

**APPENDIX H
HYDROGEOLOGY TECHNICAL SUPPORT DOCUMENT**

ADDENDUM – HYDROGEOLOGY

RESPONSE LETTER TO COMMENTS ON THE IAMGOLD CÔTÉ GOLD PROJECT ENVIRONMENTAL IMPACT STATEMENT (EIS)/DRAFT ENVIRONMENTAL ASSESSMENT (EA) REPORT TECHNICAL SUPPORT DOCUMENT: HYDROGEOLOGY

1.0 INTRODUCTION

This addendum to Appendix H – Hydrogeology Technical Support Document (TSD) has been prepared to address comments received from Aboriginal groups, government reviewers and interested stakeholders on the Environmental Impact Statement (EIS)/Draft Environmental Assessment (EA) Report.

Comments submitted to IAMGOLD have been provided and responded to in Appendix Z of the Amended EIS/Final EA Report. Minor editorial comments related to the TSD have been directly addressed through updates in the TSD, and these changes are tracked in Appendix Z. Comments that request additional information to support the TSD have been addressed through this addendum to the Hydrogeology TSD. Comments which require more information or greater clarification are generally focused on the following technical areas:

- estimated seepage rates from the Mine Rock Area (MRA) and Tailings Management Facility (TMF);
- inclusion of more detailed baseline groundwater information including flow maps and cross-sections; and
- inclusion of more detailed information on existing water takings.

2.0 SEEPAGE ESTIMATES

This section provides responses to Comments #84, 88, 444, 447 and 528.

Several comments were received requesting additional information on estimates of the volume of water that may bypass the various seepage control measures that will be installed at the TMF and MRA. Various seepage control measures were included in the MRA and TMF designs. These measures follow standard industry practice with the intent of reducing, to the extent practical, seepage losses from the MRA and TMF.

As part of the pre-feasibility study design of the MRA and TMF, the effectiveness of the proposed seepage control measures was evaluated with a two dimensional (2D) seepage analyses for steady state condition using the SEEP/W module of the commercially available software package GeoStudio 2007. Details of this seepage modelling are included in Attachment A and B of this Addendum for the TMF and MRA respectively.

Estimates of seepage that bypass the collections systems and discharges into the surface water environment were accounted for in the water quality effects predictions. The water quality model assumes a loading rate into surface water features due to seepage from the MRA and TMF. The seepage, and associated mass load, from the low-grade ore stockpile is assumed to report to the open pit, as the drawdown cone due to dewatering of the



open pit extends beyond the perimeter of the low-grade ore stockpile; the low-grade ore stockpile is assumed to be processed prior to closure and will not be present during the post-closure phase.

Seepage from the MRA is assumed to report to Chester Lake, Three Duck Lakes, Delaney Lake and a portion of the Mollie River system feeding Dividing Lake. The MRA seepage was allocated based on estimated bypass flows as presented in the Hydrogeology TSD Addendum. Seepage from the TMF is assumed to report to Bagsverd Lake, Un-named Lake #1, Un-named Lake #2 and Bagsverd Creek.

The seepage loading rates from the MRA and TMF are presented in Table 20a in the Water Quality TSD Addendum.

3.0 ADDITIONAL BASELINE HYDROGEOLOGICAL INFORMATION

In this section a response is provided to Comment #444, which requested additional information on the hydrostratigraphy of the TMF area, baseline groundwater flow mapping, and cross-sections.

3.1 Tailings Management Facility

The proposed TMF is characterized by a central low-lying area (approximate elevation 376 masl) through which Bagsverd Creek flows southeast to north-northwest. Higher topography occurs near the east and west boundaries of the proposed TMF.

Relatively thin overburden (typically 1 m to 8 m thick) and occasional outcropping bedrock was observed at higher elevations around the perimeter of the proposed TMF. Thicker deposits of overburden, which consisted primarily of till, occurred in the central low-lying portion of the proposed TMF along Bagsverd Creek (DH12-TMF-29) and other low-lying areas near surface water features outside of the tailings area footprint (DH12-TMF-25).

Typically the overburden encountered consists of organics overlying till with some intervening granular materials. At five locations, more than 5 m of granular material was encountered above the till. Overburden deposits encountered at low-lying test locations were primarily comprised of peat overlying fine grained and fine granular mixtures of clayey silt to sand with occasional underlying deposits of coarse granular deposits and till overlying bedrock.

A total of 27 boreholes were completed in the vicinity of the TMF. In general, overburden thickness in the proposed TMF averaged about 6 m, ranging in thickness from approximately 1 m to greater than 17 m in low-lying areas. Details on the stratigraphy encountered in these boreholes is provided in Table 1a below.

Table 1a: Borehole Stratigraphy

Borehole Number	Organics (m)	Silt (m)	Silt/Sand (m)	Sand/Silt (m)	Sand (m)	Gravel/Cobbles (m)	Till (m)	Total Overburden (m)
DH12-TMF-10	0.91	-	-	-	0.40	-	-	1.31
DH12-TMF-11	0.05	-	-	0.20	-	-	5.28	5.53
DH12-TMF-12	1.50	-	-	6.25	-	-	10.16	17.91
DH12-TMF-13	0.30	-	1.45	-	-	-	0.91	2.66
DH12-TMF-14	2.80	-	1.55	-	-	0.15	-	4.50

Borehole Number	Organics (m)	Silt (m)	Silt/Sand (m)	Sand/Silt (m)	Sand (m)	Gravel/Cobbles (m)	Till (m)	Total Overburden (m)
DH12-TMF-15	0.10	-	1.55	-	-	-	0.55	2.20
DH12-TMF-16	0.25	-	-	-	-	-	0.50	0.75
DH12-TMF-17	2.02	-	-	-	9.18	-	1.92	13.12
DH12-TMF-18	4.42	-	-	2.02	2.28	-	1.64	10.36
DH12-TMF-19	0.36	-	-	-	-	-	1.04	1.40
DH12-TMF-20	0.45	-	-	7.05	-	-	5.33	12.83
DH12-TMF-21	2.89	-	-	-	-	-	0.15	3.04
DH12-TMF-22	0.08	-	-	-	1.82	-	2.63	4.53
DH12-TMF-23	0.50	-	-	4.41	-	-	0.21	5.12
DH12-TMF-24	0.60	-	-	-	-	-	3.61	4.21
DH12-TMF-25	3.00	-	2.25	3.35	-	-	2.95	11.55
DH12-TMF-26	2.10	1.50	-	-	-	-	14.10	17.70
DH12-TMF-27	1.35	-	-	-	-	-	2.35	3.70
DH12-TMF-28	0.75	-	-	-	-	-	3.75	4.50
DH12-TMF-29	2.36	-	2.97	-	6.71	-	3.07	15.11
DH12-TMF-30	0.40	1.85	-	1.88	-	-	-	4.13
DH12-TMF-31	0.70	-	-	0.75	-	0.12	1.28	2.85
DH12-TMF-32	0.10	-	1.40	-	-	-	1.57	3.07
DH12-TMF-33	0.10	0.65	-	-	-	-	0.86	1.61

Note:
m –metre
dash – not present

A cross-section showing the stratigraphy along the proposed dam profile has been included as Figure 2a in Attachment A of this Addendum. As can be observed, thin and discontinuous overburden is observed at higher elevations.

3.2 Baseline Groundwater Flow Mapping

Baseline groundwater flow directions are shown in Figures 1a and 2a for the southern and northern parts of the Project site respectively in order to address Comment #85.

Groundwater elevations ranged from over 397 masl to less than 370 masl, but were typically in the range of about 375 masl to 390 masl. The seasonal range of groundwater levels at most monitoring locations was less than 1.5 m.

Groundwater elevations generally declined from southwest and west to east and northeast across the site, generally consistent with the decline in lake elevations across this area. As such, the regional groundwater flow is in general towards the northeast.

Local groundwater flow is topographically controlled and the water table generally provides a subdued reflection of the local scale topography with flow from higher elevation to discharge areas at lower elevation bogs and wetlands or lakes and streams. The relatively flat topography across the Project site results in generally short groundwater flow paths from local topographic highs of sub-watersheds to the nearby surface water features.

4.0 GROUNDWATER USE

In this section a response is provided to Comment #415 and #445.

Ontario Ministry of the Environment and Climate Change (MOECC) records indicate there are two active permitted water takings (PTTW) within a 15 km radius of the Project both of which were issued to Trelawney (now IAMGOLD) for dewatering of the former shaft at the Chester Mine. Table 2a provides a summary of details for the PTTW. PTTW locations are shown on Figure 3a.

The only permitted water takings within 15 km of the Site are associated with the Project. As such, there are no current identified permitted water takings that are likely to be impacted by the Project.

Table 2a: Summary of Active Ontario Ministry of the Environment and Climate Change Permit To Take Waters within 15 km of Project Site

Permit Number	Client Name	Issue Date	Expiry Date	Purpose	Source	Source ID	UTM Location			Maximum Limitations			
							Zone	Northing	Easting	Volume (L/d)	Volume (L/min)	Hours (hrs/d)	Days (d/y)
5103-88DHV4	Trelawney Mining and Exploration Inc.	8/19/2010	7/31/2015	Dewatering	Ground-water	Bates Shaft (Initial Dewatering)	17	5267300	432950	2725000	1,892	24	45
5103-88DHV4	Trelawney Mining and Exploration Inc.	8/19/2010	7/31/2015	Dewatering	Ground-water	Bates Shaft (Maintenance Dewatering)	17	5267300	432950	817632	568	24	365

Note:
L/d – litre per day
L/min – litre per minute
hrs/d – hours per day
d/y – day per year

MOECC Water Well Records indicated that there are six groundwater wells located within a radius of approximately 15 km of the Site. Two of the wells, both drilled in 2010, are located on IAMGOLD property at the Chester Mine, approximately 3 km to the east of the proposed open pit. One well, drilled in 1974 (well ID number 5903306), is indicated as a domestic well. This well is located approximately 5 km northeast of the Project site near Mesomikenda Lake and is believed to be the water well for the IAMGOLD camp. Three wells are located between eight and 11 km southeast and upgradient of the Project site. Two of them are located south of the Hudson Bay / Great Lakes – St. Lawrence watershed divide and will therefore not be affected by the project. The third well is located south of Dividing Lake and is owned by the Department of Highways. This well is located far beyond any area anticipated to be affected by the Project and is therefore not of concern.

It should be noted that well locations documented on the Water Well Records may not represent actual well locations due to several factors including a shift in the mapping coordinate system between the commonly used NAD27 and NAD83 datums.

A summary of the groundwater supply wells identified within a 15 km radius of the Project site is provided in Table 3a below. Groundwater supply well locations are shown on Figure 3a.

Based upon the review completed and discussed above, all of these wells are either part of the Project or located outside of the potential area of influence from the Project. It is not expected that the Project will affect existing identified groundwater wells in the area.

Table 3a: Summary of Ontario Ministry of the Environment and Climate Change Water Well Records within 15 km of Project Site

Well ID	Zone	Easting (NAD 83)	Northing (NAD 83)	Location	Date Completed	Reported Stratigraphy	Final Status	Primary Use
5901241	17	435615.2	5259116	Approximately 10 km southeast of the proposed open pit	1/24/1968	0 m to 15.24 m coarse sand, 15.24 m to 21 m fine sand, 21 m to 22.25 m medium sand	Water Supply	Public
5902074	17	429265.1	5258401	Approximately 8 km south of the proposed open pit	4/29/1969	0 m to 3.96 m boulders, 3.96 m to 23.77 m medium sand, 23.77 m to 25 m gravel	Water Supply	Public
5903306	17	434265.3	5268676	Approximately 5 km northeast of the proposed open pit	11/18/1974	0 m to 9.1 m sand, 9.1 m to 10.1 m gravel, 10.1 m to 12.2 m grey rock	Water Supply	Domestic
5905782	17	436367	5257699	Approximately 11 km southeast of the proposed open pit	7/15/1988	0 m to 0.3 m black peat, 0.3 m to 7.3 m brown sand, 7.3 m to 117.7 m grey rock	Water Supply	Public
7143433	17	432996	5267321	Approximately 3 km east of the proposed open pit	3/31/2010	0 m to 0.6 m brown sand, 0.6 m to 130 m grey rock	Water Supply	Domestic
7146275	17	432984	5267344	Approximately 3 km east of the proposed open pit	4/1/2010	0 m to 24.4 m grey sand and clay, 24.4 m to 26.8 m grey rock and sand, 26.8 m to 30.5 m grey rock and clay	Water Supply	Domestic

5.0 CONCLUDING REMARKS

This addendum provides some additional clarification and information on the baseline hydrogeological environment, groundwater users and seepage estimates. This data had been previously considered in the original Hydrogeological TSD and as such, does not change any conclusions made in that report. No changes have been made in the Hydrogeological TSD related to this additional information.

GOLDER ASSOCIATES LTD.



Karen Besemann, P.Geol.
Associate/Hydrogeologist

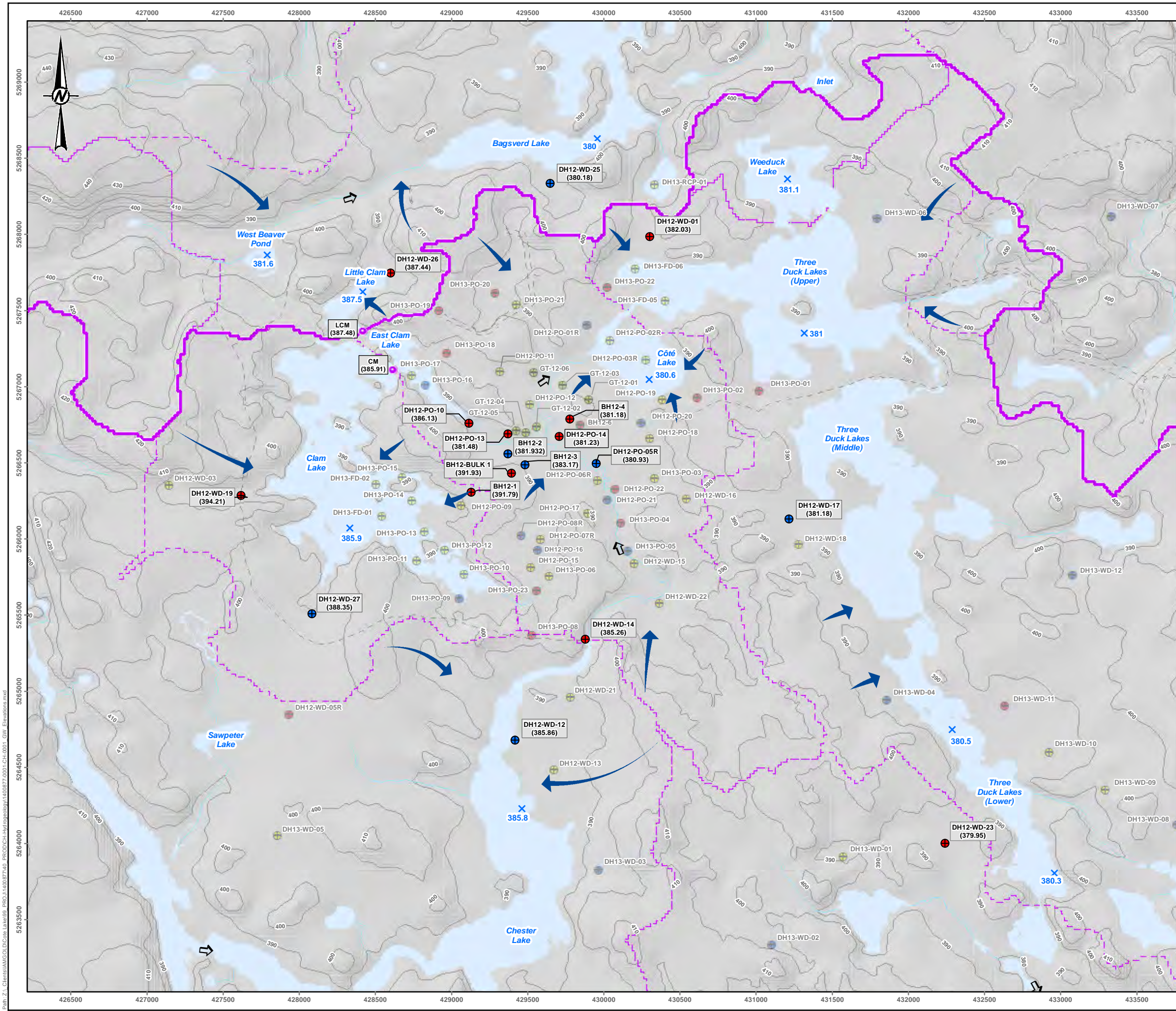


Stephen Kaufman, M.Sc.
Associate

KAB/JP/SK/ls

Attachments: Figures 1a to 3a
Attachment A and B

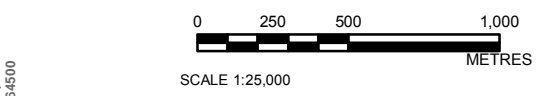
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- ← Local Groundwater Flow
 - ↑ Surface Water Direction
 - × Lake Elevations (August 2012)
 - Single Monitoring Well
 - ⊕ Nested Monitoring Well
 - ⊕ Geomechanical Drillhole
 - ⊕ Hydrological Monitoring Locations
 - ⊕ Geotechnical, Fade
 - ⊕ Nested, Fade
 - ⊕ Single, Fade
 - Main Access Road
 - Site Access Roads
 - Waterbodies
 - Creek / River
 - Sub-Watersheds
 - Watershed Boundary
 - Topographic Index Contours (10m interval)

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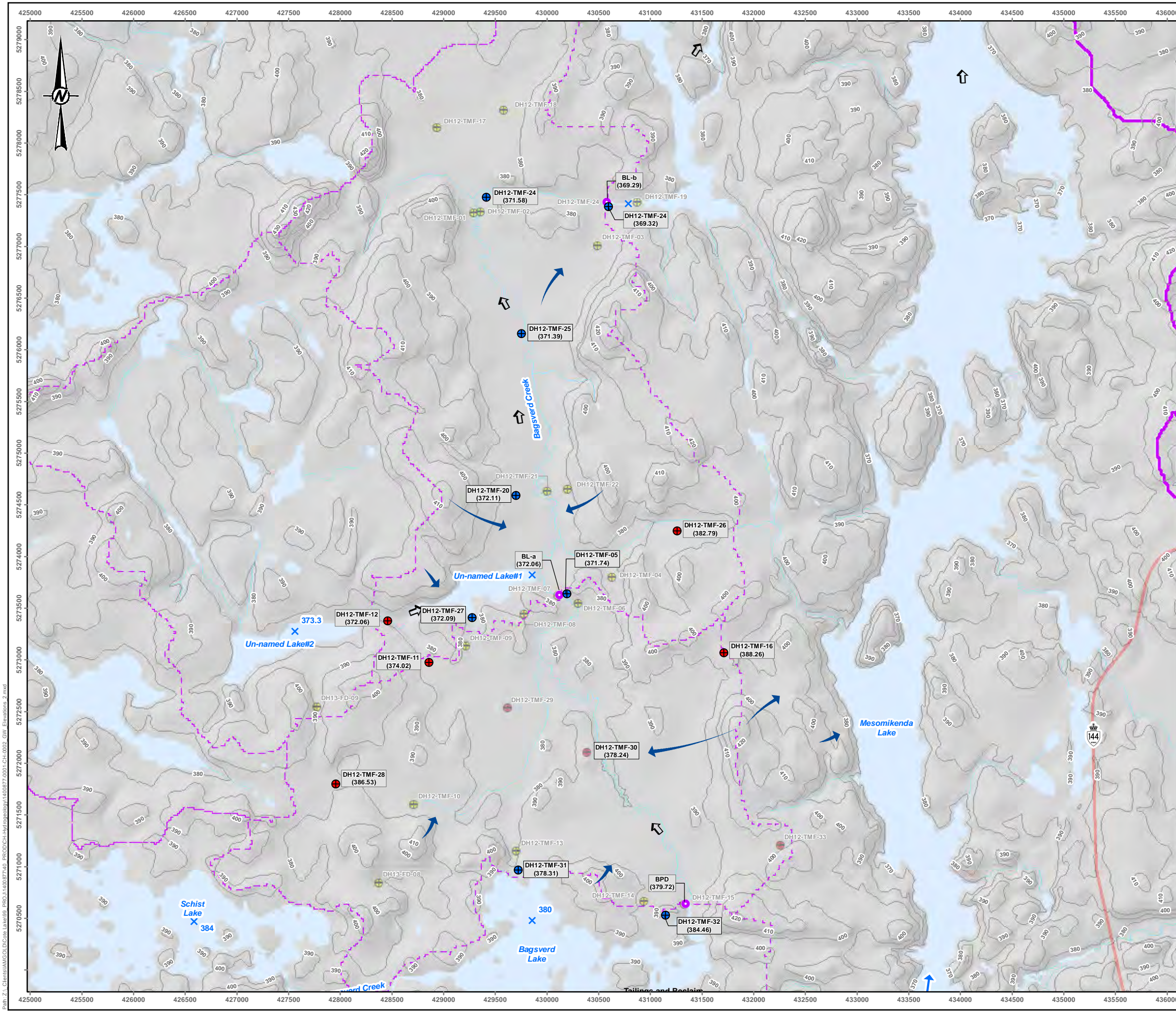
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PROJECT	CÔTÉ GOLD PROJECT	
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	REVIEW	KAB
	APPROVED	JP

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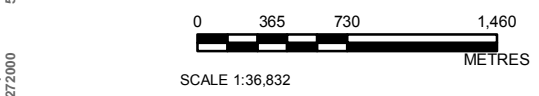
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- LEGEND**
- ← Local Groundwater Flow
 - ↑ Surface Water Direction
 - × Lake Elevations
 - Single Monitoring Well
 - ⊕ Nested Monitoring Well
 - Hydrological Monitoring Locations
 - ⊕ Geotechnical, Fade
 - Single, Fade
 - Major Roads
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 - Waterbodies_Name
 - Creek / River
 - - - Sub-Watersheds
 - ▭ Watershed Boundary

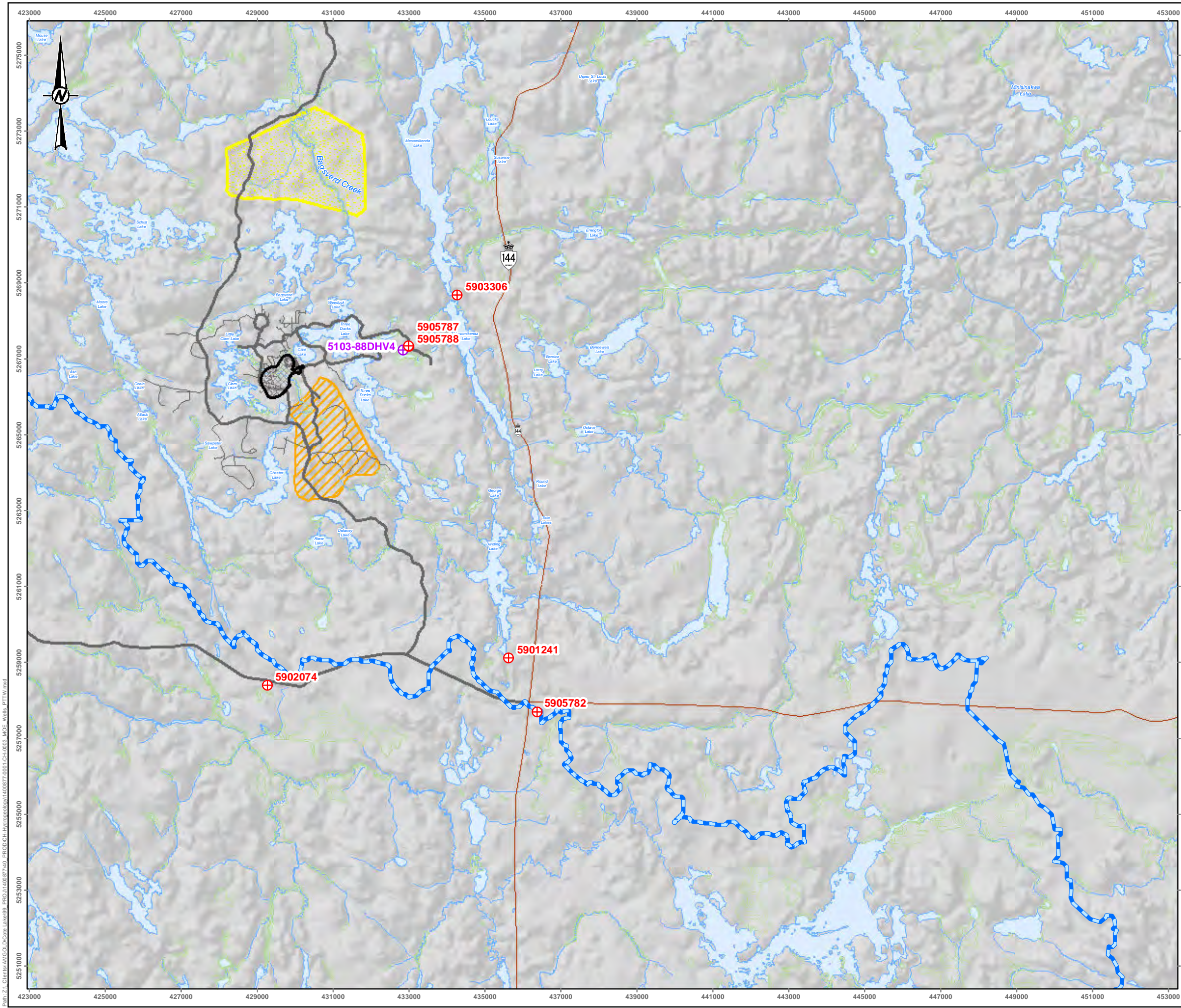
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 COORDINATE SYSTEM: UTM ZONE 17 VERTICAL DATUM: CGVD28



CLIENT	IAMGOLD	
PROJECT	CÔTÉ GOLD PROJECT	
TITLE	INTERPRETED GROUNDWATER FLOW DIRECTIONS	
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	REVIEW	KAB
	APPROVED	JP

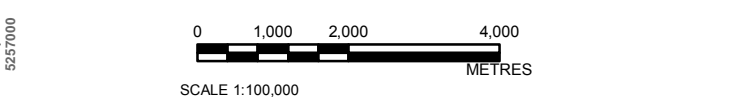
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- LEGEND
- MOE Water Well Records
 - MOE Permits to Take Water
 - Watershed Divide (Hudson Bay/Great Lakes-St.Lawrence)
 - Open Pit
 - Mine Rock Area (MRA)
 - Major Road
 - Road
 - Trail
 - Rivers
 - Tailings Management Facility (TMF)
 - Waterbodies
 - Wetlands

NOTES
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REFERENCE
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 COORDINATE SYSTEM: UTM ZONE 17 VERTICAL DATUM: CGVD28



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PROJECT	CÔTÉ GOLD PROJECT	
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ATTACHMENT A

DATE October 21, 2014

PROJECT No. 1400877

FROM Darrin Johnson, P.Eng.

EMAIL darjohnson@golder.com

CÔTÉ GOLD PROJECT - MINE ROCK STORAGE POND SEEPAGE ANALYSIS
1.0 INTRODUCTION

To support the Environmental Assessment (EA) water quality predictions for the Côté Gold Project, Golder developed an estimate seepage from the Mine Rock Area (MRA) water collection ponds. Seepage modelling was conducted to approximate the rate of seepage from the MRA water collection ponds to the downstream environment. A two-dimensional (2D) finite element modelling program, SEEP/W 2007 developed by GEO-SLOPE International Ltd., was used to estimate an average seepage flux through and underneath each dam that bounds each of the collection ponds. This memorandum includes a description of the seepage modelling methodology and results.

2.0 BACKGROUND

Fifteen Mine Rock Storage Ponds (MRSPs) are proposed to be constructed around the perimeter of the MRA to collect and temporarily store runoff and seepage water over the life of the mine from the stockpiled overburden and waste rock. A series of pumps (one located at each MRSP) will be used to convey the collected water around the perimeter of the MRA to the Mine Water Pond. Figure 1 illustrates a plan view of the MRA and water collection ponds around the perimeter. Figure 2 presents a cross-section of the MRA stockpile with subsurface investigation data.

The downstream receiving water bodies at each of the MRSPs are listed in Table 1. The water bodies include Chester Lake, Three Duck Lake (middle), Three Duck Lake (lower), Delaney Lake, and an unnamed lake south of the MRA. Three MRSPs (MRSP -1 to MRSP-3) will abut the ring road around the open pit and seepage from these ponds will report to the open pit.

Table 1: Downstream Receiving Bodies

Downstream Receiving Water Body	Mine Rock Storage Pond (MRSP)
Open Pit	MRSP-1
	MRSP-2
	MRSP-3
Chester Lake	MRSP-4
	MRSP-5
	MRSP-6



Downstream Receiving Water Body	Mine Rock Storage Pond (MRSP)
	MRSP-7
Delaney Lake	MRSP-8
Three Duck Lake (middle)	MRSP-9
	MRSP-10
Three Duck Lake (lower)	MRSP-11
	MRSP-12
	MRSP-13
Unnamed Lake	MRSP-14
	MRSP-15

3.0 SEEPAGE MODEL DEVELOPMENT

3.1 Methodology

Seepage modelling was carried out for the proposed MRSPs surrounding the proposed MRA. This analysis simulated the approximate quantities of collected runoff seeping through and underneath the MRSPs to the downstream environment. The modelling considered average, steady-state conditions.

A model for each MRSP was developed using a typical dam cross-section, assumed upstream and downstream head conditions, and a generalized stratigraphy considered to be representative along the dam length. A unit flux was determined from the model output. The flux value was multiplied by the length of the dam to estimate an average seepage rate from each MRSP.

Boundary conditions including upstream and downstream head levels, seepage faces and no flow conditions were assigned in each model based on the proposed conditions.

3.2 Model Configuration

Typical cross-sections for each of the 15 MRSPs were used to construct the seepage models. The modelling details including assumed stratigraphy, dam heights, upstream and downstream head conditions for each of the models are shown in Table A1 of Appendix A.

The MRSP dams are designed as rockfill shell dams with an upstream geomembrane anchored into the foundation soil. A typical cross section used in the model is shown in Figure A1 in Appendix A.

The MRSP dams were designed between higher ground to utilize natural topography for containment where possible. Excavated ponds were designed where naturally occurring topographic lows did not allow for containment. The area under the MRSP dams is proposed to be stripped of topsoil and organics, however, the pond floor will remain as natural ground with trees removed.

The stratigraphy of each modelled cross-section utilized the average overburden thickness in the area of the MRSP dams and data from the nearest borehole or test pit provided by Knight Piésold (KPL, 2013a, KPL, 2013b). An average thickness of organics (e.g., topsoil and/or peat) of 1 m at surface was assumed to be excavated beneath the dam footprints at each MRSP. Overburden below the organics layer at MRSP- 4 to MRSP- 15 was assumed to consist of sand/silt and gravel/till units (Table A1 in Appendix A) underlain by 10 m of weathered bedrock. It was assumed that the bedrock beneath the MRSP dams would not be grouted. Deeper

bedrock layers were not considered in the seepage modeling due to the relatively small amount of flow through these units. MRSP- 1 to MRSP- 3 are located directly adjacent to the open pit therefore seepage from these ponds will likely be dominated by pit dewatering. As such, the pit wall was approximated in these models with the bottom of the model section extending to the ultimate pit floor elevation.

The upstream head conditions in each MRSP were determined based on the average pond level predicted for an average precipitation year. The downstream head conditions were taken as the proposed lake elevations (Calder, 2013). For the three MRSPs adjacent to the open pit, the downstream boundary condition was taken as the ultimate open pit wall, represented by a series of seepage face nodes.

3.3 Material Properties

Hydraulic conductivity values used in the seepage modelling are presented in Table 2 below. Material properties for the overburden materials, and bedrock were based on data from limited slug testing and packer testing (KPL, 2013a; KPL 2013b) as reported in the EA Hydrogeology Technical Support Document.

Table 2: Summary of Hydraulic Conductivity Values

Material	Hydraulic Conductivity (m/s)
Compacted Waste Rock Fill	1.0×10^{-4}
Geomembrane	1.0×10^{-8}
Organics	1.1×10^{-6}
Native Sand and Silt	1.1×10^{-6}
Sand and Gravel/ Glacial Till	1.9×10^{-5}
Weathered Bedrock	4.0×10^{-7}
Upper Bedrock	2.4×10^{-7}
Intermediate Bedrock	2.0×10^{-8}
Lower Bedrock	1.0×10^{-9}

4.0 SEEPAGE ANALYSIS RESULTS

Seepage modelling results are summarized in Table 3 for each MRSP and corresponding receiving body. Table A1 (in Appendix A) further lists seepage output alongside model input parameters. Lastly, Figures A2 to A6 (in Appendix A) illustrate simulated head contours and seepage. The modelled seepage is largely a function of the hydraulic gradient (head difference) between the MRSP and receptor and the hydraulic conductivity of the foundation materials. Seepage rates increase with larger head differential and greater overburden thickness. Predicted average annual seepage rates for MRSP-1 to MRSP-3 (abutting the open pit ring road) range from 1.6 to 3.5 L/s, and for MRSP- 4 to MRSP- 15 they range from 0.2 to 3.1 L/s averaging approximately 1.3 L/s.

The model results provide an estimate of the seepage expected through the MRSP dams over an annualized period and are suitable for preliminary water quality modelling. At times where the water level difference between the pond and receptor is higher than average, more seepage can be expected and vice versa.

Table 3: Summary of Seepage Analysis Results

MRSP #	Seepage Rate (m ³ /year)	Seepage Rate (L/s)	D/S Receiving Body	Seepage Rate into Receiving Body (m ³ /year)	Seepage Rate into Receiving Body (L/s)
MRSP-1	50,600	1.6	Open Pit	213,300	6.8
MRSP-2	108,800	3.5			
MRSP-3	53,800	1.7			
MRSP-4 ¹	4,900	0.2	Chester Lake	160,400	5.1
MRSP-5	15,000	0.5			
MRSP-6	42,600	1.3			
MRSP-7	97,800	3.1			
MRSP-8	22,400	0.7	Delaney Lake	22,400	0.7
MRSP-9	93,100	3.0	Three Duck Lake (middle)	125,400	4.0
MRSP-10	32,300	1.0			
MRSP-11	48,700	1.5	Three Duck Lake (lower)	112,100	3.6
MRSP-12	55,500	1.8			
MRSP-13	7,900	0.3			
MRSP-14	21,100	0.7	Unnamed Lake	57,600	1.8
MRSP-15	36,500	1.2			

5.0 CLOSURE

We trust that this technical memorandum meets the current project requirements.

DB/MJT/DH/DCJ/KAB/co

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References

Calder Engineering, 2013. Drawing entitled "Cote Gold Project, Conceptual Plan Mollie River Re-alignment", Drawing No. 12-125-WO, dated May 2, 2013.

Knight Piésold, 2013a. Report on "Côte Gold Project 2012 Summer Site Investigation Summary" dated January 18, 2013.

Knight Piésold, 2013b. Report on "Côte Gold Project 2013 Winter Site Investigation Summary" dated April 10, 2013.

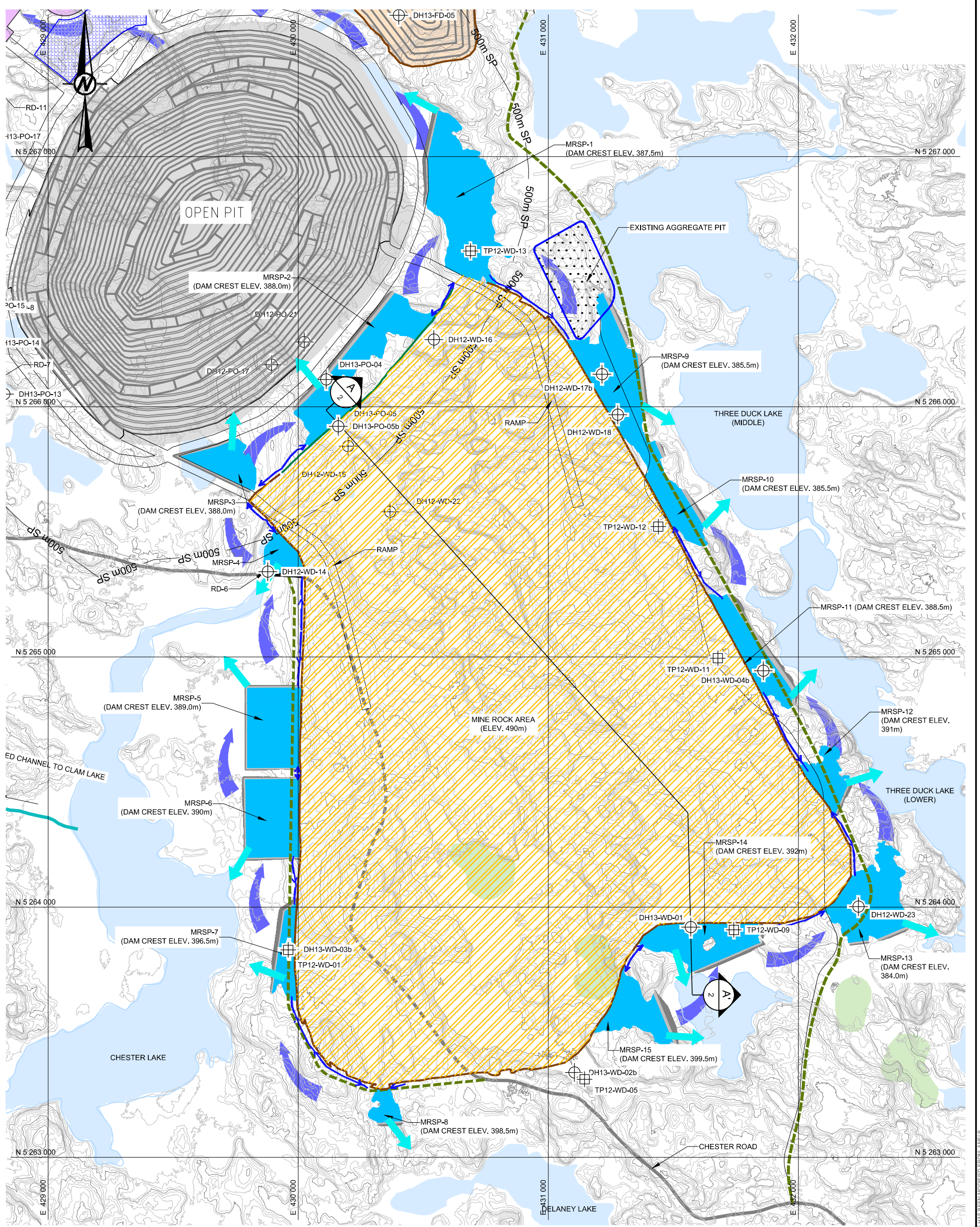
Attachments

Figure 1 – Mine Rock Area Plan

Figure 2 – Mine Rock Area Cross-Section

Appendix A – MRA Seepage Modelling Results

FIGURES



PLAN VIEW
SCALE 1:15000



LEGEND

- BOREHOLES
- TEST PITS
- MINE ROCK AREA
- MINE ROCK STORAGE POND (MRSP)
- MRSP DAM
- DITCH
- REALIGNMENT DAM
- REALIGNMENT CHANNEL
- EXISTING ROAD
- PROPOSED ROAD ALIGNMENT
- EXISTING WATERBODIES
- EMERGENCY SPILLWAY LOCATION
- WETLANDS

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PROJECT
CÔTÉ GOLD PROJECT

CONSULTANT



YYYY-MM-DD 2014-09-19
PREPARED MY
DESIGN EPT
REVIEW DCJ
APPROVED KAB

TITLE
MINE ROCK AREA PLAN

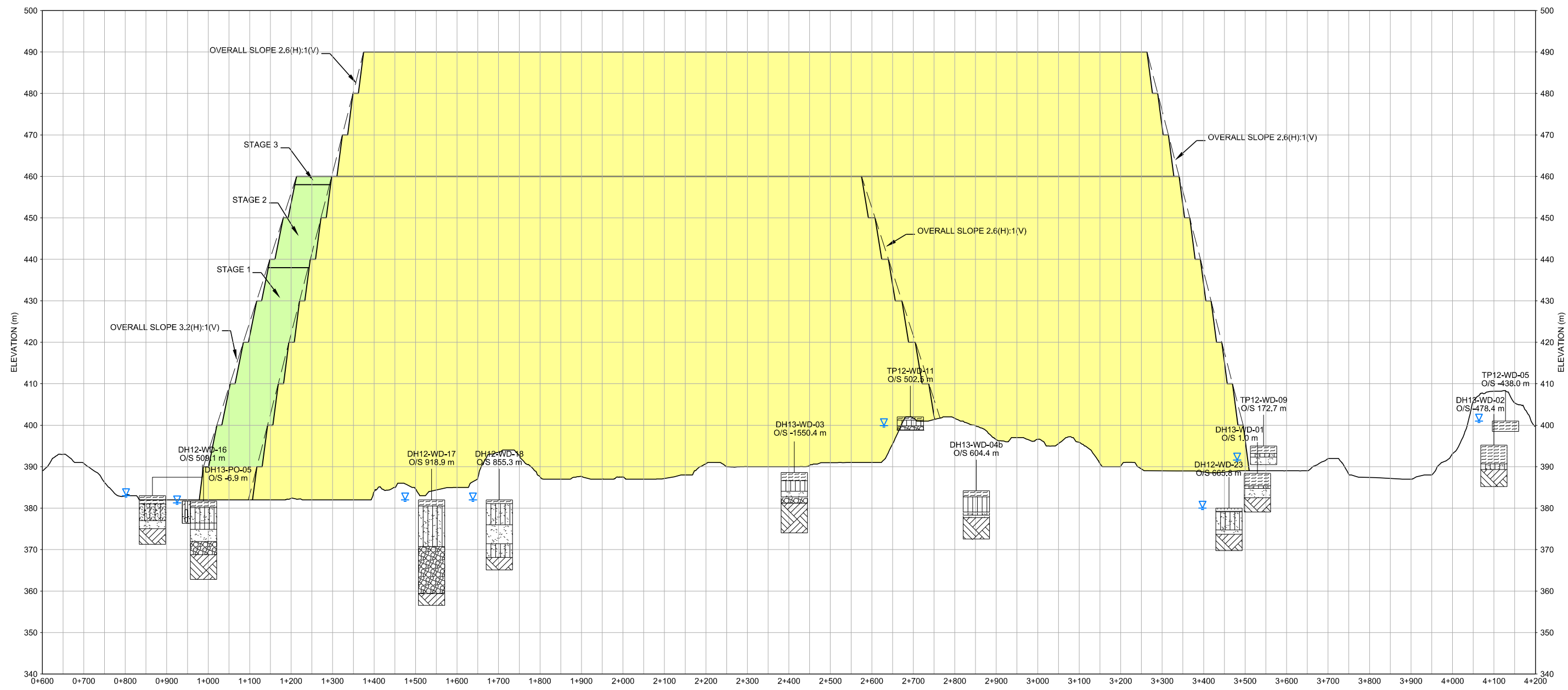
PROJECT No. 1400877
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FIGURE 1

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MRA CROSS-SECTION A-A'
 HORI. SCALE 1:10,000 VERT. SCALE 1:1000



GEOLOGICAL BOREHOLE LEGEND	
	ORGANICS/TOPSOIL
	SAND
	SAND AND SILT
	SILT
	GRAVEL
	BEDROCK
	ICE
	WATER
	WATER LEVEL

LEGEND	
	OVERBURDEN
	WASTE ROCK

NOTES:
 (1) REFER TO DWG. NO. 800-C-0106 FOR LOCATION OF CROSS-SECTION E-E'.
 (2) FOR INFORMATION PURPOSE ONLY, NOT FOR CONSTRUCTION.

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DESIGN	EPT
REVIEW	DCJ
APPROVED	KB

PROJECT
CÔTÉ GOLD PROJECT

TITLE
MINE ROCK AREA CROSS-SECTION

PROJECT No.	PHASE	Rev.	FIGURE
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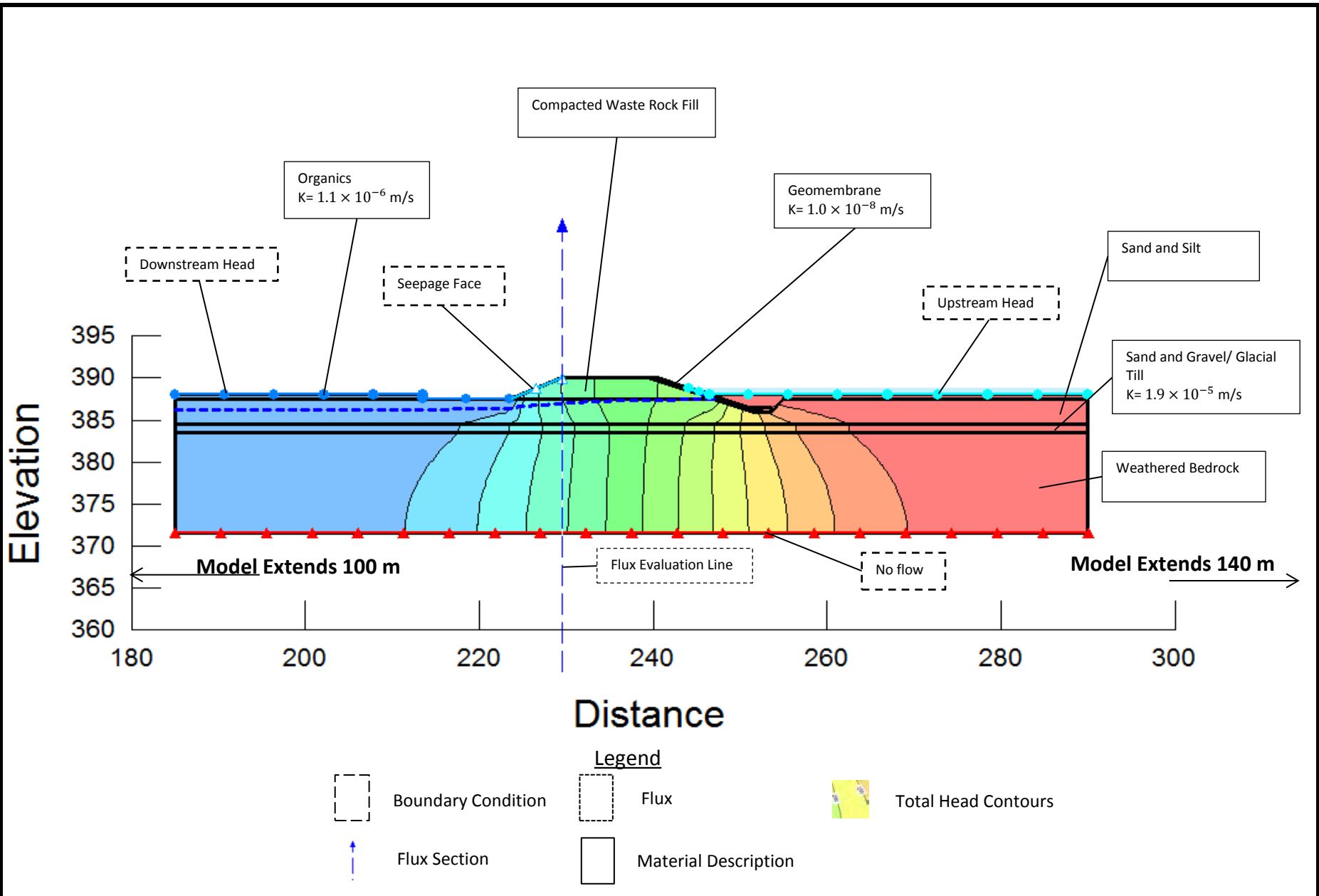
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APPENDIX A

Seepage Modelling Results

Table A1
MRSP Seepage Modelling Parameters and Results

Pond Name	Overburden - as modelled				Input Data								Results			
	Organics (m)	Sand and Silt (m)	Gravel & Till (m)	Total (m)	Receiving Body	Dam Length (m)	Minimum Ground Elevation (m)	Dam Crest Elevation (masl)	Max Dam Height (m)	Average Annual Pond Elevation (masl)	Assumed Receiving Lake elevation (masl)	Avg. Head Difference (m)	Seepage flux(m ³ /s/m) at average water level	Seepage Rate (m ³ /s)	Seepage Rate (L/s)	Seepage Rate (m ³ /year)
MRSP-1	1.0	6.0	1.0	8.0	Open Pit	405	382.0	387.5	5.5	384.3	-	-	3.96E-06	1.60E-03	1.6	50,600
MRSP-2	1.0	3.0	4.0	8.0	Open Pit	580	382.0	388.0	6	383.5	-	-	5.95E-06	3.45E-03	3.5	108,800
MRSP-3a	1.0	4.0	1.0	6.0	Open Pit	285	386.5	390.0	2	387.6	-	-	4.47E-06	1.27E-03	1.3	40,100
MRSP-3b	1.0	4.0	1.0	6.0	Open Pit	307	386.5	390.0	2	387.6	386.5	1.1	1.42E-06	4.36E-04	0.4	13,700
MRSP-4	1.0	0.5	2.0	3.5	Chester Lake	150	385.0	389.5	4.5	387.1	386.2	0.9	1.04E-06	1.57E-04	0.2	4,900
MRSP-5	0.5	3.0	0.0	3.5	Chester Lake	739	388.0	389.0	1.5	387.8	386.2	1.6	6.45E-07	4.77E-04	0.5	15,000
MRSP-6	0.5	3.0	1.0	4.5	Chester Lake	656	388.0	390.0	1.5	388.8	386.2	2.6	2.06E-06	1.35E-03	1.3	42,600
MRSP-7	1.0	4.0	3.0	8.0	Chester Lake	455	388.0	396.5	8.5	391.1	386.2	4.9	6.82E-06	3.10E-03	3.1	97,800
MRSP-8	0.0	0.0	3.0	3.0	Delaney Lake	100	395.0	398.5	3.5	396.4	391.0	5.4	7.10E-06	7.10E-04	0.7	22,400
MRSP-9	1.0	3.0	4.0	8.0	Three Duck Lake (middle)	510	381.5	385.5	4	383.4	380.5	2.9	5.79E-06	2.95E-03	3.0	93,100
MRSP-10	1.0	1.5	2.0	4.5	Three Duck Lake (middle)	230	382.0	385.5	3.5	383.4	380.5	2.9	4.46E-06	1.03E-03	1.0	32,300
MRSP-11	1.0	4.0	0.0	5.0	Three Duck Lake (lower)	470	382.0	388.5	6.5	385.1	380.5	4.6	3.28E-06	1.54E-03	1.5	48,700
MRSP-12	0.0	0.0	4.0	4.0	Three Duck Lake (lower)	120	387.5	391.0	3.5	388.8	380.5	8.3	1.47E-05	1.76E-03	1.8	55,500
MRSP-13	1.0	2.0	0.5	3.5	Three Duck Lake (lower)	190	381.0	384.0	3	381.9	380.5	1.4	1.32E-06	2.50E-04	0.3	7,900
MRSP-14	1.0	2.0	0.0	3.0	Unnamed Lake	350	387.5	392.0	4.5	389.8	387.0	2.8	1.91E-06	6.70E-04	0.7	21,100
MRSP-15	1.0	2.0	0.0	3.0	Unnamed Lake	220	388.0	399.5	11.5	393.7	387.0	6.7	5.26E-06	1.16E-03	1.2	36,500

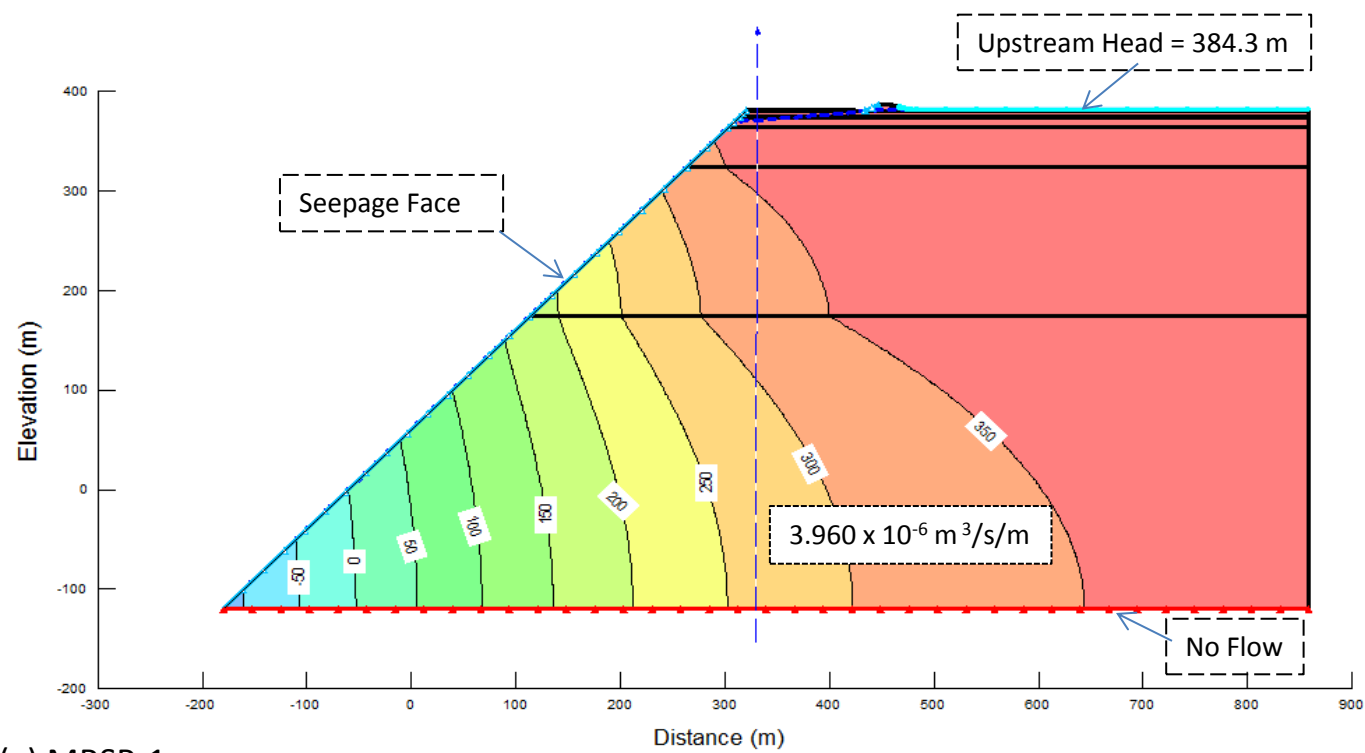


Typical Seepage Model Cross-Section

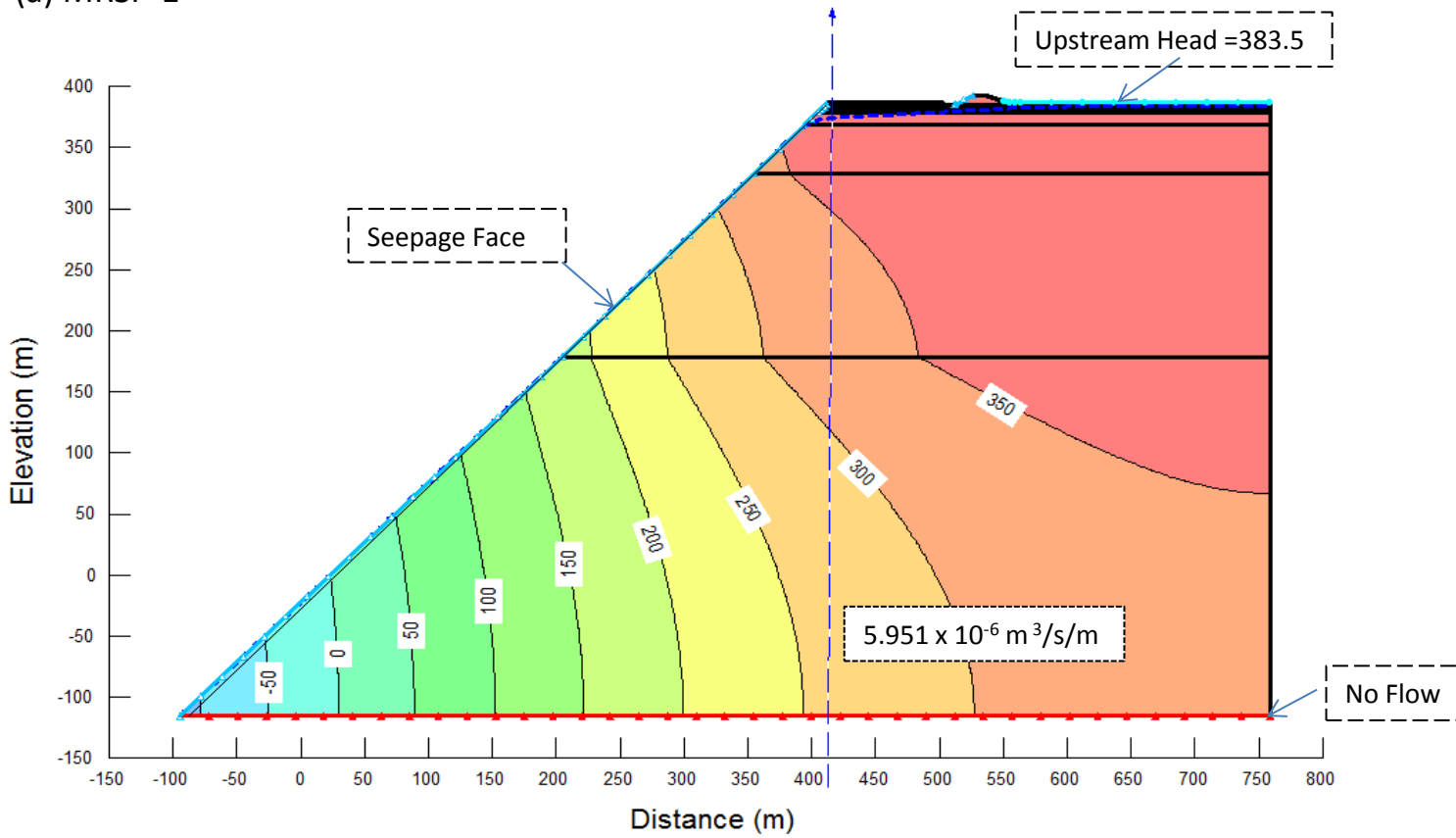
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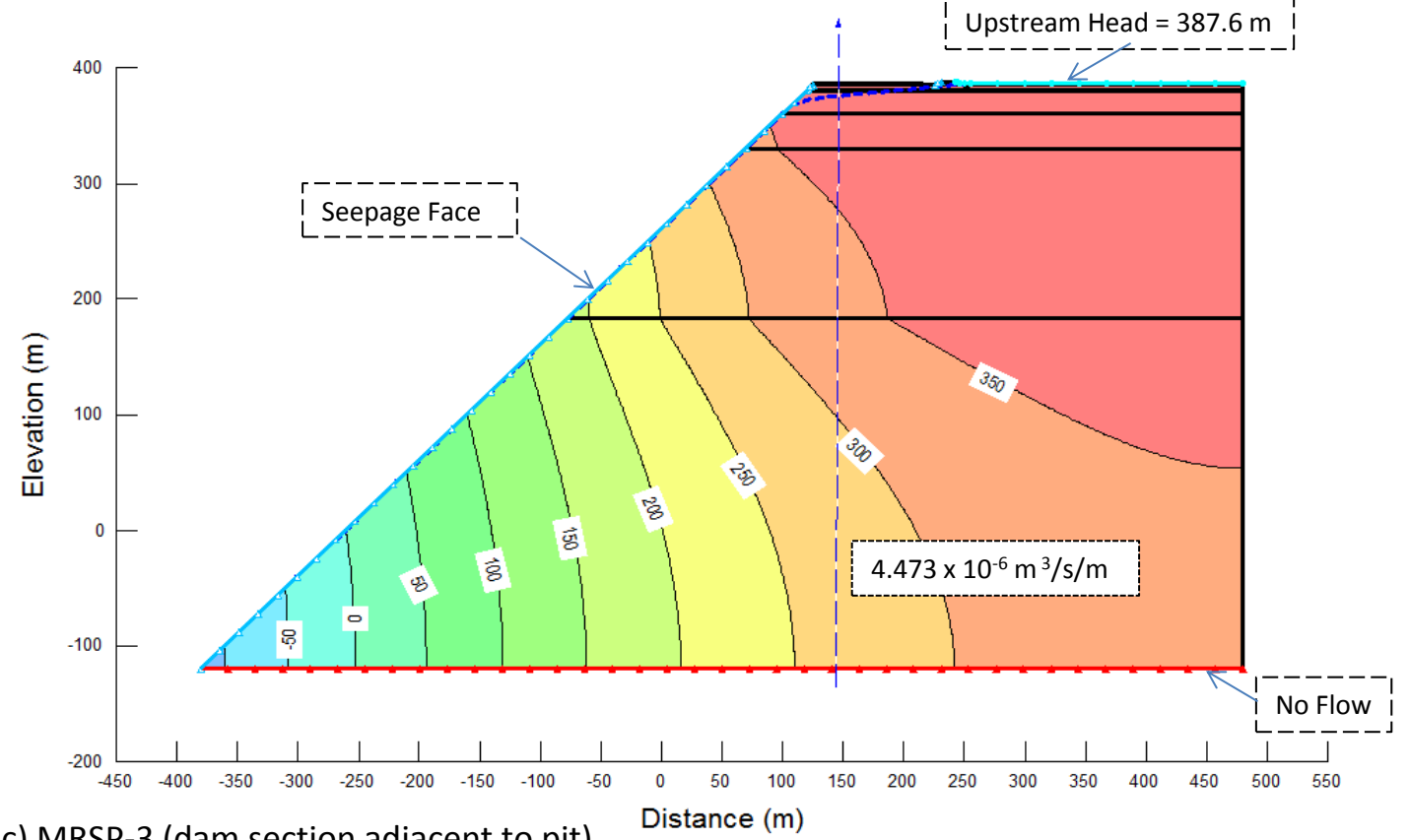
Figure A1



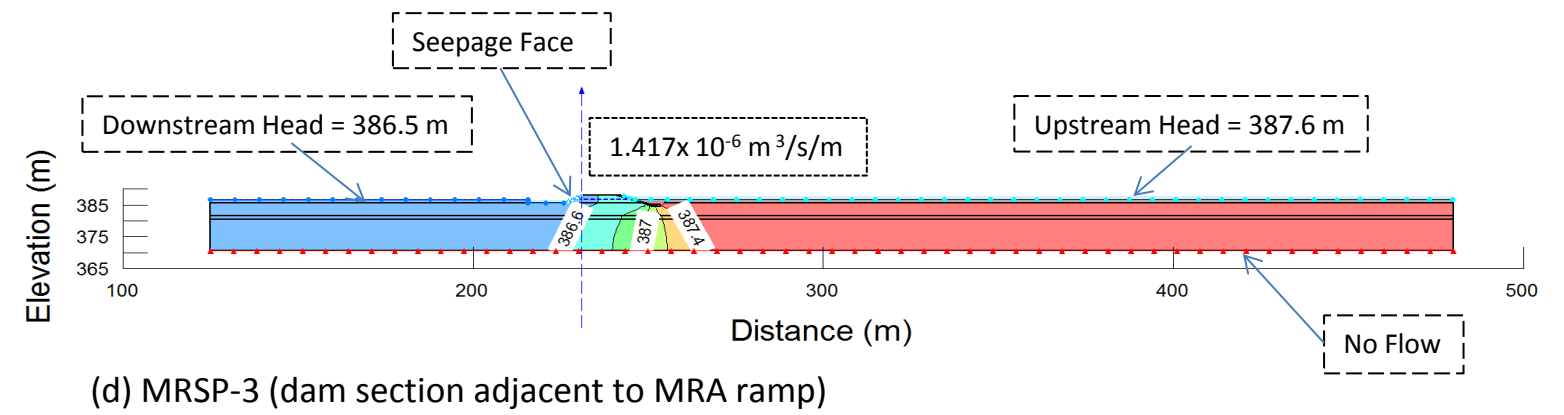
(a) MRSP-1



(b) MRSP-2



(c) MRSP-3 (dam section adjacent to pit)



(d) MRSP-3 (dam section adjacent to MRA ramp)

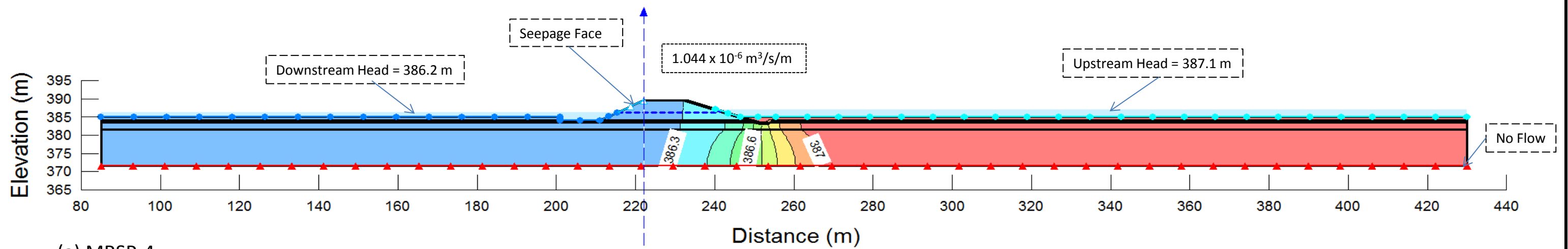
Legend

- Boundary Condition
- Flux
- Flux Section
- Total Head Contours

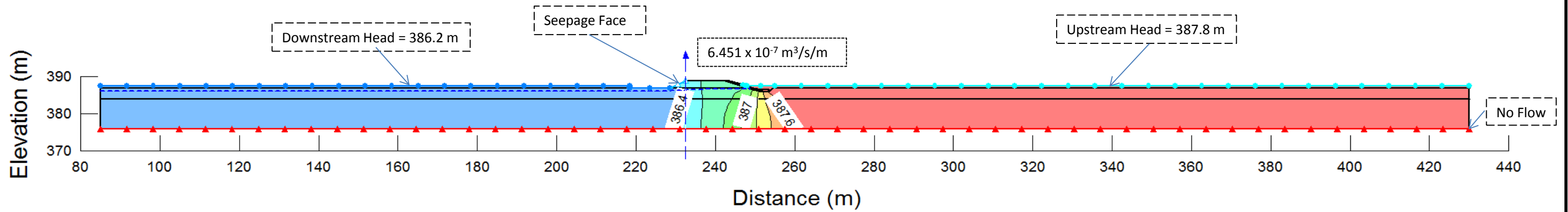


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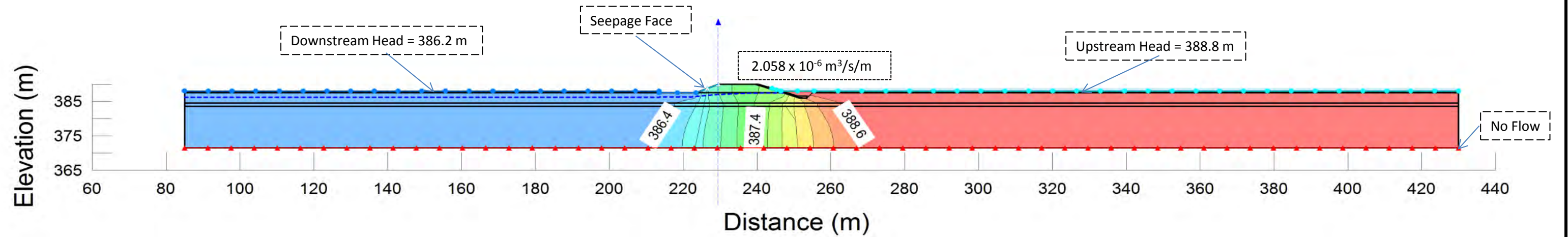
MRSP-1 to MRSP-3 Seepage Analysis Results



(a) MRSP-4



(b) MRSP-5



(c) MRSP-6

Legend

- Boundary Condition
- Flux
- ↑ Flux Section
- Total Head Contours

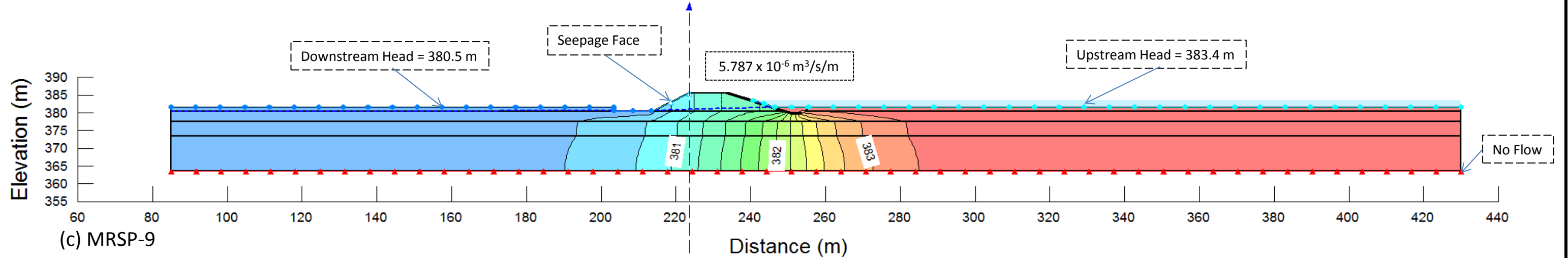
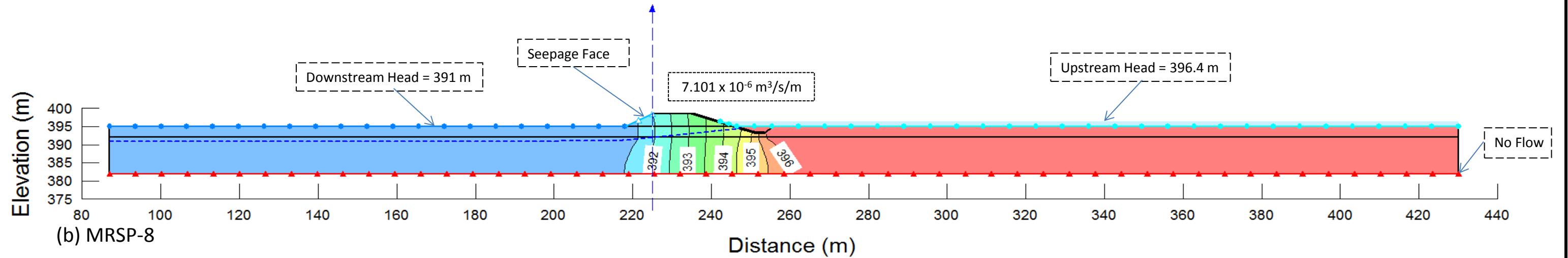
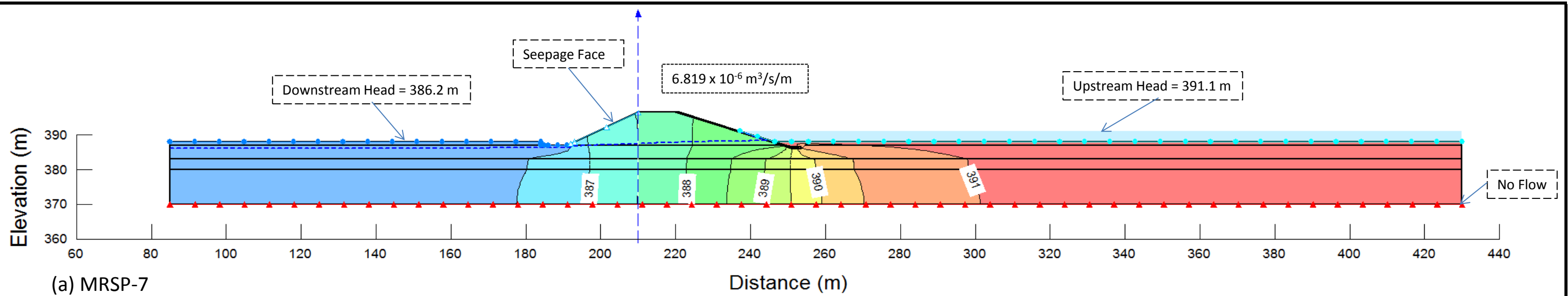


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DESIGN:	DCB/MJT/DCV	REV:	0

MRSP-4 to MRSP-6 Seepage Analysis Results

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Figure A3



Legend

- Boundary Condition
- Flux
- ↑ Flux Section
- Total Head Contours

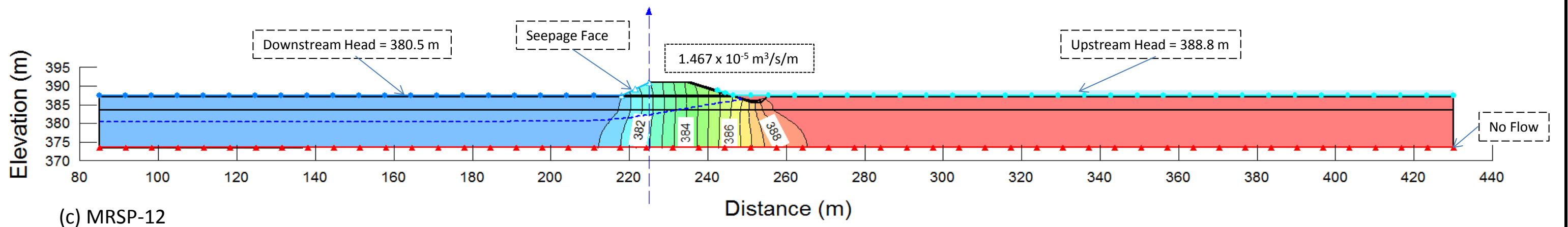
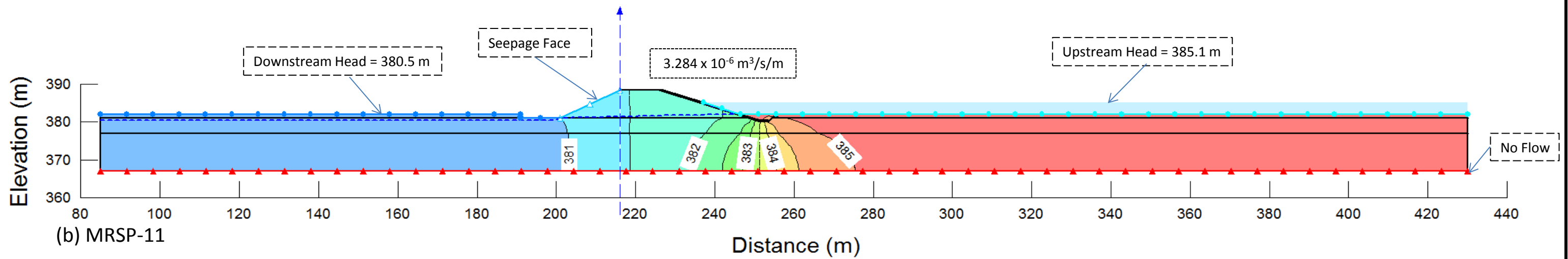
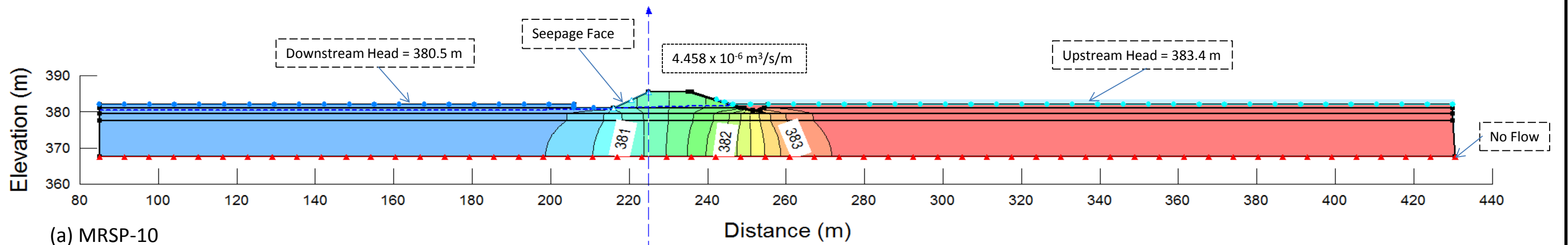


PROJECT:	13-1118-0017 (11000)	DATE:	Jul-13
DESIGN:	DCB/MJT/DCV	REV:	0

MRSP-7 to MRSP-9 Seepage Analysis Results

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Figure A4



Legend

- Boundary Condition
- Flux
- Flux Section
- Total Head Contours

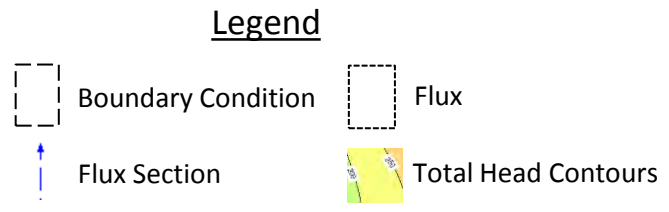
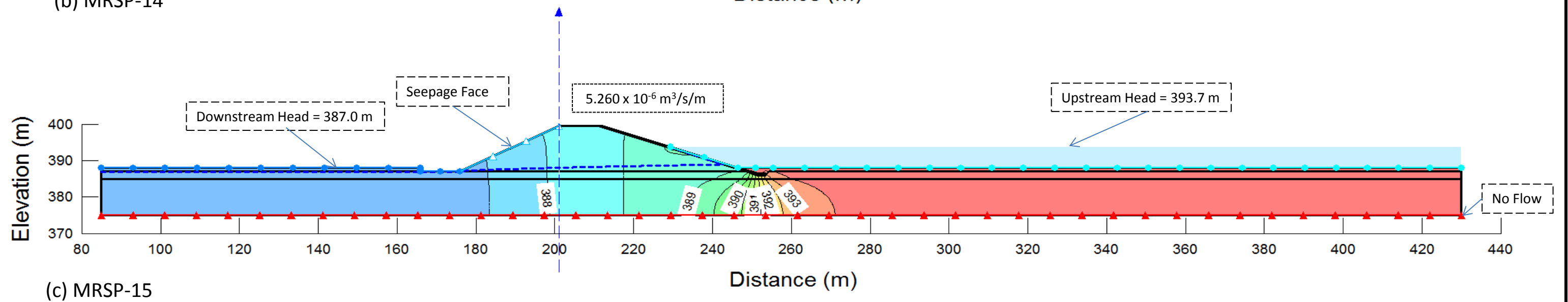
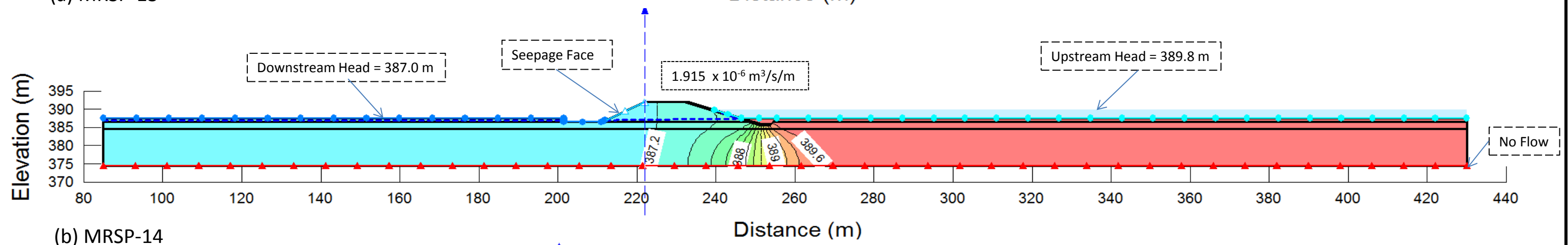
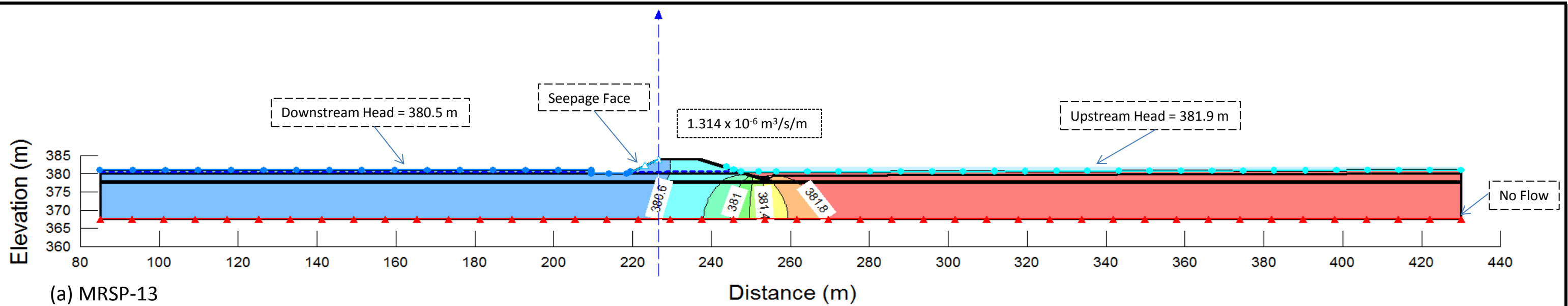


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DESIGN:	DCB/MJT/DCV	REV:	0

MRSP-10 to MRSP-12 Seepage Analysis Results

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Figure A5



PROJECT:	13-1118-0017 (11000)	DATE:	Jul-13
DESIGN:	DCB/MJT/DCV	REV:	0

MRSP-13 to MRSP-15 Seepage Analysis Results

IAMGOLD Côte Gold Project

Figure A6

ATTACHMENT B

DATE October 21, 2014**PROJECT No.** 1400877**FROM** Darrin Johnson, P.Eng.**EMAIL** darjohnson@golder.com**CÔTÉ GOLD PROJECT - TAILINGS MANAGEMENT FACILITY SEEPAGE ANALYSIS**

1.0 INTRODUCTION

To support the Environmental Assessment (EA) water quality predictions for the Côté Gold Project, Golder developed an estimate of the seepage quantity that potentially could bypass the perimeter ditching around the Tailings Management Facility (TMF). A two-dimensional (2D) finite element modelling program, SEEP/W 2007 developed by GEO-SLOPE International Ltd., was used to estimate an average seepage flux through and underneath the TMF dam and the collection efficiency of the perimeter ditching system. This memorandum includes a summary of the seepage modelling methodology and results.

2.0 BACKGROUND

The proposed Tailings Management Facility (TMF) for the Côté Gold Project will have an area of approximately 965 ha and will be designed to store approximately 193.3 M-m³ (261 M-tonnes) of tailings solids. The tailings will be discharged into the TMF at a solids content of about 50% (by weight). Tailings will be discharged from perimeter containment dams towards an internal Reclaim Pond. Water will be transferred from the internal Reclaim Pond to the Mine Water Pond for reuse in the Process Plant. Excess water not required in the Process Plant will be treated and transferred to the Polishing Pond prior to being discharged to the environment. Ditches and sumps will be excavated around the TMF perimeter to collect seepage from the tailings containment dams. Figure 1 presents a plan view of the proposed TMF and perimeter ditching system.

3.0 SUBSURFACE CONDITIONS

Geotechnical information for the TMF area was obtained during drilling and test pit investigation campaigns in 2012 and 2013 (Knight Piésold, 2013a and 2013b). Figure 2 presents the TMF dam centreline profile along with subsurface investigation data.

In general, overburden stratigraphy within the TMF area consists of a thin layer of organics, underlain by layers of silt to silty sand, underlain by gravel and gravelly sand till over bedrock. Overburden depth in low-lying areas between bedrock outcrops along the TMF perimeter was observed in the boreholes to range from 1 m to 8 m with an average depth of about 6 m.

The perimeter collection ditches will be excavated into overburden approximately 1 to 2 m below existing ground surface to provide gravity drainage to the sumps.



Bedrock beneath the TMF generally consists of granite, schist/granite and schist. Granite observed at borehole locations in the TMF area was described as “fresh, light grey, medium to fine grained, massive”. For the purposes of the TMF dam seepage analysis, it was assumed that any weathered bedrock beneath the tailings containment dams would be either excavated or grouted.

The groundwater table approximates the ground surface elevation and is generally shallow in low-lying areas.

