FUNDY Engineering

506-848-1/99

19 July 2005

David Peacock Meridian Construction and Development 209 Black River Road Saint John, N.B. E2L 3V9

RE: Geotechnical Investigation - Ashburn Lake Road Saint John, N.B.

Dear Mr. Peacock:

Further to the your request, Fundy Engineering & Consulting Ltd. (Fundy Engineering) was retained to carry out a borehole program to identify the underlying soils and depth to bedrock in the Ashburn Lake Road area. The borehole program was carried out under the supervision of Gordon Mouland, M.Eng., Alex Mouland, EIT and Andrew MacVey EIT of Fundy Engineering on June 21, 2005. The boreholes were performed by Lantech using a track mounted drill.

The investigation was carried out after a review of the plan as supplied by Meridian Construction and Development, and a request for information regarding buried services in the areas to be excavated.

Eight boreholes were put down, to determine the nature of the underlying soils and depth to bedrock. Borehole logs, and location plan are appended to this letter report. In general the soil underlying the above mentioned site can be characterized as Very Soft Clayey Silt over Organic Black Peat over Bedrock. The depth to bedrock at this site ranged from 11 feet to 129 feet.

I trust the above is sufficient for your present purposes. Should you have any questions or require additional information please contact Alex Mouland, or the undersigned at your convenience.

JEERING & CONSULTING LTD.

506-848-1/99

Alex Mouland, EIT

Borehole Number: 1

Project: Bedrock Depth

Client: Meridian Construction & Development Drill Date: June 21, 2005

Site Location: Asburn Lake Road

Engineer: Gordon Mouland

ENGINEERING

								Variable Market	
	7	SUBSURFACE PROFILE		_	SAN	IPLE			SPT/Molsture Content
Depth (ft)		Description	Symbol	Number	Type	N value/ROD	Recovery	Water Level	N-Value/% 10 20 30 40 50 60 70 30 90 Shear Vane Test MPa 1 2 3 4
0-	0.00					Comme			
2 3 4 5	-5 00	- ary warr warr wrogish blown olayey only							
5-8-9-8-9-8-9-8-9-8-9-8-9-8-9-8-9-8-9-8-		Very Soft to Soft Grey Clayey Silt		1	\$\$	1	14"		
10 11 12 1	A			2	SS	3	12"		
14 15 16 16 16 16 16 16 16 16 16 16 16 16 16		Black Peat Seams		3	SS	2	4"		
17 18 19 19 20 19									
21 = 22 = 23	-24.00	Organic Material		4	SS	1	8"		
25 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20		don black Organic Peat .		5	SS	2	10"		
31 - 32 - 33 - 34 - 34 - 34 - 34 - 34 - 34	35.00	Soft to Firm Brown Silty Sand and Gravel		5	3\$	5	6"		
5寸	36.00	Shale Bedrock		7 8	iS 1	00	-	The state of the s	
18 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10		End of Borehole							
D	rilled E	ly: Lantech Drilling Services Date	tum: A	\\$\$UI	med				Sheet: 1 of 1

Borehole Number: 2

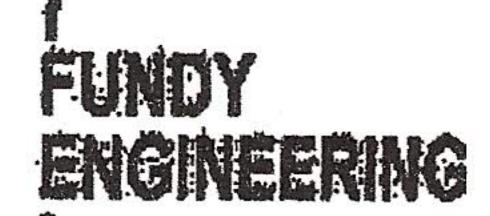
Project: Bedrock Depth

Client: Meridian Construction & Development Drill Date: June 21, 2005

Site Location: Ashburn Lake Road

Drilled By: Lantech Drilling Services

Engineer: Gordon Mouland



-10.00	Description Ground Surface Very Soft Dark Greyish Brown Clayey Sifty (Augered to 10 feet) Very Soft Greyish Brown Clayey Sift With Organics Very Soft to Soft Reddish Brown Silt With	Symbol	Number 1		o N Value/ROD IT	Recovery	Water Level		20	30	N-Val 40 5	o 60 ane Te	70	_	
-25.00	Ground Surface Very Soft Dark Greyish Brown Clayey Sifty (Augered to 10 feet) Very Soft Greyish Brown Clayey Sift With Organics	Symbol	Number 1	SS	y value/RC	ABCO.	Lev		2.2	30	N-Val 40 5 ear Va	ue/% 0 60 ane Te	70	_	
-10.00	Very Soft Dark Greyish Brown Clayey Sifty (Augered to 10 feet) Very Soft Greyish Brown Clayey Sift With Organics		1	SS	0	14"									
-10.00	Very Soft Dark Greyish Brown Clayey Sifty (Augered to 10 feet) Very Soft Greyish Brown Clayey Sift With Organics		1		0										
-25.00	Organics		2		0			THE PARTY AND THE PARTY OF THE		NOTION OF PRINCIPAL SECTION ASSESSMENT			- Andread State (State Control of State		
		4		Mention	-	24"									
	THE CONTRACT OF THE PARTY WAS A CONTRACT OF THE CONTRACT OF TH	-44	3	\$5 55	0	24" 47°									
-40.00	Organics		5	SS	4	24" 24"			Make Comment production absended to comment of the production of the comment of t					The Holy of the first of the fi	
The second name of the second name of	Black Silt With Organics	I	7	3 S	6	20"									
82.50	Drove pencone to Bedrock Refusal @ 82.5 leet.														

