

Testhole:		TH 2020 - 1		Date Drilled:		20-Nov-19		Logged by: Andy Brauer									
Location:		1st Street, approx. 410 m South of Maryland Ave intersection, NBL		Report Date:		23-Jan-20		Drilled by: Paddock Drilling Ltd.									
Depth: from: to:		Comments:		# Lab Sample	# Sample	Sample Depth [ft]	MC [%]	LL [%]	PL [%]	PI [%]	SPT [n]	Coarse Gravel [%]	Fine Gravel [%]	Coarse Sand [%]	Fine Sand [%]	Silt [%]	Clay [%]
0"	3.0"	Asphalt															
3.0"	6.0"	Road Gravel															
6.0"	5.0'	Sand - silty, some clay, trace gravel, black, dry, loose, frost to 1.5', low to intermediate plastic, sample #3.1 contains 6.7% organic matter		20041	1.1	2.0 - 3.0	13.7	33.9	29.7	4.2		2.5	0.6	14.7	43.3	27.9	11.0
				20042	1.2	4.0 - 5.0	27.1						0.0	1.3	10.2	48.9	39.6
5.0'	7.0'	Silt and sand - clayey, some gravel, grey, dry, firm, intermediate plastic		20043	1.3	6.0 - 7.0	23.6	39.1	15.8	23.3		5.7	3.6	7.7	23.2	32.9	26.9
7.0'	10.0'	Silt - clayey, trace sand, brown, moist, soft, low to intermediate plastic		20044	1.4	9.0 - 10.0	32.2	32.9	24.5	8.4		0.0	0.2	1.0	4.3	74.0	20.4
10.0'	15.0'	Silt - clayey, some sand, trace gravel, grey-brown, moist, firm, low to intermediate plastic		20045	1.5	13.0 - 15.0	23.3	30.4	19.3	11.2		0.9	2.1	4.1	10.1	56.4	26.4
End of the hole 15.0', open to 6.0', seepage @ 6.0' immediately after drilling				Naming Convention						Soil classification							
				>35%	Primary Soil					Particle size							
Comments: Filled with cuttings, bentonite plug at surface, cold mix asphalt for patch. Determination of organic matter was done according ASTM D2974				20 - 35%	"clayey", "sandy", etc.					Coarse Gravel		Metric	Imperial				
				10 - 20%	"some silt", etc.					Fine Gravel		+9.5mm		+3/8			
				1 - 10%	"trace gravel", etc.					Coarse Sand		2.0 to 0.4mm		-#10 to +#40			
				LL = Liquid Limit		MC = Moisture Content			Fine Sand		0.4 to 0.075mm		-#40 to +#200				
PL = Plastic Limit		SPT = Standard Penetration Test (ASTM D 1586)			Silt		0.075 to 0.002mm										
PI = Plasticity Index					Clay		< 0.002mm										

Testhole:		TH 2020 - 2		Date Drilled:		20-Nov-19		Logged by: Andy Brauer												
Location:		1st Street, approx. 315 m South of Maryland Ave intersection, SBL		Report Date:		23-Jan-20		Drilled by: Paddock Drilling Ltd.												
Depth:		from: to:		Comments:		# Lab Sample	# Sample	Sample Depth [ft]	MC [%]	LL [%]	PL [%]	PI [%]	SPT [n]	Coarse Gravel [%]	Fine Gravel [%]	Coarse Sand [%]	Fine Sand [%]	Silt [%]	Clay [%]	
0"	3.0"	Asphalt																		
3.0"	6.0"	Road Gravel																		
6.0"	2.0'	Sand - some silt, trace clay, trace gravel, black, dry, loose, frost to 1.5', non plastic, contains 3.8% organic matter		20046	2.1	1.0 - 2.0	13.8						0.0	1.4	24.5	47.4	16.7	9.9		
2.0'	13.0'	Sand - some fines, trace gravel, brown, dry (below 10.0' saturated), loose		20047	2.2	4.0 - 5.0	7.9							0.0	1.0	27.5	53.0	18.5		
				20048	2.3	6.0 - 7.0	7.0								0.0	0.6	18.1	67.6	13.6	
				20049	2.4	8.0 - 9.0	4.1									0.0	0.2	32.6	59.3	7.9
				20050	2.5	11.0 - 12.0	25.6									1.9	7.6	45.9	37.2	7.3
13.0'	15.0'	Gravel - some sand, trace fines, brown, saturated, loose		20051	2.6	13.0 - 15.0	14.8						23.7	48.0	18.0	7.2	3.0			
End of the hole 15.0', open to 9.0', dry immediately after drilling				Naming Convention					Soil classification											
Comments: Filled with cuttings, bentonite plug at surface, cold mix asphalt for patch. Determination of organic matter was done according ASTM D2974				>35%	Primary Soil				Particle size											
				20 - 35%	"clayey", "sandy", etc.						Metric		Imperial							
				10 - 20%	"some silt", etc.				Coarse Gravel		+9.5mm		+3/8							
				1 - 10%	"trace gravel", etc.				Fine Gravel		9.5 to 2.0mm		-3/8 to +#10							
Abbreviations				Coarse Sand					2.0 to 0.4mm		-#10 to +#40									
LL = Liquid Limit				MC = Moisture Content					Fine Sand		0.4 to 0.075mm		-#40 to +#200							
PL = Plastic Limit				SPT = Standard Penetration Test (ASTM D 1586)					Silt		0.075 to 0.002mm									
PI = Plasticity Index									Clay		< 0.002mm									

