



+³, ×³: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE



PROJECT 11-1191-0007		RECORD OF DCPT No H3-DC1		1 OF 1 METRIC	
G.W.P. 156-98-00		LOCATION N 5137372.2; E 277932.1		ORIGINATED BY EHS	
DIST HWY 17		BOREHOLE TYPE Dynamic Cone Penetration Test		COMPILED BY EC	
DATUM Geodetic		DATE June 21, 2012		CHECKED BY SEMC	

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT		PLASTIC LIMIT W _p	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W _L	UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)	
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			SHEAR STRENGTH kPa							WATER CONTENT (%)
								○ UNCONFINED	+ FIELD VANE						
242.9 0.0	GROUND SURFACE							20 40 60 80 100	20 40 60				kN/m ³	GR SA SI CL	
								242							
								241							
								240							
								239							
								238							
								237							
								236							
								235							
								234							
								233							
								232							
								231							
230.5 12.4	END OF DCPT REFUSAL TO FURTHER PENETRATION (HAMMER BOUNCING)														

+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 08/11/13 DATA INPUT:



1 OF 2 METRIC

PROJECT 11-1191-0007

G.W.P. 156-98-00

LOCATION N 5137549.1; E 278140.1

ORIGINATED BY LK

DIST _____ HWY 17

BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring

COMPILED BY EC

DATUM Geodetic

DATE May 31 to June 4, 2012

CHECKED BY SEMP

[illegible]

Continued Next Page

+³, ×³: Numbers refer to Sensitivity ○^{3%} STRAIN AT FAILURE

USUD-MTO 001 11-1191-0007.GPJ GAL-MISS.GDT 30/06/15 DATA INPUT:



PROJECT 11-1191-0007

G.W.P. 156-98-00

DIST

DATUM Geodetic

RECORD OF BOREHOLE No H3-25

LOCATION N 5137516.0; E 278139.2

BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring

DATE June 8 and 11, 2012

1 OF 2 METRIC

ORIGINATED BY LK

COMPILED BY EC

CHECKED BY SEMC

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT			PLASTIC LIMIT w _p	NATURAL MOISTURE CONTENT w	LIQUID LIMIT w _L	UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			20 40 60 80 100	20 40 60 80 100	20 40 60 80 100					
242.2	GROUND SURFACE														
0.0	TOPSOIL														
241.9															
0.3	Sand, some gravel, some silt (FILL) Compact Brown Moist to wet		1	AS	-		242								
			2	SS	12		241								
							240								
239.6							239								
2.6	SILTY CLAY to CLAY Firm to stiff Grey Wet Trace organics above 3.7 m depth.		3	SS	2		238								
			4	SS	5		237								
			5	SS	WH		236								
			6	TO	PH		235								
			7	SS	WH		234								
			8	SS	WH		233								
			9	SS	WH		232								
			10	SS	WH		231								
							230								
							229								
							228								

Continued Next Page

+ 3, x 3: Numbers refer to Sensitivity
○ 3% STRAIN AT FAILURE

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT 11-1191-0007		RECORD OF BOREHOLE No H3-24		1 OF 2 METRIC	
G.W.P. 156-98-00		LOCATION N 5137519.3; E 278113.0		ORIGINATED BY LK	
DIST _____ HWY 17		BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring		COMPILED BY EC	
DATUM Geodetic		DATE June 4 and 5, 2012		CHECKED BY SEMC	

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT			PLASTIC LIMIT w _p	NATURAL MOISTURE CONTENT w	LIQUID LIMIT w _L	UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			20 40 60 80 100	20 40 60 80 100	20 40 60 80 100					
243.8	GROUND SURFACE														
0.0 243.5	ASPHALT (350 mm)														
0.3	Sand, some silt, trace gravel (FILL) Compact Brown Moist		1	AS	-		243				o			5 77 (18)	
242.0 1.8	Silty clay, trace sand (FILL) Stiff Brown Moist		2	SS	20		242								
241.1 2.7	Sand some silt, trace gravel (FILL) Very dense Brown Moist		3	SS	52		241								
239.5 4.3	Silty clay (FILL) Firm Grey Wet		4A 4B	SS	4		239						o		
238.7 5.1	SILTY CLAY Firm Grey Wet Trace organics above 5.2 m depth.						238								
			5	SS	2		237	5 +							
			6	SS	WH		236								
							235	4 +							
			7	SS	WH		234								
							233	5 +							
			8	SS	WH		232								
							231	6 +							
			9	TO	PH		230								
							229	5 +							
			10	SS	WH										
								4 +							

