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PEI National Park  
Paving Upgrades -  
Various Locations A  
Project No. R.074934.001

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Appendix A

August 2015

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Borehole Logs





## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152  
**Client:** CBCL Limited  
**Location:** Grahams Lane Cavendish - Paved Parking Lot  
**Water Level:** Not observed

**BH - 03**  
**Page:** 1 of 1  
**Date Drilled:** June 3, 2015  
**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0							ASPHALT (100 mm thick)	0.0										
0		-	-	-	-		Loose to compact reddish brown silty SAND to silty SAND with gravel	-0.1										
1		SS	1	7	380				□									
2																		
3		SS	2	15	300				□									
4																		
5		SS	3	16	430				□									
6																		
7							End of borehole	-1.9										
8																		

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152 **BH - 04**  
**Client:** CBCL Limited **Page: 1 of 1**  
**Location:** Grahams Lane Cavendish - End of roadway **Date Drilled:** June 3, 2015  
**Water Level:** Not observed **Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0		-	-	-	-		Asphalt (110 mm thick)	0.0										
-0.1							Loose to compact reddish brown silty SAND with gravel	-0.1										
1		SS	1	11	200													
2																		
3		SS	2	20	430													
4																		
5		SS	3	6	230													
6																		
-1.9							End of borehole	-1.9										
2																		
7																		
8																		

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152  
**Client:** CBCL Limited  
**Location:** Grahams Lane Cavendish - Grahams Lane  
**Water Level:** Not observed

**BH - 05**  
**Page:** 1 of 1  
**Date Drilled:** June 3, 2015  
**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —○—  WL				
									5	15	25	35	45	5	15	25	35	45
0							ASPHALT (130 mm thick)	0.0										
		-	-	-	-			-0.1										
1							Compact reddish brown silty SAND with gravel											
		SS	1	16	450				□					○	—			
2																		
		SS	2	13	400				□									
3																		
		SS	3	12	400				□									
4																		
5																		
6																		
7																		
8																		
							End of borehole	-1.9										

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152  
**Client:** CBCL Limited  
**Location:** Grahams Lane Cavendish - Grahams Lane  
**Water Level:** Not observed

**BH - 06**  
**Page:** 1 of 1  
**Date Drilled:** June 3, 2015  
**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0		-	-	-	-		ASPHALT (150 mm thick)	0.0										
-0.2							Loose reddish brown silty SAND with gravel	-0.2										
1		SS	1	8	180													
2																		
3		SS	2	13	600		Compact reddish brown silty SAND	-0.8										
4																		
5		SS	3	19	600													
6																		
7							End of borehole	-2.0										
8																		

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152  
**Client:** CBCL Limited  
**Location:** Grahams Lane Cavendish - Grahams Lane  
**Water Level:** Not observed

**BH - 07**  
**Page:** 1 of 1  
**Date Drilled:** June 3, 2015  
**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0 ft m 0							ASPHALT (60 mm thick)	0.0										
		-	-	-	-		Compact to dense reddish brown silty SAND with gravel	-0.1										
1		SS	1	19	300													
2																		
3		SS	2	12	550													
4																		
5		SS	3	34	400													
6																		
7																		
8							End of borehole	-1.9										

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152  
**Client:** CBCL Limited  
**Location:** Cavendish Grove Roadway  
**Water Level:** Not observed

**BH - 08**  
**Page:** 1 of 1  
**Date Drilled:** June 3, 2015  
**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0		-	-	-	-		Asphalt (130 mm thick)	0.0										
-0.1							Compact to dense reddish brown silty SAND with gravel (particles of sandstone)	-0.1										
1		SS	1	16	480													
2																		
3		SS	2	26	180													
4							- less gravel from 0.75 to 1.35 m											
5																		
6		SS	3	21	500													
7																		
8							End of borehole	-2.0										



## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152 **BH - 10**  
**Client:** CBCL Limited **Page: 1 of 1**  
**Location:** Green Gables - Upper Level Parking/Exit Lane Area **Date Drilled:** June 3, 2015  
**Water Level:** Not observed **Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0		-	-	-	-		ASPHALT (140 mm thick)	0.0										
-0.1							Grayish brown crushed sand and gravel: FILL	-0.1										
-0.4		SS	1	17	450		Compact reddish brown silty SAND with gravel	-0.4			□							
1		SS	2	26	180						□							
2		SS	3	20	480						□							
-2.0							End of borehole	-2.0										

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152 **BH - 11**  
**Client:** CBCL Limited **Page: 1 of 1**  
**Location:** Green Gables Access Road - Upper end of Parking **Date Drilled:** June 3, 2015  
**Water Level:** Not observed **Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0		-	-	-	-		ASPHALT (130 mm thick)	0.0										
-0.1							Compact reddish brown silty SAND	-0.1										
1		SS	1	17	250													
2																		
3		SS	2	14	430													
4																		
5		SS	3	18	330													
6																		
7																		
8							End of borehole	-2.0										



Geotechnical and Materials Engineers

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park

**Project No.:** 034-152

**Client:** CBCL Limited

**Location:** Green Gables Access Road

**Water Level:** Not observed

**BH -** 12

**Page:** 1 of 1

**Date Drilled:** June 3, 2015

**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —○—  WL				
									5	15	25	35	45	5	15	25	35	45
0		-	-	-	-		ASPHALT (110 mm thick)	0.0										
							Loose to compact reddish brown silty SAND	-0.1										
1		SS	1	8	480				□					○	—			
2																		
3		SS	2	23	500					□								
4																		
5		SS	3	17	450				□									
6																		
7							End of borehole	-2.0										
8																		

