

Appendix C 2021 INVESTIGATION RESULTS



**FACTUAL DATA REPORT. HYDROGEOLOGICAL SITE INVESTIGATION, TOUQUOY IN-PIT
TAILINGS DISPOSAL**

**C.1 SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT
RECORDS**



SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS

SOIL DESCRIPTION

Terminology describing common soil genesis:

<i>Rootmat</i>	- vegetation, roots and moss with organic matter and topsoil typically forming a mattress at the ground surface
<i>Topsoil</i>	- mixture of soil and humus capable of supporting vegetative growth
<i>Peat</i>	- mixture of visible and invisible fragments of decayed organic matter
<i>Till</i>	- unstratified glacial deposit which may range from clay to boulders
<i>Fill</i>	- material below the surface identified as placed by humans (excluding buried services)

Terminology describing soil structure:

<i>Desiccated</i>	- having visible signs of weathering by oxidization of clay minerals, shrinkage cracks, etc.
<i>Fissured</i>	- having cracks, and hence a blocky structure
<i>Varved</i>	- composed of regular alternating layers of silt and clay
<i>Stratified</i>	- composed of alternating successions of different soil types, e.g. silt and sand
<i>Layer</i>	- > 75 mm in thickness
<i>Seam</i>	- 2 mm to 75 mm in thickness
<i>Parting</i>	- < 2 mm in thickness

Terminology describing soil types:

The classification of soil types are made on the basis of grain size and plasticity in accordance with the Unified Soil Classification System (USCS) (ASTM D 2487 or D 2488) which excludes particles larger than 75 mm. For particles larger than 75 mm, and for defining percent clay fraction in hydrometer results, definitions proposed by Canadian Foundation Engineering Manual, 4th Edition are used. The USCS provides a group symbol (e.g. SM) and group name (e.g. silty sand) for identification.

Terminology describing cobbles, boulders, and non-matrix materials (organic matter or debris):

Terminology describing materials outside the USCS, (e.g. particles larger than 75 mm, visible organic matter, and construction debris) is based upon the proportion of these materials present:

<i>Trace, or occasional</i>	Less than 10%
<i>Some</i>	10-20%
<i>Frequent</i>	> 20%

Terminology describing compactness of cohesionless soils:

The standard terminology to describe cohesionless soils includes compactness (formerly "relative density"), as determined by the Standard Penetration Test (SPT) N-Value - also known as N-Index. The SPT N-Value is described further on page 3. A relationship between compactness condition and N-Value is shown in the following table.

Compactness Condition	SPT N-Value
<i>Very Loose</i>	<4
<i>Loose</i>	4-10
<i>Compact</i>	10-30
<i>Dense</i>	30-50
<i>Very Dense</i>	>50

Terminology describing consistency of cohesive soils:

The standard terminology to describe cohesive soils includes the consistency, which is based on undrained shear strength as measured by *in situ* vane tests, penetrometer tests, or unconfined compression tests. Consistency may be crudely estimated from SPT N-Value based on the correlation shown in the following table (Terzaghi and Peck, 1967). The correlation to SPT N-Value is used with caution as it is only very approximate.

Consistency	Undrained Shear Strength		Approximate SPT N-Value
	kips/sq.ft.	kPa	
<i>Very Soft</i>	<0.25	<12.5	<2
<i>Soft</i>	0.25 - 0.5	12.5 - 25	2-4
<i>Firm</i>	0.5 - 1.0	25 - 50	4-8
<i>Stiff</i>	1.0 - 2.0	50 - 100	8-15
<i>Very Stiff</i>	2.0 - 4.0	100 - 200	15-30
<i>Hard</i>	>4.0	>200	>30

ROCK DESCRIPTION

Except where specified below, terminology for describing rock is as defined by the International Society for Rock Mechanics (ISRM) 2007 publication "The Complete ISRM Suggested Methods for Rock Characterization, Testing and Monitoring: 1974-2006"

Terminology describing rock quality:

RQD	Rock Mass Quality
0-25	Very Poor Quality
25-50	Poor Quality
50-75	Fair Quality
75-90	Good Quality
90-100	Excellent Quality

Alternate (Colloquial) Rock Mass Quality	
Very Severely Fractured	Crushed
Severely Fractured	Shattered or Very Blocky
Fractured	Blocky
Moderately Jointed	Sound
Intact	Very Sound

RQD (Rock Quality Designation) denotes the percentage of intact and sound rock retrieved from a borehole of any orientation. All pieces of intact and sound rock core equal to or greater than 100 mm (4 in.) long are summed and divided by the total length of the core run. RQD is determined in accordance with ASTM D6032.

SCR (Solid Core Recovery) denotes the percentage of solid core (cylindrical) retrieved from a borehole of any orientation. All pieces of solid (cylindrical) core are summed and divided by the total length of the core run (It excludes all portions of core pieces that are not fully cylindrical as well as crushed or rubble zones).

Fracture Index (FI) is defined as the number of naturally occurring fractures within a given length of core. The Fracture Index is reported as a simple count of natural occurring fractures.

Terminology describing rock with respect to discontinuity and bedding spacing:

Spacing (mm)	Discontinuities	Bedding
>6000	Extremely Wide	-
2000-6000	Very Wide	Very Thick
600-2000	Wide	Thick
200-600	Moderate	Medium
60-200	Close	Thin
20-60	Very Close	Very Thin
<20	Extremely Close	Laminated
<6	-	Thinly Laminated

Terminology describing rock strength:

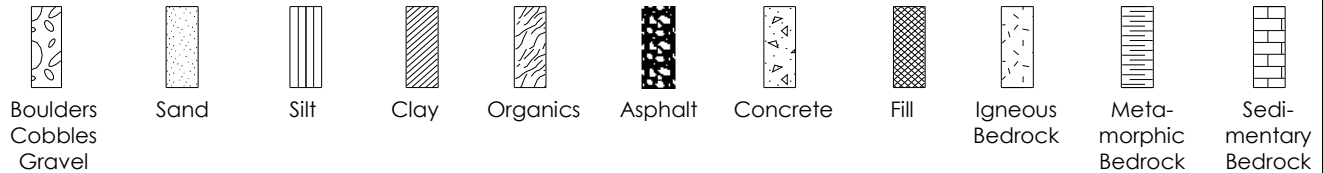
Strength Classification	Grade	Unconfined Compressive Strength (MPa)
Extremely Weak	R0	<1
Very Weak	R1	1 – 5
Weak	R2	5 – 25
Medium Strong	R3	25 – 50
Strong	R4	50 – 100
Very Strong	R5	100 – 250
Extremely Strong	R6	>250

Terminology describing rock weathering:

Term	Symbol	Description
Fresh	W1	No visible signs of rock weathering. Slight discoloration along major discontinuities
Slightly	W2	Discoloration indicates weathering of rock on discontinuity surfaces. All the rock material may be discolored.
Moderately	W3	Less than half the rock is decomposed and/or disintegrated into soil.
Highly	W4	More than half the rock is decomposed and/or disintegrated into soil.
Completely	W5	All the rock material is decomposed and/or disintegrated into soil. The original mass structure is still largely intact.
Residual Soil	W6	All the rock converted to soil. Structure and fabric destroyed.

STRATA PLOT

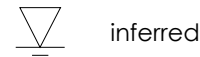
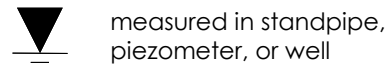
Strata plots symbolize the soil or bedrock description. They are combinations of the following basic symbols. The dimensions within the strata symbols are not indicative of the particle size, layer thickness, etc.



SAMPLE TYPE

SS	Split spoon sample (obtained by performing the Standard Penetration Test)
ST	Shelby tube or thin wall tube
DP	Direct-Push sample (small diameter tube sampler hydraulically advanced)
PS	Piston sample
BS	Bulk sample
HQ, NQ, BQ, etc.	Rock core samples obtained with the use of standard size diamond coring bits.

WATER LEVEL MEASUREMENT



RECOVERY

For soil samples, the recovery is recorded as the length of the soil sample recovered. For rock core, recovery is defined as the total cumulative length of all core recovered in the core barrel divided by the length drilled and is recorded as a percentage on a per run basis.

N-VALUE

Numbers in this column are the field results of the Standard Penetration Test: the number of blows of a 140 pound (63.5 kg) hammer falling 30 inches (760 mm), required to drive a 2 inch (50.8 mm) O.D. split spoon sampler one foot (300 mm) into the soil. In accordance with ASTM D1586, the N-Value equals the sum of the number of blows (N) required to drive the sampler over the interval of 6 to 18 in. (150 to 450 mm). However, when a 24 in. (610 mm) sampler is used, the number of blows (N) required to drive the sampler over the interval of 12 to 24 in. (300 to 610 mm) may be reported if this value is lower. For split spoon samples where insufficient penetration was achieved and N-Values cannot be presented, the number of blows are reported over sampler penetration in millimetres (e.g. 50/75). Some design methods make use of N-values corrected for various factors such as overburden pressure, energy ratio, borehole diameter, etc. No corrections have been applied to the N-values presented on the log.

DYNAMIC CONE PENETRATION TEST (DCPT)

Dynamic cone penetration tests are performed using a standard 60 degree apex cone connected to 'A' size drill rods with the same standard fall height and weight as the Standard Penetration Test. The DCPT value is the number of blows of the hammer required to drive the cone one foot (300 mm) into the soil. The DCPT is used as a probe to assess soil variability.