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+ 3, x 3: Numbers refer to Sensitivity o 3% STRAIN AT FAILURE

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:

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+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

UD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:

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+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

SUD MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:

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+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

SUD MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT <u>11-1191-0007</u>		RECORD OF BOREHOLE No H3-20		1 OF 2	METRIC
G.W.P. <u>156-98-00</u>		LOCATION <u>N 5137433.7; E 278040.5</u>		ORIGINATED BY <u>LK</u>	
DIST <u> </u> HWY <u>17</u>		BOREHOLE TYPE <u>108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring</u>		COMPILED BY <u>EC</u>	
DATUM <u>Geodetic</u>		DATE <u>May 29, 2012</u>		CHECKED BY <u>SEMP</u>	

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+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE



PROJECT 11-1191-0007		RECORD OF BOREHOLE No H3-19		1 OF 2 METRIC	
G.W.P. 156-98-00		LOCATION N 5137426.7; E 278010.6		ORIGINATED BY EHS	
DIST HWY 17		BOREHOLE TYPE Portable Equipment, NW Casing, Wash Boring		COMPILED BY EC	
DATUM Geodetic		DATE June 18, 2012		CHECKED BY SEMC	

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT				PLASTIC LIMIT W _p	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W _L	UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			20	40	60	80	100				
241.8	GROUND SURFACE															
0.0	PEAT (Fibrous) Very soft Black Wet		1	SS	WH		241									
			2	SS	WH		240									
239.8			3	SS	2		239									
2.0	SILTY CLAY Firm to stiff Grey Wet		4	SS	4		238									
			5	SS	2		237									
			6	SS	WH		236									
			7	SS	WH		235									
			8	SS	WH		234									
			9	SS	1		233									
			10	SS	WH		232									
			11	SS	10		231									
230.4	CLAYEY SILT Firm Grey Wet						230									
229.5							229									
12.3	SILT, trace to some clay, trace sand Compact Grey Wet						228									
227.2							227									
14.6																

Continued Next Page

+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:

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+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

UD-MTO 001 11-1191-0007.GPJ GAL-MISS.GDT 30/06/15 DATA INPUT:



PROJECT 11-1191-0007		RECORD OF BOREHOLE No H3-17		1 OF 2 METRIC	
G.W.P. 156-98-00		LOCATION N 5137379.3; E 277988.6		ORIGINATED BY LK	
DIST _____ HWY 17		BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring		COMPILED BY EC	
DATUM Geodetic		DATE June 6, 2012		CHECKED BY SEMC	

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT			PLASTIC LIMIT w _p	NATURAL MOISTURE CONTENT w	LIQUID LIMIT w _L	UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	"N" VALUES			20 40 60 80 100	20 40 60 80 100	20 40 60 80 100					
246.3	GROUND SURFACE						246								
0.0	Gravelly sand, trace to some silt, containing blast rock (FILL) Dense Brown Moist		1	AS	-		245								
			2	SS	39		244								
243.7							243								
2.6	Clayey silt, trace sand (FILL) Very soft to stiff Brown to grey Moist to wet		3	SS	11		242								
			4	SS	WH		241								
240.8							240								
5.5	Gravelly sand, trace to some silt, containing blast rock (FILL) Compact Brown Moist		5	SS	21		239								
239.1							238								
7.2	SILTY CLAY, varved Firm to stiff Grey Wet		6	SS	3		237								
			7	SS	WH		236								
			8	SS	WH		235								
			9	TO	PH		234								
233.0							233								
13.3	SILT, trace to some clay, trace sand Loose to compact Grey Wet		10	SS	7		232								

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+ 3, x 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:

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+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE



PROJECT		11-1191-0007		RECORD OF BOREHOLE No H3-14		2 OF 2		METRIC	
G.W.P.		156-98-00		LOCATION		N 5137341.5; E 277920.8		ORIGINATED BY EHS	
DIST		HWY 17		BOREHOLE TYPE		108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring		COMPILED BY EC	
DATUM Geodetic		DATE		May 23, 2012		CHECKED BY		SEMC	

