



GEMTEC

CONSULTING ENGINEERS
AND SCIENTISTS

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9 August 2012

File: 6489.07-L01

via e-mail Garth.Holder@pwgsc-tpsgc.gc.ca

Public Works and Government Services Canada
1045 Main Street, Unit 100
Moncton, NB
E1C 1H1

DRAFT

Attention: Garth Holder, Project Manager

**Re: Marine Test Pit Investigation – McEachern's Point, NB, Harbour Channel
And Gully Entrance (Call Up EC015-110732/001/PWB)**

GEMTEC Limited was retained by Public Works and Government Services Canada to undertake a marine test pit investigation in the McEachern's Point Wharf channel and the Gully entrances. We understand that the test pit data will be used to determine dredging methods. The purpose of this investigation was to assess the soils in the channel. This report contains a summary of the fieldwork carried out.

Fifteen test pits (TP) were excavated on 24 and 25 July 2012 in the McEachern's Point channel. The work was carried out in the presence of one of our geotechnical technologists using a self propelled floating dredge plan, Amphibex, equipped with an excavator using a 1 cubic meter hydraulic bucket subcontracted to ECO Technologies. Fourteen of the fifteen test pits were excavated to minimum elevation of -2.5 metres chart datum (CD). Test pit 11 was excavated to elevation -2.2 metres CD where a compact grey sand and gravel was encountered. Based on observations in the field the excavator (Amphibex) was suitable to excavate all soils encountered with the exception of the grey sand and gravel encountered at TP 11 at an approximate elevation of -2.0 metres CD.

Test pit locations were provided by PWGSC. GEMTEC Limited guided the excavator and surveyed the test pit locations in the field using a Topcon HiPer L1 GPS. All elevations on appended test pit logs are based on chart datum and are referenced to benchmark 88B9004 with a published elevation of +3.120 metres at the McEachern's Point wharf.

Descriptive terms and detailed test pit logs, site photos, and test pit coordinates are attached (Attachments A, B and C, respectively).



If you have any questions regarding our proposal contact the undersigned.



Harold McQuade, P.Eng
GEMTEC Limited

Attachments

(tds)

Attachment A

Descriptive Terms and Detailed Test Pit Logs

DESCRIPTIVE TERMS- BOREHOLE/TEST PIT LOG

SOILS

GRAIN SIZE

0.01

0.1

1.0

10

100

1000mm

SILT CLAY

SAND

GRAVEL

Cobble

BOULDER

F

M

C

0.08

0.4

2

5

80

200

DESCRIPTIVE TERMINOLOGY

0

10

20

35

weight. % of material

TRACE

SOME

ADJECTIVE

and > 35%
noun > 35% and main fraction

trace clay, etc.

some gravel, etc.

silty, etc.

sand and gravel, etc.

COMPACTNESS

gravels, sands, tills

N, RANGE

0 - 4

4 - 10

10 - 30

30 - 50

> 50

DENSITY

V. LOOSE

LOOSE

MEDIUM

DENSE

V. DENSE

CONSISTENCY

silt, clay

S, KPa

< 12.5

12.5 - 25

25 - 50

50 - 100

100 - 200

CONSISTENCY

V. SOFT

SOFT

MEDIUM

STIFF

V. STIFF

ROCK

RQD

0 - 25

25 - 50

50 - 75

75 - 90

90 - 100

OVERALL QUALITY

VERY POOR

POOR

FAIR

GOOD

EXCELLENT

FRACTURE SPACING

VERY CLOSE 20 - 60 mm

CLOSE 60 - 200 mm

MODERATE 200 - 600 mm

WIDE 600 - 2000 mm

VERY WIDE 2 - 6 m

COMP. STR. MPa

1 - 5

5 - 25

25 - 50

50 - 100

100 - 250

DESCRIPTION

V. WEAK

WEAK

MODERATE









STRONG

V. STRONG





SAMPLE TYPES (location to scale on log)

S SPLIT TUBE	G SHOVEL
T SHELBY TUBE	H CARVED BLOCK
P PISTON	K SLOTTED
F AUGER	V IN SITU VANE
W WASH	NR NO RECOVERY

LOG SYMBOLS

			
GRAVEL	SAND	SILT	CLAY
			
ORGANIC	BOULDER	ROCK	TILL

ROCK CORES A(30mm); B(41mm); N(54mm)