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152  
**Client:** CBCL Limited  
**Location:** Green Gables Access Road  
**Water Level:** Not observed

**BH - 13**  
**Page:** 1 of 1  
**Date Drilled:** June 3, 2015  
**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0							ASPHALT (130 mm thick)	0.0										
		-	-	-	-		Black sand and gravel: FILL	-0.1										
							Loose to compact reddish brown silty SAND with gravel	-0.2										
1		SS	1	7	400				□									
2																		
3		SS	2	15	400					□								
4																		
5																		
6		SS	3	21	150					□								
7																		
8							End of borehole	-2.0										
							Location: Near Entrance to the Site											







Geotechnical and Materials Engineers

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park

**Project No.:** 034-152

**Client:** CBCL Limited

**Location:** Brackley Beach - Gravel Parking Area

**Water Level:** 1.2 m on June 4, 2015

**BH -** 16

**Page:** 1 of 1

**Date Drilled:** June 4, 2015

**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0								0.0										
1		SS	1	14	150	□	Loose to compact reddish brown silty SAND with gravel (particles of sandstone)											
2																		
3		SS	2	5	330	□												
4	▼							-1.2										
5		SS	3	11	430	□	Compact brown SAND											
6								-1.8										
7							End of borehole											
8																		

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152  
**Client:** CBCL Limited  
**Location:** Brackley Beach - Access Road  
**Water Level:** 1.8 m on June 4, 2015

**BH - 17**  
**Page:** 1 of 1  
**Date Drilled:** June 4, 2015  
**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0						■	ASPHALT (60 mm thick)	0.0										
0		-	-	-	-	■	Loose to compact reddish brown silty SAND with gravel (particles of sandstone)	-0.1										
1		SS	1	7	330	■			□									
2						■												
3		SS	2	22	450	■				□								
4						■												
5		SS	3	21	280	■				□								
6	▼					■	Compact brown SAND	-1.8										
6						■	End of borehole	-1.9										
7						■												
8						■												

## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152  
**Client:** CBCL Limited  
**Location:** Bayshore Road - Near Gatehouse  
**Water Level:** Not observed

**BH - 18**  
**Page:** 1 of 1  
**Date Drilled:** June 4, 2015  
**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0							ASPHALT (80 mm thick)	0.0										
		-	-	-	-		Compact reddish brown silty SAND with gravel (particles of sandstone)	-0.1										
1		SS	1	10	130				□									
2																		
3		SS	2	10	250				□									
4																		
5		SS	3	11	600				□									
6							- 0.1 m black sand with silt at 1.5 m											
7							End of borehole	-1.9										
8																		



# BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152 **BH - 19**  
**Client:** CBCL Limited **Page: 1 of 1**  
**Location:** MacMillan Lane - 6.1 m West of Civic No.20 **Date Drilled:** June 4, 2015  
**Water Level:** Not observed **Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0		-	-	-	-		ASPHALT (50 mm thick)	0.0										
							Loose to compact reddish brown silty SAND	-0.1										
1		SS	1	9	430				□									
2																		
3		SS	2	9	500				□									
4																		
5		SS	3	16	450				□									
6																		
7							End of borehole	-1.9										
8																		





## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152  
**Client:** CBCL Limited  
**Location:** Fort Amherst - on Roadway  
**Water Level:** Not observed

**BH - 22**  
**Page:** 1 of 1  
**Date Drilled:** June 4, 2015  
**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0		-	-	-	-	■	ASPHALT (40 mm thick)	0.0										
						■	Compact reddish brown silty GRAVEL with sand	-0.2										
1		SS	1	12	500	■	Loose to compact reddish brown silty SAND with gravel (particles of sandstone)											
2						■												
3		SS	2	8	400	■												
4						■												
5		SS	3	18	530	■												
6						■												
7						■	End of borehole	-1.9										
8						■	Location: on Roadway near turn before entrance to gravel parking lot											



## BOREHOLE RECORD

**Project Name:** Geotechnical Investigation and Pavement Evaluation - PEI National Park  
**Project No.:** 034-152  
**Client:** CBCL Limited  
**Location:** Fort Amherst Access Road  
**Water Level:** Not observed

**BH - 24**  
**Page:** 1 of 1  
**Date Drilled:** June 4, 2015  
**Datum:** N/A

Depth (m)	Water Level (m)	Sample Type	Sample Number	N Value or RQD %	Recovery (mm)	Symbols	SOIL AND/OR ROCK DESCRIPTION	Depth (m)	SPT (N) Blows/300mm					Moisture Content (%) Wp  —O—  WL				
									5	15	25	35	45	5	15	25	35	45
0 ft 0 m 0  1  2  3 1  4  5  6  7 2  8							ASPHALT (50 mm thick) Compact to dense reddish brown to light brown silty SAND with gravel (particles of sandstone)	0.0 -0.1										
		SS	1	10	480		- less gravel at 1.1 m											
		SS	2	22	380													
		SS	3	36	450													
							End of borehole	-1.9										