



Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: **Strong Pit** Contract Area: **7** Equipment Type: **Becker/Sonic**

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator				Density	Absorption		Watertable (m)	Remarks		
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.		MgSO4				C (%)	F (%)
												A (%)	B (%)				C (%)	F (%)				
2004 Becker Drill																						
04-1	7	90.0	83.0	GP															2.0	FVI		
	0.6	83.0	82.4	CL																FVI		
	1.2	82.4	81.2	GP																FVI		
	3.6	81.2	77.6	CL																FVI		
	2.1	77.6	75.5	SP																FVI		
	2.7	75.5	72.8	GP																FVI		
	11.8	72.8	61.0	ML/CL																TILL-LIKE		
04-2	7.3	97.0	89.7	GP															4	FVI		
	0.8	89.7	88.9	SP															8	FVI		
	0.2	88.9	88.7	ML																FVI		
	2.9	88.7	85.8	SP																FVI		
	1.6	85.8	84.2	CL																FVI		
	0.3	84.2	83.9	SP																FVI		
	11	83.9	72.9	ML/CL																TILL-LIKE		
	4.9	72.9	68.0	SP																FVI		
2005 SONIC DRILL																						
05-1	8.5	97.2	88.7	GP					63	33	4									WSA		
	1.9	88.7	86.8	SP					8	90	2									FVI		
	2.1	86.8	84.7	GPGC					53	40	7									FVI		

FVI= Field Visual Identification
BRX= Bedrock

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					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		Sand Eq.	MgSO4			C (%)	F (%)	
												A (%)	B (%)				C (%)					F (%)
	0.3	84.7	84.4	CL					2	33	65										FVI	
	0.6	84.4	83.8	GP					61	35	4										FVI	
	0.3	83.8	83.5	SP					6	90	4										FVI	
	4.6	83.5	78.9	GPGM					54	37	9										WSA	
	2.1	78.9	76.8	SP					16	80	4										FVI	
	0.3	76.8	76.5	CL						10	90										FVI	
	3.1	76.5	73.4	?SM3?				NO RETURN, SUSPECT SM3												77		FVI
	0.3	73.4	73.1	CL																	FVI	
	0.4	73.1	72.7	SPSM						90	10										FVI	
	2.3	72.7	70.4	SP						98	2										FVI	
	0.9	70.4	69.5	SP					8	90	2										FVI	
	2.5	69.5	67.0	CL							100										FVI	
05-2	10.7	96.6	85.9	GP					57	39	4										WSA	
	0.6	85.9	85.3	GPGM					53	45	7										FVI	
	1.2	85.3	84.1	GP					53	45	2										FVI	
	3.0	84.1	81.1	CL						10	90										FVI	
	2.5	81.1	78.6	SPSM						90	10										FVI	
	3.3	78.6	75.3	SC3					5	65	30										FVI	
	9.2	75.3	66.1	CL						10	90										FVI	
05-3	6.1	97.5	91.4	GPGM					56	38	6										FVI	
	0.9	91.4	90.5	SP							100										FVI	
	7.9	90.5	82.6	CL							100										FVI	
	1.6	82.6	81.0	SC4						55	45										FVI	

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					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.		MgSO4				C (%)	F (%)
												A (%)	B (%)				C (%)	F (%)				
05-7	11.3	97.2	85.9	GPGM					56	39	5										WSA	
	1.0	85.9	84.9	SP					8	90	2										FVI	
	3.2	84.9	81.7	CL						5	95										FVI	
	1.0	81.7	80.7	GP					64	35	1									82	FVI	
	3.3	80.7	77.4	CL							100										FVI	
	3.7	77.4	73.7	GPGM					47	46	7										WSA	
	2.7	73.7	71.0	SPSM					10	80	10										FVI	
	1.2	71.0	69.8	GP					58	40	2									71	FVI	
	0.5	69.8	69.3	CL						30	70										FVI	
	0.8	69.3	68.5	GM1					55	30	15										FVI	
	0.6	68.5	67.9	CL						10	90										FVI	
	0.1	67.9	67.8	SP					8	90	2									68	FVI	
	0.5	67.8	67.3	CL							100										FVI	
05-8	0.6	90.0	89.4	SP					18	80	2										FVI	
	0.5	89.4	88.9	CL							100										FVI	
	1.6	88.9	87.3	GP					58	40	2										FVI	
	2.0	87.3	85.3	CL					10	10	80										FVI	
	0.9	85.3	84.4	GP					57	40	3										FVI	
	1.1	84.4	83.3	CL							100										FVI	
	1.8	83.3	81.5	SM2					10	65	25										FVI	
	2.3	81.5	79.2	SP					33	65	2										81.5 - 73.2 PROPORTIONATELY COMBINED	
	0.8	79.2	78.4	GPGM					60	34	6										FOR WASH SIEVE ANALYSIS	
	1.8	78.4	76.6	SP					33	65	2										G-45 S-50 F-5	