4.0 SEEPAGE MODEL DEVELOPMENT

Figure 3 presents a typical cross-section of the tailings containment dam that will be constructed in stages over the operating life of the mine. The starter dam will have a geomembrane liner on the upstream slope to retain process water and reduce seepage during the early years of TMF operation. Tailings deposited from the dam crests into the TMF will provide an upstream low permeability blanket that will reduce seepage beneath the tailings containment dams. Seepage beneath the TMF dams will be collected in perimeter collection ditches along the downstream toe of the dams and will be pumped from sumps back into the TMF. A total of 6 sumps and pump stations will be provided at topographic low points around the perimeter of the TMF dams to collect and pump seepage back into the TMF (see attached Figure 1).

To estimate the seepage beneath the TMF dams and collection efficiency of the perimeter collection ditches, a two-dimensional (2D) seepage model was developed for steady-state conditions. The seepage model was developed for the highest dam cross-section (shown on Figure 4). The model assumed a steady-state infiltration rate of 300 mm/year on the tailings surface (assuming about 38% infiltration and 62% runoff to the internal reclaim pond) and 800 mm/year on the rockfill dam downstream slope. A constant head boundary condition was applied to represent the maximum water level in the internal Reclaim Pond. Hydraulic conductivity values used in the seepage analyses are summarized in Table 1. Hydraulic conductivity values were obtained from packer testing results for bedrock and from monitoring well response tests for overburden materials (reported in the EA Hydrogeology Technical Support Document). Typical saturated/unsaturated hydraulic conductivity functions were used to model the effect of soil suction in the dam.

Table 1: Summary of Hydraulic Conductivity Values

Material	Hydraulic Conductivity (m/s)
Tailings	2.5E-07
Silt / Organics	1.1E-06
Silt and Sand	6.8E-06
Sandy Silt	1.1E-06
Sandy Gravel Till	1.9E-05
Bedrock	2.4E-07

5.0 SEEPAGE ANALYSIS RESULTS

The seepage model cross-section and flux results are illustrated on Figure 4. Seepage analysis results indicate that the perimeter seepage collection ditch system should capture about 96% of the seepage passing beneath the TMF dam for this maximum section. A conservative estimate of the annual seepage from the TMF is made by multiplying the seepage flux rate beneath the dam at the maximum section ($4.04 \times 10^{-6} \text{ m}^3/\text{sec}/\text{m}$) by the perimeter dam ditch length (7000 m) resulting in an estimated total seepage rate of about 893,000 m^3/yr . The

amount of seepage that would bypass beneath the perimeter collection ditch system is estimated to be about 35,000 m³/yr (using a flux rate of 1.57×10^{-7} m³/sec/m and the same conservative assumption). This conservative seepage rate bypassing the perimeter collection ditch system was used in the downstream surface water quality modeling. The corresponding total annual volume of seepage captured by the perimeter collection ditch system is estimated to be about 858,000 m³/yr. It should be noted that actual flow volumes in the perimeter ditches will be higher due to the contribution from surface runoff (i.e., precipitation) from the downstream dam slope and ditch catchment area.

However, seepage beneath the TMF dams will likely be lower than the above rates because they were calculated using seepage flux rates for the maximum dam height and head levels along the full ditch length. Because some dam heights and head levels along the ditch will be lower than the modelled cross-section, the above seepage rates could be reduced by about 25% to account for this. This would reduce the total annual volume of seepage bypassing the perimeter collection ditches to about 26,250 m³/year and the corresponding volume being captured by the perimeter ditches to about 643,500 m³/year. Regardless of the actual seepage rate beneath the TMF dams, the modeling results indicate that the collection efficiency of the perimeter ditch system is about 96%.

The seepage modeling was intended to provide a conservative estimate of annual seepage rates associated with the TMF and the collection efficiency of the perimeter collection ditch system for the purpose of estimating loadings to adjacent surface waters. Actual flow rates in the perimeter ditches and the collection efficiency of the perimeter ditch system will vary from place to place around the TMF because of differences in dam height and foundation stratigraphy. Seepage and ditch flow rates will also vary throughout the year as a result of local runoff to the perimeter ditches and seasonal variability in precipitation and infiltration on the tailings surface.

6.0 CLOSURE

We trust that this technical memorandum meets the current project requirements.

EPT/DCJ/KAB/co

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References

Knight Piésold, 2013a. Report on “Côté Gold Project 2012 Summer Site Investigation Summary” dated January 18, 2013.

Knight Piésold, 2013b. Report on “Côté Gold Project 2013 Winter Site Investigation Summary” dated April 10, 2013.

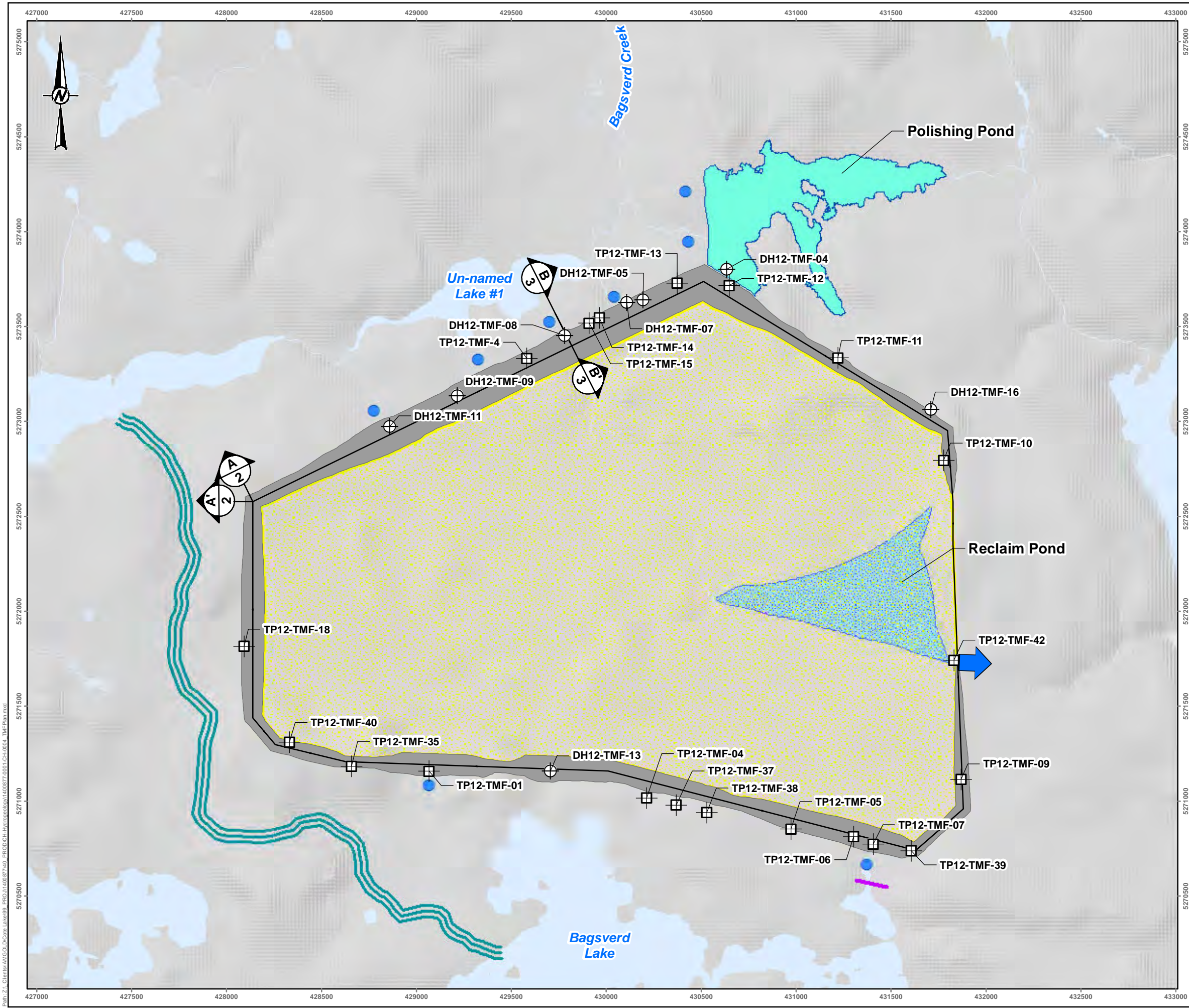
Attachments

Figure 1 – Tailings Management Facility Plan

Figure 2 - Tailings Management Facility Dam Profile

Figure 3 – Typical Tailings Containment Dam Cross-Section

Figure 4 – Tailings Dam Seepage Analysis Results



- LEGEND**
- Borehole
 - Test Pit
 - Tailings Beach Surface
 - Tailings Containment Dam
 - Polishing Pond
 - Reclaim Pond
 - Realignment Dams
 - Watercourse Realignment
 - Seepage Collection Pond
 - Creek / River
 - Waterbodies
 - Emergency Spillway

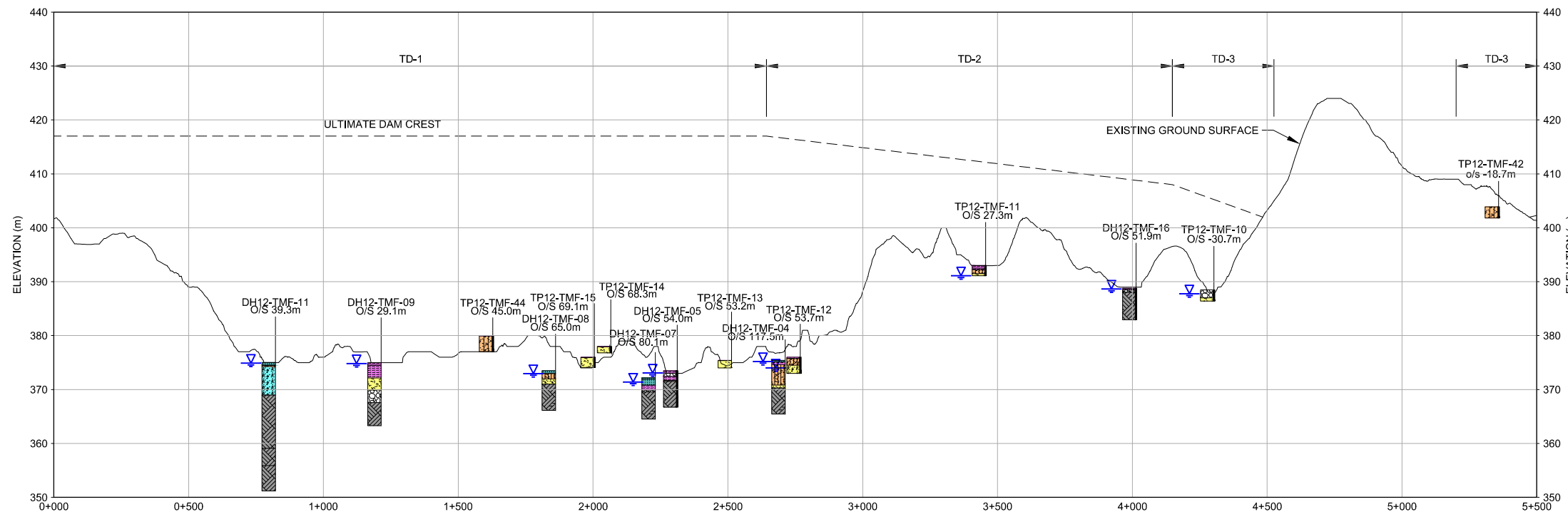
- NOTES**
1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1400877
 2. ILLUSTRATES ULTIMATE FACILITY DEVELOPMENT.
 3. FOR INFORMATION PURPOSE ONLY. NOT FOR CONSTRUCTION

REFERENCE
 CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE – ONTARIO.
[HTTPS://WWW.ONTARIO.CA/GOVERNMENT/OPEN-GOVERNMENT-LICENCE-ONTARIO](https://www.ontario.ca/government/open-government-licence-ontario)
 PROJECTION: TRANSVERSE MERCATOR. DATUM: NAD 83
 COORDINATE SYSTEM: UTM ZONE 17 VERTICAL DATUM: CGVD28

DRAFT



CLIENT IAMGOLD		
PROJECT CÔTÉ GOLD PROJECT		
TITLE TAILINGS MANAGEMENT FACILITY PLAN		
CONSULTANT	YYYY-MM-DD	2014-11-28
	PREPARED	RRD
	DESIGN	RRD
	REVIEW	DCJ
	APPROVED	KAB

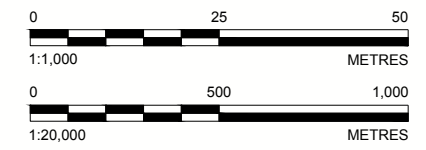
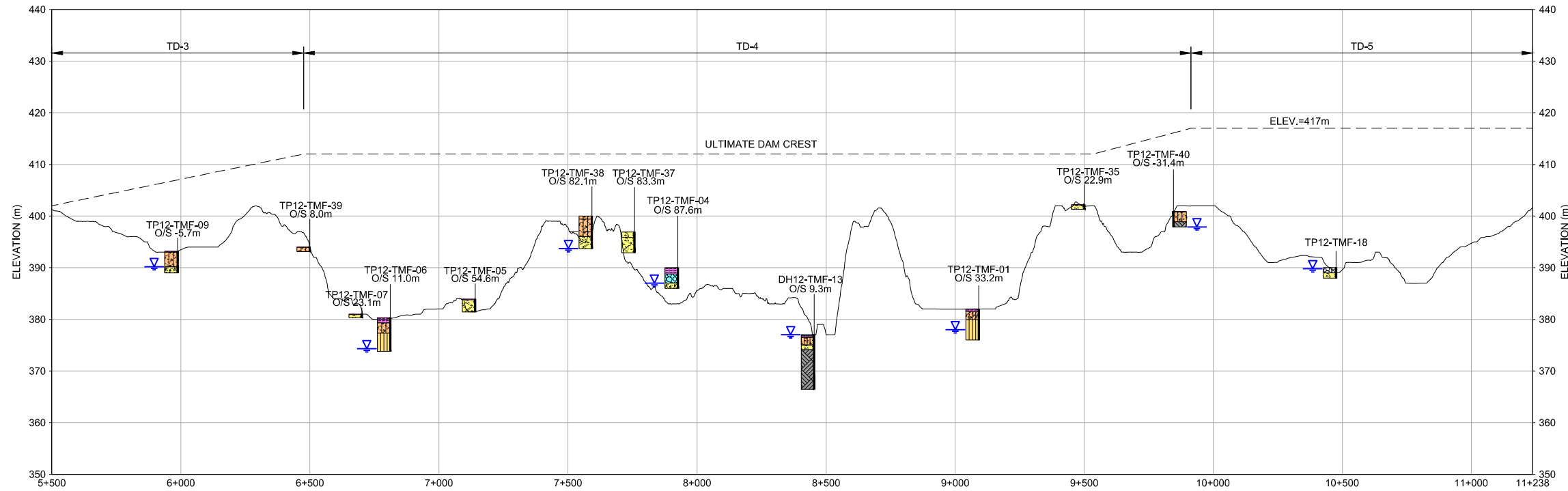


GEOTECHNICAL BOREHOLE LEGEND

- ORGANICS/TOPSOIL
- SAND
- SAND AND SILT
- SILT
- GRAVEL
- BEDROCK
- ICE
- WATER
- BOULDERS/COBBLES
- WATER LEVEL

NOTES:

- (1) REFER TO FIGURE 1 FOR LOCATION OF PROFILE.
- (2) FOR INFORMATION PURPOSE ONLY, NOT FOR CONSTRUCTION.



TMF DAM PROFILE A-A'
HORI. SCALE 1:20,000 VERT. SCALE 1:1,000

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PROJECT
CÔTÉ GOLD PROJECT

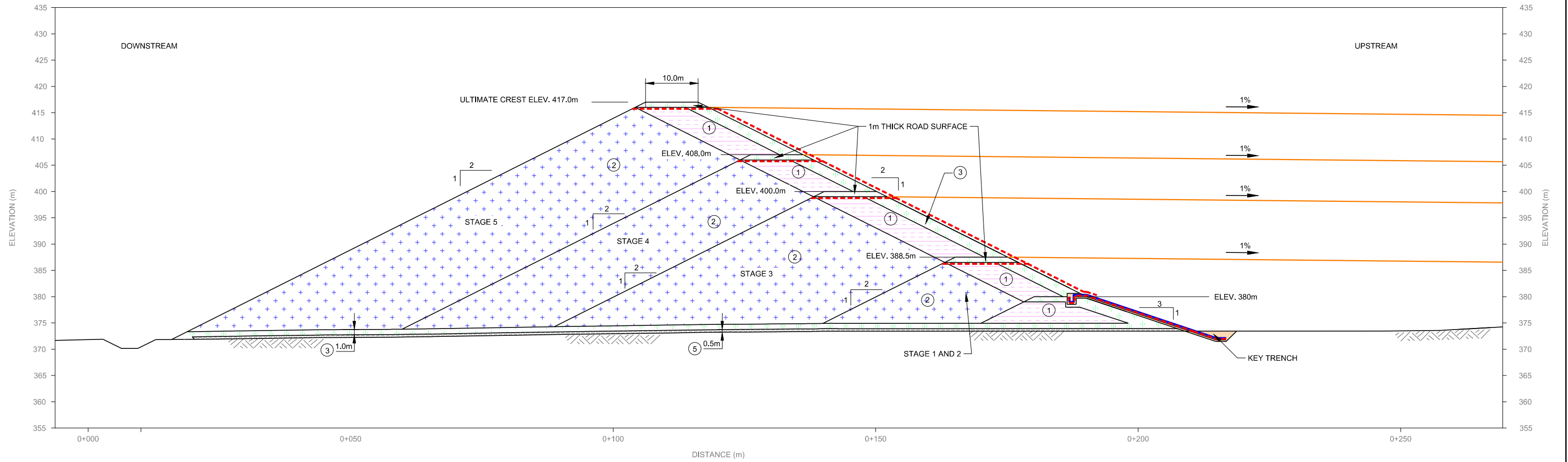
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	DESIGN	EPT
	REVIEW	DCJ
	APPROVED	KAB

TITLE
TAILINGS MANAGEMENT FACILITY DAM PROFILE

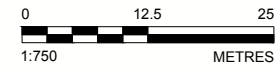
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



SCALE 1:1000 **B** TYPICAL TAILINGS DAM CONTAINMENT CROSS - SECTION **1**



DAM CONSTRUCTION MATERIALS LEGEND

-  HDPE GEOMEMBRANE LINER
-  NON-WOVEN GEOTEXTILE
-  ① SELECT WASTE ROCK (500mm MINUS)
-  ② COARSE WASTE ROCK (1000mm MINUS)
-  ③ PROCESSED WASTE ROCK (150mm MINUS)
-  ④ BEDDING SAND (20mm MINUS)
-  ⑤ BLANKET FILTER (SAND AND GRAVEL)
-  TAILINGS BEACH SURFACE

NOTES:

1. FOR INFORMATION PURPOSE ONLY. NOT FOR CONSTRUCTION.

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CÔTÉ GOLD PROJECT

CONSULTANT



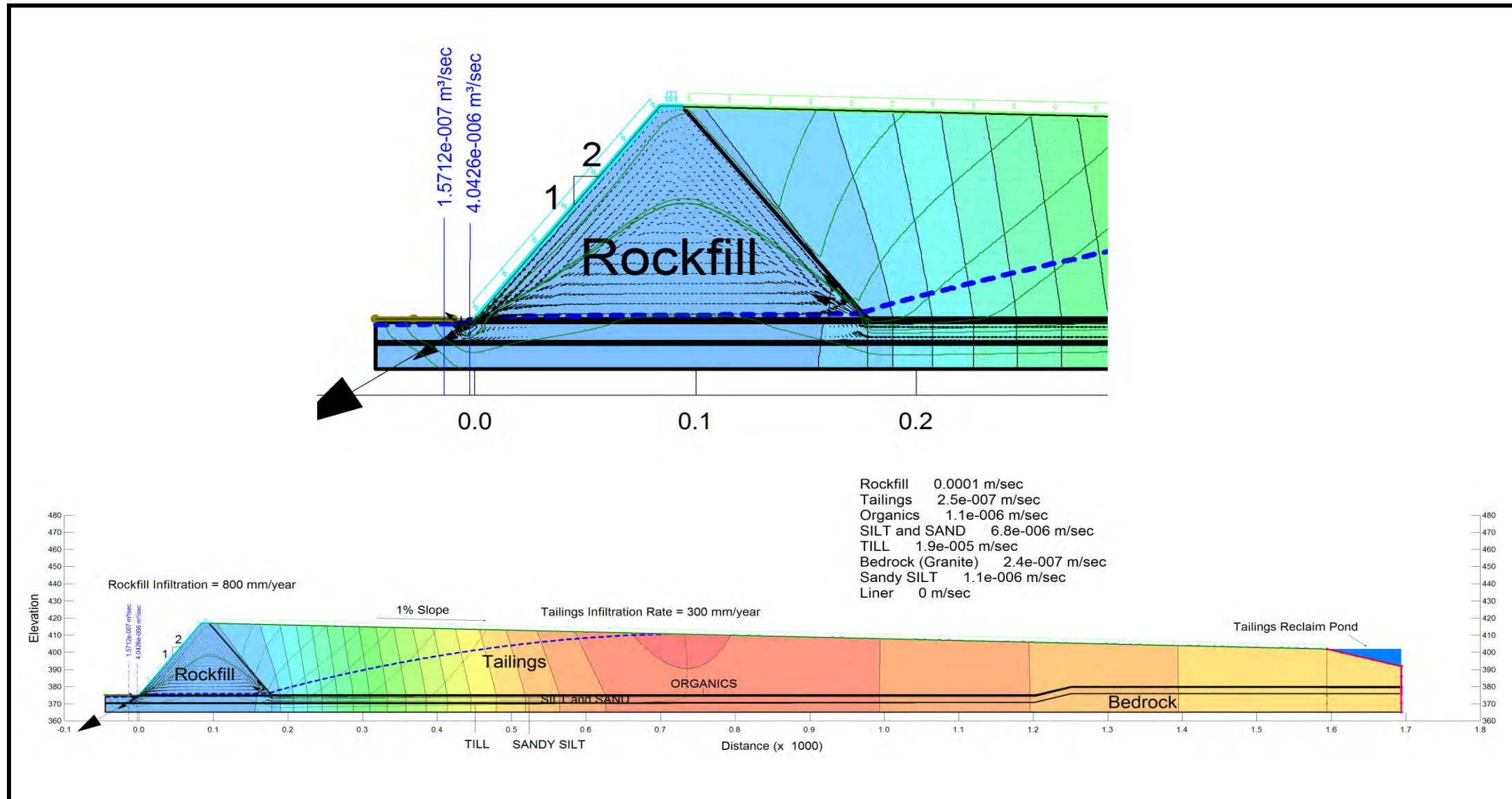
YYYY-MM-DD 2014-09-19
PREPARED MY
DESIGN EPT
REVIEW DCJ
APPROVED KAB

TITLE
TYPICAL TAILINGS DAM CONTAINMENT CROSS-SECTION

PROJECT No. 1400877 PHASE 10000

Rev. ---

FIGURE **3**



			Scale:	N.T.S	Tailings Containment Dam Seepage Analysis (TD-1 Ultimate Stage)
			Date:	Jul-13	
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January 31, 2014

IAMGOLD CORPORATION

CÔTÉ GOLD PROJECT

ENVIRONMENTAL
ASSESSMENT REPORT

TECHNICAL SUPPORT
DOCUMENT:
HYDROGEOLOGY

Version 1

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FINAL REPORT





Executive Summary

IAMGOLD Corporation (IAMGOLD) intends to develop and operate an open pit gold mine and associated facilities and infrastructure in northern Ontario approximately 20 kilometres (km) southwest of Gogama, 130 km southwest of Timmins, and 200 km northwest of Sudbury; this mining project is referred to as the Côté Gold Project (the Project). The landscape is characterized with an extensive tree cover and subdued topography, and is dominated by numerous lakes, streams and wetlands along with extensive bedrock outcrops; typical of northern Ontario. The area has experienced limited historical mining and current activities include forestry, mine exploration and some recreational activities.

Construction phase activities include the construction of surface water realignments comprising dams and excavated channels, dewatering of Côté Lake and overburden stripping in the footprint of the open pit and construction of a Mine Rock Area (MRA) and Tailings Management Facility (TMF). The open pit mine will be excavated to a final depth of 550 m below ground and the MRA and TMF developed to their full extents during the operations phase. These activities have the potential to affect groundwater levels, primarily as a result of groundwater pumping at the open pit. Pumping activities will be discontinued at mine closure although some pumping may continue into post-closure until such time as it is determined that water quality is suitable.

Groundwater levels have been identified as an effects assessment indicator. Project activities, primarily groundwater pumping from the open pit, will result in changes in groundwater levels that could affect the quantity of groundwater discharge to local lakes and streams, dry season stream flows, aquatic habitat and sources of drinking water.

A Local Study Area (LSA) has been defined for the purpose of completing a prediction of the effects on groundwater levels. The LSA extends beyond the sub-watersheds in which the Project facilities and infrastructure are to be located, and extends to the watershed divide between the Great Lakes and James Bay watersheds that lies about 3.5 km southwest of the Project.

Investigations have been conducted since 2012 in order to characterize subsurface conditions. This program has included the drilling of over 150 boreholes, including deep angled boreholes within the footprint of the open pit. Groundwater monitoring wells (single and nested) were installed at 62 locations and a total of 260 test pits excavated. Slug testing and packer testing have been conducted to develop estimates of the hydraulic conductivity of various overburden materials, at a range of depths below the bedrock surface. Laboratory analysis of the grain size distribution of soil samples have also been used to develop estimates of overburden materials. Monitoring of groundwater levels is ongoing including with the use of data loggers and pressure transducers to obtain an hourly record of water level fluctuations.

Hydraulic conductivity estimates for granular overburden materials range to a high of $2\text{E-}03$ m/s with a geomean value of about $9\text{E-}06$ m/s. For the fractured bedrock, hydraulic conductivity estimates ranged up to about $3\text{E-}04$ m/s. Hydraulic conductivity values showed a trend to declining values with depth, generally independent of rock type and rock structure. Where unfractured, a hydraulic conductivity of about $1\text{E-}11$ m/s has been inferred. The geomean hydraulic conductivity declined from $1\text{E-}07$ m/s in the upper 10 m of the bedrock profile to about $2\text{E-}10$ m/s below a depth of 200 m.



The overburden and the upper 50 m of the underlying bedrock comprise the shallow groundwater flow system at this site. The primary groundwater flow path occurs through the granular materials within bedrock troughs. The bedrock troughs have limited lateral extent and an average depth of about 7 m with a maximum observed depth of about 20 m. The troughs are covered with peat deposits and typically occupied with wetlands, marshes or small lakes and streams. Groundwater recharge, through precipitation, occurs primarily on higher elevation ground with groundwater discharge occurring to nearby low lying areas between the bedrock highs. Groundwater levels are higher during the spring freshet and decline through the summer months with fluctuations typically of about 1 m. Given the high water tables over much of the area, the range of annual groundwater fluctuations is limited. Groundwater flow rates in the granular materials are expected to be about 0.3 m/day or less with the direction controlled by the local topography.

The underlying deep groundwater flow system, extending below a depth of 50 m below top of rock, is characterized by flow in discrete fractures with the occurrence of fractures declining with depth. Regionally, the direction of flow in the deep bedrock is generally northeastwards, consistent with the decline in elevation of the major surface water features.

A 3-dimensional groundwater flow model was used to complete a prediction of effects on groundwater levels associated with the construction and operations phase activities, while for the closure and post-closure phases, the prediction of effects has been developed qualitatively.

Predictions of groundwater level declines for the construction phase are limited to the immediate vicinity of the realignment structures, most notably the realignment channels where these have been excavated through higher elevation ground.

For the operations phase, predicted groundwater level declines associated with the dewatering of the open pit do not extend beyond the LSA. At the end of mining, the 1 m drawdown contour is predicted to extend up to 1.4 km to the southwest while elsewhere around the open pit, groundwater level drawdown is generally limited by the presence of lakes and the seepage collection ponds.

At closure, pumping activities will be terminated, and over time, groundwater levels will recover to approximate pre-mining conditions except in the immediate vicinity of water realignment structures where these are to remain in place.

Predictions were also developed for the estimated groundwater inflows to the open pit and for the change in groundwater contribution to adjacent lakes. These predictions are to be incorporated into the effects predictions completed by other disciplines, primarily Hydrology. Groundwater inflows to the open pit are derived primarily from the overburden and shallow bedrock with total inflows remaining relatively constant at about 2,000 to 2,200 cubic metres per day after the first two to four years of mining. The predicted groundwater inflows to the open pit, as derived from each of the surrounding catchments, results in less than a one percent change in the overall water budget for each of the affected lakes on average and a negligible change in lake level as a result of groundwater pumping from the open pit.

Several inherent mitigation measures have been included in the design of the Project, and have been considered in the prediction of effects. The following mitigation measures have been incorporated to reduce effects on groundwater levels as a result of the Project:

- construction of perimeter dams in low lying areas along Clam Lake and the outflow of Chester Lake to minimise inflows to the open pit;



- surface water realignments to minimize risks associated with surface water features in close proximity to an open pit;
- construction of engineered facilities to store mine rock (MRA), low-grade ore (low-grade stockpile) and tailings (TMF);
- construction of engineered water management systems to collect runoff and seepage from the MRA, low-grade stockpile, TMF, and polishing pond;
- contact water that is comprised of inflows and runoff from the pit walls, runoff and seepage from the MRA and low grade stockpiles, and runoff from the plant site will be collected and pumped to the mine water pond;
- contact and process water contained within the collection ponds adjacent to the TMF and polishing ponds will be pumped back into the reclaim pond;
- installation of a liner at the mine water pond; and
- construction of erosion and sediment control measures to promote settling of sediments and mitigate the migration of suspended solids into nearby surface water features.

The monitoring program has been developed to continue the collection of data required to assess changes in groundwater levels prior to and during Project implementation (Construction, Operations and Closure). Specific commitments for conducting this monitoring program are identified below:

- drilling and installation of up to five deep monitoring well nests with screened intervals at up to three depths, at select locations around the perimeter of the open pit to assess the rate and extent of groundwater level changes during pit dewatering and post-closure flooding. These monitoring wells will be completed to depths of up to 100 m below ground, and instrumented with data loggers to obtain continuous records of groundwater levels;
- manual depth to groundwater measurements at select existing monitoring well locations around the perimeter of the open pit;
- manual depth to groundwater measurements at approximately 15 existing well locations and up to 10 new monitoring well locations around the perimeter of the MRA and TMF. Existing wells would be used to the extent possible but additional wells will also need to be installed following construction;
- installation of up to five additional monitoring well nests adjacent to select hydrological monitoring stations to allow for monitoring of interactions between groundwater and surface water; and
- this program is to be integrated with the monitoring programs developed for the Water Quality, Hydrology, Aquatic Biology and Terrestrial Ecology disciplines and documented within their respective TSDs which have been submitted under separate cover in support of the EIS/EA Report.

Annually the results of this groundwater level monitoring program will be integrated with the results obtained from the other disciplines noted above and assessed in consideration of ongoing operational activities, as well as closure and post-closure activities.



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APPENDICES

Attachment I

Hydrogeology Baseline Report, Côté Gold Project

Attachment II

Groundwater Model Report, Côté Gold Project

**ABBREVIATIONS**

°C	degrees Celsius
3D	3-dimensional
AMEC	AMEC Environment & Infrastructure
EA	Environmental Assessment
EAI	effects assessment indicator
EIS	Environmental Impact Statement
ha	hectare
K	hydraulic conductivity
km	kilometre
km/h	kilometres per hour
L/m	litres per metre
LSA	Local Study Area
m	metre
m/day	metre per day
m/s	metre per second
m ²	metres squared
m ³	cubic metres
m ³ /d	cubic metres per day
m ³ /s	cubic metres per second
m ³ /yr	cubic metres per year
mags	metre above ground surface
masl	metre above sea level
mbgs	metre below ground surface
mg/kg	milligrams per kilogram
mm	millimetre
MRA	Mine Rock Areas
MTO	Ministry of Transportation
MRSP	Mine Rock Storage Ponds
Mt	million tonnes
OSSP	Ore Stockpile Seepage Ponds
TDSP	Tailing Dam Seepage Ponds
TMF	Tailings Management Facility
tpd	metric tonnes per day



1.0 INTRODUCTION

This Technical Support Document (TSD) was prepared by Golder Associates Ltd. (Golder) and comprises an Appendix of the Environmental Impact Statement (EIS) of the IAMGOLD Corporation (IAMGOLD) Côté Gold Project (the Project). This TSD presents detailed information on the existing conditions and the predicted environmental hydrogeological effects associated with the Project. Predicted effects on hydrogeology have been incorporated into the effects assessment for the hydrology TSDs as well as that of the aquatic biology TSD. The significance of the assessed effects of the Project related to hydrogeology and associated disciplines are presented in the main body of the EIS.

1.1 Project Overview

IAMGOLD intends to develop the Côté Gold Project in the District of Sudbury, in northeastern Ontario, approximately 20 kilometres (km) southwest of Gogama, 130 km southwest of Timmins, and 200 km northwest of Sudbury (shown on Figure 1-1). The area is characterized by exposed bedrock, gentle hills, forests, lakes and rivers typical of northern Ontario. The Project site is located on two main subwatersheds, the Mollie River system and the Mesomikenda River system. Additionally, the watershed divide between the Great Lakes and James Bay watersheds lies about 3.5 km to the southwest of the Project footprint. Land use in the area consists of recreational activities by locals and tourists, including fishing, camping and hunting. It is also used for sustainable harvesting of timber.

IAMGOLD proposes to construct, operate and eventually rehabilitate a new open pit gold mine and ore processing facility with associated infrastructure.

A complete description of proposed Project activities and infrastructure is presented in the main body of the EIS. For the purposes of the hydrogeological TSD, a brief description of the Project components and associated activities that have the potential to affect the hydrogeological environment is presented below and includes:

- blasting, excavation and dewatering of a 550 metre (m) deep open pit mine, with mining to occur over an approximate 15 year period;
- development of a 450 ha mine rock disposal area (MRA) and associated perimeter runoff and seepage collection facilities;
- temporary storage of low grade ore (low-grade stockpile) located to the northeast of the pit;
- development of a 840 hectare (ha) tailings management facility (TMF), polishing pond and associated perimeter runoff and seepage collection facilities;
- management of site runoff and seepage through the use of collection ponds and the mine water pond located adjacent to the processing plant; and
- realignment of various surface water features and construction of associated dams.

The key Project components are presented in Figure 1-2 and discussed further below.



1.1.1 Open Pit

As part of the proposed development Côté Lake will be drained and the upstream watershed will be realigned around the open pit, including the requirement for dams at some lakes to control seepage in the vicinity of the pit perimeter. This is discussed further in Section 1.1.4.

The current open pit design proposes a final pit area of approximately 210 ha with a depth of approximately 550 m. Open pit mining will occur at a mining rate of approximately 60,000 tonnes per day of ore production. Extraction of the ore through pit development will result in the production of an estimated 20 million tonnes (Mt) of overburden and 850 Mt of mine rock. Water from the open pit will be pumped to the mine water pond.

1.1.2 Mine Rock Area

The MRA is located approximately 250 m southeast of the open pit and occupies an area of approximately 450 ha. The Mollie River, which flows eastwards through this area will be re-aligned to flow north into Clam Lake at the west side of the open pit. A forestry access road (Chester Road) traverses the MRA north to south along the western side of the footprint. A portion of this road will need to be relocated.

The MRA is bounded by Three Duck Lakes to the east, the open pit (formerly Côté Lake) to the northwest, Chester Lake to the west and Delaney Lake to the south.

A series of 15 collection ponds (Mine Rock Storage Ponds; MRSPs) with connecting ditches are to be constructed around the perimeter of the MRA to collect runoff and toe seepage.

1.1.3 Low-Grade Stockpiles

Low-grade ore will be stockpiled to the north of the open pit and east of the processing plant as shown on Figure 1-2. Approximately 2 km of water collection ditches and four water storage ponds will be constructed to collect runoff and toe seepage at the perimeter of the stockpiles, with water pumped back to the mine water pond. Perimeter containment berms, where required for the storage ponds, will be constructed with geomembrane liners and protected with non-woven geotextile to prevent seepage losses to the underlying groundwater table and adjacent open pit.

1.1.4 Tailings Management Facility

The TMF will have an area of approximately 840 ha and will be designed to store approximately 193 million cubic metres (261 Mt) of tailings solids. Tailings dams will be constructed primarily with waste rock and comprise approximately 90 percent of the total perimeter length of the TMF. Tailings will be discharged from perimeter containment dams with drainage directed towards a central Reclaim Pond.

The dam design incorporates approximately 94,200 metres squared (m^2) of geomembrane liner protected by a non-woven geotextile cushion layer to minimise seepage losses from the starter dams.

Seepage losses from the TMF and runoff from the tailings dams will be collected at six Tailings Dam Seepage Ponds (TDSPs) and associated ditches located at the downstream toe of the tailings dams, with the collected seepage water pumped back to the Reclaim Pond.



1.1.5 Mine Water and Polishing Ponds

All contact water from the open pit, the MRA, low-grade stockpile, toe seepage collected at dams in the vicinity of the open pit and runoff from the area of the processing plant and associated facilities will be directed to the mine water pond. This water will be used for ore processing and other demands such as dust control. The mine water pond design incorporates a high density polyethylene geomembrane liner to prevent seepage losses from the pond to the underlying groundwater table and adjacent open pit.

1.1.6 Watercourse Realignment

The local watercourses and lakes, including flow directions in the vicinity of the Project are shown in Figure 1-2. The Project will overprint several water features; these include Côté Lake, and portions of Bagsverd Creek, Bagsverd Lake, Three Duck Lakes, Clam Lake, Chester Lake and the Mollie River. Project construction requires the realignment of Weeduck Lake, Clam Lake, Unnamed Lake #2 and parts of the Mollie River, Bagsverd Creek and Bagsverd Lake.

Watercourse realignments were selected to:

- minimize the overall Project environmental footprint, while at the same time considering economic efficiency of the Project;
- minimize disturbance of the existing water flow regime and existing aquatic habitat, thereby also minimizing disturbance on existing terrestrial flora and fauna;
- minimize disturbance of existing land use; and
- minimize water transfer between subwatersheds.

A total of six realignments are planned, totalling approximately 7.9 km of constructed channels.

To maintain flows within the Mollie River watershed, the outflow from Chester Lake will be diverted northwards via an approximately 2.2 km long constructed channel to Clam Lake. Flow will be directed northwards along the west side of the open pit to Little Clam Lake and then via a short constructed channel to an existing stream and wetland area that drains eastwards to Bagsverd Lake. The southern portion of Bagsverd Lake will be dammed (and isolated from the larger northern portion) with a constructed channel directing flow southward through Weeduck Lake and Three Duck Lakes.

Within the Bagsverd Creek and Bagsverd Lake watersheds in the vicinity of the TMF, the northern portion of Bagsverd Lake will be connected to Unnamed Lake #2 via an approximately 4.3 km long constructed channel. Flow then discharges east to Unnamed Lake #1 and reconnects to Bagsverd Creek immediately north of the TMF.

At closure, the realignment structures are expected to remain in place until the water quality is deemed suitable. At that point in time, it is then envisaged that some dams would be breached.



2.0 METHODOLOGY

The prediction of Project related effects on hydrogeology includes the following tasks, which are further described in following sections:

- identify the Project interactions with the hydrogeology environment;
- define the spatial and temporal boundaries over which the effects prediction is to be conducted;
- select effects prediction indicators that are representative of hydrogeology;
- characterize the existing hydrogeological conditions of the area; and
- predict changes in groundwater levels.

2.1 Effects on Hydrogeology

The primary Project components and associated activities that could potentially affect the hydrogeology include:

- excavation and dewatering of the open pit mine covering approximately 210 ha with a final depth of approximately 550 m;
- construction of realignment dams at lakes adjacent to the open pit and associated toe seepage collection facilities;
- development of a MRA covering an area of approximately 400 ha for stockpiling overburden and mine rock, and associated perimeter seepage collection facilities; and
- development and operation of a TMF covering an area of approximately 900 ha and associated perimeter seepage collection facilities.

The mine water pond is to be constructed with a liner to minimize seepage losses, and the low grade stockpile will have ponds in low lying areas surrounding the stockpile to collect/intercept groundwater. As such, these facilities have not been explicitly considered in the prediction of effects on hydrogeology. Other mine facilities, including the ore processing plant and associated infrastructure, aggregate extraction sites, solid waste disposal facilities (landfill), storage facilities for ore, fuels, chemicals and explosives, and the accommodations complex may also have a minor and localized effect on hydrogeology and have not been explicitly assessed herein.

The locations of the primary Project components are provided on Figure 1-2.

2.2 Study Areas (Spatial Boundaries)

The hydrogeological study areas define the spatial boundaries within which the physical works and activities of the Project could potentially affect hydrogeology. One study area has been selected for the prediction of Project related effects on the hydrogeology: the Local Study Area (LSA). This area is described in the following section. Effects on hydrogeology are not expected to extend beyond the watersheds encompassed by the LSA and, as such, a Regional Study Area has not been defined for hydrogeology for this EA.



2.2.1 Local Study Area

The LSA includes an area beyond the location of the physical works and activities within which effects may occur resulting from the Project. The rationale for the selection of the hydrogeology LSA is that groundwater flow effects from the Project are not expected to extend beyond local watershed boundaries. As such, the LSA extends to the nearest watershed boundary beyond the proposed infrastructure and expected area of effects. The LSA is bounded by the following features:

- the Great Lakes/James Bay Watershed divide along the south and southwest;
- the Upper Mollie River Watershed to the west of the open pit;
- Mesomikenda Lake to the east; and
- the Somme River system associated with the Neville Lake Watershed to the north and northwest.

The Hydrogeology Local Study Area is shown on Figure 2-1. The LSA extends beyond the nearest lakes to a distance of about 3 km to the east, south and west from the area of mine, MRA and TMF, and extends more than 5 km to the north of the TMF.

2.3 Project Phases (Temporal Boundaries)

Project activities and the areas over which these activities are to be conducted vary throughout the Project. Thus the effects of Project related activities also vary throughout the Project phases. In general, effects on the hydrogeological environment are expected to be greatest at the end of mining when the open pit has reached its maximum depth and the TMF and MRA have reached their maximum extents.

Effects on hydrogeology were considered for the following project phases:

- Construction Phase;
- Operations Phase (end of mining); and
- Closure/post-closure.

During the construction phase, realignment dams and surface water channels will be constructed and pumping will be initiated to drain Côté Lake. Pumping from seepage collection facilities at dams and MRA ponds, as well as pumping from the open pit will be continuous thereafter, through to the end of the Operations Phase. The largest effects on groundwater levels will be at the end of mine life when the pit has reached its ultimate depth of 550 m. Pumping from the open pit will be discontinued at mine closure. Pumping at the seepage collection ponds may continue into post-closure until the water quality is deemed suitable.. In post-closure, groundwater levels will recover over time reaching equilibrium levels that approximate pre-mining conditions, except locally at realignment structures that are to remain in place.



2.4 Selection of Effects Assessment Indicators

The effects assessment indicator (EAI) selected for hydrogeology and the rationale for selection of this indicator are presented in Table 2-1.

Table 2-1: Effects Assessment Indicators Selected for Hydrogeology

Effect Assessment Indicator	Rationale for Selection
Changes in groundwater levels	A change in groundwater levels can affect: <ul style="list-style-type: none">■ quantity of discharge to local stream;■ dry season stream flow;■ aquatic habitat including groundwater dependent features such wetlands; and■ sources of drinking water.

Groundwater levels were identified as the EAI for project related effects on hydrogeology. This indicator was identified as important, based on feedback received from consultation and engagement activities conducted by IAMGOLD. Groundwater levels will be affected locally in the vicinity of the key project components by either groundwater pumping or the interception of recharge.

The rationale for selection of the hydrogeology EAI is the role that groundwater plays in supporting aquatic habitat, dry season flow in local streams and as a source of drinking water to supply wells. Groundwater levels are readily measured at monitoring wells and changes in groundwater levels over time may indicate naturally occurring fluctuations and/or reflect the effects of Project related activities and/or facilities. Groundwater pumping will be conducted at the Project; primarily at the open pit. Given the depth of the open pit and the length of mining operations, the greatest effect on groundwater levels will be associated with pumping at the open pit when the pit has reached its maximum extent and depth. Precipitation intercepted at mine infrastructures and facilities will locally reduce the amount of recharge to the groundwater system and may have a minor effect on groundwater levels locally.

2.5 Background Review

Available information was reviewed including previous, NI 43-101 reports, Ontario Ministry of the Environment Water Well Records and Permit to Take Water databases, exploration data from Trelawney and IAMGOLD, and information provided by IAMGOLD. Based on this review, a site inspection and an understanding of the Project Description, a field program was developed and implemented to characterise the hydrogeological conditions at the Project as outlined in the following section.



2.6 Field Study Methods

A total of 150 geotechnical/hydrogeological boreholes were drilled into the overburden and shallow bedrock (less than 20 m into bedrock) at 118 locations throughout the Project site. Borehole locations were selected to provide representative coverage of the area, primarily considering the locations considered for the mine facilities, the need to determine subsurface conditions and the likely groundwater flow pathways.

Groundwater monitoring wells (single and nested) were installed at 62 of these locations. Monitoring wells were generally installed with screened intervals in the shallow bedrock and overburden (where present) and range in depth from approximately 0.5 m to 33 m. Six angled drillholes were advanced into the deep bedrock (up to 600 vertical metres into bedrock) within the open pit for hydrogeological characterization of major lithological units and structural features. A total of 260 test pits were excavated to investigate subsurface conditions around the open pit area and TMF.

Estimates of hydraulic conductivity of the overburden and bedrock were developed from grain size analysis data (Hazen method), single well rising head and falling head response tests (slug tests) in monitoring wells, and packer testing in boreholes and drillholes. Groundwater levels were monitored at approximately 50 monitoring well locations in the spring, summer and fall of 2012 and 2013 by manual measurement of depth to groundwater. A continuous record of groundwater fluctuations was obtained at 20 locations with data loggers and pressure transducers set to record water pressures hourly. Data loggers were downloaded regularly (three times annually) and data was corrected for barometric pressure using a barologger installed at the site.

Borehole and monitoring well locations are shown on Figures 2-2 and 2-3. Test pit locations are shown on Figures 2-4 and 2-5.

The baseline characterisation study conducted at this site is provided in Attachment I.

2.7 Effects Prediction

A three-dimensional (3D) groundwater flow model was constructed in MODFLOW based on the conceptual understanding of the hydrogeology developed from the baseline characterisation and detailed below in Section 3.3.4. Details of the model construction, boundary conditions, assumptions and results of simulations performed, including sensitivity analyses, are provided in a Côté Gold Project Groundwater Model Report included herein as Attachment II.

The model incorporated the open pit, the MRA and associated seepage collection ponds, as well as the dams located at the perimeter of the open pit and the water course realignments. The TMF was located sufficiently far from the open pit to avoid being affected by pit dewatering, and thus has not been explicitly represented in the model. Also, given that the mine water pond is to be lined to minimise seepage losses, this facility was also not explicitly represented in the model.

Model simulations were completed for the existing conditions. This model was modified to incorporate construction phase activities, comprising the water course realignments and dams located in the vicinity of the open pit, as well as the dewatering of Côté Lake. Simulations were then completed and predictions were developed for effects associated with the Construction Phase activities. The model was further modified to incorporate operations phase activities comprising the staged deepening of the open pit and the full footprint of



the MRA and associated seepage collection ponds. Simulations were then completed and predictions developed for effects associated with the Operations Phase.

Effects predictions were developed qualitatively for the closure/post closure phases of the Project.

The model results were also used to predict changes in groundwater discharge to adjacent lakes; with this information being considered in the effects prediction for Hydrology (see Hydrology TSD; Golder 2013). The model results were also used to predict groundwater inflows during excavation of the open pit. This information is being considered in the water management plan being developed by IAMGOLD.

3.0 EXISTING CONDITIONS

3.1 General Setting

The Project is located approximately 3.5 km north of the Great Lakes/James Bay watershed divide. Drainage pathways from the Project site direct water northeast to Mesomikenda Lake or southeast the Mollie River, both of which discharge to Minisinakwa Lake and subsequently to the Mattagami River. Located in the Boreal Shield ecozone of Ontario, the climate of the Project site is characterized by cold winters (-10°C to -35°C) and warm summers (10°C to 35°C).

A number of lakes, connected by relatively short streams, are present on the Project site. The Mollie River, that is fed by Chester and Clam Lakes to the west, flows eastward through the open pit footprint and connects Côté Lake to the Three Duck Lakes system immediately to the east. Lake elevations decrease from about 386 metres above sea level (masl) at Clam Lake to the west, to 381 masl at Three Duck Lakes reflecting the low topographic gradient eastwards across the area of the proposed open pit. To the north of the pit footprint, Bagsverd Lake drains northward through Bagsverd Creek that discharges into Mesomikenda Lake to the east. Lakes are typically shallow (commonly less than 10 m deep) with bedrock-lined shorelines.

The landscape in the Project area displays relatively subdued topography dominated by rocky knobs interspersed with shallow bedrock-rimmed lakes, streams and wetlands (bogs and fens) in adjacent low-lying areas. Topographic highs are typically comprised of exposed bedrock or a veneer of granular soil covered with mixed boreal forest. Low-lying areas are often poorly drained bogs and fens with surficial peat deposits. Elevations at the Project site range from about 350 masl to 410 masl.

Aside from some forestry activities, there is limited development in the Project footprint and no recorded water supply wells are present on the Project aside from the IAMGOLD camp supply well located east of Mesomikenda Lake.

Prospecting, exploration drilling and limited underground mine development have been conducted sporadically in the area beginning in about 1900. In the 1930s and 1940s, a shallow shaft was sunk with limited production at the Young-Shannon property (now identified as the Chester 2 project) located immediately east of Côté Lake. Between 1986 and 1989, an exploration decline was developed for the Chester 1 project, located about 3 km east of Côté Lake. This decline was recently dewatered and pumped at a rate of about 300 litres per minute (L/min) to maintain dewatered conditions. Pumping has since been discontinued.



3.2 Regional and Local Geology

The Project is located in a narrow greenstone belt of the Ridout syncline that extends from the southeast corner of the Swayze greenstone belt. The Chester Granitoid Complex, which hosts the Côté Gold deposit, was emplaced along the southern margin of the Ridout syncline. Breccias developed as the intrusive contacts and provided a pathway for hydrothermal alteration fluids and the mineralizing fluids. The host granitoid rocks locally consist of tonalite and quartz diorite. As reported by IAMGOLD geologists, gold mineralization is disseminated (porphyry style) and also occurs along the quartz veining.

The baseline characterisation study conducted at this site is provided in Attachment I. The following discussion is taken from this baseline study.

3.2.1 Overburden Geology

The area is characterised by peat deposits often overlying granular deposits that occupy troughs or valleys between extensive bedrock outcrops. Overburden deposits throughout the Project site are generally discontinuous and no continuous overburden aquifer was observed. Within the Project area, bedrock is encountered typically within a 4 m depth of ground surface with the greatest depth to rock of 22.6 m observed. East of the Project site, glaciofluvial ice-contact deposits, including esker, kame and moraine material has been mapped in a narrow north-south band near the eastern boundary of Chester Township.

Overburden materials encountered in boreholes and test pits at the site include: organics/peat; clay; clay/silt; silt/clay; silt; silt/sand; sand/silt; sand; sand/gravel; gravel; gravel/cobbles; and till.

In the area of the planned open pit, the overburden deposits are generally confined to relatively narrow and steep sided bedrock valleys or troughs. The overburden is typically comprised of granular materials, sand or sand and gravel in the lower portion of these troughs that are covered with finer grained materials that may include silt, along with peat and/or organic material exposed at ground surface. Where present, the depth of overburden averages about 7.7 m with the maximum depth to bedrock of 22 m observed at borehole DH12-PO-22 along the Mollie River near the southeast perimeter of the pit. A geologic cross-section extending around the pit perimeter (Figures 3-1 to 3-4) shows extensive bedrock outcrop and the limited occurrence of overburden materials present.

Similar conditions are present near the MRA. Overburden where present, has an average thickness of about 9.3 m with the greatest thickness of 22.6 m observed at the eastern side along the shore of Three Duck Lakes (Middle).

The central portion of the TMF area is dominated by low-lying swampy terrain with areas of higher elevation at the perimeter. Overburden thickness in the low-lying areas averages about 5.5 m with the greatest depth observed being 17.7 m along the edge of a tributary in the north portion of the TMF area.

Regional mapping of overburden geology, details on stratigraphy and borehole logs are presented in Attachment I; Figure 8.



3.2.2 Bedrock Geology

The Project site is situated in the Swayze Greenstone Belt within the southwestern extension of the Abitibi greenstone belt of the Superior Province. The Swayze Greenstone Belt includes a diversity of extrusive and intrusive rock types. Compositions of rock types range from ultramafic through felsic, as well as both chemical and clastic sedimentary rocks. Igneous rocks mainly consist of both volcanic and plutonic rocks.

Bedrock in the area of the planned open pit is comprised principally of tonalite, diorite, breccias, diabase dykes and mafic dykes. The tonalite rock type is the host for the gold deposit and the diorite forms a series of lenses within the deposit. The breccias consist of both tonalite and diorite developed at the contacts and is thought to be associated with the disseminated gold mineralization. The gold mineralization is also closely associated with disseminated sulphides in the dioritic matrix of the breccias and breccia clasts, as well as sulphide veins, veinlets or fracture coatings.

Regional mapping of bedrock geology is provided in Attachment I; Figure 9.

3.3 Hydrogeology

3.3.1 Hydraulic Conductivity

Estimates of hydraulic conductivity (K) values of the overburden materials and bedrock have been developed from the following:

- slug tests of overburden and shallow bedrock (upper 10 m) conducted in monitoring wells;
- packer tests of shallow bedrock in boreholes in the TMF area; and
- packer tests in deep angled drillholes within the open pit area.

Estimates of hydraulic conductivity of the overburden and bedrock are provided in Tables 3-1 and 3-2 respectively.

Table 3-1: Summary of Overburden Hydraulic Conductivity Estimates

General Overburden Category	Material Type	Grain Size Results (Hazen Method)			Slug Test Results		
		Number of Tests	Hydraulic Conductivity		Number of Tests	Hydraulic Conductivity	
			Measure	K (m/s)		Measure	K (m/s)
Coarse Granular	TILL	n/a			13	Max	2.5E-03
		n/a				Min	1.2E-06
		n/a				Geomean	1.9E-05
	GRAVEL, GRAVEL/SAND, SAND/GRAVEL	42	Max	1.E-03	15	Max	3.6E-04
			Min	1.E-06		Min	5.7E-06
			Geomean	2.E-05		Geomean	4.7E-05
Fine Granular	SAND	67	Max	6.E-04	13	Max	9.5E-05
			Min	1.E-06		Min	8.5E-08



General Overburden Category	Material Type	Grain Size Results (Hazen Method)			Slug Test Results		
		Number of Tests	Hydraulic Conductivity		Number of Tests	Hydraulic Conductivity	
			Measure	K (m/s)		Measure	K (m/s)
	SAND/SILT, SILT/SAND	54	Geomean	2.E-05	11	Geomean	5.7E-06
			Max	3.E-05		Max	1.4E-05
			Min	4.E-07		Min	7.1E-07
		Geomean	1.E-06	Geomean		4.3E-06	
Fine Grained	SILT		n/a		4	Max	1.8E-06
			n/a			Min	3.7E-07
			n/a			Geomean	1.1E-06

Notes:
 m/s – metres per second
 n/a – not applicable'

Estimates of bedrock hydraulic conductivity from packer tests and slug tests are summarized on Table 3-2. This table presents the range and geometric mean hydraulic conductivity for four bedrock depth intervals below top of rock as follows:

Table 3-2: Bedrock Hydraulic Conductivity Profile

Depth (mbtor) ⁽¹⁾	Number of Tests	Estimated Hydraulic Conductivity	
		Measure	K (m/s)
0 – 10	56	Max	3.4E-04
		Min	1.0E-11 ⁽²⁾
		Geomean	1.0E-07
10 – 50	22	Max	6.7E-06
		Min	1.0E-11 ⁽²⁾
		Geomean	4.6E-08
50 – 200	36	Max	4.0E-06
		Min	1.0E-11 ⁽²⁾
		Geomean	3.0E-09
Over 200	57	Max	5.5E-08
		Min	1.0E-11 ⁽²⁾
		Geomean	2.6E-10

Notes:
 (1) mbtor refers to depth provided in metres below top of bedrock surface
 (2) Hydraulic conductivity values of 1.0E-11 m/s were assumed where no measurable flow was recorded during packer testing
 m/s – metres per second



Sand and granular tills observed at depth in a number of boreholes, particularly in the low-lying areas along the Mollie River and Bagsverd Creek valleys, were the most permeable materials encountered.

The rock mass in the area of the pit exhibits moderate to low hydraulic conductivity values that decrease with depth. Test data indicate that the bedrock structure and rock type exert little to moderate influence on bedrock hydraulic conductivity.

3.3.2 Groundwater Elevations and Flow

The depth to groundwater observed between May 2012 and September 2013 at monitoring locations throughout the Project site was generally less than 1 m below ground surface (mbgs). Depths to groundwater ranged from 6.1 mbgs at areas of higher elevation and/or steeper topography to greater than 1 m above ground surface (mags) (groundwater discharge) at lower elevations near wetlands and surface water features. Groundwater elevations show limited seasonal variation primarily because groundwater levels are close to ground surface and fine grained overburden materials predominate at the surface.

Groundwater elevations provide a subdued reflection of the local scale topography, ranging from over 397 masl to less than 370 masl and generally declining to the northeast and southeast, consistent with the decline in lake elevations eastwards across the site.

A continuous aquifer system has not been identified within the overburden in the Project area. Rather, groundwater flow directions are controlled by the local topography with flow from higher elevation areas to nearby immediately adjacent wet or low-lying areas.

For the range of hydraulic conductivities and local scale hydraulic gradients, groundwater velocities are estimated to range from a high of 0.3 metre per day (m/day) to lows of less than 0.005 m/day.

3.4 Conceptual Hydrogeological Model

A conceptual hydrogeological model has been developed for the LSA based on the available data, site walkovers and the investigations completed. This conceptual model provides the basis for the development of the 3D numerical groundwater flow model used for the predictions of effects on groundwater levels. The conceptual hydrogeological model of the LSA comprises two groundwater flow systems as follows:

- shallow groundwater flow system; and
- deep bedrock groundwater flow system.

The following discusses each of these flow systems in terms of the hydraulic conductivity, flow directions and interactions with the surface environment.

3.4.1 Shallow Flow System

The upper section of the bedrock, and the overburden where present, comprise the shallow active flow system at the site extending to a depth of about 50 m below the top of rock.



The overburden is restricted to generally narrow discontinuous valleys or troughs between bedrock highs, including extensive outcrops that are present over much of the area. These troughs were observed to be up to a maximum depth of 22 m and comprise swampy areas or wetlands that are underlain by fine grained material consisting of silt or sandy silt that in some locations is underlain by coarse granular material

The underlying bedrock is variably fractured and shows a weak trend to decreasing fracture occurrence with depth.

The granular materials encountered in the base of some troughs are the most permeable materials at this site with the hydraulic conductivity ranging up to a high of $2\text{E-}03$ m/s observed at monitoring well DH12-TMF-25B along the northern portion of Bagsverd Creek. Typically the hydraulic conductivity of the overburden materials ranges from about $8\text{E-}08$ m/s to $2\text{E-}03$ m/s with a bulk geometric mean of about $9\text{E-}06$ m/s.

Highly decomposed peat deposits typically have a low permeability and effectively isolate the underlying material from the surficial wetland peat environment. Hydraulic conductivity values in the range of 10^{-7} m/s are reported elsewhere in Northern Ontario for such materials, described as the catotelm (Letts et al 2000).

The hydraulic conductivity of the bedrock is controlled by the occurrence and continuity of open fractures and a weak trend to declining values with depth has been observed, primarily in the area of the open pit. Test data developed show the fractured rock has moderate hydraulic conductivities, with a geometric mean of $1\text{E-}07$ m/s and ranging between $1\text{E-}11$ m/s to $3\text{E-}04$ m/s. The highest hydraulic conductivity in bedrock ($3\text{E-}04$ m/s) was measured in the in the upper 10 m of rock. Highs of about $7\text{E-}06$ m/s were measured at depths between 10 m to 50 m below the top of rock. Where weakly fractured or unfractured, much lower hydraulic conductivity values of about $1\text{E-}09$ m/s or less were reported.

Groundwater flow directions are controlled by the local topography with recharge at local highs and discharge to intervening low lying areas, lakes and surface water features. The presence of wet and low lying areas between the many bedrock knobs (outcrops) indicates numerous areas of groundwater discharge. Groundwater flow paths are of limited lateral extent.

Groundwater levels in the low lying area are typically close to ground surface or even above ground levels, and show a limited range of seasonal fluctuation. Seasonally high groundwater levels are observed during the spring freshet with a decline through the summer months. A greater depth to groundwater is observed beneath bedrock highs with a more subdued seasonal fluctuation reflecting the less permeable bedrock relative to the granular overburden deposits.

As discussed above, given the extent of exposed bedrock, and the extent of fine grained overburden materials with high water tables, recharge to the groundwater system is expected to be low and likely not more than 50 mm/yr. Much of this infiltration would discharge to nearby wetlands and surface water features locally. Groundwater flow paths are expected to be short with flow directions controlled by the bedrock topography locally. Groundwater velocities as high as about 0.3 m/day could be expected in the granular materials.

3.4.1.1 Groundwater – Surface Water Interactions

Groundwater flow is controlled locally by the presence of numerous lakes, streams and wetlands. Groundwater recharge occurs on the higher ground, typically comprised of bedrock, with discharge to nearby low areas and wetlands. The low lying wetland areas are typically characterised by ponds and open water marshes with



intervening short steams. These low-lying areas receive infiltration through precipitation and during the spring melt. Groundwater discharge to local surface water features from these low lying areas is generally slowed by low gradients, presence of ponded areas and occasional beaver dams. The seasonal decline of lake elevations and the presence of occasional beaver dams also have a significant effect on groundwater-surface water interactions. In this setting, the groundwater contribution to the stream flow is masked by the slow drainage of these surface water features.

The rate of recharge to the groundwater system is expected to be low, in the range of 50 millimetre per year or less; reflecting the presence of bedrock on the higher elevation ground and near surface groundwater levels in the wetland areas. An estimate of groundwater recharge cannot reasonably be developed from the analysis of stream flow hydrographs because of the slow release of lake storage, and water temporarily held in storage in ponded and wetland areas along with low hydraulic gradient across the Project area.

3.4.2 Deep Bedrock Flow System

Below a depth of about 50 m below the top of rock, the occurrence of fractures decreases and low hydraulic conductivities of about 10⁻⁸ m/s or lower, are typically reported. Groundwater flow occurs through joints and fractures where these are present. Where unfractured, the rock mass has a very low hydraulic conductivity of less than 10⁻¹⁰ m/s and is essentially impermeable.

Given the low permeability and limited occurrence of fractures within the deep bedrock flow system, only a small portion of the recharge migrates to depth within the bedrock. Groundwater flow rates in the deeper bedrock are expected to be very low, with a general northeastwards flow direction, consistent with the decline in elevation regionally, of the major surface water features.

3.5 Simulation of Existing Conditions

As described in Section 2.7 and detailed in Attachment II (Côté Gold Project Groundwater Model Report), a 3D groundwater flow model of the Hydrogeology LSA, including the Project site, has been constructed. Model construction has been based on the conceptual hydrogeology model presented in Section 3.4 above.

Model simulations were completed for the existing conditions. The simulated water table for the existing conditions is shown on Figure 3-5. Model estimates of the net groundwater inflows to lakes in the vicinity of the open pit are presented in Table 3-3 below.

Table 3-3: Net Groundwater Inflow to Lakes – Existing Conditions

	Clam Lake Net Inflow ^(a) (m ³ /d)	Chester Lake Net Inflow (m ³ /d)	Three Duck Lakes Net Inflow (m ³ /d)	Weeduck Lake Net Inflow (m ³ /d)	Bagsverd Lake Net Inflow (m ³ /d)
Existing Conditions	400	1,960	1,230	91	640

Notes:

^(a) Includes both Clam Lake and Little Clam Lake
m³/d – cubic metres per day



4.0 PREDICTION OF EFFECTS

4.1 Predicted Change in Groundwater Levels

4.1.1 Construction Phase

Predicted changes to groundwater levels for Construction Phase activities are limited to the immediate area of the realignment structures and excavated channels as shown on Figure 4-1. The excavation of a constructed realignment channel through high ground around the west side of the TMF will cause a decline in groundwater elevations locally of up to 10 m. However, it should be noted that water level declines due to the stream realignments are likely overestimated in the model; due to the coarseness of the model cells (100 m x 100 m) and the limited capacity of the model to resolve steep changes in topographic elevation such as those that may occur along the realignment water courses. This is particularly true of the Bagsverd Creek realignment west of the TMF, which is located between two local topographic highs. Elsewhere predicted declines are less and localized to the realignment channels and the Lower Bagsverd Lake where lake levels are lowered by more than 1 m to accommodate the realignments in the Mollie River system.

4.1.2 Operations Phase

Predicted changes to groundwater levels at the end of the operation phase (relative to the construction phase) do not extend beyond the LSA as shown in Figure 4-2. The effects of operations were evaluated against the effects predicted for the construction phase and not against the existing conditions. Many of these realignments will remain in place following closure of the mine and as such, represent the new proposed existing conditions at the Site.

Groundwater level declines, as shown by the 1 m drawdown contour, extend up to 1.4 km to the southwest from the open pit. Downward seepage from nearby lakes and the MRSPs truncates the lateral extent of the groundwater level drawdown elsewhere around the open pit. The 1 m drawdown contour extends beyond the nearby realignment dams indicating that these structures are under drained and only minimal seepage through these dams is expected at the end of operations.

4.1.3 Closure Post-Closure Phase

At closure, pumping activities will be terminated and the water level in the open pit will begin to rise in response to direct precipitation inputs and groundwater inflow. Groundwater levels will rise over the area affected by the Project. During post-closure, groundwater levels will continue to rise and over time will approximate pre-mining conditions except in the immediate vicinity of water realignment structures where these are to remain in place.

4.2 Other Predicted Effects

While not considered as environmental assessment indicators for hydrogeology, changes to the net groundwater inflow to adjacent lakes and estimates of the inflows to the open pit during operations have also been predicted. The predicted net groundwater inflows to adjacent lakes have been considered in the assessment of Project effects on Hydrology, as are detailed in the Hydrology TSD (Golder 2013). Predicted inflows to the open pit



during operations have been considered in both the Hydrology and Water Quality TSDs for this project. These predictions are discussed below.

4.2.1 Changes to Net Inflows to Lakes

As the open pit is deepened over the life of mine, groundwater that previously discharged to nearby lakes is progressively redirected to the open pit, resulting in decreased inflow to these lakes. In addition, leakage from the bottom of the lakes also contributes to pit inflows, thus decreasing the net groundwater inflow to the lakes. Table 4-1 summarizes the net groundwater inflows to affected lakes through the construction and operations phases of the Project.

Table 4-1: Net Groundwater Inflow to Lakes over Life of Mine

Phase (Years)	Clam Lake Net Inflow ^(a) (m ³ /d)	Chester Lake Net Inflow (m ³ /d)	Three Duck Lakes Net Inflow (m ³ /d)	Weeduck Lake Net Inflow (m ³ /d)	Bagsverd Lake Net Inflow (m ³ /d)
Existing	400	1,960	1,230	91	640
Construction	210	1,897	1,161	91	604
Operations (0 -1)	197	1,893	1,156	91	600
Operations (2 – 4)	110	1,890	1,134	90	562
Operations (5 – 8)	62	1,885	1,119	90	546
Operations (9 – 12)	32	1,882	1,108	89	538
Operations (13 – 16)	24	1,881	1,105	89	535
Operations (17 – 20)	15	1,880	1,102	89	533

Notes:

^(a) Includes both Clam Lake and Little Clam Lake
m³/d – cubic metres per day

As discussed in the Hydrology TSD, the reductions in groundwater inflows to each of the lakes are compared to the average daily total outflow from each lake. Water budget analysis indicates the average daily total lake outflows range from approximately 35,000 m³/d at Clam and Little Clam Lakes, to 50,000 m³/d at Three Duck Lakes (Lower). Thus the predicted groundwater inflows to the open pit, as derived from each of the surrounding catchments, result in less than a one percent change in the overall water budget for each of the affected lakes on average and a negligible change in lake level as a result of groundwater pumping from the open pit.

4.2.2 Pit Inflows

Predicted groundwater inflows decline with the progressive deepening of the open pit through the life of the mine (Table 4-2). The predictions below include an approximation of construction phase inflows during dewatering of the Côté Lake and the excavation of overburden materials within the pit footprint. The numerical simulations are staged to represent a 20 year mine life; however, the results shown are comparable to a 15 year life of mine with the same ultimate pit extents.



Table 4-2: Predicted Pit Inflows Over Life of Mine

Phase (Years)	Approximate Greatest Pit Depth (m)	Pit Inflow (m ³ /d)
Construction	-	200
Operations (0 -1)	30	1,100
Operations (2 – 4)	80	2,000
Operations (5 – 8)	140	2,140
Operations (9 – 12)	220	2,180
Operations (13 – 16)	350	2,200
Operations (17 – 20)	550	2,210

Notes:
m - metre
m³/d – cubic metres per day

Pit inflows increase rapidly from 1,100 m³/d during the first year of mining and then stabilise between 2,000 m³/d to 2,210 m³/d through Year Four to the end of mine life. The relatively small change in groundwater inflows as the open pit is progressively deepened after Year Four indicates that the primary pathway for groundwater inflow continues to occur through the shallow flow system, being the overburden and upper 50 m of the rock mass, with limited groundwater inflow from the deep flow system.

5.0 MITIGATION AND MONITORING

5.1 Mitigation

The prediction of hydrogeology effects was completed based on several inherent mitigation measures that have been included in the design of the Project. These include:

- construction of perimeter dams in low lying areas along Clam Lake and the outflow of Chester Lake to minimise inflows to the open pit;
- surface water realignments to minimize risks associated with surface water features in close proximity to an open pit;
- construction of engineered facilities to store mine rock (MRA), low-grade ore (low-grade stockpile) and tailings (TMF);
- construction of engineered water management systems to collect runoff and seepage from the MRA, low-grade stockpile, TMF, and polishing pond;
- contact water that is comprised of inflows and runoff from the pit walls, runoff and seepage from the MRA and low grade stockpiles, and runoff from the plant site will be collected and pumped to the mine water pond;
- contact and process water contained within the collection ponds adjacent to the TMF and polishing ponds will be pumped back into the reclaim pond;
- installation of a liner at the mine water pond; and



- construction of erosion and sediment control measures to promote settling of sediments and mitigate the migration of suspended solids into nearby surface water features.

5.2 Monitoring

Considering the potential effects of the Project on the hydrogeology EAI (groundwater levels), a groundwater monitoring program has been developed as outlined below. This program is to be incorporated into an overall water monitoring program for the Project and will include the installation of monitoring wells, the collection of groundwater level measurements and groundwater quality samples, as well as surface water monitoring for the collection of level and flow measurements and surface water quality samples along with continued climate monitoring.

The following monitoring program specifically addresses groundwater level monitoring requirements for the Project and includes:

- drilling and installation of up to five deep monitoring well nests with screened intervals at up to 3 depths, at select locations around the perimeter of the open pit to assess the rate and extent of groundwater level changes during pit dewatering and post-closure flooding. These wells will be completed to depths of up to 100 m below ground, and instrumented with data loggers to obtain continuous records of groundwater levels;
- manual depth to groundwater measurements at select existing monitoring well locations around the perimeter of the open pit;
- manual depth to groundwater measurements at approximately 15 existing well locations and up to 10 new monitoring well locations around the perimeter of the MRA and TMF. Existing wells would be used to the extent possible but additional wells will also need to be installed following construction; and
- installation of up to five additional monitoring well nests adjacent to select hydrological monitoring stations to allow for monitoring of interactions between groundwater and surface water.

This program is to be integrated with the monitoring programs developed for the Water Quality, Hydrology, Aquatic Biology and Terrestrial Ecology disciplines and documented within their respective TSDs which have been submitted under separate cover in support of the EIS/EA Report.

Annually the results of this groundwater level monitoring program will be integrated with the results obtained from the other disciplines noted above and assessed in consideration of ongoing operational activities.

6.0 CONCLUSIONS

Based upon the results of the studies and the effects assessment completed, the following conclusions are presented for the hydrogeological environment:

- 1) The Côté Gold project will affect the hydrogeological environment principally through the: construction of dams and realignments surface water channels, excavation of an open pit mine, and the development of the MRA and TMF.



- 2) Groundwater levels have been identified as an effects assessment indicator. Changes in groundwater levels, as may result from Project activities, could affect: the quantity of groundwater discharge to local lakes and streams, dry season flows and sources of drinking water. Additionally, such changes in groundwater levels could also affect aquatic habitat in the receiving streams.
- 3) The area has been thoroughly investigated through the drilling of 150 boreholes, the installation of 62 monitoring wells and the excavation of 260 test pits. Estimates of the hydraulic conductivity of overburden materials and bedrock was obtained through a total of over 390 tests comprising packer tests, slug tests and grain size analyses of soil samples.
- 4) The area is characterized by a subdued topography with extensive areas of bedrock outcrops or bedrock covered with a thin veneer of till, as established through test pit excavations. There are some forestry, recreational and mine exploration activities at present and historically, limited mine development has been conducted, primarily in the 1930s and again in the 1980s. Only one water well, the IAMGOLD camp water supply, has been recorded in the area.
- 5) The overburden is restricted to generally narrow discontinuous valleys or troughs between bedrock exposures. These troughs comprise swampy areas or wetlands and are mantled with peat/organic deposits to a thickness of about 1 m and are frequently occupied by standing water or streams. Below the peat cover, the overburden materials are typically comprised of fine grained material consisting of silt or sandy silt that in some locations is underlain by coarse granular material to a maximum depth of 22 m observed in the vicinity of the open pit.
- 6) Hydraulic conductivity estimates for overburden materials ranges from about $8E-08$ m/s to $2E-03$ m/s with a bulk geometric mean of about $9E-6$ m/s. For fractured bedrock, the hydraulic conductivity data developed ranged to a high of $3E-4$ m/s, with a geometric mean of $1E-7$ m/s. Where weakly fractured or unfractured, much lower hydraulic conductivity values of about $1E-9$ m/s or less were reported or inferred. The hydraulic conductivity of the bedrock showed a weak trend to declining values over the 600 m plus vertical depth drilled in the footprint of the open pit.
- 7) Groundwater levels in the low lying area are typically close to ground surface or even above ground levels, and show a limited range of seasonal fluctuation. Seasonally high groundwater levels are observed during the spring freshet with a decline through the summer months. A greater depth to groundwater is observed beneath bedrock highs.
- 8) The direction of groundwater flow is controlled by local bedrock topography with recharge at topographic highs and discharge at the intervening low lying areas. Groundwater flow paths are of limited lateral extent. A continuous overburden aquifer has not been identified at this site.
- 9) The shallow groundwater flow system at the site is dominated by flow in granular materials that occupy the bedrock troughs and to a lesser extent by flow in the less permeable overburden materials and the upper fractured bedrock extending to a depth of about 50 m. This flow system is recharged by precipitation at higher elevation lands with discharge to the intervening low lying wet lands. These flow pathways are of limited lateral extent, limited by the morphology of the underlying bedrock surface.
- 10) The underlying deep groundwater flow system, extending below a depth of 50 m below top of rock, is characterized by flow in discrete fractures with the occurrence of such fractures declining with depth.



Regionally, the direction of flow in the deep bedrock is generally northeastwards, consistent with the decline in elevation of the major surface water features.

- 11) Predictions of the effects of construction and operations phase activities have been developed through the use of a 3D groundwater flow model. This model was constructed based on the conceptual hydrogeological model developed from investigations conducted at the site and covers an area that extends beyond local watersheds.
- 12) Construction phase effects are limited to the immediate vicinity of the dams constructed in the vicinity of the pit perimeter and the realignment channels where these are excavated through higher ground.
- 13) During operations, groundwater levels will continue to decline as the pit is deepened to its full extent over the mine life. The area affected by groundwater level declines extends a maximum of 1.4 km to the southwest, as defined by the 1 m drawdown contour. Elsewhere the extent of groundwater level decline is limited by the presence of lakes and seepage water from the collection ponds at the adjacent MRA.
- 14) Inflows to the open pit approximate 2,000 m³/day to 2,200 m³/day beginning in about Year Four and extending to the end of mining when groundwater pumping will cease. The shallow flow system comprises the primary pathway for groundwater inflow to the open pit with only a minor contribution from the deep bedrock.
- 15) As the pit is deepened, groundwater that previously discharged to nearby lakes is progressively redirected to the open pit along with direct seepage losses from the lakes. The decrease in the net groundwater inflow to the lakes was assessed and shown to be less than 1% of the overall water budget for affected lakes with a negligible change to lake levels attributed to groundwater pumping from the open pit.
- 16) At closure, pumping activities will be terminated and groundwater levels will recover over time to approximate pre-mining conditions except where water realignment structures are to remain in place.

7.0 REFERENCES

- AMEC Earth and Environmental Limited. 2010. Hydrogeological Assessment, Chester Project, Gogama, Ontario. AMEC Project No TY960325. May 13, 2010.
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- Golder Associates Ltd. 2013. Côte Gold Project, Draft Environmental Assessment Report, Technical Support Document: Hydrology. November 2013.
- Roscoe Postle Associates Inc. 2011. Trelawney Mining and Exploration Inc., Technical Report on the Côte Lake Deposit, Chester Property, Ontario, Canada. NI 43-101 Report. April 21, 2011.
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Report Signature Page

GOLDER ASSOCIATES LTD.