OTHER TESTS

S	Sieve analysis
H	Hydrometer analysis
k	Laboratory permeability
γ	Unit weight
G_s	Specific gravity of soil particles
CD	Consolidated drained triaxial
CU	Consolidated undrained triaxial with pore pressure measurements
UU	Unconsolidated undrained triaxial
DS	Direct Shear
C	Consolidation
Q_u	Unconfined compression
I_p	Point Load Index (I_p on Borehole Record equals $I_p(50)$ in which the index is corrected to a reference diameter of 50 mm)

	Single packer permeability test; test interval from depth shown to bottom of borehole
	Double packer permeability test; test interval as indicated
	Falling head permeability test using casing
	Falling head permeability test using well point or piezometer

C.2 BOREHOLE RECORDS (BH21-01 TO BH21-12)





DRILLHOLE RECORD

BH21-01

PAGE 1 of 2

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 111.272 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 10-19-21 to 10-22-21

WATER LEVEL 3.67m 1-24-22

INCLIN. / AZ. -60 / 170

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	111.27	OVERBURDEN											
4	107.57												
5		Fair to good quality, moderately to slightly weathered, medium grained, massive texture, light grey, GREYWACKE			1 HQ	100	82	82	5	0			
6													
7	105.49				2 HQ	94	79	70	4	0			
8	104.98	Fair quality, slightly weathered, fine grained, massive texture, dark grey, ARGILITE											
9	104.54	Fair to good quality, slightly weathered, medium grained, massive texture, light grey, GREYWACKE											
10	104.00	Good quality, fresh, fine grained, massive texture, dark grey, ARGILITE			3 HQ	87	83	82	4	0	1.40x10 ⁶		
11		Good quality, slightly weathered to fresh, medium grained, massive texture, light grey, GREYWACKE											
12	100.73				4 HQ	90	87	80	4	0			
13		Good quality, slightly weathered to fresh, fine grained, massive texture, dark grey, ARGILITE											
14	98.91												
15		Fair to excellent quality, fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with thin to very thin intermittent lenses of ARGILITE			5 HQ	96	90	84	3	0			
16													
17													
18					6 HQ	100	93	84	7	0	2.90x10 ⁶		
19													
20													
21					7 HQ	99	97	94	3	0			
22													
23													
24					8 HQ	100	95	93	3	0			
25													
26													
27					9 HQ	97	80	62	7	0	4.70x10 ⁶		
28													
29	86.35												
30		Fair to good quality, fresh, medium grained, massive texture, light grey, GREYWACKE			10 HQ	93	85	70	8	0			
31													
32													
33													
34		- interpreted possible fault/shear zone from 33.0 m to 33.7 m.			11 HQ	96	73	58	10	0	5.00x10 ⁶		
35													

Logged By: _____
Reviewed By: _____



DRILLHOLE RECORD

BH21-01

CLIENT Atlantic Mining NS Inc.PROJECT No. 121619250.5500PROJECT Geotechnical Investigation - Touquoy In-Pit DisposalMETHOD Wash BoreLOCATION Middle Musquodobit, NSELEVATION: 111.272 mDATUM GeodeticDATES DRILLED (mm-dd-yy) 10-19-21 to 10-22-21WATER LEVEL 3.67m 1-24-22INCLIN. / AZ. -60 / 170

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
35		Fair to good quality, fresh, medium grained, massive texture, light grey, GREYWACKE (<i>continued...</i>)			12 HQ		83	78	74	4	0	5.00x10 ⁹	
36													
37													
38		Good to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with thin to very thin intermittent lenses of ARGILITE			13 HQ	BC	98	91	85	3	0	4.10x10 ⁹	
39													
40													
41													
42													
43													
44	73.36												
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61	58.45												
62		End of Borehole											
63													
64													
65													
66													
67													
68													
69													
70													

Logged By: _____
 Reviewed By: _____



DRILLHOLE RECORD

BH21-02

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 109.36 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 10-24-21 to 10-30-21

WATER LEVEL 11.67m 1-24-22

INCLIN. / AZ. -60 / 170

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	109.36	OVERBURDEN											
6	104.48	Poor quality, slightly weathered, fine grained, foliated texture, light grey, GREYWACKE			1 BC								
7					1 HQ	68	34	26	4				
8					BC				4				
9					2 BC				7				
10					2 HQ	70	56	40	6				
11					BC				5				
12					3 BC				9				
13					3 HQ	84	67	57	8			5.60x10 ⁻⁸	
14					BC				13				
15					4 HQ	93	59	37	6				
16					BC				4				
17		- interpreted possible fault/shear zone from 16.8 m to 21.4 m.			5 BC				10				
18		- at 17.0 m (0.05 m thick quartz vein noted).			5 HQ	80	46	26	12				
19		- at 17.1 m (0.05 m thick quartz vein noted).			BC				8				
21	91.07	Poor to good quality, slightly weathered to fresh, medium grained, massive texture, light grey, GREYWACKE			6 BC				6				
22					6 HQ	92	66	50	9			4.30x10 ⁻⁸	
23					BC				4				
24		- at 23.2 m (0.25 m thick quartz vein noted).			7 HQ	95	88	79	2				
25					BC				10				
26					8 HQ	92	56	42	8				
27					BC				6				
28					9 HQ	99	84	72	6			3.90x10 ⁻⁸	
29					BC				3				
30					10 HQ	96	88	84	4				
31					BC				4				
32					10 HQ	100	84	77	4			2.30x10 ⁻⁸	
33					BC				4				
34					10 HQ	96	88	84	4				
35					BC				4				

Logged By: _____
Reviewed By: _____

CLIENT Atlantic Mining NS Inc.

 PROJECT No. 121619250.5500

 PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

 METHOD Wash Bore

 LOCATION Middle Musquodobit, NS

 ELEVATION: 109.36 m

 DATUM Geodetic

 DATES DRILLED (mm-dd-yy) 10-24-21 to 10-30-21

 WATER LEVEL 11.67m 1-24-22

 INCLIN. / AZ. -60 / 170

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
35													
36		Poor to good quality, slightly weathered to fresh, medium grained, massive texture, light grey, GREYWACKE (<i>continued...</i>)			11 HQ	BC	100	84	77	4			
37	76.96												
38		Poor to good quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE			12 HQ		97	92	90	4			2.30x10 ⁻⁸
39													
40													
41													
42					13 HQ		79	63	50	4			
43		- interpreted possible fault/shear zone or quartz vein with localized shearing from 42.9 m to 44.0 m.				BC							
44						BC							
45					14 HQ	BC	91	78	60	8			
46													
47		- at 46.5 m (0.1 m thick quartz vein noted).											
48					15 HQ	BC	95	80	70	7			9.00x10 ⁻⁸
49													
50	66.40					BC							
51		Very poor to good quality, slightly weathered to fresh, medium grained, massive texture, light grey, GREYWACKE			16 HQ	BC	91	81	73	9			
52													
53													
54					17 HQ		90	70	57	10			
55													
56						BC							
57					18 HQ	BC	70	46	25	10			4.80x10 ⁻⁸
58													
59						BC							
60					19 HQ	BC	97	90	83	9			
61	56.00												
62		End of Borehole											
63													
64													
65													
66													
67													
68													
69													
70													

 Logged By: _____
 Reviewed By: _____

CLIENT Atlantic Mining NS Inc.

 PROJECT No. 121619250.5500

 PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

 METHOD Wash Bore

 LOCATION Middle Musquodobit, NS

 ELEVATION: 113.234 m

 DATUM Geodetic

 DATES DRILLED (mm-dd-yy) 11-6-21 to 11-15-21

 WATER LEVEL 8.59m 1-24-22

 INCLIN. / AZ. -90 / N/A

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	113.23	OVERBURDEN											
3	110.44	Poor quality, slightly weathered, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermitent lenses of ARGILITE			1 HQ	95	77	69	8	0		Packer Testing Not Completed from 3.0 m to 17.0 m Depth.	
6	106.87	Possible UNDERGROUND OPENING.			2 HQ	100	91	90	8	0			
8	105.17	Excellent quality, slightly weathered, medium grained, massive texture, light grey, GREYWACKE			3 HQ								
11	102.17	Fair to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermitent lenses of ARGILITE			4 HQ	93	93	93	3	0			
12					5 HQ	95	95	93	2	0			
16					6 HQ	100	96	95	4	1			
18					7 HQ	99	99	99	2	2			
22					8 HQ	97	94	93	2	1	1.10x10 ⁷		
24					9 HQ	95	76	66	10	3			
26		- at 26.0 m (0.05 m thick quartz vein noted).			10 HQ	91	80	73	6	5			
31					11 HQ	95	88	84	5	3	4.60x10 ⁸		
33	81.17	Poor to good quality, fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE			12 HQ	82	63	47	15	14			

 Logged By: _____
 Reviewed By: _____

CLIENT Atlantic Mining NS Inc. PROJECT No. 121619250.5500
 PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal METHOD Wash Bore
 LOCATION Middle Musquodobit, NS ELEVATION: 113.234 m DATUM Geodetic
 DATES DRILLED (mm-dd-yy) 11-6-21 to 11-15-21 WATER LEVEL 8.59m 1-24-22 INCLIN. / AZ. -90 / N/A

