

Boring Summary
I-35 / Highway 92 Interchange, Warren County
IM-035-2(353)63--13-91

May 9, 2012

Borrow 45							
Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
234				Moist	Sample	1	A: Black Silty Clay, Top Soil
			S: 3 to 5	Moist	Sample	7	B: Brown Silty Clay
			S: 8 to 10	Moist	Sample	24	C: Brown Glacial Till
			S: 26 to 28	Moist	Sample	30	D: Gray Glacial Till

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
233				Moist	234A	1	A: Black Silty Clay, Top Soil
			S: 2 to 4	Moist	Sample	5	B: Brown Silty Clay
			S: 7 to 9	Moist	Sample	29	C: Brown Glacial Till
			S: 30 to 32	Moist	Sample	40	D: Gray Glacial Till

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
219				Moist	234A	1	A: Black Silty Clay, Top Soil
				Moist	233B	2.5	B: Brown Silty Clay
			S: 5 to 7	Moist	Sample	18	C: Brown Glacial Till
			S: 20 to 22	Moist	Sample	60	D: Gray Glacial Till

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
216				Moist	234A	2	A: Black Silty Clay, Top Soil
			S: 5 to 7	Moist	Sample	20	B: Brown Glacial Till

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
217				Moist	234A	1	A: Black Silty Clay, Top Soil
				Moist	219C	18	B: Brown Glacial Till
				Moist	219D	55	C: Gray Glacial Till
				H2O: 3.3' (96 hr.)			

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
218				Moist	234A	2	A: Black Silty Clay, Top Soil
				Moist	216B	10	B: Brown Glacial Till
				H2O: 3.8' (96 hr.)			

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Borrow 47							
Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
239				Moist	Sample	1	A: Black Silty Clay, Top Soil
			S: 3 to 5	Moist	Sample	18	B: Brown Glacial Till
			S: 19 to 21	Moist	Sample	35	C: Gray Glacial Till
						H ₂ O: 1.7' (96 hr.)	

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
240				Moist	239A	2	A: Black Silty Clay, Top Soil
				Moist	241B	3	B: Brown Silty Clay
				Moist	239B	18	C: Brown Glacial Till
				Moist	239C	45	D: Gray Glacial Till
						H ₂ O: 1.8' (96 hr.)	

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
238				Moist	239A	1	A: Black Silty Clay, Top Soil
				Moist	239B	22	B: Brown Glacial Till
				Moist	239C	25	C: Gray Glacial Till
						H ₂ O: 2.4' (96 hr.)	

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
241				Moist	239A	1	A: Black Silty Clay, Top Soil
			S: 3 to 5	Moist	Sample	6	B: Brown Silty Clay
			S: 8 to 10	Moist	Sample	18	C: Brown/Gray Glacial Till
			S: 19 to 21	Moist	Sample	55	D: Gray Glacial Till
						H ₂ O: 41.7' (96 hr.)	

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
237				Moist	239A	0.5	A: Black Silty Clay, Top Soil
			S: 5 to 7	Moist	Sample	10	B: Brown Glacial Till
						H ₂ O: None (96 hr.)	

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Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
242				Moist	239A	0.5	A: Black Silty Clay, Top Soil
			S: 2 to 4	Moist	Sample	5	B: Brown Silty Clay
			S: 10 to 12	Moist	Sample	38	C: Brown Glacial Till
				Wet	Sample	45	D: Gray Glacial Till, With Sand Seems
H2O: 7.6' (96 hr.)							

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
244				Moist	239A	0.4	A: Black Silty Clay, Top Soil
			S: 1 to 3	Moist	Sample	8	B: Brown Silty Clay
			S: 15 to 17	Moist	Sample	28	C: Brown Glacial Till
			S: 30 to 32	Moist	Sample	65	D: Gray Glacial Till, Sand Seem at 28'
H2O: 3.3' (96 hr.)							

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
245				Moist	239A	0.5	A: Black Silty Clay, Top Soil
				Moist	244B	8	B: Brown Silty Clay
				Moist	244C	30	C: Brown Glacial Till
				Wet	Sample	65	D: Gray Glacial Till, With Sand Seems
H2O: 19.6' (96 hr.)							