Karen Besemann, P.Geol.
Associate/Hydrogeologist

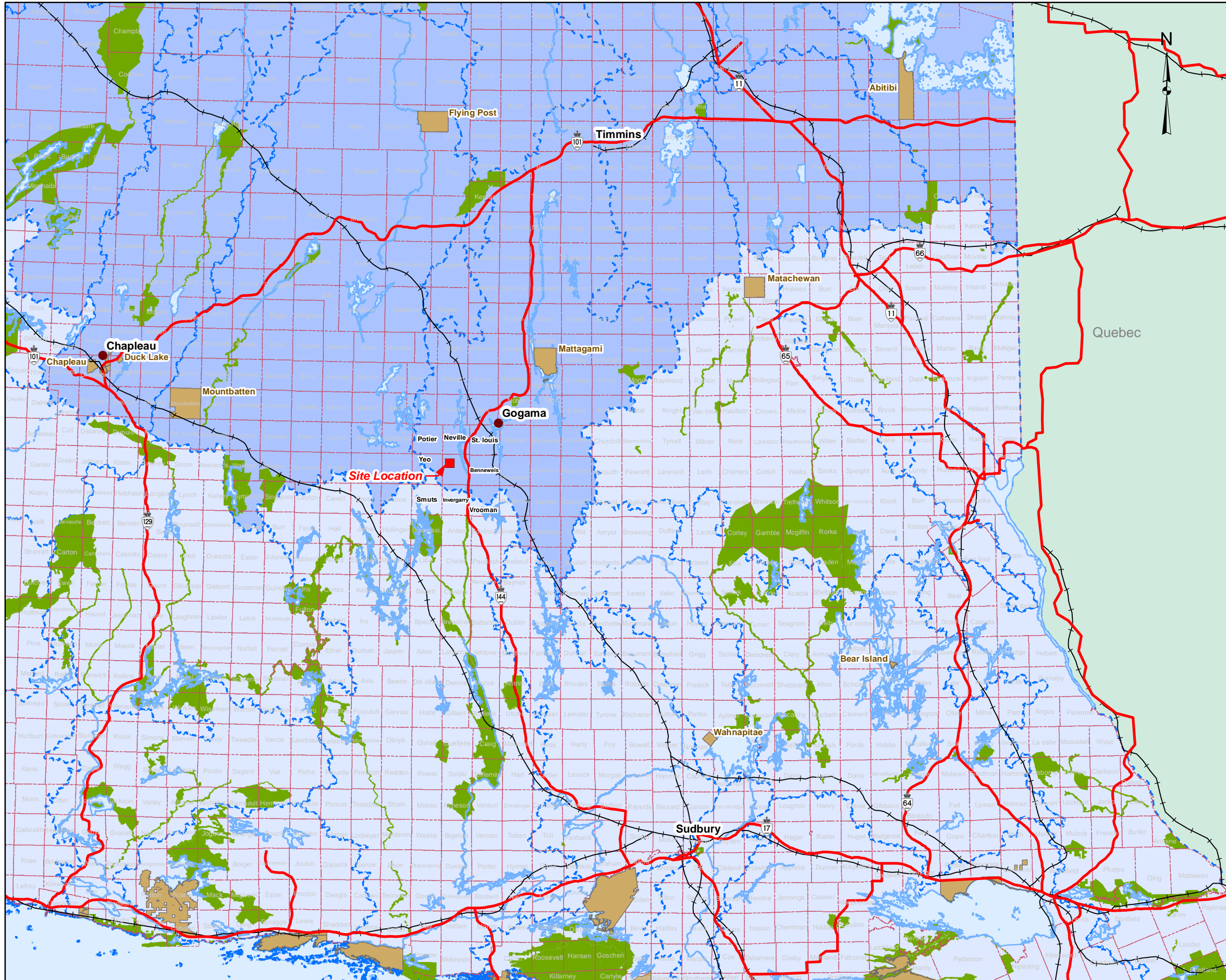
John M. Petrie, M.Sc., P.Geol.
Principal

MO/HJ/KAB/JMP/lis

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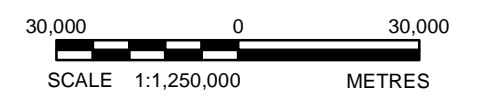


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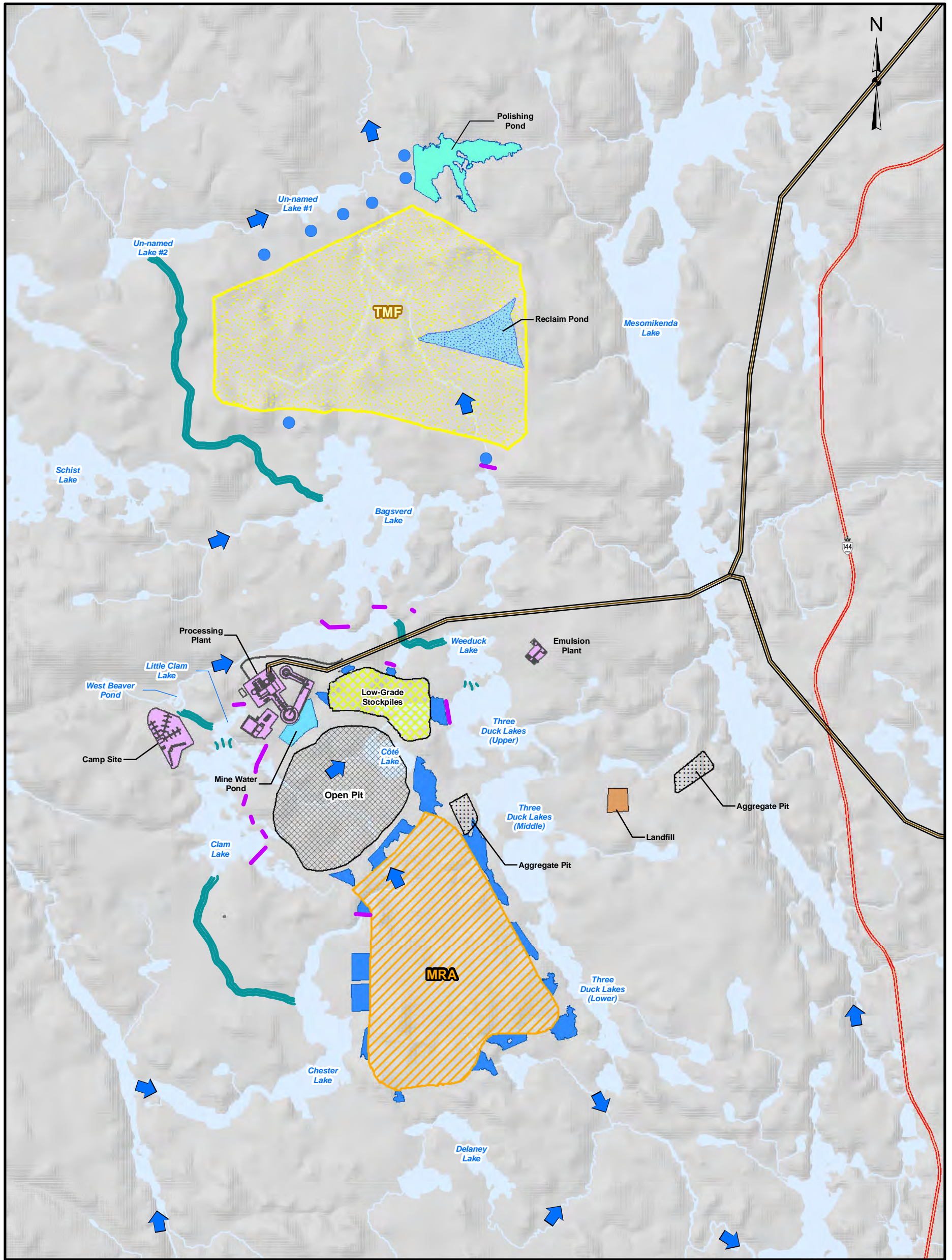
- Populated Places
- Major Roads
- Railway
- First Nations Communities
- Townships
- Provincial Park
- Primary Watersheds**
- Hudson Bay
- Great Lakes

REFERENCE

Base Data - MNR NRVIS, CANMAP v2008.4
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PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE		Project Location	
<p>Golder Associates Sudbury, Ontario</p>	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
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	GIS	RRD	Oct. 2013
	CHECK	MO	Oct. 2013
	REVIEW	JMP	Nov. 2013
			FIGURE: 1-1

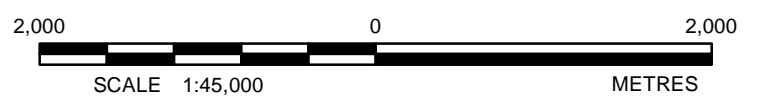


LEGEND

- Highway 144
- Realignment Dams
- Transmission Line
- Watercourse Realignment
- Low-Grade Stockpiles
- Mine Rock Area (MRA)
- Tailings Management Facility (TMF)
- Open Pit
- Polishing Pond
- Reclaim Pond
- Aggregate Pit
- Facilities
- Mine Water Pond
- Landfill
- Collection Ponds
- Waterbodies
- Creek / River
- Surface Water Flow Direction

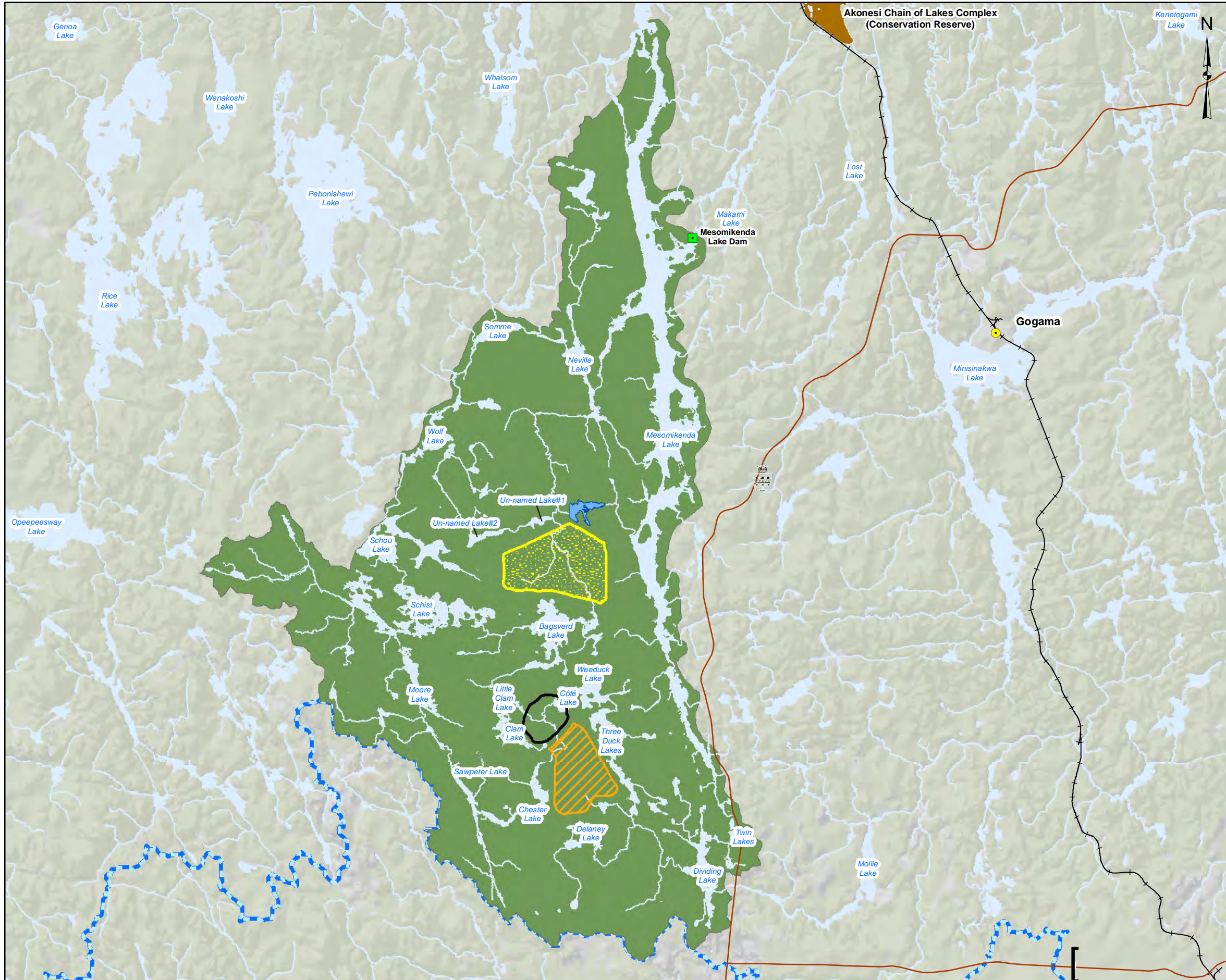
REFERENCE

Open Pit Shell provided by IAMGOLD, May 2013
 Base Data - MNR NRVIS, CANMAP v2008.4
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PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE		Site Plan	
PROJECT No. 13-1192-0021		SCALE AS SHOWN	REV. 0
DESIGN	RRD	Feb. 2013	FIGURE: 1-2
GIS	AL	Oct. 2013	
CHECK	MO	Oct. 2013	
REVIEW	JMP	Nov. 2013	

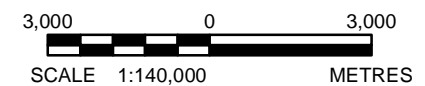




- LEGEND**
- Dams
 - Major Roads
 - Railway
 - Mine Rock Area (MRA)
 - Polishing Pond
 - Tailings Management Facility (TMF)
 - Open Pit
 - Hydrogeology Local Study Area (LSA)
 - Conservation Reserve (Regulated)
 - Rivers
 - Waterbody / Large Watercourse
 - Arctic/Atlantic Watershed Divide

REFERENCE

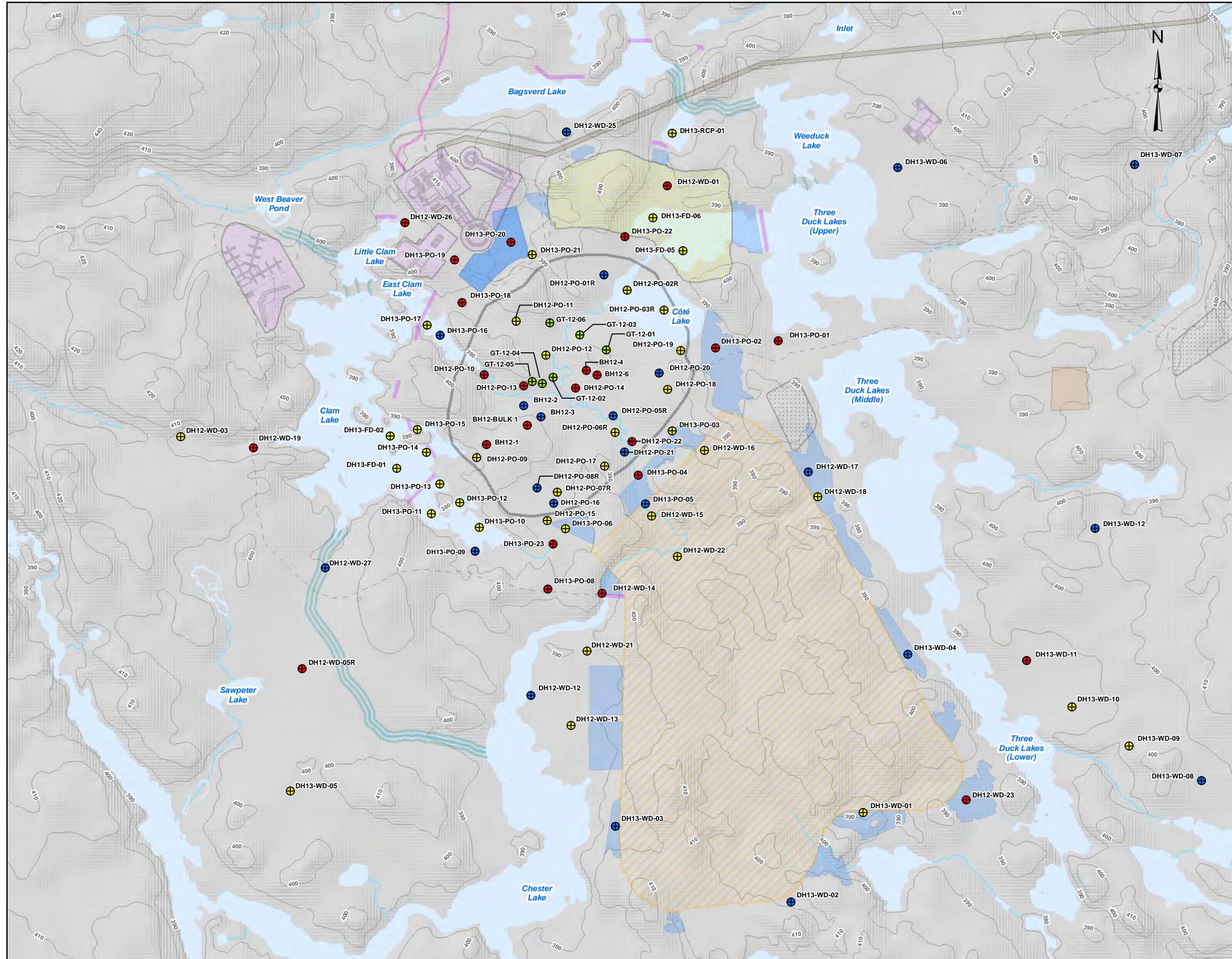
IAMGOLD Open Pit, May 2013.
 Base Data - MNR NRVIS, CANMAP v2008.4
 Produced by Golder Associates Ltd under licence from
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 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17



PROJECT				
IAMGOLD CÔTÉ GOLD PROJECT				
TITLE				
Hydrogeology Local Study Area				
 Golder Associates Sudbury, Ontario	PROJECT No. 13-1192-0021		SCALE AS SHOWN	REV. 0
	DESIGN	RRD	Dec. 2012	FIGURE: 2-1
	GIS	RRD	July 2013	
	CHECK	MO	July 2013	
	REVIEW	JMP	Nov. 2013	

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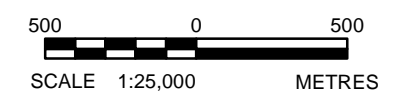


LEGEND

- ⊕ Geotechnical Borehole
- Single Monitoring Well
- ⊕ Nested Monitoring Well
- ⊕ Geomechanical Drillhole
- Tailings and Reclaim Pipeline
- Transmission Line
- Watercourse Realignment
- Realignment Dams
- Facilities
- Landfill
- Ore Stockpile
- Aggregate Pit
- Mine Rock Area (MRA)
- Collection Ponds
- Open Pit
- - - Site Access Roads
- Waterbodies
- Creek / River
- Topographic Index Contours (10m interval)

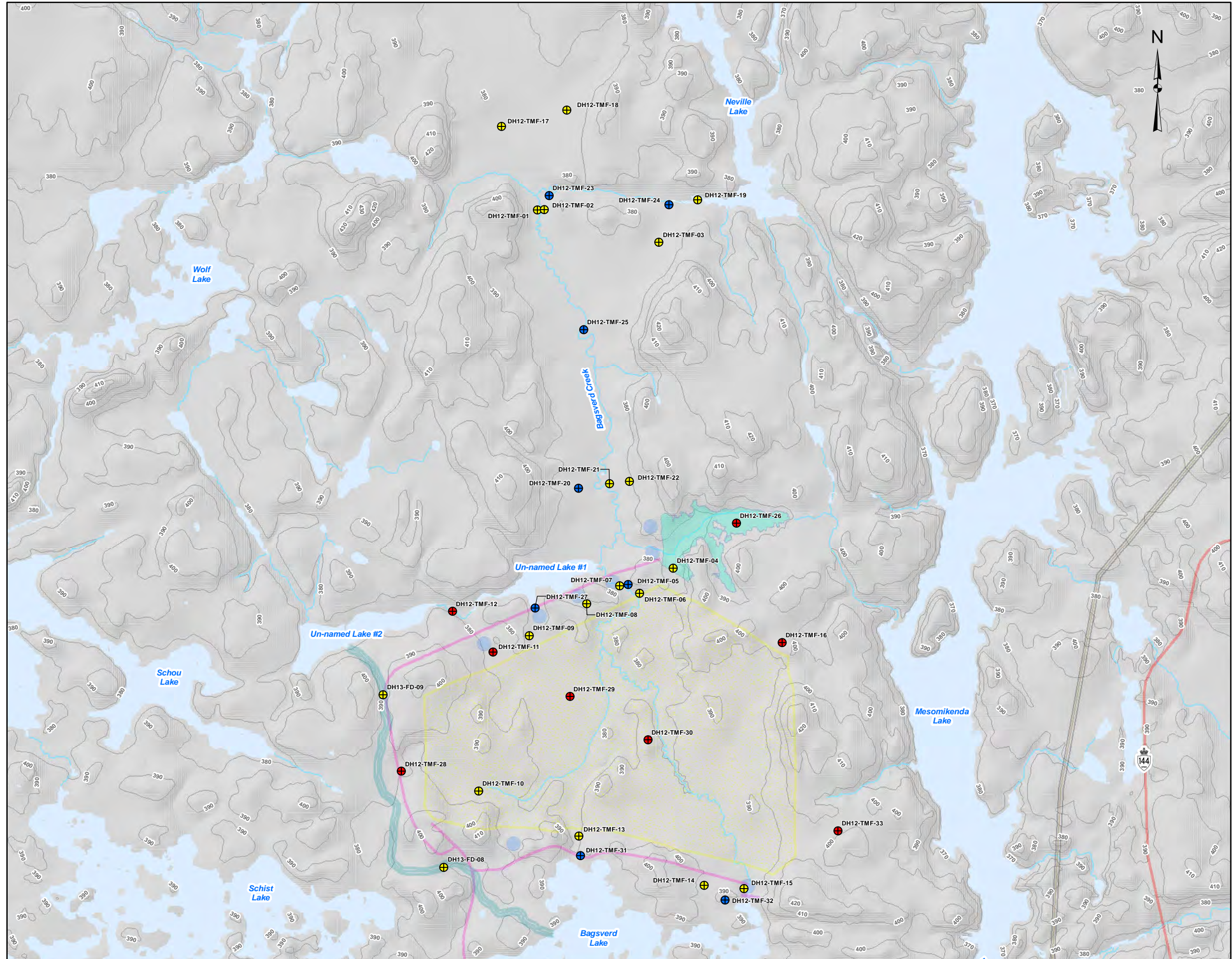
REFERENCE

Open Pit Shell provided by IAMGOLD, May 2013
 *Figure1 Based on info provided by AMEC (May 2013)
 Base Data - MNR NRVIS, CANMAP v2008.4
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PROJECT	IAMGOLD CÔTÉ GOLD PROJECT		
TITLE	Borehole and Monitoring Well Locations in Open Pit and Mine Rock Area		
	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
	DESIGN AL July 2013	FIGURE: 2-2	
	GIS AL Oct. 2013		
	CHECK MO Oct. 2013		
REVIEW JMP Nov. 2013			

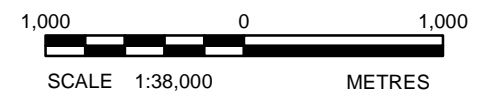
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- LEGEND**
- Geotechnical Borehole
 - Single Monitoring Well
 - Nested Monitoring Well
 - Transmission Line
 - Watercourse Realignment
 - Tailings and Reclaim Pipeline
 - Realignment Dams
 - Major Roads
 - Polishing Pond
 - Collection Ponds
 - Tailings Management Facility (TMF)
 - Waterbodies
 - Creek / River
 - Topographic Index Contours (10m interval)

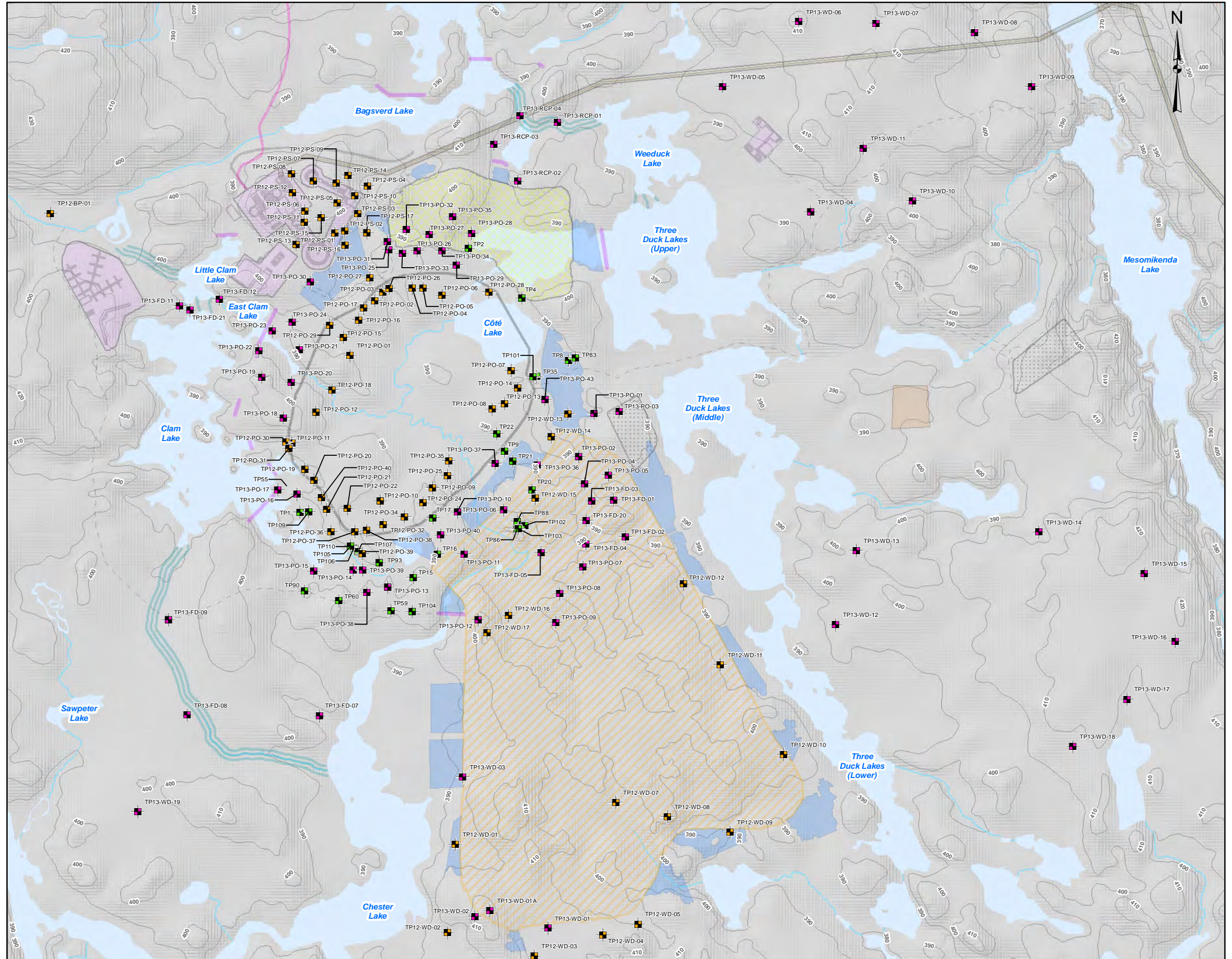
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Open Pit Shell provided by IAMGOLD, May 2013
 *Figure1 Based on info provided by AMEC (May 2013)
 Base Data - MNR NRVIS, CANMAP v2008.4
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 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17



PROJECT		CÔTÉ GOLD PROJECT	
TITLE			
Borehole and Monitoring Well Locations in Tailings Management Facility Area			
Golder Associates Sudbury, Ontario	PROJECT No.	13-1192-0021	SCALE AS SHOWN
	DESIGN	AL July 2013	REV. 0
	GIS	RRD July 2013	FIGURE: 2-3
	CHECK	MO July 2013	
REVIEW	JMP Nov. 2013		

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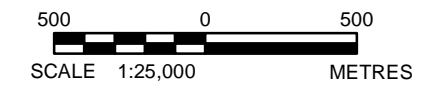


LEGEND

- Test Pit (Completed by Golder in 2012)
- Test Pit (Completed by Knight Piésold in 2012)
- Test Pit (Completed by Knight Piésold in 2013)
- Transmission Line
- Realignment Dams
- Watercourse Realignment
- Tailings and Reclaim Pipeline
- Site Access Roads
- Facilities
- Landfill
- Open Pit
- Aggregate Pit
- Ore Stockpile
- Mine Rock Area (MRA)
- Collection Ponds
- Waterbodies
- Creek / River
- Topographic Index Contours (10m interval)

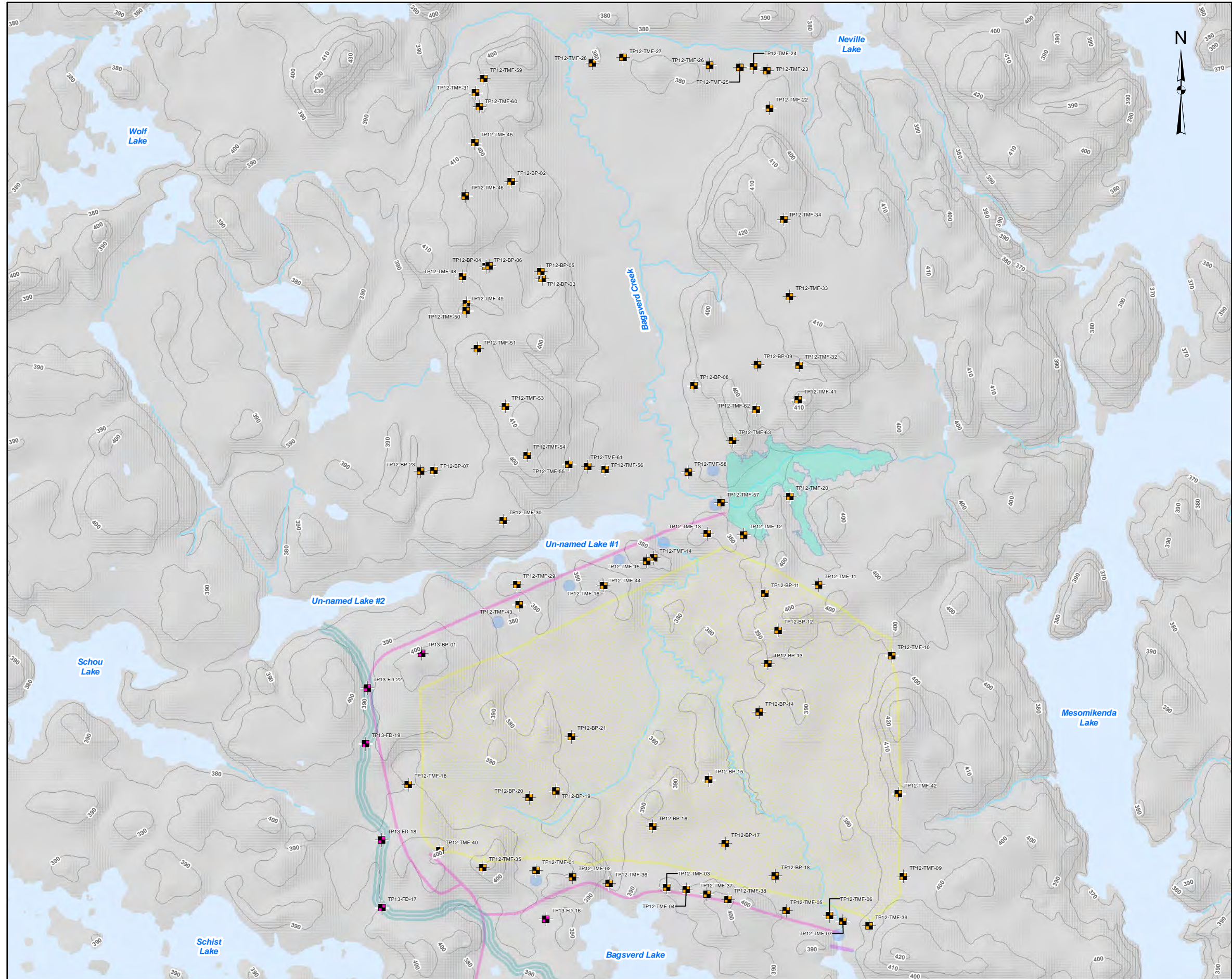
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Open Pit Shell provided by IAMGOLD, May 2013
 *Figure1 Based on info provided by AMEC (May 2013)
 Base Data - MNR NRVIS, CANMAP v2008.4
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PROJECT	CÔTÉ GOLD PROJECT		
TITLE	Test Pit Locations in Open Pit and Mine Rock Area		
 Golder Associates Sudbury, Ontario	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
	DESIGN AL July 2013	FIGURE: 2-4	
	GIS RRD July 2013		
	CHECK MO July 2013		
REVIEW JMP Nov. 2013			

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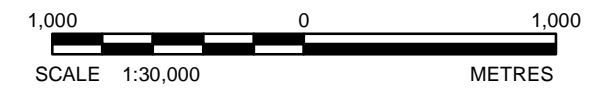


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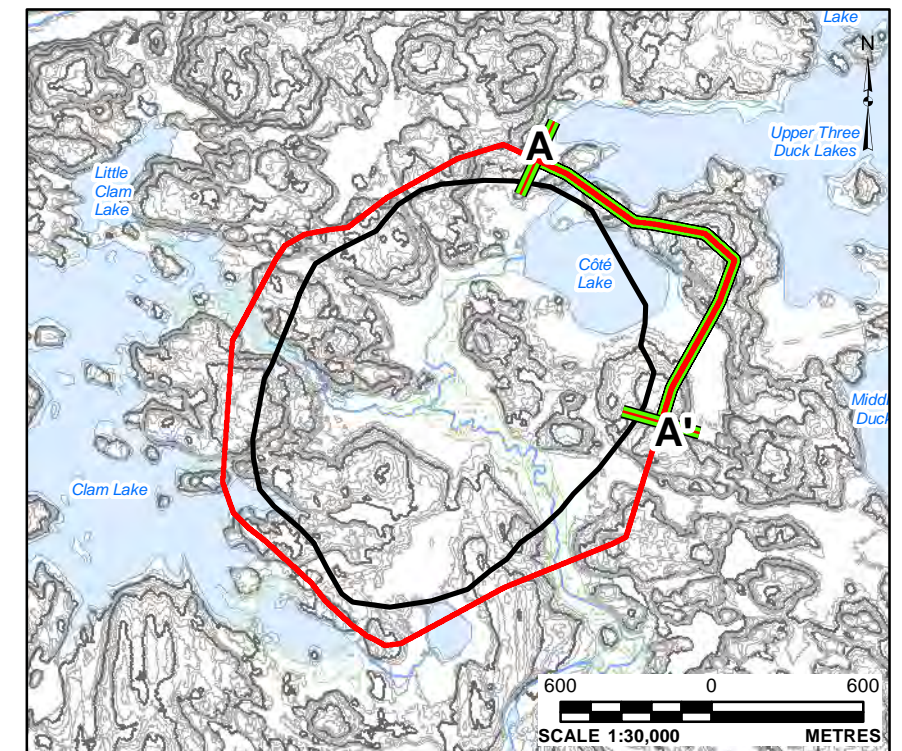
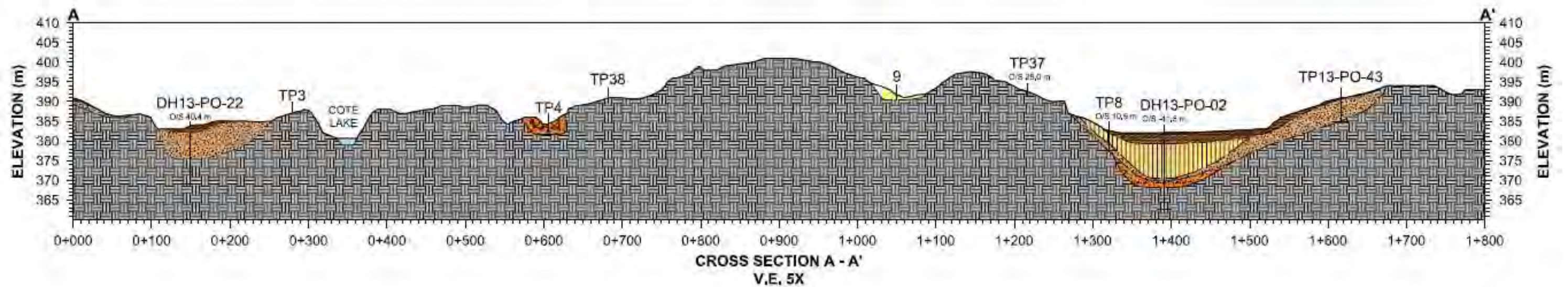
- Test Pit (Completed by Golder in 2012)
- Test Pit (Completed by Knight Piésold in 2012)
- Test Pit (Completed by Knight Piésold in 2013)
- Realignment Dams
- Watercourse Realignment
- Tailings and Reclaim Pipeline
- Polishing Pond
- Tailings Management Facility (TMF)
- Collection Ponds
- Waterbodies
- Creek / River
- Topographic Index Contours (10m interval)

REFERENCE

*Figure1 Based on info provided by AMEC (May 2013)
 Base Data - MNR NRVIS, CANMAP v2008.4
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PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE			
Test Pit Locations in Tailings Management Facility Area			
 Golder Associates Sudbury, Ontario	PROJECT No.	13-1192-0021	SCALE AS SHOWN
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	CHECK	MO Oct. 2013	
REVIEW	JMP Nov. 2013		

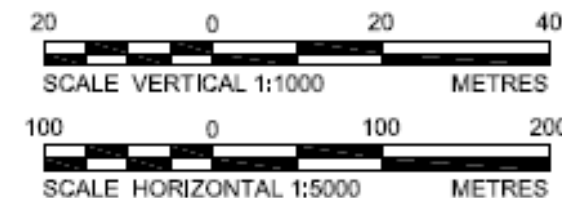


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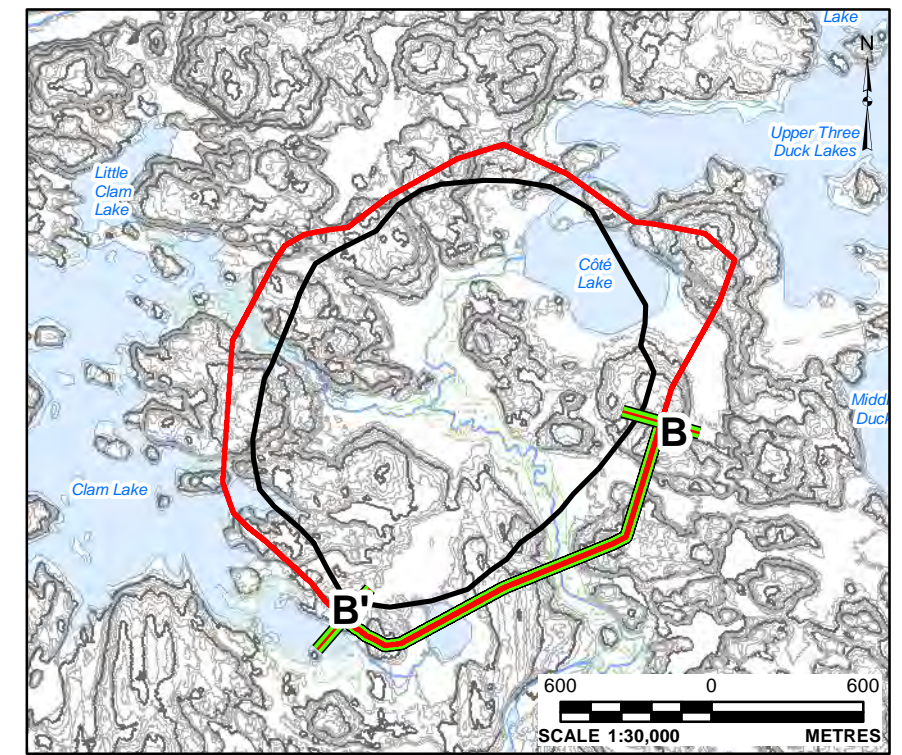
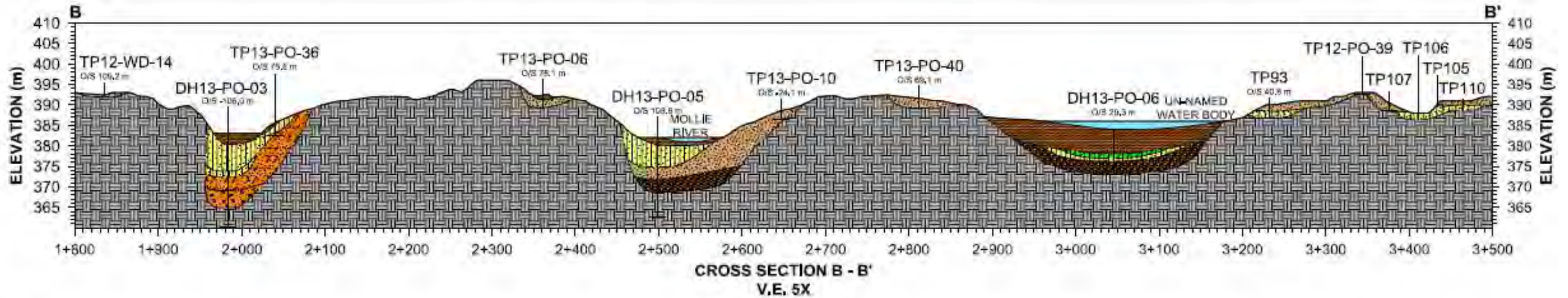
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	CLAY/SILT		GRAVEL		TEST PIT
	SILT		GRAVEL/COBBLES		DRILL HOLE
	SILT/SAND		SAND TILL		HAND DUG TEST PIT
	SAND/SILT		BEDROCK		
	SAND		WATER		

REFERENCES:

- GROUND SURFACE CAPTURED VIA LIDAR - AUGUST 31, 2011 (GEODIGITAL FORMERLY TERRAPOINT)
BASE DATA - MNR NRVIS, CANMAP V2008 4
PRODUCED BY GOLDER ASSOCIATES LTD UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEEN PRINTER 2012.
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PROJECT		CÔTÉ GOLD PROJECT	
TITLE		Geologic Cross-Section of Open Pit Perimeter Section A - A'	
 Sudbury, Ontario	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
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	GIS AL Nov. 2013		
	CHECK MO Nov. 2013		
REVIEW JMP Nov. 2013			

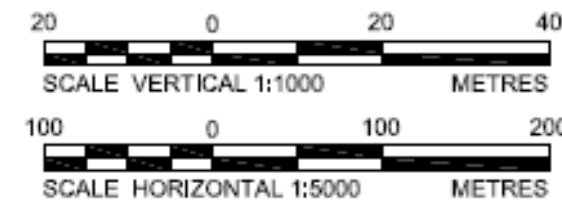


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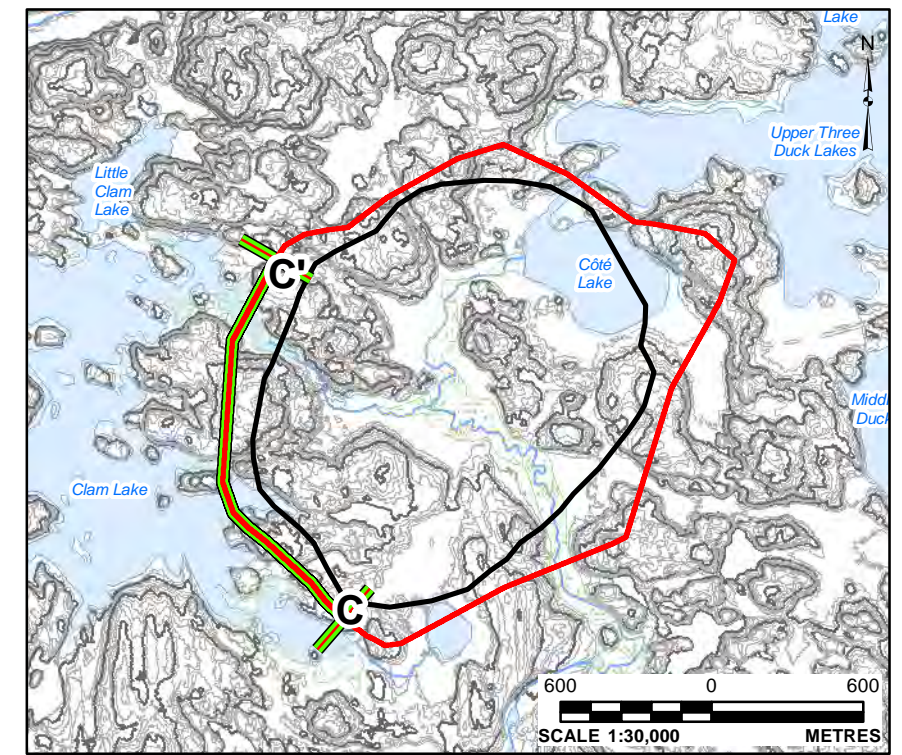
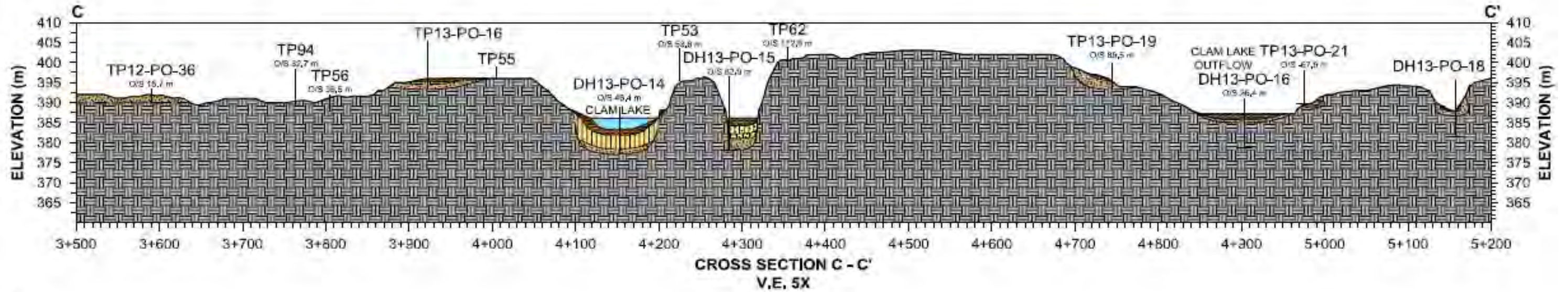
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	CLAY/SILT		GRAVEL		TEST PIT
	SILT		GRAVEL/COBBLES		DRILL HOLE
	SILT/SAND		SAND TILL		HAND DUG TEST PIT
	SAND/SILT		BEDROCK		
	SAND		WATER		

REFERENCES:

- GROUND SURFACE CAPTURED VIA LIDAR - AUGUST 31, 2011 (GEODIGITAL FORMERLY TERRAPOINT)
BASE DATA - MNR NRVIS, CANMAP V2008 4
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PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE			
Geologic Cross-Section of Open Pit Perimeter Section B - B'			
 Sudbury, Ontario	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
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REVIEW JMP Nov. 2013			

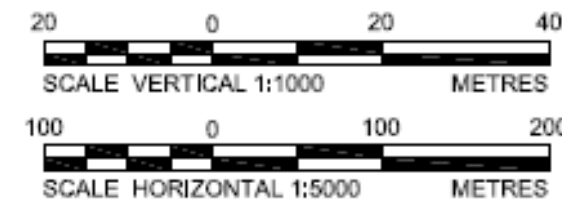


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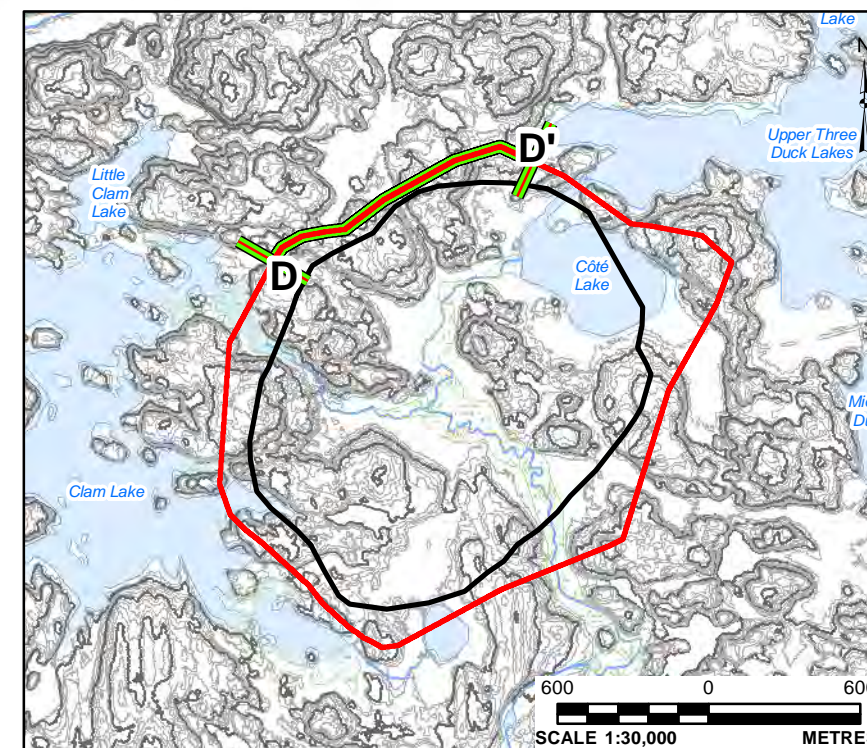
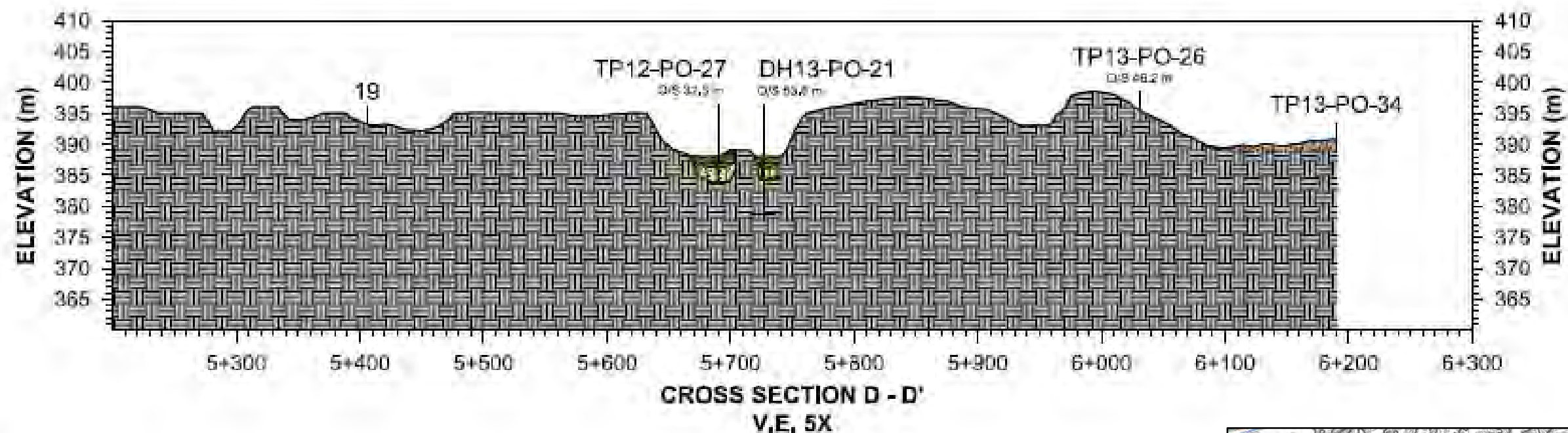
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	CLAY/SILT		GRAVEL		TP	TEST PIT
	SILT		GRAVEL/COBBLES		DH	DRILL HOLE
	SILT/SAND		SAND TILL		H	HAND DUG TEST PIT
	SAND/SILT		BEDROCK			
	SAND		WATER			

REFERENCES:

- GROUND SURFACE CAPTURED VIA LIDAR - AUGUST 31, 2011 (GEODIGITAL FORMERLY TERRAPOINT)
BASE DATA - MNR NRVIS, CANMAP V2008 4
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PROJECT	CÔTÉ GOLD PROJECT		
TITLE	Geologic Cross-Section of Open Pit Perimeter Section C - C'		
 Sudbury, Ontario	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
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	CHECK MO Nov. 2013		
REVIEW JMP Nov. 2013			

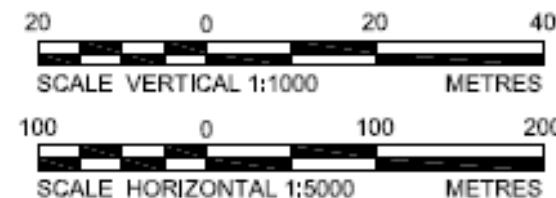


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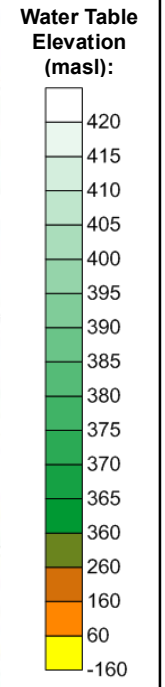
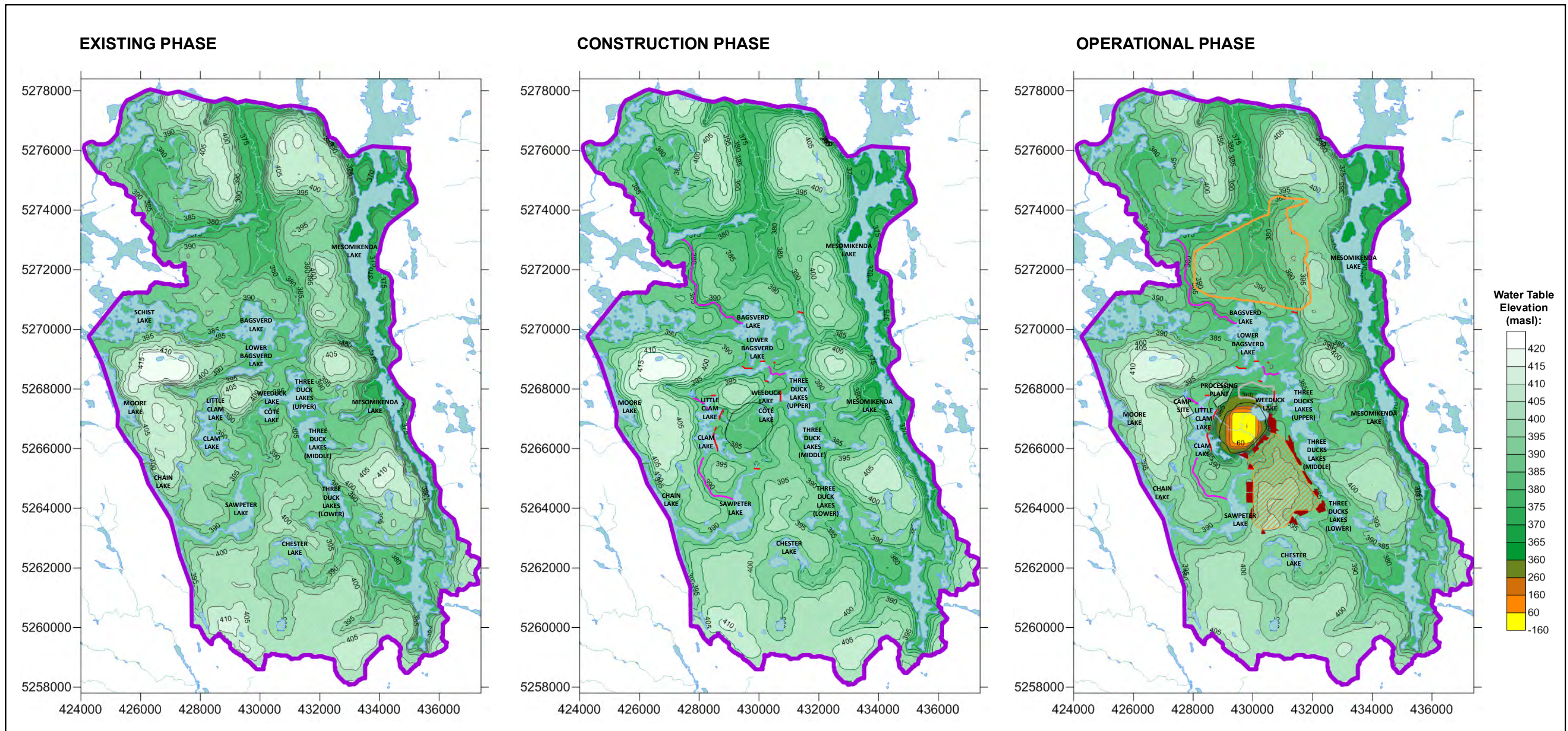
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	CLAY/SILT		GRAVEL		TEST PIT
	SILT		GRAVEL/COBBLES		DRILL HOLE
	SILT/SAND		SAND TILL		HAND DUG TEST PIT
	SAND/SILT		BEDROCK		
	SAND		WATER		

REFERENCES:

- GROUND SURFACE CAPTURED VIA LIDAR - AUGUST 31, 2011 (GEODIGITAL FORMERLY TERRAPOINT)
BASE DATA - MNR NRVIS, CANMAP V2008 4
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PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE			
Geologic Cross-Section of Open Pit Perimeter Section D - D'			
 Sudbury, Ontario	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
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	GIS AL Nov. 2013		
	CHECK MO Nov. 2013		
REVIEW JMP Nov. 2013			

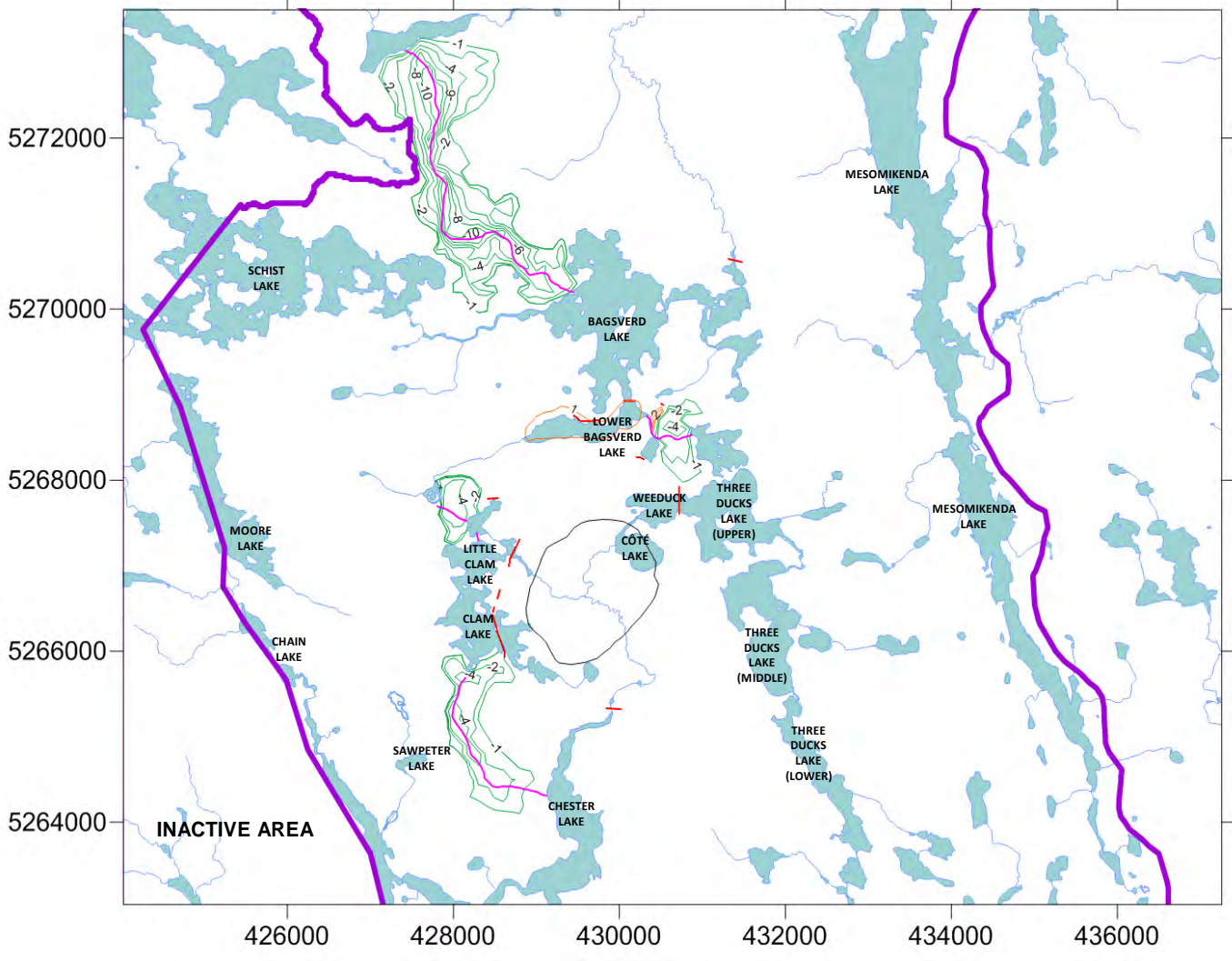


- LEGEND**
- Model Area
 - Surface Water
 - Open Pit
 - Tailings Management Facility (TMF)
 - Mine Rock Area (MRA)
 - Low-Grade Stockpiles
 - Collection Ponds
 - Watercourse Realignment
 - Realignment Dams

REFERENCE
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17

PROJECT	CÔTÉ GOLD PROJECT		
TITLE	Simulated Groundwater Table (masl)		
	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
	DESIGN AL Nov. 2013	FIGURE: 3-5	
	GIS AL Nov. 2013		
	CHECK MO Nov. 2013		
	REVIEW JMP Nov. 2013		





LEGEND

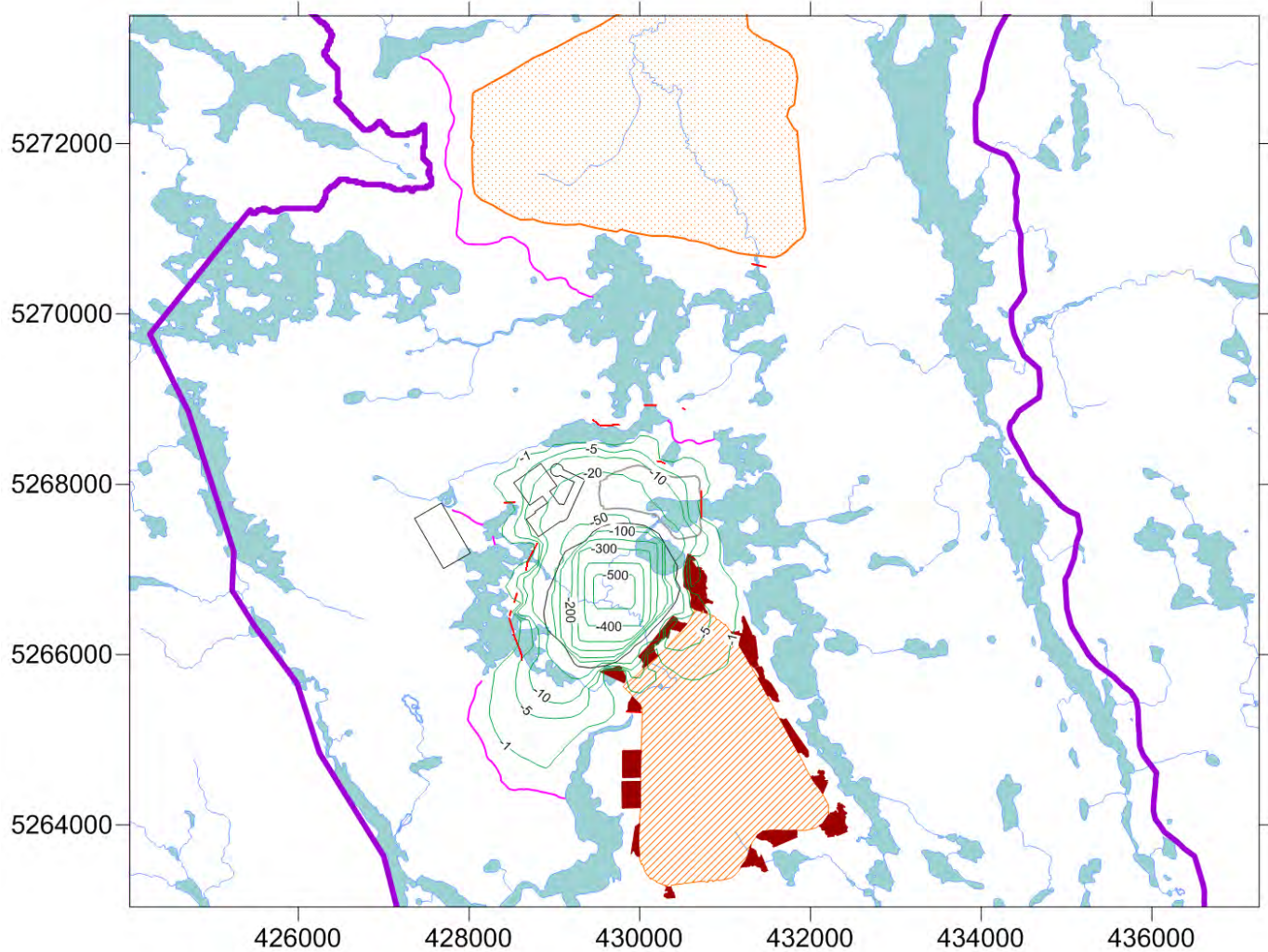
- Model Area
- Surface Water
- Open Pit
- Watercourse Realignment
- Realignment Dams
- Water Level Decrease
- Water Level Increase

REFERENCE

Base Data - MNR NRVIS, CANMAP v2008.4
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PROJECT		CÔTÉ GOLD PROJECT	
TITLE			
Simulated Groundwater Level Change From Existing to Construction Phase (m)			
PROJECT No. 13-1192-0021		SCALE AS SHOWN	REV. 0
DESIGN	AL	Nov. 2013	FIGURE: 4-1
GIS	AL	Nov. 2013	
CHECK	MO	Nov. 2013	
REVIEW	JMP	Nov. 2013	
Golder Associates Sudbury, Ontario			

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LEGEND

- Model Area
- Surface Water
- Open Pit
- Tailings Management Facility (TMF)
- Mine Rock Area (MRA)
- Low-Grade Stockpiles
- Collection Ponds
- Watercourse Realignment
- Realignment Dams
- Water Level Decrease

REFERENCE

Base Data - MNR NRVIS, CANMAP v2008.4
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PROJECT		CÔTÉ GOLD PROJECT	
TITLE			
Simulated Groundwater Level Change From Construction to Operations Phase, Ultimate Pit (m)			
PROJECT No. 13-1192-0021		SCALE AS SHOWN	REV. 0
DESIGN	AL	Nov. 2013	FIGURE: 4-2
GIS	AL	Nov. 2013	
CHECK	MO	Nov. 2013	
REVIEW	JMP	Nov. 2013	



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ATTACHMENT I

Hydrogeology Baseline Report, Côté Gold Project



December 4, 2013

IAMGOLD CORPORATION

Hydrogeology Baseline Report Côté Gold Project

Submitted to:
IAMGOLD Corporation
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Report Number: 13-1192-0021R (3000/3040)

Distribution:

1 e-copy - IAMGOLD Corporation
1 copy - Golder Associates Ltd.

REPORT





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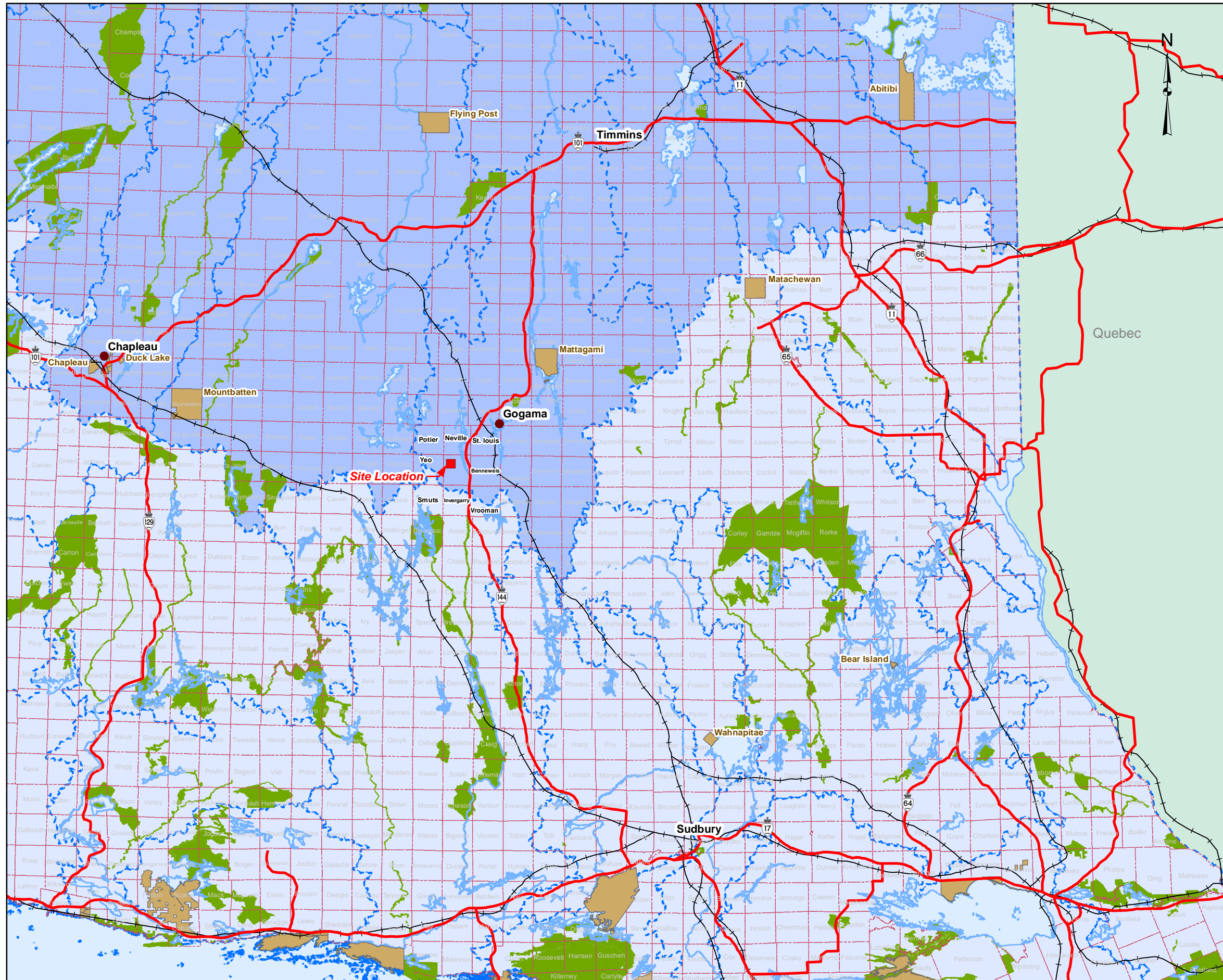


1.0 INTRODUCTION

IAMGOLD Corporation (IAMGOLD) is planning to develop the Côté Gold Project (the Project) located approximately 20 kilometers (km) southwest of Gogama, 130 km southwest of Timmins, and 200 km northwest of Sudbury (see Figure 1).

This document is one of a series of physical, biological and human environment baseline reports to describe the current environmental conditions at the Project site. These baseline reports are written with the intent to support the Environmental Assessment (EA) process.

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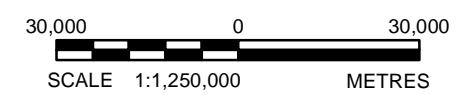


LEGEND

- Populated Places
- Major Roads
- Railway
- First Nations Communities
- Townships
- Provincial Park
- Primary Watersheds**
- Hudson Bay
- Great Lakes

REFERENCE

Base Data - MNR NRVIS, CANMAP v2008.4
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PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE			
Project Location			
<p>Golder Associates Sudbury, Ontario</p>	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
	DESIGN	RRD	Dec. 2012
	GIS	RRD	Oct. 2013
	CHECK	MO	Oct. 2013
	REVIEW	JMP	Oct. 2013
			FIGURE: 1



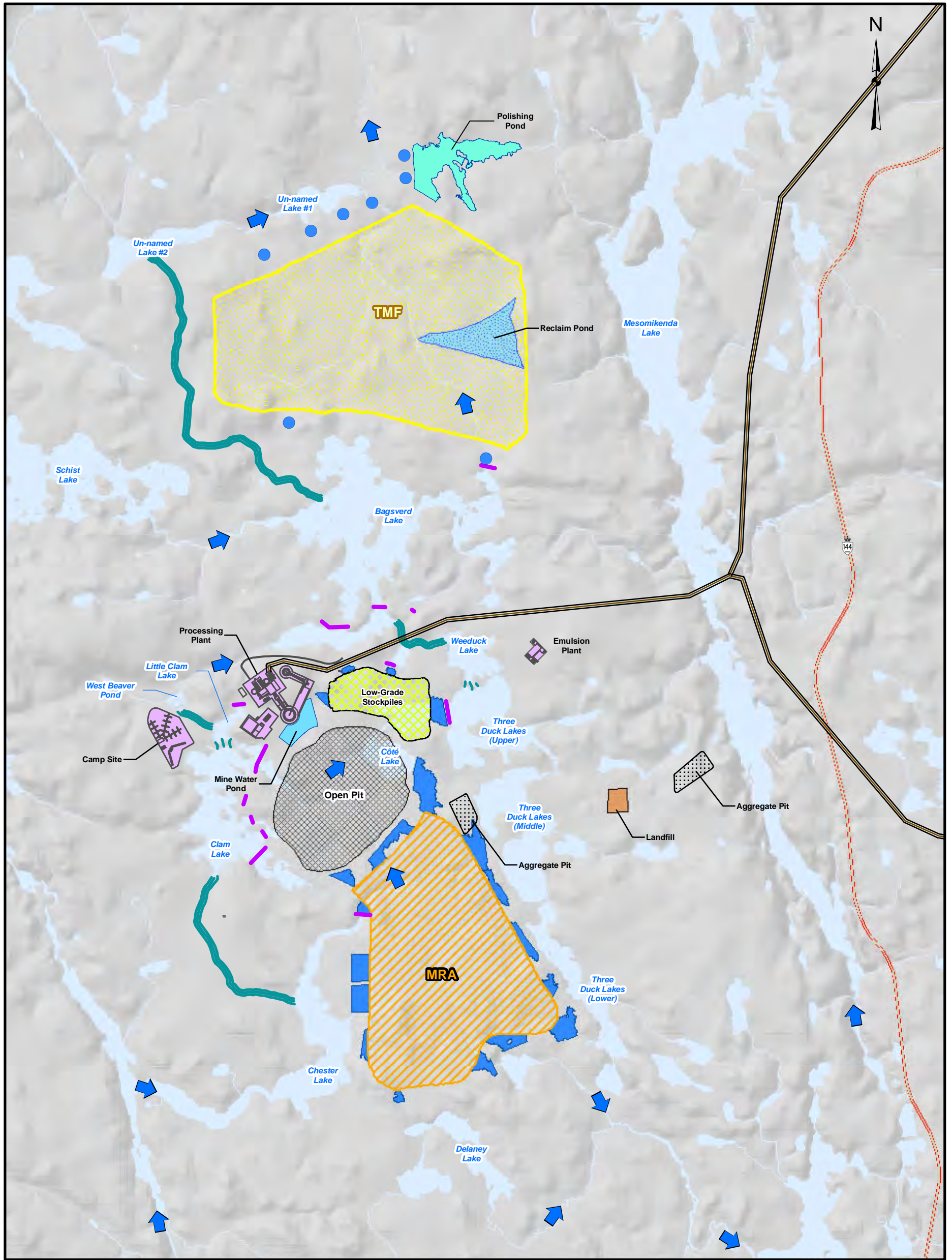
1.1 Overview of the Côté Gold Project

The proposed site layout places the required mine-related facilities in close proximity to the proposed open pit, to the extent practicable. The proposed site layout is presented in Figure 2 showing the approximate scale of the Côté Gold Project. The site plan will be refined further as a result of ongoing consultation activities, land purchase agreements and engineering studies.

As part of the proposed development of the Project, several water features will be fully or partially overprinted. These include Côté Lake, portions of Three Duck Lakes, Clam Lake, Mollie River/Chester Lake system and Bagsverd Creek. As a consequence, these water features will need to be realigned for safe development and operation of the proposed open pit.

The major proposed Project components are expected to include:

- proposed open pit;
- proposed Tailings Management Facility (TMF);
- various stockpiles (low-grade ore, overburden and proposed Mine Rock Area [MRA]) in close proximity to the proposed open pit;
- ore processing plant;
- maintenance garage, fuel and lube facility, warehouse and administration complex;
- construction and operations accommodations complex;
- explosives manufacturing and storage facility (emulsion plant);
- aggregate extraction with crushing and screening plants;
- on-site access roads and pipelines, power infrastructure and fuel storage facilities;
- potable and process water treatment facilities;
- domestic and industrial solid waste handling facilities (landfill);
- water management facilities and drainage works, including watercourse realignments; and
- transmission line and related infrastructure.

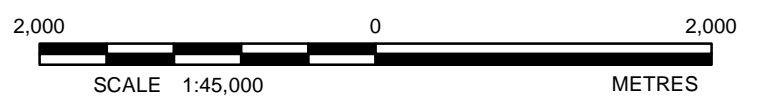


LEGEND

- Realignment Dams
- Polishing Pond
- Waterbodies
- Transmission Line
- Reclaim Pond
- Creek / River
- Watercourse Realignment
- Aggregate Pit
- Surface Water Flow Direction
- Highway 144
- Facilities
- Landfill
- Low-Grade Stockpiles
- Collection Ponds
- Mine Water Pond
- Mine Rock Area (MRA)
- Open Pit
- Tailings Management Facility (TMF)

REFERENCE

Open Pit Shell provided by IAMGOLD, May 2013
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PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE		Site Plan	
PROJECT No. 13-1192-0021		SCALE AS SHOWN	REV. 0
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REVIEW	JMP	Oct. 2013	





2.0 SCOPE OF WORK

The scope of work for the hydrogeological baseline study presented herein comprised the following activities in the general vicinity of the proposed open pit, proposed MRA, proposed TMF and areas previously considered for these facilities:

- site reconnaissance;
- borehole drilling, soil sample collection and laboratory testing of soil samples;
- installation of groundwater monitoring wells (single and nested);
- hydraulic conductivity testing of overburden and bedrock;
- monitoring of groundwater levels;
- data compilation and assessment of baseline hydrogeological conditions at the Project site; and
- identification of existing groundwater users in the area, including registered groundwater wells and Permits to Take Water (PTTW).

Groundwater quality samples were collected by IAMGOLD staff during the spring, summer and fall of 2012 and 2013. This data and an assessment of baseline groundwater quality at the Project site is provided in the Golder *Draft Water Quality Baseline Report*, dated October 25, 2013.

In the context of this report, the term 'baseline' is used to describe the conditions existing at the Project site as encountered during the field investigations carried out in 2012 and 2013. The report summarizes factual information collected during the time periods referenced herein and monitoring is on-going.

3.0 STUDY AREA

The hydrogeological baseline study area represents an area beyond the physical works and activities of the Project where changes to groundwater quantity (levels and flow) may occur as a result of Project activities. The rationale for the selection of the hydrogeological baseline study area is that groundwater flow effects from the Project are not expected to extend beyond watershed boundaries. As such, the study area generally extends to the nearest watershed boundary beyond the proposed infrastructure, proposed open pit, proposed MRA and proposed TMF. The hydrogeological baseline study area is generally bound by the following features:

- the Arctic/Atlantic watershed divide along the south and southwest;
- the Upper Mollie River watershed to the west of the proposed open pit;
- Mesomikenda Lake to the east; and
- the Somme River system associated with the Mesomikenda Lake watershed to the north and northwest



4.0 METHODS

Baseline hydrogeological conditions at the Project site were described in terms of the geological setting, physical characterization, and assessment of groundwater quantity (levels and flow). The methodology for this baseline study is described in the following sub-sections.

4.1 Desktop Review of Available Information

A review of available literature and regional information was conducted primarily from information provided by IAMGOLD and available public information. These data were used to establish the general geologic and hydrogeologic framework for the Project site. Publically available information for the Project is sparse and generally regional in coverage. A search of the Ontario Ministry of the Environment's (MOE) Water Well Record database and a query of PTTW within 15 km of the Project site was conducted.

Primary sources used in the desktop study for baseline hydrogeological investigation included:

- Previous reports prepared for IAMGOLD:
 - Technical Report on the Côté Gold Project, Chester Township, Ontario, Canada. NI 43-101 Report (Roscoe Postle Associates Ltd. 2012);
 - Technical Report on the Côté Lake Deposit, Chester Property, Ontario, Canada. NI 43-101 Report. (Roscoe Postle Associates Ltd. 2011);
 - Hydrogeological Assessment, Chester Project, Gogama, Ontario [AMEC Earth and Environmental Limited (AMEC) 2010]; and
 - Certified Groundwater Monitoring Plan, Trelawney Chester 2 Mine, Gogama, Ontario (AMEC Earth and Environmental Limited [AMEC] 2011).
 - Gauvreau GeoEnvironmental Group Inc. 2010. Hydrogeological Study, Chester Project, Chester Township, Ontario. G3 Project No. 09-003. March 1, 2010.
- data from exploration drill holes provided by IAMGOLD; and
- review of available geological mapping from the Ontario Ministry of Northern Development and Mines (MNDM).

4.2 Field Study Methods

The baseline hydrogeological field investigation focused on near surface (shallow bedrock and overburden) conditions in the vicinity of the proposed open pit, proposed MRA and proposed TMF and other areas considered for site infrastructure. In addition, some investigations were directed to characterising the hydraulic properties of deep bedrock in the vicinity of the proposed open pit.

The baseline hydrogeological investigation was initiated by Golder in early 2012 in conjunction with geotechnical investigations carried out by Knight Piésold Ltd. (Knight Piésold). Separate field investigations were carried out



by Golder and Knight Piésold throughout 2012 and 2013 and routine groundwater level monitoring events were carried out by IAMGOLD.

Activities conducted during the 2012-2013 baseline hydrogeological investigation are summarized below and described in greater detail in the following subsections:

- site reconnaissance to observe general hydrogeological conditions and assess selected locations for borehole drilling and monitoring well installation;
- drilling of 150 geotechnical/hydrogeological boreholes into the overburden and shallow bedrock (less than 20 m into bedrock) at 118 locations throughout the Project site and installation of groundwater monitoring wells (single and nested) at 62 of these locations;
- drilling of six angled drillholes into the deep bedrock (up to 600 m into bedrock) within the proposed open pit for geomechanical and hydrogeological characterization of major lithological units and structural features along pit walls;
- excavation of 260 test pits throughout the Project site;
- laboratory testing for particle size distribution of overburden soil samples from boreholes and test pits;
- in-situ hydraulic conductivity testing of overburden (slug tests) and bedrock (slug tests and packer tests);
- routine depth to groundwater measurements obtained manually at approximately 50 monitoring well locations in the spring, summer and fall; and
- installation and routine downloading of 20 data logging pressure transducers (data loggers) to record water levels hourly.

A number of different naming conventions were applied to boreholes, monitoring wells and test pits completed during field investigations carried out by Golder and Knight Piésold in 2012 and 2013. Refer to Appendix A for a detailed description of these naming conventions and site investigation methods.

A summary of borehole completion and monitoring well completion details are provided in Appendix B and Appendix C respectively. The complete record of borehole stratigraphy and monitoring well installation details are provided on borehole logs contained in Appendix D. A summary of test pit completion details and stratigraphic logs are provided in Appendix E and Appendix F respectively. Drillhole completion details and hydraulic conductivity profiles of the deep geomechanical boreholes in the proposed open pit are provided in Appendix G. Grain size distribution curves and laboratory test results for overburden samples are provided in Appendix H.

4.2.1 Site Reconnaissance

A Golder hydrogeologist visited the Project site on February 15, 2012, to conduct reconnaissance of hydrogeological conditions within the proposed Project footprint and to assess the suitability of some of the proposed borehole and groundwater monitoring locations previously selected based on a desktop review of available information. Further reconnaissance was conducted in December 2012 to select locations for test pit excavations for assessment of top of rock in the vicinity of the proposed open pit.



4.2.2 2012 Site Investigations

Knight Piésold carried out a site investigation comprised of borehole drilling, packer testing and monitoring well installations from February 6 to March 30, 2012, to evaluate the general soil and bedrock conditions in the vicinity of the proposed open pit, as well as areas being considered for the storage of proposed MRA and proposed TMF. A total of 55 boreholes were completed, including 43 groundwater monitoring well installations (single and nested) at 29 locations. Packer tests were carried out in 28 boreholes to assess hydraulic conductivity of the bedrock. Further description of the methods and results for this investigation are provided in the Knight Piésold report on *2012 Winter Site Investigation Summary (Ref. No. NB101-497/1-1)*, dated June 21, 2012.

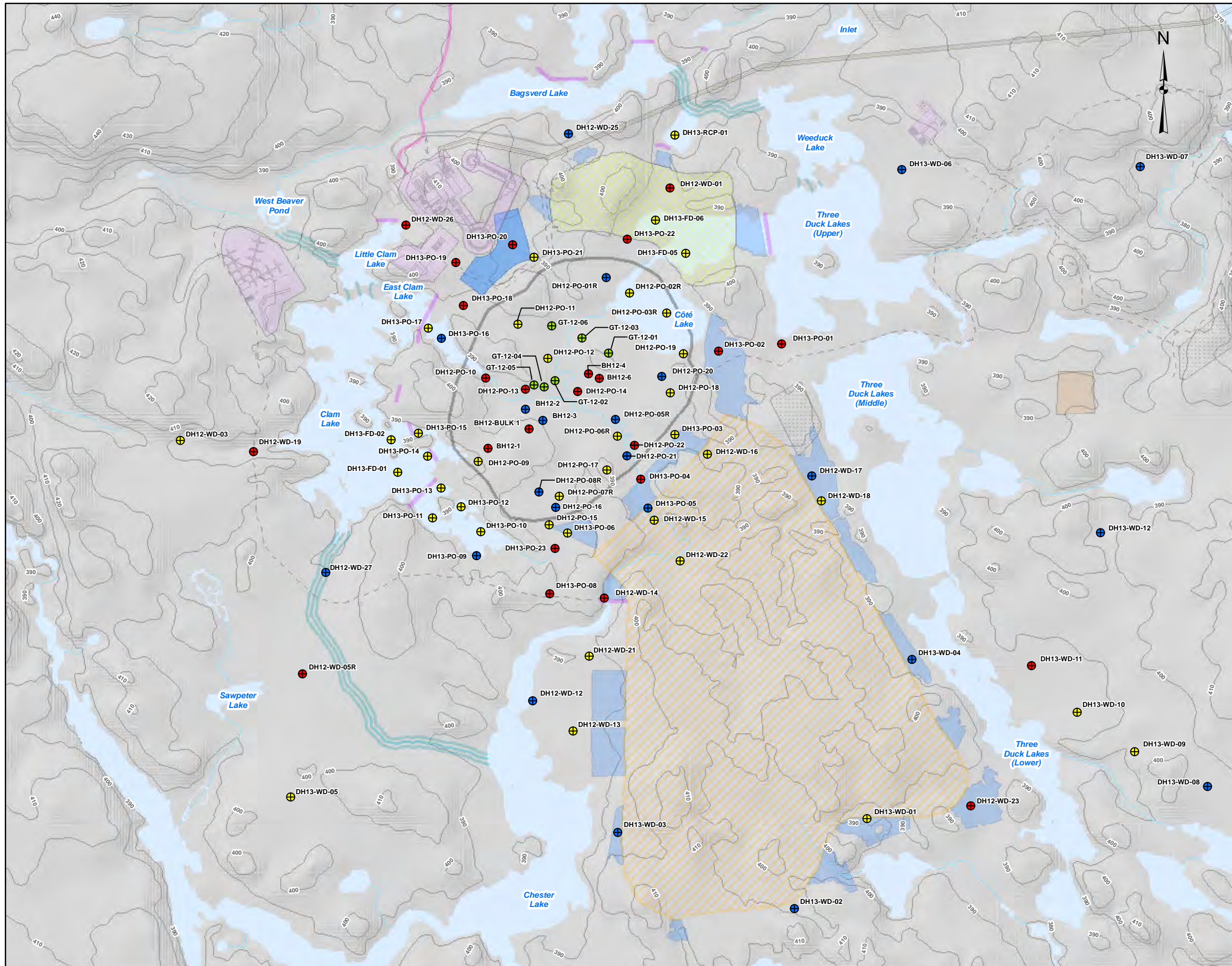
Golder conducted borehole drilling, monitoring well installation and hydraulic conductivity testing in the shallow bedrock and overburden within the proposed open pit from April 25 to April 30, 2012. A total of eight boreholes (BH12-1, BH12-2, BH12-3, BH12-4, BH12-6 and BH12-BULK 1) were completed at six locations, including groundwater monitoring well installations (single and nested) at each location, and hydraulic conductivity testing (slug tests) were conducted in each well. Further description of the methods for this investigation is provided in Appendix A.

Knight Piésold carried out a site investigation comprised of test pit excavations, borehole drilling and monitoring well installations from August 8 to September 12, 2012, to further evaluate the subsurface conditions along the perimeter of proposed open pit. A total of 151 test pits and 16 boreholes were completed, including 13 groundwater monitoring well installations (single and nested) at seven of these borehole locations. Two boreholes (DH12-PO-02R and DH12-PO-03R) were completed from a barge on Côté Lake to investigate lake bottom sediments. Further description of the methods and results for this investigation are provided in the Knight Piésold report on *2012 Summer Site Investigation Summary (Ref. No. NB101-497/1-4)*, dated January 18, 2013.

From June 8 to September 3, 2012, Knight Piésold conducted a geomechanical investigation comprised of six angled drillholes and hydraulic conductivity testing (packer tests) to characterise the rock mass and structural features (e.g. dikes and faults) over the full depth of the proposed open pit (to angled depths of up to 771 m). Further description of the methods and results for this investigation are provided in the Knight Piésold report on *Open Pit Slope Design (Ref. No. NB101-497/2-1 Rev 0)*, dated January 18, 2013.

From December 12 to 16, 2012, Golder conducted a detailed site reconnaissance to establish the presence of bedrock in areas of higher elevation and to better delineate groundwater flow paths through overburden in the vicinity of the proposed open pit. A total of 24 test pits were excavated using a CAT 320L excavator and the presence of bedrock in the vicinity of the proposed open pit was confirmed either visually or manually at an additional 59 locations. Further description of the methods for this investigation is provided in Appendix A.

Monitoring well and borehole locations, including the angled drillholes, are shown on Figure 3 and Figure 4. Test pit locations are shown on Figure 5, Figure 6 and Figure 7.