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					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		Sand Eq.	MgSO4			C (%)	F (%)		
												A (%)	B (%)	C (%)			F (%)					C (%)	F (%)
	0.3	76.6	76.3	GPGM					60	34	6												
	3.1	76.3	73.2	GP					58	40	2			62					76	WSA, DEGRADATION: 86			
	0.6	73.2	72.6	SM2					15	65	20									FVI			
	10.3	72.6	62.3	CL							70									FVI			
05-9	7.0	89.0	82.0	CL						5	95									FVI			
	1.8	82.0	80.2	SC1					10	70	15									FVI			
	2.2	80.2	78.0	GPGM					54	36	10									WSA			
	1.5	78.0	76.5	GC1					50	35	15									FVI			
	1.2	76.5	75.3	GP					53	45	2									FVI			
	0.9	75.3	74.4	CL						30	70									FVI			
	1.9	74.4	72.5	SP					18	80	2									FVI			
	0.4	72.5	72.1	GP					50	41	4							73		FVI			
	1.1	72.1	71.0	SP					18	80	2									FVI			
	0.9	71.0	70.1	GP					64	35	1							71		FVI			
	7.0	70.1	63.1	SM2					5	75	20									WSA			
	4.6	63.1	58.5	SP					13	85	2									FVI			
2009 Sonic Drill																							
09-1	5.2	98.6	93.4	GP					59	40	1									FVI			
	6.1	93.4	87.3	CL							100									FVI			
	3.3	87.3	84.0	SM3					15	55	30							87.7		FVI			
	2.1	84.0	81.9	GPGM					59	31	10									WSA			
	0.9	81.9	81.0	CL					5	10	85									FVI			
	1.9	81.0	79.1	SM2					20	60	20									FVI			

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					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		MgSO4				C (%)	F (%)	
												A (%)	B (%)	C (%)		F (%)	C (%)					F (%)
	1.8	79.1	77.3	SPSM					42	52	6									WSA		
	3.1	77.3	74.2	SM1					10	75	15									FVI		
	1.2	74.2	73.0	CL							100									FVI		
	4.0	73.0	69.0	SP					24	75	1									FVI		
09-2	0.6	78.7	78.1	ASPH																FVI, ASPHALT GRINDINGS		
	2.4	78.1	75.7	GP					50	49	1									FVI		
	2.0	75.7	73.7	SP						99	1									FVI		
	5.8	73.7	67.9	SPSM						91	9			63						WSA, FAA-42.5, SG-2.627		
	7.6	67.9	60.3	CL							100									FVI		
	2.4	60.3	57.9	SP					5	94	1									FVI		
	3.1	57.9	54.8	SP					33	63	4									WSA		
	2.1	54.8	52.7	CL						10	90									FVI		
09-3	0.6	97.6	97.0	ML						25	75									FVI		
	4.9	97.0	92.1	GPGM					58	36	6									WSA		
	9.4	92.1	82.7	ML/CL					5	10	85									FVI		
	1.0	82.7	81.7	SM3					20	50	30									FVI		
	7.0	81.7	74.7	GPGM					49	39	12							75.7		WSA		
	1.2	74.7	73.5	SPSM					10	82	8									FVI, MED-FINE SAND		
	0.3	73.5	73.2	ML						40	60									FVI		
	5.2	73.2	68.0	SPSM					4	86	10									FVI, MED-FINE SAND		
09-4	11.0	95.9	84.9	GP					58	40	2								83.3	FVI		
	9.4	84.9	75.5	CL							100									FVI		

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					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		MgSO4				C (%)	F (%)	
												A (%)	B (%)	C (%)		F (%)	C (%)					F (%)
	5.2	75.5	70.3	SM4					13	47	40									WSA		
	1.8	70.3	68.5	GPGM					59	36	5									WSA		
	0.6	68.5	67.9	CL						30	70									FVI		
	1.6	67.9	66.3	SPSM						90	10									FVI, MED-FINE SAND		
09-5	2.4	90.1	87.7	GP					59	40	1									FVI		
	1.3	87.7	86.4	SC2					5	70	25									FVI		
	1.2	86.4	85.2	CL							100									FVI		
	0.6	85.2	84.6	SP						99	1									FVI		
	3.9	84.6	80.7	CL						5	95									FVI		
	6.1	80.7	74.6	GPGM					48	40	12									WSA		
	2.8	74.6	71.8	SM3						68	32									WSA		
	3.0	71.8	68.8	ML						40	50									FVI, HARDPAN LIKE		
	3.1	68.8	65.7	MLCL					5	25	70									FVI		
	5.2	65.7	60.5	SM2						79	21							63.6		WSA		
09-6	1.8	88.6	86.8	GP					56	40	4									FVI		
	0.6	86.8	86.2	CL							100									FVI		
	3.7	86.2	82.5	SM1						82	18									WSA, FINE SAND		
	4.0	82.5	78.5	CL					1	9	90							82.5		FVI		
	1.2	78.5	77.3	SP					4	95	1									FVI, COARSE-MED SAND		
	3.9	77.3	73.4	SM3					4	60	36									WSA, FINE SAND		
	2.2	73.4	71.2	GP					52	45	3									FVI		
	1.8	71.2	69.4	SP					4	95	1									FVI, MED SAND		
	0.6	69.4	68.8	CL						20	80									FVI		