[illegible]

+³, ×³; Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

SUPD MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT 11-1191-0007

RECORD OF BOREHOLE No H3-13

2 OF 2 METRIC

G.W.P. 156-98-00

LOCATION N 5137571.4; E 278114.9

ORIGINATED BY EHS

DIST HWY 17

BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers

COMPILED BY EC

DATUM Geodetic

DATE May 8, 2012

CHECKED BY SEMC

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT				PLASTIC LIMIT W _p	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W _L	UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			20	40	60	80					
--- CONTINUED FROM PREVIOUS PAGE ---																
227.6	SILTY CLAY Soft to stiff Grey Wet		14	SS	WH											
226.1	CLAYEY SILT to SILT Very loose to loose Grey to brown Wet		15	SS	WH											
222.0	SILT, trace to some clay Very loose to loose Grey Wet		16	SS	5										0 0 88 12	
219.5	END OF BOREHOLE		17	SS	WH											
219.5	END OF DCPT															
Note: 1. Water level at a depth of 3.2 m below ground surface (Elev. 240.7 m) upon completion of drilling.																

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT 11-1191-0007

RECORD OF BOREHOLE No H3-12

2 OF 2 METRIC

G.W.P. 156-98-00

LOCATION N 5137541.7; E 278110.8

ORIGINATED BY LK

DIST HWY 17

BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring

COMPILED BY EC

DATUM Geodetic

DATE June 13, 2012

CHECKED BY SEMC

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT				PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			20	40	60	80	100	W _p	W		
--- CONTINUED FROM PREVIOUS PAGE ---																
225.9 16.5	SILTY CLAY Firm to stiff Grey Wet		10	SS	WH											
219.2 23.2	SILT, trace to some clay Loose to compact Grey Wet		11	SS	9											
			12	SS	10											
217.4 25.0	SAND, trace to some silt Compact Grey Wet		13	SS	11											
217.4 25.0	END OF BOREHOLE		14	SS	26											
Note: 1. Water level at a depth of 0.8 m below ground surface (Elev. 241.6 m) upon completion of drilling.																

+ 3, x 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE



PROJECT 11-1191-0007		RECORD OF BOREHOLE No H3-11		2 OF 2 METRIC	
G.W.P. 156-98-00		LOCATION N 5137534.4; E 278082.1		ORIGINATED BY EHS	
DIST HWY 17		BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring		COMPILED BY EC	
DATUM Geodetic		DATE May 10 and 11, 2012		CHECKED BY SEMC	

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT		PLASTIC NATURAL LIQUID LIMIT MOISTURE CONTENT			UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	20 40 60 80 100	20 40 60 80 100	W _p W W _L	WATER CONTENT (%)		
-- CONTINUED FROM PREVIOUS PAGE --													
227.3	SILTY CLAY, trace sand Soft to firm Grey Wet Varved at 15.2 m depth.		14	SS	WH		228	3					
16.5	SILT, trace to some clay Loose to compact Grey Wet		15	SS	8		227						0 0 87 13
							226						
			16	SS	8		225						
							224						
							223						
			17	SS	16		222						
							221						
220.3	SAND, trace silt Compact Grey Wet						220						
23.5			18	SS	23		219						
218.8	END OF BOREHOLE												
25.0	Note: 1. Water level at a depth of 2.9 m below ground surface (Elev. 240.9 m) upon completion of drilling.												

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT 11-1191-0007		RECORD OF BOREHOLE No H3-10		2 OF 2 METRIC	
G.W.P. 156-98-00		LOCATION N 5137526.2; E 278054.9		ORIGINATED BY LK	
DIST HWY 17		BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring		COMPILED BY EC	
DATUM Geodetic		DATE June 27 and 28, 2012		CHECKED BY SEMC	

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					WATER CONTENT (%)			
						20 40 60 80 100					20 40 60					
						○ UNCONFINED + FIELD VANE										
						● QUICK TRIAXIAL × REMOULDED										
	--- CONTINUED FROM PREVIOUS PAGE ---															
	SILT, some clay, trace sand Very loose to loose Grey Wet		10	SS	6											
			11	SS	7											
			12	SS	9											
223.0																
19.4	SAND and SILT, trace clay Compact Grey Wet		13	SS	14										0 37 61 2	
220.5			14	SS	13											
21.9	END OF BOREHOLE															
	Note: 1. Water level at a depth of 0.8 m below ground surface (Elev. 241.6 m) upon completion of drilling.															

