

GENERAL INFORMATION

INTRODUCTION

THIS REPORT CONSISTS OF THE SOILS INVESTIGATION OF 2.6 MILES OF PROPOSED SR 283, BEGINNING IN WILLOUGHBY AT THE SR 283-BEACHVIEW ROAD INTERSECTION, EXTENDING NORTHEASTWARD AND TERMINATING IN MENTOR, ON EXISTING SR 615 (MUNSON ROAD), 0.25 MILE EAST OF THE SR 283-SR 615 JUNCTION. INCLUDED IN THIS REPORT IS A SOIL PROFILE OF ANDREWS ROAD.

PROPOSED GRADES INDICATE THE FOLLOWING MAXIMUM PROPOSED CUTS AND FILL EMBANKMENTS:

	CUTS (MAX.)	FILL EMBANKMENTS (MAX.)
SR 283	3'	
ANDREWS ROAD	2'	

GEOLOGY OF THE PROJECT

THE PROJECT IS LOCATED ON THE FLAT, GLACIATED LAKE PLAIN, IN AN AREA WHERE THIN GLACIAL DRIFT OVERLIES SHALE BEDROCK, OF DEVONIAN AGE.

EXPLORATION

EXPLORATORY BORINGS WERE MADE BY MEANS OF TRUCK-MOUNTED MECHANICAL SOIL AUGER, BETWEEN AUGUST 10 AND 16, 1972. INCLUDED IN THIS REPORT IS A LOG OF A BORING MADE FOR LAK-306-6,91.

INVESTIGATIONAL FINDINGS

MATERIALS ENCOUNTERED ON THE PROJECT WERE PREDOMINANTLY COMPRISED OF SANDS (A-3 AND A-3a), GENERALLY HAVING LOW MOISTURE CONTENTS.

WET MATERIALS WERE ENCOUNTERED AT SR 283 STATIONS 51+70, 57+00, 65+70, 77+00, 82+00, 107+00, 132+00, 138+00, 143+00, 146+00 AND ANDREWS ROAD STATION 13+30.

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS— 74 SAMPLES TESTED

DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL WITH SAND	A-1-b(0)	A-1-b	11	43	35	5	6	NP	NP	11	4
FINE SAND	A-3(0)	A-3	3	34	54	5	4	NP	NP	14	25
COARSE AND FINE SAND	-----	A-3a	3	44	40	8	5	NP	NP	10	44
SANDY SILT	A-4(1)	A-4a	1	11	48	22	18	23	10	21	1

TOPSOIL=X'=APPROXIMATE DEPTH.

AUGER BORING-PLAN VIEW.

AUGER BORING PLOTTED TO VERTICAL SCALE ONLY.

NOTE: FIGURES BESIDE BORINGS INDICATE WATER CONTENT IN PERCENT.E.G. 15

● WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT.

⊖ INDICATES A NON-PLASTIC MATERIAL WITH A HIGH WATER CONTENT.

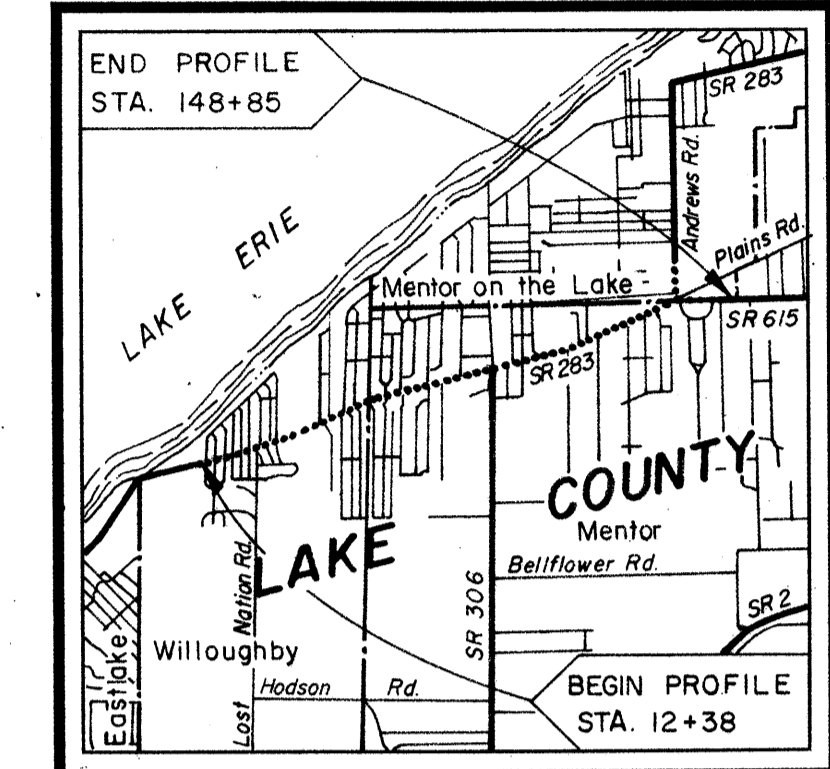
W FREE WATER.