Datum: Assumed

Borehole Number: 3

Project: Bedrock Depth

Client: Meridian Construction & Development Drill Date: June 21, 2005

Site Location: Ashbum Lake Road

Drilled By: Lantech Drilling Services

Engineer: Gordon Mouland

FUNDY ENGINEERING

اروراندان مردورات								ansandele (1989)	
	······································	SUBSURFACE PROFILE			SAN	IPLE			SPT/Moisture Content
nebtu (III)	Elevation	Description	Symbol	Number	Type	N value/RQD	Recovery	Water Level	N-Value/% 10 20 30 40 50 60 70 80 90 Shear Vane Test MPa 1 2 3 4
-	0.00	Ground Surface	+			dia	Lales.		
	10.00	Very Soft Dark Brown Peat Over Soft Grey Clayey Sift (Augered to 10 feet)							
		Very Soft Greyish Clayey Silt With Organics		2	SS SS	0 0	6" 24"		
	25.00	Very Soft to Soft Grey With Trace of Reddish Brown Silt With Organics		4	SS		24"		
-4	10.00	Black Silt With Organics			SS SS	6	24"		
		Drove pencone to Bedrock Refusal @ 95 faet.					20°		
<u>-95</u>	.00	End of Borehole			der Technologie de la company				

Datum: Assumed

Borehole Number: 4

Project: Bedrock Depth

Client: Meridian Construction & Development Drill Date: June 22, 2005

Site Location: Ashburn Lake Road

Drilled By: Lantech Drilling Services

Engineer: Gordon Mouland

FUNDY ENGINEERING

es qu		SUBSURFACE PROFILE			SAN	IPLE			SPT/Moisture Content
	Elevation	Description	Symbol	Number	Type	Nvalue/ROD	Recovery	Water Level	N-Value/% 10 20 30 40 50 60 70 80 90 Shear Vane Test MPa 1 2 3 4
工	0.00	Ground Surface	and the second of the second						
	6.00	Pushed Pencone to 76 feet in depth.							
	9.00	Hammered Pencone to Bedrock Refusal at 129 feet.							
12:	9.00	End of Borehole	-			Militaria	-		

Datum: Assumed

Borehole Number: 5

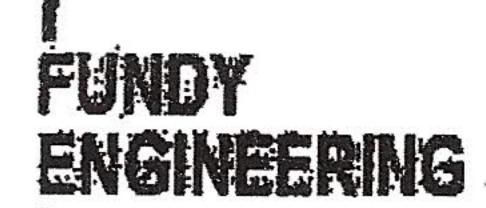
Project: Bedrock Depth

Client: Meridian Construction & Development Drill Date: June 23, 2005

Site Location: Ashburn Lake Road

Drilled By: Lantech Drilling Services

Engineer: Gordon Mouland



		SUBSURFACE PROFILE			SAN	IPLE			SPT/Moisture Content
Ant Indo	Elevation	Description	Symbol	Number	Type	N value/ROD	Récovery	Water Level	N-Value/% 10 20 30 40 50 60 70 80 9 Shear Vane Test MPa 1 2 3 4
	0.00	Ground Surface					***		
		Loose Grey Silt With Organics		1 2 3	SS SS SS SS	Q 0			
-4	2.00			7	SS	1			
-70	0.00	Pushed Pencone to 70 feet. Hammered Pencone to Redrock Defined							
-99	.00	Hammered Pencone to Bedrock Refusal.							
		End of Borehole	- Contraction of the Contraction		I	MANAGEMENT .		POST	

Datum: Assumed

Borehole Number: 6

Project: Bedrock Depth

Client: Meridian Construction & Development Drill Date: June 22, 2005

Site Location: Ashbum Lake Road

Drilled By: Lantech Drilling Services

Engineer: Gordon Mouland

FUNDY ENGINEERING

Description The part of the p		- 4na	Conf	ture	/Moi	SPT					LE	SAM			SUBSURFACE PROFILE		
Description The part of the p			%	/alue/	N-1	102 10		10	9		Q						
75.00 Ground Surface Pushed Pencone to 76 feet in depth. 75.00 Hammered Pencone to Bedrock Refusal at 129 feet.			<u></u>			SI					We/R		ь	9	Description	ation	金
75.00 Hammered Pencone to Bedrock Refusal at 129 feet.		4	3	MPa	2		1	10	Mate	3eco	-	ype	E E	TE,			Dept
-76.00 Hammered Pencone to Bedrock Refusel at	Madaman and pro-) 		}										Ground Surface		
															Pushed Pencone to 76 feet in depth.		
																70 00	
															Hammered Pencone to Bedrock Refusal at	76.00	
-129.00																9.00	Contract and or or other transfer or other trans
End of Borehole				Address les entre e					And the second second		T	didentary difficulty			End of Borehole		23