			
SCREEN WITH SAND	PIPE WITH SAND	PIPE WITH BENTONITE	PIPE WITH BACKFILL

WELL SYMBOLS

- N - standard penetration test; blows by 475 J drop hammer to advance Std. 50mm O.D. split tube sampler 0.3m
- RQD - percent of core consisting of hard, sound pieces in excess of 100mm long (excluding machine breaks)
- RECOVERY - sample recovery expressed as percent or length
- S - shear strength, kPa; vane \oplus ; penetrometer \blacksquare ; unconfined \circ ; U_c unconfined compressive strength
- Sr - shear strength, remoulded; vane \otimes ; penetrometer \square
- Dd - dry density; t/m^3
- W - natural moisture content, percent *
- PL - plastic limit, percent —
- LL - liquid limit, percent —
- ND - non detect, total petroleum hydrocarbons (TPH) not detected in soil
- Groundwater Level ∇ ; Seepage ∇

**GEMTEC** LIMITEDGROUND ENGINEERING
& MATERIALS TECHNOLOGY
Fredericton, Moncton, Bathurst N.B. Canada

TEST PIT LOG

Client		Public Works and Gouvernement Services Canada				Proj No.		6489.07		Test pit	
Project		Marine Test Pit Investigation				Date End		24.July.2012		TP 1 (MP) Page 1 of 1	
Location		McEachern's Point, NB				<div>0 25 50 75 100</div> <div>Undrained Shear Strength - kPa</div> <div><input type="checkbox"/> Pocket Penetrometer <225 <input checked="" type="checkbox"/> Pocket Penetrometer</div> <div><input checked="" type="checkbox"/> Field Vane Test <input checked="" type="checkbox"/> Remoulded</div> <div>Water Content & Atterberg Limits</div> <div>Dynamic Penetration Test, blows/0.3m</div> <div>Standard Penetration Test, blows/0.3m</div> <div><div>W_p W W_L</div><div>80 90 100</div></div>					
Ground Level, m		Datum:		Chart		Logged By		TDS			
-1.60											
DEPTH		SAMPLE		LOG		DESCRIPTION					
m		No TYPE (RQD) REC mm									
0						Black SILT some organics.					
1						Brown SILT, some sand and organics.					
2						End of Test Pit at elevation -3.60 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.					

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TEST PIT LOG

Client		Public Works and Gouvernement Services Canada		Proj No. 6489.07		Test pit TP 2 (MP)	
Project		Marine Test Pit Investigation		Date End 24.July.2012		Page 1 of 1	
Location				McEachern's Point, NB			
Ground Level, m		Datum:		Logged By		TDS	
-1.34		Chart		TDS			
DEPTH m				Undrained Shear Strength - kPa			
0				0 25 50 75 100			
SAMPLE				Legend			
No TYPE (RQD) REC mm LOG				<input type="checkbox"/> Pocket Penetrometer <225 <input checked="" type="checkbox"/> Field Vane Test <input checked="" type="checkbox"/> Pocket Penetrometer <input checked="" type="checkbox"/> Remoulded			
DESCRIPTION				Water Content & Atterberg Limits Dynamic Penetration Test, blows/0.3m Standard Penetration Test, blows/0.3m			
0				0 10 20 30 40 50 60 70 80 90 100			
1							
2							
Dark grey SILT some organics.							
Dark grey SILT some sand and organic layers (compressed sea weed).							
Dark grey SAND and GRAVEL, some cobbles.							
End of Test Pit at elevation -3.84 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.							

TEST PIT LOG

[illegible]

TEST PIT LOG

Client		Public Works and Government Services Canada						Proj No.		6489.07		Test pit	
Project		Marine Test Pit Investigation						Date End		24.July.2012		TP 4 (MP)	
Location		McEachern's Point, NB										Page 1 of 1	
Ground Level, m		-1.21		Datum:		Chart		Logged By		TDS			
DEPTH m		SAMPLE				LOG		DESCRIPTION					
		No	TYPE	N (ROD)	REC mm								
0						Dark grey SILT, some sand and organics.							
1						Brown SAND with some gravel and cobbles and intermittent organic layers (compressed sea weed).							
2						SAND and GRAVEL, some cobbles.							
						End of Test Pit at elevation -3.31 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.							