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS		
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.			
							TOTAL CORE %	SOLID CORE %							
35		Poor to good quality, fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE (<i>continued...</i>)			13 HQ	95	86	81	4	0					
36															
37															
38		Good to excellent quality, fresh, medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE - at 45.6 m (0.20 m thick quartz vein noted).			14 HQ	95	82	70	5	0	2.00x10 ⁻⁸				
39															
40															
41															
42															
43		Good to excellent quality, fresh, medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE - at 49.2 m (0.05 m thick quartz vein noted). - at 49.4 m (0.05 m thick quartz vein noted).			15 HQ	96	87	85	2	0					
44	69.18														
45															
46															
47								BC							
48								17 HQ	93	88	88	2	0	2.70x10 ⁻⁹	
49															
50		Good quality, slightly weathered to fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE - at 62.2 m (0.05 m thick quartz vein noted).			18 HQ	99	99	99	0	0					
51															
52															
53															
54															
55		Fair to excellent quality, fresh, medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE - at 65.2 m (0.1 m thick quartz vein noted). - at 65.2 m (0.1 m thick quartz vein noted).			19 HQ	99	99	99	0	0					
56															
57															
58		Fair to excellent quality, fresh, medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE - at 65.2 m (0.1 m thick quartz vein noted). - at 65.2 m (0.1 m thick quartz vein noted).			20 HQ	97	90	85	3	0	7.60x10 ⁻⁹				
59	54.18														
60															
61		Fair to excellent quality, fresh, medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE - at 65.2 m (0.1 m thick quartz vein noted). - at 65.2 m (0.1 m thick quartz vein noted).			21 HQ	100	91	84	1	0					
62															
63															
64															
65	48.18	Fair to excellent quality, fresh, medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE - at 65.2 m (0.1 m thick quartz vein noted). - at 65.2 m (0.1 m thick quartz vein noted).			22 HQ	94	85	82	0	0					
66															
67															
68		Fair to excellent quality, fresh, medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE - at 65.2 m (0.1 m thick quartz vein noted). - at 65.2 m (0.1 m thick quartz vein noted).			23 HQ	97	79	73	7	0	4.70x10 ⁻⁹				
69															
70					24 HQ	100	100	100	2	0					

Logged By: _____
 Reviewed By: _____



DRILLHOLE RECORD

BH21-03

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 113.234 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 11-6-21 to 11-15-21

WATER LEVEL 8.59m 1-24-22

INCLIN. / AZ. -90 / N/A

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS								WELL CONSTRUCTION DETAILS
					RUN NO.	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.		
						LOST / BROKEN CORE	TOTAL CORE %					SOLID CORE %	
70		Fair to excellent quality, fresh, medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE <i>(continued...)</i> - at 77.5 m (0.05 m thick quartz vein noted).			24		100	100	100	0			4.70x10 ⁻⁹
71					25		99	94	93	0			
72					26		95	92	91	2			5.00x10 ⁻⁹
73					27		99	93	92	2			
74					28		97	97	97	0			
75					29		98	95	95	3			1.50x10 ⁻⁹
76	30.18	Excellent quality, slightly weathered to fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE - at 83.9 m (0.1 m thick quartz vein noted).			30		97	91	91	2			
77					31		99	92	90	6			
78		Good to excellent quality, slightly weathered to fresh, medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE - at 88.4 m (0.05 m thick quartz vein noted).			32		98	97	97	2			4.60x10 ⁻⁹
79					33		92	88	87	0			
80		Fair to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE - at 96.8 m (0.6 m thick quartz vein noted).			34		99	96	96	0			
81					35		100	100	100	1			1.50x10 ⁻⁹
82					36		100	98	98	0			

Logged By: _____
Reviewed By: _____



DRILLHOLE RECORD

BH21-03

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 113.234 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 11-6-21 to 11-15-21

WATER LEVEL 8.59m 1-24-22

INCLIN. / AZ. -90 / N/A

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
-105		Fair to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermittent lenses of ARGILITE (<i>continued...</i>) - at 106.9 m (0.05 m thick quartz vein noted). - at 106.9 m (0.06 m thick quartz vein noted). - at 111.6 m (0.16 m thick quartz vein noted).	[Strata Plot]		36		100	98	98	0	0	1.50x10 ⁹	
-106	37					100	90	90	4	3	0	2.80x10 ⁹	
-107	38					88	77	74	5	4	0		
-108	39				BC	95	71	62	10	8	0		
-109	40					100	96	96	3	5	0		
-110	41					95	95	95	3				
-111		End of Borehole											
-112													
-113													
-114													
-115													
-116													
-117													
-118													
-119													
-120	-6.91												
-121													
-122													
-123													
-124													
-125													
-126													
-127													
-128													
-129													
-130													
-131													
-132													
-133													
-134													
-135													
-136													
-137													
-138													
-139													
-140													

Logged By: _____
Reviewed By: _____

CLIENT Atlantic Mining NS Inc.

 PROJECT No. 121619250.5500

 PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

 METHOD Wash Bore

 LOCATION Middle Musquodobit, NS

 ELEVATION: 104.966 m

 DATUM Geodetic

 DATES DRILLED (mm-dd-yy) 9-30-21 to 10-6-21

 WATER LEVEL 0.1m 1-24-22

 INCLIN. / AZ. -60 / 40

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	104.97	OVERBURDEN											
102.10		Very poor to good quality, slightly weathered to fresh, fine grained, massive texture, medium strong to strong, occasionally laminated to medium bands of quartz and shale, grey, ARGILITE											
4					1 HQ	BC	100	35	26	25	0		
6					2 HQ		65	33	17	13	0		
10					3 HQ		93	77	68	17	0	4.10x10 ⁻⁸	
12					4 HQ	BC	79	49	36	25	0		
16		- at 16.4 m (0.60 m thick quartz vein noted).			5 HQ		76	45	30	18	0		
18		- at 18.1 m (0.10 m thick quartz vein noted).			6 HQ		93	65	42	7	0	4.30x10 ⁻⁹	
20		- at 19.2 m (0.05 m thick quartz vein noted).			7 HQ	BC	95	47	33	25	0		
22		- at 21.9 m (0.05 m thick quartz vein noted).			8 HQ		90	66	38	12	0		
28					9 HQ		41	32	24	25	0	6.10x10 ⁻⁹	
32					10 HQ	BC	97	45	30	11	0		
34					11 HQ	BC	95	66	55	15	0	4.00x10 ⁻⁹	

 Logged By: _____
 Reviewed By: _____

CLIENT Atlantic Mining NS Inc.

 PROJECT No. 121619250.5500

 PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

 METHOD Wash Bore

 LOCATION Middle Musquodobit, NS

 ELEVATION: 104.966 m

 DATUM Geodetic

 DATES DRILLED (mm-dd-yy) 9-30-21 to 10-6-21

 WATER LEVEL 0.1m 1-24-22

 INCLIN. / AZ. -60 / 40

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS								WELL CONSTRUCTION DETAILS		
					RUN NO.	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.				
						LOST / BROKEN CORE	TOTAL CORE %					SOLID CORE %			
35		Very poor to good quality, slightly weathered to fresh, fine grained, massive texture, medium strong to strong, occasionally laminated to medium bands of quartz and shale, grey, ARGILITE (continued...) - broken core noted from 35.3 m to 38.3 m possibly a result of nearby underground workings.			12 HQ	71	48	35	15	0	4.00x10 ⁻⁹				
36															
37															
38															
39															
40															
41															
42	68.15														
43					Poor to good quality, fresh, fine to medium grained, massive to foliated texture, medium strong to strong, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermittent lenses of ARGILITE - at 43.4 m (0.4 m thick quartz vein noted). - at 49.5 m (0.1 m thick quartz vein noted).			14 HQ	97	90		85	5	0	3.20x10 ⁻⁹
44															
45															
46															
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50															
51															
52															
53															
54															
55															
56															
57															
58															
59															
60	52.52														
61		End of Borehole													
62															
63															
64															
65															
66															
67															
68															
69															
70															

 Logged By: _____
 Reviewed By: _____

CLIENT Atlantic Mining NS Inc.

 PROJECT No. 121619250.5500

 PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

 METHOD Wash Bore

 LOCATION Middle Musquodobit, NS

 ELEVATION: 108.773 m

 DATUM Geodetic

 DATES DRILLED (mm-dd-yy) 11-1-21 to 11-3-21

 WATER LEVEL 2.84m 1-24-22

 INCLIN. / AZ. -60 / 100

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	108.77	OVERBURDEN											
6	103.82	Poor quality, slightly weathered to fresh, fine grained, foliated texture, dark grey, SHALE with very thin lenses of ARGILITE - drilling sub-parallel to foliation/bedding. - interpreted possible fault/shear zone from 10.1 m to 11.0 m.			1 HQ	BC	100	55	40	25			
7						BC				25			
8					2 HQ	BC	68	48	41	10			
9						BC				10			
10						BC				10			
11					3 HQ	BC	85	55	43	20			
12						BC				10		1.10x10 ⁻⁸	
13	97.81	Poor to good quality, moderately weathered to fresh, fine grained, massive to foliated texture, occasionally laminated to medium bands of quartz and shale, dark grey, ARGILITE			4 HQ	BC	95	90	89	4			
14						BC				4			
15						BC				5			
16						BC				5			
17					5 HQ		95	71	63	10			
18										6			
19					6 HQ		91	72	56	7		6.80x10 ⁻⁹	
20										8			
21										7			
22		- at 21.9 m (0.25 m thick quartz vein noted).			7 HQ	BC	83	45	32	20			
23						BC				10			
24					8 HQ		97	55	50	12			
25										7			
26										8			
27					9 HQ		94	76	65	7		5.00x10 ⁻⁹	
28										8			
29										7			
30										9			
31					10 HQ		95	75	62	4			
32										5			
33										5			
34					11 HQ		99	92	90	2		3.90x10 ⁻⁹	
35													

 Logged By: _____
 Reviewed By: _____



DRILLHOLE RECORD

BH21-05

CLIENT Atlantic Mining NS Inc.PROJECT No. 121619250.5500PROJECT Geotechnical Investigation - Touquoy In-Pit DisposalMETHOD Wash BoreLOCATION Middle Musquodobit, NSELEVATION: 108.773 mDATUM GeodeticDATES DRILLED (mm-dd-yy) 11-1-21 to 11-3-21WATER LEVEL 2.84m 1-24-22INCLIN. / AZ. -60 / 100

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
35		Poor to good quality, moderately weathered to fresh, fine grained, massive to foliated texture, occasionally laminated to medium bands of quartz and shale, dark grey, ARGILITE (<i>continued...</i>)			11		99	92	90	4	0		
36					12		85	76	70	3	0		3.90x10 ⁹
37					13		86	55	40	6	0		
38					14		89	69	62	2	0		
39					15		92	86	84	7	0		3.20x10 ⁹
40					16		87	76	73	4	0		
41					17		96	90	89	2	0		
42					18		97	88	85	4	0		3.70x10 ⁹
43					19		93	90	90	2	0		
44	55.57				End of Borehole								
45													
46													
47													
48													
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50													
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DRILLHOLE RECORD

BH21-06

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 120.461 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 10-7-21 to 10-9-21

WATER LEVEL 0.26m 1-24-22

INCLIN. / AZ. -90 / N/A

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	120.46	OVERBURDEN											
5	115.46	Poor to fair quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACK with thinly laminated to laminated lenses of ARGILITE		▼	1 HQ		73	65	53	8	0		
6					2 HQ		90	82	73	6	0		
7					3 HQ	BC	93	76	70	20	0	1.10x10 ⁻⁸	
8					4 HQ	BC	97	66	51	10	0		
9	104.06				5 HQ		96	78	70	15	0		
10	102.96				6 HQ		92	70	58	11	0	5.70x10 ⁻⁸	
11	102.36				7 HQ	BC	93	72	60	10	0		
12	101.56				8 HQ		90	82	80	5	0		
13					9 HQ	BC	96	75	67	10	0	4.50x10 ⁻⁹	
14					10 HQ		97	74	66	11	0		

Logged By: _____
Reviewed By: _____



DRILLHOLE RECORD

BH21-06

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 120.461 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 10-7-21 to 10-9-21

WATER LEVEL 0.26m 1-24-22

INCLIN. / AZ. -90 / N/A

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS								WELL CONSTRUCTION DETAILS
					RUN NO.	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.		
						LOST / BROKEN CORE	TOTAL CORE %					SOLID CORE %	
35		Poor to good quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermittent lenses of ARGILITE (<i>continued...</i>) - interpreted possible fault zone from 36.1 m to 36.4 m.			11 HQ		85	79	85	3	0		
36				12 HQ		97	85	79	11	0	6.90x10 ⁻⁹		
37					13 HQ		75	71	69	10	0		
38					14 HQ	BC	83	52	40	7	0		
39					15 HQ	BC	100	83	77	7	0	9.40x10 ⁻⁹	
40	70.41		Fair to good quality, slightly weathered to fresh, medium grained, massive texture, light grey, GREYWACKE		16 HQ		93	84	77	6	0		
41					17 HQ		100	84	90	5	0		
42					18 HQ		100	91	87	2	0	3.20x10 ⁻⁹	
43	60.41				19 HQ		100	92	90	3	0		
44		End of Borehole											
45													
46													
47													
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69													
70													

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Reviewed By: _____



DRILLHOLE RECORD

BH21-07

CLIENT Atlantic Mining NS Inc. PROJECT No. 121619250.5500
 PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal METHOD Wash Bore
 LOCATION Middle Musquodobit, NS ELEVATION: 118.93 m DATUM Geodetic
 DATES DRILLED (mm-dd-yy) 9-25-21 to 9-27-21 WATER LEVEL N/A Backfilled INCLIN. / AZ. -60 / 30

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	118.93	OVERBURDEN											
8	112.18	Poor to good quality, moderately weathered to fresh, fine grained, massive to foliated texture, occasionally laminated to medium bands of quartz and shale, dark grey, ARGILITE											
9					1 HQ	BC	40	26	13	25	0		
10										25			
11					2 HQ	BC	67	12	0	25	0		
12										25			
13										25			
14		- at 13.8 m clay seam noted (50 mm).								25			1.20x10 ⁻⁷
15					3 HQ	BC	75	20	7	25	0		
16										20			
17					4 HQ	BC	73	24	10	25	0		
18										10			
19										25			
20										10			
21					5 HQ	BC	77	49	40	20	0		
22										16			3.90x10 ⁻⁸
23										10			
24					6 HQ	BC	83	52	47	10	0		
25										4			
26										10			
27		- interpreted possible fault/shear zone from 26.2 m to 26.4 m.			7 HQ		73	38	27	6	0		
28										6			
29					8 HQ	BC	62	19	13	25	0		
30										13			
31										20			3.60x10 ⁻⁸
32										15			
33					9 HQ	BC	66	37	28	25	0		
34										10			
35										4			

Logged By: _____
 Reviewed By: _____



DRILLHOLE RECORD

BH21-07

CLIENT Atlantic Mining NS Inc.PROJECT No. 121619250.5500PROJECT Geotechnical Investigation - Touquoy In-Pit DisposalMETHOD Wash BoreLOCATION Middle Musquodobit, NSELEVATION: 118.93 mDATUM GeodeticDATES DRILLED (mm-dd-yy) 9-25-21 to 9-27-21WATER LEVEL N/A BackfilledINCLIN. / AZ. -60 / 30

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
35		Poor to good quality, moderately weathered to fresh, fine grained, massive to foliated texture, occasionally laminated to medium bands of quartz and shale, dark grey, ARGILITE (<i>continued...</i>) - interpreted possible fault/shear zone from 35.2 m to 35.5 m. - at 35.8 m clay seam noted (50 mm).			10 HQ								
36						90	66	50	15	0			
37						90	66	50	9	0			
38													
39													
40	83.60												
41		End of Borehole											
42													
43													
44													
45													
46													
47													
48													
49													
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Logged By: _____
 Reviewed By: _____

CLIENT Atlantic Mining NS Inc.

 PROJECT No. 121619250.5500

 PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

 METHOD Wash Bore

 LOCATION Middle Musquodobit, NS

 ELEVATION: 118.027 m

 DATUM Geodetic

 DATES DRILLED (mm-dd-yy) 10-17-21 to 10-18-21

 WATER LEVEL 1.38m 1-24-22

 INCLIN. / AZ. -60 / 270

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	118.03	OVERBURDEN											
1													
2													
3	115.81	Poor to good quality, moderately weathered to fresh, fine grained, massive texture, dark grey, ARGILITE			1 HQ		20	7	0	10			
4					BC					10			
5										6			
6		- from 5.7 m to 7.1 m highly fractured rock.			2 HQ		82	52	30	8			
7					BC					8			
8										12			
9					3 HQ		97	70	60	10		8.70x10 ⁻⁸	
10	108.80									8			
11		Poor to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermittent lenses of ARGILITE			4 HQ		84	82	79	2			
12										2			
13										2			
14										6			
15					5 HQ		100	95	93	5			
16		- from 15.4 m to 16.0 m increase in grain size.								4			
17										5			
18					6 HQ		100	88	80	6		8.70x10 ⁻⁸	
19										4			
20										3			
21					7 HQ		97	76	47	4			
22										3			
23										3			
24					8 HQ		97	90	82	4			
25										3			
26										4			
27					9 HQ		87	77	69	5		2.10x10 ⁻⁸	
28										5			
29		- interpreted possible fault/shear zone from 28.1 m to 28.3 m.								9			
30					10 HQ		93	83	70	8			
31		- interpreted possible fault/shear zone from 30.1 m to 30.3 m.								5			
32										5			
33					11 HQ		95	82	73	6		7.30x10 ⁻⁸	
34										3			
35					12		93	84	79				

 Logged By: _____
 Reviewed By: _____



DRILLHOLE RECORD

BH21-08

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 118.027 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 10-17-21 to 10-18-21

WATER LEVEL 1.38m 1-24-22

INCLIN. / AZ. -60 / 270

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	
							TOTAL CORE %	SOLID CORE %					
35		Poor to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermittent lenses of ARGILITE (<i>continued...</i>)			HQ	80	80	80	80	5	15	10 ⁻⁸	
36					12	HQ	93	84	79	4	0	10 ⁻⁷	
37					13	HQ	90	69	52	6	0	7.30x10 ⁻⁹	
38													
39	82.96												
40		End of Borehole											
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													

Logged By: _____
Reviewed By: _____



DRILLHOLE RECORD

BH21-09

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 112.001 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 11-16-21 to 11-26-21

WATER LEVEL 19.57m 1-24-22

INCLIN. / AZ. -60 / 45

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS	
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.		
							TOTAL CORE %	SOLID CORE %						
0	112.00	OVERBURDEN												
8	105.40	Very poor to fair quality, slightly weathered to fresh, fine grained, massive texture, occasional sulphide inclusions, greywacke laminations and quartz veins, dark grey, ARGILITE - at 7.6 m (0.9 m thick quartz vein noted). - interpreted possible fault/shear zone from 9.0 m to 13.0 m.		▼	1 HQ	BC	57	33	25	15	30	30		
9					BC									
10					BC									
11					BC									
12					2 HQ	BC	47	19	11	10	8			
13					BC									
14					BC									
15					3 HQ	BC	90	58	43	10	6		1.40x10 ⁻⁷	
16					BC									
17		BC												
18		4 HQ	BC	69	37	33	10	8						
19		BC												
20		BC												
21		5 HQ	BC	77	64	57	5	8						
22		BC												
23		BC												
24		6 HQ		83	63	57	7	10		9.70x10 ⁻⁹				
25		BC												
26		BC												
27		7 HQ		85	76	73	5	3						
28		BC												
29	87.22	Very poor to fair quality, fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE		▼	8 HQ	BC	63	29	20	10	10			
30					BC									
31	85.07	Very poor to poor quality, slightly weathered, fine grained, massive texture, occasional sulphide inclusions, occasional greywacke laminations and quartz veins, dark grey, ARGILITE		▼	9 HQ	BC	73	34	26	15	15			
32					BC								4.40x10 ⁻⁵	
33					BC									
34														
35														

Logged By: _____
Reviewed By: _____

CLIENT Atlantic Mining NS Inc.