Testhole:		TH 2020 - 3		Date Drilled:		20-Nov-19		Logged by: Andy Brauer														
Location:		1st Street, approx. 190 m South of Maryland Ave intersection, NBL		Report Date:		23-Jan-20		Drilled by: Paddock Drilling Ltd.														
Depth: from: to:		Comments:		# Lab Sample	# Sample	Sample Depth [ft]	MC [%]	LL [%]	PL [%]	PI [%]	SPT [n]	Coarse Gravel [%]	Fine Gravel [%]	Coarse Sand [%]	Fine Sand [%]	Silt [%]	Clay [%]					
0"	3.0"	Asphalt																				
3.0"	1.0'	Road Gravel																				
1.0'	3.0'	Sand - some silt, some clay, trace gravel, black, dry, loose, frost to 1.5', non plastic, contains 3.8% organic matter		20052	3.1	2.0 - 3.0	13.5					0.0	2.1	25.9	43.9	18.1	10.0					
3.0'	13.5'	Sand - gravelly, some fines, brown, dry (below 12.0' saturated), loose		20053	3.2	4.0 - 5.0	5.7						19.5	15.6	29.4	25.4	10.0					
				20054	3.3	6.0 - 7.0	7.7							9.2	12.2	35.3	22.7	20.6				
				20055	3.4	9.0 - 10.0	4.2								5.1	15.7	43.0	27.6	8.6			
				20056	3.5	10.0 - 11.0	12.4															
				20057	3.6	11.5 - 12.5	19.1									5.7	17.5	44.6	23.1	9.2		
13.5'	15.0'	Silt - some clay, trace sand, trace gravel, brown, dry, firm, intermediate plastic		20058	3.7	14.0 - 15.0	32.3	34.2	27.2	7.0		0.4	1.0	5.1	3.4	72.6	17.5					
End of the hole 15.0', open to 12.0', dry immediately after drilling				Naming Convention						Soil classification												
Comments: Filled with cuttings, bentonite plug at surface, cold mix asphalt for patch. Determination of organic matter was done according ASTM D2974				>35%	Primary Soil						Particle size											
				20 - 35%	"clayey", "sandy", etc.						Metric				Imperial							
				10 - 20%	"some silt", etc.						Coarse Gravel				+9.5mm				+3/8			
				1 - 10%	"trace gravel", etc.						Fine Gravel				9.5 to 2.0mm				-3/8 to +#10			
Abbreviations										Coarse Sand				2.0 to 0.4mm				-#10 to +#40				
LL = Liquid Limit				MC = Moisture Content						Fine Sand				0.4 to 0.075mm				-#40 to +#200				
PL = Plastic Limit				SPT = Standard Penetration Test (ASTM D 1586)						Silt				0.075 to 0.002mm								
PI = Plasticity Index										Clay				< 0.002mm								

Testhole:		TH 2020 - 4			Date Drilled:	20-Nov-19			Logged by: Andy Brauer									
Location:		1st Street, approx. 20 m South of Maryland Ave intersection, SBL			Report Date:	23-Jan-20			Drilled by: Paddock Drilling Ltd.									
		UTM Coordinates:			N: 5519014			E: 432449			ELEV: 393.3							
Depth:	from: to:	Comments:			# Lab Sample	# Sample	Sample Depth [ft]	MC [%]	LL [%]	PL [%]	PI [%]	SPT [n]	Coarse Gravel [%]	Fine Gravel [%]	Coarse Sand [%]	Fine Sand [%]	Silt [%]	Clay [%]
0"	3.0"	Asphalt																
3.0"	1.0'	Road Gravel																
1.0'	5.0'	Sand - some silt, some clay, trace gravel, brown, dry, loose, frost to 1.5', non plastic, sample #4.2 contains 5.3% organic matter			20059	4.1	1.0 - 2.0	10.9					0.0	1.1	12.7	58.1	14.9	13.4
					20060	4.2	4.0 - 5.0	18.4					9.7	7.3	16.4	36.5	19.2	10.9
5.0'	10.0'	Gravel and sand - trace fines, brown, dry, loose			20061	4.3	6.0 - 7.0	5.6					15.8	35.4	33.0	8.4	7.5	
10.0'	15.0'	Silt- sandy, some gravel, some clay, brown, dry (below 13.0' saturated), loose, low to intermediate plastic			20062	4.4	12.0 - 13.0	21.1	32.1	22.2	9.9		7.3	17.9	11.6	10.2	38.5	14.5
					20063	4.5	13.0 - 14.0	24.2					5.9	5.4	3.9	26.7	48.3	9.9
End of the hole 15.0', open to 11.0', dry immediately after drilling					Naming Convention					Soil classification								
					>35%	Primary Soil				Particle size								
Comments: Filled with cuttings, bentonite plug at surface, cold mix asphalt for patch. Determination of organic matter was done according ASTM D2974					20 - 35%	"clayey", "sandy", etc.				Metric		Imperial						
					10 - 20%	"some silt", etc.				Coarse Gravel		+9.5mm		+3/8				
					1 - 10%	"trace gravel", etc.				Fine Gravel		9.5 to 2.0mm		-3/8 to +#10				
Abbreviations					Coarse Sand		2.0 to 0.4mm		-#10 to +#40									
LL = Liquid Limit					MC = Moisture Content		Fine Sand		0.4 to 0.075mm		-#40 to +#200							
PL = Plastic Limit					SPT = Standard Penetration Test (ASTM D 1586)		Silt		0.075 to 0.002mm									
PI = Plasticity Index							Clay		< 0.002mm									