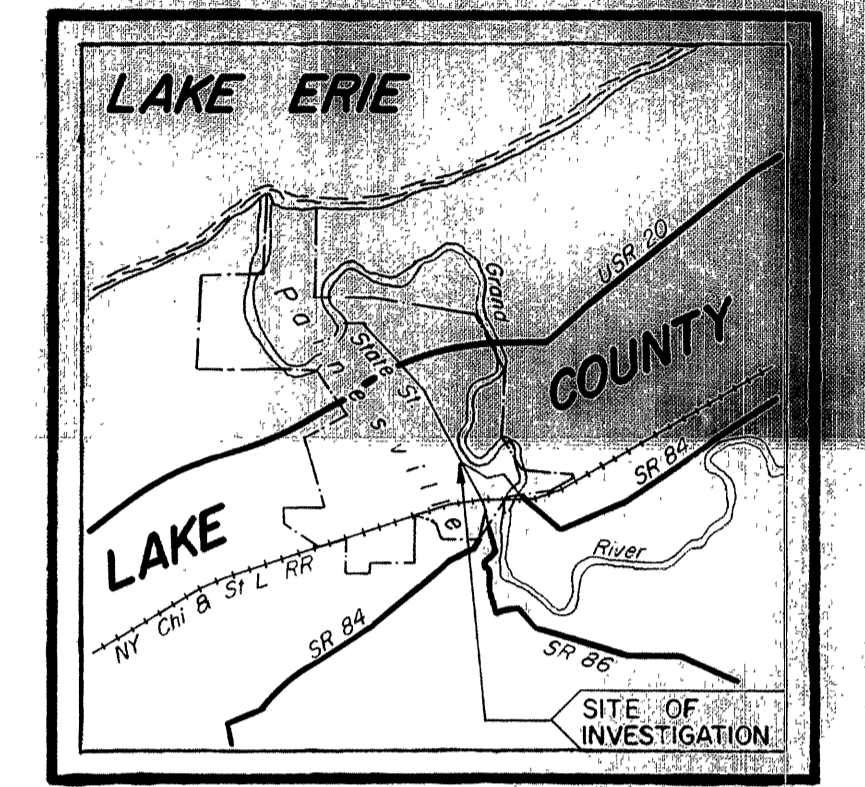


NOTE: INFORMATION SHOWN BY THIS INVESTIGATION WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSIDERED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.



LOCATION MAP

Recon - J.S.M. - 10/12/60
Driller - Core - W.W.H. - 10/25/60 to 11/2/60
Drafting - P.D.G. - 12/30/60

LEGEND FOR PROJECT

DESCRIPTION	OHIO CLASS
Gravel and/or stone fragments	A-1a
Gravel and/or stone fragments with sand	A-1b
Coarse and fine sand	A-3a
Gravel and/or stone fragments with sand and silt	A-2-4
Gravel and/or stone fragments with sand, silt, and clay	A-2-6
Sandy silt	A-4a
Silt and clay	A-6a
Shale	Visual
Sandstone	Visual
Overburden	Visual
Weathered Shale	Visual

Drive sample - core boring - plan view
 Drive sample - core boring - plotted to vertical scale only
 Number of blows for "Standard Penetration" test
 X=number of blows for the first 6 inches
 Y=number of blows for the second 6 inches
 Water Content nearly equal to or greater than liquid limit
 Indicates a non-plastic material with high water content

Note: Figures beside borings indicate water content in percent, e.g. 15

SUMMARY OF EPIVE SAMPLE SOU TEST DATA

NOTE: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.

STATION & OFFSET	DEPTH FROM-TO	LIQUID LIMIT (%)					PLASTICITY INDEX (%)					CLASS.	STATION & OFFSET	DEPTH FROM-TO	LIQUID LIMIT (%)					PLASTICITY INDEX (%)					CLASS.
		AGG.	C.S.	F.S.	SILT	CLAY	AGG.	C.S.	F.S.	SILT	CLAY				AGG.	C.S.	F.S.	SILT	CLAY	AGG.	C.S.	F.S.	SILT	CLAY	
13+12 26' Lt	2.5-3.5	12	20	19	9	10	NP	NP	11	A-1-b	17+87 25' Lt	2.5-3.5	14	31	11	8	6	NP	NP	13	A-1-b				
	5.0-6.0	12	27	14	8	9	NP	NP	10	A-1-b		5.0-6.0	14	35	13	-11-	NP	NP	13	A-1-b					
	7.5-8.5	52	33	5	-	5	NP	NP	16	A-1-a		7.5-8.5	63	15	11	8	3	NP	NP	12	A-1-a				
	10.0-11.0	39	4	9	26	20	25	5	22	A-1-a		10.0-11.0	70	28	2	-	0	NP	NP	17	A-1-a				
	12.5-14.5	14	7	9	38	34	26	11	15	A-6a		12.5-13.5	10	7	5	21	27	26	8	31	A-1a				
	15.0-16.0	0	6	10	35	19	32	12	20	A-6a		15.0-16.0	27	8	10	23	26	24	9	17	A-1a				
	17.5-18.5	22	7	10	28	33	25	11	14	A-6a		17.5-18.5	17	6	10	33	34	23	6	16	A-1a				
	20.0-21.0	15	8	11	29	37	25	11	13	A-6a		20.0-21.0	22	10	10	28	29	24	7	16	A-1a				
13+83 29' Lt	2.5-3.5	19	17	14	12	8	NP	NP	15	A-1-b	17+86 19' Lt	2.5-3.5	9	9	12	34	36	27	8	20	A-1a				
	5.0-6.0	67	13	7	7	6	NP	NP	19	A-1-a		5.0-6.0	12	7	11	37	33	23	11	17	A-1a				
	10.0-11.0	3	6	7	36	16	27	11	19	A-6a		7.5-8.5	14	8	10	32	36	26	7	16	A-1a				
	17.5-18.5	15	10	10	31	34	22	8	16	A-1a		10.0-11.0	12	10	11	36	31	25	7	13	A-1a				
15+22 13' Lt	10.0-11.0	12	9	11	30	38	25	9	15	A-1a	18+48 26' Lt	2.5-3.5	52	36	5	-	4-	NP	NP	20	A-1-a				
	15.0-16.0	8	6	7	36	13	26	11	17	A-6a		5.0-6.0	26	12	18	26	14	NP	NP	20	A-1a				
15+22 28' Lt	2.5-3.5	19	35	13	-	3-	NP	NP	25	A-3a	19+68 27' Lt	2.5-3.5	C	7	82	-11-	NP	NP	23	A-3a					
	5.0-6.0	55	36	5	-	4-	NP	NP	20	A-1-a		5.0-6.0	39	27	22	-12-	NP	NP	19	A-1-b					
	7.5-8.5	77	14	4	-	5-	NP	NP	14	A-1-a		7.5-8.5	10	87	7	-	0	NP	NP	21	A-3a				
	10.0-11.0	86	7	4	-	3-	NP	NP	18	A-1-a		10.0-11.0	17	22	9	17	5	NP	NP	14	A-1-b				
	12.5-13.5	18	7	10	33	32	23	7	18	A-1a		12.5-13.5	59	16	9	9	8	NP	NP	9	A-1-b				
	15.0-16.0	22	11	10	31	30	23	11	18	A-6a		15.0-16.0	11	5	7	38	36	25	6	14	A-1a				
	17.5-18.5	22	8	10	30	30	26	11	13	A-6a		17.5-18.5	12	11	12	32	33	25	8	17	A-1a				
	20.0-21.0	19	18	12	22	22	27	11	18	A-2-6		20.0-21.0	12	8	12	33	35	24	8	14	A-1a				
	22.5-23.5	10	7	10	24	22	25	11	18	A-6a		22.5-23.5	11	8	10	34	37	24	5	14	A-1a				
	25.0-26.0	11	3	60	15	11	NP	NP	20	A-3a		25.0-26.0	27	11	9	25	28	24	7	15	A-1a				
30.0-31.0	59	27	9	-	5-	NP	NP	13	A-1-a																
16+27 27' Lt	2.5-3.5	35	10	22	-	3-	NP	NP	22	A-1-b															
	5.0-6.0	54	33	10	-	3-	NP	NP	16	A-1-a															
	7.5-8.5	59	28	6	5	2	NP	NP	18	A-1-a															
	10.0-11.0	51	25	9	9	6	NP	NP	13	A-1-a															
	12.5-13.5	36	35	9	10	21	NP	NP	11	A-1-b															
	15.0-16.0	30	22	9	19	21	NP	NP	13	A-1-b															
	17.5-18.5	11	10	12	33	34	26	8	17	A-1a															
	20.0-21.0	15	7	10	34	34	26	11	15	A-6a															
	22.5-23.5	10	7	11	36	36	25	7	14	A-1a															
	25.0-26.0	17	7	10	32	34	25	6	13	A-1a															
	27.5-28.5	18	7	10	32	33	25	7	14	A-1a															
	30.0-31.0	17	11	12	33	27	22	5	14	A-1a															

GENERAL INFORMATION

INTRODUCTION
The purpose of this investigation was to establish subsurface conditions in the area of a slide at the top of the high, steep, Grand River Valley wall, adjacent to SR 86, State and Bank Streets, in the City of Painesville.

GEOLOGY OF THE SITE
Geologically, the site is located in a deeply dissected area of the glaciated Lake Plain. Local bedrock comprises siliceous shale with very thin hard sandstone beds, of Devonian Age.

EXPLORATION
The exploration consisted of nine drive sample-core borings, made by means of rotary-type drill rig between October 25 and November 2, 1960.

INVESTIGATIONAL DISCLOSURES
Borings disclose that bedrock surface occurs between approximately elevations 650 and 644 feet. Immediately overlying bedrock is a zone of very dense glacial till (unconfined compressive strength, by test, on the order of 12 tons per square foot) generally occurring below elevation 660 feet, and ranging in thickness between 10 to 20 feet. Overlying the till is a zone of somewhat plastic sandy silts and silt clays, of medium-dense and stiff consistency; the thickness of this zone is on the order of 10 to 15 feet thick. Immediately below the sidewalk and overlying the silts and clays is approximately 10 to 15 feet of granular fill.