 PROJECT No. 121619250.5500

 PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

 METHOD Wash Bore

 LOCATION Middle Musquodobit, NS

 ELEVATION: 112.001 m

 DATUM Geodetic

 DATES DRILLED (mm-dd-yy) 11-16-21 to 11-26-21

 WATER LEVEL 19.57m 1-24-22

 INCLIN. / AZ. -60 / 45

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	
							TOTAL CORE %	SOLID CORE %					
35		Very poor to poor quality, slightly weathered, fine grained, massive texture, occasional sulphide inclusions, occasional greywacke laminations and quartz veins, dark grey, ARGILITE <i>(continued...)</i> - at 35.7 m (0.25 m thick quartz vein noted). - broken core noted from 36.0 m to 37.4 m possibly a result of nearby underground workings. - broken core noted from 39.6 m to 44.4 m possibly a result of nearby underground workings. - at 41.2 m (0.2 m thick quartz vein noted). Poor to fair quality, fresh, fine grained, massive texture, occasional sulphide inclusions, occasional greywacke laminations and quartz veins, dark grey, ARGILITE - at 41.9 m (0.4 m thick quartz vein noted). - at 41.9 m (0.1 m thick quartz vein noted). - at 47.0 m (0.3 m thick quartz vein noted). - at 48.2 m (0.6 m thick quartz vein noted). - at 50.9 m (0.2 m thick quartz vein noted). - at 50.9 m (0.05 m thick quartz vein noted). - at 52.4 m (0.4 m thick quartz vein noted). - broken core noted from 53.9 m to 54.6 m possibly a result of nearby underground workings.											
36			10 HQ	BC	70	39	22	10			4.40x10 ⁹		
37			11 HQ	BC	70	41	27	10					
38			12 HQ	BC	68	37	29	10			6.10x10 ⁹		
39			13 HQ	BC	79	44	40	15					
40			14 HQ	BC	98	76	69	6					
41	76.30		15 HQ	BC	87	61	44	8					
42			16 HQ	BC	87	50	37	10					
43			17 HQ	BC	77	51	44	6					
44			18 HQ	BC	77	47	40	10			3.30x10 ⁹		
45		19 HQ		95	86	81	4						
46		20 HQ	BC	78	50	35	10			2.30x10 ⁹			
47		21 HQ	BC	89	76	70	8						
48													
49													
50													
51													
52													
53													
54													
55													
56													
57	62.81	Poor quality, fresh, fine grained, massive texture, occasional sulphide inclusions, occasional greywacke laminations, dark grey, ARGILITE - at 56.8 m (3.2 m thick quartz vein noted).	17 HQ	BC	77	51	44	6					
58			18 HQ	BC	77	47	40	10			3.30x10 ⁹		
59	59.52	Poor to good quality, fresh, fine grained, massive texture, QUARTZ VEIN	19 HQ		95	86	81	4					
60			20 HQ	BC	78	50	35	10			2.30x10 ⁹		
61		Poor to fair quality, fresh, fine grained, massive texture, occasional sulphide inclusions, occasional greywacke laminations, dark grey, ARGILITE	21 HQ	BC	89	76	70	8					
62			22 HQ										
63													
64													
65	55.31												
66													
67													
68													
69													
70													

NOTE: PERMEABILITY >10-4 FOR THIS INTERVAL. FLOW RATE HIGH (> 50 L/MIN) AND THEREFORE COULD NOT ACHIEVE PRESSURE FOR TESTING IN HOLE.

TEST INTERVAL IN AREA OF UNDERGROUND WORKINGS

 Logged By: _____
 Reviewed By: _____



DRILLHOLE RECORD

BH21-09

CLIENT Atlantic Mining NS Inc.PROJECT No. 121619250.5500PROJECT Geotechnical Investigation - Touquoy In-Pit DisposalMETHOD Wash BoreLOCATION Middle Musquodobit, NSELEVATION: 112.001 mDATUM GeodeticDATES DRILLED (mm-dd-yy) 11-16-21 to 11-26-21WATER LEVEL 19.57m 1-24-22INCLIN. / AZ. -60 / 45

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS	
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.		
							TOTAL CORE %	SOLID CORE %						
70		<p>Poor to fair quality, fresh, fine grained, massive texture, occasional sulphide inclusions, occasional greywacke laminations, dark grey, ARGILITE (<i>continued...</i>)</p> <p>- at 70.0 m (0.6 m thick quartz vein noted).</p> <p>- broken core noted from 82.9 m to 83.1 m possibly a result of nearby underground workings.</p> <p>- at 87.8 m (0.2 m thick quartz vein noted).</p> <p>Very poor to fair quality, slightly weathered to fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE</p>			21	BC	89	76	70	4				
71						22	HQ	BC	88	65	58	8		2.30x10 ⁹
72														
73														
74														
75														
76														
77														
78														
79														
80														
81														
82														
83														
84														
85														
86														
87														
88	35.76													
89														
90														
91														
92														
93														
94														
95														
96														
97														
98														
99														
100														
101														
102														
103														
104														
105														

Logged By: _____
 Reviewed By: _____



DRILLHOLE RECORD

BH21-09

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 112.001 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 11-16-21 to 11-26-21

WATER LEVEL 19.57m 1-24-22

INCLIN. / AZ. -60 / 45

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS	
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.		
							TOTAL CORE %	SOLID CORE %						
-105		Very poor to fair quality, slightly weathered to fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE (<i>continued...</i>)			33	BC	78	15	5	15	0			
-106					HQ									
-107														
-108														2.70x10 ⁹
-109														
-110														
-111														
-112														
-113														
-114														
-115												1.00x10 ⁸		
-116														
-117														
-118														
-119														
-120														
-121	7.39	End of Borehole												
-122														
-123														
-124														
-125														
-126														
-127														
-128														
-129														
-130														
-131														
-132														
-133														
-134														
-135														
-136														
-137														
-138														
-139														
-140														

Logged By: _____
Reviewed By: _____



DRILLHOLE RECORD

BH21-10

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 110.311 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 9-27-21 to 9-28-21

WATER LEVEL 0m 1-24-22

INCLIN. / AZ. -60 / 360

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	110.31	OVERBURDEN											
3	107.78	Very poor to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermittent lenses of ARGILITE - interpreted possible fault/shear zone from 18.9 m to 19.2 m.											
4			1 HQ	BC	100	66	56	15					
5			2 HQ	BC	93	70	42	16					
6			3 HQ	BC	90	53	40	17			3.20x10 ⁻⁸		
7			4 HQ	BC	98	79	62	14					
8			5 HQ	BC	97	86	77	20					
9			6 HQ	BC	92	83	75	2			1.10x10 ⁻⁸		
10			7 HQ	BC	98	88	83	4					
11			8 HQ	BC	100	100	100	4					
12			9 HQ	BC	92	87	85	0			8.10x10 ⁻⁹		
13			10 HQ	BC	87	67	43	20					
14			11 HQ	BC	98	90	88	3			1.80x10 ⁻⁸		
15		12		93	89	83	5						

Logged By: _____
Reviewed By: _____



DRILLHOLE RECORD BH21-10

CLIENT Atlantic Mining NS Inc. PROJECT No. 121619250.5500
 PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal METHOD Wash Bore
 LOCATION Middle Musquodobit, NS ELEVATION: 110.311 m DATUM Geodetic
 DATES DRILLED (mm-dd-yy) 9-27-21 to 9-28-21 WATER LEVEL 0m 1-24-22 INCLIN. / AZ. -60 / 360

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS	
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.		
							TOTAL CORE %	SOLID CORE %						
35		Very poor to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermittent lenses of ARGILITE (<i>continued...</i>)			HQ									
36			12	BC	93	89	83	4	0					
37														
38														
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														
56														
57														
58														
59														
60	57.43													
61		End of Borehole												
62														
63														
64														
65														
66														
67														
68														
69														
70														

Logged By: _____
 Reviewed By: _____



DRILLHOLE RECORD

BH21-11

CLIENT Atlantic Mining NS Inc.PROJECT No. 121619250.5500PROJECT Geotechnical Investigation - Touquoy In-Pit DisposalMETHOD Wash BoreLOCATION Middle Musquodobit, NSELEVATION: 119.072 mDATUM GeodeticDATES DRILLED (mm-dd-yy) 10-10-21 to 10-12-21WATER LEVEL 0m 1-24-22INCLIN. / AZ. -60 / 45