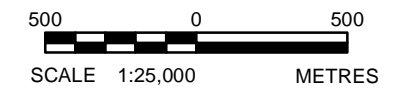


LEGEND

- ⊕ Geotechnical Borehole
- Single Monitoring Well
- ⊕ Nested Monitoring Well
- ⊕ Geomechanical Drillhole
- Tailings and Reclaim Pipeline
- Transmission Line
- Watercourse Realignment
- Realignment Dams
- Facilities
- Landfill
- Ore Stockpile
- Aggregate Pit
- Mine Rock Area (MRA)
- Collection Ponds
- Open Pit
- - - Site Access Roads
- Waterbodies
- Creek / River
- Topographic Index Contours (10m interval)

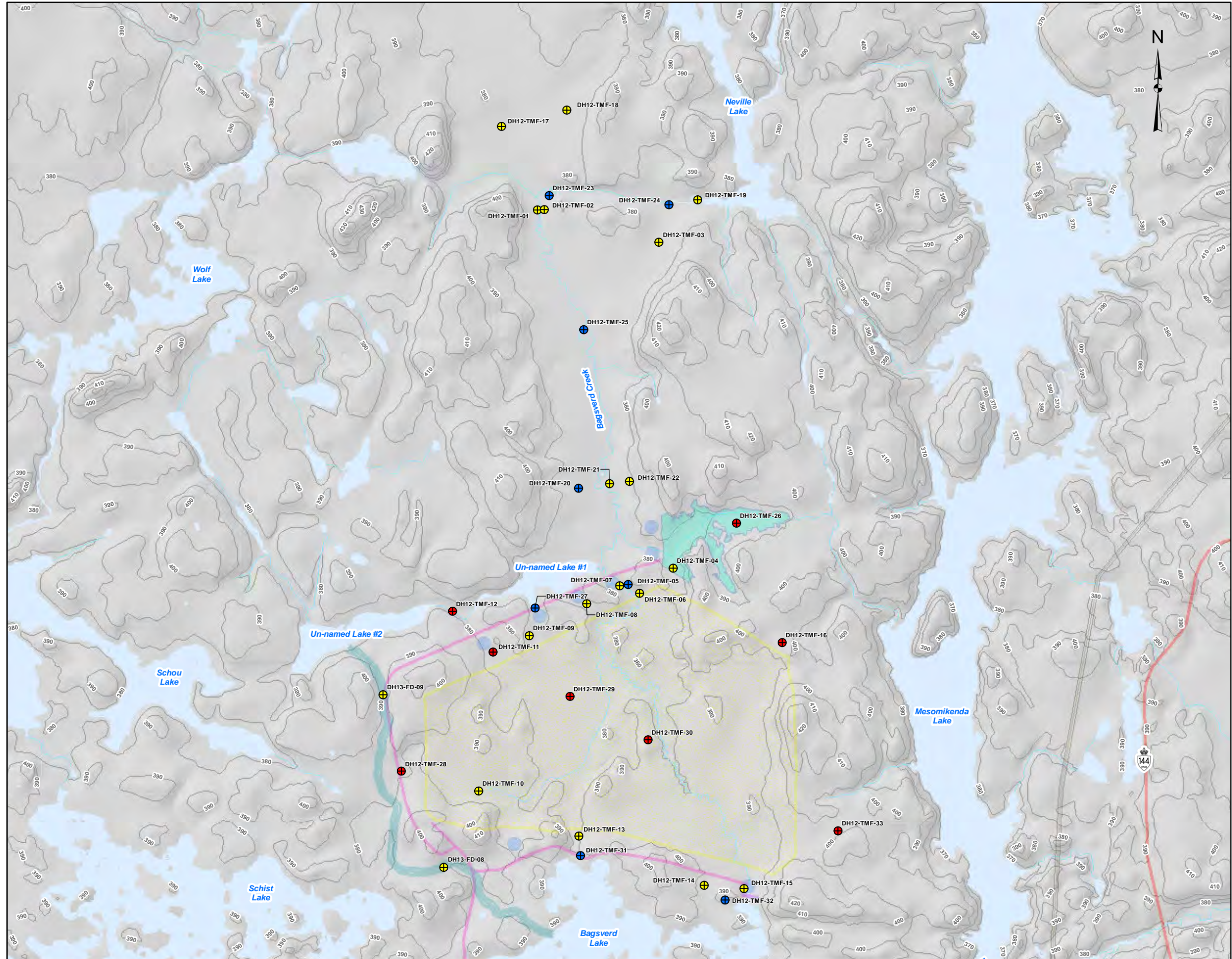
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Open Pit Shell provided by IAMGOLD, May 2013
 *Figure1 Based on info provided by AMEC (May 2013)
 Base Data - MNR NRVIS, CANMAP v2008.4
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 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17



PROJECT	IAMGOLD CÔTÉ GOLD PROJECT		
TITLE	Borehole and Monitoring Well Locations in Open Pit and Mine Rock Area		
	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
	DESIGN AL July 2013		
	GIS AL Oct. 2013		
	CHECK MO Oct. 2013		
	REVIEW JMP Oct. 2013	FIGURE: 3	

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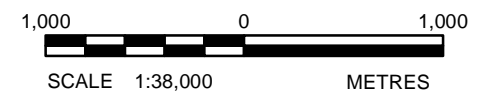


LEGEND

- Geotechnical Borehole
- Single Monitoring Well
- Nested Monitoring Well
- Transmission Line
- Watercourse Realignment
- Tailings and Reclaim Pipeline
- Realignment Dams
- Major Roads
- Polishing Pond
- Collection Ponds
- Tailings Management Facility (TMF)
- Waterbodies
- Creek / River
- Topographic Index Contours (10m interval)

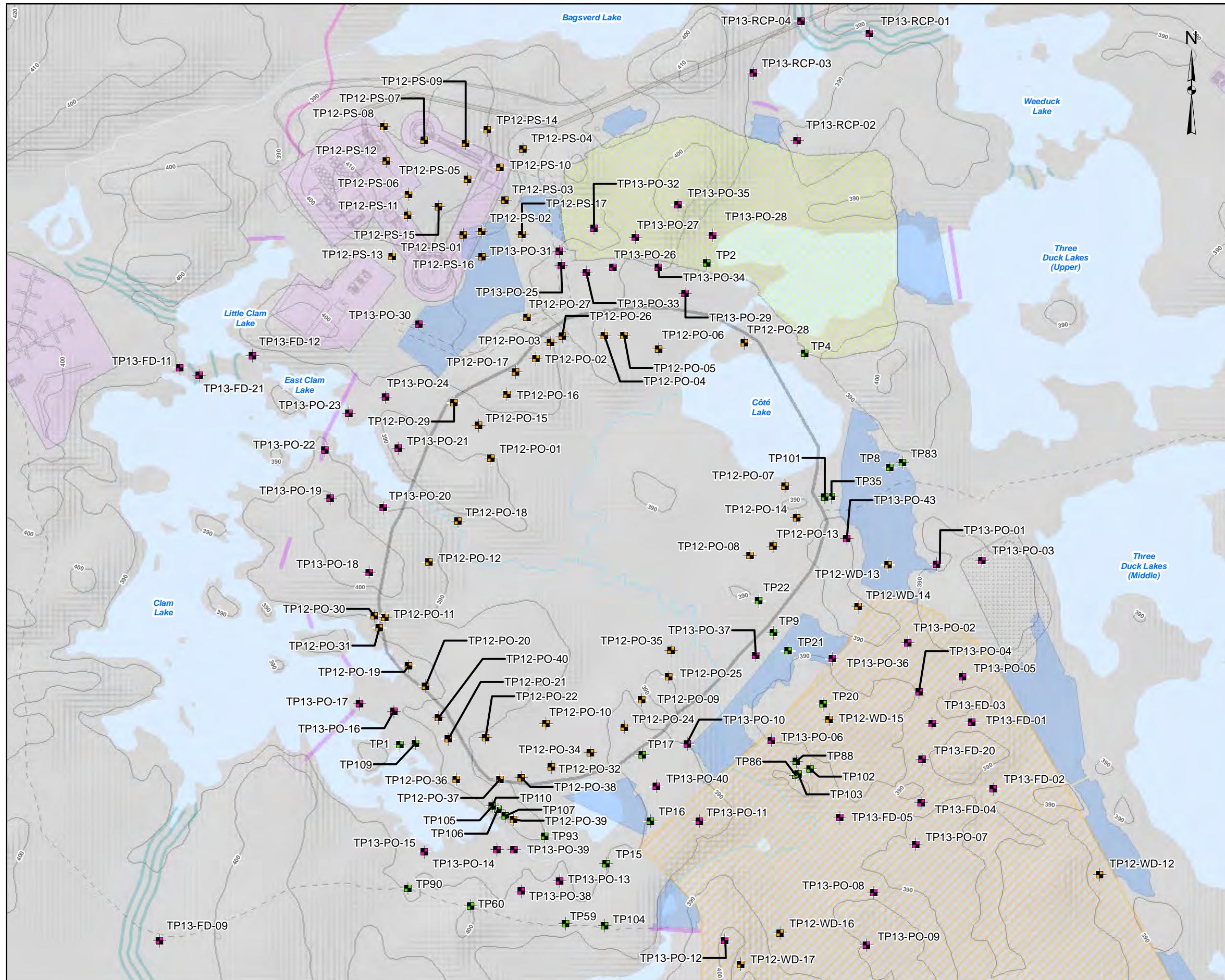
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PROJECT		CÔTÉ GOLD PROJECT	
TITLE			
Borehole and Monitoring Well Locations in Tailings Management Facility Area			
Golder Associates Sudbury, Ontario	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
	DESIGN AL July 2013		
	GIS RRD July 2013		
	CHECK MO July 2013		
REVIEW JMP July 2013			

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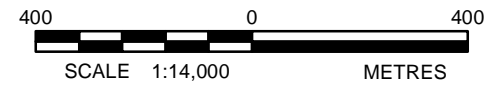


LEGEND

- Test Pit (Completed by Golder in 2012)
- Test Pit (Completed by Knight Piésold in 2012)
- Test Pit (Completed by Knight Piésold in 2013)
- Realignment Dams
- Watercourse Realignment
- Tailings and Reclaim Pipeline
- Transmission Line
- Site Access Roads
- Facilities
- Aggregate Pit
- Ore Stockpile
- Mine Rock Area (MRA)
- Collection Ponds
- Tailings Management Facility (TMF)
- Open Pit
- Waterbodies
- Creek / River
- Topographic Index Contours (10m interval)

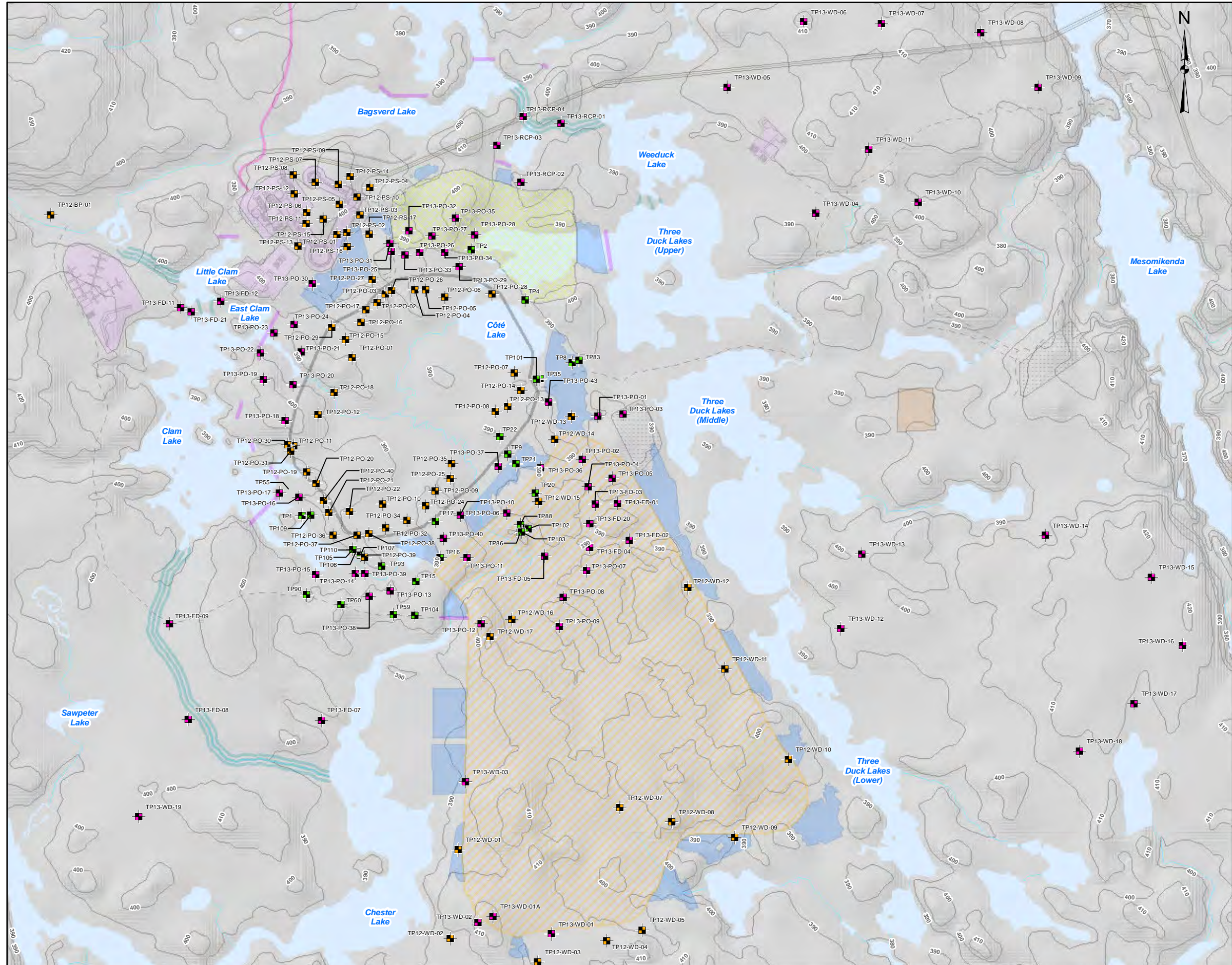
REFERENCE

Open Pit Shell provided by IAMGOLD, May 2013
 *Figure1 Based on info provided by AMEC (May 2013)
 Base Data - MNR NRVIS, CANMAP v2008.4
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 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17



PROJECT		CÔTÉ GOLD PROJECT	
TITLE			
Test Pit Locations in Open Pit Area			
 Sudbury, Ontario	PROJECT No.	13-1192-0021	SCALE AS SHOWN
	DESIGN	RDD July 2013	REV. 0
	GIS	AL Oct. 2013	FIGURE: 5
	CHECK	MO Oct. 2013	
REVIEW	JMP Oct. 2013		

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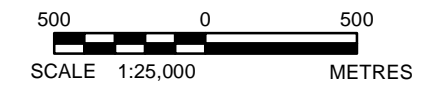


LEGEND

- Test Pit (Completed by Golder in 2012)
- Test Pit (Completed by Knight Piésold in 2012)
- Test Pit (Completed by Knight Piésold in 2013)
- Transmission Line
- Realignment Dams
- Watercourse Realignment
- Tailings and Reclaim Pipeline
- Site Access Roads
- Facilities
- Landfill
- Open Pit
- Aggregate Pit
- Ore Stockpile
- Mine Rock Area (MRA)
- Collection Ponds
- Waterbodies
- Creek / River
- Topographic Index Contours (10m interval)

REFERENCE

Open Pit Shell provided by IAMGOLD, May 2013
 *Figure1 Based on info provided by AMEC (May 2013)
 Base Data - MNR NRVIS, CANMAP v2008.4
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PROJECT	CÔTÉ GOLD PROJECT		
TITLE	Test Pit Locations in Open Pit and Mine Rock Area		
 Golder Associates Sudbury, Ontario	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
	DESIGN AL July 2013		
	GIS RRD July 2013		
	CHECK MO July 2013		
	REVIEW KAB July 2013	FIGURE: 6	



4.2.3 2013 Investigations

Knight Piésold carried out a site investigation comprised of test pit excavations, borehole drilling and monitoring well installations from January 29 to March 29, 2013, to evaluate the soil and bedrock conditions associated with the Project infrastructure components. Monitoring wells were installed along the perimeter of the proposed open pit and proposed MRA to investigate groundwater flow paths in overburden. A total of 83 test pits and 41 boreholes were completed, including 30 monitoring well installations (single and nested) at 20 of these locations. This program included borehole drilling through the ice (using portable drilling equipment) on Clam Lake, Three Duck Lakes (Upper) and two unnamed lakes to the north and south of the proposed open pit for the purpose of investigating lake bottom conditions in the vicinity of the proposed open pit. Borehole and monitoring well locations are shown on Figure 3 and Figure 4. Test pit locations are shown on Figure 5, Figure 6 and Figure 7.

Further description of the methods and results for this investigation are provided in the Knight Piésold report on *2013 Winter Site Investigation Summary (Ref. No. NB101-497/5-1 Rev 1)*, dated August 19, 2013.

4.2.4 Soil Laboratory Testing

Overburden soil samples were submitted to the Golder laboratory in Sudbury, Ontario, for particle size analysis using sieve and hydrometer methods (ASTM D422). Where the grain size was appropriate (i.e. effective grain size [d_{10}] between approximately 0.01 mm and 3.0 mm), the results of the grain size analyses were used to estimate the hydraulic conductivity using the Hazen method (Fetter 1994).

4.2.5 In-Situ Hydraulic Conductivity Testing

4.2.5.1 Slug Tests

A total of 82 single well rising head and/or falling head response tests (slug tests) were completed and the data were analyzed using the Hvorslev method (Fetter 1994) to estimate the hydraulic conductivity of overburden and bedrock materials. The slug test results are provided in Appendix I; Table 4, Table 5, and Appendix J; Table 1. Further description of the methods for the slug tests is provided in Appendix A.

4.2.5.2 Packer Tests

Knight Piésold carried out a total of 49 hydraulic conductivity tests (Lugeon packer tests) of the shallow bedrock (less than 10 m depth) in the vicinity of the proposed open pit and proposed TMF. The results of the Lugeon packer tests are provided in Appendix J.

Knight Piésold also conducted approximately 110 packer tests in the angled geomechanical drillholes in the proposed open pit. The results of these packer tests are provided in Appendix G and Appendix J.

Further description of the procedures and methods of analysis for the packer tests are provided in Appendix A.



4.2.6 Groundwater Level Monitoring

Depth to groundwater measurements were obtained manually by IAMGOLD staff during three field events in 2012 and two field events in 2013. Field monitoring events took place during spring, summer and fall in order to capture the natural variability in groundwater levels at the Project site.

Data loggers (Solinst Model 3001 LT Levellogger Junior Edge and Solinst Model 3001 LT Barologger Edge) were used to obtain a continuous (hourly) record of groundwater level and temperature fluctuations. Pressure data were corrected to barometric pressures recorded at the site. Monitoring wells that were instrumented with data loggers are shown in Table 1. Monitoring well locations are shown on Figure 3 and Figure 4.

Table 1: Summary of Monitoring Wells Instrumented with Data Loggers

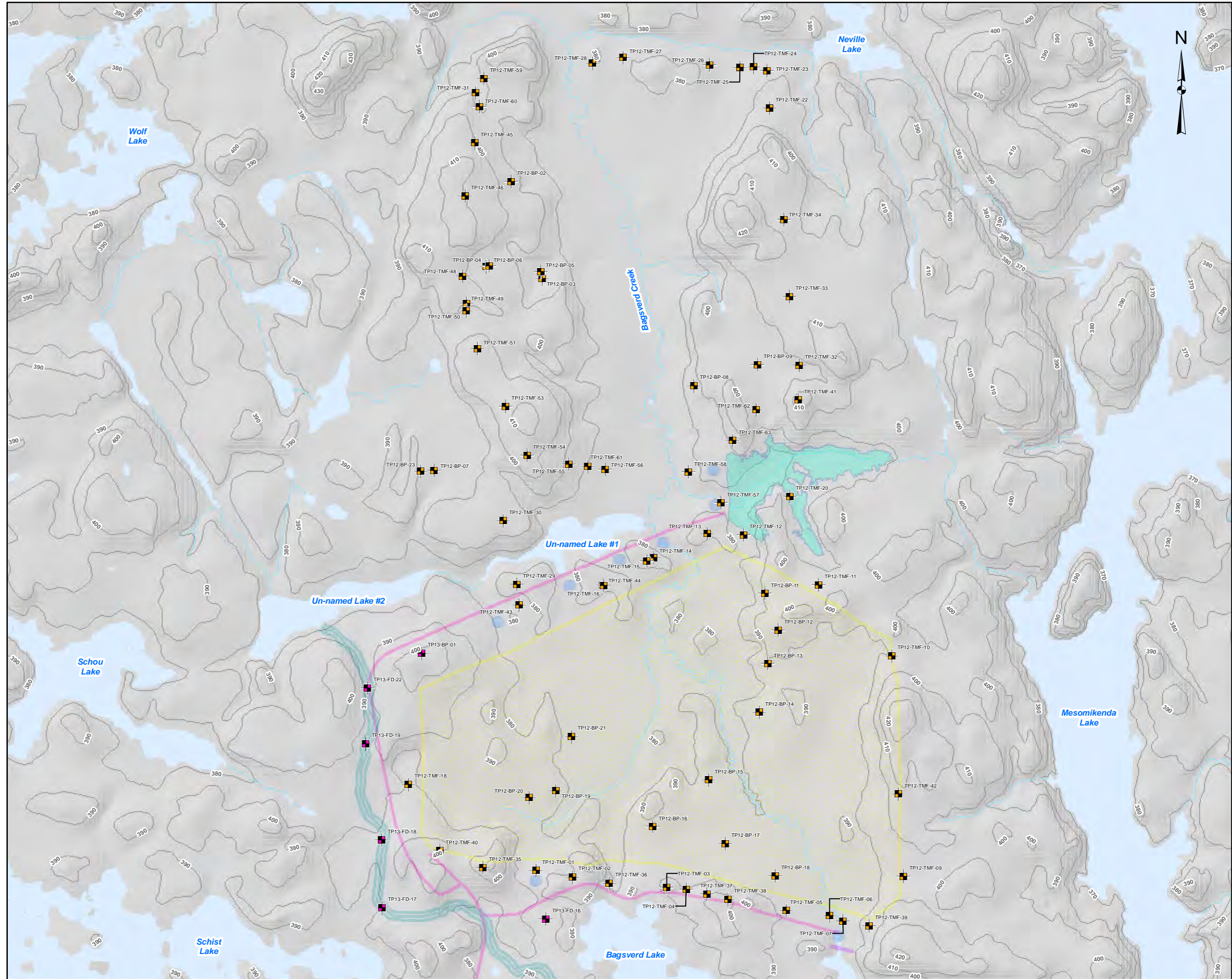
Monitoring Well ID	Available Record
DH12-PO-05RA	June 2012 – present (last download September 2013)
DH12-PO-05RB	June 2012 – present (last download September 2013)
DH12-PO-10	June 2012 – July 2013 (data logger removed from well)
DH12-TMF-05A	June 2012 – present (last download September 2013)
DH12-TMF-05B ^(a)	June 2012 – present (last download September 2013)
DH12-TMF-24A	June 2012 – July 2013 (data logger removed from well)
DH12-TMF-24B	June 2012 – July 2013 (data logger removed from well)
DH12-TMF-25A	June 2012 – July 2013 (data logger removed from well)
DH12-TMF-25B	June 2012 – July 2013 (data logger removed from well)
DH12-TMF-30	June 2012 – July 2013 (data logger removed from well)
DH12-TMF-31A	June 2012 – present (last download September 2013)
DH12-TMF-31B	June 2012 – present (last download September 2013)
DH12-WD-01	June 2012 – present (last download September 2013)
DH12-WD-12A	June 2012 – present (last download September 2013)
DH12-WD-12B	June 2012 – present (last download September 2013)
DH12-WD-14	June 2012 – present (last download September 2013)
DH12-WD-17A	June 2012 – present (last download September 2013)
DH12-WD-17B	June 2012 – present (last download September 2013)
DH12-WD-23	June 2012 – present (last download September 2013)
DH12-WD-26	June 2012 – present (last download September 2013)
DH13-PO-05A	July 2013 – present (last download September 2013)
DH13-PO-05B	July 2013 – present (last download September 2013)
DH13-PO-18	July 2013 – present (last download September 2013)

Note:

(a) Monitoring well is instrumented with a Levellogger Junior Edge data logger to record groundwater levels and a Barologger Edge data logger to record barometric pressure.

Manual depth to groundwater and groundwater elevation measurements are provided in Appendix L. Hydrographs of groundwater elevations and depths to groundwater obtained using data loggers are provided in Appendix M.

Path: Z:\Projects\2013\13-1192-0021\GIS\MXDs\Reporting\Hydrogeology\Baseline\Figure8_Test Pit Locations in TMF Area.mxd

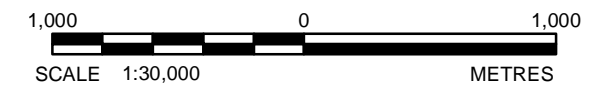


LEGEND

- Test Pit (Completed by Golder in 2012)
- Test Pit (Completed by Knight Piésold in 2012)
- Test Pit (Completed by Knight Piésold in 2013)
- Realignment Dams
- Watercourse Realignment
- Tailings and Reclaim Pipeline
- Polishing Pond
- Tailings Management Facility (TMF)
- Collection Ponds
- Waterbodies
- Creek / River
- Topographic Index Contours (10m interval)

REFERENCE

*Figure1 Based on info provided by AMEC (May 2013)
 Base Data - MNR NRVIS, CANMAP v2008.4
 Produced by Golder Associates Ltd under licence from Ontario Ministry of Natural Resources, © Queens Printer 2013
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17



PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE			
Test Pit Locations in Tailings Management Facility Area			
 Golder Associates Sudbury, Ontario	PROJECT No.	13-1192-0021	SCALE AS SHOWN
	DESIGN	RRD July 2013	REV. 0
	CHECK	MO Oct. 2013	FIGURE: 7
	REVIEW	JMP Oct. 2013	



5.0 BASELINE CONDITIONS

5.1 General Site Setting

The Project site is mainly characterized by forest-covered terrain dominated by many lakes and connecting streams. The site is located on two sub-watersheds, referred to as the Mollie River watershed and the Mesomikenda Lake watershed. Additionally, the intercontinental watershed divide is located south of the Project property, with the nearest boundary located southwest and more than 3.5 km from the proposed open pit location.

Topography in the area is typical of glaciated terrain of the Canadian Shield dominated by bedrock highs interspersed with many lakes, connecting streams and low-lying swamps and wetlands. The hilly terrain displays surface elevations generally ranging from 350 metres above sea level (masl) to 410 masl. Topographic highs are comprised of exposed bedrock, where parent materials were washed away or removed by glaciers, or covered by thin topsoil overlying a veneer of granular morainal or glaciofluvial materials. Surficial geology in low-lying areas generally consists of organics (often peat) overlying fine grained morainal deposits and/or granular till and glaciofluvial deposits at depth, often with a considerable cobble and boulder component. The underlying bedrock geology of the area generally consists of mafic metavolcanic rocks, metasedimentary rocks and pyroclastic rocks.

The Project is located within the Lake Abitibi (3E-5) Ecoregion (Crins 2002) which extends from Wawa, Ontario, in the west to just past the Ottawa River in the east (Environment Canada 2010). Throughout this region the typical forest habitat is described as a mixed forest dominated by jack pine, white spruce, balsam fir, trembling aspen, and white birch. Poorly drained low-lying areas are dominated by black spruce. Wetlands are characteristically bowl bogs that are treed and surrounded by peat margin swamps (Environment Canada 2010).

The following photos depict the typical terrain observed within the proposed open pit and proposed TMF, respectively. Photograph 1 is taken from the top of a hill at the northeast portion of the proposed open pit, looking west across the proposed open pit with the Mollie River flowing through the middle, outcropping bedrock on the right side and forest-covered hills in the background. Photograph 2 is taken from the road at the north end of the proposed TMF, near Unnamed Lake #1, looking south at Bagsverd Creek in the central portion of the proposed TMF, outcropping bedrock on the right side and forest-covered hills in the background.



Photograph 1: Looking west at Mollie River flowing through central portion of proposed open pit



Photograph 2: Looking south at Bagsverd Creek in central portion of Tailings Management Facility



5.2 Climate

Located in the Boreal Shield ecozone of Ontario (Natural Resources Canada 2012), the climate of the Project site is characterized by cold winters (-10°C to -35°C) and warm summers (+10°C to +35°C). Mean annual precipitation for the region is approximately 800 to 900 mm with wetter conditions south of the Project site and drier conditions to the north and west of the Project site (Fisheries and Environment Canada 1978).

Active regional climate monitoring stations are located in Timmins (120 km north of the Project site), Chapleau (110 km NW of the Project site) and Sudbury (140 km south of the Project site). Based on the 1971 to 2000, climate normals for these regional climate monitoring stations (Environment Canada 2012), total annual precipitation normals are 797 mm in Chapleau, 831 mm in Timmins and 899 mm in Sudbury. Of this total precipitation, the proportion that falls as snow is reported as 38% at Timmins, 35% at Chapleau and 31% at Sudbury. Average annual temperature ranges from 3.7°C at Sudbury to 1.3°C at Timmins.

5.3 Hydrology

The Project site is located within the Mattagami River Watershed, which has headwaters at the James Bay/Great Lakes divide and flows north for approximately 420 km to a confluence with the Moose River, which subsequently flows to James Bay. Drainage pathways from the Project site direct water northeast to Mesomikenda Lake or southeast to the Mollie River, both of which discharge to Minisinakwa Lake and subsequently to the Mattagami River.

The Mollie River connects a chain of lakes that discharge generally southwards through the proposed open pit and proposed MRA and then eastwards. The headwaters of the river include Moore Lake, which discharges sequentially through Attach Lake, Chester Lake, Côté Lake and Three Duck Lakes. Outflow from other lakes also contributes to the Mollie River, including Clam Lake (downstream of Chester Lake), Weeduck Lake (upstream of Three Duck Lakes) and smaller headwater ponds. The Mollie River discharges to Dividing Lake and east of Highway 144 into Minisinakwa Lake near the town of Gogama.

The Mesomikenda Lake watershed drains two main tributaries; the Somme River and Bagsverd Creek. The Somme River drains several headwater lakes located to the west, southwest and northwest of the Project site (e.g. Somme Lake, Wolf Lake, Whalsom Lake). Bagsverd Creek headwaters are located at Schist Lake and the creek flows north through the Project site to Neville Lake. Bagsverd Creek receives discharge from Bagsverd Lake and other headwater lakes, wetlands and ponds. Neville Lake discharges eastwards to Mesomikenda Lake, which in turn discharges to the Makani River and Minisinakwa Lake upstream of the Mattagami River.

Lake elevations decrease from about 386 metres above sea level (masl) at Clam Lake to the west to 381 masl at Three Duck Lakes reflecting the low topographic gradient eastwards across the area of the proposed open pit. To the north of the pit footprint, Bagsverd Lake drains northward through Bagsverd Creek that discharges into Mesomikenda Lake to the east.

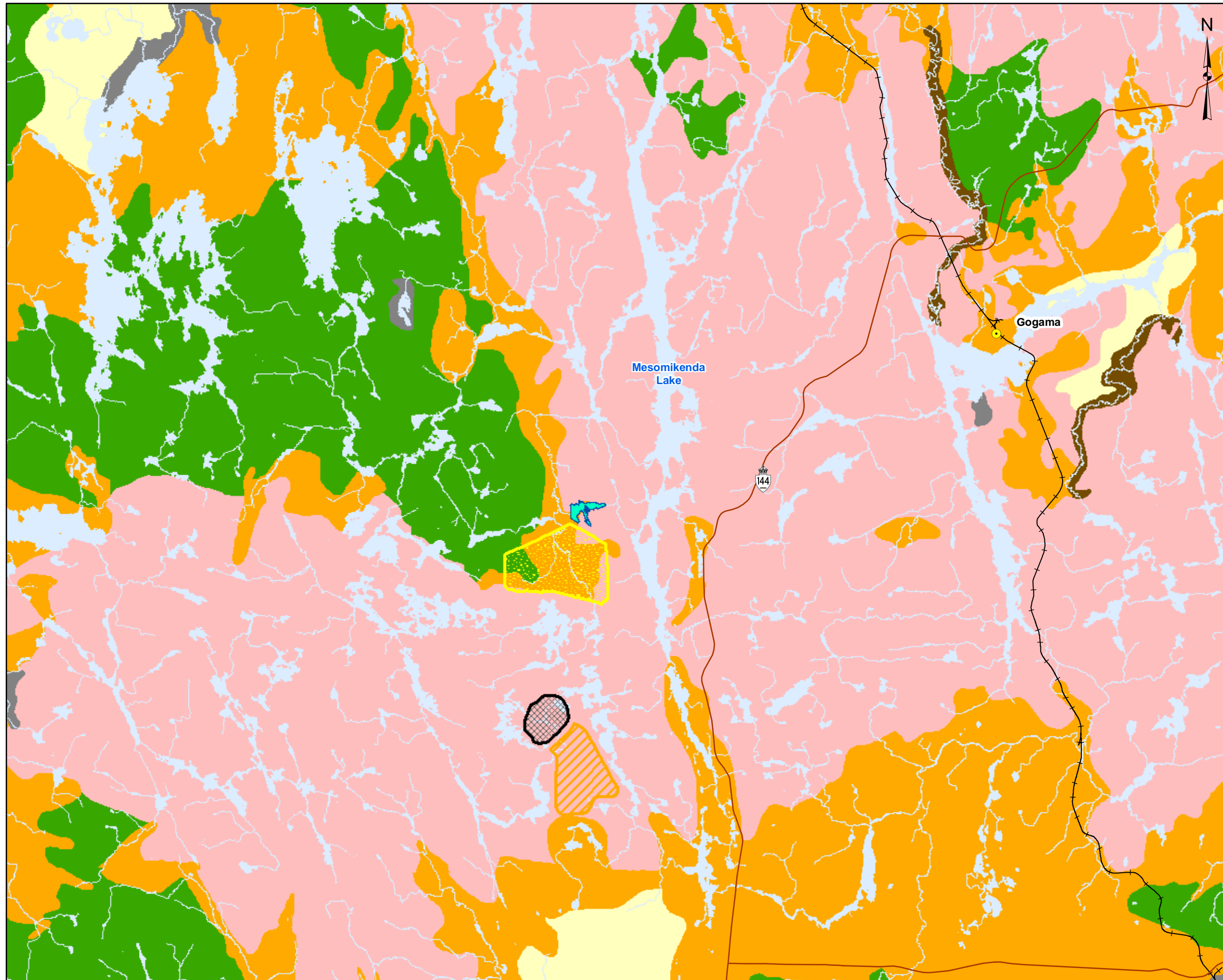


5.4 Regional Geology

5.4.1 Overburden

The regional landscape is dominated by frequent bedrock highs (often outcropping) reflecting the effects of glaciation and the infill of low-lying areas with glacial debris. Glacial till and fluvial deposits blanket the area and remnants of eskers, moraines and kames are frequently observed. Mapping of Quaternary geology shows glaciofluvial ice-contact deposits, including esker, kame, and moraine material in a north-south strip overlying the eastern boundary of Chester Township. Regional overburden geology is shown on Figure 8.

Path: Z:\Projects\2013\13-1192-0021\GIS\MXDs\Reporting\Hydrogeology\Baseline\Fig8_OverburdenGeology.mxd



LEGEND

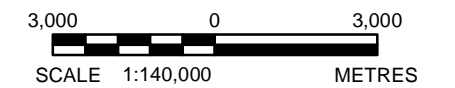
- Major Roads
- +— Railway
- ▨ Mine Rock Area (MRA)
- ▨ Polishing Pond
- ▨ Tailings Management Facility (TMF)
- ▨ Open Pit

NOEGTS

- Alluvial**
 - ▨ Alluvial Plain
- Bedrock**
 - ▨ Bedrock plateau
 - ▨ Bedrock knob
 - ▨ Bedrock plain
 - ▨ Bedrock ridge
- Colluvial**
 - ▨ Slope failure
 - ▨ Talus pile
 - ▨ Slopewash and debris creep sheet: minor talus
- Eolian**
 - ▨ Sand dunes
- Glaciofluvial**
 - ▨ Ice contact delta, esker delta, kame delta, delta moraine
 - ▨ Esker, esker complex, crevasse filling
 - ▨ Kame, kame field, Kmae terrace, kame moraine
 - ▨ Outwash plain, valley train
- Glaciolacustrine**
 - ▨ Raised (abandoned) beach ridge
 - ▨ Glaciolacustrine delta
 - ▨ Glaciolacustrine plain
- Morainial**
 - ▨ End Moraine
 - ▨ Ground Moraine
 - ▨ Hummocky moraine
- Organic**
 - ▨ Organics

REFERENCE

Open Pit Shell provided by IAMGOLD, May 2013
 Base Data - MNR NRVIS, CANMAP v2008.4
 Produced by Golder Associates Ltd under licence from
 Ontario Ministry of Natural Resources, © Queens Printer 2012
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17



PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE		Regional Overburden Geology	
<p>Golder Associates Sudbury, Ontario</p>	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
	DESIGN RRD Dec. 2012		
	GIS AL Oct. 2013		
	CHECK MO Oct. 2013		
	REVIEW JMP Oct. 2013		
			FIGURE: 8

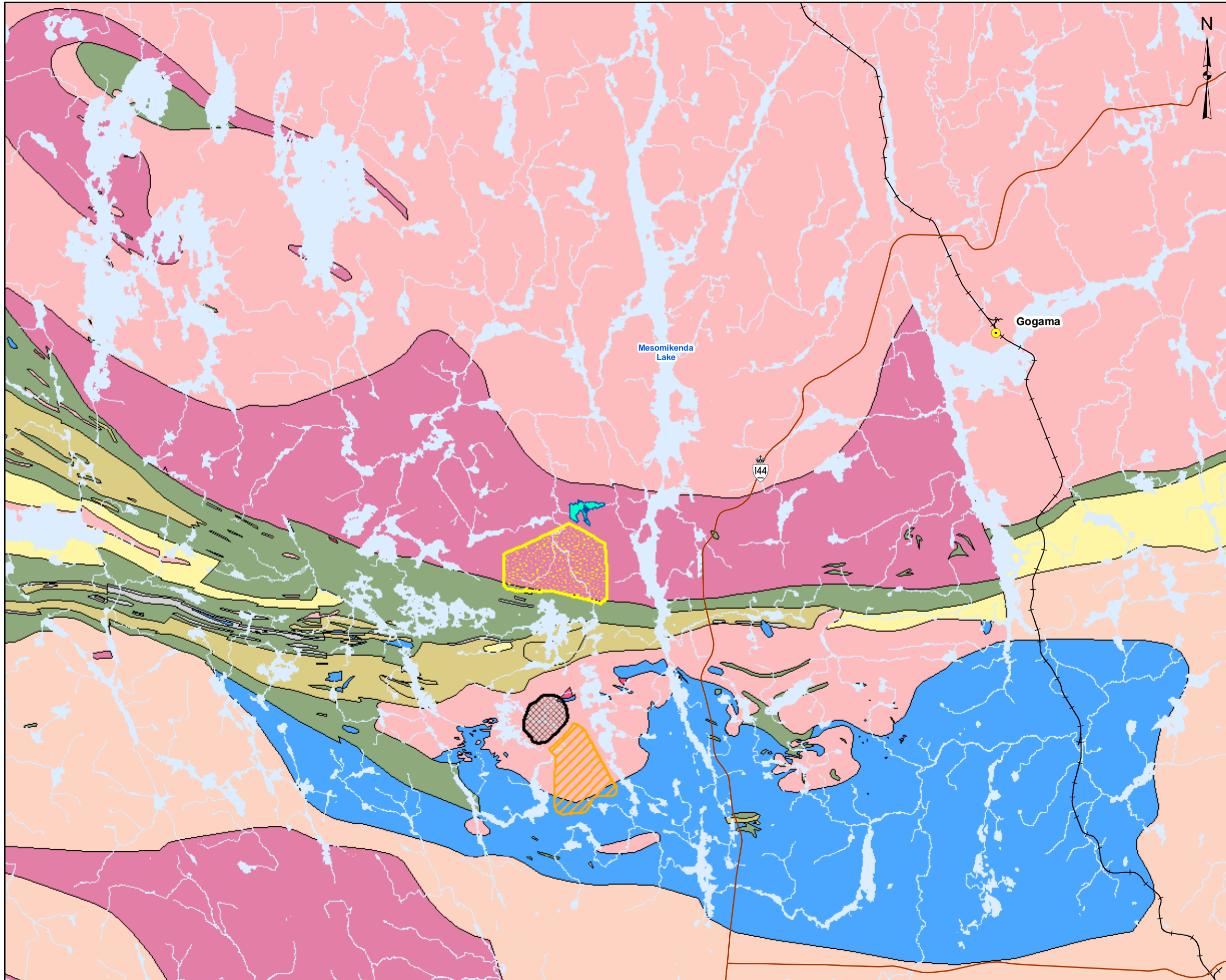


5.4.2 Bedrock

The Project site is located in the Swayze greenstone belt in the southwestern extension of the Abitibi greenstone belt of the Superior Province. This assemblage is part of the well-defined Ridout syncline. The Chester Granitoid Complex (CGC), which hosts the Côté Gold deposit, was emplaced along the southern margin of the Ridout syncline. The CGC is a synvolcanic crudely stratified trondhjemite-diorite laccolith containing numerous screens and inclusions of mafic volcanic rocks. The granitoid rocks in the area are heterogeneous, reflecting a number of primary igneous intrusive phases, migmatization and assimilation of older country rocks and local rafts and screens of the intruded lithologies. The Côté Gold deposit is thought to have formed when diorite intruded the granitoid rocks of the CGC along a major fault or other structure. Breccias developed at the intrusive contacts and provided a pathway for hydrothermal alteration fluids and the mineralizing fluids. The host granitoid rocks locally consist of tonalite and quartz diorite. Regional bedrock geology is shown on Figure 9.

Further description of regional bedrock geology is provided in the *NI43-101 Technical Reports* for the Project (Roscoe Postle 2011; Roscoe Postle 2012) and in the Knight Piésold report on *Open Pit Slope Design (Ref. No. NB101-497/2-1 Rev 0)*.

Path: Z:\Projects\2013\13-1192-0021\GIS\MXDs\Reporting\Hydrogeology\Baseline\Fig9_BedrockGeology.mxd

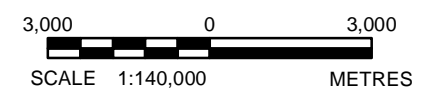


LEGEND

- Major Roads
- +— Railway
- ▨ Mine Rock Area (MRA)
- Polishing Pond
- Tailings Management Facility (TMF)
- Open Pit
- 15 Massive granodiorite to granite
- 14-Diorite-monzodiorite-granodiorite suite
- 14a Diorite, monzonite, quartz monzonite
- 12 Foliated tonalite suite
- 11 Gneissic tonalite suite
- 10 Mafic and ultramafic rocks
- 9a Metasedimentary rocks: conglomerate, arkose, arenite, wacke, sandstone, siltstone, argillite
- 7 Metasedimentary rocks
- 7c Marble, chert, iron formation, minor metavolcanic rocks
- 6a Dacitic and Andesitic flows, tuffs and breccias
- 6b Rhyolitic, rhyodacitic flows, tuffs and breccias
- 5 Mafic to intermediate metavolcanic rocks

REFERENCE

Open Pit Shell provided by IAMGOLD, May 2013
 Base Data - MNR NRVIS, CANMAP v2008.4
 Produced by Golder Associates Ltd under licence from
 Ontario Ministry of Natural Resources, © Queens Printer 2012
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17



PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE			
Regional Bedrock Geology			
 Golder Associates Sudbury, Ontario	PROJECT No. 13-1192-0021		SCALE AS SHOWN
	DESIGN	RRD	Dec. 2012
	GIS	AL	Oct 2013
	CHECK	MO	Oct 2013
REVIEW	JMP	Oct 2013	REV. 0
			FIGURE: 9



5.5 Local Geology

5.5.1 Overburden

Due to high variability in grain size distribution and discontinuous layering of the glaciofluvial ice-contact and morainal overburden deposits encountered, overburden materials have been subdivided into the following categories; Organics, Fine Grained, Fine Granular and Coarse Granular. The nomenclature for the various material types within each category was adopted by Knight Piésold for the purposes of this discussion.

- **Organics:** Organic materials including Topsoil, Peat and Organic Sediment.
- **Fine Grained Overburden**
 - **CLAY:** Main fraction is Clay. Content of Silt, Sand and coarser fractions are less than 20%.
 - **CLAY/SILT:** Main fraction is Clay. Silt content is greater than 20%.
 - **SILT/CLAY:** Main fraction is Silt. Clay content is greater than 20%.
 - **SILT:** Main fraction is Silt. Content of Clay, Sand and coarser fractions are less than 20%.
- **Fine Granular Overburden**
 - **SILT/SAND:** Main fraction is Silt. Sand content is greater than 20%.
 - **SAND/SILT:** Main fraction is Sand. Silt content is greater than 20%.
 - **SAND:** Main fraction is Sand. Content of fines and coarser fractions are less than 20%.
- **Coarse Granular Overburden**
 - **SAND/GRAVEL:** Main fraction is Sand. Gravel content is greater than 20%.
 - **GRAVEL:** Main fraction is Gravel. Content of fines and coarser fractions are less than 20%.
 - **GRAVEL/COBBLES:** Main fraction is Gravel. Content of coarser fractions is greater than 20%.
 - **TILL:** Coarse grained glacial material with varying content of fines, Sand and coarser fractions.

Table 2 provides a summary of overburden stratigraphy observed at borehole and test pit locations completed during the 2012 and 2013 site investigations, including the range and average thickness of the various materials.



Table 2: Summary of Overburden Stratigraphy Encountered in Boreholes and Test Pits

	Organics	Fine Grained Overburden				Fine Granular Overburden				Coarse Granular Overburden				Total
	ORGANICS/PEAT	CLAY	CLAY/SILT	SILT/CLAY	SILT	SILT/SAND	SAND/SILT (A)	SAND	SAND/SILT (B)	SAND/GRAVEL	GRAVEL	GRAVEL/COBBLES	TILL	
Number of Occurrences	338	3	2	4	66	56	102	181	26	32	10	14	91	383 ⁽⁵⁾
Percentage of Occurrence ⁽¹⁾	88%	1%	1%	1%	17%	15%	27%	47%	7%	8%	3%	4%	24%	n/a ⁽⁶⁾
Maximum Thickness (m) ⁽²⁾	9.60	0.75	1.50	2.73	8.75	8.75	10.12	9.18	5.70	9.10	4.12	2.20	14.97	22.60 ⁽⁷⁾
Minimum Thickness (m) ⁽³⁾	0.01	0.70	0.70	0.60	0.10	0.20	0.20	0.10	0.30	0.30	0.41	0.12	0.10	0.00 ⁽⁸⁾
Average Thickness (m) ⁽⁴⁾	1.11	0.72	1.10	1.38	1.66	2.17	2.02	1.82	2.41	2.10	1.85	1.05	2.55	4.04 ⁽⁹⁾

Notes:

- (1) "Percentage of Occurrence" represents the percentage of test locations at which this material was encountered.
- (2) "Maximum Thickness (m)" represents the maximum thickness of the material, where present, in metres.
- (3) "Minimum Thickness (m)" represents the minimum thickness of the material, where present, in metres.
- (4) "Average Thickness (m)" represents the average thickness of the material, where present, in metres.
- (5) Total number of boreholes and test pits completed during 2012 and 2013 site investigations.
- (6) Not applicable.
- (7) Maximum total thickness of overburden encountered at all borehole and test pit locations.
- (8) Minimum total thickness of overburden encountered at all borehole and test pit locations.
- (9) Average total thickness of overburden encountered at all borehole and test pit locations.



HYDROGEOLOGY BASELINE REPORT

The Project site is generally characterized by hilly terrain with areas of higher elevation land comprised of exposed bedrock or covered by thin topsoil overlying a veneer of granular moraine or glaciofluvial deposits. Surficial geology in low-lying areas generally consists of organics (often peat) overlying fine grained moraine deposits and/or granular moraine and glaciofluvial deposits at depth, often with minimal fines and a considerable cobble and boulder component. Where present, at higher elevations, the overburden is typically less than two metres thick. Photograph 3 depicts the overburden stratigraphy typically observed on higher elevation land. The overburden encountered in test pit TP60 comprised 0.1 m of organic topsoil overlying 0.4 m of sandy silt and silty sand overlying bedrock. The overburden encountered in test pit TP104 comprised 0.3 m of topsoil overlying 2.1 m of sand overlying bedrock. Bedrock is shown at the base of both test pits depicted below. The overburden was typically dry at higher elevations.



Photograph 3: Typical overburden stratigraphy at higher elevations; showing bedrock exposed in the bottom of the test pit.

In low-lying areas, the overburden is typically comprised of peat overlying fine grained and fine granular mixtures of clayey silt to sand overlying coarse granular mixtures of silty sand to gravel, cobbles and till. The overburden in these areas is typically greater than four metres thick and often greater than 10 m thick. Photograph 4 depicts the overburden stratigraphy and saturated ground conditions typically observed in low-lying areas. The overburden materials underlying the peat in test pit TP9 could not be investigated due to sidewall caving and excessive groundwater inflow. The overburden encountered in test pit TP88 comprised 0.3 m of peat overlying



at least 2.7 m of sand. Depth to bedrock could not be established in either test pit due saturated ground conditions and sidewall caving.



Photograph 4: Typical ground conditions and overburden stratigraphy in low-lying areas.

5.5.1.1 Proposed Open Pit and Proposed Mine Rock Area

At the proposed open pit perimeter, the overburden was relatively shallow to non-existent at higher elevations with thicker, often coarse granular materials encountered at depth between topographic highs. Where present, overburden in the proposed open pit area ranged in thickness from 0.1 m (TP12-PO-12) on higher elevation lands to greater than 22 m (DH12-PO-22) in low-lying areas.

The overburden encountered at higher elevation in the open pit area was primarily comprised of thin to non-existent topsoil overlying fine grained and fine granular materials with occasional underlying deposits of coarse granular material overlying bedrock. Overburden deposits encountered at low-lying test locations were primarily comprised of peat overlying fine grained and fine granular mixtures overlying coarse granular deposits overlying bedrock.

Similar overburden stratigraphy was encountered in the proposed MRA, primarily comprised of organics (often peat) overlying fine grained and fine granular materials with occasional underlying deposits of coarse granular



deposits overlying bedrock. Where present, overburden thickness averaged approximately 5 m, ranging from 0.6 m to greater than 22 m in some low-lying areas.

5.5.1.2 Tailings Management Facility Area

The proposed TMF is characterized by a central low-lying area (approximate elevation 376 masl) through which Bagsverd Creek flows southeast to north-northwest through the central portion of the area. Higher topography occurs near the east and west boundaries of the proposed TMF.

Higher topography comprised of relatively thin overburden (typically 1 m to 8 m thick) and occasional outcropping bedrock was observed at higher elevations around the perimeter of the proposed TMF. Thicker deposits of overburden occurred in the central low-lying portion of the proposed TMF along Bagsverd Creek (DH12-TMF-29) and other low-lying areas near surface water features outside of the tailings area footprint (DH12-TMF-25). In general, overburden thickness in the proposed TMF averaged about 6 m, ranging in thickness from approximately 1 m to greater than 17 m in low-lying areas.

The overburden encountered at higher elevation test locations was generally similar to the proposed open pit and proposed MRA, primarily comprised of thin to non-existent organic topsoil overlying fine grained and fine granular materials overlying bedrock. Overburden deposits encountered at low-lying test locations were primarily comprised of peat overlying fine grained and fine granular mixtures of clayey silt to sand with occasional underlying deposits of coarse granular deposits overlying bedrock.

5.5.1.3 Lake Bottom Sediments

Lake bottom sediments observed in Côté Lake ranged in thickness from 7.8 m to 16.8 m and were generally comprised of organic silt overlying mixtures of fine grained and fine granular materials. A deposit of coarse granular till was observed underlying the silty sand layer in the deeper of the two boreholes (DH12-PO-03R).

Lake bottom sediments observed in Clam Lake ranged in thickness from 1.1 m to 8.7 m and were generally comprised of organic silt overlying mixtures of fine grained and fine granular materials. Coarse granular deposits were observed underlying the fine granular layers in boreholes DH13-PO-12 and DH13-PO-17. Layers of clay to silty clay ranging in thickness from 0.7 m to 1.5 m were observed underlying the organic silt in boreholes DH13-PO-10, DH13-FD-01 and DH13-FD-02.

Bottom sediments observed in Three Duck Lakes (Upper) and the two unnamed lakes to the north and south of the proposed open pit ranged in thickness from 8.5 m to 13.7 m and were generally comprised of the same stratigraphy observed in Côté Lake with organics overlying mixtures of fine grained and fine granular materials, with occasional coarse granular deposits at depth (DH13-PO-06).

5.5.2 Bedrock

The Chester Township area overlies a narrow greenstone (supracrustal) assemblage which is part of the Ridout syncline which separates the Kenogamissi granitoid complex to the north from the Ramsey-Algoma granitoid complex to the south, a portion of the northern edge of which is called the CGC. The Kenogamissi complex consists of sheet-like dioritic and tonalitic intrusions, which are interpreted locally to be synvolcanic. The CGC, which hosts the Côté Gold deposit is also synvolcanic and was emplaced along what is now the southern margin



of the Ridout syncline. The CGC is a crudely stratified trondhjemite-diorite laccolith containing numerous screens and inclusions of mafic volcanic rocks.

The Chester Group occupies the bulk of the stratigraphy of the Ridout syncline through Chester Township and Yeo Township to the west. The Chester Group includes mafic volcanic rocks and amphibolite of the Arbutus Formation and the overlying intermediate volcanic rocks with associated minor sedimentary rocks and iron formation of the Yeo Formation. Bedding and foliation are steep to vertical. Both formations are highly folded and flattened.

In Chester, Yeo, and Potier Townships, a package of mafic volcanic rocks occurs south of and stratigraphically below the Chester Group felsic volcanic rocks and iron formation. These pillowed and massive volcanic rocks are interpreted to be the base of the Chester volcanic cycle. To the south of the Chester volcanic rocks is the CGC.

The RDZ, a major zone of east-west high strain that more or less follows the north boundary of Chester Township and extends a further 22 km to the west, is described as an anastomosing zone, up to 500 m wide, of high strain with local strong carbonate (calcite and Fe-carbonate), chlorite, sericite, and silica alteration within a wide variety of rock types.

Descriptions of the main lithological units are as follows:

- **Tonalite:** This unit is a medium to coarse grained intermediate intrusive, inequigranular texture and is light grey or light pink in color. Two generations of tonalite have been observed with the older tonalite hosting the deposit and the younger intrusion injecting tonalite, diorite and breccia bodies, and is not related to any mineralizing events. The tonalite has also been referred to as granodiorite in previous reports.
- **Diorite:** This intermediate intrusive unit ranges from fine to medium grained to coarse grained to pegmatitic to quartz-porphyritic in texture and intrudes the tonalite hosting the deposit. Diorite constitutes the matrix of the main breccia body with a hydrothermal overprint. The Diorite also forms a series of E-W trending lenses within the deposit. The unit is generally massive with minor zones of weak foliation and shearing, minor fracturing, veining and jointing throughout. Mineralization is characterized by trace disseminated pyrite-chalcopyrite. Alteration is characterized by weak hematite, carbonate and epidote alteration with strong to intense silica-albite marginal to the main E-W fault and the main breccia body. This unit has also been referred to as both Diorite and Gabbro in previous reports.
- **Breccias:** The Breccias are thought to be associated with the disseminated gold mineralization. Four main types of breccia are recognized throughout the deposit including diorite magmatic breccia, hydrothermal breccia, magmatic mixing breccia and heterolithic quartz carbonate breccia with the hydrothermal breccia as the core of the deposit and host the majority of disseminated gold mineralization, semi-massive chalcopyrite-pyrite-pyrrhotite (up to >5%) and the vein hosted gold. The diorite magmatic breccia and hydrothermal breccia have been referred to as both diorite breccia and gabbro breccia in previous reports.
- **Diabase Dikes:** Diabase dikes are found throughout the deposit striking NW and dipping steeply to the NE. They can range in thickness from centimeter scale up to 30 m wide and are found cross cutting all units throughout the deposit. The dikes range in texture from fine grained and siliceous to med grained to feldspar glomeroporphyritic. Fracture hosted carbonate veining, very weak to weak hematite alteration and weak epidote alteration of feldspar phenocrysts is common. Diabase dikes are not associated with the gold mineralization within the deposit.



- **Mafic Dikes:** The mafic dikes are a fine grained mafic intrusive with sharp contacts with the host rock. They are numerous throughout the deposit in a “sheeted” fashion and range from centimeter scale to several metres in width. They are commonly strongly foliated, folded and crenulated with moderate to strong chlorite-carbonate alteration. Barren quartz, carbonate and quartz carbonate veining throughout and concentrated along contacts with the host rock is common. Mafic dikes are not associated with gold mineralization within the deposit.
- **Intermediate and Felsic Dikes:** Minor dikes of intermediate composition are present throughout the deposit and are commonly fine grained and foliated with weak hematite, chlorite, sericite, carbonate and silica alteration. These dikes have sharp contacts with the host rocks and show trace disseminated pyrite and chalcopyrite mineralization. Intermediate dikes are not associated with the gold mineralization. Felsic dikes are composed of quartz and feldspar phenocrysts, set in a fine grained felsic matrix. Felsic dikes are a minor feature in the deposit and show trace disseminated pyrite-chalcopyrite mineralization with weak silicification, hematite, carbonate, sericite, chlorite and epidote alteration. Felsic dikes are commonly massive with some instances of strong foliation and not associated with gold mineralization within the deposit.

Further description of bedrock stratigraphy encountered in drillholes completed during the 2012 Geomechanical Investigation is provided in the Knight Piésold report on *Open Pit Slope Design (Ref. No. NB101-497/2-1 Rev 0)*.

5.6 Hydraulic Conductivity

Estimates of hydraulic conductivity (K) values of the overburden materials and bedrock have been developed from the following methods:

- Estimation of soil hydraulic conductivity from grain size analysis using the Hazen method (Fetter 1994).
- Single well rising head and falling head response tests (slug tests).
- Packer testing of shallow bedrock (less than 10 m depth).
- Packer testing of deep bedrock (up to 600 m depth) and structural features within the proposed open pit.

5.6.1 Overburden

Estimates of overburden hydraulic conductivity developed from grain size data are provided in Appendix I; Table 1, Table 2, Table 3 while the results from slug testing are provided in Appendix I; Table 4, Table 5. These results are summarized on Table 3 and Table 4 below; providing the maximum, minimum and geometric mean hydraulic conductivity of overburden materials at the site.

Table 3: Estimates of Overburden Hydraulic Conductivity (K) from Slug Tests

General Overburden Category	Material Type	Slug Test Results			
		Number of Tests	Hydraulic Conductivity		
			Measure	K (m/s)	K (m/d)
Coarse Granular	TILL	13	Max	2.5E-03	213.0



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General Overburden Category	Material Type	Slug Test Results				
		Number of Tests	Hydraulic Conductivity			
			Measure	K (m/s)	K (m/d)	
	GRAVEL, GRAVEL/SAND, SAND/GRAVEL	15	Min	1.2E-06	0.1	
			Geomean	1.9E-05	1.6	
			Max	3.6E-04	31.1	
	Fine Granular	SAND	13	Min	8.5E-08	0.0
				Geomean	5.7E-06	0.5
				Max	9.5E-05	8.2
SAND/SILT, SILT/SAND		11	Min	7.1E-07	0.1	
			Geomean	4.3E-06	0.4	
			Max	1.4E-05	1.2	
Fine Grained	SILT	4	Min	3.7E-07	0.0	
			Geomean	1.1E-06	0.1	
			Max	1.8E-06	0.2	



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Table 4: Estimates of Overburden Hydraulic Conductivity (K) from Grain Size Analyses

General Overburden Category	Material Type	Grain Size Results (Hazen Method)			
		Number of Tests	Hydraulic Conductivity		
			Measure	K (m/s)	K (m/d)
Coarse Granular	TILL	0	n/a		
	GRAVEL, GRAVEL/SAND, SAND/GRAVEL	42	Max	1.E-03	124.8
			Min	1.E-06	0.1
			Geomean	2.E-05	1.4
Fine Granular	SAND	67	Max	6.E-04	54.0
			Min	1.E-06	0.1
			Geomean	2.E-05	1.9
	SAND/SILT, SILT/SAND	54	Max	3.E-05	2.4
			Min	4.E-07	0.0
			Geomean	1.E-06	0.1
Fine Grained	SILT	0	n/a		

Notes:
n/a: no data available

The results indicate that the hydraulic conductivity of overburden materials encountered throughout the Project site is highly variable, spanning over six orders of magnitude ranging from 8.5×10^{-8} m/s to 2.5×10^{-3} m/s. It should be noted that coarse granular moraine and glaciofluvial deposits encountered at depth generally had minimal fine grained components and therefore the higher hydraulic conductivity values observed.

5.6.2 Bedrock

Estimates of bedrock hydraulic conductivity from packer tests and slug tests are detailed in Appendix J and summarized on Table 5. This table presents the range and geometric mean hydraulic conductivity for bedrock depth intervals (below top of rock) of 0 m to 10 m, 10 m to 50 m, 50 m to 200 m, and greater than 200 m.

Table 5: Bedrock Hydraulic Conductivity (K) Profile

Depth (m btor) ⁽¹⁾	Number of Tests	Estimated Hydraulic Conductivity		
		Measure	K (m/s)	K (m/d)
0 – 10	56	Max	3.4E-04	29.59
		Min	1.0E-11 ⁽²⁾	0.00
		Geomean	1.0E-07	0.01
10 – 50	22	Max	6.7E-06	0.58
		Min	1.0E-11 ⁽²⁾	0.00
		Geomean	4.6E-08	0.00
50 – 200	36	Max	4.0E-06	0.35
		Min	1.0E-11 ⁽²⁾	0.00



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Depth (m btor) ⁽¹⁾	Number of Tests	Estimated Hydraulic Conductivity		
		Measure	K (m/s)	K (m/d)
Over 200	57	Geomean	3.0E-09	0.00
		Max	5.5E-08	0.00
		Min	1.0E-11 ⁽²⁾	0.00
		Geomean	2.6E-10	0.00

Notes:

(1) Depths are provided in metres below top of bedrock surface encountered

(2) Hydraulic conductivity values of 1.0E-11 were assigned to packer test intervals where no measurable flow was observed

The hydraulic conductivity of the shallow bedrock (i.e. the upper 10 m) encountered throughout the Project site is highly variable, spanning eight orders of magnitude ranging from 1.0×10^{-11} m/s to 3.4×10^{-4} m/s, with a geomean of 1.0×10^{-7} m/s. As depicted on Figure 10, the bedrock hydraulic conductivity was less variable and typically decreased with depth. Test data on Figure 10 have also been presented against rock type and structure. These results indicate that bedrock structure and rock type exert little to moderate influence on bedrock hydraulic conductivity.

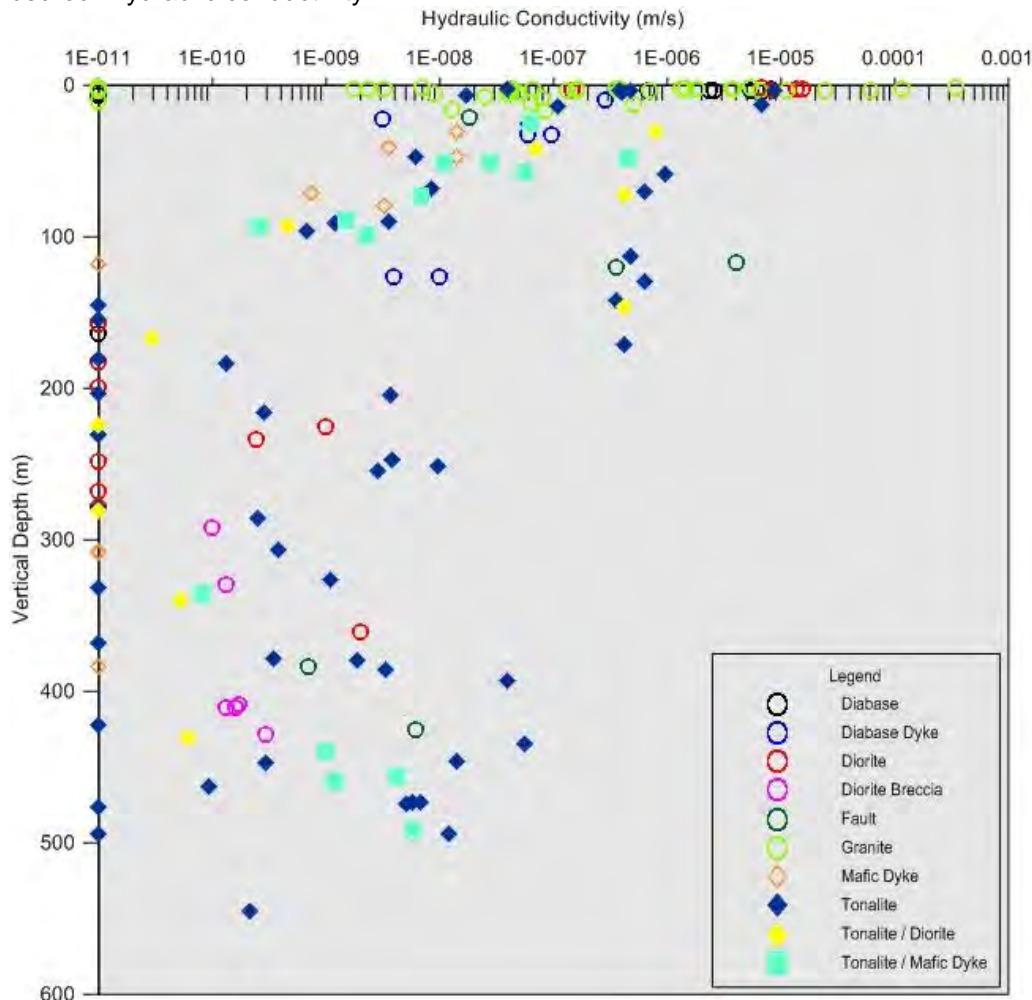


Figure 10: Bedrock Hydraulic Conductivity versus Bedrock Depth and Lithology



5.7 Groundwater Levels

5.7.1 Groundwater Elevations

A summary of the maximum, minimum, average and range of groundwater elevations [provided in metres above mean sea level (masl)] is provided in Table 6. The values provided in Table 6 incorporate both manual measurements and data logger records (where available).

Table 6: Summary of Groundwater Elevations

Project Component	Monitoring Well ID	Groundwater Elevation			
		Maximum (masl) ⁽¹⁾	Minimum (masl) ⁽¹⁾	Average (masl) ⁽¹⁾	Range (m) ⁽²⁾
Proposed Open Pit	BH12-1	392.97	391.79	392.29	1.18
	BH12-BULK 1	394.06	391.93	392.87	2.13
	BH12-2A	383.02	381.67	382.13	1.35
	BH12-2B	383.58	381.93	382.52	1.65
	BH12-3A	384.21	383.11	383.63	1.10
	BH12-3B	383.89	382.94	383.42	0.95
	BH12-4	381.40	381.18	381.25	0.22
	BH12-6	383.82	382.33	383.08	1.49
	DH12-PO-01RA	381.52	380.88	381.20	0.64
	DH12-PO-01RB	381.50	381.17	381.34	0.33
	DH12-PO-05RA	381.22	380.60	380.84	0.63
	DH12-PO-05RB	381.43	380.33	381.01	1.10
	DH12-PO-08RA	385.50	385.29	385.40	0.21
	DH12-PO-08RB	385.44	385.23	385.34	0.21
	DH12-PO-10	386.92	385.18	386.66	1.74
	DH12-PO-13	381.70	381.48	381.62	0.22
	DH12-PO-14B	381.24	381.04	381.18	0.20
	DH12-PO-16A	385.53	385.44	385.49	0.09
	DH12-PO-16B	385.58	385.38	385.48	0.20
	DH12-PO-20A	382.52	382.38	382.45	0.14
	DH12-PO-20B	382.70	382.41	382.56	0.29
	DH12-PO-21A	381.22	381.00	381.11	0.22
	DH12-PO-21B	381.30	381.02	381.16	0.28
	DH12-PO-21C	381.28	380.99	381.14	0.29
	DH12-PO-22	381.15	381.01	381.08	0.14
	DH13-PO-01	380.82	380.79	380.81	0.03
	DH13-PO-02	381.52	381.52	381.52	0.00
	DH13-PO-04	381.25	380.87	381.06	0.38
DH13-PO-05A	381.30	380.82	381.05	0.48	



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Project Component	Monitoring Well ID	Groundwater Elevation			
		Maximum (masl) ⁽¹⁾	Minimum (masl) ⁽¹⁾	Average (masl) ⁽¹⁾	Range (m) ⁽²⁾
	DH13-PO-05B	380.80	380.64	380.73	0.17
	DH13-PO-08	389.10	388.72	388.91	0.38
	DH13-PO-09A	386.80	386.72	386.76	0.08
	DH13-PO-09B	386.12	386.05	386.09	0.07
	DH13-PO-16A	385.83	385.70	385.77	0.13
	DH13-PO-16B	385.75	385.71	385.73	0.04
	DH13-PO-18	387.04	386.73	386.93	0.31
	DH13-PO-19	397.56	397.47	397.52	0.09
	DH13-PO-20	388.03	387.99	388.01	0.04
	DH13-PO-22	382.02	381.29	381.66	0.73
	DH13-PO-23	385.70	385.61	385.66	0.09
Proposed Mine Rock Area (MRA)	DH12-WD-01	382.63	381.99	382.26	0.64
	DH12-WD-05R	393.45	392.49	392.97	0.96
	DH12-WD-12A	386.45	385.92	386.12	0.53
	DH12-WD-12B	386.37	385.86	386.04	0.51
	DH12-WD-14	385.99	385.17	385.41	0.82
	DH12-WD-17A	382.09	381.10	381.50	0.99
	DH12-WD-17B	382.09	381.08	381.55	1.01
	DH12-WD-19	394.74	393.86	394.36	0.88
	DH12-WD-23	380.71	379.85	380.39	0.86
	DH12-WD-25A	380.70	380.14	380.57	0.56
	DH12-WD-25B	380.73	380.18	380.59	0.55
	DH12-WD-26	387.98	387.41	387.66	0.57
	DH12-WD-27A	388.78	388.34	388.67	0.44
	DH12-WD-27B	388.78	388.35	388.66	0.43
	DH13-WD-02A	394.65	394.64	394.65	0.01
	DH13-WD-02B	394.69	394.68	394.69	0.01
Proposed Tailings Management Facility (TMF)	DH12-TMF-05A	373.28	371.78	372.67	1.50
	DH12-TMF-05B	373.15	371.60	372.49	1.55
	DH12-TMF-11	374.26	373.85	374.13	0.41
	DH12-TMF-12	372.67	372.05	372.51	0.62
	DH12-TMF-16	388.58	388.51	388.54	0.07
	DH12-TMF-20A	372.70	372.61	372.66	0.09
	DH12-TMF-20B	372.72	372.58	372.65	0.14
	DH12-TMF-23A	372.48	371.87	372.21	0.61



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Project Component	Monitoring Well ID	Groundwater Elevation			
		Maximum (masl) ⁽¹⁾	Minimum (masl) ⁽¹⁾	Average (masl) ⁽¹⁾	Range (m) ⁽²⁾
	DH12-TMF-23B	372.11	371.58	371.78	0.53
	DH12-TMF-24A	370.49	369.54	369.95	0.95
	DH12-TMF-24B	370.22	369.25	369.68	0.97
	DH12-TMF-25A	372.35	371.01	371.35	1.34
	DH12-TMF-25B	372.27	371.13	371.50	1.14
	DH12-TMF-26	383.13	382.96	383.02	0.17
	DH12-TMF-27A	372.92	372.11	372.61	0.81
	DH12-TMF-27B	372.90	372.09	372.59	0.81
	DH12-TMF-28	386.85	386.52	386.72	0.33
	DH12-TMF-29	373.91	373.90	373.91	0.01
	DH12-TMF-30	380.35	377.35	378.21	3.00
	DH12-TMF-31A	379.74	378.33	379.02	1.41
	DH12-TMF-31B	379.44	378.30	378.60	1.14
	DH12-TMF-32A	385.61	383.91	384.82	1.70
	DH12-TMF-32B	385.65	384.46	385.33	1.19
	DH12-TMF-33	395.72	394.28	395.07	1.44

Notes:

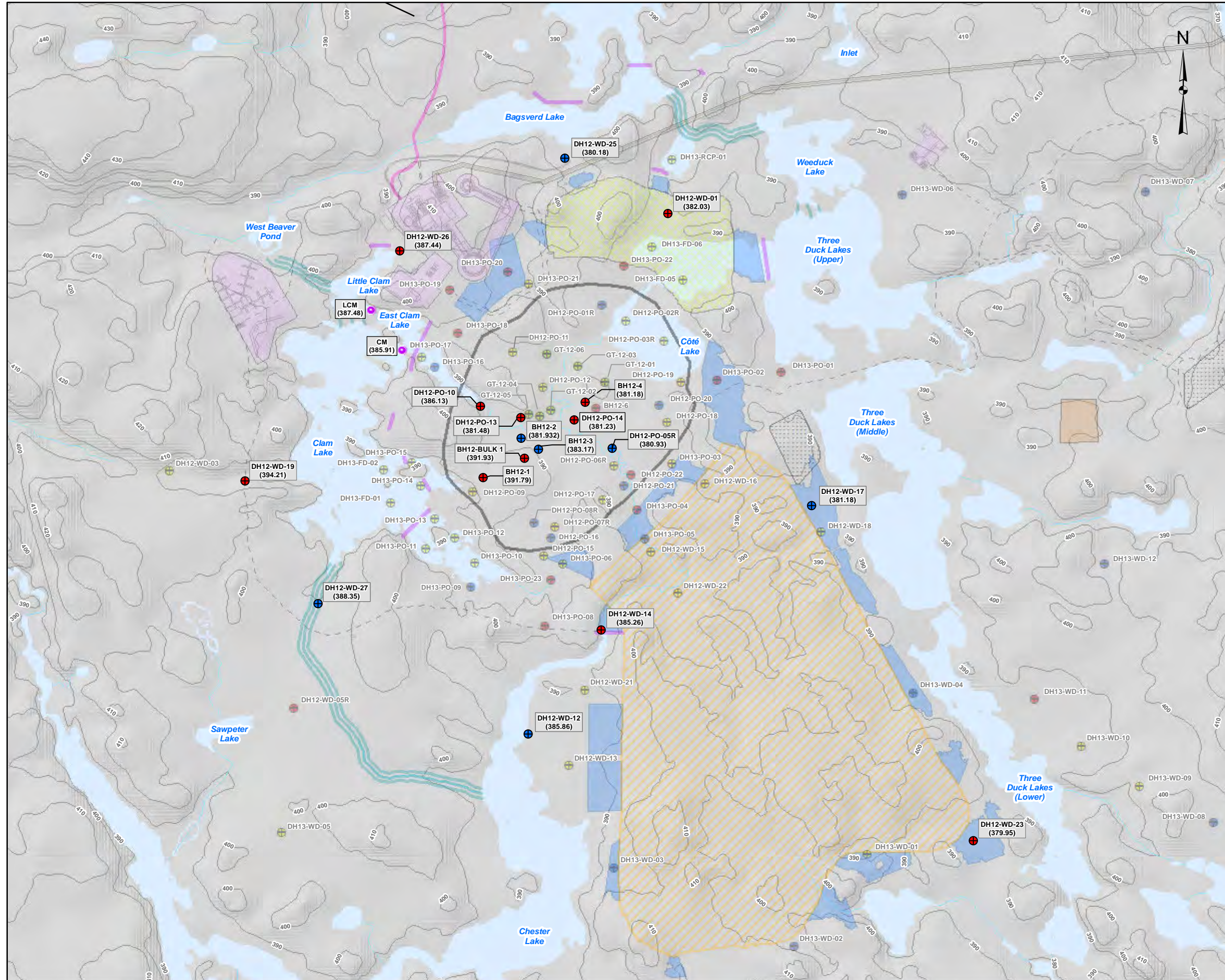
(1) Groundwater elevations are presented in metres above mean sea level (masl)

(2) "Range (m)" represents the difference (in metres) between the maximum and minimum groundwater elevations observed

Groundwater elevations ranged from over 397 masl to less than 370 masl, but they were typically in the range of about 375 masl to 390 masl. The seasonal range of groundwater levels at most monitoring locations was less than 1.5 m, with the exception of a few locations, primarily along the Bagsverd Creek valley, where groundwater levels varied seasonally by as much as 3 m (DH12-TMF-30). Groundwater and surface water elevations observed at select monitoring locations in August 2012 are shown on Figure 11 and Figure 12.

Groundwater elevations generally declined from southwest and west to east and northeast across the site, generally consistent with the decline in lake elevations across this area. Groundwater flow is topographically controlled and the water table generally provides a subdued reflection of the local scale topography with flow from higher elevation to discharge areas at lower elevation bogs and wetlands or lakes and streams.

As shown on hydrographs in Appendix M; Figure 1 and Figure 2, groundwater elevations observed in monitoring wells along the Mollie River system were similar to nearby lake levels and reflect the southward decline in lake levels observed in this flow system. Groundwater levels decreased by approximately 0.5 m from DH12-WD-12 to DH12-WD-14 along Chester Lake and approximately 1.0 m from Little Clam Lake (DH12-WD-26) and the outflow of Clam Lake (DH12-PO-10). Further along the Mollie River system, groundwater levels adjacent to Three Duck Lakes decreased by approximately 2 m from Three Duck Lakes (Upper) (DH12-WD-01) to Three Duck Lakes (Lower) (DH12-WD-23). The monitoring locations and groundwater elevations discussed herein are shown on Figure 11.



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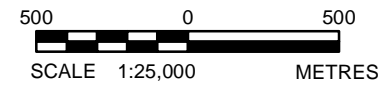
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- Single Monitoring Well
- ⊕ Nested Monitoring Well
- ⊕ Geomechanical Drillhole
- Hydrological Monitoring Locations
- Tailings and Reclaim Pipeline
- Transmission Line
- Watercourse Realignment
- Realignment Dams
- Facilities
- Landfill
- Ore Stockpile
- Aggregate Pit
- Mine Rock Area (MRA)
- Collection Ponds
- Open Pit
- Site Access Roads
- Waterbodies
- Creek / River
- Topographic Index Contours (10m interval)

NOTES

- (386.53) Groundwater elevations observed in August 2012, provided in metres above sea level (masl)
- Surface water elevations observed on August 15th, 2013, provided in metres above sea level (masl)

REFERENCE

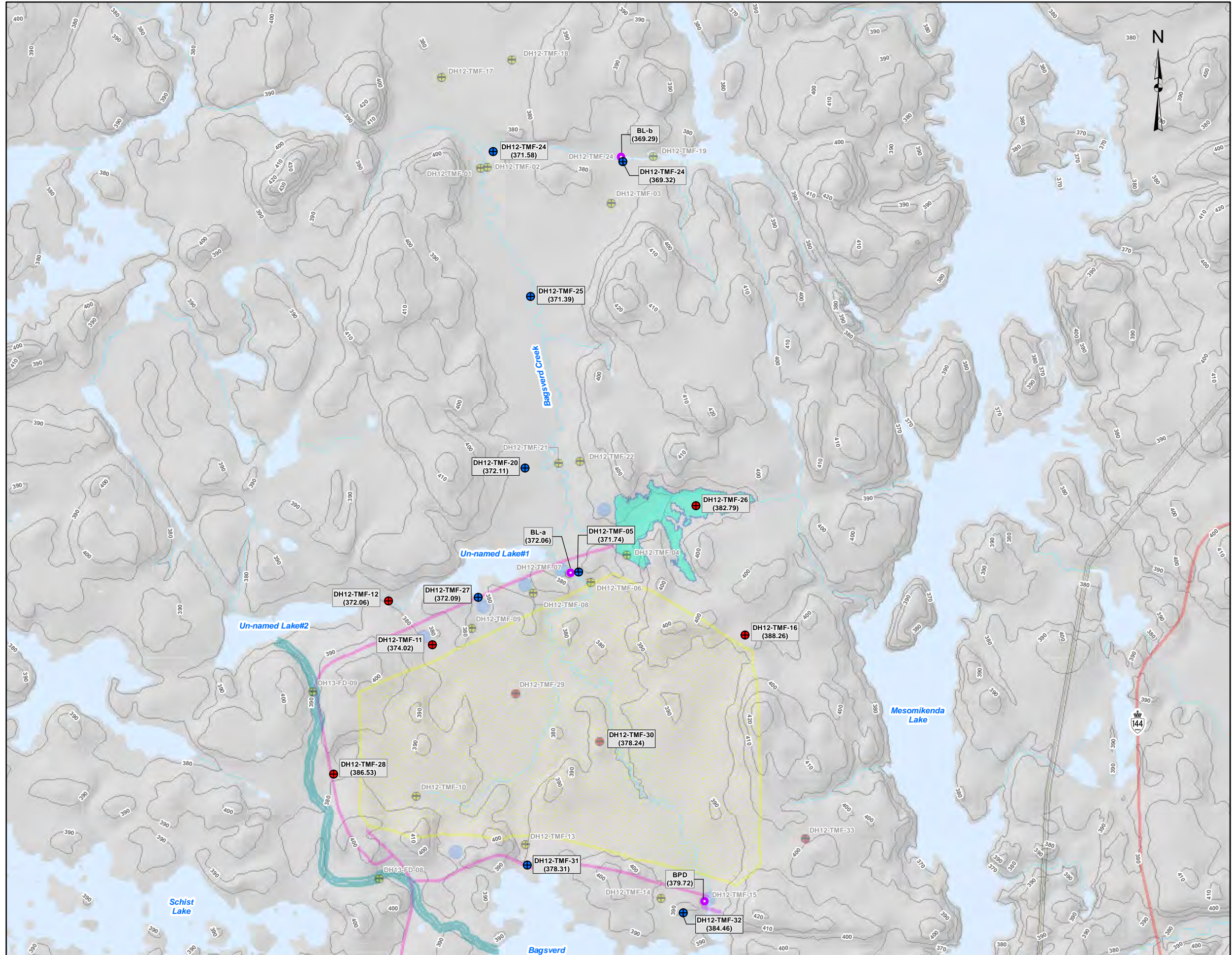
Open Pit Shell provided by IAMGOLD, May 2013
 *Figure1 Based on info provided by AMEC (May 2013)
 Base Data - MNR NRVIS, CANMAP v2008.4
 Produced by Golder Associates Ltd under licence from Ontario Ministry of Natural Resources, © Queens Printer 2012
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17



PROJECT		IAMGOLD CÔTÉ GOLD PROJECT	
TITLE		Groundwater Elevations in Open Pit and Mine Rock Area (August 2012)	
 Golder Associates Sudbury, Ontario	PROJECT No.	13-1192-0021	SCALE AS SHOWN
	DESIGN	RRD July 2013	REV. 0
	GIS	AL Oct. 2013	FIGURE: 11
	CHECK	MO Oct. 2013	
REVIEW	JMP July 2013		

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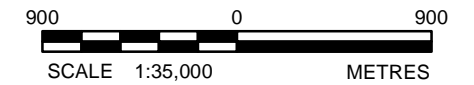
- Geotechnical Borehole
- Single Monitoring Well
- Nested Monitoring Well
- Hydrological Monitoring Locations
- Transmission Line
- Watercourse Realignment
- Tailings and Reclaim Pipeline
- Realignment Dams
- Major Roads
- Polishing Pond
- Collection Ponds
- Tailings Management Facility (TMF)
- Topographic Index Contours (10m interval)
- Waterbodies
- Creek / River

NOTES

1. (386.53) Groundwater elevations observed in August 2012, provided in metres above sea level (masl)
2. Surface water elevations observed on August 15th, 2013, provided in metres above sea level (masl)

REFERENCE

Open Pit Shell provided by IAMGOLD, May 2013
 *Figure1 Based on info provided by AMEC (May 2013)
 Base Data - MNR NRVIS, CANMAP v2008.4
 Produced by Golder Associates Ltd under licence from Ontario Ministry of Natural Resources, © Queens Printer 2013
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17



PROJECT		CÔTÉ GOLD PROJECT	
TITLE			
Groundwater Elevations in Tailings Management Facility (August 2012)			
Golder Associates Sudbury, Ontario	PROJECT No. 13-1192-0021	SCALE AS SHOWN	REV. 0
	DESIGN	RRD	July 2013
	CHECK	MO	July 2013
	REVIEW	JMP	July 2013
			FIGURE: 12



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As shown on hydrographs in Appendix M; Figure 3 and Figure 4, groundwater elevations observed in monitoring wells along the Bagsverd Creek portion of the Neville Lake system were similar to surface water levels and reflect the northward decline in lake levels observed in this flow system. Groundwater levels decreased by approximately 9 m from the north end of Bagsverd Lake (DH12-TMF-31) to the outflow of Bagsverd Creek to Neville Lake (DH12-TMF-24). The monitoring locations and groundwater elevations discussed herein are shown on Figure 12.