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
243				Moist	239A	0.5	A: Black Silty Clay, Top Soil
				Moist	244B	8	B: Brown Silty Clay
				Moist	244C	33	C: Brown Glacial Till
				Moist	244D	55	D: Gray Glacial Till, Sand Seem at 28'
H2O: 5.6' (96 hr.)							

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
235				Moist	Sample	0.5	A: Black Silty Clay, Top Soil
			S: 3 to 5	Moist	Sample	6	B: Brown Silty Clay
			S: 13 to 15	Moist	Sample	31.5	C: Brown Glacial Till
			S: 38 to 40	Moist	Sample	40	D: Gray Glacial Till
H2O: 32' (24 hr.)							

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Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
236				Moist	235A	0.5	A: Black Silty Clay, Top Soil
				Moist	235B	2	B: Brown Silty Clay
				Moist	235C	20	C: Brown Glacial Till
				H ₂ O: None (24 hr.)			

Borrow 44							
Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
224				Moist	Sample	1	A: Black Silty Clay, Top Soil
			S: 4 to 6	Moist	Sample	7.5	B: Brown Silty Clay
			S: 14 to 16	Moist	Sample	30	C: Brown Glacial Till
				H ₂ O: 4.2' (72 hr.)			

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
225				Moist	224A	1	A: Black Silty Clay, Top Soil
				Moist	224C	30	B: Brown Glacial Till
				H ₂ O: Caved In (72 hr.)			

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
222				Moist	Sample	1	A: Black Silty Clay, Top Soil
			S: 13 to 15	Moist	Sample	30	B: Brown Glacial Till
				H ₂ O: 5.8' (72 hr.)			

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
223				Moist	222A	1	A: Black Silty Clay, Top Soil
				Moist	222B	6	B: Brown Silty Clay
				Moist	222C	30	C: Brown Glacial Till
				H ₂ O: 5.8' (72 hr.)			

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
220				Moist	Sample	1	A: Black Silty Clay, Top Soil
			S: 1 to 3	Moist	Sample	4.5	B: Gray Glacial Till (Gumbo Like)
			S: 11 to 13	Moist	Sample	15	C: Brown Glacial Till
				H ₂ O: None (72 hr.)			

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Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
221				Moist	220A	1	A: Black Silty Clay, Top Soil
				Moist	220B	6	B: Brown Silty Clay
				Moist	220C	15	C: Brown Glacial Till
				H ₂ O: None (24 hr.)			

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
226				Moist	Sample	1	A: Black Silty Clay, Top Soil
			S: 4 to 6	Moist	Sample	12	B: Brown Silty Clay
			S: 18 to 20	Moist	Sample	35	C: Brown/Gray Glacial Till with Sand Seams
				H ₂ O: 6.5' (24 hr.)			

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
227				Moist	226A	1	A: Black Silty Clay, Top Soil
				Moist	226B	12	B: Brown Silty Clay
				Moist	226C	35	C: Brown/Gray Glacial Till with Sand Seams
				H ₂ O: 7' (24 hr.)			

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
232				Moist	Sample	1	A: Black Silty Clay, Top Soil
			S: 8 to 10	Moist	Sample	15.5	B: Brown Silty Clay
			S: 24 to 26	Moist	Sample	40	C: Brown/Gray Glacial Till with Sand Seams
				H ₂ O: 7' (24 hr.)			

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
231				Moist	232A	1	A: Black Silty Clay, Top Soil
				Moist	232B	13.5	B: Brown Silty Clay
				Moist	232C	40	C: Brown/Gray Glacial Till with Sand Seams
				H ₂ O: 5' (24 hr.)			

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
229				Moist	Sample	1	A: Black Silty Clay, Top Soil
			S: 9 to 11	Moist	Sample	24	B: Brown Glacial Till
			S: 28 to 30	Moist	Sample	30	C: Gray Glacial Till
				H ₂ O: 29' (24 hr.)			

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Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
230				Moist	Sample	1.5	A: Black Silty Clay, Top Soil
			S: 9 to 11	Moist	Sample	20	B: Brown Glacial Till
			S: 28 to 30	Moist	Sample	30	C: Gray Glacial Till
			H ₂ O: 5.5' (24 hr.)				

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
228				Moist	227A	1.5	A: Black Silty Clay, Top Soil
				Moist	227B	15	B: Brown Silty Clay
				Moist	227C	40	C: Brown Glacial Till
			H ₂ O: 29' (24 hr.)				

Borrow 48							
Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
200				Moist	Sample	0.5	A: Black Silty Clay, Top Soil
			S: 3 to 5	Moist	Sample	7	B: Brown Silty Clay
			S: 15 to 17	Moist	Sample	20	C: Brown Glacial Till
			H ₂ O: 3' (48 hr.)				

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
201				Moist	Sample	0.5	A: Black Silty Clay, Top Soil
			S: 2 to 4	Moist	Sample	5.5	B: Brown Silty Clay
			S: 8 to 10	Moist	Sample	15	C: Brown Glacial Till
			H ₂ O: 7.5' (48 hr.)				

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
204				Moist	Sample	0.5	A: Black Silty Clay, Top Soil
			S: 2 to 4	Moist	Sample	7	B: Brown Silty Clay
			S: 8 to 10	Moist	Sample	10	C: Brown Glacial Till
			H ₂ O: 9' (48 hr.)				

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
203				Moist	204A	0.5	A: Black Silty Clay, Top Soil
				Moist	204B	8	B: Brown Silty Clay
				Moist	204C	10	C: Brown Glacial Till
			H ₂ O: 2' (48 hr.)				

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Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
202				Moist	Sample	0.5	A: Black Silty Clay, Top Soil
			S: 1 to 3	Moist	Sample	5.5	B: Brown Silty Clay
			S: 8 to 10	Moist	Sample	10	C: Brown Glacial Till
			H ₂ O: 10' (48 hr.)				

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
199				Moist	200A	0.5	A: Black Silty Clay, Top Soil
				Moist	200B	7	B: Brown Silty Clay
				Moist	200C	15	C: Brown Glacial Till
			H ₂ O: 6.5' (48 hr.)				

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
197				Moist	Sample	0.5	A: Black Silty Clay, Top Soil
			S: 1 to 3	Moist	Sample	3	B: Brown Silty Clay
			S: 8 to 10	Moist	Sample	20	C: Brown Glacial Till
			H ₂ O: None (48 hr.)				

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
198				Moist	197A	0.5	A: Black Silty Clay, Top Soil
				Moist	197B	7.5	B: Brown Silty Clay
				Moist	197C	20	C: Brown Glacial Till
			H ₂ O: None (48 hr.)				

Borrow 20							
Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
192				Moist	Sample	0.5	A: Black Silty Clay, Top Soil
			S: 4 to 6	Moist	Sample	10	B: Brown/Gray Glacial Till
			H ₂ O: 8.5' (24 hr.)				

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
196				Moist	Sample	0.5	A: Black Silty Clay, Top Soil
			S: 8 to 10	Moist	Sample	41	B: Brown Glacial Till
			S: 43 to 45	Wet	195C	45	C: Gray Glacial Till with Sand Seams
			H ₂ O: 20' (24 hr.)				

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Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
195				Moist	Sample	0.5	A: Black Silty Clay, Top Soil
			S: 13 to 15	Moist	Sample	23	B: Brown Glacial Till
			S: 24 to 26	Wet	Sample	33	C: Gray Glacial Till with Sand Seams
			S: 33 to 35	Moist	Sample	35	D: Shale
H2O: 6' (24 hr.)							

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
194				Moist	Sample	0.5	A: Black Silty Clay, Top Soil
			S: 9 to 11	Moist	Sample	46	B: Brown Glacial Till
			S: 48 to 50	Moist	Sample	50	C: Gray Glacial Till
H2O: 28' (24 hr.)							

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
							

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
193				Moist	195A	0.5	A: Black Silty Clay, Top Soil
			S: 8 to 10	Moist	195B	30	C: Brown Glacial Till
			S: 43 to 45	Wet	195C	35	D: Gray Glacial Till with Sand Seams
H2O: 13.5' (24 hr.)							

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
190				Moist	192A	0.5	A: Black Silty Clay, Top Soil
				Moist	191B	4	C: Brown Silty Clay
				Moist	192B	10	D: Brown Glacial Till
H2O: None (24 hr.)							

Hole #	Station	Distance	CSM	Moisture	Same As	Depth to Bottom of Layer (ft)	Description
191				Moist	194A	0.5	A: Black Silty Clay, Top Soil
				Moist	Sample	10	C: Brown Silty Clay
				Moist	194B	35	D: Brown Glacial Till
H2O: None (24 hr.)							