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	119.07	OVERBURDEN											
5.5	114.32												
6.0		<p>Very poor to poor quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, medium grey to dark grey, occasional quartz/pyrite veins. ARGILITE with very thin to medium intermittent laminations of GREYWACKE</p> <p>- drilling sub-parallel to foliation/bedding.</p> <p>- at 13.2 m clay seam noted (50 mm).</p>			1	BC	63	0	0	25	0		
6.5							BC				25		
7.0							BC				25		
7.5							BC				25		
8.0							BC				25		
8.5							BC				25		
9.0							BC				25		
9.5							BC				25		
10.0							BC				25		
10.5							BC				25		
11.0							BC				25		
11.5						BC				25			
12.0						BC				25			
12.5						BC				25			
13.0						BC				25			
13.5						BC				25			
14.0						BC				25			
14.5						BC				25			
15.0						BC				25			
15.5						BC				25			
16.0						BC				25			
16.5						BC				25			
17.0						BC				25			
17.5						BC				25			
18.0						BC				25			
18.5						BC				25			
19.0						BC				25			
19.5						BC				25			
20.0						BC				25			
20.5						BC				25			
21.0						BC				25			
21.5						BC				25			
22.0						BC				25			
22.5						BC				25			
23.0						BC				25			
23.5						BC				25			
24.0						BC				25			
24.5						BC				25			
25.0						BC				25			
25.5						BC				25			
26.0						BC				25			
26.5						BC				25			
27.0						BC				25			
27.5						BC				25			
28.0						BC				25			
28.5						BC				25			
29.0						BC				25			
29.5						BC				25			
30.0						BC				25			
30.5						BC				25			
31.0						BC				25			
31.5						BC				25			
32.0						BC				25			
32.5						BC				25			
33.0						BC				25			
33.5						BC				25			
34.0						BC				25			
34.5						BC				25			
35.0						BC				25			

Logged By: _____
 Reviewed By: _____



DRILLHOLE RECORD

BH21-11

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 119.072 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 10-10-21 to 10-12-21

WATER LEVEL 0m 1-24-22

INCLIN. / AZ. -60 / 45

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS							
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.								
							TOTAL CORE %	SOLID CORE %												
35		Very poor to poor quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, medium grey to dark grey, occasional quartz/pyrite veins, ARGILITE with very thin to medium intermittent laminations of GREYWACKE - drilling sub-parallel to foliation/bedding. (continued...)			HQ															
36					HQ															
37					HQ	BC	93	57	48	6	10									
38					HQ															
39					HQ															
40					HQ	BC	95	59	50	4	10					4.40x10 ⁰				
41					HQ															
42					HQ															
43					HQ	BC	99	49	45	9	10									
44	81.46	Poor to fair quality, slightly weathered to fresh, fine grained, massive texture, dark grey, occasional quartz/pyrite veins, ARGILITE			HQ															
45					HQ		97	57	50	11	12									
46						HQ														
47						HQ	BC	97	70	60	12	12								
48						HQ														
49						HQ														
50						HQ	BC	98	50	36	9	13					5.00x10 ⁰			
51						HQ														
52						HQ	BC	98	61	50	13	11								
53					HQ															
54					HQ															
55					HQ	BC	98	61	50	9	13									
56					HQ															
57					HQ	BC	88	74	70	3	6									
58					HQ															
59					HQ	BC														
60					HQ															
61	65.91				HQ		92	59	47	4	12									
62		End of Borehole																		
63																				
64																				
65																				
66																				
67																				
68																				
69																				
70																				

Logged By: _____
Reviewed By: _____



DRILLHOLE RECORD

BH21-12

CLIENT Atlantic Mining NS Inc.

PROJECT No. 121619250.5500

PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal

METHOD Wash Bore

LOCATION Middle Musquodobit, NS

ELEVATION: 110.133 m

DATUM Geodetic

DATES DRILLED (mm-dd-yy) 10-22-21 to 10-24-21

WATER LEVEL 1.86m 1-24-22

INCLIN. / AZ. -90 / N/A

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.	
							TOTAL CORE %	SOLID CORE %					
0	110.13	OVERBURDEN											
3.5	106.49				BC								
4.5	105.07	Fair quality, slightly weathered, fine to medium grained, massive texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent laminations of ARGILITE			1 HQ		100	44	59	7	20	0	
6.5		Fair quality, fresh, fine grained, massive to foliated texture, occasionally laminated to medium bands of quartz and shale, dark grey, ARGILITE			2 HQ		100	80	75	8	11	0	
8.5	102.08	Poor to good quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent laminations of ARGILITE/SHALE			3 HQ		99	76	64	8	11	0	3.00x10 ⁻⁷
12.5					4 HQ		75	75	75	6	7	0	
15.5					5 HQ		87	71	57	10	7	0	
18.5					6 HQ		93	87	85	6	4	0	1.60x10 ⁻⁷
21.5					7 HQ		92	78	73	4	8	0	
24.5					8 HQ		90	57	46	13	12	0	
27.5					9 HQ		84	61	46	14	10	0	6.00x10 ⁻⁸
30.5					10 HQ		93	77	67	6	7	0	
33.5					11 HQ		79	62	50	5	2	0	5.50x10 ⁻⁸

Logged By: _____
Reviewed By: _____



DRILLHOLE RECORD

BH21-12

CLIENT Atlantic Mining NS Inc.PROJECT No. 121619250.5500PROJECT Geotechnical Investigation - Touquoy In-Pit DisposalMETHOD Wash BoreLOCATION Middle Musquodobit, NSELEVATION: 110.133 mDATUM GeodeticDATES DRILLED (mm-dd-yy) 10-22-21 to 10-24-21WATER LEVEL 1.86m 1-24-22INCLIN. / AZ. -90 / N/A

DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS							WELL CONSTRUCTION DETAILS	
						LOST / BROKEN CORE	RECOVERY		R.Q.D. %	FRACTURE INDEX PER 1m	DISCONTINUITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k _v m/sec.		
							TOTAL CORE %	SOLID CORE %						
							80 60 40 20	80 60 40 20						
-35		Poor to good quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermittent laminations of ARGILITE/SHALE <i>(continued...)</i>			12									
-36														
-37														
-38														
-39														
-40														
-41	69.09													
-42		End of Borehole												
-43														
-44														
-45														
-46														
-47														
-48														
-49														
-50														
-51														
-52														
-53														
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-59														
-60														
-61														
-62														
-63														
-64														
-65														
-66														
-67														
-68														
-69														
-70														

Logged By: _____
 Reviewed By: _____

C.3 BEDROCK CORE PHOTOGRAPHIC LOGS




Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 1	
Borehole ID: BH21-01	
Depth from (m): 4.00	
Depth to (m): 11.88	
Core Runs: 1-3	
Core Photograph Condition: Dry	
Comments:	

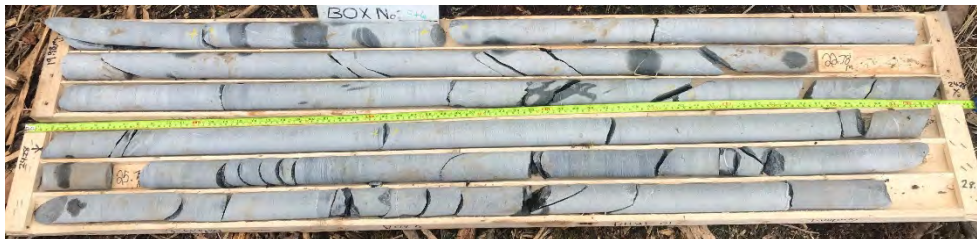
Photograph ID: 2	
Borehole ID: BH21-01	
Depth from (m): 4.00	
Depth to (m): 11.88	
Core Runs: 1-3	
Core Photograph Condition: Wet	
Comments:	

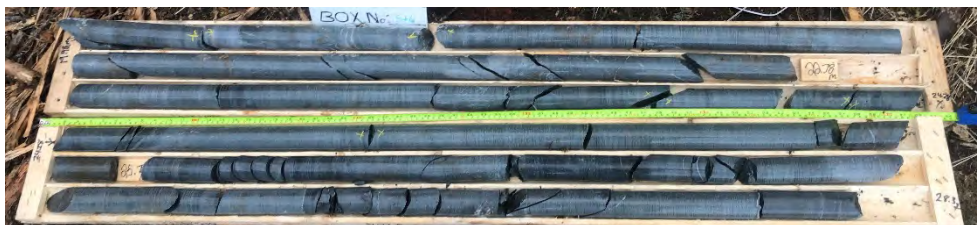
Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 3	
Borehole ID: BH21-01	
Depth from (m): 11.88	
Depth to (m): 19.98	
Core Runs: 3-6	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 4	
Borehole ID: BH21-01	
Depth from (m): 11.88	
Depth to (m): 19.98	
Core Runs: 3-6	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 5	
Borehole ID: BH21-01	
Depth from (m): 19.98	
Depth to (m): 28.37	
Core Runs: 6-8	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 6	
Borehole ID: BH21-01	
Depth from (m): 19.98	
Depth to (m): 28.37	
Core Runs: 6-8	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 7	
Borehole ID: BH21-01	
Depth from (m): 28.37	
Depth to (m): 36.79	
Core Runs: 8-11	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 8	
Borehole ID: BH21-01	
Depth from (m): 28.37	
Depth to (m): 36.79	
Core Runs: 8-11	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 9	
Borehole ID: BH21-01	
Depth from (m): 36.79	
Depth to (m): 44.52	
Core Runs: 11-13	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 10	
Borehole ID: BH21-01	
Depth from (m): 36.79	
Depth to (m): 44.52	
Core Runs: 11-13	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 11	
Borehole ID: BH21-01	
Depth from (m): 44.52	
Depth to (m): 48.57	
Core Runs: 13-15	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 12	
Borehole ID: BH21-01	
Depth from (m): 44.52	
Depth to (m): 48.57	
Core Runs: 13-15	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 13	
Borehole ID: BH21-01	
Depth from (m): 48.57	
Depth to (m): 56.65	
Core Runs: 15-18	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 14	
Borehole ID: BH21-01	
Depth from (m): 48.57	
Depth to (m): 56.65	
Core Runs: 15-18	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 15	
Borehole ID: BH21-01	
Depth from (m): 56.65	
Depth to (m): 61.00	
Core Runs: 18-20	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 16	<p>No Picture</p>
Borehole ID: BH21-01	
Depth from (m): 56.65	
Depth to (m): 61.00	
Core Runs: 18-20	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 17	
Borehole ID: BH21-02	
Depth from (m): 5.65	
Depth to (m): 13.63	
Core Runs: 1-3	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 18	
Borehole ID: BH21-02	
Depth from (m): 5.65	
Depth to (m): 13.63	
Core Runs: 1-3	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 19	
Borehole ID: BH21-02	
Depth from (m): 13.63	
Depth to (m): 25.54	
Core Runs: 3-6	
Core Photograph Condition: Dry	
Comments:	