Groundwater levels rose quickly in response to recharge from snow melt and larger rainfall events. This was particularly evident during the spring freshet in late-April, 2013, when average daily air temperatures were steadily above 0°C. Groundwater levels at most locations remained fairly consistent or decreased steadily in response to lack of recharge between rainfall events during the spring, summer and fall, and either remained consistent or declined slightly during the winter months.

5.7.2 Depth to Groundwater

A summary of the maximum, minimum, average and range of depths to groundwater [provided in metres below ground surface (mbgs)] is provided in Table 7. The values provided in Tables 7 incorporate both manual depth to water measurements and data logger records (where available).

Table 7: Summary of Groundwater Depths

Project Component	Monitoring Well ID	Depth to Groundwater			
		Maximum (mbgs) ⁽¹⁾	Minimum (mbgs) ⁽¹⁾	Average (mbgs) ⁽¹⁾	Range (m) ⁽²⁾
Proposed Open Pit	BH12-1	1.44	0.26	0.94	1.18
	BH12-BULK 1	1.89	-0.24	0.95	2.13
	BH12-2A	2.43	1.08	1.97	1.35
	BH12-2B	2.17	0.52	1.58	1.65
	BH12-3A	1.69	0.59	1.17	1.10
	BH12-3B	1.86	0.91	1.38	0.95
	BH12-4	0.52	0.30	0.45	0.22
	BH12-6	2.67	1.18	1.92	1.49
	DH12-PO-01RA	0.52	-0.12	0.20	0.64
	DH12-PO-01RB	0.23	-0.10	0.06	0.33
	DH12-PO-05RA	0.63	0.00	0.38	0.63
	DH12-PO-05RB	0.89	-0.21	0.21	1.10
	DH12-PO-08RA	0.21	0.00	0.10	0.21
	DH12-PO-08RB	1.05	0.84	0.94	0.21
	DH12-PO-10	1.76	0.02	0.28	1.74
	DH12-PO-13	0.23	0.01	0.09	0.22
	DH12-PO-14B	-0.60	-0.80	-0.74	0.20
	DH12-PO-16A	0.16	0.07	0.12	0.09
DH12-PO-16B	1.01	0.81	0.91	0.20	



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Project Component	Monitoring Well ID	Depth to Groundwater			
		Maximum (mbgs) ⁽¹⁾	Minimum (mbgs) ⁽¹⁾	Average (mbgs) ⁽¹⁾	Range (m) ⁽²⁾
	DH12-PO-20A	0.67	0.53	0.60	0.14
	DH12-PO-20B	0.64	0.35	0.50	0.29
	DH12-PO-21A	0.17	-0.05	0.06	0.22
	DH12-PO-21B	0.15	-0.13	0.01	0.28
	DH12-PO-21C	0.18	-0.11	0.04	0.29
	DH12-PO-22	0.32	0.18	0.25	0.14
	DH13-PO-01	0.24	0.21	0.22	0.03
	DH13-PO-02	0.07	0.07	0.07	0.00
	DH13-PO-04	0.32	-0.06	0.13	0.38
	DH13-PO-05A	0.42	-0.06	0.19	0.48
	DH13-PO-05B	0.57	0.41	0.48	0.17
	DH13-PO-08	1.73	1.35	1.54	0.38
	DH13-PO-09A	-0.17	-0.25	-0.21	0.08
	DH13-PO-09B	0.50	0.43	0.47	0.07
	DH13-PO-16A	0.27	0.14	0.20	0.13
	DH13-PO-16B	0.26	0.22	0.24	0.04
	DH13-PO-18	0.78	0.47	0.58	0.31
	DH13-PO-19	0.12	0.03	0.07	0.09
	DH13-PO-20	0.23	0.19	0.21	0.04
	DH13-PO-22	0.72	-0.01	0.35	0.73
	DH13-PO-23	0.16	0.07	0.11	0.09
Proposed Mine Rock Area (MRA)	DH12-WD-01	0.72	0.08	0.45	0.64
	DH12-WD-05R	1.31	0.35	0.83	0.96
	DH12-WD-12A	0.13	-0.40	-0.07	0.53
	DH12-WD-12B	0.19	-0.32	0.01	0.51
	DH12-WD-14	1.49	0.67	1.25	0.82
	DH12-WD-17A	0.89	-0.10	0.49	0.99
	DH12-WD-17B	0.91	-0.10	0.44	1.01
	DH12-WD-19	0.21	-0.67	-0.29	0.88
	DH12-WD-23	-0.21	-1.07	-0.75	0.86
	DH12-WD-25A	0.76	0.20	0.33	0.56
	DH12-WD-25B	0.72	0.17	0.31	0.55
	DH12-WD-26	0.57	0.00	0.32	0.57
	DH12-WD-27A	0.52	0.08	0.19	0.44
	DH12-WD-27B	0.51	0.08	0.20	0.43



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Project Component	Monitoring Well ID	Depth to Groundwater			
		Maximum (mbgs) ⁽¹⁾	Minimum (mbgs) ⁽¹⁾	Average (mbgs) ⁽¹⁾	Range (m) ⁽²⁾
	DH13-WD-02A	0.32	0.31	0.31	0.01
	DH13-WD-02B	0.38	0.37	0.38	0.01
Proposed Tailings Management Facility (TMF)	DH12-TMF-05A	1.12	-0.38	0.23	1.50
	DH12-TMF-05B	1.30	-0.25	0.41	1.55
	DH12-TMF-11	-0.25	-0.66	-0.53	0.41
	DH12-TMF-12	0.67	0.05	0.21	0.62
	DH12-TMF-16	0.33	0.26	0.30	0.07
	DH12-TMF-20A	1.19	1.10	1.15	0.09
	DH12-TMF-20B	1.22	1.08	1.15	0.14
	DH12-TMF-23A	0.63	0.02	0.30	0.61
	DH12-TMF-23B	0.92	0.39	0.72	0.53
	DH12-TMF-24A	0.56	-0.39	0.15	0.95
	DH12-TMF-24B	0.85	-0.12	0.42	0.97
	DH12-TMF-25A	1.09	-0.25	0.75	1.34
	DH12-TMF-25B	0.97	-0.17	0.60	1.14
	DH12-TMF-26	0.07	-0.10	0.01	0.17
	DH12-TMF-27A	0.69	-0.12	0.19	0.81
	DH12-TMF-27B	0.71	-0.10	0.21	0.81
	DH12-TMF-28	0.88	0.55	0.68	0.33
	DH12-TMF-29	0.27	0.26	0.27	0.01
	DH12-TMF-30	6.13	3.13	5.27	3.00
	DH12-TMF-31A	1.47	0.06	0.78	1.41
DH12-TMF-31B	1.50	0.36	1.20	1.14	
DH12-TMF-32A	1.79	0.09	0.88	1.70	
DH12-TMF-32B	1.24	0.05	0.37	1.19	
DH12-TMF-33	2.12	0.68	1.33	1.44	

Notes:

(1) Groundwater depths are presented in metres below ground surface (mbgs)

(2) "Range (m)" represents the difference (in metres) between the maximum and minimum groundwater depths observed

As shown on the table above and on hydrographs in Appendix M; Tables 5 to 8, the depths to groundwater were generally less than 1 mbgs, occasionally exceeding 2 mbgs at areas of higher elevation and/or steeper topography (eg. BH12-2, BH12-6, DH12-TMF-30, DH12-TMF-33). At lower elevations near wetlands and surface water features, depths to groundwater were occasionally greater than 1 m above ground surface (mags) (groundwater discharge). Discharging groundwater conditions were most frequently observed at the base of steep slopes adjacent to low-lying wetlands or surface water features. At some locations (eg. DH12-TMF-05, DH12-TMF-24) discharging conditions only occurred during the spring freshet, whereas groundwater levels were consistently above ground surface at other locations (eg. DH12-WD-12 and DH12-WD-23).



5.7.3 Vertical Hydraulic Gradients

For the purpose of this discussion, vertical hydraulic gradients were assessed by the difference in groundwater elevations between the shallow and deep wells at nested monitoring locations. A summary of the maximum, minimum and average vertical gradient (head difference) is provided in Table 8. A positive head difference represents an upward hydraulic gradient (discharging condition) and a negative head difference represents a downward hydraulic gradient (recharging condition).

Table 8: Summary of Vertical Hydraulic Gradients

Project Component	Monitoring Well ID	Head Difference		
		Maximum (m) ⁽²⁾	Minimum (m) ⁽³⁾	Average (m) ⁽⁴⁾
Proposed Open Pit	BH12-2A	-0.22	-0.56	-0.39
	BH12-3A	0.32	0.04	0.21
	DH12-PO-01RA	0.02	-0.29	-0.14
	DH12-PO-05RA	0.27	-0.51	-0.17
	DH12-PO-08RA	0.06	0.06	0.06
	DH12-PO-16A	0.06	-0.05	0.00
	DH12-PO-20A	-0.03	-0.18	-0.11
	DH12-PO-21A	0.01	-0.06	-0.02
	DH13-PO-05A	0.66	0.08	0.32
	DH13-PO-09A	0.68	0.67	0.67
Proposed Mine Rock Area (MRA)	DH13-PO-16A	0.08	-0.01	0.04
	DH12-WD-12A	0.07	0.00	0.04
	DH12-WD-17A	0.37	-0.52	-0.04
	DH12-WD-25A	0.00	-0.04	-0.02
	DH12-WD-27A	0.02	-0.04	-0.01
Proposed Tailings Management Facility (TMF)	DH13-WD-02A	0.02	-0.05	-0.03
	DH12-TMF-05A	0.38	-1.65	-0.24
	DH12-TMF-20A	0.03	-0.02	0.00
	DH12-TMF-23A	0.56	0.29	0.43
	DH12-TMF-24A	0.29	0.04	0.20
	DH12-TMF-25A	0.08	-0.16	-0.11
	DH12-TMF-27A	0.02	0.02	0.02
	DH12-TMF-31A	0.55	-0.04	0.16
DH12-TMF-32A	0.14	-1.51	-0.49	

Notes:

Negative values indicate downward vertical gradients.

Positive values indicate upward vertical gradients.

n/a: Groundwater level data unavailable

(1) Groundwater elevations provided in meters above sea level (masl)

(2) "Maximum (m)" represents the greatest upward, or least downward, vertical gradient observed in metres



- (3) "Minimum (m)" represents the greatest downward, or least upward, vertical gradient observed in metres
(4) "Average (m)" represents the average vertical gradient in metres

Vertical gradients were variable throughout the site as groundwater levels were strongly influenced by local relief. Head differences between the deep and shallow wells at most nested monitoring locations were generally less than 0.5 m, with downward gradients (recharging conditions) typically occurring at areas of higher elevation and/or steeper topography and upward gradients (discharging conditions) typically occurring at the base of steep slopes adjacent to low-lying wetlands and surface water features.

Recharging conditions were observed consistently at monitoring locations BH12-2 and DH12-TMF-32, and occasionally at most other monitoring locations. As shown on Figure 3 and Figure 4, BH12-2 and DH12-TMF-32 are located at relatively high elevation and along steep slopes. The consistent downward hydraulic gradients observed at these locations are typical of higher elevation lands adjacent to low-lying surface water features and/or swampy areas where groundwater discharge is observed.

Consistent discharging conditions were observed at monitoring locations BH12-3, DH13-PO-05, DH13-PO-09 and DH12-TMF-23, and occasionally at a number of other locations. These monitoring well nests are generally located in low-lying areas adjacent to higher topography and near surface water features. The consistent upward hydraulic gradients observed at these locations are typical of lower elevation lands throughout the Project site where groundwater recharge occurring on the surrounding higher elevation lands leads to discharging conditions in the adjacent low-lying areas.

5.8 Groundwater Use

MOE records indicate there are two active PTTW within a 15 km radius of the Project site, both of which were issued to Trelawney (now IAMGOLD) for dewatering of the Bates Shaft at the Chester Mine. Table 9 provides a summary of details for the PTTW. PTTW locations are shown on Figure 13.



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Table 9: Summary of Active MOE PTTWs within 15 km of Project Site

Permit Number	Client Name	Issue Date	Expiry Date	Purpose	Source	Source ID	UTM Location			Maximum Limitations			
							Zone	Northing	Easting	Volume (L/d)	Volume (L/min)	Hours (hrs/d)	Days (d/y)
5103-88DHV4	Trelawney Mining and Exploration Inc.	8/19/2010	7/31/2015	Dewatering	Ground-water	Bates Shaft (Initial Dewatering)	17	5267300	432950	2725000	1892	24	45
5103-88DHV4	Trelawney Mining and Exploration Inc.	8/19/2010	7/31/2015	Dewatering	Ground-water	Bates Shaft (Maintenance Dewatering)	17	5267300	432950	817632	568	24	365



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MOE Water Well Records indicated that there are six groundwater supply wells located within a radius of approximately 15 km of the Site. Two of the wells, both drilled in 2010, are located on IAMGOLD property at the Chester Mine, approximately 3 km to the east of the proposed open pit. One well, drilled in 1974, is indicated as a domestic well. This well is located 5 km northeast of the Project site near Mesomikenda Lake and is the water well for the IAMGOLD camp. Three wells are indicated as public supply wells and are located between eight and 11 km southeast of the Site.

It should be noted that well locations stated on the Water Well Records may not reflect actual well locations due to several factors including a shift in the mapping coordinate system between the commonly used NAD27 and NAD83 datums. It is also noted that prior to 1988, there was no requirement to register shallow dug or owner constructed wells. As such, there may be shallow overburden wells in the area that are not identified in the Water Well Records.

A summary of the groundwater supply wells identified within a 15 km radius of the Project site is provided in Table 10. Groundwater supply well locations are shown on Figure 13.

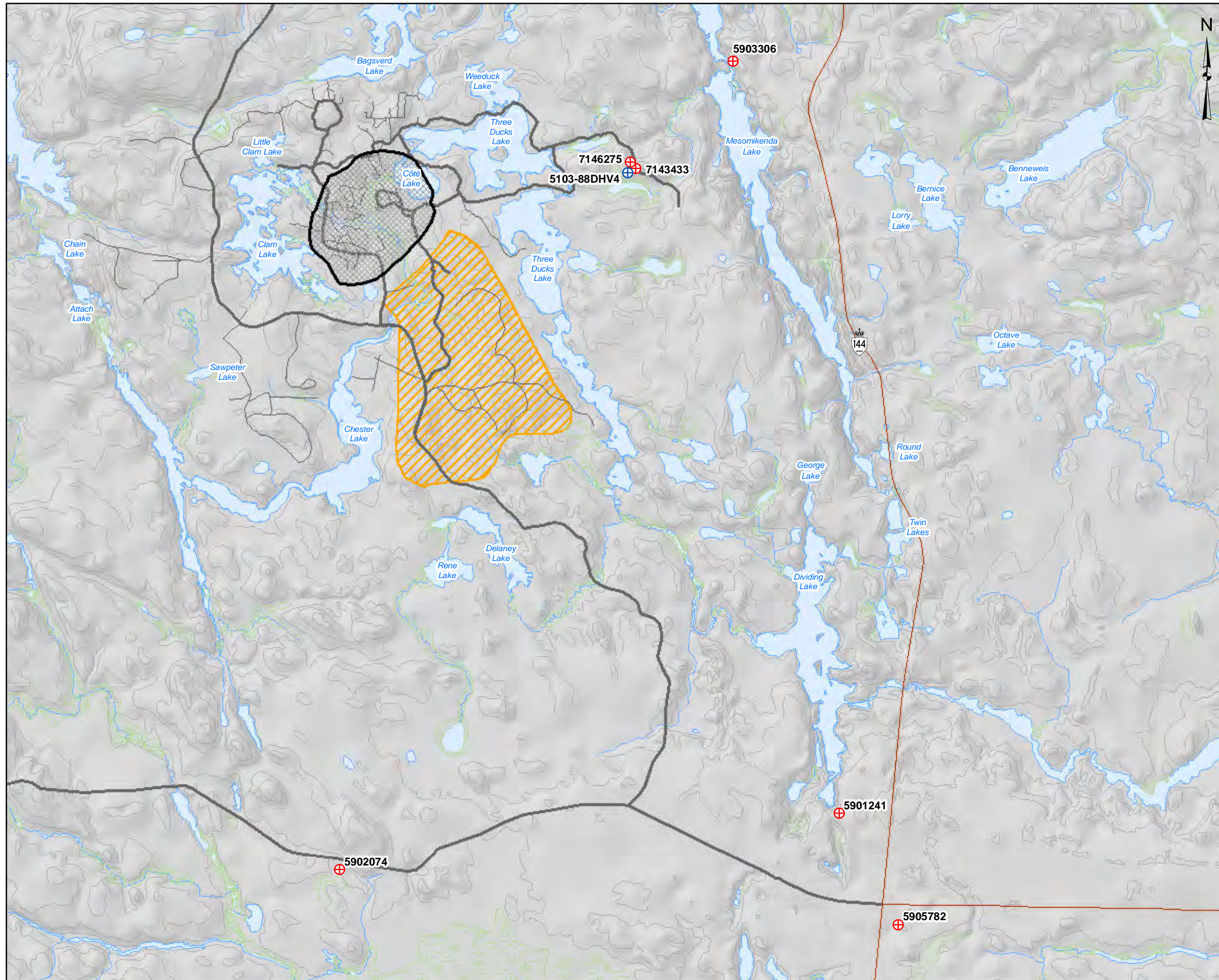


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Table 10: Summary of Ontario MOE Water Well Records within 15 km of Project Site

Well ID	Zone	Township	Easting (NAD 83)	Northing (NAD 83)	Location	Date Completed	Reported Stratigraphy	Final Status	Primary Use
5901241	17	Invergarry	435615.2	5259116	Approximately 10 km southeast of the proposed open pit	1/24/1968	0 m to 15.24 m coarse sand, 15.24 m to 21 m fine sand, 21 m to 22.25 m medium sand	Water Supply	Public
5902074	17	Invergarry	429265.1	5258401	Approximately 8 km south of the proposed open pit	4/29/1969	0 m to 3.96 m boulders, 3.96 m to 23.77 m medium sand, 23.77 m to 25 m gravel	Water Supply	Public
5903306	17	Chester	434265.3	5268676	Approximately 5 km northeast of the proposed open pit	11/18/1974	0 m to 9.1 m sand, 9.1 m to 10.1 m gravel, 10.1 m to 12.2 m grey rock	Water Supply	Domestic
5905782	17	Vrooman	436367	5257699	Approximately 11 km southeast of the proposed open pit	7/15/1988	0 m to 0.3 m black peat, 0.3 m to 7.3 m brown sand, 7.3 m to 117.7 m grey rock	Water Supply	Public
7143433	17	Chester	432996	5267321	Approximately 3 km east of the proposed open pit	3/31/2010	0 m to 0.6 m brown sand, 0.6 m to 130 m grey rock	Water Supply	Domestic
7146275	17	Timmins Town	432984	5267344	Approximately 3 km east of the proposed open pit	4/1/2010	0 m to 24.4 m grey sand and clay, 24.4 m to 26.8 m grey rock and sand, 26.8 m to 30.5 m grey rock and clay	Water Supply	Domestic

Path: Z:\Projects\2013\13-1192-0021\GIS\MXD\Reporting\Hydrogeology\Baseline\Figure13_MOE_well.mxd



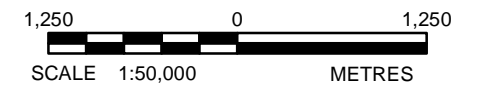
LEGEND



-  MOE Water Well Records
-  MOE Permits to Take Water
-  Open Pit
-  Mine Rock Area (MRA)
-  Major Road
-  Road
-  Trail
-  Contours
-  Rivers
-  Waterbodies
-  Wetlands



REFERENCE

Open Pit Shell provided by IAMGOLD, May 2013
 Base Data - MNR NRVIS, CANMAP v2008.4
 Produced by Golder Associates Ltd under licence from
 Ontario Ministry of Natural Resources, © Queens Printer 2012
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17



PROJECT		 CÔTÉ GOLD PROJECT		
TITLE		Ontario Ministry of the Environment Water Well Records and Permits to Take Water		
	PROJECT No. 13-1192-0021		SCALE AS SHOWN	REV. 0
	DESIGN	RRD	Dec. 2012	FIGURE: 13
	GIS	AL	Oct. 2013	
	CHECK	MO	Oct. 2013	
REVIEW	JMP	Oct. 2013		



6.0 SUMMARY OF BASELINE CONDITIONS

The following provides a summary of conclusions that are based on the baseline hydrogeological investigation program:

- Activities conducted during the 2012 to 2013 baseline hydrogeological investigation included:
 - site reconnaissance;
 - drilling of 150 geotechnical/hydrogeological boreholes into the overburden and shallow bedrock;
 - installation of groundwater monitoring wells (single and nested) at 62 locations;
 - drilling of six angled drillholes into the deep bedrock within the proposed open pit;
 - excavation of 260 test pits;
 - laboratory testing of overburden soil samples for particle size distribution;
 - in-situ hydraulic conductivity testing (slug tests and packer tests) of overburden and bedrock;
 - routine depth to groundwater measurements at approximately 50 monitoring well locations; and
 - installation and routine downloading of 20 data loggers to record water levels continuously.
- The site is located in two subwatersheds, the Mollie River watershed and the Mesomikenda Lake watershed. The Mollie River system generally flows southeast and east, discharging into Minisinakwa Lake near the town of Gogama and eventually into Mattagami River. The Mesomikenda Lake system flows generally northeastwards from the Project site, also discharging into Minisinakwa Lake and eventually into Mattagami River. Additionally, the Arctic/Atlantic watershed divide is located immediately south of the Project property, with the nearest boundary located southwest and more than 3.5 km from the proposed open pit location.
- The landscape is typical of glaciated terrain of the Canadian Shield, dominated by bedrock highs interspersed with many lakes, connecting streams and low-lying swamps and wetlands. Topographic highs are comprised of exposed bedrock or covered by thin topsoil and a veneer of glacial till. The intervening lowlands are typically swampy, mantled with organic deposits (often peat) that overlie glacial till and less frequently, glaciofluvial deposits at depth, often with minimal fines and a considerable cobble and boulder component.
- Overburden is relatively thin, generally less than 2 m thick to non-existent over bedrock highs. In low-lying areas, overburden typically consists of up to 9 m of peat overlying fine grained and fine granular mixtures of moraine deposits that in turn overlie coarse granular mixtures of moraine or glaciofluvial deposits overlying bedrock. The overburden in these areas is typically greater than four metres thick and often greater than 10 m thick. The thicker overburden deposits do not form continuous pathways for groundwater flow; rather these deposits are discontinuous and bounded by bedrock highs.
- Lake bottom sediments observed in Côté Lake, Clam Lake, Three Duck Lakes (Upper) and two unnamed lakes to the north and south of the proposed open pit ranged in thickness from 1.14 m to 16.76 m and were generally comprised of silty organics overlying mixtures fine grained and fine granular materials overlying coarse granular deposits.



- In the area of the proposed open pit, the bedrock is comprised of: Tonalite (medium to coarse grained intrusive that hosts the ore deposit); Diorite, Breccias, Diabase Dikes, Mafic Dikes, and Intermediate and Felsic Dikes.
- The hydraulic conductivity of overburden throughout the Project site is highly variable. The coarse granular materials are the most permeable; with a geometric mean hydraulic conductivity of approximately 5×10^{-5} m/s and a maximum of 2.5×10^{-3} m/s. The fine granular and fine grained materials displayed geomean values of approximately 5×10^{-6} m/s and 1×10^{-6} m/s respectively. The hydraulic conductivity of the coarse granular deposits displayed high values in the order of 2×10^{-3} m/s, which is typical of sand and gravel mixtures.
- The shallow bedrock (upper 10 m) is variably fractured with a geometric mean hydraulic conductivity of 1×10^{-7} m/s, with the fractured rock ranging up to a maximum of 3.4×10^{-4} m/s and unfractured rock with a low hydraulic conductivity of 1.0×10^{-11} m/s. Within the area of the proposed open pit, where drilling has been conducted to vertical depths of about 500 m, the frequency of fracturing generally decreases with depth as does the hydraulic conductivity. Test data indicate that bedrock structure and rock type exert little to moderate influence on the hydraulic conductivity.
- The seasonal range of groundwater levels at most monitoring locations was less than 1.5 m. The depth to groundwater was generally less than 1 mbgs, occasionally exceeding 2 mbgs at areas of higher elevation and/or steeper topography. At lower elevations near wetlands and surface water features, groundwater levels above ground are observed.
- Groundwater elevations observed between May 2012 and September 2013 ranged from over 397 masl to less than 370 masl; generally declining to the northeast and southeast, consistent with the decline in lake elevations across the site. Locally, groundwater flow is controlled by the local topography with flow from recharge areas at higher elevation to discharge at nearby surface water features and wetlands. Regionally, groundwater flow is inferred to be generally from the south-southwest to the north-northeast.
- MOE records indicated there are two active PTTW within a 15 km radius of the Project site, both of which were issued to Trelawney (now IAMGOLD) for dewatering of the Bates Shaft at the Chester Mine. MOE records also indicated that six groundwater supply wells are located within a radius of approximately 15 km of the Project site.

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Report Signature Page

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APPENDIX A

Site Investigation Methods



The Appendix provides additional information on the following components of the baseline hydrogeological investigations carried out by Golder Associates Ltd. (Golder) and Knight Piésold at the IAMGOLD Corporation (IAMGOLD) Côté Gold Project (the Project) in 2012 and 2013:

- Numbering conventions applied to boreholes, monitoring wells and test pits.
- Elevation surveying of completed boreholes, monitoring wells and test pits.

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1.0 NUMBERING CONVENTIONS FOR BOREHOLES, MONITORING WELLS AND TEST PITS

The investigations completed by Knight Piésold in 2012 and 2013 were identified using the naming convention “DH1#-YY-##” or “TP1#-YY-##”. The “DH” prefix designates the test location as a borehole and the “TP” prefix designates the test location as a test pit. The “12” or “13” following the “DH” or “TP” prefix identifies the year (2012 or 2013) in which the test location was completed. The “YY” abbreviation identifies the project infrastructure component the boreholes and test pits were intended to investigate. The following “YY” abbreviations were used to identify the various project components in the naming convention applied to the geotechnical/hydrogeological boreholes and test pits completed by Knight Piésold:

- The abbreviation “PO” identifies test locations completed for the purpose of investigating the open pit (e.g. DH12-PO-21, TP12-PO-01).



- The abbreviation “WD” identifies test locations completed for the purpose of investigating the MRA and areas previously considered for this project component (e.g. DH13-WD-04, TP13-WD-01).
- The abbreviation “TMF” identifies test locations completed for the purpose of investigating the TMF and areas previously considered for this project component (e.g. DH12-TMF-01, TP12-TMF-01).
- The abbreviation “FD” identifies test locations completed for the purpose of investigating the watercourse realignments and areas previously considered for this project component (e.g. DH13-FD-01, TP13-FD-01).
- The abbreviation “PS” identifies test locations completed for the purpose of investigating the processing plant and areas previously considered for this project component (e.g. TP12-PS-01).
- The abbreviation “RCP” identifies test locations completed for the purpose of investigating areas previously considered for collection ponds (e.g. DH13-RCP-01, TP13-RCP-01).
- The abbreviation “BP” identifies test locations completed for the purpose of investigating potential aggregate borrow sites (e.g. TP12-BP-01).

The final number following the “DH1#” or “TP1#” prefix and the “YY” abbreviation is the specific number assigned to that test location. For example, borehole number “DH12-PO-01” represents borehole number “01” completed within the open pit area in 2012, and test pit number “TP12-TMF-17” represents test pit number “17” completed within the TMF area in 2012.

In some cases, boreholes were re-located from their originally proposed locations to alternate locations where ground conditions were more favorable for drilling. These boreholes were denoted with an “R” suffix following the borehole location number (e.g. DH12-PO-05R). In these cases, the originally proposed borehole number (e.g. DH12-PO-05) was eliminated and replaced with the revised borehole number (e.g. DH12-PO-05R).

The geotechnical/hydrogeological boreholes completed by Golder in 2012 were identified using the naming convention “BH12-#”, where the “BH12” prefix identifies that the boreholes were completed in the year 2012 and the “#” number identifies the borehole location number (e.g. BH12-1).

At some borehole locations, a single monitoring well was installed. At others, multiple wells were installed in adjacent boreholes with screened intervals set in separate stratigraphic units (referred to as nested wells). For single monitoring wells, the wells were identified using the same naming convention as the corresponding borehole. For example, the single monitoring well installed in borehole “DH12-PO-10” is also referred to by the number “DH12-PO-10”. Nested monitoring wells were also identified by the same naming convention applied to the corresponding borehole, however the deeper wells were denoted with an “A” suffix and the shallower wells were denoted with a “B” suffix. In cases where three wells were installed, the shallowest well was denoted with a “C” suffix. For example, the nested monitoring wells installed at borehole location “DH12-PO-21” were named “DH12-PO-21A” for the deepest well, “DH12-PO-21B” for the intermediate well, and “DH12-PO-21C” for the shallowest well.



Test pits completed by Golder in 2012 were identified using the naming convention “TP##”, where the “##” number identifies the test pit location number (e.g. TP16).

The angled geomechanical/hydrogeological drillholes (GT) completed by Knight Piésold in 2012 were identified using the naming convention “GT-12-##”, where “GT-12” identifies that these were geomechanical drillholes completed in the year 2012 and the “##” number identifies the drillhole location number (e.g. GT-12-01).

2.0 ELEVATION SURVEYING OF BOREHOLES, MONITORING WELLS AND TEST PITS

Upon completion of each site investigation, IAMGOLD retained a professional surveyor (L. Labelle Surveys of Timmins, Ontario) to survey the Universal Transverse Mercator (UTM) co-ordinates, ground surface elevation, and top of well pipe elevation (if applicable) for completed boreholes, monitoring wells and test pits.

3.0 HYDROGEOLOGICAL INVESTIGATION OF PROPOSED BULK SAMPLING SITES IN OPEN PIT

Golder was retained by Trelawney Mining and Exploration Inc. (Trelawney; now IAMGOLD) to conduct a hydrogeological review and prepare a certified groundwater monitoring plan in support of a Closure Plan for two proposed bulk sampling locations within the open pit. In order to assess the baseline hydrogeological conditions at the two proposed bulk sampling locations, Golder carried out a site investigation comprised of borehole drilling, monitoring well installations, hydraulic conductivity testing, groundwater level monitoring and water quality sampling from April 25 to April 30, 2012, at the two proposed bulk sampling locations.

Borehole drilling and monitoring well installations were carried out by Marathon Drilling Co. Ltd (Marathon) under the supervision of a Golder technician. Drilling and monitoring well installations were conducted by a MOE licensed well technician/contractor in accordance with the *Water Resources Act* Ontario Regulation (O.Reg.) 903. Borehole drilling was conducted at six locations and a total of eight monitoring wells (single and nested) were installed at these six locations. The locations of boreholes and monitoring wells completed during this investigation (BH12-1, BH12-2, BH12-3, BH12-4, BH12-6 and BH12-BULK 1) are shown on Figure 3 in the Baseline Hydrogeology Report.

Boreholes were advanced using a track-mounted CME 850 drill rig equipped with standard 200 mm diameter hollow-stem augers and HQ diameter rock coring equipment. Boreholes were advanced by auger drilling and sampling with in-situ Standard Penetration Tests (SPTs) at continuous depth intervals of approximately 0.75 m to refusal followed by bedrock coring to target depths. SPTs and sampling were carried out using a hydraulic hammer and conventional 35 mm internal diameter split spoon sampling equipment. Split spoon samples were collected, photographed, logged and placed in plastic bags (double bagged), sealed and labeled during drilling. At locations where multiple



boreholes were advanced for the installation of nested monitoring wells, SPT sampling and logging was typically only completed during drilling of the first (deepest) borehole for efficiency. Bedrock coring was completed to confirm bedrock (approximately 3 m into rock) or to greater depths based on well installation requirements. Bedrock coring was completed using HQ diameter wire line rock coring equipment with run lengths of 1.5 m. Core samples were logged during drilling then placed sequentially into labelled core boxes and secured for delivery to IAMGOLD personnel. At most locations, a monitoring well was installed within the upper fractured bedrock and an offset monitoring well was completed in the overburden soils if a sufficient thickness of saturated overburden was present.

Monitoring wells were constructed using 52.5 mm ID Schedule 40 polyvinyl chloride (PVC) screen and risers installed in 1.52 m sections. Each well typically had a screened interval of 1.52 m or 3.05 m in length. Clean silica sand was used to form a filter pack from the well bottoms to on average 0.5 m above the top of screen. Coated bentonite pellets (Pel-Plug) or bentonite chips (Holeplug) were used to form seals above the filter packs around the risers. PVC risers were cut leaving approximately 0.9 m of stickup above the ground surface, vented and sealed with a J-plug or PVC slip cap. Following installation, the wells were completed with lockable above ground protective casings and developed using dedicated polyethylene tubing and inertial foot valves.

Following the borehole drilling and monitoring well installations, well dedicated inertial sampling equipment (polyethylene tubing and foot valves) were installed in each monitoring well and the screened intervals were developed by vigorous purging to improve the hydraulic connection between the well intake screen and the aquifer by removing sediment and residual materials from drilling and well installation activities.

After the wells were developed, hydraulic conductivity testing (slug tests) were completed in each monitoring well to estimate the hydraulic conductivity of the overburden and/or shallow bedrock at both of the proposed bulk sampling locations.

4.0 2012 GROUNDWATER SEEPAGE INVESTIGATION

Golder was retained by IAMGOLD to carry out a series of test pit excavations in the vicinity of the open pit in December 2012, as outlined in our work plan entitled *Proposed Work Plan, Additional Work to Support Open Pit Groundwater Seepage Investigation – Phase I, Côté Gold Project, IAMGOLD Corporation*, dated December 5, 2012. The primary objective for this investigation was to establish the presence of bedrock in areas of higher elevation in the vicinity of the open pit and to assess whether low-lying areas between topographic highs contain granular overburden deposits that could provide pathways for groundwater flow from nearby lakes to the open pit. The scope of work for Phase I of the investigation was carried out as described in our memo entitled *Recommendations for Additional Work to Support Open Pit Groundwater Seepage Investigation*, dated November 29, 2012.



4.1 Site Investigations

4.1.1 Preliminary Reconnaissance of Test Locations

Prior to initiating the test pit excavation program, a Golder hydrogeologist (accompanied by a representative from IAMGOLD) inspected the proposed test locations to assess accessibility and to re-locate proposed test pits to more accessible locations if necessary. This on-site reconnaissance was carried out on December 12 and December 13, 2012.

In some cases, proposed test pit locations were relocated to areas where the overburden thickness in low-lying areas was likely the greatest or to avoid saturated/swampy areas where excavating test pits would not likely have been possible due to water inflow and sidewall sloughing.

During the site inspections, an attempt was made to establish the presence of bedrock at or near surface for most of the proposed test locations listed in Table 1, however, a number of the proposed test locations were not inspected due to inaccessibility and/or schedule limitations.

4.1.2 Test Pits to Establish Depth to Bedrock

The presence of bedrock at or near surface in areas of higher elevation lands in close proximity to the perimeter of the open pit was confirmed at a total of 34 locations from December 12 to 16, 2012. Table 1 summarizes these test locations and also lists test locations where the presence of bedrock could not be confirmed due to difficult access and/or schedule limitations. Test pit locations are shown on Figure 5 and Figure 6 in the Hydrogeology Baseline Report.

Table 1: Summary of Test Pits to Establish Top of Rock

Test Location	Completion Date	UTM Location (NAD 83 Zone 17T)		Depth to Bedrock (mbgs)	Comments
		Easting	Northing		
TP18	December 13, 2012	430194	5265787	0.0	Outcropping bedrock observed visually/manually at this location.
TP19	December 13, 2012	430272	5265840	0.0	Outcropping bedrock observed visually/manually at this location.
TP20	December 13, 2012	430458	5266129	0.1	Bedrock observed visually/manually beneath thin till veneer.
TP23	n/a ⁽¹⁾	430948	5266336	n/a ⁽¹⁾	Unable to evaluate this location due to difficult access and schedule limitations.
TP24	n/a ⁽¹⁾	430987	5266021	n/a ⁽¹⁾	Unable to evaluate this location due to difficult access and schedule limitations.
TP25	n/a ⁽¹⁾	431005	5265875	n/a ⁽¹⁾	Unable to evaluate this location due to difficult access and schedule limitations.
TP26	n/a ⁽¹⁾	430971	5265793	n/a ⁽¹⁾	Unable to evaluate this location due to difficult access and schedule limitations.
TP27	December 13, 2012	430693	5265515	0.0	Outcropping bedrock observed visually/manually at this location.



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Test Location	Completion Date	UTM Location (NAD 83 Zone 17T)		Depth to Bedrock (mbgs)	Comments
		Easting	Northing		
TP28	December 13, 2012	430665	5265417	0.0	Outcropping bedrock observed visually/manually at this location.
TP29	December 13, 2012	430508	5265353	0.0	Outcropping bedrock observed visually/manually at this location.
TP30	n/a ⁽¹⁾	430237	5265369	n/a ⁽¹⁾	Unable to confirm depth to bedrock visually/manually. No test pit excavated due to difficult access and schedule limitations.
TP31	n/a ⁽¹⁾	430107	5265369	n/a ⁽¹⁾	Unable to confirm depth to bedrock visually/manually. No test pit excavated due to schedule limitations.
TP32	December 12, 2012	429997	5265366	0.0	Outcropping bedrock observed visually/manually at this location.
TP33	December 12, 2012	429839	5265387	0.0	Outcropping bedrock observed visually/manually at this location.
TP34	n/a ⁽¹⁾	430503	5266598	n/a ⁽¹⁾	Unable to evaluate this location due to difficult access and schedule limitations.
TP36	December 12, 2012	430845	5266778	0.0	Outcropping bedrock observed visually/manually at this location.
TP37	December 12, 2012	430761	5267057	0.0	Outcropping bedrock observed visually/manually at this location.
TP38	December 12, 2012	430467	5267367	0.0	Outcropping bedrock observed visually/manually at this location.
TP39	December 12, 2012	430766	5267522	0.0	Outcropping bedrock observed visually/manually at this location.
TP40	December 12, 2012	430697	5267857	0.0	Outcropping bedrock observed visually/manually at this location.
TP41	December 12, 2012	430506	5267501	0.0	Outcropping bedrock observed visually/manually at this location.
TP42	December 12, 2012	430291	5267650	0.0	Outcropping bedrock observed visually/manually at this location.
TP43	December 12, 2012	430177	5267695	0.0	Outcropping bedrock observed visually/manually at this location.
TP44	December 12, 2012	430177	5267695	0.0	Outcropping bedrock observed visually/manually at this location.
TP45	December 12, 2012	429904	5267748	n/a ⁽¹⁾	Unable to confirm depth to bedrock visually/manually. No test pit excavated due to difficult access and schedule limitations.
TP46	n/a ⁽¹⁾	429733	5267757	n/a ⁽¹⁾	Unable to evaluate this location due to difficult access and schedule limitations.
TP47	n/a ⁽¹⁾	429420	5267654	n/a ⁽¹⁾	Unable to evaluate this location due to difficult access and schedule limitations.
TP48	December 12, 2012	429135	5267572	0.0	Outcropping bedrock observed visually/manually at this location.



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Test Location	Completion Date	UTM Location (NAD 83 Zone 17T)		Depth to Bedrock (mbgs)	Comments
		Easting	Northing		
TP49	December 12, 2012	428921	5267506	n/a ⁽¹⁾	Swamp surrounded by outcropping bedrock. Unable to confirm depth to bedrock in swamp visually/manually. No test pit excavated due to difficult access and schedule limitations.
TP50	n/a ⁽¹⁾	428915	5267020	n/a ⁽¹⁾	Unable to confirm depth to bedrock visually/manually. No test pit excavated due to difficult access and schedule limitations.
TP51	n/a ⁽¹⁾	428818	5266945	n/a ⁽¹⁾	Unable to confirm depth to bedrock visually/manually. No test pit excavated due to difficult access and schedule limitations.
TP52	n/a ⁽¹⁾	428656	5266778	n/a ⁽¹⁾	Unable to confirm depth to bedrock visually/manually. No test pit excavated due to difficult access and schedule limitations.
TP53	December 13, 2012	428704	5266339	0.0	Outcropping bedrock observed visually/manually at this location.
TP54	December 13, 2012	428544	5265947	0.0	Outcropping bedrock observed visually/manually at this location.
TP55	December 13, 2012	428866	5266155	0.0	Outcropping bedrock observed visually/manually at this location.
TP56	December 16, 2012	428993	5265998	0.1	Observed bedrock underlying mossy cover at this location.
TP57	December 13, 2012	428857	5265972	0.0	Outcropping bedrock observed visually/manually at this location.
TP58	December 13, 2012	428724	5265765	0.0	Outcropping bedrock observed visually/manually at this location.
TP61	December 13, 2012	428843	5265412	0.0	Outcropping bedrock observed visually/manually at this location.
TP62	December 13, 2012	428654	5266477	0.0	Outcropping bedrock observed visually/manually at this location.
TP63	December 12, 2012	430926	5266543	0.0	Outcropping bedrock observed visually/manually at this location.
TP64	n/a ⁽¹⁾	431001	5265949	n/a ⁽¹⁾	Unable to evaluate this location due to difficult access and schedule limitations.
TP65	n/a ⁽¹⁾	430760	5265644	n/a ⁽¹⁾	Unable to evaluate this location due to difficult access and schedule limitations.
TP86	December 13, 2012	430361	5265874	0.05	Observed bedrock underlying mossy cover at this location.
TP87	December 13, 2012	430398	5265936	0.0	Outcropping bedrock observed visually/manually at this location.
TP87	December 13, 2012	430398	5265936	0.0	Outcropping bedrock observed visually/manually at this location.
TP91	December 13, 2012	428684	5265425	0.0	Outcropping bedrock observed visually/manually at this location.



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Test Location	Completion Date	UTM Location (NAD 83 Zone 17T)		Depth to Bedrock (mbgs)	Comments
		Easting	Northing		
TP94	December 16, 2012	429026	5265973	0.0	Outcropping bedrock observed visually/manually at this location.
TP97	December 13, 2012	428797	5266378	n/a ⁽¹⁾	Unable to confirm depth to bedrock visually/manually. No test pit excavated due to difficult access and schedule limitations.
TP100	December 12, 2012	429170	5267427	0.0	Outcropping bedrock observed visually/manually at this location.

Note:
n/a⁽¹⁾: Unable to confirm depth to bedrock visually/manually. Test pit was not excavated due to difficult access and/or schedule limitations.
mbgs – metres below ground surface

The presence of bedrock was confirmed at most of the locations listed in Table 1 by visual observation of outcropping bedrock or by manual digging to remove snow, topsoil and shallow overburden to expose the underlying bedrock. There were a number of proposed test locations that were not evaluated due to difficult access and/or schedule limitations. Many of these locations were subsequently tested by Knight Piésold during their 2013 Winter Site Investigation.

During site reconnaissance, outcropping bedrock was observed at 25 additional locations in the vicinity of the open pit perimeter. The locations of these bedrock outcrops are listed on Table 2.

Table 2: Summary of Additional Bedrock Observations

Observation Point	Completion Date	UTM Location (NAD 83 Zone 17T)		Depth to Bedrock (mbgs)	Comments
		Easting	Northing		
3	December 12, 2012	430126	5267565	0.0	Outcropping bedrock observed at this location.
9	December 12, 2012	430792	5267223	1.0	Bedrock observed below approximately 1 m of sandy till at this location.
10	December 12, 2012	430018	5267755	0.0	Outcropping bedrock observed at this location.
11	December 12, 2012	430401	5267909	0.0	Outcropping bedrock observed at this location.
12	December 12, 2012	429691	5267626	0.0	Outcropping bedrock observed at this location.
14	December 12, 2012	429411	5267471	0.0	Outcropping bedrock observed on both sides of narrow chute at this location.
15	December 12, 2012	429051	5267385	0.0	Outcropping bedrock observed at this location.
16	December 12, 2012	428847	5267346	0.0	Outcropping bedrock observed on both sides of narrow chute at this location.
18	December 12, 2012	429163	5267503	0.0	Outcropping bedrock observed at this location.



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Observation Point	Completion Date	UTM Location (NAD 83 Zone 17T)		Depth to Bedrock (mbgs)	Comments
		Easting	Northing		
19	December 12, 2012	429176	5267343	0.0	Outcropping bedrock observed at this location.
20	December 12, 2012	428988	5267386	0.0	Outcropping bedrock observed at this location.
21	December 12, 2012	428585	5265474	0.0	Outcropping bedrock observed at this location.
22	December 12, 2012	428740	5265491	0.0	Outcropping bedrock observed at this location.
23	December 12, 2012	428904	5265470	0.0	Outcropping bedrock observed at this location.
24	December 12, 2012	429070	5265443	0.0	Outcropping bedrock observed at this location.
25	December 12, 2012	429205	5265405	0.0	Outcropping bedrock observed at this location.
26	December 12, 2012	429514	5265311	0.0	Outcropping bedrock observed at this location.
27	December 13, 2012	430465	5266019	0.25	Bedrock observed below approximately 0.25 m of sandy topsoil at this location.
28	December 13, 2012	430421	5266037	0.0	Outcropping bedrock observed at this location.
29	December 13, 2012	428949	5266310	0.5	Bedrock observed below approximately 0.5 m of sandy till at this location.
36	December 13, 2012	429064	5265448	0.0	Outcropping bedrock observed at this location.
50	December 12, 2012	430310	5265862	0.0	Outcropping bedrock observed at this location.
51	December 12, 2012	429301	5265691	0.0	Outcropping bedrock observed at this location.
52	December 12, 2012	429345	5265653	0.0	Outcropping bedrock observed at this location.
53	December 12, 2012	429206	5265761	0.0	Outcropping bedrock observed at this location.

Note:
mbgs – metres below ground surface

4.1.3 Test Pits to Establish Subsurface Soil Conditions

A total of 24 test pits were excavated to establish depth to bedrock and subsurface soil stratigraphy in the vicinity of the open pit perimeter using a CAT 320L excavator. The soil stratigraphy encountered in each excavated profile was logged and representative samples of select stratigraphic units were collected for laboratory testing. Notes pertinent to each test pit, such as groundwater conditions (inflow and levels), pit wall stability, refusal (i.e. bedrock or boulders) and reason for stoppage were noted on the test pit logs. The test pits were photographed then backfilled and identified with labelled



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wooden stakes upon completion. The location (UTM) of each test pit was recorded using a handheld global positioning system (GPS) with an average accuracy of about 10 m.

Completed test pit locations are summarized on Table 3 and shown on Figure 5 and Figure 6 in the Hydrogeology Baseline Report. Record of Test Pit logs are provided in Appendix F in the Hydrogeology Baseline Report.

Table 3: Summary of Test Pits to Investigate Subsurface Soil Conditions

Test Location	Completion Date	UTM Location (NAD 83 Zone 17T)		Depth to Bedrock (mbgs)	Comments
		Easting	Northing		
TP1	n/a ⁽¹⁾⁽²⁾	430278	5268157	n/a ⁽¹⁾⁽²⁾	No test pit excavated due to difficult access and depth to bedrock was inferred to exceed limitations of excavator.
TP2	December 12, 2012	430044	5267697	4.0	Water infilling from sidewalls and up from pit floor. Heavily slumping below 1.0 mbgs
TP3	December 12, 2012	430126	5267565	0.0	No test pit excavated. Outcropping bedrock observed visually/manually at this location.
TP4	December 12, 2012	430392	5267375	2.5	Test pit was relocated into low-lying area near existing mine shaft. Water infilling from sidewalls below 1.25 mbgs
TP5	n/a ⁽²⁾⁽³⁾	428763	5267058	n/a ⁽²⁾⁽³⁾	No test pit excavated because sidewall slumping due to wet ground conditions was likely to occur and depth to bedrock was inferred to exceed limitations of excavator.
TP6	n/a ⁽²⁾⁽⁴⁾	428957	5267234	n/a ⁽²⁾⁽⁴⁾	No test pit excavated due to schedule limitations and depth to bedrock was inferred to exceed limitations of excavator.
TP7	n/a ⁽⁴⁾	428845	5267209	n/a ⁽⁴⁾	No test pit excavated due to difficult access and schedule limitations.
TP8	December 12, 2012	430695	5266970	4.5	Test pit excavated at north edge of swamp because conditions too wet in the middle of the swamp. Bedrock or large boulder at 4.5 mbgs. Wet below 1.5 mbgs
TP9	December 13, 2012	430280	5266382	n/a ⁽⁶⁾	Unable to establish depth to bedrock due to rapid water inflow and sidewall slumping. Further digging impossible
TP10	n/a ⁽⁴⁾	431057	5266062	n/a ⁽⁴⁾	No test pit excavated due to difficult access and schedule limitations.
TP11	n/a ⁽⁴⁾	431046	5266247	n/a ⁽⁴⁾	No test pit excavated due to difficult access and schedule limitations.
TP12	n/a ⁽⁴⁾	430914	5265830	n/a ⁽⁴⁾	No test pit excavated due to difficult access and schedule limitations.
TP13	n/a ⁽²⁾	430763	5265426	n/a ⁽²⁾	No test pit excavated because depth to bedrock was inferred to exceed limitations



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Test Location	Completion Date	UTM Location (NAD 83 Zone 17T)		Depth to Bedrock (mbgs)	Comments
		Easting	Northing		
					of excavator.
TP14	n/a ⁽⁵⁾	429942	5265359	n/a ⁽⁵⁾	No test pit excavated to avoid causing unnecessary silt loading in Mollie River.
TP15	December 15, 2012	429686	5265561	n/a ⁽⁶⁾	Wet sidewalls below 4.3 mbgs. No standing water at bottom of excavation.
TP16	December 15, 2012	429843	5265712	4.0	Wet sidewalls below 3.0 mbgs. Standing water at bottom of excavation.
TP17	December 15, 2012	429814	5265947	3.0	Wet sidewalls below 2.8 mbgs.
TP21	December 13, 2012	430333	5266317	0.3	No groundwater observed in this test pit.
TP22	December 13, 2012	430229	5266495	0.3 - 0.5	No groundwater observed in this test pit.
TP35	December 12, 2012	430487	5266866	n/a ⁽⁶⁾	Depth to bedrock exceeded maximum reach of excavator. Groundwater inflow from sidewalls at 3.5 mbgs.
TP59	December 14, 2012	429542	5265347	0.3	No groundwater observed in this test pit.
TP60	December 15, 2012	429204	5265410	0.5	No groundwater observed in this test pit.
TP83	December 12, 2012	430739	5266987	1.6	No groundwater observed in this test pit.
TP88	December 13, 2012	430362	5265924	n/a ⁽⁶⁾	Unable to advance test pit further due to heavy sidewall slumping. Rapid water inflow from surface and sidewalls.
TP90	December 15, 2012	428981	5265473	4.2	Wet sidewalls. Probable bedrock at 4.2 m, but excavator was at maximum reach so could not be confirmed.
TP93	December 15, 2012	429467	5265659	2.2	Groundwater inflow from sidewalls at 2.1 mbgs.
TP101	December 13, 2012	430463	5266865	4.3	Water inflow from sidewalls below 3.5 mbgs.
TP102	December 13, 2012	430411	5265897	0.6	No groundwater observed in this test pit.
TP103	December 13, 2012	430369	5265879	3.5	No groundwater observed in this test pit.
TP104	December 14, 2012	429680	5265340	2.4	No groundwater observed in this test pit.
TP105	December 14, 2012	429281	5265764	0.4	Water inflow from surface.
TP106	December 16, 2012	429301	5265753	1.3	Wet sidewalls below 1.1 mbgs.
TP107	December 15, 2012	429328	5265731	1.9	No groundwater observed in this test pit.
TP109	December 16, 2012	429009	5265988	1.1	Wet sidewalls. Approximately 0.1 m of groundwater at bottom of pit.
TP110	December 15, 2012	429281	5265766	1.6	No groundwater observed in this test pit.

Notes:
n/a⁽¹⁾: Test pit was not excavated due to difficult access and/or schedule limitations
n/a⁽²⁾: Test pit was not excavated because depth to bedrock was inferred to exceed limitations of excavator
n/a⁽³⁾: Test pit was not excavated due to saturated ground conditions
n/a⁽⁴⁾: Test pit was not excavated due to difficult access and/or schedule limitations
n/a⁽⁵⁾: Test pit was not excavated to avoid causing unnecessary silt loading in Mollie River
n/a⁽⁶⁾: Unable to confirm depth to bedrock at this location
mbgs – metres below ground surface



4.1.4 Laboratory Testing

During test pitting, representative samples of select overburden materials were collected in sealed plastic bags for potential laboratory index testing. A total of 16 soil samples were collected and 13 were submitted to the Golder Sudbury laboratory for Natural Moisture Content (ASTM D2216) and particle size analysis using sieve and hydrometer (ASTM D422). A summary of the soil samples collected is provided on Table 4. Laboratory test results were provided in Attachment C of the draft Golder memorandum on *Phase I – Additional Work to Support Open Pit Groundwater Seepage Investigation Preliminary Reconnaissance and Test Pit Results Côté Gold Project, IAMGOLD Corporation (Project No. 12-1192-0010)*, dated April 19, 2013.

Table 4: Summary of Samples Collected

Test Pit ID	UTM Location (NAD 83 Zone 17T)		Sample ID	Sample Depth (mbgs) ¹	Lab Testing	Material Description
	Easting	Northing				
TP-2	430043	5267698	TP-2-1	2.00	Yes	(SW) SAND, fine to medium-coarse grained, trace silt, grey and light brown, mottled, oxidized, wet, becoming saturated (free water) below 2.0 mbgs.
			TP-2-2	4.00	Yes	(SW) SAND, fine to medium-coarse grained, trace silt, grey and light brown, mottled, oxidized, wet, becoming saturated (free water) below 2.0 mbgs.
TP-4	430391	5267376	TP-4-1	2.2 - 2.5	Yes	(SP) SAND, fine to medium-grained, silty, some gravel, cobbles and boulders, non-cohesive, wet (TILL).
TP-8	430694	5266971	TP-8-1	2.00	Yes	(ML) SILT, some fine sand, trace gravel, grey and light brown beds/layers, oxidized layers, non-cohesive, moist.
			TP-8-2	4.00	Yes	(SP) SAND, fine-grained, some gravel, trace silt, grey-blue, cobbles and boulders, non-cohesive, moist to wet.
TP-15	429686	5265561	TP-15-1	4.50	No	(SP) SAND, fine to medium-grained, some silt, grey, thinly bedded, moist.
TP-16	429843	5265713	TP-16-1	2.00	Yes	(SP) SAND, some silt, some gravel, grey-brown, cobbles and boulders (5% of weight), moist, (TILL).
			TP-16-2	3.5 - 4.0	Yes	(SP) Gravelly SAND, fine to coarse-grained, poorly sorted, grey-brown, lenses/layers of different grain sizes, wet.
TP-17	429814	5265948	TP-17-1	2.00	Yes	(SP) Gravelly SAND, fine to coarse-grained, trace silt, grey and brown, oxidized, layered/lensed, cobbles and boulders, moist, becoming wet near bottom of pit (~2.8 mbgs), (TILL).
			TP-17-2	3.00	No	(SP) Gravelly SAND, fine to coarse-grained, trace silt, grey and brown, oxidized, layered/lensed, cobbles and boulders, moist, becoming wet near bottom of pit (~2.8 mbgs), (TILL).



Test Pit ID	UTM Location (NAD 83 Zone 17T)		Sample ID	Sample Depth (mbgs) ¹	Lab Testing	Material Description
	Easting	Northing				
TP-35	430487	5266866	TP-35-1	2.00	Yes	(SP) SAND, fine to medium-grained, some silt, trace gravel, grey, cobbles and boulders (15% of weight), non-cohesive, moist, becoming wet at approximately 3.5 mbgs (free water) (TILL).
TP-88	430368	5265925	TP-88-1	2.00	Yes	(SP) SAND, fine to medium-grained, grey and brown, thinly and medium-bedded, wet.
TP-104	429680	5265341	TP-104-1	2.00	Yes	(SP) SAND, fine to coarse-grained, some silt, some gravel, brown, oxidized, cobbles and boulders (20% weight), moist, (TILL).
TP-105	429396	5265386	TP-105-1	0.25	No	(ML) SILT, trace sand, brown, cobbles and boulders (10% weight), cohesive (~5 mm thread), w~PL, wet.
TP-106	429301	5265754	TP-106-1	1.00	Yes	(SP) Silty SAND, gravelly, some silt, grey-brown, oxidized, cobbles and boulders, non-cohesive, moist, turning wet at 1.1 mbgs.
TP-109	42908	5265986	TP-109-1	0.75	Yes	(SW) Silty SAND, fine to coarse-grained, gravelly, grey-brown, cobbles and boulders (60% weight), wet.

Note:
mbgs : metres below ground surface

5.0 IN-SITU HYDRAULIC CONDUCTIVITY TESTING

5.1 Slug Tests

A total of 82 single well rising head and/or falling head response tests (slug tests) were conducted in select groundwater monitoring wells and the data were analyzed using the Hvorslev method (Fetter 1994) to estimate the hydraulic conductivity of overburden and bedrock throughout the Project site.

Wells were developed prior to conducting the slug tests, and water levels were allowed to recover to static levels following the development. The slug tests involved measuring the static water level depth and then displacing the water column using a Waterra® three-part well slug or inertial pumps (polyethylene tubing and foot valves). Recovering water levels were measured using automatic water level data loggers set to record time, pressure and temperature at an appropriate time interval based on the rate of recovery observed during well development. Water levels were also measured manually prior to, during and after each test to determine the end of the test and the data loggers were then removed and downloaded.

Measurements from the slug tests were analyzed using the Hvorslev method. This method is based on the formula for hydraulic conductivity (K) in a variable head scenario:

$$K = \frac{d^2 \times \ln \frac{2L}{D}}{8 \times L \times (t_2 - t_1)} \times \ln(H_2 - H_1)$$



Where:

K= hydraulic conductivity

d = well pipe diameter (standpipe)

L = length of test interval (well screen)

D = screen/filter pack diameter

t = time, seconds

H = head

5.2 Packer Tests

During the 2012 and 2013 Winter Site Investigations, Knight Piésold carried out hydraulic conductivity testing (Lugeon packer tests) of the shallow bedrock (less than 10 m depth) in the vicinity of the open pit and TMF. Packer tests were carried out using nitrogen inflatable single packers to isolate the bedrock zone after completion of drilling. Testing intervals typically comprised the lower 3 m to 7 m of the boreholes. A total of 49 Lugeon packer tests were completed in 42 boreholes during the two site investigations.

Further description of the procedures, methods of analysis and results for the Lugeon packer tests completed in the shallow geotechnical/hydrogeological boreholes are provided in the Knight Piésold reports on *2012 Winter Site Investigation Summary (Ref. No. NB101-497/1-1)*, dated June 21, 2012, and *2013 Winter Site Investigation Summary (Ref. No. NB101-497/5-1 Rev 1)*.

During the 2012 Geomechanical Investigation, Knight Piésold carried out packer tests in each of the angled drillholes to investigate the rock masses and geologic structural features in the vicinity of the final open pit walls. Single packer tests were conducted at regular intervals as the drillhole advanced to characterize the different rock units and to develop profiles of hydraulic conductivity. Straddle packer tests were conducted to target specific structural features or better characterize zones of particular interest (i.e. higher permeability zones). These tests were completed on advance or after completion of the drillhole, depending on the circumstances. A total of 111 packer tests were conducted during the 2013 Geomechanical Investigation.

Further description of the procedures, methods of analysis and results for the packer tests completed in the deep, angled geomechanical drillholes is provided in the Knight Piésold report on *Open Pit Slope Design (Ref. No. NB101-497/2-1 Rev 0)*.



APPENDIX B

Borehole Completion Details

Project Component	Borehole ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾⁽³⁾		Ground Surface Elevation (masl) ⁽²⁾⁽³⁾⁽⁴⁾	Borehole Depth (mbgs) ⁽⁵⁾	Depth to Bedrock (mbgs) ⁽⁵⁾	Bedrock Surface Elevation (masl) ⁽⁴⁾
			Easting	Northing				
Open Pit	BH12-1	2012 HBS (Golder)	429129	5266307	393.23	5.94	0.00	393.23
	BH12-BULK 1	2012 HBS (Golder)	429392	5266431	393.82	7.22	0.00	393.82
	BH12-2	2012 HBS (Golder)	429370	5266558	384.10	20.33	16.51	367.59
	BH12-3	2012 HBS (Golder)	429481	5266487	384.80	9.63	6.50	378.30
	BH12-4	2012 HBS (Golder)	429776	5266787	381.70	7.26	3.30	378.40
	BH12-6	2012 HBS (Golder)	429846	5266757	385.00	7.06	1.50	383.50
	DH12-PO-01R	2012 SSI (KP)	429890	5267408	381.40	10.89	6.02	375.38
	DH12-PO-02R	2012 SSI (KP)	430041	5267309	375.06	12.32	7.79	367.27
	DH12-PO-03R	2012 SSI (KP)	430280	5267179	370.68	25.16	16.76	353.92
	DH12-PO-05R	2012 WSI (KP)	429949	5266494	381.22	13.72	10.75	370.47
	DH12-PO-06R	2012 SSI (KP)	429963	5266386	381.16	6.12	2.26	378.90
	DH12-PO-07R	2012 SSI (KP)	429588	5265999	385.30	10.15	6.38	378.92
	DH12-PO-08R	2012 SSI (KP)	429456	5266025	385.50	9.37	4.11	381.39
	DH12-PO-09	2012 WSI (KP)	429065	5266223	388.40	5.25	2.75	385.65
	DH12-PO-10	2012 WSI (KP)	429113	5266760	386.94	4.29	1.41	385.53
	DH12-PO-11	2012 WSI (KP)	429320	5267107	382.15	3.25	2.05	380.10
	DH12-PO-12	2012 WSI (KP)	429513	5266886	381.42	16.11	12.93	368.49
	DH12-PO-13	2012 WSI (KP)	429369	5266689	381.71	5.87	2.32	379.39
	DH12-PO-14	2012 WSI (KP)	429707	5266673	380.44	19.72	15.85	364.59
	DH12-PO-15	2012 SSI (KP)	429521	5265814	385.8	9.22	5.68	380.1
	DH12-PO-16	2012 SSI (KP)	429564	5265927	385.60	19.81	16.13	369.47
	DH12-PO-17	2012 SSI (KP)	429893	5266168	389.9	9.29	5.84	384.1
	DH12-PO-18	2012 SSI (KP)	430302	5266664	390.4	4.69	2.48	387.9
	DH12-PO-19	2012 SSI (KP)	430388	5266918	382.4	24.48	19.08	363.4
	DH12-PO-20	2012 SSI (KP)	430247	5266771	383.05	16.74	11.31	371.74
	DH12-PO-21	2012 SSI (KP)	430024	5266259	381.17	19.68	14.75	366.42
	DH12-PO-22	2012 SSI (KP)	430072	5266327	381.33	25.73	22.08	359.25
	DH13-PO-01	2013 WSI (KP)	431020	5266977	381.03	10.06	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-PO-02	2013 WSI (KP)	430620	5266934	381.59	19.20	13.44	368.15
	DH13-PO-03	2013 WSI (KP)	430332	5266402	381.79	22.00	16.86	364.93
	DH13-PO-04	2013 WSI (KP)	430113	5266110	381.19	14.33	8.38	372.81
	DH13-PO-05	2013 WSI (KP)	430163	5265922	381.24	18.90	12.47	368.77
	DH13-PO-06	2013 WSI (KP)	429640	5265761	384.01	12.60	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-PO-08	2013 WSI (KP)	429526	5265371	391.35	6.94	1.59	389.76
	DH13-PO-09	2013 WSI (KP)	429044	5265611	386.55	10.07	2.42	384.13
	DH13-PO-10	2013 WSI (KP)	429081	5265769	384.26	10.00	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-PO-11	2013 WSI (KP)	428771	5265858	385.04	2.20	1.14	383.90
	DH13-PO-12	2013 WSI (KP)	428954	5265930	384.94	9.40	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-PO-13	2013 WSI (KP)	428825	5266051	383.93	7.85	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-PO-14	2013 WSI (KP)	428738	5266256	383.30	8.85	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-PO-15	2013 WSI (KP)	428679	5266405	386.06	8.35	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-PO-16	2013 WSI (KP)	428824	5267009	385.97	8.45	0.93	385.04
	DH13-PO-17	2013 WSI (KP)	428745	5267083	386.32	8.70	1.52	384.80
DH13-PO-18	2013 WSI (KP)	428980	5267220	387.51	7.13	0.84	386.67	
DH13-PO-19	2013 WSI (KP)	428938	5267481	397.59	11.65	5.48	392.11	
DH13-PO-20	2013 WSI (KP)	429290	5267618	388.22	7.14	1.87	386.35	
DH13-PO-21	2013 WSI (KP)	429424	5267540	387.27	8.75	3.16	384.11	
DH13-PO-22	2013 WSI (KP)	430025	5267656	382.01	13.18	6.58	375.43	
DH13-PO-23	2013 WSI (KP)	429561	5265659	385.77	16.36	10.13	375.64	
DH13-RCP-01	2013 WSI (KP)	430380	5268347	379.82	11.75	n/a ⁽⁶⁾	n/a ⁽⁶⁾	

Notes:

(1) Boreholes completed by Knight Piésold during 2012 Winter Site Investigation denoted as "2012 WSI (KP)". Boreholes completed by Golder during 2012 Hydrogeological Investigation for Open Pit Bulk Sampling Locations denoted as "2012 HBS (Golder)". Boreholes completed by Knight Piésold during 2012 Summer Site Investigation denoted as "2012 SSI (KP)". Boreholes completed by Knight Piésold during 2013 Winter Site Investigation denoted as "2013 WSI (KP)".

(2) UTM coordinates and elevations provided by a professional surveyor (L. Labelle Surveys)

(3) UTM coordinates and elevations in **bold** font were not surveyed; they were estimated from available topographic contour information and are approximate

(4) "masl" refers to metres above sea level

(5) "mbgs" refers to metres below ground surface

(6) Depth to bedrock was not confirmed by coring

Project Component	Borehole ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾⁽³⁾		Ground Surface Elevation (masl) ⁽²⁾⁽³⁾⁽⁴⁾	Borehole Depth (mbgs) ⁽⁵⁾	Depth to Bedrock (m gs) ⁽⁵⁾	Bedrock Surface Elevation (masl) ⁽⁴⁾
			Easting	Northing				
Mine Rock Area (MRA)	DH12-WD-01	2012 WSI (KP)	430301	5267985	382.71	4.15	1.15	381.56
	DH12-WD-03	2012 WSI (KP)	427144	5266357	397.24	8.08	5.15	392.09
	DH12-WD-05R	2012 SSI (KP)	427932	5264852	393.80	5.99	1.60	392.20
	DH12-WD-12	2012 WSI (KP)	429416	5264679	386.05	11.38	8.43	377.62
	DH12-WD-13	2012 WSI (KP)	429677	5264486	386.62	9.40	7.24	379.38
	DH12-WD-14	2012 WSI (KP)	429878	5265341	386.66	11.66	7.40	379.26
	DH12-WD-15	2012 WSI (KP)	430199	5265843	381.14	15.01	11.74	369.40
	DH12-WD-16	2012 WSI (KP)	430542	5266269	382.50	11.72	7.95	374.55
	DH12-WD-17	2012 WSI (KP)	431215	5266130	381.99	25.43	22.60	359.39
	DH12-WD-18	2012 WSI (KP)	431278	5265968	381.93	16.90	13.93	368.00
	DH12-WD-19	2012 WSI (KP)	427617	5266286	394.07	4.30	0.60	393.47
	DH12-WD-21	2012 WSI (KP)	429781	5264966	386.48	5.79	2.68	383.80
	DH12-WD-22	2012 SSI (KP)	430367	5265580	381.20	12.31	8.64	372.56
	DH12-WD-23	2012 WSI (KP)	432240	5264002	379.64	10.23	5.55	374.09
	DH12-WD-25	2012 WSI (KP)	429647	5268335	380.90	6.00	2.70	378.20
	DH12-WD-26	2012 WSI (KP)	428599	5267746	387.98	5.30	2.30	385.68
	DH12-WD-27	2012 WSI (KP)	428082	5265508	388.86	10.57	7.45	381.41
	DH13-WD-01	2013 WSI (KP)	431570	5263918	388.19	9.32	5.29	382.90
	DH13-WD-02	2013 WSI (KP)	431105	5263339	394.96	10.00	5.56	389.40
	DH13-WD-03	2013 WSI (KP)	429963	5263828	388.29	14.56	9.89	378.40
	DH13-WD-04	2013 WSI (KP)	431858	5264946	384.28	11.63	7.11	377.17
	DH13-WD-05	2013 WSI (KP)	427857	5264056	389.19	10.06	5.93	383.26
	DH13-WD-06	2013 WSI (KP)	431795	5268103	382.88	19.85	14.98	367.90
	DH13-WD-07	2013 WSI (KP)	433333	5268125	374.62	15.70	11.02	363.60
DH13-WD-08	2013 WSI (KP)	433764	5264127	388.54	11.59	5.44	383.10	
DH13-WD-09	2013 WSI (KP)	433295	5264351	387.92	5.64	0.86	387.06	
DH13-WD-10	2013 WSI (KP)	432928	5264606	381.16	9.48	5.83	375.33	
DH13-WD-11	2013 WSI (KP)	432633	5264912	381.35	5.64	0.45	380.90	
DH13-WD-12	2013 WSI (KP)	433076	5265763	391.23	19.30	14.23	377.00	
Watercourse Realignment	DH13-FD-01	2013 WSI (KP)	428547	5266152	381.16	13.60	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-FD-02	2013 WSI (KP)	428503	5266363	382.40	10.15	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-FD-05	2013 WSI (KP)	430408	5267726	377.83	16.46	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-FD-06	2013 WSI (KP)	430206	5267765	377.96	11.10	n/a ⁽⁶⁾	n/a ⁽⁶⁾
	DH13-FD-08	2013 WSI (KP)	428375	5270849	387.93	18.96	3.77	384.16
	DH13-FD-09	2013 WSI (KP)	427777	5272553	388.07	19.07	1.76	386.31

Notes:

(1) Boreholes completed by Knight Piésold during 2012 Winter Site Investigation denoted as "2012 WSI (KP)". Boreholes completed by Golder during 2012 Hydrogeological Investigation for Open Pit Bulk Sampling Locations denoted as "2012 HBS (Golder)". Boreholes completed by Knight Piésold during 2012 Summer Site Investigation denoted as "2012 SSI (KP)". Boreholes completed by Knight Piésold during 2013 Winter Site Investigation denoted as "2013 WSI (KP)".

(2) UTM coordinates and elevations provided by a professional surveyor (L. Labelle Surveys)

(3) UTM coordinates and elevations in **bold** font were not surveyed; they were estimated from available topographic contour information and are approximate

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(6) Depth to bedrock was not confirmed by coring

Project Component	Borehole ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾⁽³⁾		Ground Surface Elevation (masl) ⁽²⁾⁽³⁾⁽⁴⁾	Borehole Depth (mbgs) ⁽⁵⁾	Depth to Bedrock (mbgs) ⁽⁵⁾	Bedrock Surface Elevation (masl) ⁽⁴⁾
			Easting	Northing				
Tailings Management Facility (TMF)	DH12-TMF-01	2012 WSI (KP)	429295	5277334	371.76	15.60	10.44	361.32
	DH12-TMF-02	2012 WSI (KP)	429363	5277336	371.86	7.85	3.77	368.09
	DH12-TMF-03	2012 WSI (KP)	430494	5277014	374.11	6.83	2.71	371.40
	DH12-TMF-04	2012 WSI (KP)	430633	5273801	375.35	9.95	5.05	370.30
	DH12-TMF-05	2012 WSI (KP)	430191	5273640	372.90	6.75	2.00	370.90
	DH12-TMF-06	2012 WSI (KP)	430303	5273554	372.65	9.20	3.60	369.05
	DH12-TMF-07	2012 WSI (KP)	430107	5273628	372.20	7.65	2.65	369.55
	DH12-TMF-08	2012 WSI (KP)	429781	5273452	373.03	7.38	2.02	371.01
	DH12-TMF-09	2012 WSI (KP)	429216	5273136	374.36	11.70	7.36	367.00
	DH12-TMF-10	2012 WSI (KP)	428717	5271603	381.41	6.55	1.31	380.10
	DH12-TMF-11	2012 WSI (KP)	428858	5272976	373.60	23.80	5.53	368.07
	DH12-TMF-12	2012 WSI (KP)	428458	5273378	372.72	32.92	17.91	354.81
	DH12-TMF-13	2012 WSI (KP)	429706	5271159	376.10	10.54	2.66	373.44
	DH12-TMF-14	2012 WSI (KP)	430940	5270675	383.53	10.00	4.53	379.00
	DH12-TMF-15	2012 WSI (KP)	431332	5270641	380.39	7.60	2.19	378.20
	DH12-TMF-16	2012 WSI (KP)	431709	5273067	388.84	5.85	0.75	388.09
	DH12-TMF-17	2012 WSI (KP)	428941	5278158	373.89	23.37	13.11	360.78
	DH12-TMF-18	2012 WSI (KP)	429586	5278318	376.49	13.84	10.35	366.14
	DH12-TMF-19	2012 WSI (KP)	430875	5277434	366.51	9.62	1.40	365.11
	DH12-TMF-20	2012 WSI (KP)	429700	5274590	373.80	17.88	12.83	360.97
	DH12-TMF-21	2012 WSI (KP)	430008	5274636	372.18	8.25	3.02	369.16
	DH12-TMF-22	2012 WSI (KP)	430202	5274657	376.54	12.82	4.57	371.97
	DH12-TMF-23	2012 WSI (KP)	429412	5277475	372.50	10.26	5.12	367.38
	DH12-TMF-24	2012 WSI (KP)	430594	5277385	370.10	9.11	4.21	365.89
	DH12-TMF-25	2012 WSI (KP)	429752	5276155	372.10	14.95	11.55	360.55
	DH12-TMF-26	2012 WSI (KP)	431259	5274246	383.03	24.00	17.70	365.33
	DH12-TMF-27	2012 WSI (KP)	429274	5273409	372.80	8.20	3.70	369.10
	DH12-TMF-28	2012 WSI (KP)	427955	5271799	387.40	7.50	4.50	382.90
	DH12-TMF-29	2012 WSI (KP)	429618	5272538	374.17	20.20	15.11	359.06
	DH12-TMF-30	2012 WSI (KP)	430387	5272108	383.48	9.16	4.13	379.35
	DH12-TMF-31	2012 WSI (KP)	429721	5270967	379.80	9.00	2.85	376.95
	DH12-TMF-32	2012 WSI (KP)	431145	5270531	385.70	6.17	3.07	382.63
	DH12-TMF-33	2012 WSI (KP)	432260	5271211	396.40	4.60	1.61	394.79

Notes:

(1) Boreholes completed by Knight Piésold during 2012 Winter Site Investigation denoted as "2012 WSI (KP)". Boreholes completed by Golder during 2012 Hydrogeological Investigation for Open Pit Bulk Sampling Locations denoted as "2012 HBS (Golder)". Boreholes completed by Knight Piésold during 2012 Summer Site Investigation denoted as "2012 SSI (KP)". Boreholes completed by Knight Piésold during 2013 Winter Site Investigation denoted as "2013 WSI (KP)".

(2) UTM coordinates and elevations provided by a professional surveyor (L. Labelle Surveys)

(3) UTM coordinates and elevations in **bold** font were not surveyed; they were estimated from available topographic contour information and are approximate

(4) "masl" refers to metres above sea level

(5) "bgs" refers to metres below ground surface

(6) Depth to bedrock was not confirmed by coring



APPENDIX C

Monitoring Well Completion Details

Table 1

Project Component	Monitoring Well ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾		Monitoring Well Type	Ground Surface Elevation (masl) ⁽²⁾⁽³⁾	Well Pipe Stick-Up Height (m)	Top of Pipe Elevation (masl) ⁽³⁾	Screened Interval (masl) ⁽³⁾		Screened Interval (mbgs) ⁽⁴⁾		Screened Material
			Easting	Northing					from	to	from	to	
Open Pit	BH12-1	2012 HBS (Golder)	429129	5266307	Single	393.23	0.90	394.13	385.78	387.30	7.45	5.93	Bedrock (Tonalite)
	BH12-2A	2012 HBS (Golder)	429370	5266558	Nested	384.10	0.84	384.89	363.70	365.22	20.40	18.88	Bedrock (Tonalite)
	BH12-2B	2012 HBS (Golder)							379.50	381.02	4.60	3.08	Silty SAND and GRAVEL
	BH12-3A	2012 HBS (Golder)	429481	5266487	Nested	384.80	0.84	385.65	375.20	376.72	9.60	8.08	Bedrock (Tonalite)
	BH12-3B	2012 HBS (Golder)							377.48	379.00	7.32	5.80	Silty SAND (0.3 m), SAND and GRAVEL (1.2 m)
	BH12-4	2012 HBS (Golder)	429776	5266787	Single	381.70	0.93	382.60	374.40	375.92	7.30	5.78	Bedrock (Tonalite)
	BH12-6 ⁽⁵⁾	2012 HBS (Golder)	429846	5266757	Single	385.00	0.90	385.91	378.00	379.52	7.00	5.48	Bedrock (Tonalite)
	BH12-BULK 1	2012 HBS (Golder)	429392	5266431	Single	393.82	0.90	394.72	386.60	388.12	7.22	5.70	Bedrock (Tonalite)
	DH12-PO-01RA	2012 SSI (KP)	429890	5267408	Nested	381.4	0.72	382.10	370.61	373.61	10.79	7.79	Bedrock (Tonalite)
	DH12-PO-01RB	2012 SSI (KP)							376.08	379.08	5.32	2.32	SILT (1.34 m), silty SAND (1.66 m)
	DH12-PO-05RA	2012 WSI (KP)	429949	5266494	Nested	381.22	0.78	382.00	367.81	369.33	13.41	11.89	Bedrock (Quartzite)
	DH12-PO-05RB	2012 WSI (KP)							373.90	375.42	7.32	5.80	TILL (1.52 m)
	DH12-PO-08RA	2012 SSI (KP)	429456	5266025	Nested	385.50	0.79	386.24	376.22	379.22	9.28	6.28	Bedrock (Diorite)
	DH12-PO-08RB	2012 SSI (KP)							386.28	386.28	381.35	382.85	4.15
	DH12-PO-10	2012 WSI (KP)	429113	5266760	Single	386.94	0.84	387.78	382.81	384.33	4.13	2.61	Bedrock (Granite)
	DH12-PO-13	2012 WSI (KP)	429369	5266689	Single	381.71	0.87	382.58	376.26	377.78	5.45	3.93	Bedrock (Granite)
	DH12-PO-14B	2012 WSI (KP)	429707	5266673	Single	380.44	1.08	382.27	365.75	367.27	14.69	13.17	SILT (0.33 m), TILL (1.19 m)
	DH12-PO-16A	2012 SSI (KP)	429564	5265927	Nested	385.60	0.79	386.40	370.93	373.93	14.67	11.67	TILL
	DH12-PO-16B	2012 SSI (KP)							386.39	386.39	376.65	379.65	9.74
	DH12-PO-20A	2012 SSI (KP)	430247	5266771	Nested	383.05	0.76	383.81	372.24	375.24	10.81	7.81	TILL
	DH12-PO-20B	2012 SSI (KP)							383.92	380.08	4.47	2.97	SILT/SAND, trace clay, poorly graded
	DH12-PO-21A	2012 SSI (KP)	430024	5266259	Nested	381.17	0.86	382.03	361.66	364.66	19.51	16.51	Bedrock (Tonalite)
	DH12-PO-21B	2012 SSI (KP)							366.83	369.83	14.34	11.34	SAND (2.38 m), SAND/SILT (0.55 m), TILL (0.07 m)
	DH12-PO-21C	2012 SSI (KP)							382.05	371.53	373.05	9.64	8.12
	DH12-PO-22	2012 SSI (KP)	430072	5266327	Single	381.33	0.92	382.25	359.32	362.32	22.01	19.01	TILL
	DH13-PO-01	2013 WSI (KP)	431020	5266977	Single	381.03	1.03	382.06	374.02	377.06	7.01	3.97	SILT (2.81m), PEAT (0.23m)
	DH13-PO-02	2013 WSI (KP)	430620	5266934	Single	381.59	1.21	382.80	368.10	369.59	13.49	12.00	Gravel (0.1m), Sand (0.1m), Cobbles (1.3m)
	DH13-PO-04	2013 WSI (KP)	430113	5266110	Single	381.19	0.99	382.18	366.91	369.91	14.28	11.28	Bedrock
	DH13-PO-05A	2013 WSI (KP)	430163	5265922	Nested	381.24	1.23	382.47	362.44	365.44	18.80	15.80	Bedrock
	DH13-PO-05B	2013 WSI (KP)	430163	5265922		381.21	1.21	382.42	376.14	379.14	5.07	2.07	SAND/SILT (1.28m), SAND (1.72m)
DH13-PO-08	2013 WSI (KP)	429526	5265371	Single	390.45 ⁽⁶⁾	0.90 ⁽⁶⁾	391.35	384.75	387.75	5.70	2.70	Bedrock	
DH13-PO-09A	2013 WSI (KP)	429044	5265611	Nested	386.55	1.09	387.64	376.59	379.59	9.96	6.96	Bedrock	
DH13-PO-09B	2013 WSI (KP)	429044	5265611					387.25	383.04	384.54	3.51	2.01	Sand (1.0m), Sand/Silt (0.49m)
DH13-PO-16A	2013 WSI (KP)	428824	5267009	Nested	385.97	0.94	386.91	377.58	380.58	8.39	5.39	Bedrock	
DH13-PO-16B	2013 WSI (KP)	428824	5267009					387.13	384.11	385.61	1.86	0.36	Sand (0.36m), suspect peat (1.14m)
DH13-PO-18	2013 WSI (KP)	428980	5267220	Single	387.51	0.90	388.41	380.43	383.43	7.08	4.08	Bedrock	
DH13-PO-19	2013 WSI (KP)	428938	5267481	Single	397.59	0.90	398.49	392.64	394.14	4.95	3.45	Gravel	
DH13-PO-20	2013 WSI (KP)	429290	5267618	Single	388.22	0.94	389.16	381.15	384.15	7.07	4.07	Bedrock (Tonalite)	
DH13-PO-22	2013 WSI (KP)	430025	5267656	Single	382.01	1.04	383.05	375.41	376.91	6.60	5.10	Sand	
DH13-PO-23	2013 WSI (KP)	429561	5265659	Single	385.77	1.23	387.00	369.89	372.89	15.88	12.88	Bedrock (Diorite)	

Notes:

(1) Boreholes completed by Knight Piésold during 2012 Winter Site Investigation denoted as "2012 WSI (KP)". Boreholes completed by Golder during 2012 Hydrogeological Investigation for Open Pit Bulk Sampling Locations denoted as "2012 HBS (Golder)". Boreholes completed by Knight Piésold during 2012 Summer Site Investigation denoted as "2012 SSI (KP)". Boreholes completed by Golder during 2012 Groundwater Seepage Investigation denoted as "2012 GSI (Golder)". Boreholes completed by Knight Piésold during 2013 Winter Site Investigation denoted as "2013 WSI (KP)".

