3				9.0	A-3
	1-1-2			SS-3								7.4	
696.65	33-50/5"	FRIABLE GRAY SHALE.	10	SS-4								5.5	
691.65	50/5"	END OF BORING 15'-0"	15	SS-5								4.4	
		* 7.5" ASPHALT CONCRETE * 4" SAND AND GRAVEL BASE											

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 Surface Elevation 699.76 ± LAKE COUNTY

Boring No: B-8 Station & Offset 43 + 44.61, 3.65' RT.

Elev.	Std. pen. Test	Description	Depth	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class
				AU-1								8.8	
694.76	4-4-5	MED. DENSE, MOIST TO WET BROWN SAND, SOME GRAVEL TRACE CLAY (SP)	5	SS-2	8	37	48	7				14.7	A-3
	7-27-25			SS-3								10.5	
689.76	34-50/5"	FRIABLE GRAY SHALE.	10	SS-4								10.6	
684.76	50/6"	END OF BORING 15'-0"	15	SS-5								5.0	
		* 7" ASPHALT CONCRETE * 4" SAND AND GRAVEL BASE											

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 Date Completed 11-5-93 Casing: Length 5.0' Dia. 3.25" Water on Completion DRY RETAINING WALLS ALONG STATE RT. 174  
 Surface Elevation 700.84 ± LAKE COUNTY

Boring No: B-6 Station & Offset 42 + 35.17, 3.24' RT.

Elev.	Std. pen. Test	Description	Depth	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class
				AU-1								8.3	
695.84	4-4-5	MED. DENSE, MOIST, BROWN SAND, TRACE GRAVEL (SP)	5	SS-2	22	55	20	3				13.4	A-1-b
	10-16-16	V/SOFT TO SOFT, BROWN & GRAY WEATHERED SHALE		SS-3								15.0	
690.84	50/6"		10	SS-4								8.5	
685.84	36-50/3"	FRIABLE GRAY SHALE.	15	SS-5								4.2	
680.84	50/3"		20	SS-6								2.5	
675.84		CORE DATA: HOLE 7'-0" RECOVERY: 100% LONGEST PIECE: 23.5" K.A.B.: B22	25	NX-7									
		END OF BORING 25'-0"											
		* 7" ASPHALT CONCRETE * 4" SAND AND GRAVEL BASE											

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 Surface Elevation 700.39 ± LAKE COUNTY

Boring No: B-7 Station & Offset 42 + 84.63, 2.51' RT.

Elev.	Std. pen. Test	Description	Depth	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class
				AU-1								9.7	
695.39	4-4-6	STIFF, MOIST, BROWN & GRAY SILTY CLAY (CL)	5	SS-2	14	16	15	51	4	38	12	15.8	A-6a
	15-29-50/6"	V/SOFT TO SOFT, GRAY WEATHERED SHALE		SS-3								10.0	
690.39	27-50/5"		10	SS-4								11.2	
685.39	50/5"	FRIABLE GRAY SHALE.	15	SS-5								5.2	
		END OF BORING 15'-0"											
		* 7" ASPHALT CONCRETE * 4" SAND AND GRAVEL BASE ** MED. DENSE, MOIST, BROWN SAND, TRACE GRAVEL (SP)											

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**PSI** Professional Service Industries, Inc.  
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SCALE: NTS APPROVED BY: A.V. DRAWN BY: MTG  
 DATE: 1-7-94 REVISED:  
 CLIENT: CT CONSULTANTS  
 PROJECT NAME: PROPOSED RETAINING WALLS STATION Nos. 43+39, 38+13 AND 33+01 DRAWING NUMBER: 142-35023