TEST PIT LOG

[illegible]

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Client Public Works and Gouvernement Services Canada					Proj No. 6489.07		Test pit TP 6 (MP)		
Project Marine Test Pit Investigation					Date End 24.July.2012		Page 1 of 1		
Location McEachern's Point, NB					<div style="display: flex; justify-content: space-between;"> 0 25 50 75 100 Undrained Shear Strength - kPa </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <input type="checkbox"/> Pocket Penetrometer <225 <input checked="" type="checkbox"/> Field Vane Test <input checked="" type="checkbox"/> Pocket Penetrometer <input checked="" type="checkbox"/> Remoulded </div> <div style="text-align: center; margin-top: 10px;"> <small>Water Content & Atterberg Limits</small> <small>Dynamic Penetration Test, blows/0.3m</small> <small>Standard Penetration Test, blows/0.3m</small> </div> <div style="text-align: center;"> <small>W_p W W_L</small> </div> <div style="display: flex; justify-content: space-between; font-size: small;"> 0 10 20 30 40 50 60 70 80 90 100 </div>				
Ground Level, m -1.16		Datum: Chart		Logged By TDS					
DEPTH m	SAMPLE				LOG	DESCRIPTION			
No	TYPE	N (RQD)	REC mm						
0						Grey SILT, some organics.			
						0.20 ----- -1.36			
						Grey silty SAND, some cobbles.			
						0.70 ----- -1.86			
						Brown SAND, some gravel and cobbles.			
1						1.20 ----- -2.36			
						Grey Sand, some gravel and cobbles.			
						2.10 ----- -3.26			
2						End of Test Pit at elevation -3.26 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.			

TEST PIT LOG

Client		Public Works and Government Services Canada				Proj No.		6489.07		Test pit	
Project		Marine Test Pit Investigation				Date End		24.July.2012		TP 7 (MP)	
Location		McEachern's Point, NB								Page 1 of 1	
Ground Level, m		-0.85		Datum:		Chart		Logged By		TDS	
DEPTH m		SAMPLE			LOG		DESCRIPTION				
		No	TYPE	N (RQD)	REC mm						
0						Dark SILT, some organics (Wood and sea shells)					
						Brown sity SAND, trace gravel and wood debris.					
1						Brown SAND, some gravel and cobbles with trace to some boulders (300 - 400 mm)					
2						End of Test Pit at elevation -2.85 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.					

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Client Public Works and Gouvernement Services Canada					Proj No. 6489.07		Test pit TP 8 (MP)	
Project Marine Test Pit Investigation					Date End 24.July.2012		Page 1 of 1	
Location McEachern's Point, NB					<div style="display: flex; justify-content: space-between;"> 0 25 50 75 100 Undrained Shear Strength - kPa </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <input type="checkbox"/> Pocket Penetrometer <225 <input checked="" type="checkbox"/> Field Vane Test <input checked="" type="checkbox"/> Pocket Penetrometer <input checked="" type="checkbox"/> Remoulded </div> <div style="text-align: center; margin-top: 10px;"> <small>Water Content & Atterberg Limits</small> <small>Dynamic Penetration Test, blows/0.3m</small> <small>Standard Penetration Test, blows/0.3m</small> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> 0 10 20 30 40 50 60 70 80 90 100 </div>			
Ground Level, m -0.75		Datum: Chart		Logged By TDS				

DEPTH m	SAMPLE				LOG	DESCRIPTION											
	No	TYPE	N (RQD)	REC mm													
0					0	0.40	-1.15										
					0.60	-1.35											
1					1.10	-1.85											
					2.00	-2.75											
2					End of Test Pit at elevation -2.75 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.												

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TEST PIT LOG

Client		Public Works and Gouvernement Services Canada		Proj No. 6489.07		Test pit TP 9 (MP)	
Project		Marine Test Pit Investigation		Date End 24.July.2012		Page 1 of 1	
Location				McEachern's Point, NB			
Ground Level, m		Datum: Chart		Logged By TDS			
-1.28							
				<div>0 25 50 75 100</div> <div>Undrained Shear Strength - kPa</div> <div><input type="checkbox"/> Pocket Penetrometer <225 <input checked="" type="checkbox"/> Pocket Penetrometer</div> <div><input checked="" type="checkbox"/> Field Vane Test <input checked="" type="checkbox"/> Remoulded</div> <div>Water Content & Atterberg Limits</div> <div>Dynamic Penetration Test, blows/0.3m</div> <div>Standard Penetration Test, blows/0.3m</div> <div>0 10 20 30 40 50 60 70 80 90 100</div> <div>W_p W W_L</div>			
DEPTH	SAMPLE			LOG	DESCRIPTION		
m	No	TYPE	(RQD) REC mm				
0					Grey SAND some gravel with trace organics.		
					0.30 -1.58		
					Peat		
					0.45 -1.73		
					Brown silty SAND, some organics, trace gravel and trace to some cobbles.		
1					1.20 -2.48		
					Grey SAND and GRAVEL with trace to some cobbles.		
					1.90 -3.18		
2					End of Test Pit at elevation -3.10 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.		

TEST PIT LOG

[illegible]

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Client Public Works and Gouvernement Services Canada					Proj No. 6489.07		Test pit TP 11 (MP)												
Project Marine Test Pit Investigation					Date End 24.July.2012		Page 1 of 1												
Location McEachern's Point, NB					<div style="display: flex; justify-content: space-between;"> <div> 0 25 50 75 100 Undrained Shear Strength - kPa </div> <div> <input type="checkbox"/> Pocket Penetrometer <225 <input checked="" type="checkbox"/> Field Vane Test </div> <div> <input checked="" type="checkbox"/> Pocket Penetrometer <input checked="" type="checkbox"/> Remoulded </div> </div> <div style="text-align: center; margin-top: 10px;"> Water Content & Atterberg Limits Dynamic Penetration Test, blows/0.3m Standard Penetration Test, blows/0.3m </div>														
Ground Level, m -0.15		Datum: Chart		Logged By TDS															
DEPTH m	SAMPLE				LOG	DESCRIPTION													
	No	TYPE	N (RQD)	REC mm															
0						Brown silty SAND, trace to some gravel.													
						0.15 -0.30 Brown SAND and GRAVEL, some cobbles and boulders.													
						0.45 -0.60 Peat													
1						1.00 -1.15 Grey to brown silty sand some gravel and cobbles, trace organics.													
2						2.00 -2.15 - Sand compact at 1.8 metres.													
						End of Test Pit at elevation --2.15 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.													

TEST PIT LOG

Client		Public Works and Government Services Canada						Proj No.		6489.07		Test pit	
Project		Marine Test Pit Investigation						Date End		24.July.2012		TP 12 (MP) Page 1 of 1	
Location		McEachern's Point, NB						<div>02550Undrained Shear Strength - kPa75100</div> <div><input type="checkbox"/> Pocket Penetrometer <225<input checked="" type="checkbox"/> Pocket Penetrometer <input checked="" type="checkbox"/> Field Vane Test<input checked="" type="checkbox"/> Remoulded</div> <div>Water Content & Atterberg Limits Dynamic Penetration Test, blows/0.3m Standard Penetration Test, blows/0.3m</div> <div>0102030405060708090100</div> <div><div>w_pw_L</div><div>*</div><div>★●</div></div>					
Ground Level, m				Datum:		Chart		Logged By		TDS			
DEPTH m		SAMPLE				LOG		DESCRIPTION					
		No	TYPE	N (RQD)	REC mm								
0							Brown SAND, some cobbles and organics.						
							0.50----- -1.53 Peat						
							0.70----- -1.73 Brown silty SAND, some cobbles and trace organics with intermitent peat layers.						
1							1.50----- -2.53 End of Test Pit at elevation -2.53 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.						

TEST PIT LOG

Client		Public Works and Government Services Canada				Proj No.		6489.07		Test pit	
Project		Marine Test Pit Investigation				Date End		24.July.2012		TP 13 (MP) Page 1 of 1	
Location		McEachern's Point, NB				<div>0255075100</div> <div>Undrained Shear Strength - kPa</div> <div><input type="checkbox"/> Pocket Penetrometer <225</div> <div><input checked="" type="checkbox"/> Pocket Penetrometer</div> <div><input checked="" type="checkbox"/> Field Vane Test</div> <div><input checked="" type="checkbox"/> Remoulded</div> <div><div>W_pW_L</div><div>W</div><div>★</div><div>●</div></div> <div>Water Content & Atterberg Limits</div> <div>Dynamic Penetration Test, blows/0.3m</div> <div>Standard Penetration Test, blows/0.3m</div> <div>0102030405060708090100</div>					
Ground Level, m		-1.22		Datum:		Chart		Logged By		TDS	
DEPTH	SAMPLE				LOG	DESCRIPTION					
m	No	TYPE	N (RQD)	REC mm							
0						Brown SAND and GRAVEL some cobbles.					
						0.50----- -1.72 Peat					
						0.80----- -2.02 Grey SAND and GRAVEL, some cobbles and trace organics.					
1						1.20----- -2.42 Grey SAND, trace to some gravel. Sand compact at 1.2 metres.					
						1.60----- -2.82 End of Test Pit at elevation -2.82 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.					

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TEST PIT LOG

Client					Public Works and Gouvernement Services Canada					Proj No.		6489.07		Test pit					
Project					Marine Test Pit Investigation					Date End		24.July.2012		TP 14 (MP) Page 1 of 1					
Location					McEachern's Point, NB					<div>0 25 50 75 100</div> <div>Undrained Shear Strength - kPa</div> <div><input type="checkbox"/> Pocket Penetrometer <225 <input checked="" type="checkbox"/> Pocket Penetrometer</div> <div><input checked="" type="checkbox"/> Field Vane Test <input checked="" type="checkbox"/> Remoulded</div> <div>Water Content & Atterberg Limits</div> <div>Dynamic Penetration Test, blows/0.3m</div> <div>Standard Penetration Test, blows/0.3m</div> <div>0 10 20 30 40 50 60 70 80 90 100</div> <div><div>W_p W W_L</div><div><div></div><div></div><div></div></div></div>									
Ground Level, m		Datum:		Chart		Logged By		TDS											
-0.90																			
DEPTH m										No TYPE (RQD) REC mm LOG DESCRIPTION									
0										Brown SAND and GRAVEL with some cobbles and boulders.									
1										- flat boulders in excess of 300 mm observed. - Sand content increases with depth.									
1.70										-2.60									
										End of Test Pit at elevation -2.60 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.									

TEST PIT LOG

Client		Public Works and Government Services Canada				Proj No.		6489.07		Test pit	
Project		Marine Test Pit Investigation				Date End		24.July.2012		TP 15 (MP) Page 1 of 1	
Location		McEachern's Point, NB									
Ground Level, m		-1.40		Datum: Chart		Logged By		TDS			
DEPTH m	SAMPLE				LOG	DESCRIPTION					
	No	TYPE	N (RQD)	REC mm							
0						Brown SAND and GRAVEL with COBBLES and BOULDERS (300 to 600 mm)					
1						Grey to orange brown silty SAND, trace organics with trace to some cobbles.					
						End of Test Pit at elevation -3.10 metres chart datum as referenced to benchmark 88B9004 with a published elevation of +3.12 chart datum.					

Attachment B

Select Site Photos



Photo 1 - ECO Technologies Amphibian Excavator at McEachern's Point Wharf.



Photo 2 - Amphibian excavator in McEachern's point channel.



Photo 3 - Manual sounding undertaken at test pit locations.



Photo 4 - Depth during excavation tracked by sounding measurements on inside of excavator arm.



Photo 5 - Dark silt with organics encountered at TP 1 - McEachern's Point (Elev. -1.60 to -2.60 CD).



Photo 6 - Dark grey silt encountered at TP 2 - MaEachern's Point (Elevation -1.34 to -2.34 CD).



Photo 7 - Dark silt with some organics some gravel encountered at TP 3 - McEachern's Point (Elevation -1.00 to -1.80 CD).



Photo 8 - Organics present in silt layer at TP 4 - McEachern's Point (Elevation -1.21 to -2.21 CD).



Photo 9 - Dark grey silt with some organics at TP 5 - McEachern's Point (Elevation – 1.29 to –2.49 CD).



Photo 10 - Grey silty sand with some cobbles encountered at TP 6 - McEachern's Point (Elevation –1.86 to –2.36 CD).



Photo 11 - Brown silty sand with trace gravel and wood debris encountered at TP 7 - McEachern's Point (Elevation -1.00 to -1.85 CD).



Photo 12 - Orange brown sand with some gravel encountered at TP 8 – McEachern's Point (Elevation – 1.35 to -1.85 CD).



Photo 13 - Peat encountered at TP 9 - McEachern's Point (Elevation –1.58 to –1.73 CD).



Photo 14 - Thick peat layer encountered at TP 10 - MaEachern's Point (Elevation – 0.47 to –1.12 CD).



Photo 15 - Thick layer of peat encountered at TP 11 - McEachern's Point (Elevation -0.60 to -1.15 CD).



Photo 16 - Brown sand with some cobbles and organics encountered at TP 12 - McEachern's Point (Elevation -1.03 to -1.53 CD).



Photo 17 - Brown sand and gravel with cobbles and organics encountered at TP 13 - McEacherns Point (Elevation -1.22 to -1.72 CD).



Photo 18 - Brown sand and gravel with some cobbles and flat boulders encountered at TP 14 - McEachern's Point (Elevation -0.90 to -2.60 CD).



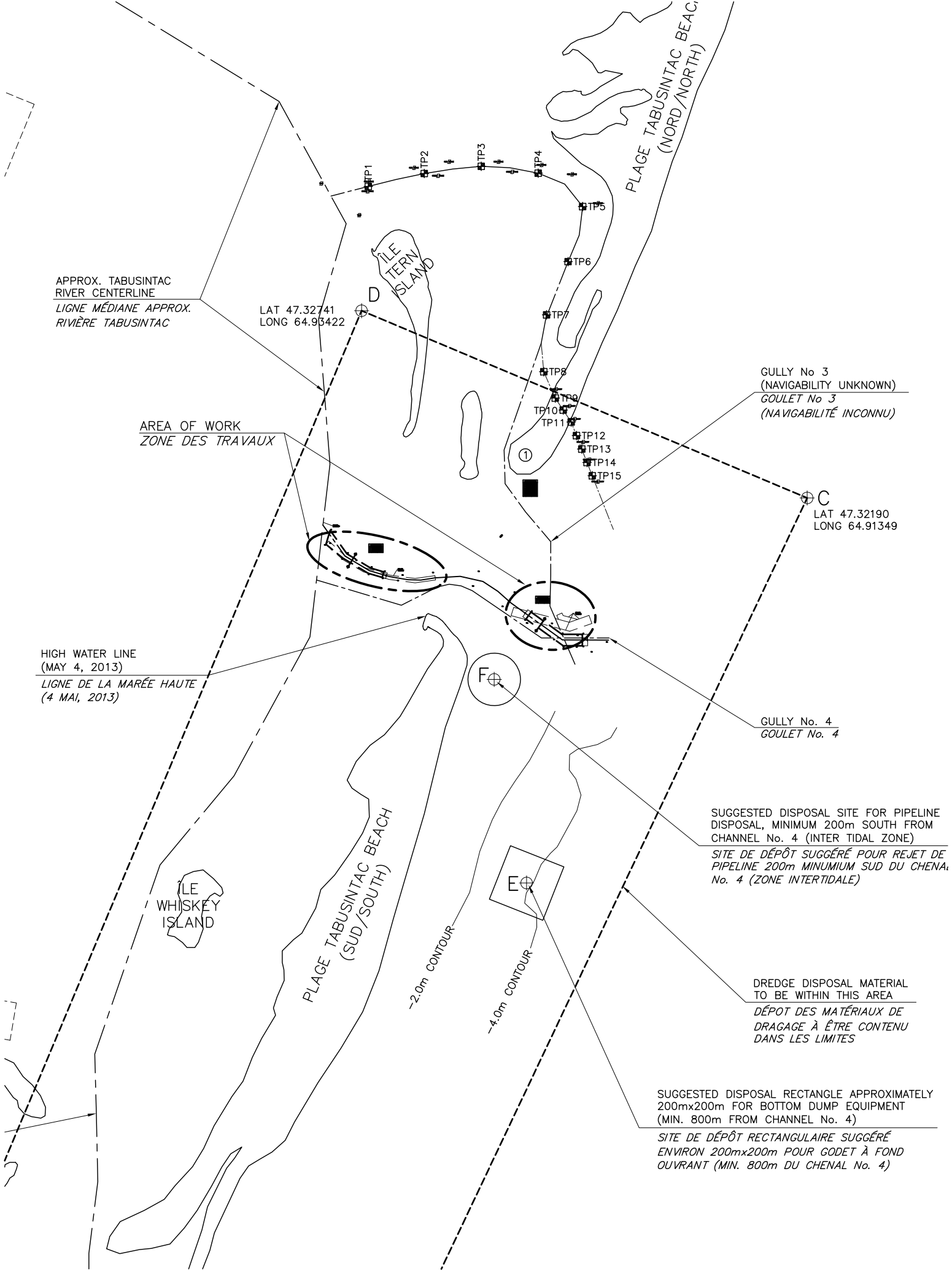
Photo 19 - Brown sand and gravel with cobbles and boulders encountered at TP 15 - McEachern's Point (Elevation -1.40 to -2.90 CD).

Attachment C

Test Pit Coordinates

McEachern's Point Test Pit Coordinates

BH	TP Elevation	TP Depth	Easting*	Northing*
	(m)	(m)		
TP 1	-1.60	2.0	353875.951	5243795.767
TP 2	-1.34	2.5	354070.820	5243840.621
TP 3	-1.00	2.0	354269.138	5243865.852
TP 4	-1.21	2.1	354467.249	5243841.906
TP 5	-1.29	1.9	354622.036	5243725.570
TP 6	-1.16	2.1	354571.356	5243534.053
TP 7	-0.85	2.0	354496.453	5243348.880
TP 8	-0.75	2.0	354486.602	5243150.972
TP 9	-1.28	1.9	354526.640	5243059.337
TP 10	-0.02	3.6	354554.303	5243017.686
TP 11	-0.15	2.0	354581.965	5242976.036
TP 12	-1.03	1.5	354600.528	5242928.798
TP 13	-1.22	1.6	354618.952	5242881.915
TP 14	-0.90	1.7	354637.320	5242835.172
TP 15	-1.40	1.7	354655.442	5242789.058



APPROX. TABUSINTAC
RIVER CENTERLINE
LIGNE MÉDIANE APPROX.
RIVIÈRE TABUSINTAC

LAT 47.32741
LONG 64.95422

AREA OF WORK
ZONE DES TRAVAUX

HIGH WATER LINE
(MAY 4, 2013)
LIGNE DE LA MARÉE HAUTE
(4 MAI, 2013)

GULLY No. 3
(NAVIGABILITY UNKNOWN)
GOULET No. 3
(NAVIGABILITÉ INCONNU)

C
LAT 47.32190
LONG 64.91349

GULLY No. 4
GOULET No. 4

SUGGESTED DISPOSAL SITE FOR PIPELINE
DISPOSAL, MINIMUM 200m SOUTH FROM
CHANNEL No. 4 (INTER TIDAL ZONE)
SITE DE DÉPÔT SUGGÉRÉ POUR REJET DE
PIPELINE 200m MINIMUM SUD DU CHENA.
No. 4 (ZONE INTERTIDALE)

DREDGE DISPOSAL MATERIAL
TO BE WITHIN THIS AREA
DÉPÔT DES MATÉRIAUX DE
DRAGAGE À ÊTRE CONTENU
DANS LES LIMITES

SUGGESTED DISPOSAL RECTANGLE APPROXIMATELY
200mx200m FOR BOTTOM DUMP EQUIPMENT
(MIN. 800m FROM CHANNEL No. 4)
SITE DE DÉPÔT RECTANGULAIRE SUGGÉRÉ
ENVIRON 200mx200m POUR GODET À FOND
OUVRANT (MIN. 800m DU CHENAL No. 4)