(2) UTM coordinates and elevations provided by a professional surveyor (L. Labelle Surveys)

(3) "masl" refers to metres above sea level

(4) "mbgs" refers to metres below ground surface

(5) Monitoring well was destroyed by heavy equipment in 2012

(6) Ground surface elevation provided by L. Labelle Surveys were inaccurate, this number was estimated using an assumed well pipe stick-up height of 0.90 m

Table 1

Project Component	Monitoring Well ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾		Monitoring Well Type	Ground Surface Elevation (masl) ⁽²⁾⁽³⁾	Well Pipe Stick-Up Height (m)	Top of Pipe Elevation (masl) ⁽³⁾	Screened Interval (masl) ⁽³⁾		Screened Interval (m bgs) ⁽⁴⁾		Screened Material
			Easting	Northing					from	to	from	to	
Mine Rock Area (MRA)	DH12-WD-01	2012 WSI (KP)	430301	5267985	Single	382.71	0.90	383.61	378.71	380.23	4.00	2.48	Bedrock (Diorite)
	DH12-WD-05R	2012 SSI (KP)	427932	5264852	Single	393.80	0.77	394.57	388.09	389.59	5.71	4.21	Bedrock (Diorite)
	DH12-WD-12A	2012 WSI (KP)	429416	5264679	Nested	386.05	1.05	387.10	374.80	376.32	11.25	9.73	Bedrock (Diabase)
	DH12-WD-12B	2012 WSI (KP)					1.07	387.12	378.23	379.75	7.82	6.30	SILT/SAND, fine to coarse, trace gravel
	DH12-WD-14	2012 WSI (KP)	429878	5265341	Single	386.66	0.77	387.43	375.22	376.74	11.44	9.92	Bedrock (Diabase)
	DH12-WD-17A	2012 WSI (KP)	431215	5266130	Nested	381.99	0.95	382.94	356.86	358.38	25.13	23.61	Bedrock (Granite)
	DH12-WD-17B	2012 WSI (KP)					0.89	382.85	371.76	372.97	10.23	9.02	SAND/SILT, trace clay
	DH12-WD-19	2012 WSI (KP)	427617	5266286	Single	394.07	1.01	395.08	389.92	391.44	4.15	2.63	Bedrock (Diabase)
	DH12-WD-23	2012 WSI (KP)	432240	5264002	Single	379.64	0.81	381.20	374.47	375.99	5.17	3.65	SILT/SAND (0.85 m), TILL (0.67 m)
	DH12-WD-25A	2012 WSI (KP)	429647	5268335	Nested	380.9	0.83	381.74	375.20	376.72	5.70	4.18	Bedrock (Diorite)
	DH12-WD-25B	2012 WSI (KP)					0.85	381.73	378.65	380.17	2.25	0.73	Organics (0.62 m), Cobbles/Boulders (0.75 m)
	DH12-WD-26	2012 WSI (KP)	428599	5267746	Single	387.98	1.05	389.03	383.13	384.65	4.85	3.33	Bedrock (Diorite)
	DH12-WD-27A	2012 WSI (KP)	428082	5265508	Nested	388.86	0.95	389.81	378.59	380.11	10.27	8.75	Bedrock (Granite)
	DH12-WD-27B	2012 WSI (KP)					0.94	389.80	381.73	383.25	7.13	5.61	SILT (0.39 m), TILL (1.13 m)
	DH13-WD-02A	2013 WSI (KP)	431105	5263339	Nested	394.96	0.99	395.95	385.06	388.06	9.90	6.90	Bedrock (Tonalite)
	DH13-WD-02B	2013 WSI (KP)	431105	5263339		395.06 ⁽⁵⁾	0.90 ⁽⁵⁾	395.96	389.15	392.15	5.91	2.91	SAND/SILT (0.81m), Organics (2.19m)
	DH13-WD-03A	2013 WSI (KP)	429963	5263828	Nested	388.29	1.11	389.40	377.01	380.01	11.28	8.28	Bedrock (1.08m), Gravel (1.92m)
	DH13-WD-03B	2013 WSI (KP)	429963	5263828		388.19	0.89	389.08	383.77	386.77	4.42	1.42	SILT (2.14m), Organics (0.86m)
	DH13-WD-04A	2013 WSI (KP)	431858	5264946	Nested	384.28	1.06	385.34	372.78	375.78	11.50	8.50	Bedrock (Tonalite)
	DH13-WD-04B	2013 WSI (KP)	431858	5264946		384.25	1.19	385.44	378.15	381.15	6.10	3.10	SAND (0.66m), SILT (2.34m)
	DH13-WD-06A	2013 WSI (KP)	431795	5268103	Nested	382.88	0.81	383.69	363.22	366.22	19.66	16.66	Bedrock (Gabbro)
	DH13-WD-06B	2013 WSI (KP)	431795	5268103		382.88	1.07	383.95	375.31	378.31	7.57	4.57	SAND/SILT
	DH13-WD-07A	2013 WSI (KP)	433333	5268125	Nested	374.62	1.18	375.80	359.12	362.12	15.50	12.50	Bedrock (Gabbro)
	DH13-WD-07B	2013 WSI (KP)	433333	5268125		374.61	1.15	375.76	368.81	371.81	5.80	2.80	SAND/GRAVEL (0.51m), SAND (2.49m)
	DH13-WD-08A	2013 WSI (KP)	433764	5264127	Nested	388.54	1.05	389.59	377.03	380.03	11.51	8.51	Bedrock
	DH13-WD-08B	2013 WSI (KP)	433764	5264127		388.48	1.15	389.63	383.48	386.48	5.00	2.00	SAND/GRAVEL (1.21m), SAND (1.79m)
	DH13-WD-11	2013 WSI (KP)	432633	5264912	Single	381.35	0.94	382.29	375.76	378.76	5.59	2.59	Bedrock (Diorite)
	DH13-WD-12A	2013 WSI (KP)	433076	5265763	Nested	391.23	0.99	392.22	371.98	374.98	19.25	16.25	Bedrock (Gabbro)
DH13-WD-12B	2013 WSI (KP)	433076	5265763	391.32		1.04	392.36	378.52	381.52	12.80	9.80	SAND/SILT (3.0m)	

Notes:

(1) Boreholes completed by Knight Piésold during 2012 Winter Site Investigation denoted as "2012 WSI (KP)". Boreholes completed by Golder during 2012 Hydrogeological Investigation for Open Pit Bulk Sampling Locations denoted as "2012 HBS (Golder)". Boreholes completed by Knight Piésold during 2012 Summer Site Investigation denoted as "2012 SSI (KP)". Boreholes completed by Golder during 2012 Groundwater Seepage Investigation denoted as "2012 GSI (Golder)". Boreholes completed by Knight Piésold during 2013 Winter Site Investigation denoted as "2013 WSI (KP)".

(2) UTM coordinates and elevations provided by a professional surveyor (L. Labelle Surveys)

(3) "masl" refers to metres above sea level

(4) "mbgs" refers to metres below ground surface

(5) Ground surface elevation provided by L. Labelle Surveys were inaccurate, this number was estimated using an assumed well pipe stick-up height of 0.90 m

Project Component	Monitoring Well ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾		Monitoring Well Type	Ground Surface Elevation (masl) ⁽²⁾⁽³⁾	Well Pipe Stick-Up Height (m)	Top of Pipe Elevation (masl) ⁽³⁾	Screened Interval (masl) ⁽³⁾		Screened Interval (m bgs) ⁽⁴⁾		Screened Material
			Easting	Northing					from	to	from	to	
Tailings Management Facility (TMF)	DH12-TMF-05A	2012 WSI (KP)	430191	5273640	Nested	372.9	0.89	373.78	366.50	368.02	6.40	4.88	Bedrock (Granite)
	DH12-TMF-05B	2012 WSI (KP)									1.00	373.90	370.00
	DH12-TMF-11	2012 WSI (KP)	428858	5272976	Single	373.60	0.86	374.96	350.80	353.85	22.80	19.75	Bedrock (Granite)
	DH12-TMF-12	2012 WSI (KP)	428458	5273378	Single	372.72	0.82	373.54	339.80	344.37	32.92	28.35	Bedrock (Granite)
	DH12-TMF-16	2012 WSI (KP)	431709	5273067	Single	388.84	0.93	389.77	383.50	386.55	5.34	2.29	Bedrock (Granite)
	DH12-TMF-20A	2012 WSI (KP)	429700	5274590	Nested	373.8	0.76	374.54	356.13	359.18	17.67	14.62	Bedrock (Granite)
	DH12-TMF-20B	2012 WSI (KP)									0.84	374.47	362.52
	DH12-TMF-23A	2012 WSI (KP)	429412	5277475	Nested	372.5	0.89	373.37	362.84	365.89	9.66	6.61	Bedrock (Granite)
	DH12-TMF-23B	2012 WSI (KP)									0.98	373.48	368.30
	DH12-TMF-24A	2012 WSI (KP)	430594	5277385	Nested	370.1	0.94	371.07	361.42	364.47	8.68	5.63	Bedrock (Granite)
	DH12-TMF-24B	2012 WSI (KP)									0.99	371.09	365.63
	DH12-TMF-25A	2012 WSI (KP)	429752	5276155	Nested	372.1	0.78	372.86	357.47	360.52	14.63	11.58	Bedrock (Granite and and Quartzite)
	DH12-TMF-25B	2012 WSI (KP)									0.91	372.94	363.21
	DH12-TMF-26	2012 WSI (KP)	431259	5274246	Single	383.03	0.84	383.87	359.73	262.78	23.30	20.25	Bedrock (Granite)
	DH12-TMF-27A	2012 WSI (KP)	429274	5273409	Nested	372.8	0.67	373.46	364.85	367.90	7.95	4.90	Bedrock (Granite)
	DH12-TMF-27B	2012 WSI (KP)									0.87	373.59	369.35
	DH12-TMF-28	2012 WSI (KP)	427955	5271799	Single	387.40	0.90	388.30	380.20	381.72	7.20	5.68	Bedrock (Granite)
	DH12-TMF-29	2012 WSI (KP)	429618	5272538	Single	374.17	0.79	374.96	354.00	357.05	20.17	17.12	Bedrock (Granite)
	DH12-TMF-30	2012 WSI (KP)	430387	5272108	Single	383.48	0.86	384.34	373.70	377.75	9.78	5.73	Bedrock (Granite)
	DH12-TMF-31A	2012 WSI (KP)	429721	5270967	Nested	379.8	1.02	380.80	371.16	374.21	8.64	5.59	Bedrock (Diabase)
DH12-TMF-31B	2012 WSI (KP)	1.15									380.87	377.00	377.90
DH12-TMF-32A	2012 WSI (KP)	431145	5270531	Nested	385.7	1.03	386.71	379.65	381.17	6.05	4.53	Bedrock (Diabase)	
DH12-TMF-32B	2012 WSI (KP)									0.93	386.52	382.97	383.87
DH12-TMF-33	2012 WSI (KP)	432260	5271211	Single	396.40	0.94	397.31	392.09	393.61	4.31	2.79	Bedrock (Granite)	

Notes:

(1) Boreholes completed by Knight Piésold during 2012 Winter Site Investigation denoted as "2012 WSI (KP)". Boreholes completed by Golder during 2012 Hydrogeological Investigation for Open Pit Bulk Sampling Locations denoted as "2012 HBS (Golder)". Boreholes completed by Knight Piésold during 2012 Summer Site Investigation denoted as "2012 SSI (KP)". Boreholes completed by Golder during 2012 Groundwater Seepage Investigation denoted as "2012 GSI (Golder)". Boreholes completed by Knight Piésold during 2013 Winter Site Investigation denoted as "2013 WSI (KP)".

(2) UTM coordinates and elevations provided by a professional surveyor (L. Labelle Surveys)

(3) "masl" refers to metres above sea level

(4) "mbgs" refers to metres below ground surface



APPENDIX D

Borehole Log Sheets

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF DRILLHOLE: BH12-1

SHEET 1 OF 1

LOCATION: N 5266307.0 ; E 429129.0

DRILLING DATE: APRIL 25, 2012

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 850

DRILLING CONTRACTOR: Marathon Drilling

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	COLOUR	FLUSH	RECOVERY		R.Q.D. %	FRACT. INDEX METRES	DISCONTINUITY DATA			HYDRAULIC CONDUCTIVITY			Diameter Point Load Index (MPa)	RMC -Q' AVG.	NOTES WATER LEVELS INSTRUMENTATION					
								TOTAL CORE %	SOLID CORE %			B Angle	DIP w/EL. CORE AXIS	Type AND SURFACE DESCRIPTION	Jr	Ja	Jn				k, cm/s	10 ⁰	10 ¹	10 ²	10 ³
								80000000	80000000			000000	000000	000000	000000	000000	000000				000000	000000	000000	000000	000000
0		TOP OF BEDROCK		393.23																					
0		Pinkish medium grey, medium to coarse grained, massive felsic intrusive (TONALITE), numerous chloritized joints, some quartz veinlets and healed fractures		0.00																					
1					1	GREY	100%																		
2					2	GREY	100%																		
3					3	GREY	100%																		
4					4	GREY	100%																		
5																									
6		END OF DRILLHOLE		387.3																					
6				5.9																					
7																									
8																									
9																									
10																									

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

SUD-RCK 12-1192-0010.GPJ GAL-MISS.GDT 12/07/12 DATA INPUT:

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF BOREHOLE: BH12-2A

SHEET 1 OF 3

LOCATION: E 429370; N 5266558; (NAD 83)

BORING DATE: APRIL 26-27, 2012

DATUM: Geodetic

SAMPLER HAMMER, 29 kg; DROP, 19305 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 29 kg; DROP, 19305 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES			DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●	rem V. ⊕			U - ○
0	CME 850 200 MM DIAM. HOLLOW STEM AUGERS	GROUND SURFACE (SM) and (GP) SILTY SAND and GRAVEL , fine-grained, well-graded, light brown, cobbles inferred during augering, moist, compact.		384.1 0.0	1	SS	14										
1				2	SS	20											
2				3	SS	17											
3				4	SS	49											
4				5	SS	23											
5			(ML) SILT , light brown, wet, dense.		379.5 4.6	7	SS	136									
6					8	SS	125										
7					9	SS	158										
8					10	SS	120										
9			(SP) and (GP) SAND and GRAVEL , fine-grained, grey, wet, dense, (TILL).		374.9 9.1												
10		CONTINUED NEXT PAGE															

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 12/07/12 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF BOREHOLE: BH12-2A

SHEET 2 OF 3

LOCATION: E 429370; N 5266558; (NAD 83)

BORING DATE: APRIL 26-27, 2012

DATUM: Geodetic

SAMPLER HAMMER, 29 kg; DROP, 19305 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 29 kg; DROP, 19305 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES			DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								20 40 60 80		nat V. + Q - rem V. ⊕ U - ○		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³		Wp W Wi			
10	CME 850 200 MM DIAM. HOLLOW STEM AUGERS	--- CONTINUED FROM PREVIOUS PAGE --- (SP) and (GP) SAND and GRAVEL, fine-grained, grey, wet, dense, (TILL).															
				373.4													
11			(SP) SAND, grey, wet, dense.	10.7	11	SS	59										
12																	
13																	
14																	
15																	
16																	
					367.9												
					16.2												
					367.6												
17					16.5												
			Pinkish medium grey, medium grained, massive felsic intrusive (TONALITE), numerous chloritized joints, some quartz veinlets and healed fractures (from depth 16.46 to 19.8 m); and Grey-green, fine grained, massive mafic intrusive, some chloritized joints and healed fractures, trace sulfides (from 19.8 to 20.3 m)														
			Bedrock cored from 16.5 m depth to 20.3 m depth.														
18	CME 850 HQ CORING		For coring details see Record of Drillhole BH12-2A.														
19																	
20																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 12/07/12 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

CONTINUED NEXT PAGE

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF BOREHOLE: BH12-2A

SHEET 3 OF 3

LOCATION: E 429370; N 5266558; (NAD 83)

BORING DATE: APRIL 26-27, 2012

DATUM: Geodetic

SAMPLER HAMMER, 29 kg; DROP, 19305 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 29 kg; DROP, 19305 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
20		-- CONTINUED FROM PREVIOUS PAGE --															
				363.7 20.3													
		END OF BOREOLE															
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

- Riser pipe stick-up = 0.84 m.
 - Well pipe diameter = 0.05 m.
 - Water level measured on June 27, 2012 (3.13 m btp)

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 12/07/12 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF DRILLHOLE: BH12-2A

SHEET 1 OF 1

LOCATION: N 5266558.0 ; E 429370.0

DRILLING DATE: APRIL 26-27, 2012

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 850

DRILLING CONTRACTOR: Marathon Drilling

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	COLOUR	JN - Joint FLT - Fault SHR - Shear VN - Vein CJ - Conjugate	BD - Bedding FO - Foliation CO - Contact OR - Orthogonal CL - Cleavage	PL - Planar CU - Curved UN - Undulating ST - Stepped IR - Irregular	PO - Polished K - Slickensided SM - Smooth Ro - Rough MB - Mechanical Break	BR - Broken Rock	NOTE: For additional abbreviations refer to list of abbreviations & symbols.	DISCONTINUITY DATA										RMC -Q' AVG.	NOTES WATER LEVELS INSTRUMENTATION				
													FLUSH	RECOVERY		R.Q.D. %	FRACT. INDEX METRES	B Angle	DIP W/EL. CORE AXIS	TYPE AND SURFACE DESCRIPTION	Ir	Ja			Jn	HYDRAULIC CONDUCTIVITY k, cm/s		Diametral Point Load Index (MPa)
														TOTAL CORE %	SOLID CORE %											10 ⁰	10 ¹	
		TOP OF BEDROCK		367.59																								
17	CME 850 HQ CORING	Pinkish medium grey, medium grained, massive felsic intrusive (TONALITE), numerous chloritized joints, some quartz veinlets and healed fractures (from depth 16.46 to 19.8 m); and Grey-green, fine grained, massive mafic intrusive, some chloritized joints and healed fractures, trace sulfides (from 19.8 to 20.3 m)	[Symbolic Log]	16.46	1	GREY	100%																		Bentonite			
18				2	GREY	100%																						
19				3	GREY	100%																						Silica Sand
20				4	GREY	100%																						Screen
21		END OF DRILLHOLE		363.7 20.3																					- Riser pipe stick-up = 0.84 m. - Well pipe diameter = 0.05 m. - Water level measured on June 27, 2012 (3.13 m btp)			
22																												
23																												
24																												
25																												
26																												

SUD-RCK 12-1192-0010.GPJ GAL-MISS.GDT 12/07/12 DATA INPUT:

DEPTH SCALE
1 : 50



LOGGED: ID
CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF BOREHOLE: BH12-2B

SHEET 1 OF 1

LOCATION: E 429370; N 5266558; (NAD 83)

BORING DATE: APRIL 26-27, 2012

DATUM: Geodetic

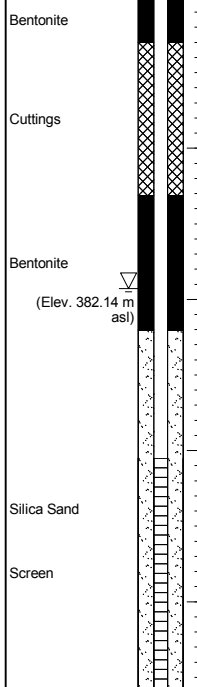
SAMPLER HAMMER, 29 kg; DROP, 19305 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 29 kg; DROP, 19305 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0	CME 850 200 MM DIAM. HOLLOW STEM AUGERS	GROUND SURFACE		384.1													
0.0		(SM) and (GP) SILTY SAND and GRAVEL , fine-grained, well-graded, light brown, cobbles inferred during augering, moist, compact.		0.0													
1																	
2																	
3																	
4																	
5		END OF BOREHOLE		379.5													
4.6				4.6													
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 12/07/12 DATA INPUT:



- Riser pipe stick-up = 0.83 m.
 - Well pipe diameter = 0.05 m.
 - Water level measured on June 27, 2012 (2.758 m btp)

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF BOREHOLE: BH12-3A

SHEET 1 OF 1

LOCATION: E 429481; N5266487; (NAD 83)

BORING DATE: APRIL 27-28, 2012

DATUM: Geodetic

SAMPLER HAMMER, 29 kg; DROP, 19305 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 29 kg; DROP, 19305 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES			DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴			10 ⁻³
0	CME 850 200 MM DIAM. HOLLOW STEM AUGERS	GROUND SURFACE		384.8													
		(SM) and (GP) SILTY SAND and GRAVEL , fine-grained, light brown, moist, compact, (FILL).		0.0	1	SS	12										Bentonite
1		(SM) SILTY SAND , fine-grained, light brown, wet, compact.		384.2													Cuttings
				0.6	2	SS	14										Silica Sand
2					3	SS	12										(Elev. 383.2 m asl)
					4	SS	7										Cuttings
3					5	SS	4										Bentonite
4					6	SS	9										
5	CME 850 HQ CORING	(SW) and (GP) SAND and GRAVEL , fine-grained, well-graded, light brown, wet, compact.		380.2													Cuttings
				4.6	7	SS	17										
6					8	SS	106										
7		Light grey, fine to medium grained, highly siliceous, massive felsic intrusive (TONALITE), numerous chloritized joints, some quartz veinlets and healed fractures		378.3													Bentonite
		Bedrock cored from 6.5 m depth to 9.6 m depth.		6.5													
		For coring details see Record of Drillhole BH12-3A.															
8																	Silica Sand
9																	Screen
10		END OF BOREOLE		375.2													* See record of drillhole for details
				9.6													

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 12/07/12 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF DRILLHOLE: BH12-3A

SHEET 1 OF 1

LOCATION: N 5266487.0 ; E 429481.0

DRILLING DATE: APRIL 27-28, 2012

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 850

DRILLING CONTRACTOR: Marathon Drilling

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	COLOUR % RETURN	RECOVERY		R.Q.D. %	FRACT. INDEX METRES	DISCONTINUITY DATA			HYDRAULIC CONDUCTIVITY			Diameter Point Load Index (MPa)	RMC - Q' AVG.	NOTES WATER LEVELS INSTRUMENTATION					
							FLUSH	TOTAL CORE %			SOLID CORE %	B Angle	DIP w/EL. CORE AXIS	TYPE AND SURFACE DESCRIPTION	Jr	Ja				Jn	k, cm/s	10 ⁰	10 ¹	10 ²
								80 90 95 98 99 100			80 90 95 98 99 100													
		TOP OF BEDROCK		378.32																				
7	CME 850 HQ CORING	Light grey, fine to medium grained, highly siliceous, massive felsic intrusive (TONALITE), numerous chloritized joints, some quartz veinlets and healed fractures	[Symbolic Log Pattern]	6.49		GREY 100%													Bentonite					
					GREY 100%															JIR				
8					GREY 100%																JIR			
9					GREY 100%																JIR			
		END OF DRILLHOLE		375.2 9.6															Silica Sand					
10																			Screen					
11																			- Riser pipe stick-up = 0.84 m. - Well pipe diameter = 0.05 m. - Water level measured on June 27, 2012 (2.451 m btp)					
12																								
13																								
14																								
15																								
16																								

SUD-RCK 12-1192-0010.GPJ GAL-MISS.GDT 12/07/12 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF BOREHOLE: BH12-3B

SHEET 1 OF 1

LOCATION: E 429481; N 5266487; (NAD 83)

BORING DATE: APRIL 28, 2012

DATUM: Geodetic

SAMPLER HAMMER, 29 kg; DROP, 19305 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 29 kg; DROP, 19305 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								20 40 60 80		nat V. + Q - rem V. ⊕ U - ⊙		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³				Wp ----- W ----- WI	
0	CME 850 200 MM DIAM. HOLLOW STEM AUGERS	GROUND SURFACE		384.8													
		(SM) and (GP) SILTY SAND and GRAVEL , fine-grained, light brown, moist, compact, (FILL).		0.0												Bentonite	
1		(SM) SILTY SAND , fine-grained, light brown, wet, compact.		0.6												Cuttings (Elev. 383.0 m asl)	
2																	
3																Bentonite	
4																	
5		(SW) SAND and GRAVEL , fine, well-graded, light brown, wet, compact.		380.2	4.6											Silica Sand	
6		END OF BOREHOLE		379.0	5.8											Screen	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 12/07/12 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF BOREHOLE: BH12-4

SHEET 1 OF 1

LOCATION: E 429776; N 5266787; (NAD 83)

BORING DATE: APRIL 29-30, 2012

DATUM: Geodetic

SAMPLER HAMMER, 29 kg; DROP, 19305 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 29 kg; DROP, 19305 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES			DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								20 40 60 80		nat V. + Q - rem V. ⊕ U - ○		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³		Wp W Wi			
0	CME 850 200 MM DIAM. HOLLOW STEM AUGERS	GROUND SURFACE		381.7													
		(SM) SILTY SAND, fine-grained, light brown, occasional cobble, moist, compact.		0.0	1	SS	10										Bentonite (Elev. 381.21 m asl)
1					2	SS	10										
2			(ML) SILT, light brown-beige, wet, compact.		380.2												Bentonite / Cuttings
				1.5	3	SS	12										
3		(SP) and (GP) SAND and GRAVEL, fine, light brown, cobbles, wet, compact.		378.8													Cuttings
				2.9													
4		Pinkish medium grey, medium grained, massive felsic intrusive (TONALITE), numerous chloritized joints, some quartz veinlets and healed fractures		378.4													
				3.3													Bentonite
5	CME 850 HQ CORING	Bedrock cored from 3.3 m depth to 7.3 m depth.															
			For coring details see Record of Drillhole BH12-4.														
6																	
7																	
8																	
9																	
10																	
		END OF BOREOLE		374.4													
				7.3													

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 12/07/12 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF DRILLHOLE: BH12-4

SHEET 1 OF 1

LOCATION: N 5266787.0 ; E 429776.0

DRILLING DATE: APRIL 29-30, 2012

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 850

DRILLING CONTRACTOR: Marathon Drilling

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	COLOUR % RETURN	RECOVERY		R.Q.D. %	FRACT. INDEX METRES	DISCONTINUITY DATA				HYDRAULIC CONDUCTIVITY		Diametral Point Load Index (MPa)	RMC -Q' AVG.	NOTES WATER LEVELS INSTRUMENTATION					
							TOTAL CORE %	SOLID CORE %			B Angle	DIP w/EL. CORE AXIS	TYPE AND SURFACE DESCRIPTION	Ur	Ja	Ln				k, cm/s	10 ⁰	10 ¹	10 ²	10 ³
							FLUSH																	
		TOP OF BEDROCK		378.36																				
4	CME 850 HQ CORING	Pinkish medium grey, medium grained, massive felsic intrusive (TONALITE), numerous chloritized joints, some quartz veinlets and healed fractures		3.31	1	GREY												Cuttings						
5					2	GREY													Bentonite					
6					3	GREY														Silica Sand				
7		END OF DRILLHOLE		374.4														Screen						
8				7.3														- Riser pipe stick-up = 0.93 m. - Well pipe diameter = 0.05 m. - Water level measured on June 27, 2012 (1.393 m btp)						
9																								
10																								
11																								
12																								
13																								

SUD-RCK 12-1192-0010.GPJ GAL-MISS.GDT 12/07/12 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF BOREHOLE: BH12-6

SHEET 1 OF 1

LOCATION: E 429846; N 5266757; (NAD 83)

BORING DATE: APRIL 29, 2012

DATUM: Geodetic

SAMPLER HAMMER, 29 kg; DROP, 19305 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 29 kg; DROP, 19305 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRAATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	10 ⁻⁶	10 ⁻⁵			10 ⁻⁴	10 ⁻³
0	CME 850 200 MM DIAM. HOLLOW STEM AUGERS	GROUND SURFACE		385.0													
		Topsoil / ORGANICS, black. (SM) SILTY SAND, fine, brown, moist, loose.		0.1	1	SS	8										
1	CME 850 200 MM DIAM. HOLLOW STEM AUGERS	(SM) and (GP) SILTY SAND and GRAVEL, fine-grained, light brown-beige, moist, compact.		384.4	0.6												
					2	SS	34										
2	CME 850 HQ CORING	Dark grey, fine to medium grained, massive mafic intrusive, occasional chloritized joints, quartz veinlets and healed fractures, trace sulphides		383.5	1.5												
		Bedrock cored from 1.5 m depth to 7.1 m depth. For coring details see Record of Drillhole BH12-6.															
7		END OF BOREOLE		378.0	7.1												

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 12/07/12 DATA INPUT:

Bentonite

(Elev. 381.99 m asl)

Silica Sand

Screen

- Riser pipe stick-up = 0.9 m.
- Well pipe diameter = 0.05 m.
- Water level measured on June 27, 2012 (3.918) m btp)

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF DRILLHOLE: BH12-6

SHEET 1 OF 1

LOCATION: N 5266757.0 ; E 429846.0

DRILLING DATE: APRIL 29, 2012

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 850

DRILLING CONTRACTOR: Marathon Drilling

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	COLOUR % RETURN	RECOVERY		R.Q.D. %	FRACT. INDEX METRES	DISCONTINUITY DATA			HYDRAULIC CONDUCTIVITY			Diameter Point Load (MPa)	RMC -Q' AVG.	NOTES WATER LEVELS INSTRUMENTATION					
							FLUSH	TOTAL CORE %			SOLID CORE %	B Angle	DIP w/ ZL CORE AXIS	TYPE AND SURFACE DESCRIPTION	Jr	Ja				Jn	k, cm/s	10 ⁰	10 ¹	10 ²
								FLUSH			TOTAL CORE %													
		TOP OF BEDROCK		383.51																				
2	CME 850 HQ CORING	Dark grey, fine to medium grained, massive mafic intrusive, occasional chloritized joints, quartz veinlets and healed fractures, trace sulphides		1.50	1	GREY 100%													Bentonite (Elev. 381.99 m asl) Silica Sand Screen					
3				2	GREY 100%																			
4				3	GREY 100%																			
5				4	GREY 100%																			
6				5	GREY 100%																			
7		END OF DRILLHOLE		378.0															- Riser pipe stick-up = 0.9 m. - Well pipe diameter = 0.05 m. - Water level measured on June 27, 2012 (3.918) m btp)					
8				7.1																				
9																								
10																								
11																								

SUD-RCK 12-1192-0010.GPJ GAL-MISS.GDT 12/07/12 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

PROJECT: 12-1192-0010 / 6000 / 6010

RECORD OF DRILLHOLE: BH12-BULK1

SHEET 1 OF 1

LOCATION: N 5266431.0 ; E 429392.0

DRILLING DATE: APRIL 25, 2012

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 850

DRILLING CONTRACTOR: Marathon Drilling

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	COLOUR FLUSH	RECOVERY		R.Q.D. %	FRACT. INDEX METRES	DISCONTINUITY DATA			HYDRAULIC CONDUCTIVITY			Diameter Point Load Index (MPa)	RMC -Q' AVG.	NOTES WATER LEVELS INSTRUMENTATION		
							TOTAL CORE %	SOLID CORE %			B Angle	DIP W/EL CORE AXIS	Ir	Ja	Ja	10 ⁰				10 ¹	10 ²
							80000000	80000000			000000	000000	000000	000000	000000	000000				000000	000000
0		TOP OF BEDROCK		393.82																	
0		Medium to dark grey, medium grained, massive felsic intrusive (TONALITE), chloritized joints, quartz veinlets and healed fractures throughout, numerous irregular cross-cutting mafic dykes with trace sulfides throughout		0.00																	
1					1	GREY	100%														
2					2	GREY	100%											Bentonite (Elev. 392.25 m asl)			
3					3	GREY	100%														
4	CME 850 HQ CORING				4	GREY	100%														
5					5	GREY	100%											Silica Sand			
6					6	GREY	100%														
7					7	GREY	100%											Screen			
8		END OF BOREHOLE		386.6														- Riser pipe stick-up = 0.9 m. - Well pipe diameter = 0.05 m. - Water level measured on June 27, 2012 (2.467 m btp)			
9				7.2																	
10																					

SUD-RCK 12-1192-0010.GPJ GAL-MISS.GDT 12/07/12 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO/CW

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-01R

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 13 Aug 12

Location: Pit Overburden

Total Depth: 10.89 m

Date Completed: 14 Aug 12

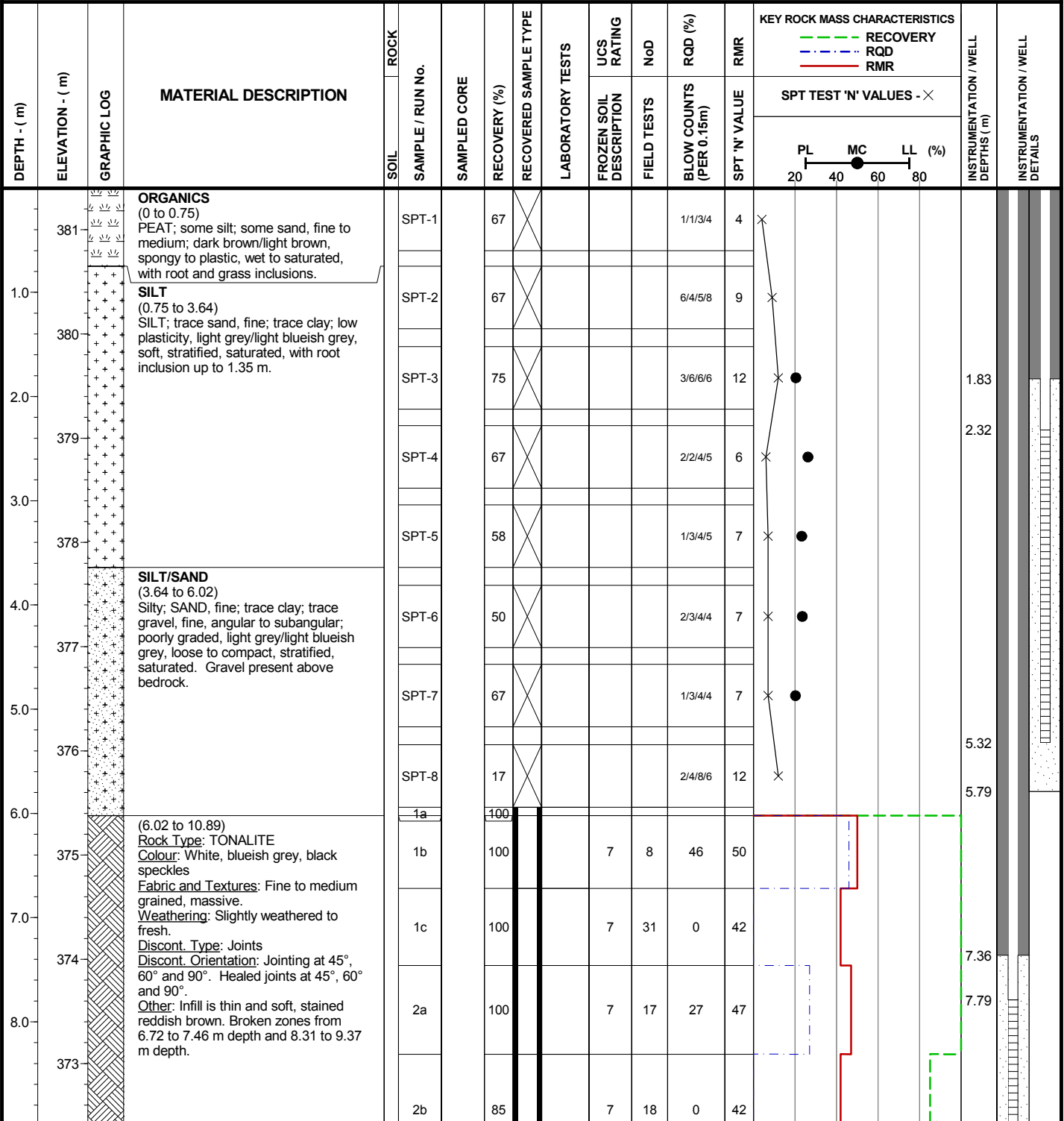
Coordinates: 5,267,408 N, 429,890 E

Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM



I:\11010049701\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILLHOLE LOGS 2013-01-02.GPJ
I:\11010049701\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB DRILLHOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS		BENTONITE GROUT
	SLOUGH		WELL		SAND		BENTONITE PELLETS		

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.1

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-01R

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 13 Aug 12

Location: Pit Overburden

Total Depth: 10.89 m

Date Completed: 14 Aug 12

Coordinates: 5,267,408 N, 429,890 E

Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	PL			MC
372																			
10.0						3	100			15	16	68	76						
371																			
11.0			End of Drillhole: 10.89 m																
370			The drillhole is located on north side of lake roughly 50 m from shoreline with grass and alders covering the ground. Wet to saturated at surface.																
12.0			HQ coring advanced to 10.89 m depth.																
369			Two monitoring wells (one in overburden, one in bedrock) installed at this location.																
13.0			On August 15, 2012 the water level in the shallow well was 0.23 m below surface and in the deep well was 0.3 m below surface.																
368																			
14.0																			
367																			
15.0																			
366																			
16.0																			
365																			
17.0																			
364																			

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILLHOLE LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB - DRILLHOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- BENTONITE GROUT
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.1

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-02R

Page: 1 of 2

Contractor: Marathon/Chenier Drilling

Drill Type: JKS 3000

Date Started: 6 Sep 12

Location: Pit Overburden

Total Depth: 12.32 m

Date Completed: 6 Sep 12

Coordinates: 5,267,309 N, 430,041 E

Elevation: 378 m

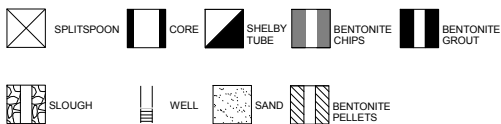
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY		
														PL MC LL (%) 20 40 60 80				
			WATER (0 to 2.74) Overburden begins 2.74 m below water surface.															
1.0	377																	
2.0	376																	
3.0	375		ORGANICS (2.74 to 6.17) ORGANIC SILT; dark brown/grey, plastic, fibrous to amorphous, saturated. Colour changes from brown to grey at 5.56 m.			SPT-1	50	X				0/0/0	0	X				
4.0	374																	
5.0	373																	
6.0	372					SPT-2	75	X				0/0/0	0	X				
6.5						SPT-3	50	X				0/0/0	0	X				
7.0	371		SILT/CLAY (6.17 to 7.24) SILT; AND CLAY; some sand, fine; medium to low plasticity, grey, firm to stiff, stratified, saturated.			SPT-4	50	X				0/0/5/6	5	X				
7.5																		
8.0																		
8.5	370		SILT (7.24 to 8.5) SILT; some sand, fine; low plasticity, grey, stiff, stratified, saturated.			SPT-5	30	X				0/9/6/6	15	X				

SYMBOLS:



IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.2

I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILLHOLE LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-02R

Page: 2 of 2

Contractor: Marathon/Chenier Drilling

Drill Type: JKS 3000

Date Started: 6 Sep 12

Location: Pit Overburden

Total Depth: 12.32 m

Date Completed: 6 Sep 12

Coordinates: 5,267,309 N, 430,041 E

Elevation: 378 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL		
9.0	369		SAND (8.5 to 9.4) SAND, fine; trace silt; poorly graded, grey, compact, stratified, saturated.			SPT-6	42					6/5/7/7	12					
10.0	368		SAND/SILT (9.4 to 10.53) Silty; SAND, fine; trace gravel, fine, angular; poorly graded, very dense, massive, saturated.			SPT-7	50					10/18/52/47	70					
11.0	367		(10.53 to 12.32) Rock Type: DIORITE Colour: White with black speckles Fabric and Textures: Medium grained, massive Weathering: Slightly weathered Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45° and 90°. Healed joints at 30°, 45° and 90°. Other: Infill is thick, soft and grey or thick, hard and greenish white.			1	100			4	15	65	54					
12.0	366		End of Drillhole: 12.32 m															
13.0	365		The drillhole is located on Cote Lake located approx 80 m south from outlet to Three Ducks Lake. All depths measured from water surface. Standard Penetration Testing (SPT) conducted with 72 lb manual hammer. BQ coring advanced to 12.32 m depth.															
14.0	364																	
15.0	363																	
362																		

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SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- BENTONITE GROUT
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.2

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-03R

Page: 1 of 3

Contractor: Marathon/Chenier Drilling

Drill Type: JKS 3000

Date Started: 5 Sep 12

Location: Pit Overburden

Total Depth: 25.16 m

Date Completed: 5 Sep 12

Coordinates: 5,267,179 N, 430,280 E

Elevation: 376 m

Logged by: RWT

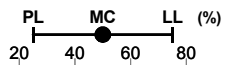
Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY			
375			WATER (0 to 4.92) Overburden begins 4.92 m below water surface.																
370			ORGANICS (4.92 to 10.15) ORGANIC SILT; dark brown, plastic, amorphous, saturated.	SPT-1		37						0/0/0/0	0	×					
369				SPT-2		0							0/0/0/0	0	×				
367				SPT-3		33							0/0/0/0	0	×				
366				SPT-4		54							0/0/0/0	0	×				

KEY ROCK MASS CHARACTERISTICS
 --- RECOVERY
 --- RQD
 --- RMR

SPT TEST 'N' VALUES - X



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SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- BENTONITE GROUT
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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CÔTÉ GOLD PROJECT

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.3

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-03R

Page: 2 of 3

Contractor: Marathon/Chenier Drilling

Drill Type: JKS 3000

Date Started: 5 Sep 12

Location: Pit Overburden

Total Depth: 25.16 m

Date Completed: 5 Sep 12

Coordinates: 5,267,179 N, 430,280 E

Elevation: 376 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									PL	MC	LL (%)		
365	11.0		SILT/CLAY (10.15 to 12.88) SILT AND CLAY; trace sand, fine; low to medium plasticity, grey, very soft, stratified, saturated.															
364	12.0			SPT-5		42	X					0/0/0/0	0	X				
363	12.88			SPT-6		83	X					0/0/0/0	0	X	— ●			
362	13.0		SAND/SILT (12.88 to 16.35) Silty; SAND, fine; trace clay; poorly graded, grey, compact, stratified, saturated. Sand flows and heaves into casing at 14.5 m depth.	SPT-7		38	X					0/3/8/10	11	X				
361	14.0			SPT-8		17	X					7/8/6/9	14	X				
360	15.0			SPT-9		58	X					4/7/9/10	16	X	●			
359	16.0		TILL (16.35 to 21.68) GRAVEL, fine to coarse, angular; poorly graded, pink, white, black, compact to very dense, massive, saturated.	SPT-10		56	X					0/12/12/14	24	X				
358	17.0			SPT-11		0	X					6/9/6/8	15	X				
357	18.0			1		16	█											
356	19.0																	

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SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- BENTONITE GROUT
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

Knight Piésold
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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.3

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-03R

Page: 3 of 3

Contractor: Marathon/Chenier Drilling

Drill Type: JKS 3000

Date Started: 5 Sep 12

Location: Pit Overburden

Total Depth: 25.16 m

Date Completed: 5 Sep 12

Coordinates: 5,267,179 N, 430,280 E

Elevation: 376 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL		
355	21.0		TILL (16.35 to 21.68) GRAVEL, fine to coarse, angular; poorly graded, pink, white, black, compact to very dense, massive, saturated.	SPT-12		27	X					20/R/-/-	R					
354	22.0		(21.68 to 25.16) Rock Type: HEMATITE ALTERED DIORITE Colour: Pink, grey, and black with white speckles. Fabric and Textures: Medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45°, 60°. Healed joints at at 30°, 45°, 60°. Other: Infill is thin soft and grey or stained black.	2a		67												
353	23.0			2b		100			7	7	100	65						
352	24.0			3		100			7	7	77	60						
351	25.0																	
350	26.0		End of Drillhole: 25.16 m The drillhole is located on Cote Lake approximately 100 m southwest of the boat launch. All depths measured from water surface.															
349	27.0		Standard Penetration Testing (SPT) conducted with 72 lb manual hammer. BQ coring advanced to 25.16 m.															
348	28.0																	
347	29.0																	
346																		

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SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS		BENTONITE GROUT
	SLOUGH		WELL		SAND		BENTONITE PELLETS		

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

Knight Piésold
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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.3

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-05R

Page: 1 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 14 Mar 12

Location: Pit Overburden

Total Depth: 13.72 m

Date Completed: 18 Mar 12

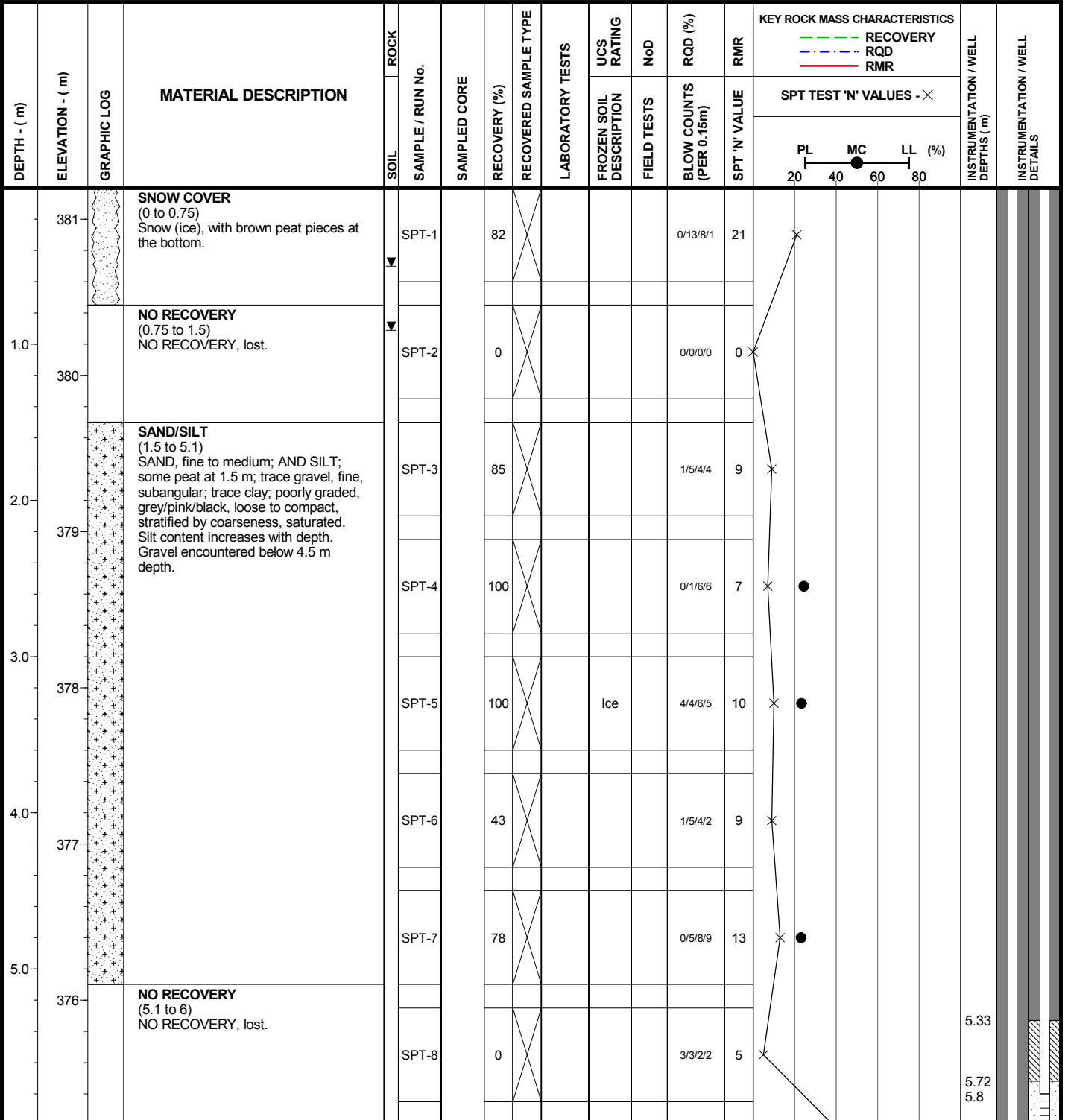
Coordinates: 5,266,490 N, 429,945 E

Elevation: 381 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH



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FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

SPLITSPOON
 CORE
 SHELBY TUBE
 BENTONITE CHIPS
 SLOUGH
 WELL
 SAND
 BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.1

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-05R

Page: 2 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 14 Mar 12

Location: Pit Overburden

Total Depth: 13.72 m

Date Completed: 18 Mar 12

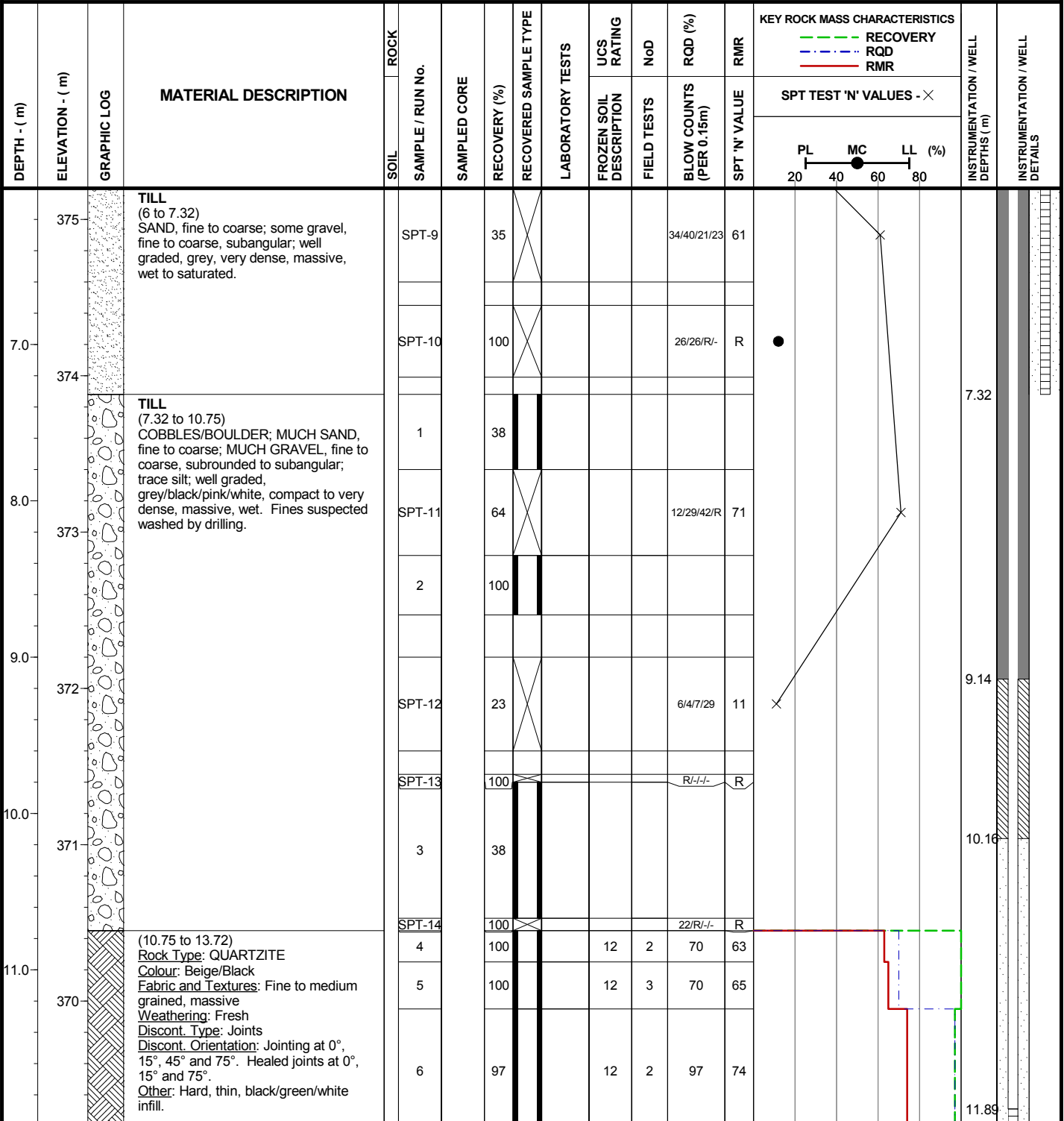
Coordinates: 5,266,490 N, 429,945 E

Elevation: 381 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.1

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Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-05R

Page: 3 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 14 Mar 12

Location: Pit Overburden

Total Depth: 13.72 m

Date Completed: 18 Mar 12

Coordinates: 5,266,490 N, 429,945 E

Elevation: 381 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS		
369						7	100			12	3	70	62					
						8	100			12	3	56	65					
368						9	100			12	11	72	63					
			End of Drillhole: 13.72 m															
367			Drillhole located near the bank of a creek, at the foot of a hill. Some boulders present at surface. HQ coring advanced to 13.72 m depth. Two monitoring wells installed at this location. Casing in the deep monitoring well was not removed. It remains in the ground to a depth of 10.67 m. On March 18, 2012 the water level in the shallow well was 0.48 m below surface and in the deep well was 0.89 m below surface.															
366																		
365																		
364																		

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FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nx - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS
	SLOUGH		WELL		SAND		BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.1

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-06R

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 22 Aug 12

Location: Pit Overburden

Total Depth: 6.12 m

Date Completed: 23 Aug 12

Coordinates: 5,266,386 N, 429,963 E

Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									FROZEN SOIL DESCRIPTION	BLOW COUNTS (PER 0.15m)	SPT 'N' VALUE		
381			ORGANICS (0 to 0.75) PEAT; some organic silt, dark brown/greenish brown, spongy, fibrous, wet, with root inclusions.			SPT-1	42	X				1/0/0/1	0	X				
380			SILT (0.75 to 2.26) SILT; trace sand, fine, trace clay; low plasticity, grey, firm, massive, saturated.			SPT-2	50	X				2/6/6/7	12	X				
379			(2.26 to 6.12) Rock Type: DIORITE Colour: Black, blueish black Fabric and Textures: Fine to medium grained, massive Weathering: Fresh to slightly weathered Discont. Type: Joints Discont. Orientation: Jointing at 0°, 45°, 60° and 90°. Healed Joints at 0°, 45°, 60° and 90°. Other: Small broken zone from 3.80 to 3.95 m depth, infill is soft, thin and blueish grey.			1	100			7	11	47	54					
378						2	100			7	25	50	55					
377						3	100			15	8	84	68					
376																		
375			End of Drillhole: 6.12 m															
374			The drillhole is located approx. 30 m from the streams edge. The area is wet and covered with grasses, alder and spruce trees.															
373			HQ coring advanced to 6.12 m depth.															

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SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- BENTONITE GROUT
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.4

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-07R

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 25 Aug 12

Location: Pit Overburden

Total Depth: 10.15 m

Date Completed: 26 Aug 12

Coordinates: 5,265,999 N, 429,588 E

Elevation: 385 m

Logged by: RWT

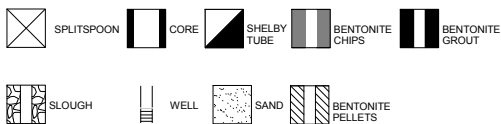
Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL		
385			NO RECOVERY (0 to 1.52) NO RECOVERY, suspect peat		SPT-1	0						1/1/1/1	2	X				
384			ORGANICS (1.52 to 1.92) PEAT; some clay; some silt; dark brown/light brown, spongy to plastic, fibrous, saturated, with root and weed inclusions.		SPT-2	0						1/0/0/0	0	X				
383			SILT (1.92 to 3.09) SILT; some sand, fine; some clay; low plasticity, grey, firm, massive, saturated.		SPT-3	58						0/0/2/5	2	X				
382			SAND (3.09 to 4.57) SAND, fine to medium; trace silt, poorly graded, pink/black/green/white, loose, massive, saturated.		SPT-4	67						4/6/8/6	14	●				
381			SAND/SILT (4.57 to 6.38) SAND, fine to coarse; AND SILT; trace gravel, fine, angular, well graded, grey, loose to dense, massive, saturated.		SPT-5	83						1/1/2/6	3	●				
380					SPT-6	25						0/4/1/2	5	X				
379					SPT-7	42						3/2/2/8	4	●				
378			TONALITE BRECCIA Rock Type: TONALITE BRECCIA Colour: Light greenish white Fabric and Textures: Fine to medium grained, massive. Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 0°, 45°, 60° and 90°. Healed joints at 0°, 45°, 60° and 90°. Other: Infill is hard, white and thin or	1		100			12	6	92	72		●				

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SYMBOLS:



**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.5

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-07R

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 25 Aug 12

Location: Pit Overburden

Total Depth: 10.15 m

Date Completed: 26 Aug 12

Coordinates: 5,265,999 N, 429,588 E

Elevation: 385 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
377			stained black/green, cores appear to have high quartz content and small orangey gold mineralization.			2	100			12	2	100	74						
376							3	100			12	1	100	74					
375			End of Drillhole: 10.15 m The drillhole location is wet, soft and covered with cattails, grasses, alder and birch trees. HQ coring advanced to 10.15 m depth. On August 26, 2012 the water level was 0.13 m below surface.																
374																			
373																			
372																			
371																			
370																			

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SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- BENTONITE GROUT
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.5

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-08R

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 15 Aug 12

Location: Pit Overburden

Total Depth: 9.37 m

Date Completed: 16 Aug 12

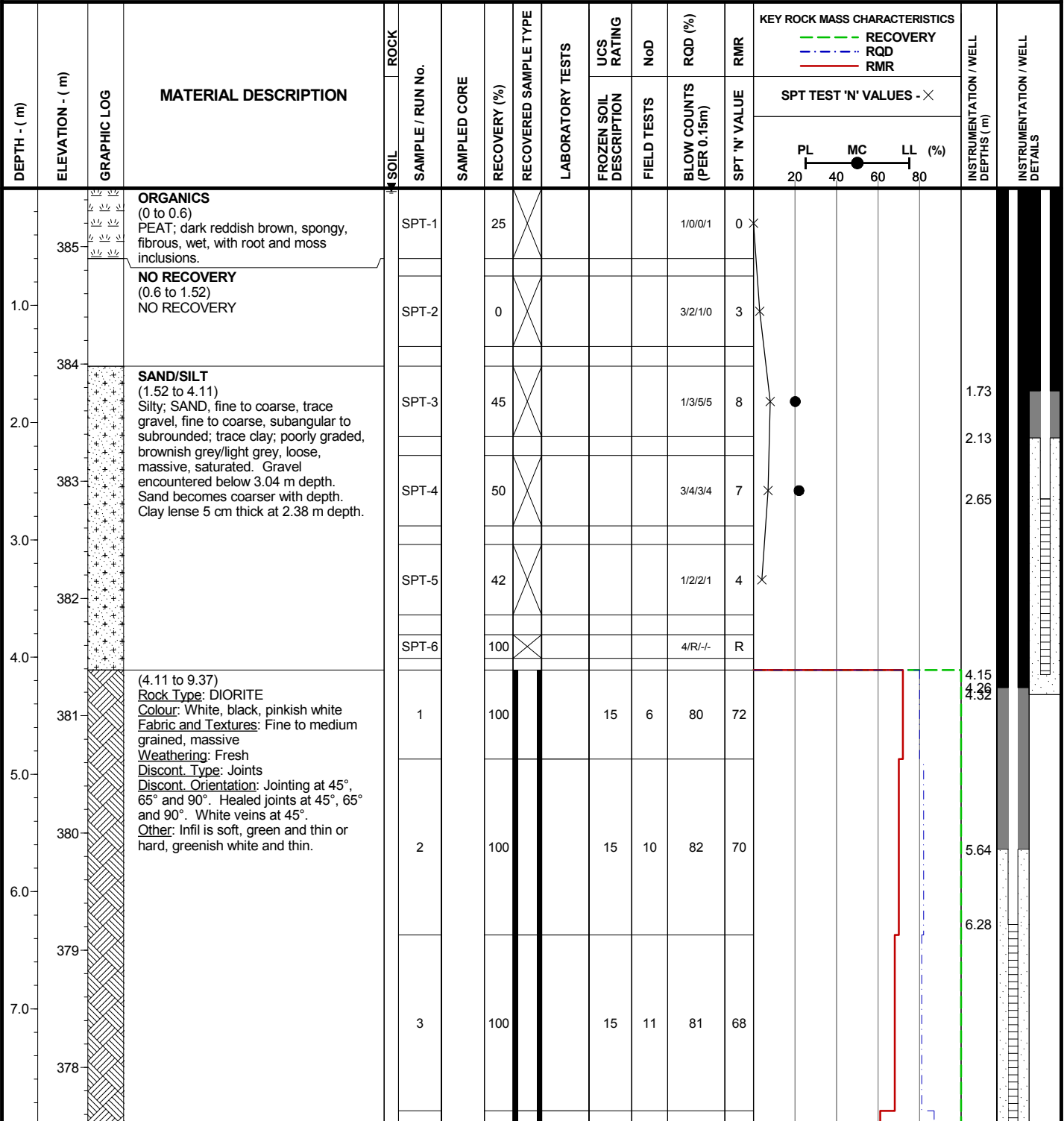
Coordinates: 5,266,025 N, 429,456 E

Elevation: 386 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- BENTONITE GROUT
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1 Ref. No. 4 Rev. 0

FIGURE A2.6

I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILL HOLE LOGS 2013-01-02.GPJ
I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, DRILL HOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-08R

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 15 Aug 12

Location: Pit Overburden

Total Depth: 9.37 m

Date Completed: 16 Aug 12

Coordinates: 5,266,025 N, 429,456 E

Elevation: 386 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	PL			MC
377						4	100			15	12	87	61						
9.0			End of Drillhole: 9.37 m																
376			The drillhole is located 40 m south of the intersection of the base of the slope with the wetlands. Area is covered with alders and grasses. Peat is soft.																
375			HQ coring advanced to 9.37 m depth.																
374			Two monitoring wells (one in overburden, one in bedrock) installed at this location.																
373			On August 17, 2012 the water level in the shallow well was 0.35 m below surface and in the deep well was 0.285 m below surface.																
372																			
371																			
370																			

I:\11010049701\1\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILLHOLE LOGS 2013-01-02.GPJ
I:\11010049701\1\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, DRILLHOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

SYMBOLS:				IAMGOLD CORPORATION CÔTÉ GOLD PROJECT 			Project No. NB101-497/1	Ref. No. 4	Rev. 0

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-09

Page: 1 of 1

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 21 Mar 12

Location: Pit Overburden

Total Depth: 5.25 m

Date Completed: 21 Mar 12

Coordinates: 5,266,223 N, 429,065 E

Elevation: 388 m

Logged by: RSM

Inclination: -90

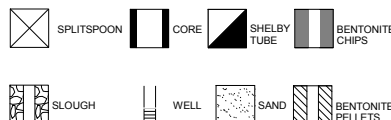
Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	SPT TEST 'N' VALUES - X	RECOVERY		
388			BOULDERS (0 to 0.7) BOULDER (diabase); fine grained, black.														
387	1.0		TILL (0.7 to 2.75) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; well graded, grey/dark brown/black/white, dense, stratified, wet.	1		52											
386	2.0			SPT-1		67					12/24/24/21	48					
385	3.0		(2.75 to 5.25) Rock Type: DIORITE Colour: Black Fabric and Textures: Medium grained, few phenocrysts, quartz veins at depth Weathering: Slightly weathered to fresh Discont. Type: Joints Discont. Orientation: Jointing at 0°, 20°, 30°, 45° and 80°. Healed joints at 0°, 20°, 30°, 40°, 45° and 80°. Other: Infill is hard and green, soft and black approximately 2 mm thick.	SPT-2		71					24/40/R/-	R					
384	4.0			2		100			7	7	0	40					
383	5.0			3		100			12	10	78	66					
382	6.0			4		100			12	4	93	73					
			End of Drillhole: 5.25 m The drillhole location is on a mid-slope of bedrock outcrops. It is covered with some organics and surrounded by red pine. HQ coring advanced to 5.25 m depth.														

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:



TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.2

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-10

Page: 1 of 1

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 20 Mar 12

Location: Pit Overburden

Total Depth: 4.29 m

Date Completed: 21 Mar 12

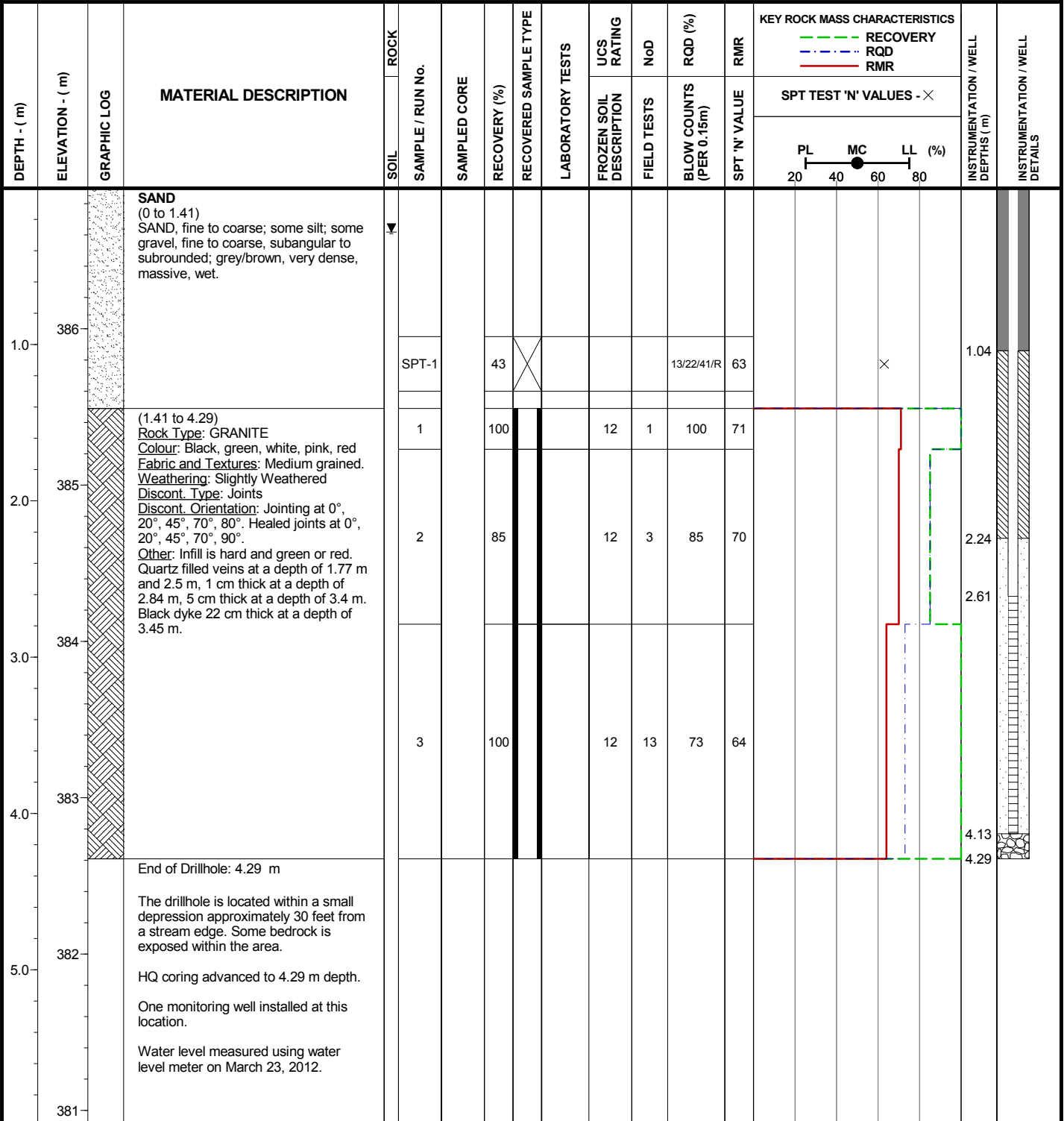
Coordinates: 5,266,759 N, 429,117 E

Elevation: 387 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nx - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- NH - ICE WITH SOIL INCLUSIONS
- NI - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.3

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-11

Page: 1 of 1

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 15 Mar 12

Location: Pit Overburden

Total Depth: 3.25 m

Date Completed: 20 Mar 12

Coordinates: 5,267,107 N, 429,320 E

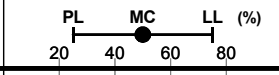
Elevation: 382 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															PL	MC	LL (%)			
382			ORGANICS (0 to 0.6) PEAT; trace silt; trace gravel, fine to coarse, angular; greyish brown/dark brown, spongy, fibrous, saturated, with root inclusions.			SPT-1		33					1/3/7/5	10						
1.0	381		SAND (0.6 to 1.2) SAND, fine to coarse; trace silt; trace gravel, fine, angular; poorly graded, light brown, compact, massive, saturated.			SPT-2		52					7/8/9/14	17						
2.0	380		TILL (1.2 to 2.05) Gravelly, fine to coarse, angular; SAND, fine to coarse; some silt; some cobbles, rounded; well graded, light brown/white/black/pink, very dense, massive, saturated.			SPT-3		68					11/12/39/R	51						
				1a				100												
3.0	379		(2.05 to 3.25) Rock Type: GRANITE Colour: Black, white Fabric and Textures: Medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 20° and 45°. Healed joints at 0° and 20°.			1b		100		12	2	100	78							
4.0	378		End of Drillhole: 3.25 m The drillhole is located at the foot of a gentle slope. Large poplar, balsam and spruce trees surround the site. Significant surface runoff is occurring due to snow melt. HQ coring advanced to 3.25 m depth. Cuttings reporting to surface water bodies could not be controlled. Drilling was stopped at a depth of 3.25 m.																	



I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nx - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- NH - ICE WITH SOIL INCLUSIONS
- NI - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS
	SLOUGH		WELL		SAND		BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.4

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-12

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 9 Mar 12

Location: Pit Overburden

Total Depth: 16.11 m

Date Completed: 10 Mar 12

Coordinates: 5,266,886 N, 429,513 E

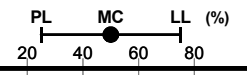
Elevation: 381 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									FROZEN SOIL DESCRIPTION	BLOW COUNTS (PER 0.15m)	SPT 'N' VALUE		
381			ORGANICS (0 to 0.75) PEAT; brown, fibrous, frozen (I + S).		SPT-1	67	X		I + S			0/0/6/0	6	X				
380			ORGANICS (0.75 to 5.8) PEAT, brown, spongy, fibrous		SPT-2	0	X					0/0/0/0	0	X				
379					SPT-3	0	X					0/0/0/0	0	X				
378					SPT-4	40	X					0/0/0/0	0	X				
377					SPT-5	63	X					0/0/0/0	0	X				
376					SPT-6	0	X					0/0/0/0	0	X				
375			SILT (5.8 to 12) SILT; trace sand, fine; trace clay; non-plastic, poorly graded, grey, soft, massive, wet.		SPT-7	67	X					0/0/0/0	0	X				
374					SPT-8	77	X					0/0/0/0	0	X				
373					SPT-9	37	X					4/4/3/3	7	X				
					SPT-10	38	X					0/0/7/0	7	X				
					SPT-11	40	X					0/0/2/3	2	X				
					SPT-12	35	X					0/4/5/6	9	X				



I:\11010049\701A\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.5

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-12

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 9 Mar 12

Location: Pit Overburden

Total Depth: 16.11 m

Date Completed: 10 Mar 12

Coordinates: 5,266,886 N, 429,513 E

Elevation: 381 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								FROZEN SOIL DESCRIPTION	BLOW COUNTS (PER 0.15m)	SPT 'N' VALUE		
372			SILT (5.8 to 12) SILT; trace sand, fine; trace clay; non-plastic, poorly graded, grey, soft, massive, wet.		SPT-13	80					3/6/4/2	10					
371					SPT-14	47					0/0/5/9	5					
370					SPT-15	60					6/4/7/8	11					
369			SILT/SAND (12 to 12.6) Sandy, fine to medium; SILT; well graded, non-plastic, grey, soft, wet.		SPT-16	47					4/7/7/8	14					
368			TILL (12.6 to 12.93) GRAVEL, coarse; poorly graded, white/pink/black, very dense, massive, saturated. Suspected washed by drilling.		SPT-17	43					10/12/6/4	18					
367			(12.93 to 16.11) Rock Type: GRANITE Colour: Grey/blue Fabric and Textures: Fine to medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 15°, 45° and 65°. Other: Infill is hard and black.		SPT-18	31					R	R					
366				1		100			4	6	76	57					
365				2		92			4	7	53	55					
364				3		100			4	6	86	61					
363				4		100			4	8	54	55					
362			End of Drillhole: 16.11 m The drillhole location is on the edge of a bog, downhill of a fairly significant hill covered in tall trees. NQ coring advanced to 16.11 m depth.														

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.5

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP_LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-13

Page: 1 of 1

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 15 Mar 12

Location: Pit Overburden

Total Depth: 5.87 m

Date Completed: 15 Mar 12

Coordinates: 5,266,686 N, 429,371 E

Elevation: 382 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
381			TILL (0 to 2.32) GRAVEL, fine to coarse, angular; some sand, fine to coarse; some silt; well graded, grey/brown, loose to dense, massive, saturated.		SPT-1		20					2/2/11/9	13					
380					SPT-2		20					4/7/12/17	19					
379			(2.32 to 3.37) Rock Type: DIABASE Colour: Blueish black Fabric and Textures: Fine to medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 0°, 45° and 90°. Other: Infill is soft grey and hard staining. Rubble zone from 2.87 - 2.97 m.		1		100		7	6	58		58					1.98
378			(3.37 to 5.87) Rock Type: GRANITE Colour: White, pink, black spots Fabric and Textures: Medium to coarse grained, massive Weathering: Slightly weathered Discont. Type: Joints Discont. Orientation: Jointing at 0°, 45° and 90°. Other: Infill is soft grey and hard staining. Rubble zone from 4.37 - 5.87 m.		2		100		7	37	37		47					3.5
377					3		100		7	45	31		49					3.93
376																		5.45
375			End of Drillhole: 5.87 m The drillhole is located at the outer extent of a bog immediately at the foot of a hill. HQ coring advanced to 5.87 m depth. One monitoring well installed at this location. On March 23, 2012 the water level was measured using a water level meter and was 0.49 m above ground.															5.87

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.6

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-14

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 11 Mar 12

Location: Pit Overburden

Total Depth: 19.72 m

Date Completed: 14 Mar 12

Coordinates: 5,266,660 N, 429,723 E

Elevation: 381 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
			SNOW COVER (0 to 0.75) SNOW (ice).		SPT-1		72	X		Ice		0/4/7/0	11					
	380		NO RECOVERY (0.75 to 2.25) NO RECOVERY, lost.		SPT-2		0	X				0/0/0/0	0					
2.0					SPT-3		0	X				0/0/0/0	0					
	378		ORGANICS (2.25 to 6.75) PEAT; brown, spongy to firm, fibrous, saturated.		SPT-4		17	X				0/0/0/0	0					
					SPT-5		67	X				0/0/0/0	0					
4.0					SPT-6		100	X				0/0/0/0	0					
	376				SPT-7		57	X				0/0/0/0	0					
					SPT-8		67	X				0/0/0/0	0					
6.0					SPT-9		55	X				0/0/0/0	0					
	374		SILT (6.75 to 13.5) SILT; trace sand, fine; trace clay; poorly graded, non-plastic, grey, stiff, saturated.		SPT-10		100	X				0/1/5/6	6					
					SPT-11		73	X				0/1/2/2	3					
8.0					SPT-12		63	X				4/4/2/2	6					
	372				SPT-13		40	X				1/2/4/2	6					
10.0					SPT-14		67	X				0/3/4/3	7					
	370				SPT-15		42	X				4/6/6/7	12					
					SPT-16		63	X				3/5/4/4	9					

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.7

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-PO-14

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 11 Mar 12

Location: Pit Overburden

Total Depth: 19.72 m

Date Completed: 14 Mar 12

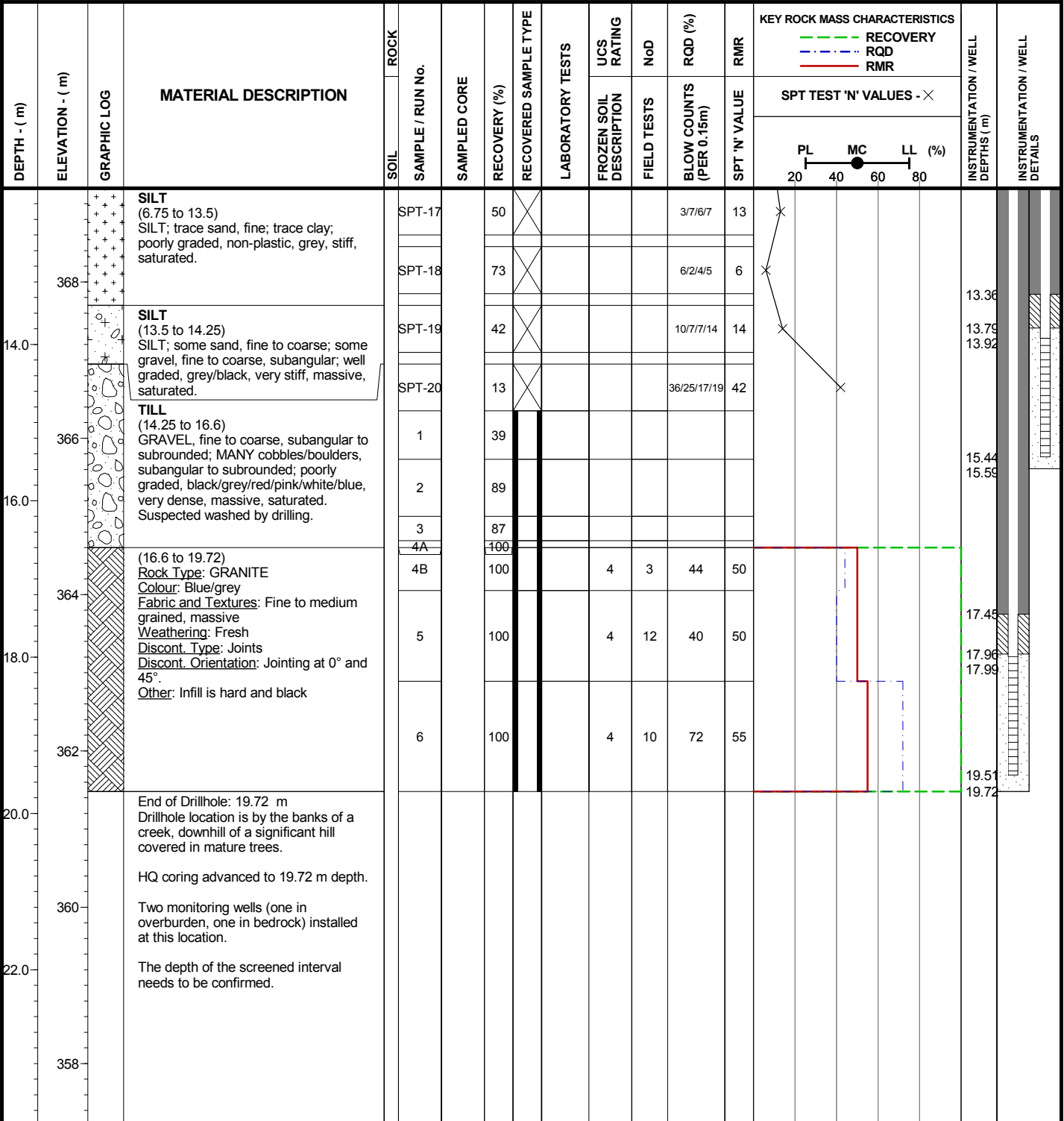
Coordinates: 5,266,660 N, 429,723 E

Elevation: 381 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- [X symbol] SPLITSPOON
- [Core symbol] CORE
- [Shelby Tube symbol] SHELBY TUBE
- [Bentonite Chips symbol] BENTONITE CHIPS
- [Slough symbol] SLOUGH
- [Well symbol] WELL
- [Sand symbol] SAND
- [Bentonite Pellets symbol] BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.7

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-15

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 26 Aug 12

Location: Pit Overburden

Total Depth: 9.22 m

Date Completed: 27 Aug 12

Coordinates: 5,265,814 N, 429,521 E

Elevation: 386 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS		
	385		ORGANICS (0 to 0.75) PEAT, dark reddish brown, spongy, fibrous, wet, with root and moss inclusions.		SPT-1		8	X				1/0/1/0	1	X				
	385		NO RECOVERY (0.75 to 2.28) NO RECOVERY		SPT-2		0	X				1/0/0/0	0	X				
	384				SPT-3		0	X				1/0/0/0	0	X				
	383		SILT (2.28 to 4.3) SILT, some sand, fine; trace clay, non-plastic; bluish grey, firm to stiff, massive, saturated.		SPT-4		67	X				9/10/6/7	16	X				
	382				SPT-5		50	X				5/6/6/6	12	X				
	381		SAND (4.3 to 5.68) SAND, fine to coarse; some silt; trace gravel, fine, angular; well graded, grey, loose, massive, saturated.		SPT-6		58	X				4/7/8/2	15	X				
	381				SPT-7		17	X				3/3/3/3	6	X				
	380				SPT-8		58	X				0/R/-/-	R					
	380		(5.68 to 9.22) Rock Type: HEMATITE ALTERED DIORITE Colour: Pink, white, black Fabric and Textures: Fine to medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 45°, 75°, 90°. Healed joints at 45°, 75°, 90°. Other: Infill is soft, thin and dark grey or hard, thin and white or stained dark grey.		1		100			4	3	80	61					
	379				2		100			4	4	100	64					
	378				3		100			12	1	100	72					

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILL HOLE LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, DRILL HOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

SYMBOLS:

SPLITSPOON
 CORE
 SHELBY TUBE
 BENTONITE CHIPS
 BENTONITE GROUT
 SLOUGH
 WELL
 SAND
 BENTONITE PELLETS

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1 Ref. No. 4 Rev. 0

FIGURE A2.7

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-15

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 26 Aug 12

Location: Pit Overburden

Total Depth: 9.22 m

Date Completed: 27 Aug 12

Coordinates: 5,265,814 N, 429,521 E

Elevation: 386 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
9.0	377		End of Drillhole: 9.22 m			4	100			15	3	96	75						
10.0	376		The drillhole is located on the northwest side of a small lake with moss and small shrub cover. HQ coring advanced to 9.22 m depth. On August 27, 2012 the water level was 0.21 m below surface.																
11.0	375																		
12.0	374																		
13.0	373																		
14.0	372																		
15.0	371																		
	370																		

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I:\11010049701\1\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, DRILLHOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- BENTONITE GROUT
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.7

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-16

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 27 Aug 12

Location: Pit Overburden

Total Depth: 19.81 m

Date Completed: 4 Sep 12

Coordinates: 5,265,927 N, 429,564 E

Elevation: 386 m

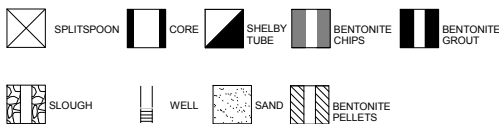
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RECOVERY	RQD			RMR
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
			NO RECOVERY (0 to 1.35) NO RECOVERY, suspect peat.			SPT-1		0	X				0/0/0/1	0	X					
						SPT-2		0	X				1/1/1/1	2	X					
	384		ORGANICS (1.35 to 4.57) Peat; some organic silt; dark to light brown, spongy to plastic, fibrous, saturated. Organic silt with shell inclusions begins at 3.34 m depth.			SPT-3		50	X				1/0/1/0	1	X					
	2.0					SPT-4		17	X				0/0/0/0	0	X					
						SPT-5		83	X				0/0/0/0	0	X					
	382					SPT-6		33	X				0/0/0/0	0	X					
	4.0					SPT-7		42	X				1/3/3/3	6	X					
			CLAY/SILT (4.57 to 5.27) CLAY; AND SILT; medium plasticity, grey, soft, massive, saturated.			SPT-8		67	X				0/2/2/3	4	X				5.34	
	380					SPT-9		67	X				2/4/0/0	4	X	●			5.95	
	6.0		SAND (5.27 to 9.9) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular; trace clay; poorly graded, grey, loose to compact, massive, saturated. Sand becomes coarser with depth.			SPT-10		50	X				6/16/11/12	27	X					
						SPT-11		42	X				10/11/14/16	25	X	●				
	378					SPT-12		42	X				5/3/0/0	3	X				8.95	
	8.0					SPT-13		50	X				2/8/6/1	14	X				9.45	
	376					SPT-14		100	X				3/35/R/-	R					9.76	
	10.0		TILL (9.9 to 16.13) GRAVEL, fine to coarse, angular to subangular; some cobbles, subangular; some sand, fine to coarse, trace silt; poorly graded, white/pink/black, dense to very dense, massive, saturated. Suspected partially washed by drilling.			SPT-15		71	X				50/66/R/-	R					10.67	
	374						1	60											11.67	

SYMBOLS:



IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/1 Ref. No. 4 Rev. 0

FIGURE A2.8

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILLHOLE LOGS 2013-01-02.GPJ I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB; DRILLHOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-16

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 27 Aug 12

Location: Pit Overburden

Total Depth: 19.81 m

Date Completed: 4 Sep 12

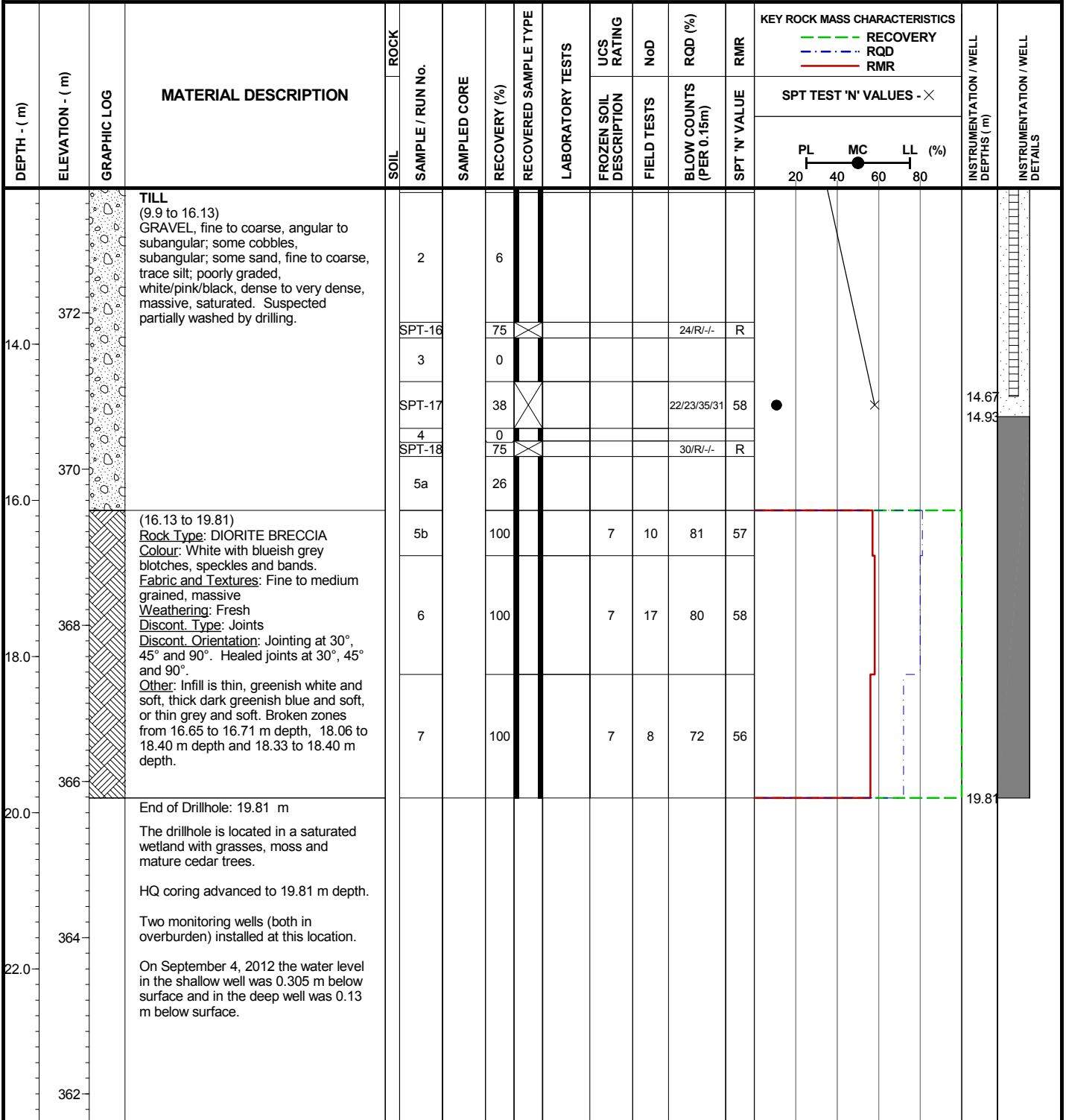
Coordinates: 5,265,927 N, 429,564 E

Elevation: 386 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM



I:\11010049701\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILL HOLE LOGS 2013-01-02.GPJ
I:\11010049701\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, DRILL HOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS		BENTONITE GROUT
	SLOUGH		WELL		SAND		BENTONITE PELLETS		

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.8

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-17

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 16 Aug 12

Location: Pit Overburden

Total Depth: 9.29 m

Date Completed: 22 Aug 12

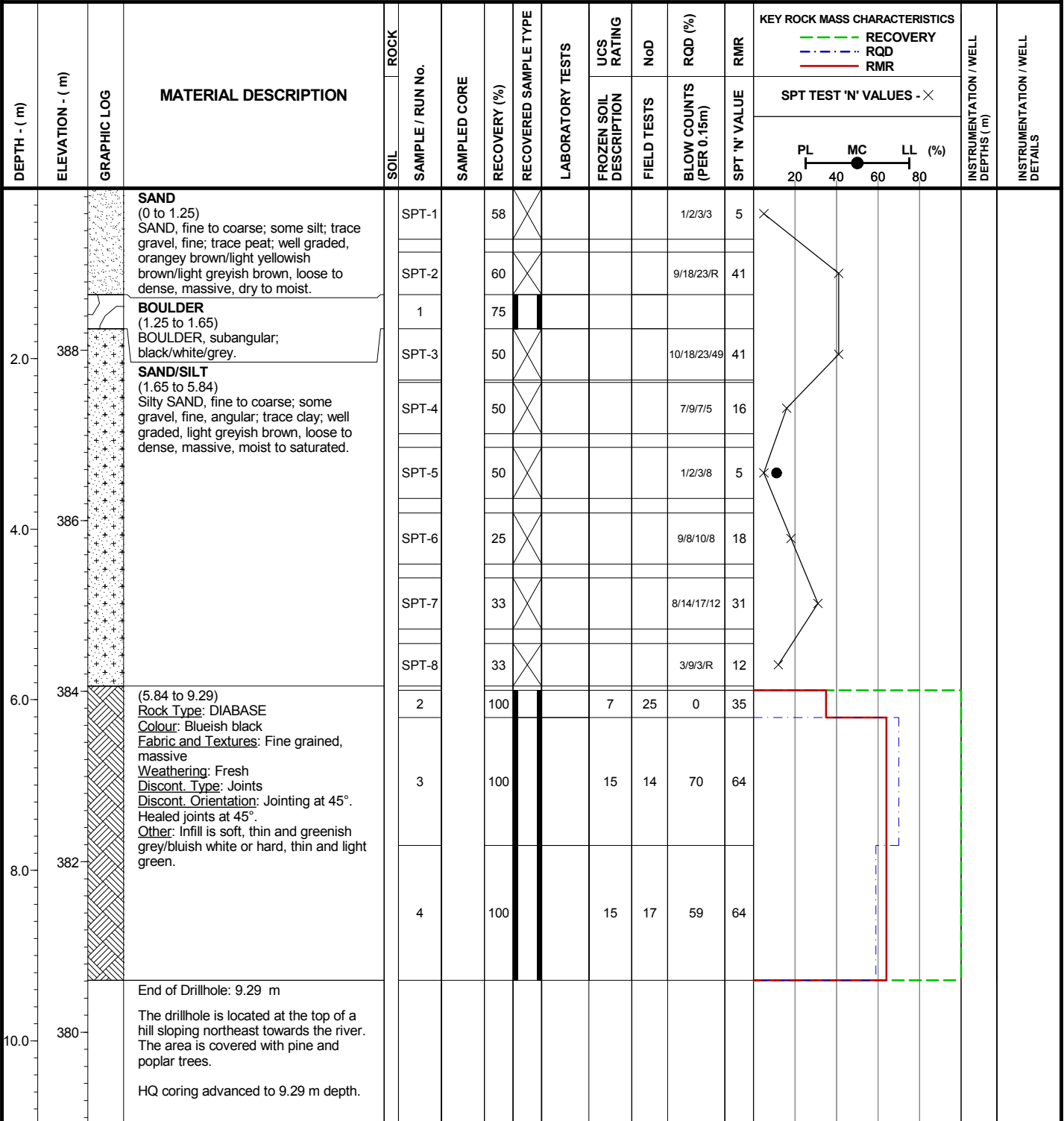
Coordinates: 5,266,168 N, 429,893 E

Elevation: 390 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM



I:\11010049701\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILL HOLE LOGS 2013-01-02.GPJ
I:\11010049701\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, DRILL HOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

SYMBOLS:

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CÔTÉ GOLD PROJECT

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.9

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-18

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 11 Aug 12

Location: Pit Overburden

Total Depth: 4.69 m

Date Completed: 11 Aug 12

Coordinates: 5,266,664 N, 430,302 E

Elevation: 390 m

Logged by: RWT










Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL		
	390		ORGANICS (0 to 0.05) PEAT: some sand, fine to coarse; dark greyish brown/light yellowish brown, spongy, fibrous, moist, with root inclusions.		SPT-1		37	X				1/1/3/7	4	X				
	389		SAND/SILT (0.05 to 2.48) Silty SAND, fine to coarse; some gravel, fine to coarse, angular; well graded, light greyish brown/light yellowish brown, very dense, massive, moist. Suspect cobbles with depth.		SPT-2		86	X				8/16/R/-	R					
	388				SPT-3		100	X				R/-/-/-	R					
	388				SPT-4		100	X				R/-/-/-	R					
	387		(2.48 to 4.69) Rock Type: TONALITE Colour: White, blue, black Fabric and Textures: Fine to coarse grained, massive. Weathering: Fresh to slightly weathered Discont. Type: Joints Discont. Orientation: Jointing at 45°, 90°. Healed joints at 45°. Other: Infill is thin, green and hard.	1			100			15	1	100	75					
	386			2			100			15	8	61	65					
	385		End of Drillhole: 4.69 m The drillhole is located at top of small hill with exposed bedrock outcrops close by. The area is covered with spruce/white birch/poplar trees with boulders and cobbles at surface. HQ coring advanced to 4.69 m depth.															

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SYMBOLS:

-  SPLITSPOON
-  CORE
-  SHELBY TUBE
-  BENTONITE CHIPS
-  BENTONITE GROUT
-  SLOUGH
-  WELL
-  SAND
-  BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.10

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-19

Page: 1 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 8 Aug 12

Location: Pit Overburden

Total Depth: 24.48 m

Date Completed: 11 Aug 12

Coordinates: 5,266,918 N, 430,388 E

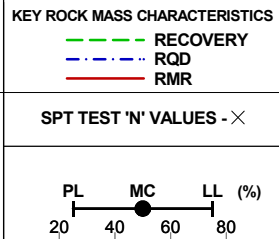
Elevation: 382 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL		
			ORGANICS (0 to 0.1) PEAT; trace sand, fine to coarse; trace silt; dark brown, spongy, fibrous, moist, with root inclusions.															
			SAND/SILT (0.1 to 4.11) SAND, fine to coarse; AND SILT; trace gravel, fine, angular; trace clay; poorly graded, light greyish brown/black, loose to very dense, massive, saturated.															
			TILL (4.11 to 10.74) GRAVEL, fine to coarse, angular to subangular; some cobbles; subangular; some sand, fine to medium; some silt; poorly graded, black/pink/white/grey/brown, very dense, massive, saturated. Some fines suspected washed by drilling.															
	382			SPT-1		50	X					1/2/3/1	5	X				
1.0				SPT-2		67	X					8/10/8/7	18	●	X			
	381			SPT-3		83	X					3/5/4/9	9	●	X			
2.0				SPT-4		83	X					3/6/10/39	22	●	X			
	380			SPT-5		100	X					24/57/R/R	R					
	379			SPT-6		75	X					22/R/R/-	R					
4.0				1		50												
	378			SPT-7		100	X					44/R/-/-	R					
	377			2		20												
6.0				3		37												
	376			4		39								●				
7.0																		
	375																	
8.0																		
	374																	



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SYMBOLS:

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

Knight Piésold
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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.11

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-19

Page: 2 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 8 Aug 12

Location: Pit Overburden

Total Depth: 24.48 m

Date Completed: 11 Aug 12

Coordinates: 5,266,918 N, 430,388 E

Elevation: 382 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	SPT TEST 'N' VALUES - X	PL		
373	10.0		TILL (4.11 to 10.74) GRAVEL, fine to coarse, angular to subangular; some cobbles; subangular; some sand, fine to medium; some silt; poorly graded, black/pink/white/grey/brown, very dense, massive, saturated. Some fines suspected washed by drilling.		5		6											
372	11.0		NO RECOVERY (10.74 to 14.18) NO RECOVERY															
371	12.0																	
370	13.0																	
369	14.0																	
368	15.0		TILL (14.18 to 17.75) GRAVEL, fine to coarse, angular to subangular; some cobbles; subangular; trace sand, fine to medium; poorly graded, black/pink/white/grey/brown, very dense, massive, saturated. Some fines suspected washed by drilling.		6		45											
367	16.0				7		20											
366	17.0				SPT-8		67	X				33/R/-	R					
365					8		53											
					9		100											

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- BENTONITE GROUT
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.11

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Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-19

Page: 3 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 8 Aug 12

Location: Pit Overburden

Total Depth: 24.48 m

Date Completed: 11 Aug 12

Coordinates: 5,266,918 N, 430,388 E

Elevation: 382 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									FROZEN SOIL DESCRIPTION	BLOW COUNTS (PER 0.15m)	SPT 'N' VALUE		
19.0	364		TILL (17.75 to 19.08) BOULDERS, subangular; MUCH GRAVEL, fine to coarse, angular; trace sand, coarse; poorly graded, blue/black/pink/brown/white, very dense, massive, saturated. Some fines suspected washed by drilling.		10		32											
20.0	363		(19.08 to 20.64) Rock Type: MAFIC DYKE Colour: blueish grey, greenish dark blue, white flecks Fabric and Textures: Fine to medium grain, massive Weathering: Highly weathered, no oxidation		11		100		2			0	35					
21.0	362		Discont. Type: Joints Discont. Orientation: Jointing at 0°, 45° and 60°. Healed joints at 0°, 45° and 60°.		12		100		2			0	33					
21.0	361		Other: Infill is soft and thin, to hard and thin. Parts of rock crumble to a sand consistency.		12B		100		7	1	100	67						
22.0	360		(20.64 to 24.48) Rock Type: DIORITE Colour: black, pink, red, white Fabric and Textures: Fine to coarse grain, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45° and 75°. Healed joints at 30°, 45° and 75°.		13		100		4	4	100	66						
23.0	360		Other: Infill is soft and thin, to hard and thin, greenish blue and whiteish yellow veinlets.		14		100		15	1	100	81						
24.0	359				15		100		7	13	100	65						
24.48	358		End of Drillhole: 24.48 m															
25.0	357		The drillhole is located in an area of spruce/cedar/poplar/white birch trees approximately 20-30 m from a lake. The area is flat with no visible bedrock at surface. The area does have boulders on the surface.															
26.0	356		HQ coring advanced to 24.48 m depth. The water level was 0.42 m below surface a few hours after drilling was complete.															

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SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS		BENTONITE GROUT
	SLOUGH		WELL		SAND		BENTONITE PELLETS		

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.11

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-20

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 11 Aug 12

Location: Pit Overburden

Total Depth: 16.74 m

Date Completed: 13 Aug 12

Coordinates: 5,266,770 N, 430,244 E

Elevation: 383 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
383			SAND (0 to 0.75) SAND, fine to medium; some silt; trace clay; trace peat; poorly graded, brown/grey/orange, loose, stratified, moist, with root inclusions.			SPT-1		92	X				1/2/4/3	6	X	●				
382			SILT (0.75 to 2.88) SILT; some sand, fine; trace clay; trace gravel, fine; low plasticity, light brownish grey, firm, stratified, wet to saturated.			SPT-2		67	X				3/5/5/7	1	X	●				
381						SPT-3		67	X				4/9/8/9	17		●				
380			SILT/SAND (2.88 to 4.7) SILT AND SAND, fine; trace clay; poorly graded, low plasticity, brownish grey, loose, massive, saturated.			SPT-4		83	X				2/4/6/6	10	X	●	2.3			
379						SPT-5		67	X				4/2/2/2	4	X	●	2.97			
378			TILL (4.7 to 11.31) GRAVEL, fine to coarse, angular to subangular; some sand, fine to coarse; some silt; some cobbles, subangular; trace clay; well graded, light brownish grey/pink/black/white, dense to very dense, massive, saturated. Fines suspected washed by drilling.			1		7												
377						SPT-6		50	X				1/2/2/3	4	X	●	4.47			
376						SPT-7		67	X				20/24/22/20	46			4.57			
375						SPT-8		67	X				19/36/40/91	76		●	6.2			
374						SPT-9		56	X				13/36/R/-	R			6.7			
						SPT-10		80	X				R/-/-	R			7.81			

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SYMBOLS:

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CÔTÉ GOLD PROJECT**

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.12

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-20

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 11 Aug 12

Location: Pit Overburden

Total Depth: 16.74 m

Date Completed: 13 Aug 12

Coordinates: 5,266,770 N, 430,244 E

Elevation: 383 m

Logged by: RWT










Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS		
373																		
11.0	372				3a		70											10.81
12.0	371		(11.31 to 16.74) Rock Type: TONALITE Colour: Light greenish white. Fabric and Textures: Fine to coarse grained, massive. Weathering: Fresh to slightly weathered Discont. Type: Joints Discont. Orientation: Jointing at 0°, 45°, 75° and 90°. Healed joints at 0°, 45°, 75° and 90°. Other: Infill is thin and hard, greenish white.		3b		100		7	11	35	53						11.43
13.0	370				4		100		7	9	0	49						
14.0	369																	
15.0	368				6		100		15	10	93	75						
16.0	367				7		100		15	4	93	77						
17.0	366		End of Drillhole: 16.74 m The drillhole is located 20 m South of the road in an area covered with cedar/spruce/white birch trees. HQ coring advanced to 16.74 m depth. Two monitoring wells were installed at this location. On August 13, 2012 the water level in the shallow well was 0.6 m below surface and in the deep well was 0.49 m below surface.															16.74
18.0	365																	
19.0	364																	

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SYMBOLS:

-  SPLITSPOON
-  CORE
-  SHELBY TUBE
-  BENTONITE CHIPS
-  BENTONITE GROUT
-  SLOUGH
-  WELL
-  SAND
-  BENTONITE PELLETS

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CÔTÉ GOLD PROJECT

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FIGURE A2.12

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-21

Page: 1 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 4 Sep 12

Location: Pit Overburden

Total Depth: 19.68 m

Date Completed: 8 Sep 12

Coordinates: 5,266,255 N, 430,025 E

Elevation: 381 m










Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RECOVERY	RQD			RMR
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
381			NO RECOVERY (0 to 0.75) NO RECOVERY, suspect peat.			SPT-1		0	X				1/0/1/0	1	X					
1.0			ORGANICS (0.75 to 0.85) PEAT; dark brown, spongy, fibrous, saturated, with root inclusions.			SPT-2		58	X				2/4/5/5	9	X					
380			SAND/SILT (0.85 to 8.3) Silty; SAND, fine to medium; trace clay; poorly graded, grey, loose to compact, stratified by coarseness, saturated. Clay mainly occurs in lenses between 3.04 and 7.45 m depth. Sand flows and heaves into augers at 3.0 m depth.			SPT-3		67	X				2/4/4/4	8	X					
2.0						SPT-4		67	X				0/1/1/1	2	X					
379						SPT-5		75	X				2/3/2/2	5	X					
3.0						SPT-6		67	X				0/0/2/4	2	X					
378						SPT-7		75	X				0/2/3/5	5	X					
4.0						SPT-8		58	X				2/5/6/6	11	X					
377						SPT-9		58	X				2/4/5/5	8	X					
5.0						SPT-10		42	X				3/4/4/4	8	X					
376						SPT-11		33	X				28/8/3/7	11	X					
6.0																				
7.0																				
374																				
																				7.62

SYMBOLS:

-  SPLITSPOON
-  CORE
-  SHELBY TUBE
-  BENTONITE CHIPS
-  BENTONITE GROUT
-  SLOUGH
-  WELL
-  SAND
-  BENTONITE PELLETS

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CÔTÉ GOLD PROJECT

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FIGURE A2.13

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Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-21

Page: 2 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 4 Sep 12

Location: Pit Overburden

Total Depth: 19.68 m

Date Completed: 8 Sep 12

Coordinates: 5,266,255 N, 430,025 E

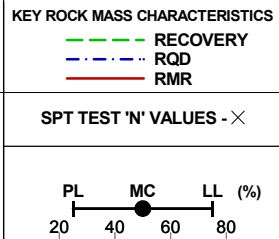
Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS		
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION			BLOW COUNTS (PER 0.15m)	SPT 'N' VALUE
373			SAND (8.3 to 13.72) SAND, fine to coarse; some gravel, fine to coarse, angular; some silt; well graded, grey, loose to compact, massive, saturated. Gravel content decreases with depth. Silt content increases with depth.																	
9.0				SPT-12	42								2/3/3/2	6						8.12
372				SPT-13	33								11/8/11/15	19						9.64
10.0				SPT-14	28								4/5/4/5	9						9.76
371				SPT-15	50								5/8/4/5	12						10.06
11.0				SPT-16	67								2/3/3/4	6						11.34
370				SPT-17	42								2/2/5/4	7						14.34
12.0				SPT-18	75								3/4/6/22	10						14.6
369				SPT-19	100								10/12/25/R	37						14.34
13.0				SPT-20	100								34/R/-/	R						14.6
14.0																				
367			SAND/SILT (13.72 to 14.27) Silty SAND, fine to medium; some clay; poorly graded, dark grey, very stiff, massive, saturated.																	
14.0				1	100								7	2	84	64				
15.0			TILL (14.27 to 14.75) Gravelly, fine to coarse, angular; SAND, fine to coarse; trace cobbles, sub-angular; trace silt; well graded, grey, very dense, massive, saturated.																	
366				2	100								7	4	100	65				



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- BENTONITE GROUT
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/1 Ref. No. 4 Rev. 0

FIGURE A2.13

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Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-21

Page: 3 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 4 Sep 12

Location: Pit Overburden

Total Depth: 19.68 m

Date Completed: 8 Sep 12

Coordinates: 5,266,255 N, 430,025 E

Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS		
				SOIL	SAMPLE / RUN No.									RECOVERY	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)	SPT 'N' VALUE
17.0	364		rock. Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 45°, 60° and 90°. Healed joints at 45°, 60° and 90°. Other: Infill is soft, grey and thin or hard, thin and white. Some joints have Quartz and Pyrite mineralization. Pyrite mineralization speckled throughout core.			3	100			7	11	85	62							
19.0	362					4	100			7	10	60	56							
20.0	361		End of Drillhole: 19.68 m The drillhole is located 40 m west of the stream bank and 60 m east of a pine/spruce tree line with alders and grasses covering the ground. The surface is saturated. HQ coring advanced to 19.68 m depth. Three monitoring wells (one in bedrock and two in overburden) installed at this location. Each monitoring well was installed in their own drillhole (i.e. the overburden monitoring wells were not installed in one drillhole as depicted on the log). On September 8, 2012 the water level in the bedrock well was at ground surface and in the deep overburden well was 0.06 m below surface and in the shallow overburden well was 0.03 m below surface.																	

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SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS		BENTONITE GROUT
	SLOUGH		WELL		SAND		BENTONITE PELLETS		

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CÔTÉ GOLD PROJECT**

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-22

Page: 1 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 9 Sep 12

Location: Pit Overburden

Total Depth: 25.73 m

Date Completed: 12 Sep 12

Coordinates: 5,266,327 N, 430,074 E

Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	RECOVERY		
381			ORGANICS (0 to 1.15) PEAT; some organic silt; dark reddish brown/light brown, spongy to plastic, fibrous, wet to saturated, with root inclusions.			SPT-1	25	X				1/1/1	2	X				
380			SAND/SILT (1.15 to 11.27) Silty; SAND, fine; trace clay; poorly graded, grey, loose to compact, stratified, saturated.			SPT-2	42	X				0/0/2/4	2	X				
379						SPT-3	83	X				2/4/5/6	9	X				
378						SPT-4	75	X				2/5/5/5	10	X				
377						SPT-5	67	X				1/1/1/2	2	X				
376						SPT-6	75	X				2/1/3/5	4	X				
375						SPT-7	75	X				2/2/2/3	4	X				
374						SPT-8	67	X				3/1/3/4	4	X				
373						SPT-9	83	X				0/0/1/1	1	X				
372						SPT-10	58	X				2/3/3/3	6	X				
						SPT-11	75	X				3/4/3/4	7	X				
						SPT-12	67	X				2/4/4/8	8	X				
						SPT-13	67	X				1/4/5/5	9	X				

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SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS		BENTONITE GROUT
	SLOUGH		WELL		SAND		BENTONITE PELLETS		

IAMGOLD CORPORATION CÔTÉ GOLD PROJECT		
<i>Knight Piésold</i> CONSULTING		Project No. NB101-497/1
		Ref. No. 4
		Rev. 0
FIGURE A2.14		

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-22

Page: 2 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 9 Sep 12

Location: Pit Overburden

Total Depth: 25.73 m

Date Completed: 12 Sep 12

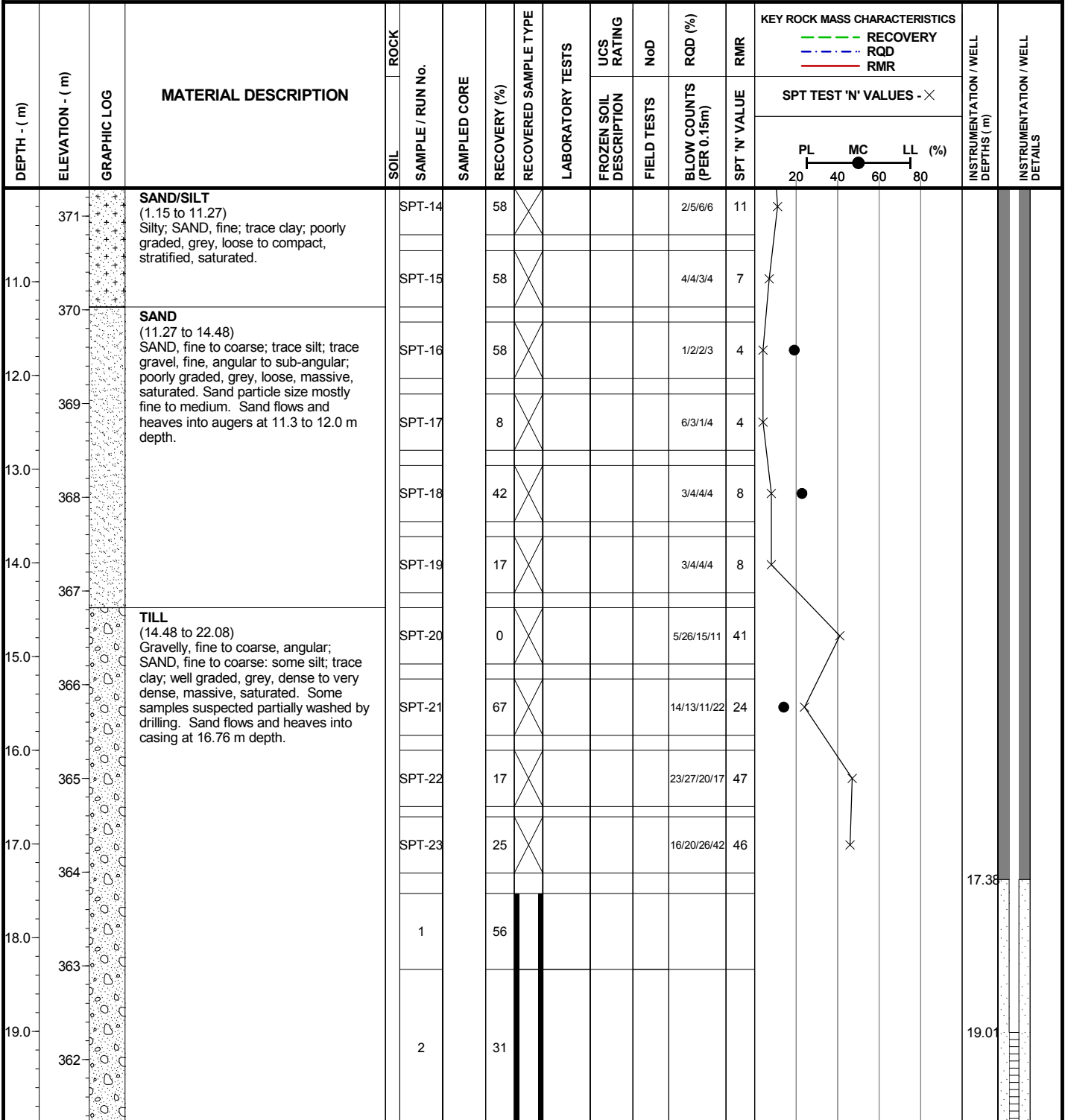
Coordinates: 5,266,327 N, 430,074 E

Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM



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SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS		BENTONITE GROUT
	SLOUGH		WELL		SAND		BENTONITE PELLETS		

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.14

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-PO-22

Page: 3 of 3

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 9 Sep 12

Location: Pit Overburden

Total Depth: 25.73 m

Date Completed: 12 Sep 12

Coordinates: 5,266,327 N, 430,074 E

Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	RECOVERY			RQD
361	21.0		TILL (14.48 to 22.08) Gravelly, fine to coarse, angular; SAND, fine to coarse: some silt; trace clay; well graded, grey, dense to very dense, massive, saturated. Some samples suspected partially washed by drilling. Sand flows and heaves into casing at 16.76 m depth.	SPT-24		100	X					RI-/I-	R						
360				SPT-25		93	X						25/R-/I-	R	●				
22.0				SPT-26		3		100	X					RI-/I-	R				
359	22.0		(22.08 to 25.73) Rock Type: DIORITE Colour: Dark blueish grey with pink and white flecks Fabric and Textures: Medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 35°, 45°, 60° and 90°. Healed joints at 35°, 45°, 60° and 90°. Other: Infill is thick, hard and white or thin, soft and grey. White veins/veinlettes and speckled yellow mineralization throughout core.	4		100			12	7	64		61						
358				5		100				12	6	87		67					
357				6		100				12	9	82		67					
356																			
26.0	22.08		End of Drillhole: 25.73 m The drillhole is located 25 m east of stream and 15 m west of the tree line with grasses and shrubs covering the ground. HQ coring advanced to 25.73 m depth. One monitoring well (in overburden) installed at this location. On September 11, 2012 the water level was 0.19 m below surface.																
355	25.76																		
354																			
353																			
352																			

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SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS		BENTONITE GROUT
	SLOUGH		WELL		SAND		BENTONITE PELLETS		

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

Knight Piésold
CONSULTING

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FIGURE A2.14

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-01

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 6 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 15.60 m

Date Completed: 7 Mar 12

Coordinates: 5,277,334 N, 429,295 E

Elevation: 372 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK SAMPLE / RUN No.	SOIL SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	ROD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
														RECOVERY	RQD	RMR			
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
	371		ORGANICS (0 to 0.2) ORGANIC SOIL; black, fibrous, frozen.	SPT-1			58	X				5/0.3/0.3/0.3	0.66	X					
1.0			ORGANICS (0.2 to 0.5) ORGANIC SOIL; black, spongy, fibrous, saturated.	SPT-2			67	X				5/5/4/5	9	X	●				
	370		SILT (0.5 to 1) SILT; light grey, very soft to soft, massive, saturated, with root inclusions throughout.	SPT-3			58	X				0/1/3/2	4	X					
2.0			SILT/SAND (1 to 3.45) Sandy, fine to coarse; SILT; trace clay; light grey, soft, massive, saturated.	SPT-4			67	X				0/1/2/-	3	X					
3.0	369		SILT (3.45 to 3.75) SILT; trace clay; light grey, firm, laminated, saturated.	SPT-5			100	X				0/1/1/3	2	X					
4.0	368		SILT (3.75 to 9.75) SILT; trace clay; trace sand, fine; light grey, non-plastic, firm, massive, saturated.	SPT-6			67	X				2/1/2/2	3	X	●				
5.0	367			SPT-7			67	X				0/1/1/2	2	X					
6.0	366			SPT-8			75	X				0/0/1/2	1	X					
7.0	365			SPT-9			67	X				0/0/0/1	0	X	●				
				Shelby1															
8.0	364			SPT-10			67	X				0/2/1/2	3	X					
	363			SPT-11			88	X				0/0/0/2	0	X					

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.8

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-01

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 6 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 15.60 m

Date Completed: 7 Mar 12

Coordinates: 5,277,334 N, 429,295 E

Elevation: 372 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLING	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	RECOVERY		
														PL MC LL (%) 20 40 60 80				
10.0	362	+	NO RECOVERY (9.75 to 10.35) NO RECOVERY, lost.			SPT-12	90					0/0/0/0	0	X				
						SPT-13	0					4/1/5/7	6	X				
11.0	361	▨	TILL (10.35 to 10.48) GRAVEL, fine to coarse, subangular to subrounded; pink/black/white, suspected washed by drilling.			1a	100											
			(10.48 to 15.6) Rock Type: GRANITE Colour: Pink, red, white, black Fabric and Textures: Medium grained Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 20°, 30°, 45°, 70° and 80°. Healed joints at 0°, 10°, 20°, 30°, 45° and 80°. Other: Infill is soft and red.			1b	100		12	5	87	71						
12.0	360					2	100		12	0	0	57						
13.0	359					3	100		12	9	91	68						
14.0	358					4	95		12	10	38	58						
15.0	357					5	100		12	21	69	63						
16.0	356		End of Drillhole: 15.6 m The drillhole location is flat and approximately 30 feet from the stream edge. HQ coring advanced to 15.6 m depth. Successful packer test completed from 11.44 to 15.6 m. Artesian conditions were noted (water level 0.3 m above the ground) on March 7, 2012.															
17.0	355																	
354																		

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
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- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.8

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Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-02

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 2 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 7.85 m

Date Completed: 4 Mar 12

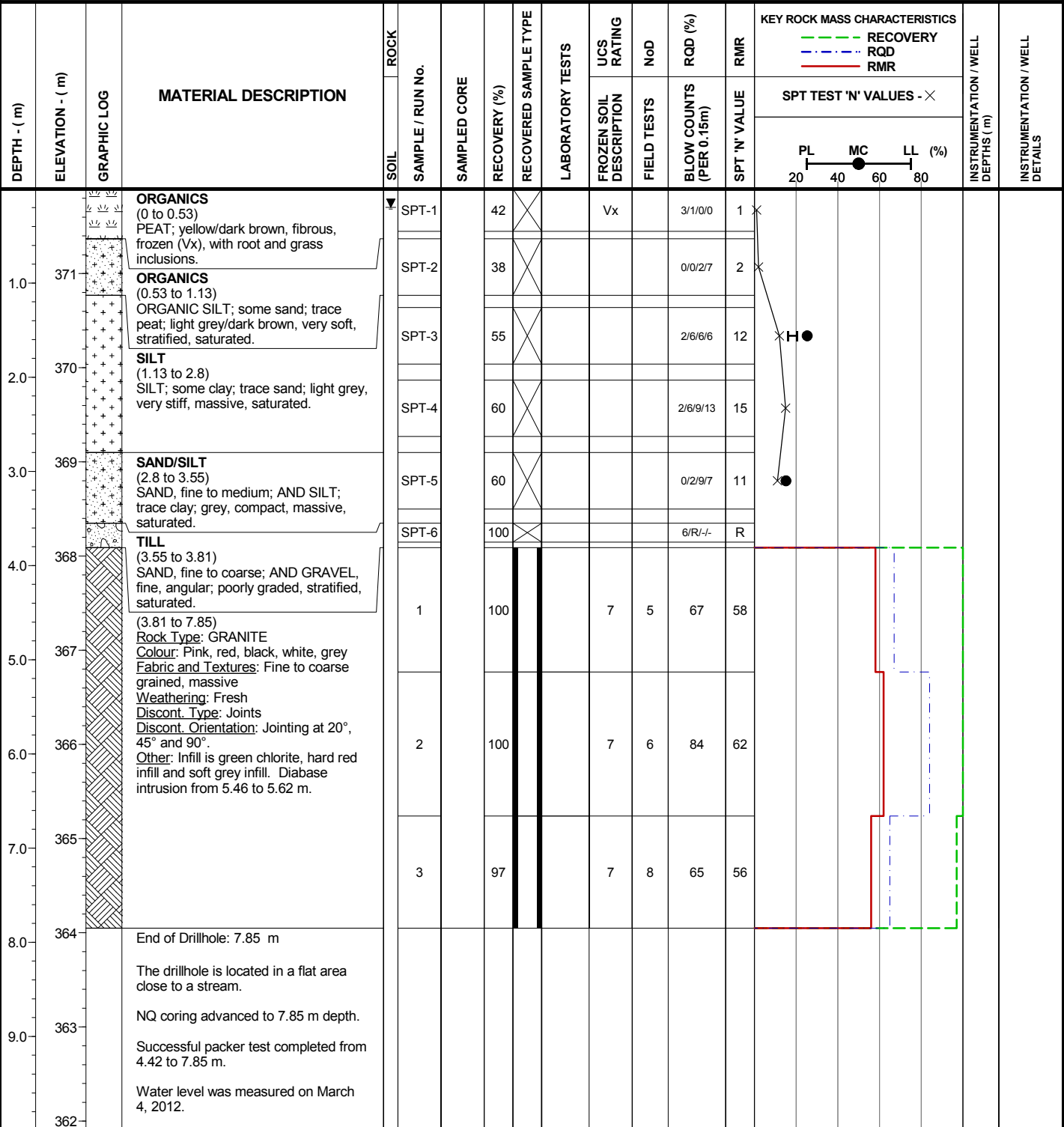
Coordinates: 5,277,336 N, 429,363 E

Elevation: 372 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH



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I:\GINT\LIBRARY\COTE LAKE PROJECT\KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.9

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-03

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 13 Feb 12

Location: Tailings Management Facility # 2

Total Depth: 6.83 m

Date Completed: 13 Feb 12

Coordinates: 5,277,014 N, 430,494 E

Elevation: 374 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RECOVERY	RECOVERY			
374			ORGANICS (0 to 0.66) PEAT; dark brown, spongy, fibrous, wet, with root and wood intrusions throughout.			SPT-1		33					1/3/4/14	7						
373	1.0		TILL (0.66 to 2.19) Gravelly, fine to coarse, angular; SILT; some sand, fine to coarse; trace clay; well graded, dark brown/grey, very stiff, massive, saturated.			SPT-2		50					9/15/21/13	36						
372	2.0		TILL (2.19 to 2.56) SAND, fine to coarse; trace silt; well graded, brownish grey, very dense, massive, saturated.			SPT-3		60					0/10/13/11	23						
371	3.0		NO RECOVERY (2.56 to 2.7) NO RECOVERY, lost. (2.7 to 6.83) Rock Type: GRANITE Colour: Blueish black, white, pink Fabric and Textures: Medium to coarse grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 45° and 90°. Other: Infill is soft and grey.			SPT-4		100					R/-/-/-	R						
370	4.0			1a				0												
369	5.0			1b				100			7	3	64	60						
368	6.0			2				100			7	8	80	60						
367	7.0			3				100			7	5	86	62						
			End of Drillhole: 6.83 m The drillhole is located in a heavily treed, gently sloping area. NQ coring advanced to 6.83 m depth. Successful packer test completed from 3.66 to 6.83 m.																	

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FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.10

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-04

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 18 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 9.95 m

Date Completed: 18 Feb 12

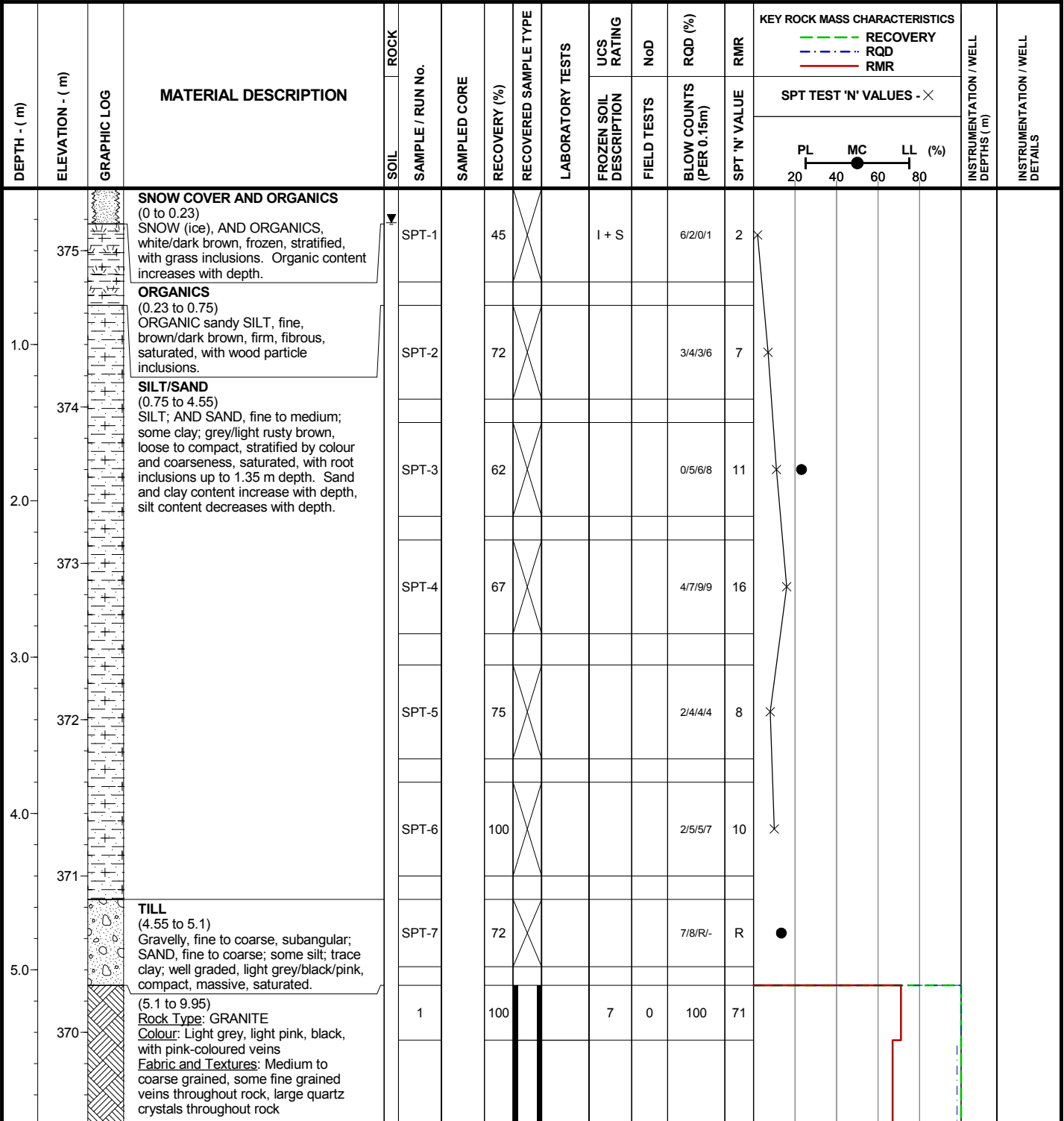
Coordinates: 5,273,801 N, 430,633 E

Elevation: 375 m

Logged by: CLS

Inclination: -90

Reviewed by: RSM/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.11

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Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-04

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 18 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 9.95 m

Date Completed: 18 Feb 12

Coordinates: 5,273,801 N, 430,633 E

Elevation: 375 m

Logged by: CLS

Inclination: -90

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS		
369	7.0		Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 5°, 40° and 80°. Other: Infill is sand, chlorite, red staining, rusty staining and black staining.		2		100			7	4	98	67					
368	8.0				3		100			7	5	83	60					
367	9.0				4		100			7	4	97	69					
366	10.0				5		100			7	0	100	71					
365	11.0		End of Drillhole: 9.95 m Drillhole located in open area (drainage path), with few shrubs and trees present. NQ coring advanced to 9.95 m depth. Successful packer test completed from 6.0 to 9.95 m. Water level approximated at 0.2 m based on measurement taken in hand-dug sump close to drill.															

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FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS
	SLOUGH		WELL		SAND		BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.11

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-05

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 15 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 6.75 m

Date Completed: 17 Feb 12

Coordinates: 5,273,641 N, 430,193 E

Elevation: 373 m

Logged by: CLS

Inclination: -90

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	SPT TEST 'N' VALUES - X	PL		
			ORGANICS (0 to 0.45) PEAT, dark brown, fibrous, frozen (Vc, Vx), with root, grass and other organic inclusions throughout. Ice is clear and occurs mainly in square-shaped pieces.			54			Vc Vx		1/1/R/-	R					
	372		COBBLES MUCH GRAVEL (0.45 to 1.05) COBBLES; MUCH GRAVEL, fine to coarse, angular to subangular; pink/black/grey/weathered orangeish, loose, massive, suspect fines matrix washed by casing advancement.		1	83									0.71 0.86		
			ORGANICS (1.05 to 1.8) Sandy, fine to coarse; PEAT; trace gravel, fine to coarse, angular; dark brown/pink/grey/black, firm, fibrous, saturated, with wood pieces and small rootlets throughout.		SPT-2	57					8/3/4/5	7	X		1.38		
	371		TILL (1.8 to 2) SAND, fine to coarse; some gravel, fine to coarse, angular; trace silt; well graded, greyish brown, very dense, stratified by colour, saturated. Soil becomes lighter in colour with depth.		SPT-3	100					7/33/94/-	R					
			(2 to 6.75) Rock Type: GRANITE Colour: Light grey/black/pink Fabric and Textures: Medium to coarse grained, massive Weathering: Slightly weathered to fresh Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45° and 80°. Other: Infill is fine sand, chlorite, black staining, rusty staining, brown staining and red staining. Fractured rock located between 3.3 and 3.8 m depth.		2	100			7	7	83	59			2.9 2.95 3.13		
	369				3	100			7	6	76	63			3.61 4.2		
	368														4.88		

FROZEN SOIL DESCRIPTIONS:

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- Vc - ICE COATINGS ON PARTICLES
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- Hs - ICE WITH SOIL INCLUSIONS
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- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.12

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I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-05

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 15 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 6.75 m

Date Completed: 17 Feb 12

Coordinates: 5,273,641 N, 430,193 E

Elevation: 373 m

Logged by: CLS

Inclination: -90

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	SPT TEST 'N' VALUES - X	PL		
	367					4	100		7	2	100	71					
	6.0					5	100		7	1	100	69				6.4	
	366		End of Drillhole: 6.75 m													6.6	
	7.0		Drillhole located at edge of swampy area close to road and creek. Some trees present with boulders at surface. HQ coring advanced to 6.75 m depth. Approximately 20 cm of snow removed from drill site location. Successful packer test completed from 2.9 to 6.75 m.													6.75	
	365		Two monitoring wells (one in overburden, one in bedrock) installed at this location. Water level measured using water level meter on March 22, 2012. Suspect SPT-3 curved along overburden/bedrock contact.														
	8.0																
	364																
	9.0																
	363																

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
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- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
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- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.12

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
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Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-06

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 13 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 9.20 m

Date Completed: 15 Feb 12

Coordinates: 5,273,554 N, 430,303 E

Elevation: 373 m

Logged by: CLS

Inclination: -90

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								SPT TEST 'N' VALUES - X	RECOVERY	RQD		
													PL MC LL (%) 20 40 60 80				
			ORGANICS (0 to 0.33) PEAT; dark brown, frozen (Vc), with grass/wood pieces throughout. Ice is clear.														
	372		NO RECOVERY (0.33 to 0.6) NO RECOVERY, lost. Suspected water column.														
			ORGANICS (0.6 to 1) PEAT; dark brown, saturated, with frozen pieces (Vc, Vx), with grass/wood pieces throughout. Ice is clear.														
			TILL (1 to 3.65) Gravelly, fine to coarse, angular; SAND, fine to coarse; some silt; trace boulders, subrounded; well graded, brown/light pinkish grey/black, compact to very dense, stratified, saturated. Samples partially washed by advancing casing. Gravel content increases with depth, silt content decreases with depth.														
	371																
	370																
	369		(3.65 to 9.2) Rock Type: GRANITE Colour: Light pinkish grey/black Fabric and Textures: Medium to coarse grained, massive, quartz crystals throughout rock Weathering: Slightly weathered to fresh Discont. Type: Joints Discont. Orientation: Jointing at 20°, 45° and 75°. Other: Infill is light brown silt, fine sand, calcite, chlorite, red staining, black staining, yellow staining and green staining.														
	368																
	5.0																
	367																

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.13

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-06

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 13 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 9.20 m

Date Completed: 15 Feb 12

Coordinates: 5,273,554 N, 430,303 E

Elevation: 373 m

Logged by: CLS

Inclination: -90

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
7.0	366					100			7	6	91	66						
8.0	365					100			7	6	89	65						
9.0	364					100			7	3	97	66						
10.0	363		End of Drillhole: 9.2 m Drillhole located in open, swampy area with grassy mounds present, near edge of creek. HQ coring advanced to 9.2 m depth. Successful packer test completed from 3.8 to 9.2 m. Water level measured using water level meter on February 15, 2012.															
11.0	362																	
	361																	

I:\110049701\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS
	SLOUGH		WELL		SAND		BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.13

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-07

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 10 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 7.65 m

Date Completed: 13 Feb 12

Coordinates: 5,273,628 N, 430,107 E

Elevation: 372 m

Logged by: CLS

Inclination: -90

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS FROZEN SOIL DESCRIPTION	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	SPT TEST 'N' VALUES - X	PL		
	372		SNOW COVER (0 to 0.25) SNOW, with grassy pieces.														
			ICE AND ORGANIC SILT (0.25 to 1.35) ICE; AND ORGANIC; sandy, fine; SILT; white/light brown, stratified, frozen (I+S). Ice is cloudy.		SPT-1	83			I + S		1/5/11/2	16					
1.0					SPT-2	0			?		0/0/0/1	0					
	371		ORGANICS (1.35 to 2.25) PEAT; dark brown, spongy, fibrous, saturated, with root inclusions throughout.														
					SPT-3	25					0/0/0/0	0					
2.0					SPT-4	0					R/L-L-L	R					
	370		TILL (2.25 to 2.65) GRAVEL, fine to coarse, angular; pink/grey/black, suspected washed by drilling.		1a	43											
			(2.65 to 7.65) Rock Type: GRANITE Colour: Pinkish grey/black with small quartz veins Fabric and Textures: Medium grained, massive Weathering: Slightly weathered to fresh Discont. Type: Joints Discont. Orientation: Jointing at 5°, 20°, 45° and 70°. Other: Infill is sand, silt, chlorite, calcite, red staining and black staining.		1b	100			7	3	0	47					
3.0					2	100			7	5	76	61					
4.0					3	100			7	1	100	68					
	368																

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.14

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-07

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 10 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 7.65 m

Date Completed: 13 Feb 12

Coordinates: 5,273,628 N, 430,107 E

Elevation: 372 m

Logged by: CLS

Inclination: -90

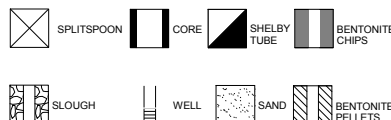
Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
	367					4	100			7	1	100	68						
6.0	366					5	100			7	1	100	76						
7.0	365					6	100			7	2	79	66						
8.0	364		End of Drillhole: 7.65 m Drillhole located in low-lying, swampy area. Running water located next to drill (creek). Grassy mounds present around the site and bedrock ridge visible on opposite side of creek. NQ coring advanced to 7.65 m depth. Successful packer test completed from 3.65 to 7.65 m. Water level measured using water level meter on February 10 and 12, 2012 (measurements averaged).																
9.0	363																		

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:



TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.14

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-08

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 4 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 7.38 m

Date Completed: 4 Mar 12

Coordinates: 5,273,452 N, 429,781 E

Elevation: 374 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
			SNOW COVER (0 to 0.47) SNOW			SPT-1		37					3/4/7/4	11						
			ORGANICS (0.47 to 0.55) PEAT; brown, firm, fibrous, moist, with wood pieces throughout.			SPT-2		92					6/6/4/5	10						
			SAND/SILT (0.55 to 1.5) SAND, fine to medium; AND SILT; trace clay; poorly graded, light brown/grey, compact, massive, saturated.			SPT-3		60					16/15/17/17	32						
			TILL (1.5 to 2.49) Gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; some silt; trace clay; well graded, brown/black/red/grey, dense, massive, saturated. Suspected partially washed by drilling between 2.13 and 2.49 m.			SPT-4		77					R/-/-	R						
						1a		81												
						1b		100			4	1	100	64						
						2		94			4	7	96	54						
						3		100			4	11	65	56						
						4		100			4	10	58	54						
			End of Drillhole: 7.38 m																	
			The drillhole is located at the bottom of a small hill, surrounded by trees. One large boulder at surface uphill of drill site.																	
			HQ coring advanced to 7.38 m depth.																	
			Successful packer test completed from 3.0 to 7.38 m.																	
			Water level measured using water level meter on March 4, 2012.																	

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I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
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- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.15

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-09

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 14 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 11.70 m

Date Completed: 16 Feb 12

Coordinates: 5,273,136 N, 429,216 E

Elevation: 374 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK	SOIL	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
374			ORGANICS (0 to 0.48) ORGANIC SILT; some clay; light grey/dark brown/dark grey, stratified, frozen (Vx), with wood pieces throughout.			SPT-1		75			Vx		1/1/2/2	3	X					
373	1.0		ORGANICS (0.48 to 2.85) ORGANIC SILT; some peat; some clay; trace sand, fine; non-plastic, dark brown/light brown/light grey/dark grey, stiff, massive, saturated, with wood pieces to 1 m depth. Clay content decreases with depth.			SPT-2		78					3/8/9/10	17	X					
372	2.0					SPT-3		66					4/6/8/10	14	X					
371	3.0		SAND (2.85 to 5.1) SAND, fine to coarse; trace silt; trace clay; trace gravel, fine, angular; well graded, light brown/light grey/blueish grey, very loose to compact, massive, saturated. Gravel encountered below 4.5 m depth.			SPT-4		83					7/7/8/7	15	X					
370	4.0					SPT-5		100					1/2/3/2	5	X					
370	4.5					SPT-6		100					1/3/4/6	7	X					
369	5.0		TILL (5.1 to 7.4) COBBLES, angular to subangular; some gravel, fine to coarse, angular to subangular, some sand, fine to coarse; well graded, light blueish grey/pink/dark grey/black/white, compact to very dense, massive, saturated. Some fines suspected washed by drilling.			SPT-7		58					2/11/10/12	21	X					
368	6.0					SPT-8		100					52/R/-/-	R						
						1		71												
						SPT-9		50					2/8/4/4	12	X					
						2		100												

FROZEN SOIL DESCRIPTIONS:

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- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.16

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-09

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 14 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 11.70 m

Date Completed: 16 Feb 12

Coordinates: 5,273,136 N, 429,216 E

Elevation: 374 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	SPT TEST 'N' VALUES - X	PL		
367			(7.4 to 11.7) Rock Type: GRANITE Colour: Black, grey, white, pink Fabric and Textures: Medium to coarse grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 20°, 30°, 45° and 90°. Other: Infill is white, soft grey, and green, with dark staining on smooth joint surfaces.	3		50											
8.0	366			4		96			7	9	74	58					
365				5		100			7	7	86	62					
364				6		100			7	9	86	62					
363																	
12.0	362		End of Drillhole: 11.7 m The drillhole is located in a moderately treed, gently sloping area. HQ coring advanced to 11.7 m depth. Successful packer test completed from 8.1 to 11.7 m. Water level was measured on February 14 and 16, 2012 (measurements averaged).														
361																	

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
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- Hs - ICE WITH SOIL INCLUSIONS
- Ic - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.16

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-10

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 8 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 6.55 m

Date Completed: 9 Feb 12

Coordinates: 5,271,603 N, 428,717 E

Elevation: 382 m

Logged by: RT/CLS

Inclination: -90

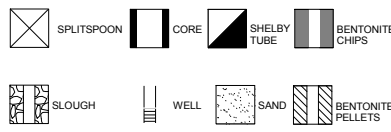
Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	SPT TEST 'N' VALUES - X	PL		
			SNOW COVER (0 to 0.29) SNOW, overlying ground level. Not an accurate indication of depth of snow in the area, due to removal of some snow cover during drill pad preparation.			100			Nbe		1/1/2/6	3					
	381		ORGANICS (0.29 to 1.2) ORGANIC SILT; some sand, fine to medium; trace clay; light grey/dark grey/brown, amorphous, frozen (Nbe, Vx), amorphous, with wood pieces throughout. Ice is cloudy.			73			Vx		6/5/5/6	10					
			SAND (1.2 to 1.6) SAND, fine to coarse; trace silt; poorly graded, blueish grey, compact, massive, moist. Suspected bedrock fragments recovered at bottom of sample.			100					R/-/-	R					
	380		(1.6 to 6.55) Rock Type: GRANITE Colour: Pink/black Fabric and Textures: Medium grained, massive Weathering: Fresh to slightly weathered Discont. Type: Joints Discont. Orientation: Jointing at 20°, 30°, 45° and 75°.	1		100			7	6	87	62					
	379		Other: Infill is grey clay, greenish grey silt, sand, chlorite and black staining. Pink intrusion (vein) at 6.1 m depth.														
	378			2		100			7	3	100	66					

FROZEN SOIL DESCRIPTIONS:

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- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:



TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.17

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
 I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-10

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 8 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 6.55 m

Date Completed: 9 Feb 12

Coordinates: 5,271,603 N, 428,717 E

Elevation: 382 m

Logged by: RT/CLS

Inclination: -90

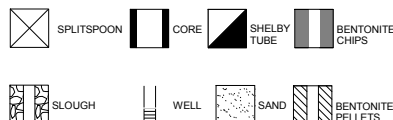
Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	PL			MC
5.0	377					3	100			7	4	97	65						
6.0	376					4	100			7	3	98	65						
7.0	375		<p>End of Drillhole: 6.55 m</p> <p>Drillhole located in low lying area, about 70 m East of the road, along a cut line. Exposed bedrock south of drill site close by. Most of the trees in the area are red pine and spruce.</p> <p>HQ coring advanced to 6.55 m.</p> <p>Successful packer test completed from 2.38 to 6.55 m.</p> <p>Water level measured using water level meter on February 8, 2012.</p>																
374																			

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:



TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.17

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\INT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-11

Page: 1 of 4

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 9 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 23.80 m

Date Completed: 14 Feb 12

Coordinates: 5,272,973 N, 428,859 E

Elevation: 374 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK	SOIL	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	ROD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
374			ICE AND WATER (0 to 0.5) ICE (approximately 0.2 m thick), overlying WATER (approximately 0.3 m).			SPT-1		58					1.33/0.67/1/3	1.67	X					
373			ORGANICS (0.5 to 0.55) PEAT; trace sand, coarse; brown/green/yellow, spongy, fibrous, saturated, with wood particles throughout. Small ice fragments found in sample.			SPT-2		57					14/16/13/13	29	X					
372			SAND/SILT (0.55 to 0.75) SAND, fine to coarse; AND SILT; trace gravel, fine, angular; trace clay; well graded, dark greenish grey, compact, massive, saturated.			SPT-3		60					25/21/19/26	40	X					
371			TILL (0.75 to 6.03) GRAVEL, fine to coarse, angular to subangular; AND SAND, fine to coarse; some cobbles, subangular; trace boulders, subangular; trace silt; well graded, dark greenish grey/pink/white/black/red, compact to very dense, massive, saturated. Some fines suspected washed by drilling.			1		98												
						2		45												
						3		100												
						4		100												
						5		44												
						6		48												
						SPT-4		100					15/R/-	R						
						7		81												
						8		100												
						9a		100												
						9b		100			4	1	24	47						
						10		100			4	4	0	39						
						11		100			4	10	30	47						
			(6.03 to 15.9) Rock Type: SCHIST Colour: Dark blueish grey, black, green, purple, red spots, reddish pink intrusions Fabric and Textures: Fine grained with medium to coarse grained intrusions; massive																	

I:\11010049\701\DATA\WORK FILES\W01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.18

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-11

Page: 2 of 4

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 9 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 23.80 m

Date Completed: 14 Feb 12

Coordinates: 5,272,973 N, 428,859 E

Elevation: 374 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
	367		<p>Weathering: Slightly weathered to fresh Discont. Type: Joints Discont. Orientation: Jointing at 0°, 5°, 20°, 45°, 75° and 90°. Joint at 0° is continuous through core from 13.5 to 14.6 m depth. Other: Rock is highly fractured. Infill is hard green, soft green, grey, reddish orange and white, with purple staining.</p>																
8.0	366			12	100				4	3	0	39							
				13	100				4	20	29	44							
				14	100				4	20	47	46							
				15	100				4	10	52	54							
11.0	363			16	61				4	20	30	47							
12.0	362			17	100				4	20	0	42							
				18	100				4	20	46	49							
13.0	361			19	100				4	20	0	42							

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.18

I:\110049701\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
 I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-11

Page: 3 of 4

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 9 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 23.80 m

Date Completed: 14 Feb 12

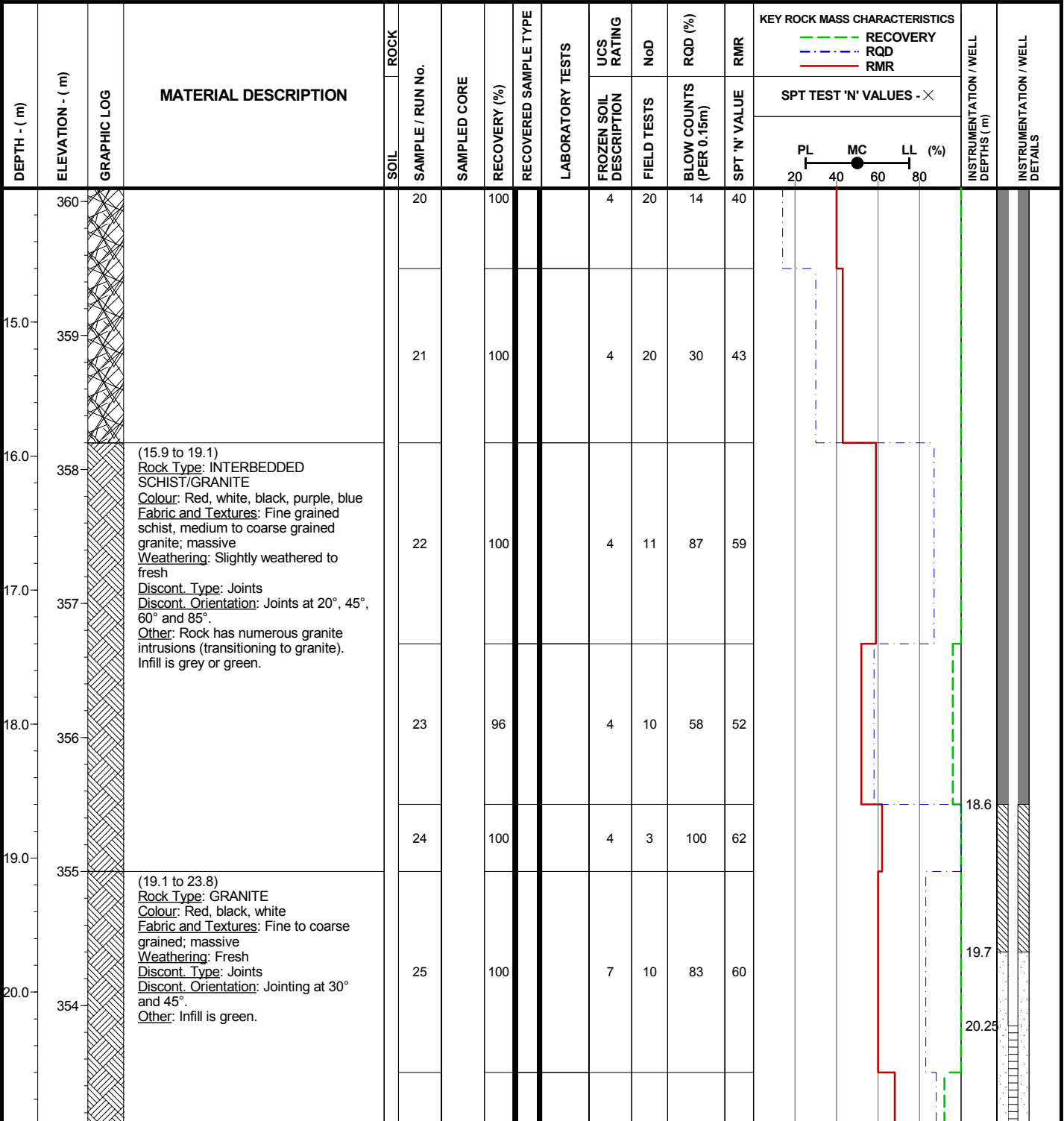
Coordinates: 5,272,973 N, 428,859 E

Elevation: 374 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

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- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- [Cross-hatched] SPLITSPOON
- [Solid black] CORE
- [Diagonal lines] SHELBY TUBE
- [Horizontal lines] BENTONITE CHIPS
- [Wavy lines] SLOUGH
- [Vertical lines] WELL
- [Dotted] SAND
- [Diagonal lines] BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.18

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP_LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-11

Page: 4 of 4

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 9 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 23.80 m

Date Completed: 14 Feb 12

Coordinates: 5,272,973 N, 428,859 E

Elevation: 374 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	FROZEN SOIL DESCRIPTION	FIELD TESTS		
22.0	352			26		92			7	3	88	68						
23.0	351			27		100			7	3	99	67						
24.0	350		End of Drillhole: 23.8 m															
25.0	349		Drillhole located in a low, swampy area approximately 20 m west of the access road. Some boulders, ice and low trees are present at surface. HQ coring advanced to 23.8 m depth. Two packer tests completed from 9.2 to 23.8 m and 20.33 to 23.8 m. One monitoring well installed at this location. Water level was measured using water level meter on February 9 and 14, 2012 (measurements averaged).															
26.0	348																	
27.0	347																	

I:\110049701\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS
	SLOUGH		WELL		SAND		BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.18

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-12

Page: 1 of 4

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 18 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 32.92 m

Date Completed: 24 Feb 12

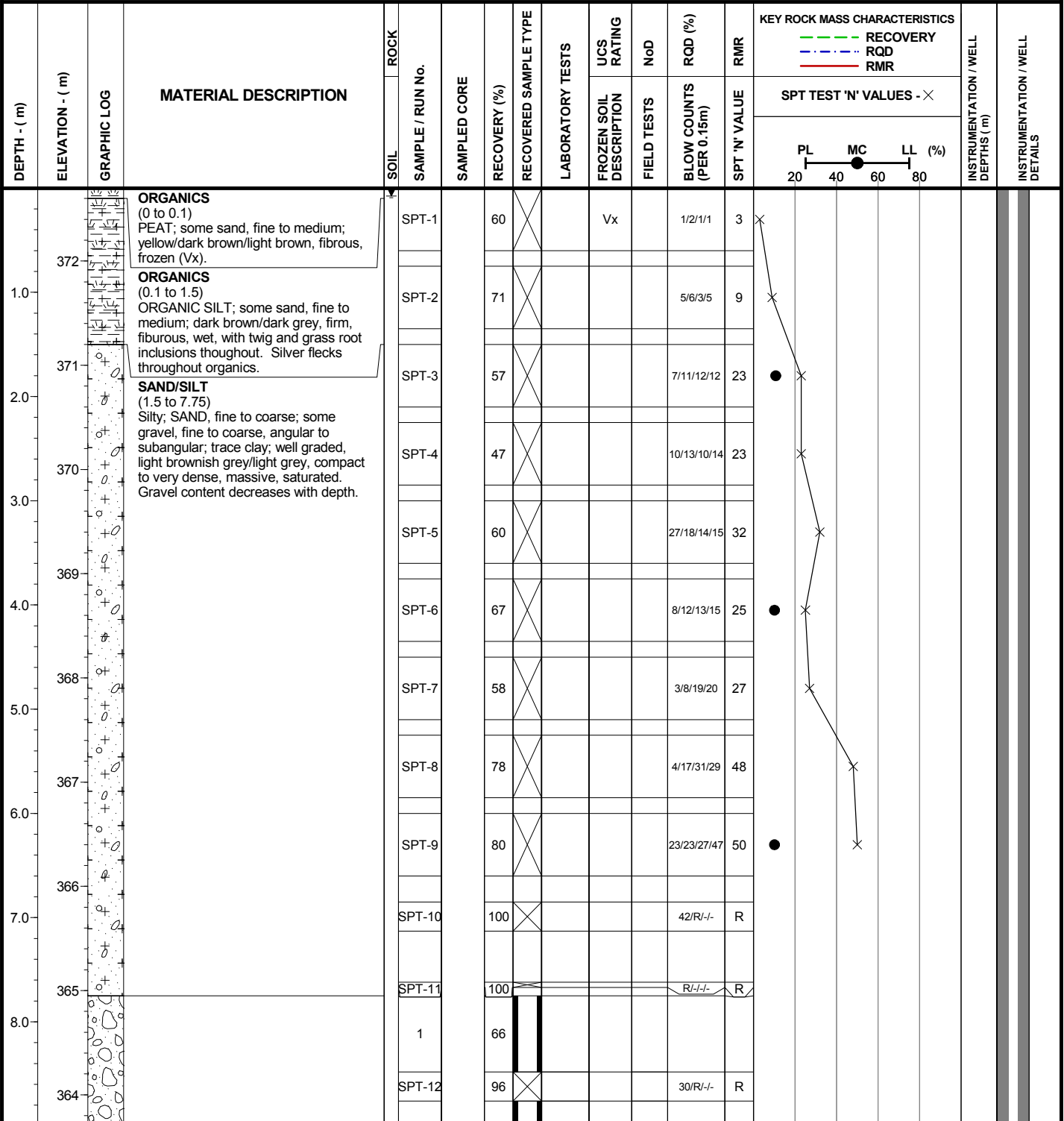
Coordinates: 5,273,376 N, 428,460 E

Elevation: 373 m

Logged by: RT/RDW

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.19

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-12

Page: 2 of 4

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 18 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 32.92 m

Date Completed: 24 Feb 12

Coordinates: 5,273,376 N, 428,460 E

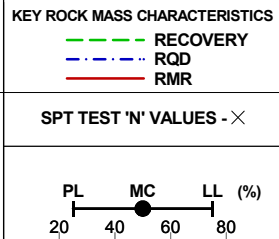
Elevation: 373 m

Logged by: RT/RDW

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL		
			TILL (7.75 to 17.91) SAND, fine to coarse; AND GRAVEL, fine to coarse, angular to subrounded; trace silt; trace cobbles, subangular; trace clay; well graded, light grey/brown/pink/black/white/rusty patches, very dense, massive, saturated. Some samples partially washed by drilling.		2		33											
	363			SPT-13		100							42/45/R/-	R				
10.0				SPT-14		53							4/33/R/-	R				
	362				3	0												
				SPT-15		100							49/R/-/-	R				
11.0					4	47												
	361			SPT-16		84							23/35/R/-	R				
					5	0												
	360			SPT-17		62							R/-/-/-	R				
					6	0												
	359			SPT-18		100							R/-/-/-	R				
					7	5												
	358			SPT-19		80							R/-/-/-	R				
					8	0												
	357			SPT-20		100							R/-/-/-	R				
					9	0												
	356			SPT-21		63							R/-/-/-	R				
					10	0												
	355			SPT-22		100							R/-/-/-	R				
					11	0												
				SPT-23		100							R/-/-/-	R				
					12	0												
				SPT-24		100							R/-/-/-	R				
					13a	8												



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Ni - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Nh - ICE WITH SOIL INCLUSIONS
- Nw - ICE WITHOUT SOIL INCLUSIONS
- N? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.19

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
 I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-12

Page: 3 of 4

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 18 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 32.92 m

Date Completed: 24 Feb 12

Coordinates: 5,273,376 N, 428,460 E

Elevation: 373 m

Logged by: RT/RDW

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS		
			(17.91 to 28.5) Rock Type: GRANITE Colour: Pink, black, white, yellow Fabric and Textures: Medium to coarse grained, massive Weathering: Moderately weathered Discont. Type: Joints Discont. Orientation: Jointing at 5°, 20°, 30°, 45°, 60° and 75°. Other: Rock is highly fractured and reduced to rubble. Infill is rusty staining and sand. Small veinlets present between 25.5 and 28.5 m.															
	354			13b		100			1	3	0	32						
19.0				14		11			1	1	0	32						
	353																	
20.0				15		48			1	5	34	37						
	352																	
21.0				16		100			4	8	82	49						
	351																	
22.0				17		100			4	9	51	54						
	350																	
23.0				18		80			1	11	24	32						
	349																	
24.0				19		100			1	12	34	37						
	348																	
25.0																		
	347																	
26.0																		
	346																	

FROZEN SOIL DESCRIPTIONS:

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- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- Ic - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.19

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-12

Page: 4 of 4

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 18 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 32.92 m

Date Completed: 24 Feb 12

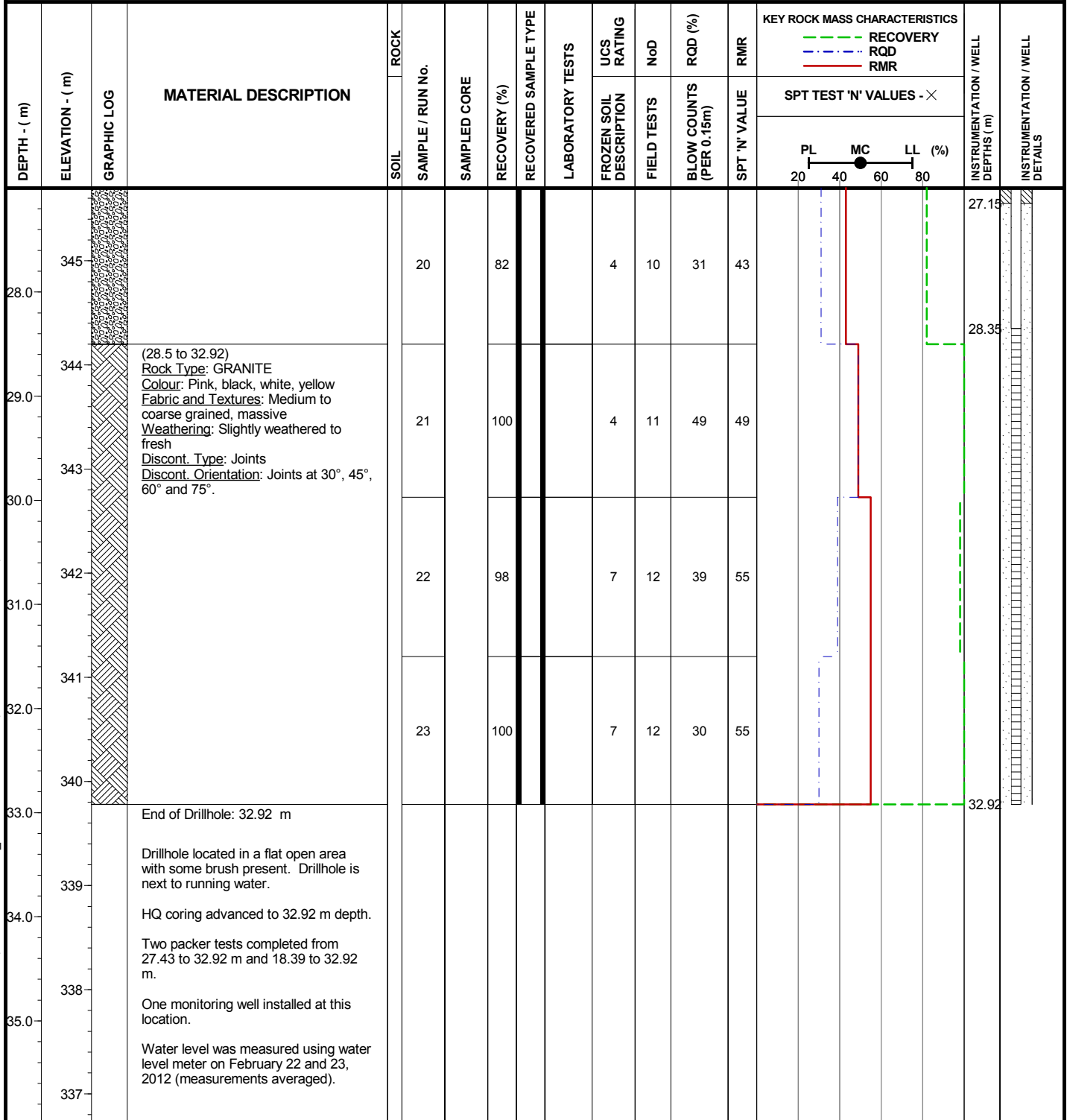
Coordinates: 5,273,376 N, 428,460 E

Elevation: 373 m

Logged by: RT/RDW

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

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- Nbe - WELL BONDED, EXCESS ICE
- Ni - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Nsi - ICE WITH SOIL INCLUSIONS
- Nic - ICE WITHOUT SOIL INCLUSIONS
- N? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- [Symbol] SPLITSPOON
- [Symbol] CORE
- [Symbol] SHELBY TUBE
- [Symbol] BENTONITE CHIPS
- [Symbol] SLOUGH
- [Symbol] WELL
- [Symbol] SAND
- [Symbol] BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.19

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP_LIB\GLB_DRILLHOLE_LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-13

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 14 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 10.54 m

Date Completed: 15 Mar 12

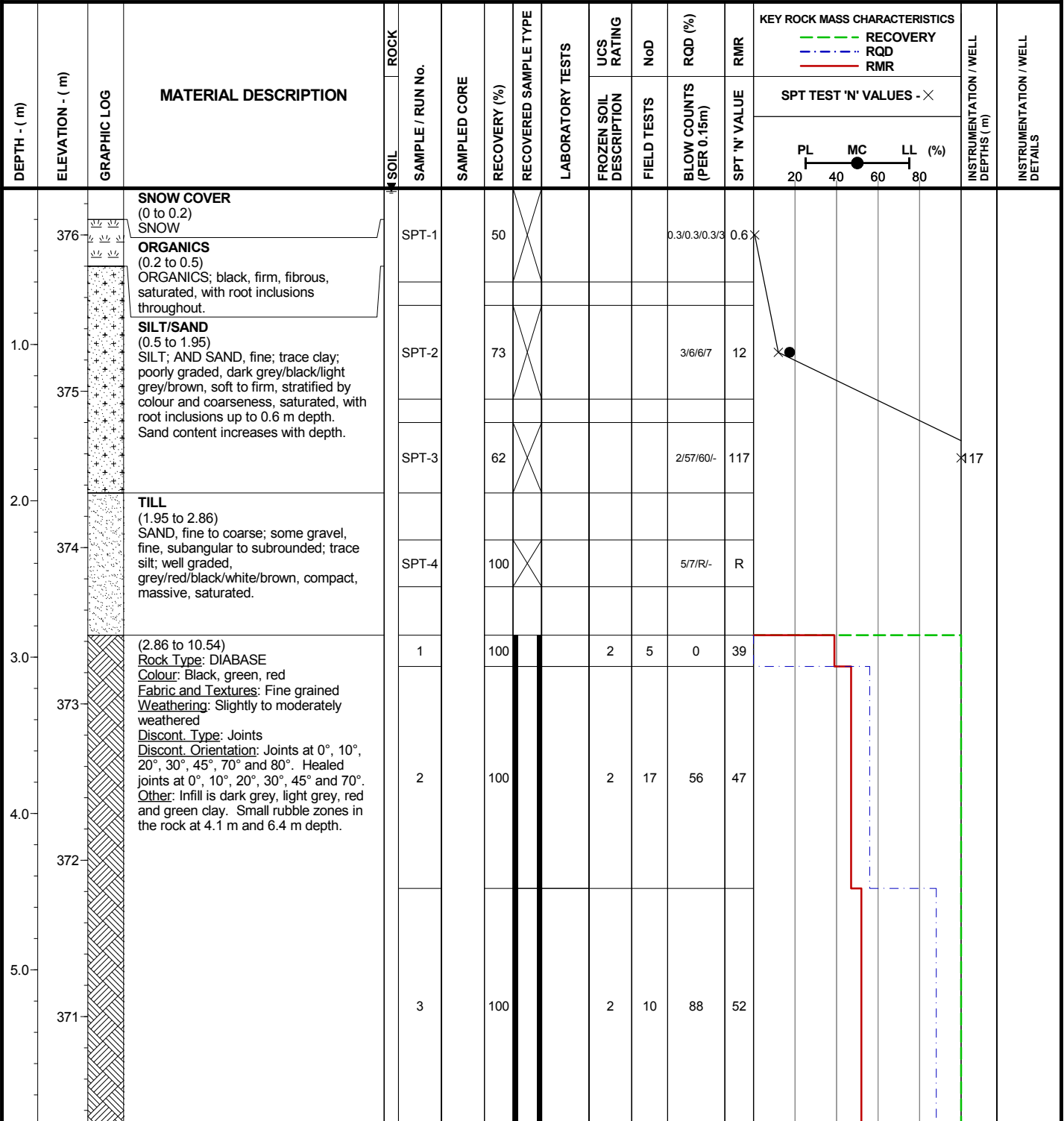
Coordinates: 5,271,159 N, 429,706 E

Elevation: 376 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
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- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.20

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\INT\LIBRARY\COTE LAKE PROJECT\KP_LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-13

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 14 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 10.54 m

Date Completed: 15 Mar 12

Coordinates: 5,271,159 N, 429,706 E

Elevation: 376 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
370						4	74			2	16	0	33						
7.0						5	100			2	3	59	48						
8.0						6	100			2	19	49	43						
9.0						7	100			2	22	37	43						
10.0																			
11.0			End of Drillhole: 10.54 m Bedrock outcrop 100 feet east of the drillhole location, bedrock outcrop and light brush to the west of the drillhole location. HQ coring advanced to 10.54 m depth. Successful packer test completed from 3.6 to 10.54 m. Water level measured using water level meter on March 15, 2012.																