SUD_MTO 003 11-1191-0007.GPJ GAL-MSS.GDT 28/11/13 DATA INPUT:



+³, ×³: Numbers refer to Sensitivity ○^{3%} STRAIN AT FAILURE

MSUD MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT 11-1191-0007

RECORD OF BOREHOLE No H3-8

2 OF 2 METRIC

G.W.P. 156-98-00

LOCATION N 5137474.5; E 278037.0

ORIGINATED BY LK

DIST HWY 17

BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring

COMPILED BY EC

DATUM Geodetic

DATE June 18 and 19, 2012

CHECKED BY SEMC

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT		PLASTIC LIMIT W _p	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W _L	UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					
							○ UNCONFINED ● QUICK TRIAXIAL	+ FIELD VANE × REMOULDED					
						20 40 60 80 100	20 40 60 80 100		20 40 60				GR SA SI CL
	--- CONTINUED FROM PREVIOUS PAGE ---												
228.4	SILTY CLAY Firm to stiff Grey Wet		11	SS	WH	229							
16.3	CLAYEY SILT Firm Grey Wet		12	SS	WH	228	4	+					
226.9						227	1						
17.8	SILT, trace to some clay, trace sand Compact Grey Wet		13	SS	10	226							0 1 89 10
						225							
						224							
			14	SS	29	223							
						222							
221.5						221							
23.2	SAND, trace silt Compact Grey Wet		15	SS	20	220							
219.7	END OF BOREHOLE												
25.0	Note: 1. Water level at a depth of 1.8 m below ground surface (Elev. 242.9 m) upon completion of drilling.												

+ 3, x 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT 11-1191-0007

RECORD OF BOREHOLE No H3-7

2 OF 2 METRIC

G.W.P. 156-98-00

LOCATION N 5137464.1; E 278012.6

ORIGINATED BY EHS

DIST HWY 17

BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring

COMPILED BY EC

DATUM Geodetic

DATE May 15, 2012

CHECKED BY SEMC

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC NATURAL LIQUID LIMIT MOISTURE CONTENT			UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					W _p	W		
--- CONTINUED FROM PREVIOUS PAGE ---						20 40 60 80 100					20 40 60					
						○ UNCONFINED + FIELD VANE					WATER CONTENT (%)				GR SA SI CL	
						● QUICK TRIAXIAL × REMOULDED					20 40 60					
228.3	CLAYEY SILT to SILT Firm Grey Wet		14	SS	WH									○		0 2 82 16
15.7	SILT, some sand, trace to some clay Loose to compact Grey Wet															
			15	SS	8											
			16	SS	11											
223.9	SAND and SILT, trace clay Compact Grey Wet															
20.1																
222.1			17	SS	18									○		0 42 56 2
21.9	END OF BOREHOLE Note: 1. Water level at a depth of 1.1 m below ground surface (Elev. 242.9 m) upon completion of drilling.															

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT 11-1191-0007

G.W.P. 156-98-00

DIST

DATUM Geodetic

LOCATION N 5137455.2; E 277984.5

BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring

DATE June 26, 2012

2 OF 2

METRIC

ORIGINATED BY LK

COMPILED BY EC

CHECKED BY SEMC

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT11-1191-0007

RECORD OF BOREHOLE No H3-5

2 OF 2 METRIC

G.W.P.156-98-00

LOCATIONN 5137430.2; E 277976.5

ORIGINATED BYEHS

DISTHWY17

BOREHOLE TYPE108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring

COMPILED BYEC

DATUMGeodetic

DATEMay 16, 2012

CHECKED BYSEMC

SOIL PROFILE		STRAT PLOT	SAMPLES		GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT W _p	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W _L	UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION		NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa								
						○ UNCONFINED + FIELD VANE ● QUICK TRIAXIAL × REMOULDED										
						20	40	60	80	100	20	40	60		GR SA SI CL	
	--- CONTINUED FROM PREVIOUS PAGE ---															
228.7	SILT, trace to some clay Loose Grey Wet		14	SS	8										0 0 90 10	
16.2	SAND Dense Grey Wet		15	SS	41											
227.0	SILT, trace to some sand, trace clay Compact Grey Wet		16	SS	11											
17.9																
			17	SS	20											
224.5	END OF BOREHOLE															
20.4	Note: 1. Water level at a depth of 2.0 m below ground surface (Elev. 242.9 m) upon completion of drilling.															