T SEP 26 1972 R OCT 11 1972 L&D

SOIL PROFILE
LAKE COUNTY
LAK-283-7.33
OHIO STATE HIGHWAY TESTING
LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE 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 CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

Fed. No. US-



LOCATION MAP
Recon. - J.S.M. - 7/21/72
Drilling - J.W.P. - 8/10/72 to 8/16/72
Drafting - D.E.N. - 9/26/72

SUMMARY OF SOIL TEST DATA

NOTE: NP SHOWN IN LIQUID LIMIT AND PLASTICITY INDEX COLUMNS INDICATES THAT THE MATERIAL IS NON-PLASTIC.
*DENOTES SAMPLE TAKEN AT OR NEAR GRADE

STATION & OFFSET	DEPTH FROM	%	%	%	%	%	L.L.	P.I.	%	SHTL CLASS	STATION & OFFSET	DEPTH FROM	%	%	%	%	%	L.L.	P.I.	%	SHTL CLASS	
																						TO
SR 283 AND MUNSON ROAD (SR 615)																						
15+35 30'Lt	0.0-5.0	4	55	30	6	5	NP	NP	5	A-3a*	88+40 250'Lt	0.0-5.0	3	18	63	11	5	NP	NP	14	A-3a*	
	5.0-10.0	1	50	39	5	5	NP	NP	5	A-3a		5.0-10.0	1	26	63	7	3	NP	NP	19	A-3	
18+50 30'Lt	0.9-5.0	3	56	31	5	5	NP	NP	5	A-3a*	91+75 24'Rt	0.0-6.0	3	30	51	8	8	NP	NP	14	A-3a*	
	5.0-11.0	3	48	30	16	3	NP	NP	7	A-3a		6.0-11.0	3	26	49	14	8	NP	NP	18	A-3a	
21+65 70'Rt	0.0-5.0	5	45	31	14	5	NP	NP	6	A-3a*	97+20 24'Rt	0.0-5.0	6	43	41	5	5	NP	NP	7	A-3*	
	5.0-11.0	4	47	33	13	3	NP	NP	5	A-3a		5.0-11.0	4	42	39	10	5	NP	NP	15	A-3a	
26+60 50'Rt	0.0-5.0	4	58	30	4	4	NP	NP	5	A-3a*	102+00 23'Rt	0.0-6.0	5	39	37	11	8	NP	NP	9	A-3a*	
	5.0-11.0	2	41	38	14	5	NP	NP	6	A-3a		6.0-11.0	3	33	48	11	5	NP	NP	11	A-3a	
32+00 50'Rt	0.0-5.0	3	59	27	6	5	NP	NP	6	A-3a*	107+00 40'Rt	0.0-5.0	2	42	41	10	5	NP	NP	3	A-3a*	
	5.0-10.0	2	44	39	10	5	NP	NP	5	A-3a		5.0-10.0	0	52	39	5	4	NP	NP	22	A-3a	
	10.0-12.0	3	51	37	5	4	NP	NP	5	A-3a	112+00 40'Rt	0.0-5.0	3	58	31	4	4	NP	NP	5	A-3a*	
37+00 45'Rt	0.6-5.0	4	59	26	6	5	NP	NP	6	A-3a*		5.0-11.0	3	45	42	5	5	NP	NP	6	A-3	
	5.0-9.0	2	58	34	3	3	NP	NP	5	A-3a	117+00 40'Rt	0.0-5.0	3	44	40	7	6	NP	NP	7	A-3a*	
	9.0-11.0	3	38	44	11	4	NP	NP	9	A-3a		5.0-11.0	3	52	39	3	3	NP	NP	5	A-3a	
42+00 45'Rt	0.0-5.0	9	53	30	4	4	NP	NP	5	A-1-b*	121+50 40'Rt	0.0-6.0	2	46	42	5	5	NP	NP	6	A-3*	
	5.0-9.0	5	42	37	14	2	NP	NP	7	A-3a		6.0-11.0	2	41	45	8	4	NP	NP	19	A-3a	
	9.0-12.0	3	37	48	9	3	NP	NP	14	A-3a	126+70 50'Rt	0.0-5.0	4	53	32	6	5	NP	NP	5	A-3a*	
47+15 45'Rt	0.0-3.0	10	43	27	10	10	NP	NP	6	A-1-b*		5.0-10.0	2	47	39	10	2	NP	NP	13	A-3a	
	3.0-8.0	7	39	44	5	5	NP	NP	5	A-3*		10.0-12.0	2	53	35	7	3	NP	NP	19	A-3a	
	8.0-12.0	4	32	55	5	4	NP	NP	17	A-3	132+00 20'Rt	0.0-5.0	4	46	37	9	4	NP	NP	7	A-3a*	
51+70 45'Rt	0.0-5.0	5	41	44	5	5	NP	NP	8	A-3*		5.0-9.0	2	49	41	7	1	NP	NP	17	A-3a	
	5.0-7.5	7	38	48	4	3	NP	NP	15	A-3*		9.0-11.0	1	41	51	4	3	NP	NP	20	A-3	
	7.5-12.0	4	39	50	4	3	NP	NP	20	A-3	138+00 40'Lt	0.0-5.0	2	25	60	10	3	NP	NP	12	A-3a*	
57+00 40'Rt	0.0-5.0	4	37	51	4	4	NP	NP	4	A-3*		5.0-7.0	1	45	47	4	3	NP	NP	20	A-3*	
	5.0-8.0	7	43	43	3	4	NP	NP	10	A-1-b		7.0-12.0	1	32	58	5	4	NP	NP	22	A-3	
	8.0-12.0	0	19	72	5	1	NP	NP	22	A-3	143+00 22'Lt	0.6-5.0	1	25	57	12	5	NP	NP	24	A-3a*	
61+50 35'Rt	0.0-5.0	0	19	72	5	4	NP	NP	9	A-3*		5.0-10.0	3	42	45	5	5	NP	NP	17	A-3*	
	5.0-9.0	6	37	41	10	5	NP	NP	8	A-3a		10.0-12.0	2	30	56	9	3	NP	NP	19	A-3a	
	9.0-12.0	18	32	41	5	4	NP	NP	17	A-1-b	146+00 25'Lt	0.0-5.0	1	11	48	22	18	23	10	21	A-4a*	
65+70 35'Rt	0.5-6.0	3	36	51	5	5	NP	NP	4	A-3*		5.0-10.0	2	17	74	6	1	NP	NP	24	A-3	
	6.0-10.0	2	34	58	3	3	NP	NP	19	A-3	ANDREWS ROAD (SR 283)											
	10.0-13.0	1	22	68	5	4	NP	NP	21	A-3	3+30 35'Rt	0.0-5.0	1	11	67	12	9	NP	NP	13	A-3a*	
72+00 24'Lt	0.0-5.0	6	20	61	8	5	NP	NP	6	A-3a*		5.0-8.0	2	38	45	8	7	NP	NP	19	A-3a	
	5.0-10.0	2	18	71	5	4	NP	NP	13	A-3		8.0-10.0	2	55	41	1	1	NP	NP	24	A-3a	
	10.0-12.0	2	41	49	4	4	NP	NP	19	A-3	7+75 20'Rt	0.0-5.0	4	47	39	5	5	NP	NP	6	A-3a*	
77+00 24'Lt	0.0-5.0	5	33	52	5	5	NP	NP	7	A-3*		5.0-10.0	3	57	34	3	3	NP	NP	5	A-3a	
	5.0-9.0	2	38	50	5	5	NP	NP	9	A-3												
	9.0-12.0	2	27	65	3	3	NP	NP	21	A-3												
82+00 24'Lt	0.0-5.0	5	31	46	9	9	NP	NP	7	A-3a*												
	5.0-9.0	7	39	43	6	5	NP	NP	9	A-3a												
	9.0-11.0	3	34	54	5	4	NP	NP	20	A-3												