Datum: Assumed

Borehole Number: 7

Project: Bedrock Depth

Client: Meridian Construction & Development Drill Date: June 23, 2005

Site Location: Ashburn Lake Road

Drilled By: Lantech Drilling Services

Engineer: Gordon Mouland

FUNDY ENGINEERING

		7						
	SUBSURFACE PROFILE		opunionania.	SAN	APLE			SPT/Moisture Content
Depth (ft)	Description	Symbol	Number	Type	N value/RQD	Recovery	Mater Level	N-Value/% 10 20 30 40 50 60 70 80 90 Shear Vane Test MPa 1 2 3 4
. 0.0	0 Ground Surface			 • • • • • • • • • • • • • • • • • • •				
-70.00	Description of the property of		1 2 3 4 5 6 7	SS SS SS				
-99.00			(Anti-terminal and a supplemental and a supplementa					
-33.00	End of Borehole		Patricia de la companya de la compan	The content of the co				
A CONTRACTOR OF THE CONTRACTOR		I	B	1			1	

Datum: Assumed

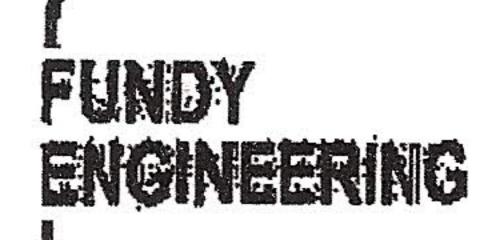
Borehole Number: 8

Project: Bedrock Depth

Client: Meridian Construction & DevelopmentDrill Date: June 24, 2005

Site Location: Ashburn Lake Road

Engineer: Gordon Mouland



		SUBSURFACE PROFILE			SAR	APLE	7				SPT/			Conf	tent	
					entraction of the second	g		100	10	20	30	N-1 40	/alue/ 50		70 60	90
€	ation	Description	ō	賣		Ne.R	Very				Sr	ear '	Vane	Tes	t t	
Depth	E S		Symbol	Acuna	Гура	3	Recovery	Yater	•	1		2	MPa	3	A	•
_	0.00	Ground Surface	S	Z	-	Z	œ	5		 		1		į	į	
0-	0.00	Brown Silty Sand Bedrock Refuest								T	T				Π	
1=			1													
2-				8						ing organization in the state of the state o		STATISTICS OF THE STATIST OF THE STATIST OF THE STATIST OF THE STATIST OF THE STATIS	photograph drawning	Andrew Company		
3-										Palestration		Activities de la constant de la cons				
4-										Participation of the Participa	NOTE THE PROPERTY OF SERVICE	A Company of the Comp				
5												credition delibrary des				
6											Committee of the second					
7-	. 70															
8-2																
9-				A Company of the Comp			Continues							e de la company		
7	-10.00									O'STING SINGLESS OF STREET				Stagetica careers become		
7	-11.00	Bedrock Refusal at 11 feet		1	SS	100										August Constitution
[]		End of Borehole									- Administration					
12-						edito estimum properties				Mediterining						
13-							NAMES OF TAXABLE PARTY.									
14급						Physical contracts	Name of the last o			enci de la companya d			S3. Auchtrant			
15-										and the state of t						
16]											Nicolation and particular particu					Mennether
17=			*			An was the first designation of the		and the fact that the second			Medicion					
18=					Paddhermone	Memory	hand any opposite distribution of	COTONICIES COCCUSAGES	NO-PLANS CONTRACTOR	Appropriate description of the second						
Ee1					No the Control of the		Daiopogalipogorgagi	DESCRIPTION		(Thousand Stades has						
Ē05						lestificadolisation				and the first contract of the first contract	Comment of the Commen					
21=				elistikas (Mark		- Contractor of the Contractor					Besidelinediane	Military Exerces			Andrews Property of the Party o	
22-3	PATCHS IN COLUMN AND AND AND AND AND AND AND AND AND AN					SPREASON WALCOURSE									THE STATE OF THE S	
=			E	w/industrial supplies the		where the state of					THE PARTY OF THE P					
3-1	Desirence American de la Company de la Compa		- Charleston of the Control of the C	napido de la constitución de la			and the state of t	Helestonis pare in the least of								
4=			PR thundra			(Marie Carlotte Andreas Andrea	Anima Pisaline surgest	PRINTED AND AND AND AND AND AND AND AND AND AN		Acceptance Scientific Management	Subsemple of the Control of the Cont	Action to the second se				
25-]										t musekennen		i www.comedia-v	, t		5	•
	riiled I	By: Lantech Drilling Services D	atum:	Assı	umed	Ł				SI	reet:	1 of	1			