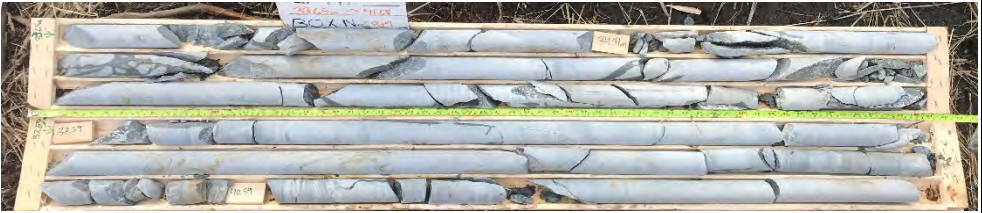
Photograph ID: 20	
Borehole ID: BH21-02	
Depth from (m): 13.63	
Depth to (m): 25.54	
Core Runs: 3-6	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 21	
Borehole ID: BH21-02	
Depth from (m): 25.59	
Depth to (m): 33.65	
Core Runs: 6-9	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 22	
Borehole ID: BH21-02	
Depth from (m): 25.59	
Depth to (m): 33.65	
Core Runs: 6-9	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 23	
Borehole ID: BH21-02	
Depth from (m): 33.65	
Depth to (m): 41.68	
Core Runs: 9-12	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 24	
Borehole ID: BH21-02	
Depth from (m): 33.65	
Depth to (m): 41.68	
Core Runs: 9-12	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 25	
Borehole ID: BH21-02	
Depth from (m): 41.68	
Depth to (m): 52.95	
Core Runs: 12-16	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 26	
Borehole ID: BH21-02	
Depth from (m): 41.68	
Depth to (m): 52.95	
Core Runs: 12-16	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 27	
Borehole ID: BH21-02	
Depth from (m): 52.95	
Depth to (m): 61.59	
Core Runs: 16-18	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 28	
Borehole ID: BH21-02	
Depth from (m): 52.95	
Depth to (m): 61.59	
Core Runs: 16-18	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 29	
Borehole ID: BH21-03	
Depth from (m): 2.79	
Depth to (m): 16.02	
Core Runs: 1-5	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 30	
Borehole ID: BH21-03	
Depth from (m): 2.79	
Depth to (m): 16.02	
Core Runs: 1-5	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 31	
Borehole ID: BH21-03	
Depth from (m): 16.02	
Depth to (m): 28.81	
Core Runs: 5-9	
Core Photograph Condition: Dry	
Comments:	

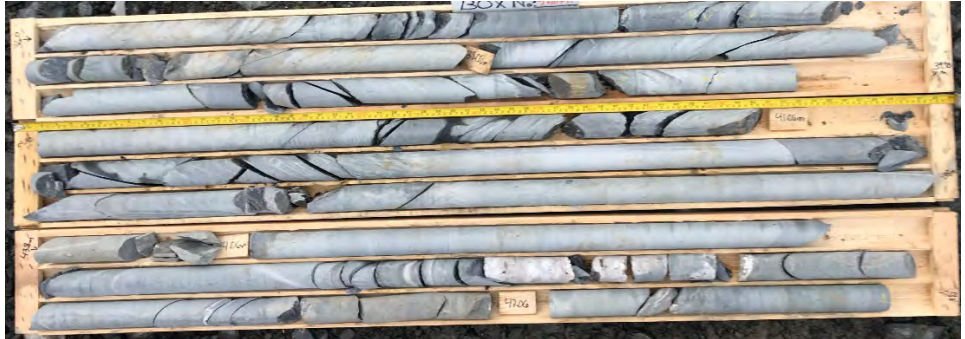
Photograph ID: 32	
Borehole ID: BH21-03	
Depth from (m): 16.02	
Depth to (m): 28.81	
Core Runs: 5-9	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 33	
Borehole ID: BH21-03	
Depth from (m): 28.81	
Depth to (m): 36.00	
Core Runs: 9-12	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 34	
Borehole ID: BH21-03	
Depth from (m): 28.81	
Depth to (m): 36.00	
Core Runs: 9-12	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 35	
Borehole ID: BH21-03	
Depth from (m): 36.00	
Depth to (m): 47.62	
Core Runs: 12-16	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 36	
Borehole ID: BH21-03	
Depth from (m): 36.00	
Depth to (m): 47.62	
Core Runs: 12-16	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 37	
Borehole ID: BH21-03	
Depth from (m): 47.62	
Depth to (m): 60.29	
Core Runs: 16-20	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 38	
Borehole ID: BH21-03	
Depth from (m): 47.62	
Depth to (m): 60.29	
Core Runs: 16-20	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 39	
Borehole ID: BH21-03	
Depth from (m): 60.29	
Depth to (m): 72.38	
Core Runs: 20-24	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 40	
Borehole ID: BH21-03	
Depth from (m): 60.29	
Depth to (m): 72.38	
Core Runs: 20-24	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 41	
Borehole ID: BH21-03	
Depth from (m): 72.38	
Depth to (m): 85.00	
Core Runs: 24-28	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 42	
Borehole ID: BH21-03	
Depth from (m): 72.38	
Depth to (m): 85.00	
Core Runs: 24-28	
Core Photograph Condition: Wet	
Comments:	


Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 43	
Borehole ID: BH21-03	
Depth from (m): 85.00	
Depth to (m): 93.37	
Core Runs: 28-31	
Core Photograph Condition: Dry	
Comments:	

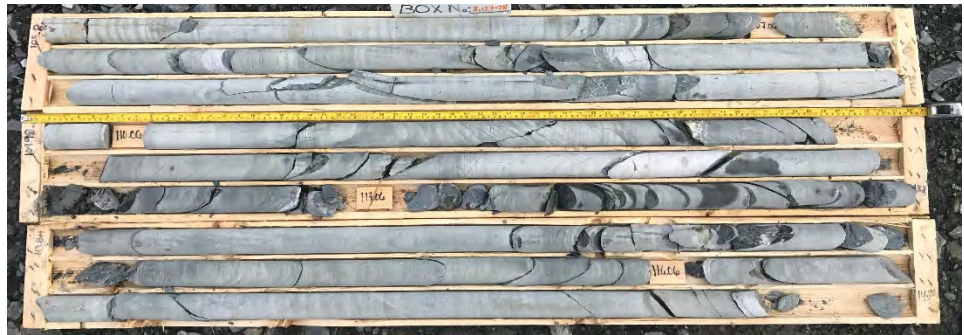
Photograph ID: 44	
Borehole ID: BH21-03	
Depth from (m): 85.00	
Depth to (m): 93.37	
Core Runs: 28-31	
Core Photograph Condition: Wet	
Comments:	


Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 45	
Borehole ID: BH21-03	
Depth from (m): 93.37	
Depth to (m): 105.80	
Core Runs: 31-35	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 46	
Borehole ID: BH21-03	
Depth from (m): 93.37	
Depth to (m): 105.80	
Core Runs: 31-35	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 47	
Borehole ID: BH21-03	
Depth from (m): 105.80	
Depth to (m): 118.15	
Core Runs: 35-39	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 48	
Borehole ID: BH21-03	
Depth from (m): 105.80	
Depth to (m): 118.15	
Core Runs: 35-39	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 49	
Borehole ID: BH21-03	
Depth from (m): 118.15	
Depth to (m): 120.15	
Core Runs: 39-40	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 50	
Borehole ID: BH21-03	
Depth from (m): 118.15	
Depth to (m): 120.15	
Core Runs: 39-40	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 51	
Borehole ID: BH21-04	
Depth from (m): 3.30	
Depth to (m): 11.90	
Core Runs: 1-4	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 52	<p>No Picture</p>
Borehole ID: BH21-04	
Depth from (m): 3.30	
Depth to (m): 11.90	
Core Runs: 1-4	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 53	
Borehole ID: BH21-04	
Depth from (m): 11.90	
Depth to (m): 17.40	
Core Runs: 4-5	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 54	
Borehole ID: BH21-04	
Depth from (m): 11.90	
Depth to (m): 17.40	
Core Runs: 4-5	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 55	
Borehole ID: BH21-04	
Depth from (m): 17.40	
Depth to (m): 21.50	
Core Runs: 6-7	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 56	
Borehole ID: BH21-04	
Depth from (m): 17.40	
Depth to (m): 21.50	
Core Runs: 6-7	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 57	
Borehole ID: BH21-04	
Depth from (m): 21.50	
Depth to (m): 27.10	
Core Runs: 7-9	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 58	
Borehole ID: BH21-04	
Depth from (m): 21.50	
Depth to (m): 27.10	
Core Runs: 7-9	
Core Photograph Condition: Wet	
Comments:	