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT 11-1191-0007		RECORD OF BOREHOLE No H3-4				2 OF 2		METRIC							
G.W.P. 156-98-00		LOCATION N 5137408.2; E 277963.6				ORIGINATED BY LK									
DIST HWY 17		BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring				COMPILED BY EC									
DATUM Geodetic		DATE June 21 and 22, 2012				CHECKED BY SEMC									
SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT				PLASTIC LIMIT W _p	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W _L	UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa							
-- CONTINUED FROM PREVIOUS PAGE --															
230.5	SAND, trace to some silt Compact Grey Wet		11	SS	16										
15.6															
			12	SS	17										
228.2	SILT, trace sand, trace clay Compact Grey Wet														
17.8															
			13	SS	13										
227.1	END OF BOREHOLE														
18.9	Note: 1. Water level at a depth of 3.4 m below ground surface (Elev. 242.6 m) upon completion of drilling.														

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT 11-1191-0007		RECORD OF BOREHOLE No H3-3		2 OF 2 METRIC	
G.W.P. 156-98-00		LOCATION N 5137398.3; E 277939.3		ORIGINATED BY EHS	
DIST HWY 17		BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring		COMPILED BY EC	
DATUM Geodetic		DATE May 17, 2012		CHECKED BY SEMC	

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT w _p	NATURAL MOISTURE CONTENT w	LIQUID LIMIT w _L	UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)				
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa									WATER CONTENT (%)			
							20	40	60	80	100		20	40	60		GR	SA	SI	CL
	--- CONTINUED FROM PREVIOUS PAGE ---																			
229.9	SAND, trace to some silt Compact Grey Wet		12	SS	15															
16.3	SILT, trace clay Loose Grey Wet		13	SS	5															
228.4	SAND, trace to some silt Compact Grey Wet		14	SS	22															
227.3	END OF BOREHOLE																			
18.9	Note: 1. Water level at a depth of 4.3 m below ground surface (Elev. 241.9 m) upon completion of drilling.																			

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT11-1191-0007

RECORD OF BOREHOLE No H3-2

2 OF 2 METRIC

G.W.P.156-98-00

LOCATIONN 5137394.0; E 277910.9

ORIGINATED BYLK

DIST

HWY17

BOREHOLE TYPE108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring

COMPILED BYEC

DATUMGeodetic

DATEJune 25, 2012

CHECKED BYSEMC

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT	NATURAL MOISTURE CONTENT	LIQUID LIMIT	UNIT WEIGHT γ kN/m³	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					W _p	W		
	--- CONTINUED FROM PREVIOUS PAGE ---						20	40	60	80	100					
	END OF BOREHOLE															
	Note: 1. Water level at a depth of 0.5 m below ground surface (Elev. 243.0 m) upon completion of drilling.															

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:



PROJECT 11-1191-0007		RECORD OF BOREHOLE No H3-1		2 OF 2 METRIC	
G.W.P. 156-98-00		LOCATION N 5137366.3; E 277900.4		ORIGINATED BY EHS	
DIST HWY 17		BOREHOLE TYPE 108 mm I.D. Continuous Flight Hollow Stem Augers, NW Casing, Wash Boring		COMPILED BY EC	
DATUM Geodetic		DATE May 22, 2012		CHECKED BY SEMC	

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC NATURAL LIQUID LIMIT MOISTURE CONTENT			UNIT WEIGHT γ kN/m³	REMARKS & GRAIN SIZE DISTRIBUTION (%) GR SA SI CL	
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					WATER CONTENT (%)				
								○ UNCONFINED + FIELD VANE ● QUICK TRIAXIAL × REMOULDED					w _p w w _L				
	--- CONTINUED FROM PREVIOUS PAGE ---						20	40	60	80	100						
232.9 15.3	END OF BOREHOLE SPOON REFUSAL (HAMMER BOUNCING) Note: 1. Water level at a depth of 6.0 m below ground surface (Elev. 242.2 m) upon completion of drilling.		11	SS	10/0.1		233										

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 28/11/13 DATA INPUT:





