

Summary of Soil Laboratory Tests

Widening of I-75 from SR7 to SR122, Lowndes County

Project Name: Widening of I-75 from SR7 to SR122, Lowndes County

GDOT Project No.: NHS00-0000-00(762)

GDOT P.I. No.: 0000762

MAAI Project No.: 11512

Sample location:	Ramp DD 96+00, BL	Ramp AA 40+00, BL	Ramp BB 52+00, 10' Lt	Ramp BB 62+00, BL	Ramp BB 70+00, BL
Sample depth:	1' - 5'	1' - 5'	1' - 5'	1' - 5'	1' - 5'
Lab No.:	4737	4740	4742	4744	4746
Date sampled:	11/12/2013	11/13/2013	11/13/2013	11/13/2013	11/13/2013
Date tested:	12/18/2013	12/10/2013	12/10/2013	12/12/2013	12/12/2013
Soil description:	Red clayey sand	Grey clayey sand	Tan clayey sand	Tan/gloden sand	Grey sand
% Passing No. 10:	100.0	100.0	100.0	100.0	100.0
% Passing No. 20:	93.5	97.0	92.9	94.3	98.4
% Passing No. 40:	79.3	81.4	76.0	78.0	80.6
% Passing No. 60:	61.9	61.8	56.0	58.8	61.1
% Passing No. 100:	40.5	41.4	34.8	36.2	35.2
% Passing No. 200:	25.2	26.7	22.5	18.5	20.3
% Clay:	18.1	20.6	16.3	9.6	13.1
D ₇₅ (mm)	0.373	0.357	0.414	0.391	0.365
Total volume change:	4.4	5.0	1.9	5.0	5.2
% Swell:	3.2	3.6	0.6	4.7	3.9
% Shrinkage:	1.2	1.4	1.3	0.3	1.3
Max. Dry Density (pcf):	122.8	118.8	119.5	122.0	119.6
% Optimal Moisture:	9.4	10.6	10.3	9.6	9.2
Liquid Limit:		21.0		NP	NP
Plastic Limit:		18.0		NP	NP
Plasticity Index:		3		NP	NP
Erosion index	7.06	6.93	7.42	9.02	8.53
CBR					
Resistivity					
In-situ Moist Content, %	8.8	12.5	10.6	7.8	7.7
Ph					
Organic					
GDOT Class:	IIB1	IIB2	IIB2	IA1	IA2

Remarks: GDOT Methods GDT-4, GDT-6, GDT-67

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