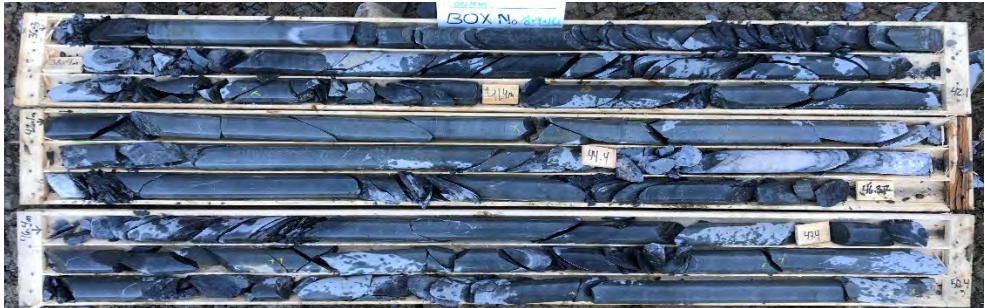
Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 59	
Borehole ID: BH21-04	
Depth from (m): 27.10	
Depth to (m): 36.30	
Core Runs: 9-12	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 60	
Borehole ID: BH21-04	
Depth from (m): 27.10	
Depth to (m): 36.30	
Core Runs: 9-12	
Core Photograph Condition: Wet	
Comments:	

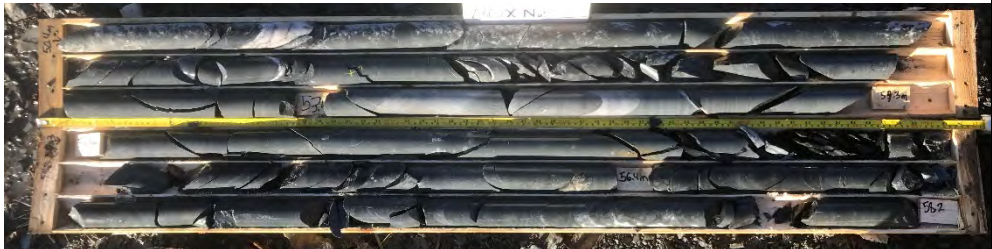
Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 61	
Borehole ID: BH21-04	
Depth from (m): 36.30	
Depth to (m): 50.40	
Core Runs: 12-17	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 62	
Borehole ID: BH21-04	
Depth from (m): 36.30	
Depth to (m): 50.40	
Core Runs: 12-17	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 63	
Borehole ID: BH21-04	
Depth from (m): 50.40	
Depth to (m): 58.20	
Core Runs: 17-20	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 64	
Borehole ID: BH21-04	
Depth from (m): 50.40	
Depth to (m): 58.20	
Core Runs: 17-20	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 65	
Borehole ID: BH21-04	
Depth from (m): 58.20	
Depth to (m): 60.40	
Core Runs: 20-21	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 66	
Borehole ID: BH21-04	
Depth from (m): 58.20	
Depth to (m): 60.40	
Core Runs: 20-21	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 67	
Borehole ID: BH21-05	
Depth from (m): 5.72	
Depth to (m): 15.10	
Core Runs: 1-3	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 68	
Borehole ID: BH21-05	
Depth from (m): 5.72	
Depth to (m): 15.10	
Core Runs: 1-3	
Core Photograph Condition: Wet	
Comments:	


Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 69	
Borehole ID: BH-21-05	
Depth from (m): 15.10	
Depth to (m): 22.10	
Core Runs: 3-6	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 70	
Borehole ID: BH21-05	
Depth from (m): 15.10	
Depth to (m): 22.10	
Core Runs: 3-6	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 71	
Borehole ID: BH21-05	
Depth from (m): 22.10	
Depth to (m): 25.43	
Core Runs: 6-7	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 72	
Borehole ID: BH21-05	
Depth from (m): 22.10	
Depth to (m): 25.43	
Core Runs: 6-7	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 73	
Borehole ID: BH21-05	
Depth from (m): 25.43	
Depth to (m): 32.11	
Core Runs: 8-10	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 74	
Borehole ID: BH21-05	
Depth from (m): 25.43	
Depth to (m): 32.11	
Core Runs: 8-10	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 75	
Borehole ID: BH21-05	
Depth from (m): 32.11	
Depth to (m): 42.32	
Core Runs: 10-13	
Core Photograph Condition: Dry	
Comments:	

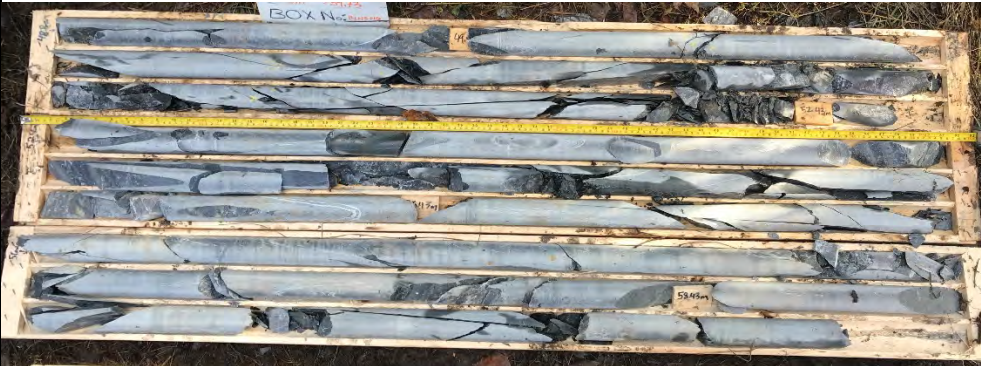
Photograph ID: 76	
Borehole ID: BH21-05	
Depth from (m): 32.11	
Depth to (m): 42.32	
Core Runs: 10-13	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 77	
Borehole ID: BH21-05	
Depth from (m): 42.32	
Depth to (m): 48.80	
Core Runs: 13-15	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 78	
Borehole ID: BH21-05	
Depth from (m): 42.32	
Depth to (m): 48.80	
Core Runs: 13-15	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 79	
Borehole ID: BH21-05	
Depth from (m): 48.80	
Depth to (m): 59.73	
Core Runs: 15-19	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 80	
Borehole ID: BH21-05	
Depth from (m): 48.80	
Depth to (m): 59.73	
Core Runs: 15-19	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 81	
Borehole ID: BH21-06	
Depth from (m): 5.05	
Depth to (m): 14.05	
Core Runs: 1-3	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 82	
Borehole ID: BH21-05	
Depth from (m): 5.05	
Depth to (m): 14.05	
Core Runs: 1-3	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 83	
Borehole ID: BH21-06	
Depth from (m): 14.05	
Depth to (m): 25.66	
Core Runs: 4-7	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 84	
Borehole ID: BH21-06	
Depth from (m): 14.05	
Depth to (m): 25.66	
Core Runs: 4-7	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 85	
Borehole ID: BH21-06	
Depth from (m): 25.66	
Depth to (m): 33.68	
Core Runs: 7-10	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 86	
Borehole ID: BH21-06	
Depth from (m): 25.66	
Depth to (m): 33.68	
Core Runs: 7-10	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 87	
Borehole ID: BH21-06	
Depth from (m): 33.68	
Depth to (m): 41.45	
Core Runs: 10-13	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 88	
Borehole ID: BH21-06	
Depth from (m): 33.68	
Depth to (m): 41.45	
Core Runs: 10-13	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 89	
Borehole ID: BH21-06	
Depth from (m): 41.45	
Depth to (m): 49.10	
Core Runs: 13-15	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 90	
Borehole ID: BH21-06	
Depth from (m): 41.45	
Depth to (m): 49.10	
Core Runs: 13-15	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 91	
Borehole ID: BH21-06	
Depth from (m): 49.10	
Depth to (m): 60.05	
Core Runs: 15-17	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 92	
Borehole ID: BH21-06	
Depth from (m): 49.10	
Depth to (m): 60.05	
Core Runs: 15-17	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 93	
Borehole ID: BH21-07	
Depth from (m): 7.80	
Depth to (m): 19.00	
Core Runs: 1-4	
Core Photograph Condition: Dry	
Comments:	


Photograph ID: 94	
Borehole ID: BH21-07	
Depth from (m): 7.80	
Depth to (m): 19.00	
Core Runs: 1-4	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 95	
Borehole ID: BH21-07	
Depth from (m): 19.00	
Depth to (m): 34.80	
Core Runs: 4-9	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 96	
Borehole ID: BH21-07	
Depth from (m): 19.00	
Depth to (m): 34.80	
Core Runs: 4-9	
Core Photograph Condition: Wet	
Comments:	

Client: Atlantic Mining NS Inc.	Project: In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project	Site Location: Middle Musquodobit, NS

Photograph ID: 97	
Borehole ID: BH21-07	
Depth from (m): 34.80	
Depth to (m): 40.80	
Core Runs: 9-11	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 98	
Borehole ID: BH21-07	
Depth from (m): 34.80	
Depth to (m): 40.80	
Core Runs: 9-11	
Core Photograph Condition: Wet	
Comments:	