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					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.	MgSO4			C (%)	F (%)				
												A (%)	B (%)			C (%)	F (%)							
	0.6	68.8	68.2	GP					59	40	1												FVI	
	9.2	68.2	59.0	SPSM					3	91	6												WSA, MED SAND	
09-7	1.5	79.4	77.9	SM/GM	SILTY FILL MATERIAL																		FVI	
	2.1	77.9	75.8	?	NO RETURN, PUSHED ROCK THROUGH EXTREMELY SOFT MATERIAL																			FVI
	1.3	75.8	74.5	SPSM						90	10												FVI, MED-FINE SAND	
	11.9	74.5	62.6	CL						15	85												FVI	
	1.2	62.6	61.4	SM2						80	20												FVI, MED-FINE SAND	
	0.6	61.4	60.8	CL						25	75												FVI	
	0.6	60.8	60.2	SPSM						90	10												FVI, FINE SAND	
	0.3	60.2	59.9	CL						25	75												FVI	
	1.8	59.9	58.1	SP					4	95	1												FVI, MED-FINE SAND	
	0.6	58.1	57.5	CL						25	75												FVI	
	4.6	57.5	52.9	SPSM					6	86	8												WSA, MED-FINE SAND	
09-8	0.9	82.9	82.0	SC4					10	50	40												FVI	
	2.1	82.0	79.9	SM3					10	60	30												FVI	
	4.6	79.9	75.3	GP					59	40	1												FVI	
	0.6	75.3	74.7	SM1					25	60	15												FVI	
	5.5	74.7	69.2	SPSM					16	73	11												WSA, MED-FINE SAND	
	0.6	69.2	68.6	SM2					5	75	20												FVI	
	4.3	68.6	64.3	SP					30	69	1												FVI, MED-FINE SAND	
	0.9	64.3	63.4	CL							100												FVI	
	10.1	63.4	53.3	GPGM					50	45	5												WSA, MED-FINE SAND	

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					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.		MgSO4				C (%)	F (%)
												A (%)	B (%)				C (%)	F (%)				
09-9	0.9	68.9	68.0	GPGM					53	40	7										FVI	
	4.9	68.0	63.1	OB	OVERBURDEN FILL MATERIAL																FVI	
	6.4	63.1	56.7	SPSM						95	5										FVI, MED-FINE SAND	
09-10	1.2	86.8	85.6	GP					59	40	1										FVI	
	5.2	85.6	80.4	CL							100										FVI	
	2.1	80.4	78.3	ML/CL						10	90										FVI, SOME ORGANICS	
	11.9	78.3	66.4	SP					25	72	3										WSA, MED-FINE SAND	
	4.6	66.4	61.8	ML						43	57										WSA, VERY FINE SAND	
	4.6	61.8	57.2	SP					39	57	4										WSA, MED-FINE SAND	
09-11	7.0	99.2	92.2	SPSM					41	51	8										WSA	
	3.7	92.2	88.5	CL							100										FVI	
	0.6	88.5	87.9	ML/CL						10	90										FVI	
	2.4	87.9	85.5	SM2					25	50	25										FVI	
	5.2	85.5	80.3	GPGM					64	26	10										WSA	
	2.1	80.3	78.2	CL					10	20	70										FVI	
	3.4	78.2	74.8	SP						99	1										FVI, MED-FINE SAND	
	5.2	74.8	69.6	SM3						65	35										WSA, FINE SAND	
09-12	0.8	96.9	96.1	TS																	FVI, TOPSOIL	
	4.7	96.1	91.4	GP					64	35	1										FVI	
	4.0	91.4	87.4	CL							100										FVI	
	1.8	87.4	85.6	SM1					15	70	15										FVI, FINE SAND	
	3.9	85.6	81.7	SM2					26	48	26										WSA, FINE SAND	

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					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		Sand Eq.	MgSO4			C (%)	F (%)	
												A (%)	B (%)				C (%)					F (%)
	6.6	81.7	75.1	GP					54	45	1									FVI		
	0.8	75.1	74.3	CL							100									FVI		
	6.7	74.3	67.6	SPSM					2	89	9									WSA, COARSE-FINE SAND		
09-13	0.6	97.8	97.2	TS																FVI, TOPSOIL		
	10.7	97.2	86.5	GP					59	40	1	PUSHED ROCK BETWEEN 89.0 & 86.4 (ASSUME GP)								FVI		
	3.0	86.5	83.5	SP					24	75	1									FVI, MED-FINE SAND		
	0.6	83.5	82.9	SM2					20	60	20									FVI, MED-FINE SAND		
	2.2	82.9	80.7	GM1					46	38	16									WSA		
	3.6	80.7	77.1	SP					34	65	1									FVI, MED-FINE SAND		
	2.8	77.1	74.3	GPGM					60	35	5								75.5	FVI		
	1.4	74.3	72.9	SP					4	95	1									FVI, MED SAND		
	3.1	72.9	69.8	SM4					5	55	40									FVI		
	1.6	69.8	68.2	SP						99	1									FVI, MED SAND		
09-14	0.6	90.7	90.1	GP					59	40	1									FVI		
	1.7	90.1	88.4	SP					24	75	1									FVI		
	1.6	88.4	86.8	GP					54	45	1									FVI		
	3.3	86.8	83.5	CL					5	10	85									FVI		
	2.8	83.5	80.7	SM1					10	65	15									FVI		
	4.2	80.7	76.5	GM1					45	42	13									WSA		
	1.9	76.5	74.6	SP					34	65	1									FVI, MED SAND		
	13.4	74.6	61.2	CL						25	75									FVI		
09-15(A)	3.0	87.0	84.0	SP					40	59	1									FVI		

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					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		Sand Eq.	MgSO4			C (%)	F (%)	
												A (%)	B (%)				C (%)					F (%)
	0.9	84.0	83.1	SM3					70	30									FVI			
	3.4	83.1	79.7	CL					1	9	90								FVI			
	3.1	79.7	76.6	ML/CL					9	31	60								FVI			
	1.8	76.6	74.8	GPGM					49	51	10								WSA			
	1.2	74.8	73.6	GM3					50	20	30								FVI			
	4.0	73.6	69.6	GPGM					53	41	6								WSA			
	3.6	69.6	66.0	GM1					55	30	15								FVI			
	4.6	66.0	61.4	SP					38	62	3								WSA			
	4.6	61.4	56.8	SM2					2	73	25								WSA, FINE SAND			
09-16(B)	0.6	86.7	86.1	GP					60	38	2								FVI			
	4.0	86.1	82.1	CL/ML					10	20	70								FVI			
	2.7	82.1	79.4	GPGM					53	36	11								WSA			
	9.2	79.4	70.2	GP					49	48	3								WSA			
	2.7	70.2	67.5	SP					1	98	1								FVI, MED SAND			
	8.2	67.5	59.3	CL							100								FVI			
	2.8	59.3	56.5	SP					25	72	3								M-C SAND			
09-17(C)	0.9	87.0	86.1	SP					34	60	1								FVI, M-C SAND			
	7.6	86.1	78.5	CL							100								FVI			
	1.9	78.5	76.6	SC4					10	50	40								FVI			
	2.1	76.6	74.5	SP					14	85	1								FVI			
	8.8	74.5	65.7	SP					45	51	4								WSA			
	8.9	65.7	56.8	GP					79	17	4								WSA			

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WSA= Washed Sieve Analysis

LVI= Lab Visual Identification



Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: **Strong Pit** Contract Area: **7** Equipment Type: **Becker/Sonic**

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation(m)	Soil Classification	Gradation of Materials						Soundness Indicator				Density	Absorption		Watertable (m)	Remarks			
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		Sand Eq.	MgSO4			C (%)	F (%)	
												A (%)	B (%)				C (%)					F (%)
09-18(D)	5.8	79.5	73.7	SP					34	65	1									M-C SAND		
	7.9	73.7	65.8	SPSM					2	91	7									WSA, F-M SAND		
	4.0	65.8	61.8	CL							100									FVI		
	2.7	61.8	59.1	SP					18	80	2									FVI, M-C SAND		
	0.3	59.1	58.8	CL							100									FVI		
	1.9	58.8	56.9	SPSM					22	70	8									FVI, F-M SAND		
	0.2	56.9	56.7	CL							100											
	1.6	56.7	55.1	SP					9	90	1									FVI, F-M SAND		
09-13(B)	0.6	98.7	98.1	GP					60	38	2									FVI		
	4.0	98.1	94.1	CL/ML					10	20	70									FVI		
	2.7	94.1	91.4	GPGM					53	36	11									WSA		
	9.2	91.4	82.2	GP					49	48	3									WSA		
	2.7	82.2	79.5	SP					1	98	1									FVI, M SAND		
	8.2	79.5	71.3	CL							100									FVI		
	2.8	71.3	68.5	SP					25	72	3									FVI, M-C SAND		
2010 Sonic Drill																						
10-1	1.8	88.9	87.1	GPGM					64	30	6									FVI		
	3.1	87.1	84.0	CL							100									FVI		
	0.9	84.0	83.1	SP					16	80	4									WSA		
	3.0	83.1	80.1	CL					2	3	95									FVI		
	2.5	80.1	77.6	SM2					11	65	24									FVI (Same as 10-2 Sa-2)		
	1.2	77.6	76.4	GPGM					42	50	8									WSA		
	1.8	76.4	74.6	SM1					36	51	13									WSA		

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: **Strong Pit** Contract Area: **7** Equipment Type: **Becker/Sonic**

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials						Soundness Indicator						Density	Absorption		Watertable (m)	Remarks		
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		MgSO4		C (%)	F (%)				
												A (%)	B (%)	C (%)	F (%)	C (%)						F (%)	
	0.6	74.6	74.0	SPSM					20	75	5											FVI	
	6.1	74.0	67.9	CL					3	2	95												FVI
10-2	2.4	85.8	83.4	GP					55	43	2												FVI
	1.0	83.4	82.4	SPSM					25	70	5												WSA
	3.0	82.4	79.4	CL					3	2	95												FVI
	4.3	79.4	75.1	SM2					11	65	24												WSA
	0.9	75.1	74.2	GPGM					55	38	7												FVI
	3.0	74.2	71.2	SPSM					13	76	11												WSA
	0.9	71.2	70.3	SPSM						93	7												FVI
	1.3	70.3	69.0	SM4						60	40												FVI
	1.1	69.0	67.9	ML					10	20	70												FVI
	2.2	67.9	65.7	SM1					4	81	15												WSA
	0.9	65.7	64.8	SM4						60	40												FVI, 3" ALTERNATING SP/ML/SP/ML
10-3	2.7	88.7	86.0	SP					23	75	2												FVI
	1.9	86.0	84.1	CL							100												FVI
	0.9	84.1	83.2	SP						98	2												FVI, FINE SAND
	0.3	83.2	82.9	SM4					1	59	40												FVI
	4.3	82.9	78.6	CL					1	1	98												FVI
	1.2	78.6	77.4	ML/CL						30	70												FVI
	0.9	77.4	76.5	SM3					2	68	30												FVI
	1.2	76.5	75.3	SP					22	75	3												FVI
	1.5	75.3	73.8	CL					4	6	90												FVI
	1.0	73.8	72.8	SP						97	3												FVI, FINE SAND

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: **Strong Pit** Contract Area: **7** Equipment Type: **Becker/Sonic**

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials						Soundness Indicator				Density	Absorption		Watertable (m)	Remarks			
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		MgSO4				C (%)	F (%)	
												A (%)	B (%)	C (%)		F (%)	C (%)					F (%)
	0.9	72.8	71.9	SM3					40	43	17									WSA		
	1.2	71.9	70.7	SM1					32	56	12									WSA		
	1.8	70.7	68.9	SPSM					6	86	8									WSA		
	1.2	68.9	67.7	GP					50	47	3							19.8		FVI, SUSPECT WATERTABLE		
10-4	3.7	89.3	85.6	SP					45	53	2									FVI		
	0.9	85.6	84.7	SM3						65	35									FVI		
	0.6	84.7	84.1	SPSM						94	6									FVI		
	1.8	84.1	82.3	CL				1	1	98										FVI		
	0.3	82.3	82.0	SPSM						95	5									FVI		
	3.1	82.0	78.9	ML						20	80									FVI		
	2.7	78.9	76.2	CL						5	95									FVI		
	6.4	76.2	69.8	GPGM					46	44	10							16		WSA, SUSPECT WATER TABLE		
	1.5	69.8	68.3	SPSM						94	6									WSA, F-M SAND		
10-5	3.0	88.3	85.3	GP					54	42	4									FVI		
	5.8	85.3	79.5	CL						10	90									FVI		
	1.9	79.5	77.6	ML				4	42	54										WSA		
	1.2	77.6	76.4	ML				5	20	75										FVI		
	1.8	76.4	74.6	GPGM					50	40	10									FVI		
	0.6	74.6	74.0	GM3					45	25	30									FVI		
	1.9	74.0	72.1	SM1					36	44	19									WSA		
	0.6	72.1	71.5	ML					10	25	65									FVI		
	1.5	71.5	70.0	SP						97	3									FVI		
	1.2	70.0	68.8	SM1						85	15									FVI		

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: **Strong Pit**

Contract Area: **7**

Equipment Type: **Becker/Sonic**

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials						Soundness Indicator						Density	Absorption		Watertable (m)	Remarks			
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.	MgSO4		C (%)	F (%)					
												A (%)	B (%)			C (%)						F (%)		
	1.5	68.8	67.3	SPSM					9	85	6											19.8	WSA, SUSPECT WATER TABLE	
10-5B	14.3	96.6	82.3	GP					59	40	1													FVI
	3.1	82.3	79.2	CL							100													FVI
	3.9	79.2	75.3	ML					20	30	50													FVI
	0.6	75.3	74.7	SM1					15	70	15													FVI
	4.3	74.7	70.4	SPSM					39	55	6													WSA
	1.2	70.4	69.2	SM1					3	79	18													WSA
	0.6	69.2	68.6	GPGM					55	35	10													FVI
	0.7	68.6	67.9	ML					10	40	50											67.6		FVI
	0.3	67.9	67.6	SM2					10	70	20													FVI
	1.7	67.6	65.9	GPGM					60	30	10													FVI
	0.9	65.9	65.0	GC1					55	30	15													FVI
10-6	12.2	95.2	83.0	GP					59	40	1													FVI
	1.8	83.0	81.2	SM3						70	30													FVI
	4.0	81.2	77.2	CL							100													FVI
	1.8	77.2	75.4	SM2					5	70	25													FVI
	2.1	75.4	73.3	CL					10	20	70													FVI
	2.2	73.3	71.1	GPGM					55	35	10													FVI
	2.4	71.1	68.7	GM2					50	25	25													FVI
	6.7	68.7	62.0	GPGM					55	40	5											69.8		WSA
10-7	10.7	96.1	85.4	GP					59	40	1													FVI
	7.9	85.4	77.5	CL						20	80													FVI

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: **Strong Pit**

Contract Area: **7**

Equipment Type: **Becker/Sonic**

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials						Soundness Indicator						Density	Absorption		Watertable (m)	Remarks	
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.	MgSO4		C (%)	F (%)			
												A (%)	B (%)			C (%)						F (%)
	0.2	77.5	77.3	PT																FVI, ORGANIC		
	0.4	77.3	76.9	SM2						80	20										FVI	
	5.2	76.9	71.7	CL						25	75								72.3		FVI	
	7.6	71.7	64.1	SPSM					48	45	7										WSA	
10-8	6.1	90.2	84.1	GP					59	40	1										FVI	
	1.8	84.1	82.3	SM1						85	15										FVI	
	9.5	82.3	72.8	CL							100								73.3		FVI	
	3.0	72.8	69.8	SPSM						90	10										FVI	
	4.0	69.8	65.8	SC2						75	25										FVI	
	2.4	65.8	63.4	CL						30	70										FVI	
	2.8	63.4	60.6	SPSM					24	65	11										WSA	
10-9	10.9	95.9	85.0	GP					59	40	1										FVI	
	17.8	85.0	67.2	CL							100								67.3		FVI	
	0.6	67.2	66.6	GPGM					50	40	10										FVI	
10-10	12.2	96.4	84.2	GP					59	40	1										FVI	
	4.3	84.2	79.9	CL							100										FVI	
	4.2	79.9	75.7	SC2					20	55	25										FVI	
	1.6	75.7	74.1	GPGM					50	45	5										FVI	
	0.6	74.1	73.5	SP						98	2										FVI	
	4.5	73.5	69.0	GPGM					52	38	10										WSA	
	2.2	69.0	66.8	SPSM						90	10										WSA	
	3.0	66.8	63.8	SC3						70	30										FVI	

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: **Strong Pit** Contract Area: **7** Equipment Type: **Becker/Sonic**

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation(m)	Soil Classification	Gradation of Materials							Soundness Indicator						Density	Absorption		Watertable (m)	Remarks
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.	MgSO4			C (%)	F (%)		
												A (%)	B (%)			C (%)	F (%)					
10-14	4.6	91.5	86.9		Dumped fill, GM4, CL,ML, ETC																FVI	
	0.6	86.9	86.3	GPGM					55	40	5										FVI	
	3.3	86.3	83.0	CL						10	90										FVI	
	4.3	83.0	78.7	SM4						58	42										WSA, M-F SAND	
	1.8	78.7	76.9	SM2					13	66	21										WSA	
	0.3	76.9	76.6	CL						10	90										FVI	
	2.8	76.6	73.8	SM1					30	55	15										WSA	
	2.1	73.8	71.7	CL						10	90								70.2		FVI	
	0.3	71.7	71.4	GC3					50	20	30										FVI	
	1.2	71.4	70.2	CL						35	65										FVI	
	2.1	70.2	68.1	SP					5	94	1										FVI	
10-15	2.4	91.0	88.6		DUMPED FILL- ML,CL,ORGANICS,ETC																	FVI
	0.6	88.6	88.0	GP					59	40	1										FVI	
	2.2	88.0	85.8	SM3						70	30										FVI	
	5.2	85.8	80.6	CL							100										FVI	
	1.5	80.6	79.1	SM3						70	30										FVI	
	3.3	79.1	75.8	SPSM					34	59	7								74		WSA	
	1.6	75.8	74.2	GM1					50	35	15										FVI	
	2.4	74.2	71.8	SP					23	73	4										WSA	
	3.1	71.8	68.7	SC2					15	65	20										FVI	
	1.5	68.7	67.2	SP					10	89	1										FVI, M-C SAND	
	2.7	67.2	64.5	CL						25	75										FVI	
	3.1	64.5	61.4	SM2						79	21										WSA	

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: **Strong Pit** Contract Area: **7** Equipment Type: **Becker/Sonic**

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation(m)	Soil Classification	Gradation of Materials							Soundness Indicator						Density	Absorption		Watertable (m)	Remarks	
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.	MgSO4			C (%)	F (%)			
												A (%)	B (%)			C (%)	F (%)						
10-16	6.1	92.2	86.1	GP					59	40	1												FVI
	4.8	86.1	81.3	GC2					40	35	25												FVI
	1.3	81.3	80.0	ML/CL						30	70												FVI
	2.7	80.0	77.3	SM3					2	63	35												WSA,M-F SAND
	5.2	77.3	72.1	GPGM					52	42	6										74.4		WSA
	0.9	72.1	71.2	SP					10	89	1												FVI, M-C SAND
	5.8	71.2	65.4	CL					5	5	90												FVI
	1.5	65.4	63.9	SP					4	95	1												FVI, M-C SAND
10-17	0.3	90.9	90.6		DUMPED FILL- ML,ORGANICS, ETC																		FVI
	2.1	90.6	88.5	GP					58	40	2												FVI
	3.1	88.5	85.4	ML					5	10	85												FVI
	2.7	85.4	82.7	CL					1	1	98												FVI
	3.7	82.7	79.0	SM4					15	45	40												FVI
	1.5	79.0	77.5	ML					20	30	50												FVI
	1.2	77.5	76.3	SC3					15	55	30												FVI
	2.2	76.3	74.1	SPSM					33	58	9												WSA
	4.5	74.1	69.6	CL					5	10	85												FVI
	8.3	69.6	61.3	SM1						83	17										65.7		WSA
10-18	0.6	88.7	88.1	ML					20	20	60												FVI
	0.3	88.1	87.8	GPGM					60	35	5												FVI
	5.2	87.8	82.6	CL							100												FVI
	4.3	82.6	78.3	SM3					15	55	30												FVI

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: **Strong Pit**

Contract Area: **7**

Equipment Type: **Becker/Sonic**

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials						Soundness Indicator				Density	Absorption		Watertable (m)	Remarks			
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		MgSO4				C (%)	F (%)	
												A (%)	B (%)	C (%)		F (%)	C (%)					F (%)
	1.8	78.3	76.5	SC2					15	60	25									FVI		
	5.2	76.5	71.3	SPSM					38	50	12								73.8	WSA		
	2.7	71.3	68.6	SC3					5	65	30									FVI		
10-19	0.6	88.7	88.1	OL						20	80									FVI, ORGANICS		
	0.3	88.1	87.8	GPGM					55	40	5									FVI		
	2.5	87.8	85.3	CL							100									FVI		
	2.4	85.3	82.9	SM2					20	55	25									FVI		
	9.4	82.9	73.5	SPSM					37	51	12								73.3	WSA		
	7.1	73.5	66.4	SPSM						90	10									WSA, F-M SAND		
10-20	0.3	97.0	96.7	SM2					20	60	20									FVI		
	12.5	96.7	84.2	GP					56	40	4									FVI, MINOR LENSES OF SAND		
	7.6	84.2	76.6	CL						20	80									FVI		
	3.4	76.6	73.2	ML					4	36	60								73.7	WSA		
	6.7	73.2	66.5	GPGM					53	40	7									WSA		
10-21	8.5	99.5	91.0	GP					59	40	1									FVI		
	7.4	91.0	83.6	CL							100									FVI		
	2.4	83.6	81.2	SM2					15	60	25									FVI		
	6.1	81.2	75.1	SPSM					20	68	12									WSA		
	5.8	75.1	69.3	SPSM						95	5									WSA		
10-22	1.2	88.3	87.1	GP					59	40	1									FVI		
	11.6	87.1	75.5	CL							100								75.9	FVI		

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Strong Pit

Contract Area: 7

Equipment Type: Becker/Sonic

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation(m)	Soil Classification	Gradation of Materials						Soundness Indicator				Density	Absorption		Watertable (m)	Remarks			
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		MgSO4				C (%)	F (%)	
												A (%)	B (%)	C (%)		F (%)	C (%)					F (%)
	5.5	75.5	70.0	SC3					5	65	30									FVI		
	0.9	70.0	69.1	GPGM					50	40	10									FVI		
	0.9	69.1	68.2	CL						30	70									FVI		
	3.4	68.2	64.8	SPSM					38	51	11									WSA, F-M SAND		
10-23	3.0	88.4	85.4	CL							100									FVI		
	4.3	85.4	81.1	SM4					8	52	40									WSA		
	7.9	81.1	73.2	SPSM					38	50	12									WSA		
	4.6	73.2	68.6	SP					6	90	4							72.6		FVI, MED SAND		
	0.6	68.6	68.0	SM2						75	25									FVI		
10-24	9.8	95.4	85.6	GP					59	40	1									FVI		
	1.8	85.6	83.8	SP					10	89	1									FVI, M-C SAND		
	17.1	83.8	66.7	CL						20	80							66.7		FVI		
	0.9	66.7	65.8	GPGM					50	40	10									FVI		
10-25	2.4	87.2	84.8	GP					59	40	1									FVI		
	1.6	84.8	83.2	CL						20	80									FVI		
	1.2	83.2	82.0	SPSM					4	90	6									FVI		
	2.7	82.0	79.3	CL						10	90									FVI		
	2.8	79.3	76.5	SC3					2	67	31									WSA		
	0.9	76.5	75.6	CL						20	80									FVI		
	3.9	75.6	71.7	SPSM					36	57	7									WSA		
	0.7	71.7	71.0	CL						20	80							71.0		FVI		
	1.1	71.0	70.1	SP						96	4									FVI		

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BRX= Bedrock

WSA= Washed Sieve Analysis

LVI= Lab Visual Identification



Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Strong Pit

Contract Area: 7

Equipment Type: Becker/Sonic

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator						Density	Absorption		Watertable (m)	Remarks	
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		Sand Eq.	MgSO4		C (%)	F (%)			
												A (%)	B (%)	C (%)	F (%)		C (%)						F (%)
	5.8	70.1	64.3	GP					53	43	4												WSA
	0.6	64.3	63.7	SP					25	74	1												FVI
10-26	0.3	88.8	88.5	GPGM					55	40	5												FVI
	4.6	88.5	83.9	CL						20	80												FVI
	0.3	83.9	83.6	SC2					5	75	20												FVI
	0.3	83.6	83.3	SP					29	70	1												FVI
	1.5	83.3	81.8	SP					4	95	1												FVI
	5.2	81.8	76.6	SPSM					42	50	8												WSA
	2.1	76.6	74.5	CL						25	75											74.5	FVI
	5.5	74.5	69.0	SC1						82	18												WSA
	1.8	69.0	67.2	SPSM						90	10												FVI
10-27	3.0	89.1	86.1	GP					54	45	1												FVI
	3.1	86.1	83.0	CL						20	80												FVI
	1.5	83.0	81.5	GM1					52	36	12												WSA
	0.6	81.5	80.9	GC4					40	20	40												FVI
	1.2	80.9	79.7	GPGM					51	38	11												WSA
	2.2	79.7	77.5	GPGM					54	40	6											77.5	WSA
	3.3	77.5	74.2	CL						10	90												FVI
	2.4	74.2	71.8	SPSM						90	10												FVI
10-28	9.1	97.7	88.6	GP					59	40	1												FVI
	1.8	88.6	86.8	CL							100												FVI
	1.3	86.8	85.5	SM2						80	20												FVI, FINE SAND

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Strong Pit

Contract Area: 7

Equipment Type: Becker/Sonic

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials						Soundness Indicator						Density	Absorption		Watertable (m)	Remarks		
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		Sand Eq.		MgSO4				C (%)	F (%)
												A (%)	B (%)	C (%)	F (%)			C (%)	F (%)				
	3.0	85.5	82.5	CL					40	60											FVI		
	3.1	82.5	79.4	GPGM					54	35	11			22								WSA	
	5.5	79.4	73.9	SPSM					28	61	11											WSA	
	1.2	73.9	72.7	SP					4	95	1											FVI	
	0.6	72.7	72.1	CL						20	80									72.1		FVI	
	4.0	72.1	68.1	SPSM						90	10											FVI	
10-29	4.9	91.6	86.7	GP					59	40	1											FVI	
	0.6	86.7	86.1	GC1					50	35	15											FVI	
	5.4	86.1	80.7	SP					44	55	1											FVI	
	8.9	80.7	71.8	CL						10	90											FVI	
	2.1	71.8	69.7	GP					52	45	3											WSA	
	7.7	69.7	62.0	CL						10	90											FVI	
10-30	0.6	86.9	86.3	GP					59	40	1											FVI	
	2.4	86.3	83.9	SC4						60	40											FVI	
	3.4	83.9	80.5	CL							100											FVI	
	3.0	80.5	77.5	SM3					11	51	38											WSA	
	3.7	77.5	73.8	SPSM					40	53	7											WSA	
	0.3	73.8	73.5	SPSM					14	80	6											FVI	
	0.3	73.5	73.2	SC4						60	40									73.5		FVI	
	4.3	73.2	68.9	SC1					10	78	12											WSA	
	2.4	68.9	66.5	CL							100											FVI	
10-31	9.4	98.4	89.0	ML/CL																		FVI, FILL WITH ORGANICS	

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Strong Pit

Contract Area: 7

Equipment Type: Becker/Sonic

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials						Soundness Indicator						Density	Absorption		Watertable (m)	Remarks		
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		Sand Eq.		MgSO4				C (%)	F (%)
												A (%)	B (%)	C (%)	F (%)			C (%)	F (%)				
	1.5	89.0	87.5	GPGM					54	40	6											FVI	
	9.5	87.5	78.0	CL						20	80											FVI	
	4.0	78.0	74.0	SPSM					34	55	11											WSA	
	1.5	74.0	72.5	SP						97	3											FVI	
	0.9	72.5	71.6	GPGM					48	42	10											WSA	
	1.5	71.6	70.1	GP					58	40	2											FVI	
	3.1	70.1	67.0	CL							100									71		FVI	
	4.3	67.0	62.7	SP					7	90	3											FVI	
10-32	3.7	93.3	89.6	GP					59	40	1											FVI	
	2.7	89.6	86.9	CL							100											FVI	
	3.7	86.9	83.2	SC3					5	65	30											FVI	
	0.6	83.2	82.6	GP					59	40	1											FVI	
	1.2	82.6	81.4	SC1					40	48	12											WSA	
	9.4	81.4	72.0	SC1					29	59	12		5	13								WSA	
	2.5	72.0	69.5	SPSM					8	81	11											WSA	
	1.2	69.5	68.3	CL							100									68.3		FVI	
	1.8	68.3	66.5	SP					9	90	1											FVI, M-C SAND	
10-33	0.6	98.0	97.4	ML					10	25	65											FVI	
	10.4	97.4	87.0	GP					57	39	4									87.0		WSA, SLIGHT SEEPAGE	
	1.5	87.0	85.5	CL					5	20	75											FVI	
	1.2	85.5	84.3	ML						20	80											FVI	
	0.9	84.3	83.4	SM2						80	20											FVI	
	2.5	83.4	80.9	GP					58	40	2											FVI	

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WSA= Washed Sieve Analysis

LVI= Lab Visual Identification



Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: **Strong Pit** Contract Area: **7** Equipment Type: **Becker/Sonic**

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials						Soundness Indicator						Density	Absorption		Watertable (m)	Remarks	
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.	MgSO4		C (%)	F (%)			
												A (%)	B (%)			C (%)						F (%)
	0.2	77.8	77.6	PT																	FVI, ORGANICS	
	1.8	77.6	75.8	SPSM					20	73	7											FVI
	2.4	75.8	73.4	SM3					4	60	36											WSA
	1.5	73.4	71.9	SM4						60	40											FVI
	0.7	71.9	71.2	CL						20	80											FVI
	0.9	71.2	70.3	GPGM					50	40	10											FVI
10-42	0.3	88.6	88.3	TS																		FVI, ORGANICS
	0.6	88.3	87.7	SPSM					13	80	7											FVI
	4.6	87.7	83.1	GP					49	47	4											WSA
	1.8	83.1	81.3	CL						10	90											FVI
	2.2	81.3	79.1	GPGC					46	44	10				33							WSA
	0.3	79.1	78.8	CL						10	90											FVI
	5.4	78.8	73.4	SP					14	83	3									74.0		WSA
	4.9	73.4	68.5	GP					65	31	4											WSA
10-43	0.6	93.7	93.1	ML					5	25	70											FVI
	1.5	93.1	91.6	GP					54	45	1											FVI
	0.6	91.6	91.0	SPSM						95	5											FVI
	8.9	91.0	82.1	CL						10	90											FVI
	1.8	82.1	80.3	SM1					2	83	15											WSA
	0.6	80.3	79.7	ML					5	30	65											FVI
	4.3	79.7	75.4	SP					36	61	3											WSA
10-44	0.6	89.1	88.5	ASPH																		FVI, ASPHALT

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Strong Pit

Contract Area: 7

Equipment Type: Becker/Sonic

Test Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials						Soundness Indicator						Density	Absorption		Watertable (m)	Remarks		
					75/150mm	150/225	+ 225mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval		MgSO4		C (%)	F (%)				
												A (%)	B (%)	C (%)	F (%)	C (%)						F (%)	
	0.3	88.5	88.2	GPGM					56	39	5											FVI	
	2.8	88.2	85.4	ML/CL					10	20	70												FVI
	1.8	85.4	83.6	SM2					5	75	20												FVI, FINE SAND
	7.0	83.6	76.6	SP					45	51	4												WSA
	1.2	76.6	75.4	SP					10	89	1												FVI, M-F SAND
	0.6	75.4	74.8	ML						20	80												FVI
	1.9	74.8	72.9	SM1						85	15												WSA, M-F SAND
	1.5	72.9	71.4	ML						10	90												FVI
	9.7	71.4	61.7	GP					73	24	3												WSA
10-45	1.2	88.7	87.5	ML					20	30	50												FVI, OVERBURDEN
	4.9	87.5	82.6	GM4					40	20	40												FVI, OVERBURDEN
	8.2	82.6	74.4	CL							100												FVI, TRACE ORGANICS
	3.1	74.4	71.3	SC2					20	55	25												FVI
	10.0	71.3	61.3	SP					45	51	4												WSA
10-46	0.3	90.3	90.0	GP					59	40	1												FVI
	2.1	90.0	87.9	ML					10	20	70												FVI
	2.8	87.9	85.1	SPSM					19	71	10												WSA
	1.2	85.1	83.9	SPSM						93	7												FVI
	2.7	83.9	81.2	CL							100												FVI
	8.0	81.2	73.2	SP					49	59	2												WSA
	0.8	73.2	72.4	CL							100												FVI
	1.6	72.4	70.8	SP					4	90	1												FVI, M-C SAND

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