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS
	SLOUGH		WELL		SAND		BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.20

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-14

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 17 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 10.00 m

Date Completed: 17 Mar 12

Coordinates: 5,270,675 N, 430,940 E

Elevation: 384 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
383			ORGANICS (0 to 0.6) ORGANICS; black, fibrous, frozen, with root inclusions throughout.			SPT-1		42					50.3/0.3/0.3	0.66	X					
1.0			ORGANICS (0.6 to 2.8) ORGANICS; black, spongy, fibrous, with root inclusions throughout.			SPT-2		25					0.2/0.2/0.2	0.5	X					
382						SPT-3		12					0.2/0.2/0.2	0.5	X					
2.0						SPT-4		25					0/0/0	0	X					
381						SPT-5		75					2/5/6/8	11	X					
3.0			SILT/SAND (2.8 to 4.35) Sandy, fine to coarse; SILT; trace clay; trace gravel, fine, subangular to subrounded; non-plastic, grey/brown/black, very soft to firm, massive, saturated. Soil becomes coarser with depth.			SPT-6		33					4/5/4/7	9	X					
4.0																				
379			COBBLES (4.35 to 4.5) COBBLES; some gravel, fine to coarse, subangular to subrounded; massive. Sample suspected partially washed by drilling.			1a		100												
						1b		100		12	0	100		77						
5.0			DIABASE (4.5 to 10) Rock Type: DIABASE Colour: Green, black, white Fabric and Textures: Fine grained Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 20°, 45°, 80° and 90°. Healed joints at 20° and 45°. Other: Infill is hard and rust coloured.			2		100		12	4	92		72						
378																				

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.21

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\INT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-14

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 17 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 10.00 m

Date Completed: 17 Mar 12

Coordinates: 5,270,675 N, 430,940 E

Elevation: 384 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
														PL	MC	LL (%)		
377	7.0		Quartz veins throughout rock.		3		100			12	4	94	72					
376	8.0				4		100			12	4	94	76					
375	9.0																	
374	10.0				5		100			12	0	100	84					
373	11.0		End of Drillhole: 10 m Drillhole located in a flat lowland with black spruce and standing water at surface. Bedrock outcrop located approximately 150 m to the east. HQ coring advanced to 10.0 m. Successful packer test completed from 5.1 to 10.0 m. Artesian conditions were noted (water level 0.2 m above the ground) on March 17, 2012.															
372																		

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.21

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-15

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 28 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 7.60 m

Date Completed: 28 Feb 12

Coordinates: 5,270,641 N, 431,332 E

Elevation: 380 m

Logged by: NWL/RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
															RECOVERY	RQD	RMR		
															SPT TEST 'N' VALUES - X				
															PL	MC	LL (%)		
	380		ORGANICS (0 to 0.1) PEAT: dark brown/black, frozen, with root inclusions throughout.			SPT-1		50	X				1/4/6/2	10	X				
1.0	379		SILT/SAND (0.1 to 1.65) SILT; some sand, fine; non-plastic, brown/light grey/dark grey, stiff, massive, wet.			SPT-2		53	X				1/2/9/8	11	X				
2.0	378		TILL (1.65 to 2.2) Gravelly, fine to coarse; SAND: fine to coarse; trace silt; well graded, dark brown/grey, compact, massive, wet.			SPT-3		67	X				3/8/15/32	23	●				
	378		(2.2 to 7.6) Rock Type: DIABASE Colour: Grey, green, white Fabric and Textures: Fine grained, massive Weathering: Slightly Weathered Discont. Type: Joints Discont. Orientation: Jointing at 0°, 10°, 20°, 40°, 80° and 90°. Healed joints at 0°, 20° and 45°. Other: Some rock is rubble from 2.2 to 6.1 m depth.			1		100			1	14	100	62					
	377					2		100			1	2	100	60					
	376					3		86			1	3	50	51					
	375					4		94			7	3	88	63					
	374																		
	373																		
	372		End of Drillhole: 7.6 m Drillhole located in fairly flat, treed area. HQ coring advanced to 7.60 m depth. Successful packer test completed from 3.0 to 7.6 m. Water level at ground surface on February 28, 2012.																
	371																		

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.22

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\INT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-16

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 15 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 5.85 m

Date Completed: 16 Mar 12

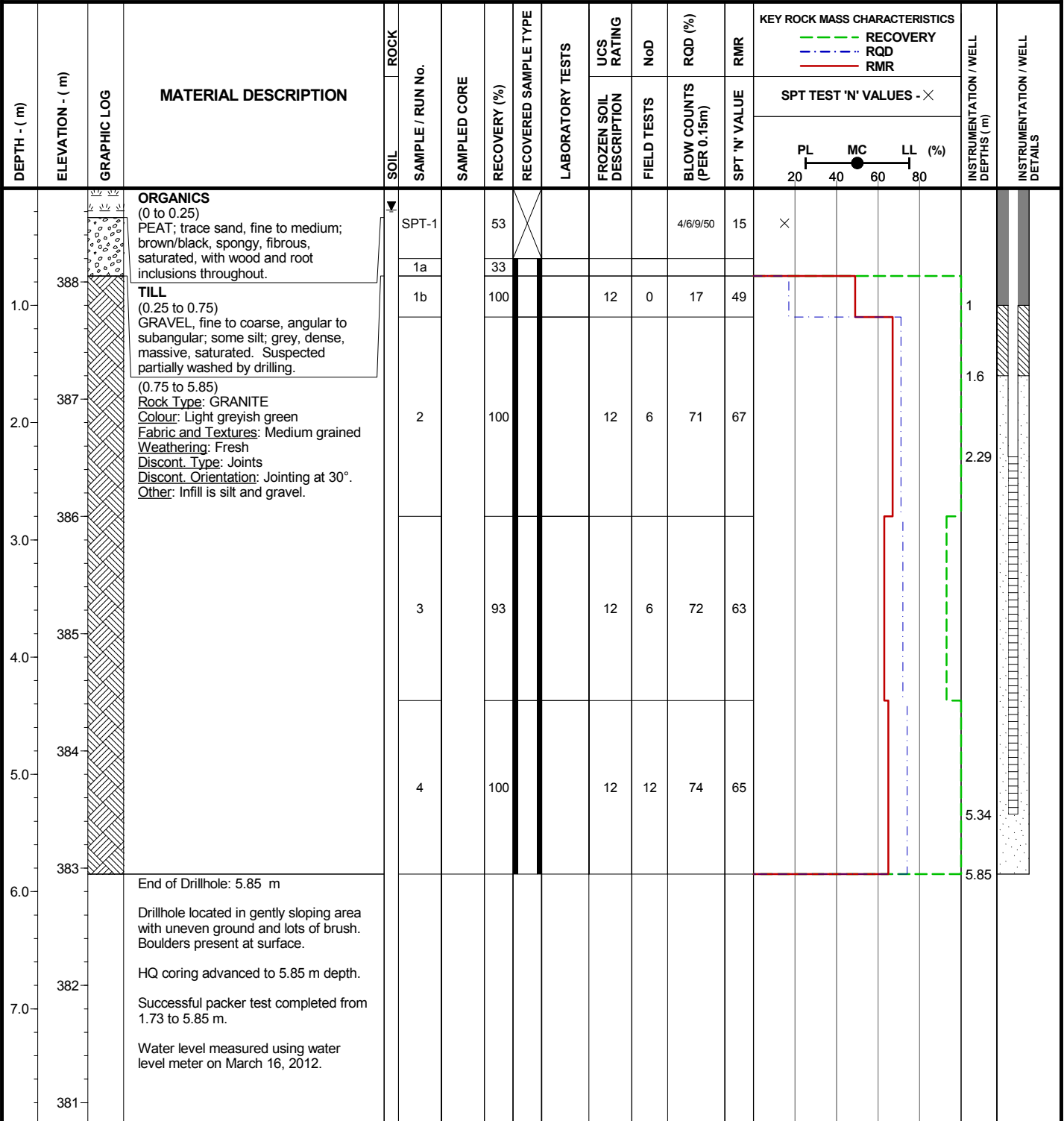
Coordinates: 5,273,065 N, 431,710 E

Elevation: 389 m

Logged by: BC

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.23

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-17

Page: 1 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 5 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 23.37 m

Date Completed: 7 Mar 12

Coordinates: 5,278,158 N, 428,941 E

Elevation: 374 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
													RECOVERY	RECOVERY	RQD			RMR
													SPT TEST 'N' VALUES - X					
													PL	MC	LL (%)			
													20	40	60	80		
	373		ORGANICS (0 to 0.3) PEAT; dark brown/light yellow, fibrous, frozen (Vx), with wood inclusions.	SPT-1		58	X		Vx		2/15/3/1	18	X					
	373		ORGANICS (0.3 to 2.02) PEAT; trace sand, fine to medium; dark brown/reddish brown, spongy, fibrous, saturated, with root inclusions throughout. Sand encountered below 1.3 m depth.	SPT-2		22	X				0/0/1/1	1	X					
	372			SPT-3		25	X				0/0/0/1	0	X					
	371		SAND (2.02 to 6.45) SAND, fine to medium; trace silt; poorly graded, grey/reddish pink/black/white, very loose to loose, massive, saturated.	SPT-4		48	X				0/1/1/3	2	X					
	370			SPT-5		55	X				1/2/3/4	5	X	●				
	370			SPT-6		50	X				2/3/3/2	6	X					
	369			SPT-7		0	X				1/2/1/1	3	X					
	368			SPT-8		33	X				1/2/2/3	4	X	●				
	368			SPT-9		22	X				1/0/0/1	0	X					
	367		NO RECOVERY (6.45 to 8.91) NO RECOVERY, lost. Suspected very loose sand.	SPT-10		0	X				0/0/0/0	0	X					
	366			SPT-11		0	X				0/1/0/0	1	X					
	365			SPT-12		0	X				0/0/1/0	1	X					

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.24

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-17

Page: 2 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 5 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 23.37 m

Date Completed: 7 Mar 12

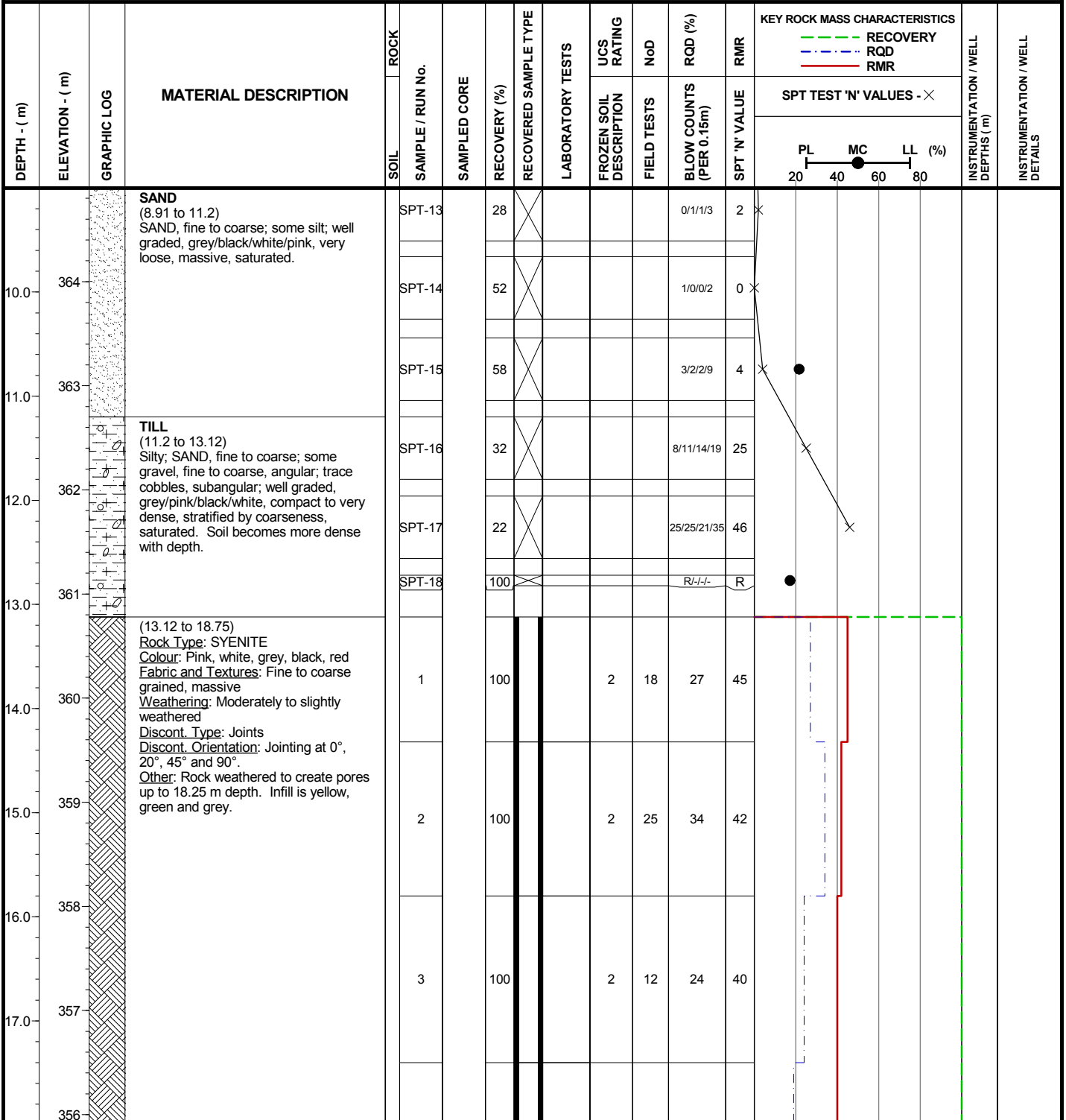
Coordinates: 5,278,158 N, 428,941 E

Elevation: 374 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nv - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Nh - ICE WITH SOIL INCLUSIONS
- Ni - ICE WITHOUT SOIL INCLUSIONS
- N? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- [X] SPLITSPOON
- [CORE] CORE
- [SHELBY] SHELBY TUBE
- [BENTONITE] BENTONITE CHIPS
- [SLOUGH] SLOUGH
- [WELL] WELL
- [SAND] SAND
- [BENTONITE] BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.24

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP_LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-17

Page: 3 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 5 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 23.37 m

Date Completed: 7 Mar 12

Coordinates: 5,278,158 N, 428,941 E

Elevation: 374 m

Logged by: RT

Inclination: -90

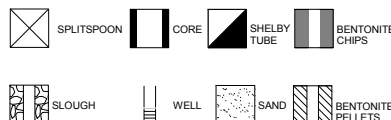
Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS		
19.0	355		(18.75 to 23.37) Rock Type: GRANITE Colour: Pink, red, black, white Fabric and Textures: Fine to coarse grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 20°, 45° and 90°. Other: Infill is greenish grey and greenish yellow with some black staining.	4		100			2	13	19	40					
20.0	354		5		100			4	10	55	57						
21.0	353		6		100			4	6	98	64						
22.0	352		7		100			4	7	69	55						
23.0	351		End of Drillhole: 23.37 m														
24.0	350		Drillhole located in gently sloping, heavily treed area. NQ coring advanced to 23.37 m depth. Successful packer tests completed from 15.01 to 23.37 m and 19.99 to 23.37 m. Water level measured using water level meter on March 7, 2012.														
25.0	349																
26.0	348																
347																	

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- Ic - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:



TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.24

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-18

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 7 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 13.84 m

Date Completed: 9 Mar 12

Coordinates: 5,278,318 N, 429,586 E

Elevation: 377 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
376			ORGANICS (0 to 0.6) PEAT; dark brown, fibrous, frozen (Vx), with root inclusion and moss throughout.			SPT-1	35			Vx		1/4/0/0	4					
375			ORGANICS (0.6 to 1.95) PEAT; trace silt; dark brown/grey, spongy, fibrous, saturated, with root inclusions throughout.			SPT-2	12					0/0/0/1	0					
374			NO RECOVERY (1.95 to 4.42) NO RECOVERY, lost.			SPT-3	47					1/1/0/0	1					
373						SPT-4	0					0/0/0/0	0					
372						SPT-5	0					0/0/0/0	0					
371			SAND (4.42 to 6.7) SAND, fine to medium; trace silt; reddish brown/grey, poorly graded, very loose to loose, massive, saturated, with root inclusions/trace peat to 5 m depth.			SPT-6	0					0/0/0/0	0					
370						SPT-7	33					0/0/0/1	0					
369			SAND/SILT (6.7 to 8.72) SAND, fine to coarse; some silt; trace gravel, fine, angular; trace clay; poorly graded, grey, compact, stratified, saturated. Sand becomes coarser with depth and silt content decreases with depth.			SPT-8	38					2/3/3/3	6					
						SPT-9	40					1/0/0/1	0					
						SPT-10	73					6/8/3/5	11					
						SPT-11	48					1/13/3/4	16					

I:\110049701\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS
	SLOUGH		WELL		SAND		BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.25

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-18

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 7 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 13.84 m

Date Completed: 9 Mar 12

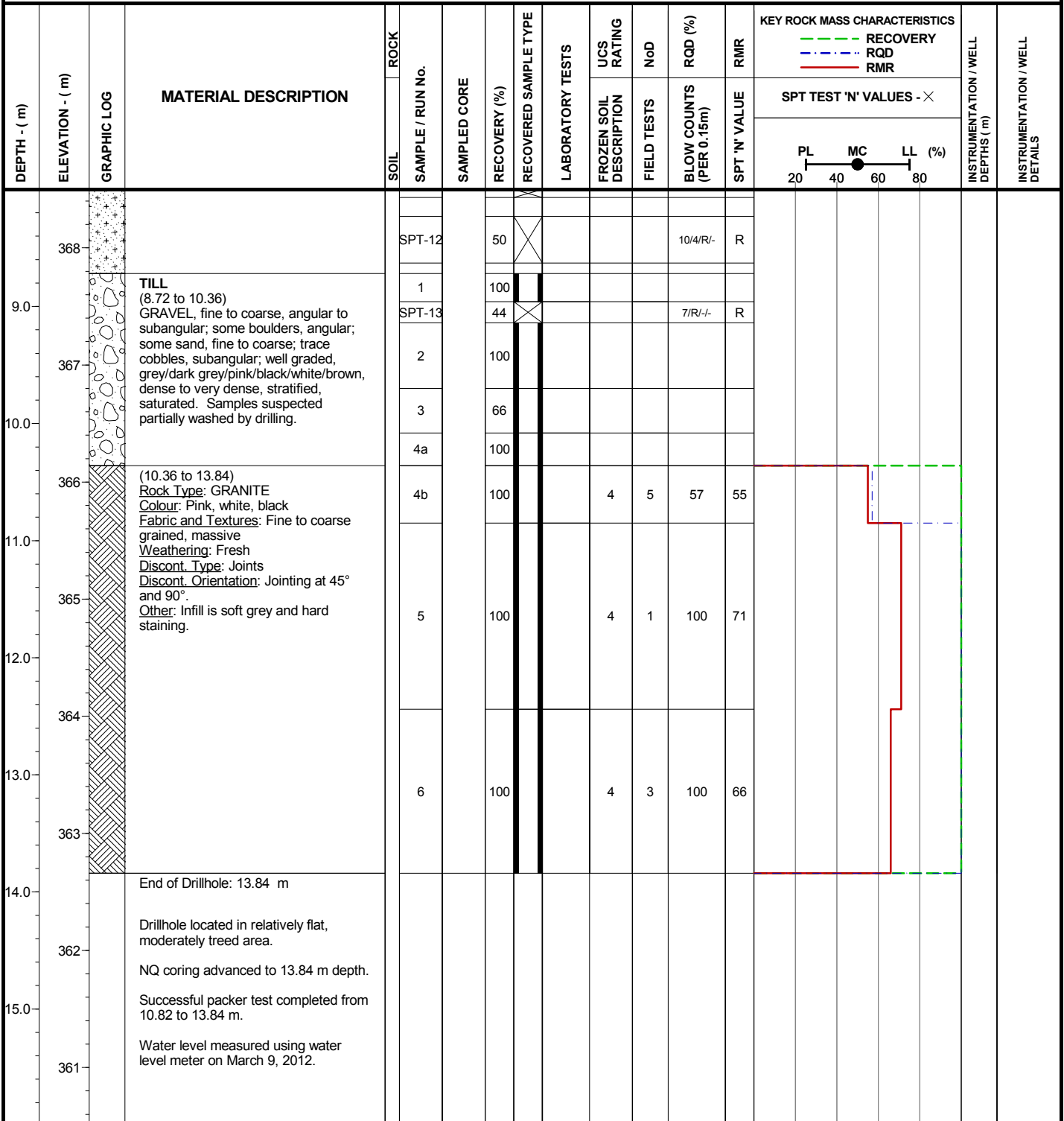
Coordinates: 5,278,318 N, 429,586 E

Elevation: 377 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.25

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-19

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 25 Feb 12

Location: Tailings Management Facility # 2

Total Depth: 9.62 m

Date Completed: 27 Feb 12

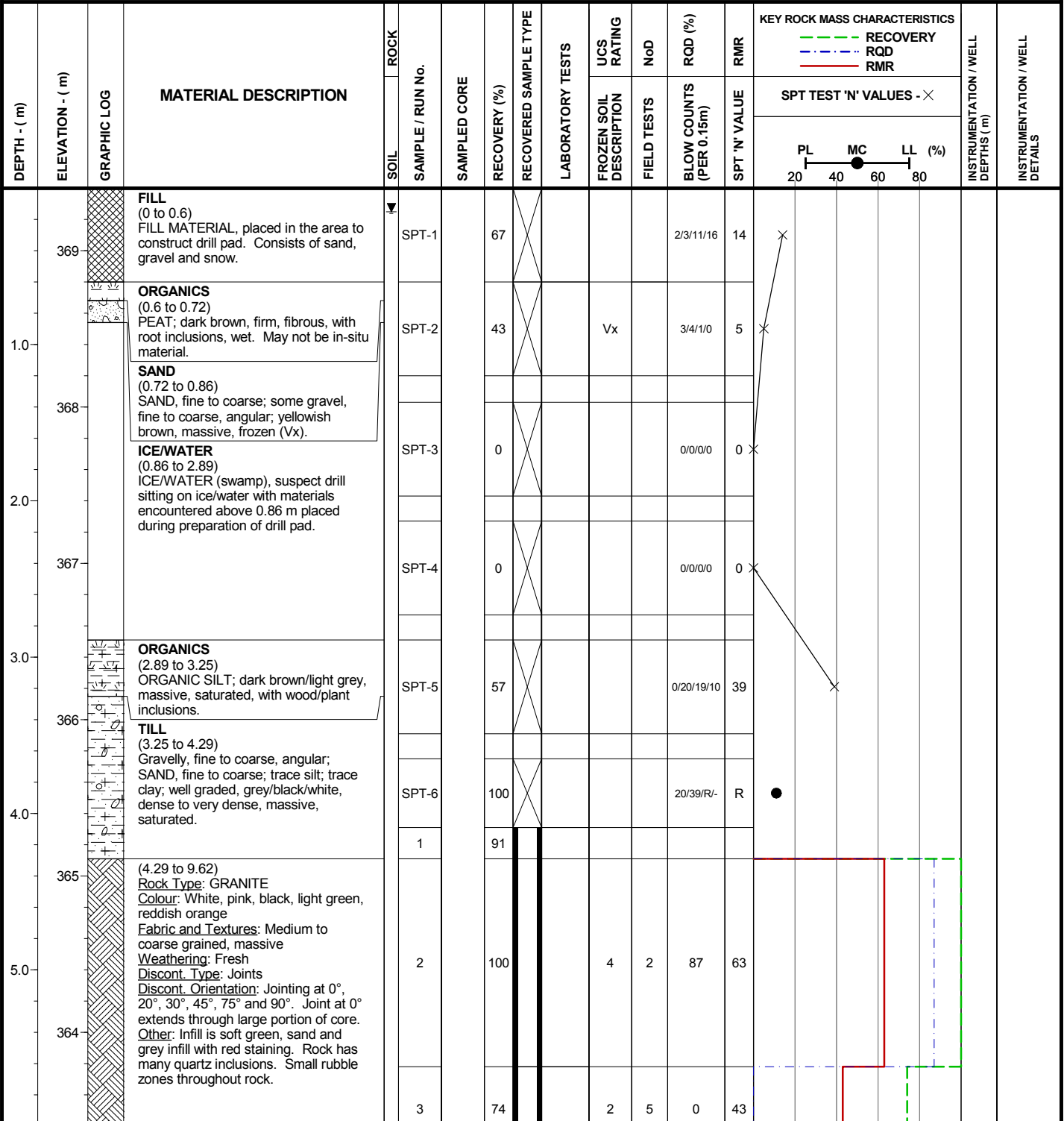
Coordinates: 5,277,434 N, 430,875 E

Elevation: 369 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
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- Vc - ICE COATINGS ON PARTICLES
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- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.26

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-19

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 25 Feb 12

Location: Tailings Management Facility # 2

Total Depth: 9.62 m

Date Completed: 27 Feb 12

Coordinates: 5,277,434 N, 430,875 E

Elevation: 369 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
7.0	363					4	100			2	12	48	43						
8.0	362					5	100			1	20	14	41						
9.0	361					6	100			4	7	76	57						
9.62	360		End of Drillhole: 9.62 m Drillhole located on prepared drill pad where bulldozer pushed fill material over naturally occurring snow/ice cover at drill site. NQ coring advanced to 9.62 m. Successful packer test completed from 5.37 to 9.62 m. Water level measured using water level meter on February 26 and 27, 2012 (measurements averaged).			7	100			4	5	68	57						
10.0	359																		
11.0	358																		

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
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- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLIT SPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.26

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-20

Page: 1 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 8 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 17.88 m

Date Completed: 14 Mar 12

Coordinates: 5,274,597 N, 429,698 E

Elevation: 374 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK	SOIL	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	KEY ROCK MASS CHARACTERISTICS				INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
											UCS RATING	NoD	RQD (%)	RMR		
											SPT TEST 'N' VALUES - X					
											PL	MC	LL (%)			
											20	40	60	80		
			ORGANICS (0 to 0.45) ORGANICS; black, fibrous, frozen, with root inclusions throughout.			SPT-1		62			Nb	1/5/3/4	8			
			SAND/SILT (0.45 to 6.75) Silty; SAND, fine to coarse; trace gravel, fine to coarse, subangular to subrounded; trace clay; poorly graded, rusty brown/light grey/black/red/white, loose to compact, stratified by coarseness, moist to saturated. Clay mainly occurs in lenses between 1.5 and 2.1 m depth. Soil is saturated below 1 m depth.			SPT-2		80				2/3/8/4	11			
						SPT-3		83				1/4/7/10	11			
						SPT-4		33				8/15/8/7	23			
						SPT-5		42				1/6/4/6	10		3.2	
						SPT-6		55				4/4/4/4	8			
						SPT-7		50				4/4/5/5	9			
						SPT-8		58				4/5/6/8	11		6	
						SPT-9		58				5/4/4/5	8			

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
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- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLIT SPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.27

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
 I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-20

Page: 2 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 8 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 17.88 m

Date Completed: 14 Mar 12

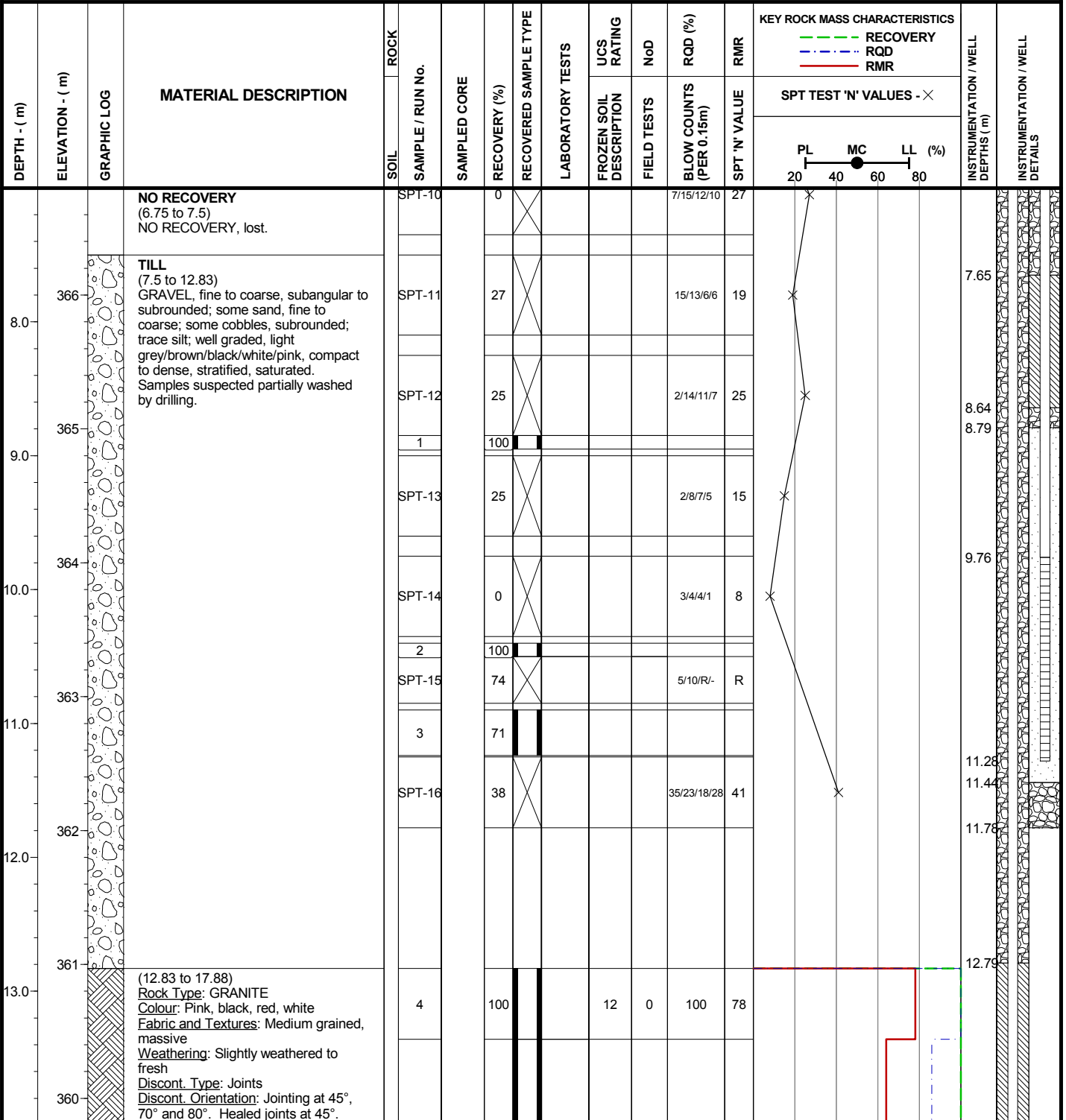
Coordinates: 5,274,597 N, 429,698 E

Elevation: 374 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

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- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.27

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-20

Page: 3 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 8 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 17.88 m

Date Completed: 14 Mar 12

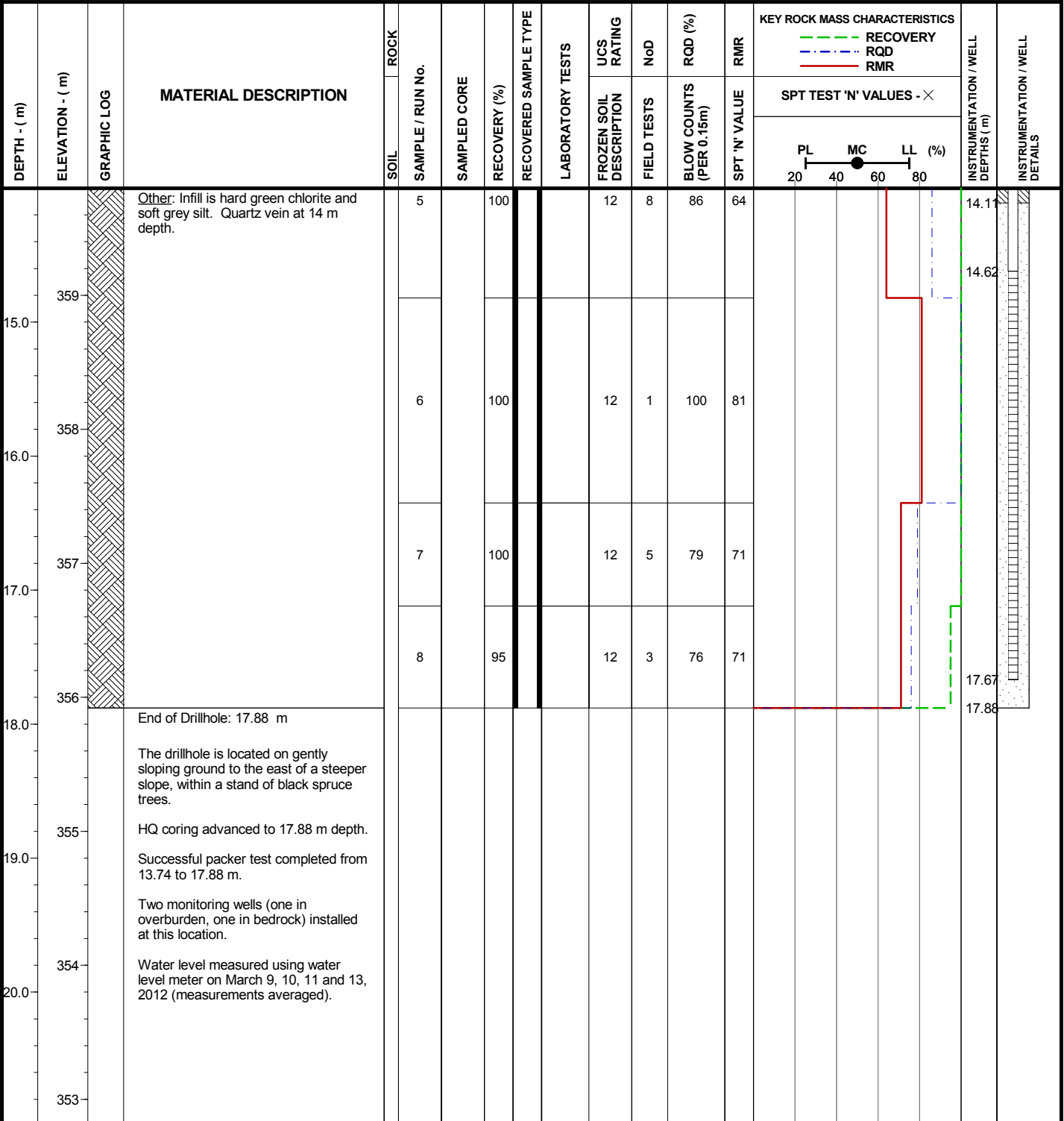
Coordinates: 5,274,597 N, 429,698 E

Elevation: 374 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

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- Nbe - WELL BONDED, EXCESS ICE
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- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- Ic - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
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**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.27

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP_LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-21

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 24 Feb 12

Location: Tailings Management Facility # 2

Total Depth: 8.25 m

Date Completed: 25 Feb 12

Coordinates: 5,274,636 N, 430,008 E

Elevation: 372 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL SAMPLE / RUN No.	ROCK SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
														RECOVERY	RQD	RMR		
														SPT TEST 'N' VALUES - X				
														PL	MC	LL (%)		
372			ORGANICS (0 to 0.14) PEAT; dark brown/yellowish brown/green, fibrous, frozen (Vx), with wood, plant and ice inclusions.	SPT-1			65	X		Vx		5/31/4/2	35					
			ORGANICS (0.14 to 2) PEAT; some silt; yellowish brown/dark brown, firm, fibrous, saturated, with wood and root inclusions throughout. Silver flecks in sample from 1.4 to 2.0 m.	SPT-2			17	X				0/0/0/0	0					
			ORGANICS (2 to 2.89) ORGANIC SILT; some clay; trace sand; non-plastic, light brown/light green, firm, saturated.	SPT-3			55	X				0/0/7/4	7					
			TILL (2.89 to 3.04) SAND, fine to coarse; AND GRAVEL, fine to coarse; well graded, grey, very dense, massive, saturated.	SPT-4			88	X				2/4/7/6	11					
			DIABASE (3.04 to 8.25) Rock Type: DIABASE Colour: Black, pink, grey, white, red Fabric and Textures: Fine to coarse grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 20°, 45°, 60° and 90°. Other: Infill is soft and green. Numerous quartz intrusions throughout rock.	SPT-5			100	X				R-I-I-I-	R					
				1			100			12			61					
				2			100			12	9	59	61					
				3			100			12	14	82	65					
				4			100			12	8	81	65					
				5			100			12	1	95	72					
			End of Drillhole: 8.25 m Drillhole located in relatively flat, open area close to stream. Small bushes present at surface. NQ coring advanced to 8.25 m depth. Water level was measured using water level meter on February 24 and 25, 2012 (measurements averaged).															

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
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- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- IS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.28

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-22

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 10 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 12.82 m

Date Completed: 12 Mar 12

Coordinates: 5,274,657 N, 430,202 E

Elevation: 377 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK SAMPLE / RUN No.	SOIL	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	ROD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
														RECOVERY	RECOVERY	RQD			RMR
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
			ORGANICS (0 to 0.08) PEAT; trace sand; dark brown, frozen (Vx), with root inclusions.	SPT-1			87	X		Vx		2/3/-	-						
			SAND (0.08 to 1.9) SAND, fine to coarse; trace silt; well graded, golden brown, loose to compact, massive, dry to moist, with root inclusions up to 0.3 m depth.	SPT-2			75	X				2/2/4/5	6	X					
				SPT-3			33	X				7/5/7/6	12	●	X				
			TILL (1.9 to 4.53) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace silt; trace cobbles, subangular; well graded, golden brown/white/black/pink/grey, compact to very dense, stratified, moist to saturated.	SPT-4			25	X				3/4/10/11	14	X					
				SPT-5			13	X				2/4/8/20	12	X					
				SPT-6			33	X				28/31/35/28	66	X					
				SPT-7			82	X				50/35/20/R	55	X					
			(4.53 to 6.73) Rock Type: DIABASE Colour: Black, blueish black Fabric and Textures: Fine grained, massive Weathering: Slightly weathered to fresh Discont. Type: Joints Discont. Orientation: Jointing at 0°, 20°, 45° and 90°. Other: Rock is highly fractured. Infill is green chlorite, red staining, and soft greyish green silt.	1			100			7	9	35	48						
				2			100			7	5	0	44						
				3			100			12	8	50	53						
				4			100			12	14	32	53						
			(6.73 to 12.82) Rock Type: DIABASE Colour: Blueish black Fabric and Textures: Fine grained; massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 20°, 45° and 90°.	5			100			12	11	50	56						
				6			100			12	6	51	63						

FROZEN SOIL DESCRIPTIONS:

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- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.29

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-22

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 10 Mar 12

Location: Tailings Management Facility # 2

Total Depth: 12.82 m

Date Completed: 12 Mar 12

Coordinates: 5,274,657 N, 430,202 E

Elevation: 377 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									FROZEN SOIL DESCRIPTION	FIELD TESTS	BLOW COUNTS (PER 0.15m)		
			Other: Infill is soft grey or greenish grey silt, red staining and chlorite. Small fractured zone from 8.7 to 8.8 m depth.															
9.0	368					7	100			12	11	59	59					
	367					8	100			12	4	75	61					
10.0	366					9	100			12	10	81	65					
	365					10	97			7	6	88	64					
12.0	364																	
13.0	363		End of Drillhole: 12.82 m Drillhole located in a gently sloping, moderately treed area, close to the edge of an open drainage valley. NQ coring advanced to 12.82 m depth. Successful packer tests completed from 6.11 to 12.82 m and 9.15 to 12.82 m. Water level measured using water level meter on March 11 and 12, 2012 (measurements averaged). Suspect SPT-7 curved along overburden/bedrock contact.															
15.0	361																	

I:\110049701\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
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- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
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- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.29

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-23

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 29 Feb 12

Location: Tailings Management Facility # 2

Total Depth: 10.26 m

Date Completed: 2 Mar 12

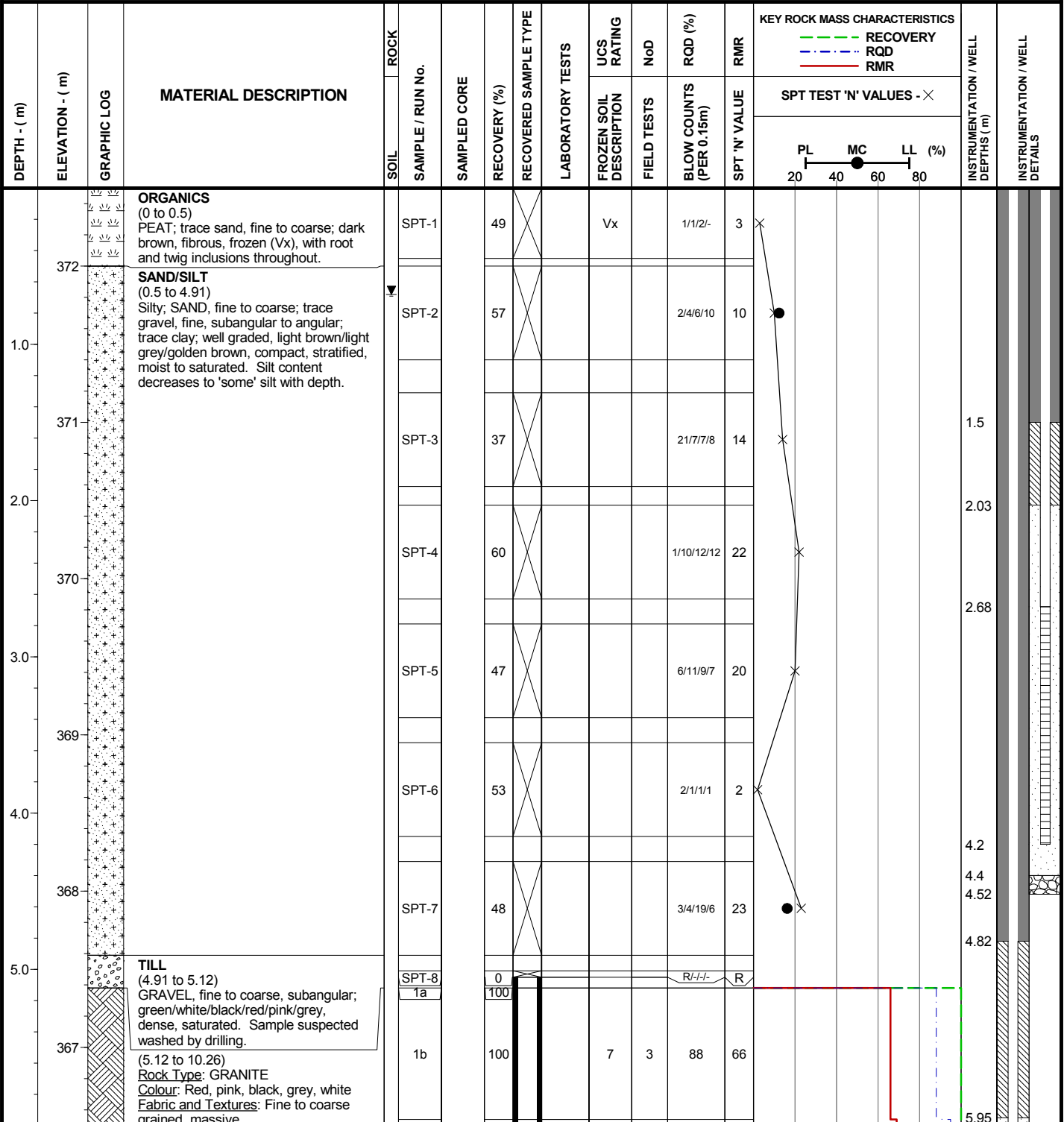
Coordinates: 5,277,470 N, 429,412 E

Elevation: 373 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- [Symbol] SPLITSPOON
- [Symbol] CORE
- [Symbol] SHELBY TUBE
- [Symbol] BENTONITE CHIPS
- [Symbol] SLOUGH
- [Symbol] WELL
- [Symbol] SAND
- [Symbol] BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.30

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-23

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 29 Feb 12

Location: Tailings Management Facility # 2

Total Depth: 10.26 m

Date Completed: 2 Mar 12

Coordinates: 5,277,470 N, 429,412 E

Elevation: 373 m

Logged by: RT

Inclination: -90

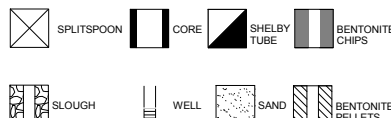
Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	PL			MC
366			Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 45° and 90°. Other: Infill is soft gold/green in colour with some hard staining. Some white/black veins present in rock.		2		100			7	4	95	69						
7.0																			
365					3		100			7	3	84	64						
8.0																			
364					4		100			4	2	100	64						
9.0																			
363																			
363					5		100			7	1	90	66						
10.0																			
362			End of Drillhole: 10.26 m Drillhole located in gently sloping, open area, near edge of stream. HQ coring advanced to 10.26 m depth. Successful packer test completed from 6.53 to 10.26 m. Two monitoring wells (one in overburden, one in bedrock) installed at this location. Water level measured using water level meter on March 2, 2012.																
11.0																			
361																			

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:



**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.30

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-24&RD

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 27 Feb 12

Location: Tailings Management Facility # 2

Total Depth: 9.11 m

Date Completed: 29 Feb 12

Coordinates: 5,277,378 N, 430,594 E

Elevation: 370 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
370			ORGANICS (0 to 0.6) PEAT; fibrous, frozen (Vx), with visible ice, root and twig inclusions.	SPT-1				100	X		Vx		2/11/2/0	13	X					
369			TILL (0.6 to 4.21) SAND, fine to coarse; AND GRAVEL, fine to coarse, angular to subangular; trace silt; well graded, grey/golden brown/dark brown/pink/black/white, compact, massive, wet to saturated.	SPT-2				60	X				3/7/10/10	17	X					
368				SPT-3				43	X				5/8/6/6	14	X					
367				SPT-4				58	X				7/8/8/8	16	X			2.1		
367				SPT-1RD				38	X				5/6/5/3	11	●			2.95		
366				SPT-5				25	X				13/15/6/4	21	X					
366				SPT-2RD				38	X				5/16/11/11	27	X					
365			(4.21 to 9.11) Rock Type: GRANITE Colour: Pink, grey, white, reddish purple, with black flecks Fabric and Textures: Fine to medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45°, 60°, 70° and 90°. Other: Infill is hard red/dark grey staining and soft grey silt. Rock becomes more fine grained and stronger with depth.	1				100			7	1	100	67				4.15		
				2				100			7	2	87	64				4.47		
																		4.67		
																		4.97		
																		5.63		

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.31

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I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-24&RD

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 27 Feb 12

Location: Tailings Management Facility # 2

Total Depth: 9.11 m

Date Completed: 29 Feb 12




Coordinates: 5,277,378 N, 430,594 E

Elevation: 370 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH









DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
7.0	363					3			7	2	96	73						
8.0	362					4			7	7	98	65						
9.0	361					5			12	7	44	53						
9.05	361		End of Drillhole: 9.11 m			6			12	1	0	52						
10.0	360		Drillhole located at bottom of small hill in open, flat area with little vegetation. Frozen stream located nearby. HQ coring advanced to 9.11 m depth. Successful packer test completed from 4.62 to 9.11 m. Two monitoring wells (one in overburden, one in bedrock) installed at this location. During drilling of second drillhole for overburden monitoring well installation, two additional SPT samples were collected in overburden (SPT-1RD and SPT-2RD). Water level measured using water level meter on February 29, 2012.															
11.0	359																	

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FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

-  SPLITSPOON
-  CORE
-  SHELBY TUBE
-  BENTONITE CHIPS
-  SLOUGH
-  WELL
-  SAND
-  BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.31

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-25

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 29 Feb 12

Location: Tailings Management Facility # 2

Total Depth: 14.95 m

Date Completed: 2 Mar 12

Coordinates: 5,276,155 N, 429,754 E

Elevation: 372 m

Logged by: NWL/RSM/CLS

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK	SOIL	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
372			ORGANICS (0 to 0.75) PEAT; dark brown, frozen (Nb), with root inclusions.			SPT-1		87	X		Nb		5/12/1.5/1.5	13.5	X					
371			ORGANICS (0.75 to 2.1) PEAT; black, saturated, with root inclusions.			SPT-2		17	X				0/0/0/0	0	X					
370			NO RECOVERY (2.1 to 3) NO RECOVERY, lost.			SPT-3		17	X				0/0/0/0	0	X					
369			SILT/SAND (3 to 5.25) Sandy, fine, SILT; trace clay; non-plastic, light grey, soft to very soft, saturated.			SPT-4		0	X				0/0/0/0	0	X					
368						SPT-5		92	X				1/5/5/6	10	X					
367						SPT-6		92	X				2/4/4/5	8	X					
366			SAND/SILT/CLAY (5.25 to 8.6) SAND, fine to coarse; AND SILT; some clay; poorly graded, non-plastic, light grey/dark brown/black, very loose to compact, laminated to stratified, saturated. Sand content increases with depth and soil generally becomes coarser with depth.			Shelby1													5.03	
365						SPT-7		62	X				1/1/2/2	3	X				5.51	
364						SPT-8		67	X				2/3/2/2	5	X				5.84	
						SPT-9		70	X				2/3/3/3	6	X					
						SPT-10		100	X				3/1/0.5/0.5	1.5	X					
						SPT-11		53	X				3/13/15/R	28	X				8.89	

FROZEN SOIL DESCRIPTIONS:

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- Nbe - WELL BONDED, EXCESS ICE
- Nx - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- NH - ICE WITH SOIL INCLUSIONS
- NI - ICE WITHOUT SOIL INCLUSIONS
- N? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.32

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Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-25

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 29 Feb 12

Location: Tailings Management Facility # 2

Total Depth: 14.95 m

Date Completed: 2 Mar 12

Coordinates: 5,276,155 N, 429,754 E

Elevation: 372 m

Logged by: NWL/RSM/CLS

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
363			TILL (8.6 to 11.55) COBBLES, subrounded; MUCH GRAVEL, fine to coarse, angular to subrounded; some boulders, subangular; black/grey/pink/white/red, stratified. Sample suspected washed by drilling.			2	87										9.15 9.3	
362																	10.02	
361						3	94										10.75	
360			(11.55 to 13.25) Rock Type: GRANITE Colour: Black, grey, red, pink Fabric and Textures: Medium to coarse grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 60° and 85° Other: Infill is chlorite. Small quartz veins throughout rock.			4	100			7	3	80	66				11.58	
359						5	100			7	5	92	69					
358			(13.25 to 14.95) Rock Type: QUARTZITE Colour: Pink, white, grey, black, orange Fabric and Textures: Coarse grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 20°, 60° and 85° Other: Infill is chlorite, black shiny mineral and black/dark red staining.			6	100			12	2	82	67					
357			End of Drillhole: 14.95 m The drillhole is located in an open, flat, swampy area. A stream with fast moving running water is located close to the drill site. HQ coring advanced to 14.95 m depth. Successful packer test completed from 11.35 to 14.95 m. Two monitoring wells (one in overburden, one in bedrock) installed at this location. Water level measured using water level meter on March 1, 2012.			7	100			12	3	100	74				14.63 14.95	

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I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nv - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- NH - ICE WITH SOIL INCLUSIONS
- NI - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.32

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-26

Page: 1 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 19 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 24.00 m

Date Completed: 23 Feb 12

Coordinates: 5,274,243 N, 431,259 E

Elevation: 383 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
1.0	382		ORGANICS (0 to 2.1) PEAT; dark brown/golden yellow, spongy, fibrous, saturated, with root and plant inclusions throughout. Suspect top portion of drillhole was ice cover (unknown thickness).		SPT-1	0	X					1/0/0/0	0	X				
					SPT-2	0	X					0/0/0/0	0	X				
2.0	381		SILT (2.1 to 3.6) SILT; some clay; trace sand, fine; dark brown/light brown/grey, very stiff, stratified by colour, saturated. Soil grades from brown to grey with depth.		SPT-3	92	X					0/0/0/0	0	X				
					SPT-4	72	X					0/3/9/11	12	X				
3.0	380		TILL (3.6 to 17.7) Till consists of stratified layers varying from: Gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; trace silt; trace cobbles; to SAND, fine to coarse; AND SILT; some gravel, fine, angular; trace clay. Till is generally well graded, with some poorly graded sections, grey/pink/white/black/red, compact to very dense, saturated. Some samples suspected washed by drilling. No recovery from 6.35 to 7.4 m due to advancement of casing - assumed same soil as surrounding samples.		SPT-5	58	X					2/6/7/7	13	X				
					SPT-6	42	X					2/5/2/3	7	X				
4.0	379				SPT-7	63	X					4/6/5/13	11	X				
5.0	378				SPT-8	67	X					2/6/10/12	16	X				
6.0	377				SPT-9	88	X					11/20/R/-	R	X				
7.0	376																	
8.0	375				1	100												
					SPT-10	100	X					R/-/-/-	R	X				

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I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

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- Vc - ICE COATINGS ON PARTICLES
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- Hs - ICE WITH SOIL INCLUSIONS
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- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.33

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-26

Page: 2 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 19 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 24.00 m

Date Completed: 23 Feb 12

Coordinates: 5,274,243 N, 431,259 E

Elevation: 383 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									PL	MC	LL (%)		
			TILL (3.6 to 17.7) Till consists of stratified layers varying from: Gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; trace silt; trace cobbles; to SAND, fine to coarse; AND SILT; some gravel, fine, angular; trace clay. Till is generally well graded, with some poorly graded sections, grey/pink/white/black/red, compact to very dense, saturated. Some samples suspected washed by drilling. No recovery from 6.35 to 7.4 m due to advancement of casing - assumed same soil as surrounding samples.				86											
					SPT-11		100						37/R/-	R				
10.0	373					3	100											
					SPT-12		67						4/12/22/33	34				
11.0	372					4	54											
					SPT-13		83						30/40/45/41	85				
					SPT-14		80						21/50/37/45	87				
12.0	371					5	100											
					SPT-15		100						28/R/-	R				
13.0	370					6	51											
					SPT-16		88						22/35/38/50	73				
14.0	369					7	44											
					SPT-17		88						32/47/50/50	97				
15.0	368					8	75											
					SPT-18		88						17/39/42/31	81				
16.0	367					9a	100											
17.0	366					9b	100											
				(17.7 to 24) Rock Type: GRANITE														

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.33

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-26

Page: 3 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 19 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 24.00 m

Date Completed: 23 Feb 12

Coordinates: 5,274,243 N, 431,259 E

Elevation: 383 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS		
19.0	364		<p>Colour: Pink, black, grey, purple, with white speckles Fabric and Textures: Fine to coarse grained, massive Weathering: Slightly to moderately weathered Discont. Type: Joints Discont. Orientation: Jointing at 20°, 35°, 45°, 60° and 90°. Other: Portions of rock are reduced to rubble. Infill is hard and greenish gold, soft and grey/brown or dark staining. Dark coloured dyke in rock between 19.1 and 22.7 m.</p>			100			1	20	0	36				18.1	
20.0	363					100			1	10	21	34				19.8	
21.0	362					100			1	23	37	42				20.25	
22.0	361					94			1	24	26	48				23.3	
23.0	360					85			1	20	0	39				23.7	
24.0	359		<p>End of Drillhole: 24 m</p> <p>Drillhole located in flat open area with some tree stumps/dead trees surrounding the drill site.</p> <p>HQ coring advanced to 24.0 m depth.</p> <p>One monitoring well installed at this location.</p>												23.95		
25.0	358																
26.0	357																

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.33

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP_LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-27

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 16 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 8.20 m

Date Completed: 18 Feb 12

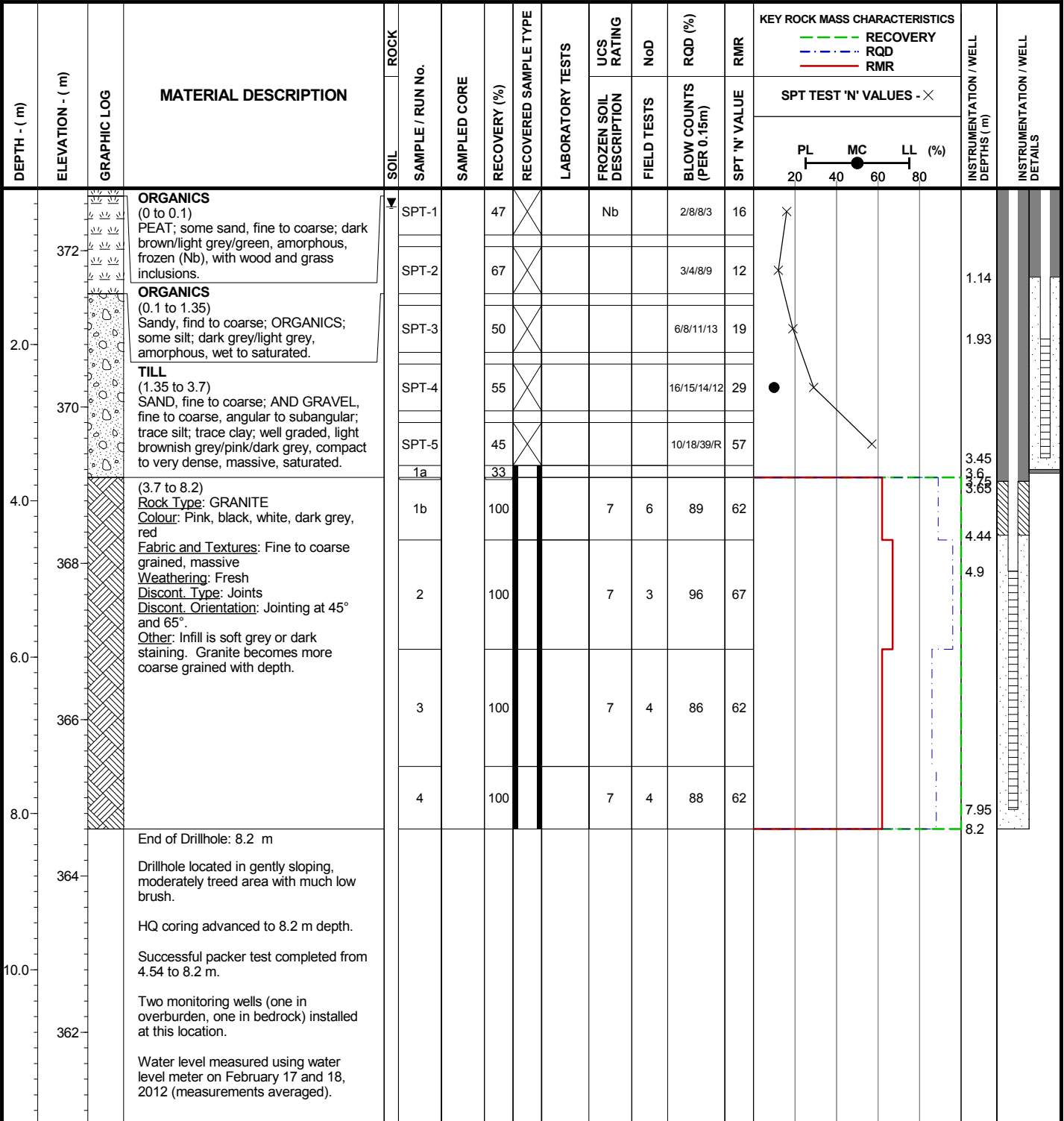
Coordinates: 5,273,409 N, 429,277 E

Elevation: 373 m

Logged by: RT

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- [X] SPLITSPOON
- [Core] CORE
- [Shelby] SHELBY TUBE
- [Bentonite] BENTONITE CHIPS
- [Slough] SLOUGH
- [Well] WELL
- [Sand] SAND
- [Bentonite Pellets] BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.34

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-28

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 18 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 7.50 m

Date Completed: 19 Mar 12

Coordinates: 5,271,802 N, 427,957 E

Elevation: 387 m

Logged by: BC

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
														RECOVERY	RQD	RMR			
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
387			ORGANICS (0 to 0.75) PEAT; some sand, fine to coarse; light brown/grey, firm, fibrous, frozen to saturated, with wood pieces and root inclusions throughout.	SPT-1			23	X		Nb		1/0/4/4	4	X					
386			TILL (0.75 to 4.5) SAND, fine to coarse; some cobbles, subangular; some gravel, fine, angular to subangular; some silt; trace clay; well graded, grey/brown, compact to dense, massive, saturated.	SPT-2			65	X				2/7/6/8	13	●					
385				SPT-3			50	X				5/11/14/18	25	X					
384				1			70												
384				SPT-4			37	X				7/13/15/15	28	X					
383				SPT-5			67	X				12/18/16/13	34	●					
383				SPT-6			59	X				13/R/-/	R	X					
382			(4.5 to 7.5) Rock Type: GRANITE Colour: Pink, grey Fabric and Textures: Medium grained, massive Weathering: Slightly weathered Discont. Type: Joints Discont. Orientation: Jointing at 45° and 85° Other: Infill is silt, sand and red staining.	2			100			7	8	77	59			4.8			
381				3			100			7	7	88	59			5.4			
380																5.68			
380			End of Drillhole: 7.5 m													7.2			
379			The drillhole is located in dense woodland (mainly pine trees) on a gradual slope.													7.5			
379			HQ coring advanced to 7.5 m depth.																
378			One monitoring well installed at this location.																
378			Water level measured using water level meter on March 18, 2012.																

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nv - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- NH - ICE WITH SOIL INCLUSIONS
- NI - ICE WITHOUT SOIL INCLUSIONS
- N? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.35

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-29

Page: 1 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 24 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 20.20 m

Date Completed: 28 Feb 12

Coordinates: 5,272,540 N, 429,617 E

Elevation: 374 m

Logged by: RDW/NWL/CLS

Inclination: -90

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK	SOIL	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
374			ORGANICS (0 to 2.36) PEAT; dark brown, spongy, fibrous, wet to saturated. Limited snow cover overlying peat.			SPT-1		25	X				3/0/0/0	0	X					
1.0						SPT-2		3	X				0/0/1/0	1	X					
373						SPT-3		0	X				0/0/0/0	0	X					
2.0						SPT-4		63	X				2/2/2/4	4	X	●				
372			SILT/SAND (2.36 to 5.33) Silty; SAND, fine to medium; some clay; poorly graded, light grey, loose to compact, stratified by coarseness, saturated. Silt content increases with depth, sand and clay content decrease with depth.			SPT-5		100	X				0/1/5/5	6	X					
3.0						SPT-6		74	X				7/9/7/10	16	X					
371						SPT-7		74	X				7/5/5/6	10	X	●				
4.0						SPT-8		49	X				2/4/3/3	7	X					
370			SAND (5.33 to 6.71) SAND, fine to coarse; some silt; poorly graded, light grey, very loose to loose, massive, saturated. Sand flows and heaves into casing.			SPT-9		33	X				0/1/1/1	2	X					
5.0																				
369																				
6.0																				
368																				
7.0			NO RECOVERY (6.71 to 12.04) NO RECOVERY, lost. One SPT conducted over this interval indicated soil that is very loose (suspected sand/silt).																	

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.36

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-29

Page: 2 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 24 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 20.20 m

Date Completed: 28 Feb 12

Coordinates: 5,272,540 N, 429,617 E

Elevation: 374 m

Logged by: RDW/NWL/CLS

Inclination: -90

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								SPT TEST 'N' VALUES - X	PL	MC		
366			NO RECOVERY (6.71 to 12.04) NO RECOVERY, lost. One SPT conducted over this interval indicated soil that is very loose (suspected sand/silt).														
9.0					SPT-10	0					1/0/1/1	1	X				
365																	
10.0																	
364																	
11.0																	
363																	
12.0																	
362			TILL (12.04 to 15.11) COBBLES, subangular; MUCH SAND, fine to coarse; some gravel, coarse, angular to subangular; poorly graded, light grey/black/pink/white/green, compact, stratified, saturated. Some samples suspected partially washed by drilling.		SPT-11	49					1/8/12/7	20	X				
13.0																	
361																	
14.0																	
360					1	63											
15.0					2a	48											
359			(15.11 to 20.2) Rock Type: GRANITE Colour: Grey, pink, black, red Fabric and Textures: Medium to coarse grained, massive Weathering: Fresh		2b	100		7			99	71					

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.36

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-29

Page: 3 of 3

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 24 Feb 12

Location: Tailings Management Facility # 1

Total Depth: 20.20 m

Date Completed: 28 Feb 12

Coordinates: 5,272,540 N, 429,617 E

Elevation: 374 m

Logged by: RDW/NWL/CLS

Inclination: -90

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS		
358			<p>Discont. Type: Joints</p> <p>Discont. Orientation: Jointing at 5°, 15°, 45°, 60°, 75° and 85°.</p> <p>Other: Infill is grey clay, brown sand, chlorite and black staining.</p>														
17.0	357			3		98			7		79	60				16.3	
18.0	356			4		97			7		70	58				17.12	
19.0	355			5		100			7		62	56				20.17	
20.0	354		<p>End of Drillhole: 20.2 m</p> <p>The drillhole is located in a moderately forested area.</p> <p>HQ coring advanced to 20.2 m depth.</p> <p>Successful packer test completed from 16.06 to 20.2 m.</p> <p>One monitoring well installed at this location.</p> <p>Water level measured using water level meter on February 27, 2012.</p>													20.2	
21.0	353																
22.0	352																
23.0	351																

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.36

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-30

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 18 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 9.16 m

Date Completed: 25 Mar 12

Coordinates: 5,272,106 N, 430,387 E

Elevation: 384 m

Logged by: SWK/RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	ROD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
	383		ORGANICS (0 to 0.4) ORGANICS; black, spongy, fibrous, frozen (Nb), with root inclusions. SILT (0.4 to 0.6) SILT; some sand, fine to coarse; trace gravel, fine, angular; light brown/white/pink/black, stiff, massive, wet to dry. NO RECOVERY (0.6 to 2.25) NO RECOVERY, lost.	SPT-1				58			Nb		3/7/3/4	10						
	1.0			SPT-2				0					22/24/20/19	44						
	382			SPT-3				0					10/16/19/21	35						
	381		SAND/SILT (2.25 to 4.13) Silty; SAND, fine to coarse; trace gravel, fine, subangular to subrounded; trace clay; well graded, grey/black/red/white, very dense to dense, massive, wet.	SPT-4				50					10/18/37/31	55						
	380			SPT-5				58					4/12/19/19	31						
	4.0			SPT-6				68					12/R/-/-	R						
	379		(4.13 to 9.16) Rock Type: GRANITE Colour: Pink, white, black, grey Fabric and Textures: Medium to coarse grained, massive Weathering: Slightly weathered Discont. Type: Joints Discont. Orientation: Jointing at 30°, 70°, 80° and 90°. Healed joints at 30°, 70°, 80° and 90°. Other: Infill is hard and rusty red or green.	1				100				12	1	88	70				4.22	
	5.0			2				100				12	5	89	70				5.26	
	378																		5.73	

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nx - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- NH - ICE WITH SOIL INCLUSIONS
- NI - ICE WITHOUT SOIL INCLUSIONS
- ?? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.37

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-30

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 18 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 9.16 m

Date Completed: 25 Mar 12

Coordinates: 5,272,106 N, 430,387 E

Elevation: 384 m

Logged by: SWK/RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS		
7.0	377					100			12	5	97	73					
8.0	376					100			12	5	91	73					
9.0	375					100			12	5	91	73					
9.16	374		End of Drillhole: 9.16 m The drillhole is located on a small hill with some boulders and many pine trees present. HQ coring advanced to 9.16 m depth. Successful packer test completed from 4.75 to 9.16 m. One monitoring well installed at this location. Water level measured using water level meter on March 25, 2012.													8.78	
10.0	373																
11.0	372																

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
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- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.37

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-31

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 15 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 9.00 m

Date Completed: 16 Mar 12

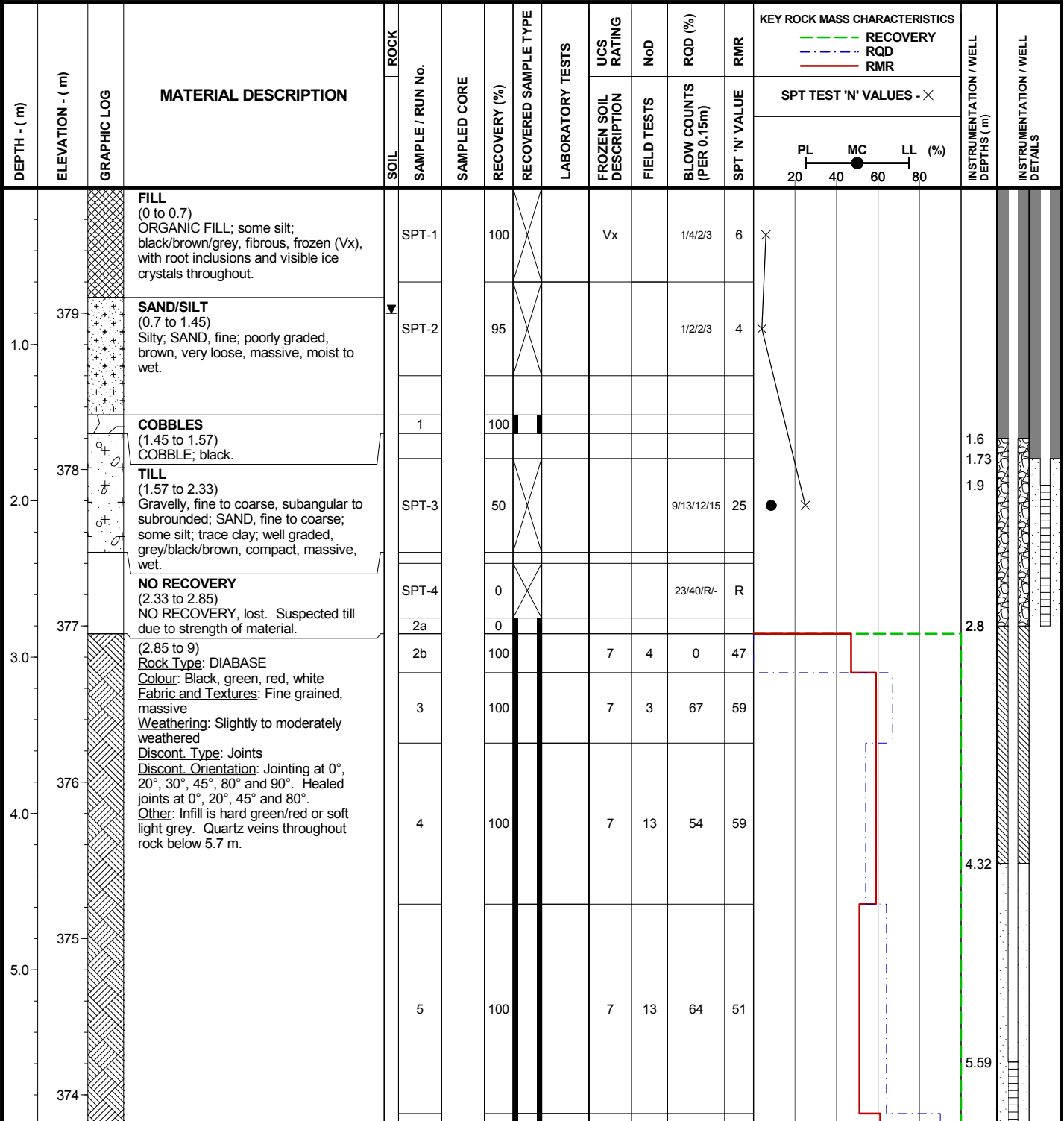
Coordinates: 5,270,971 N, 429,721 E

Elevation: 380 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.38

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-31

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 15 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 9.00 m

Date Completed: 16 Mar 12


Coordinates: 5,270,971 N, 429,721 E

Elevation: 380 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

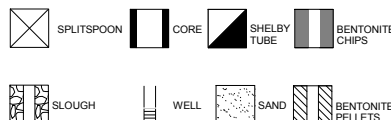
DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
7.0	373					6	100			7	6	90	61						
						7	100			7	1	100	68						
8.0	372					8	100			7	10	81	59						
9.0	371		End of Drillhole: 9 m																
			The drillhole is located within a small valley, sloping towards lower ground. The site is surrounded by light brush and alder trees.																
			HQ coring advanced to 9.0 m depth.																
			Successful packer test completed from 3.45 to 9.0 m.																
			Two monitoring wells (one in overburden, one in bedrock) installed at this location.																
			Water level measured using water level meter on March 16, 2012.																
10.0	370																		
11.0	369																		
	368																		

I:\110049701\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:



TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.38

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-32

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 18 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 6.17 m

Date Completed: 18 Mar 12

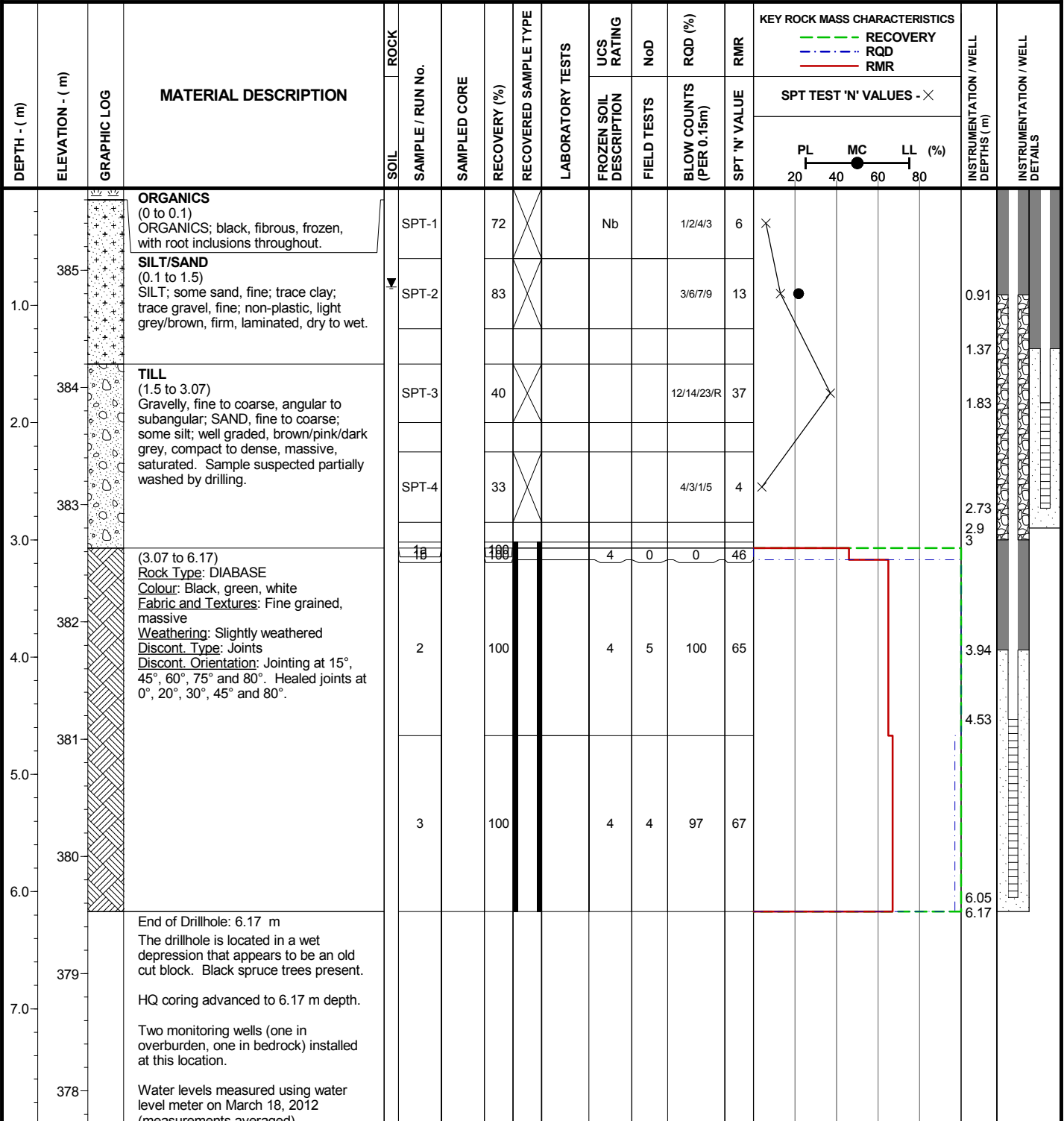
Coordinates: 5,270,529 N, 431,148 E

Elevation: 386 m

Logged by: SWK

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- IS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.39

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP_LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-TMF-33

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 16 Mar 12

Location: Tailings Management Facility # 1

Total Depth: 4.60 m

Date Completed: 17 Mar 12

Coordinates: 5,271,213 N, 432,261 E

Elevation: 396 m

Logged by: BC

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.								SPT TEST 'N' VALUES - X	RECOVERY	RQD			RMR
													PL MC LL (%) 20 40 60 80					
396			ORGANICS (0 to 0.1) PEAT; trace sand, fine; brown/black, spongy, fibrous, with rootlets and wood inclusions throughout. SILT (0.1 to 0.75) SILT; trace sand, fine; medium plasticity, light brown/yellow, soft, massive, saturated.			SPT-1	60				4/4/0/1	4	X					
1.0						SPT-2	38				2/4/9/24	13	X					
395			TILL (0.75 to 1.61) Gravely, fine, angular to subangular; SAND, fine to coarse; some silt; well graded, light grey/brown/yellow, compact, massive, saturated.			SPT-3	100				R/-/-/-	R						
2.0			(1.61 to 4.6) Rock Type: GRANITE Colour: Pink, grey Fabric and Textures: Medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Horizontal to sub-horizontal discontinuities. Other: Infill is yellowish grey sand.			1	97		12	6	75	65						
394						2	100		12	4	93	72						
393																		
392																		
391			End of Drillhole: 4.6 m Drillhole is located on gently sloping ground in a moderately treed area. HQ coring advanced to 4.6 m depth. One monitoring well installed at this location. Water level measured using water level meter on March 17, 2012.															

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.40

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-01

Page: 1 of 1

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 11 Mar 12

Location: Waste Dump Area # 5

Total Depth: 4.15 m

Date Completed: 11 Mar 12

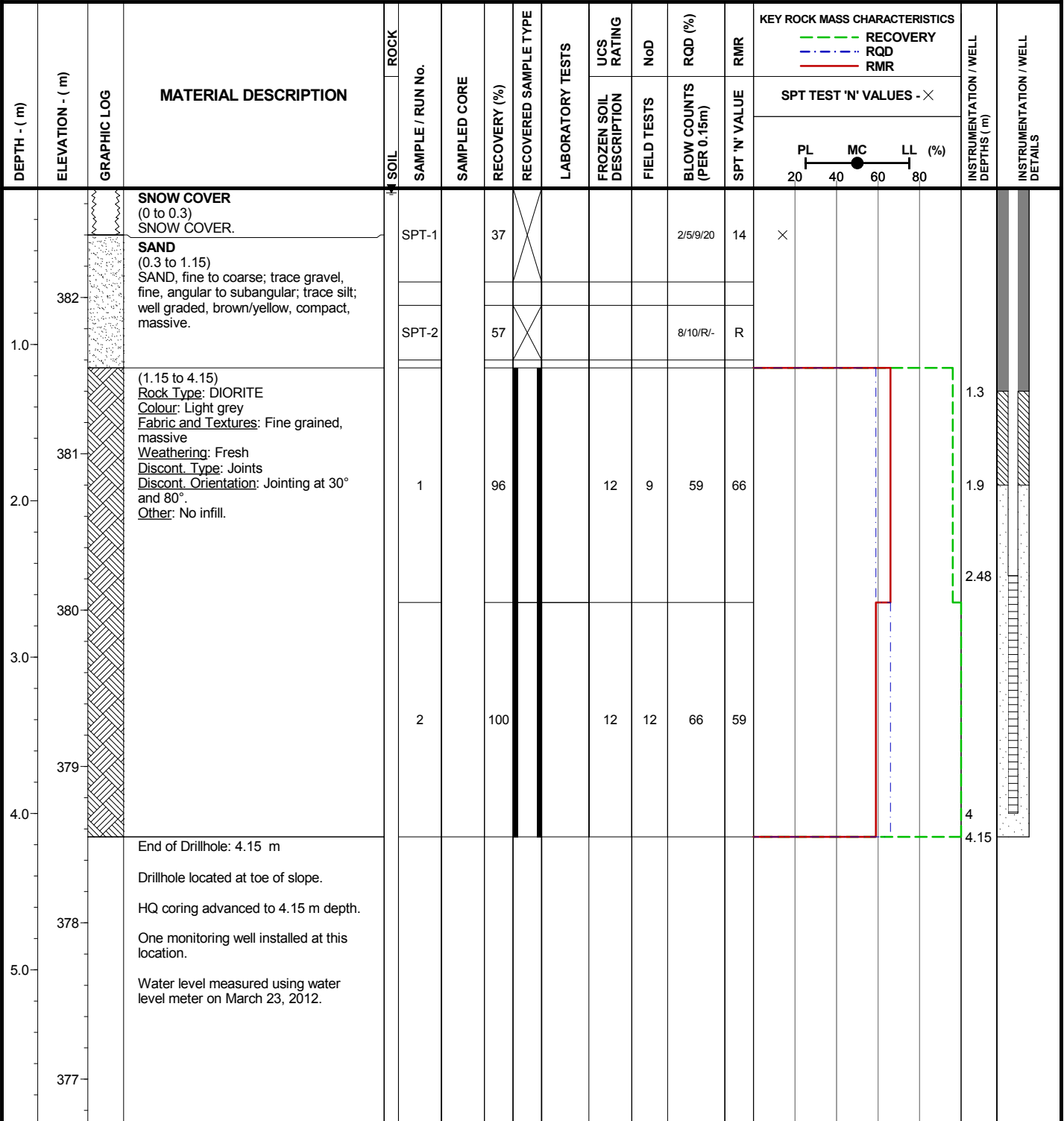
Coordinates: 5,268,014 N, 430,281 E

Elevation: 383 m

Logged by: BC

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.41

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP_LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-03

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 19 Mar 12

Location: Waste Dump Area # 4

Total Depth: 8.08 m

Date Completed: 20 Mar 12

Coordinates: 5,266,357 N, 427,144 E

Elevation: 397 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
397			ORGANICS (0 to 1.5) PEAT; brown, spongy, fibrous, inclusions of wood chips, moist.			SPT-1		15					0/0/1/0	1	X					
396						SPT-2		27					0/0/0/0	0	X					
395			SAND/SILT (1.5 to 4.5) Silty; SAND, fine to coarse; trace gravel, fine, subangular to subrounded; trace clay; well graded, grey, loose to compact, massive, saturated.			SPT-3		65					5/6/4/4	10	X ●					
394						SPT-4		65					6/7/9/22	16	X					
393						SPT-5		53					2/3/3/2	6	X ●					
392			TILL (4.5 to 5.11) Silty; SAND, fine to coarse; some gravel, fine to coarse, subangular to subrounded; trace clay; well graded, grey, dense, massive, saturated.			SPT-6		65					8/9/5/6	14	X					
						SPT-7		75					11/14/24/R	38	X ●					
			(5.11 to 8.08) Rock Type: DIABASE Colour: Black, grey Fabric and Textures: Fine to medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 0°, 45° and 85°. Healed joints at 0°, 45°, 85°.			1		100			15	4	0	53						
						2		100			15	10	56	66						

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No.	Ref. No.	Rev.
NB101-497/1	1	0

FIGURE A.42

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-03

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 19 Mar 12

Location: Waste Dump Area # 4

Total Depth: 8.08 m

Date Completed: 20 Mar 12

Coordinates: 5,266,357 N, 427,144 E

Elevation: 397 m

Logged by: SCR

Inclination: -90

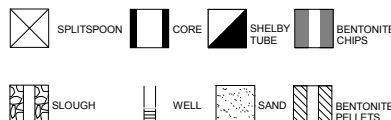
Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	PL		
391			Other: Infill is soft and rusty in colour.															
7.0	390					3	96			15	13	42	59					
8.0	389		End of Drillhole: 8.08 m The drillhole is located in a peat bog, surrounded by mature trees. NQ coring advanced to 8.08 m depth.			4	100			15	9	72	64					
8.89	389																	
9.0	388																	
10.0	387																	
11.0	386																	

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
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- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:



TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.42

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-WD-05R

Page: 1 of 1

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 24 Aug 12

Location: Waste Rock Dump #2

Total Depth: 5.99 m

Date Completed: 25 Aug 12

Coordinates: 5,264,850 N, 427,936 E

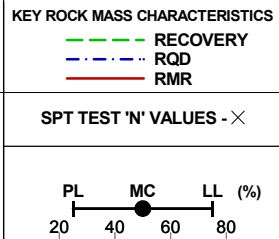
Elevation: 394 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
1.0	393		SAND (0 to 1.6) SAND, fine to coarse; some silt; some gravel, fine, angular; well graded, orangeish brown/light yellowish brown/light brown, loose to very dense, massive, moist to wet.	SPT-1			58					1/2/3/4	5					
				SPT-2			50					2/5/8/11	13					
				SPT-3			43					10/12/R/-	R					
2.0	392		(1.6 to 5.99) Rock Type: DIORITE Colour: White, pinkish white Fabric and Textures: Fine to medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 0°, 45°, 60° and 90°. Healed joints at 0°, 45°, 60° and 90°. Other: Broken zone from 1.60 to 1.80 m depth and 2.99 to 3.72 m depth. Soft black platy intrusion with yellow mineralization from 4.84 to 4.93 m depth. Infill is hard, red/white/black/yellow.	1			100			4	9	72	57					
3.0	391			2			100			4	10	82	61					
4.0	390			3			100			15	6	93	77					
5.0	389																	
6.0	388																	
7.0	387																	
8.0	386																	
9.0	385																	
	384																	



I:\11010049701\1\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILLHOLE LOGS 2013-01-02.GPJ
I:\11010049701\1\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, DRILLHOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS		BENTONITE GROUT
	SLOUGH		WELL		SAND		BENTONITE PELLETS		

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.15

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-12

Page: 1 of 2

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 1 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 11.38 m

Date Completed: 4 Mar 12

Coordinates: 5,264,679 N, 429,418 E

Elevation: 386 m

Logged by: NWL

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK	SOIL	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	ROD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
	386		ORGANICS (0 to 0.6) ORGANICS; dark brown/black, frozen, with root inclusions.			SPT-1		45					5/2/0/0	2	X					
	385		NO RECOVERY (0.6 to 1.5) NO RECOVERY, rock lodged in the tip.			SPT-2		0					2/1/1/1	2	X					
	384		SILT (1.5 to 4.5) SILT; trace sand, fine; trace clay; well graded, light grey, firm, massive, saturated.			SPT-3		47					0/7/8/10	15	X					
						SPT-4		60					3/4/4/4	8	X					
						SPT-5		75					2/3/4/5	7	X					
						SPT-6		100					2/2/4/6	6	X	●				
						SPT-7		80					2/3/3/4	6	X				4.72	
						SPT-8		22					4/17/22/15	39	X				5.72	
						SPT-9		55					3/8/4/3	12	X				6.3	

FROZEN SOIL DESCRIPTIONS:

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- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.43

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-12

Page: 2 of 2

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 1 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 11.38 m

Date Completed: 4 Mar 12

Coordinates: 5,264,679 N, 429,418 E

Elevation: 386 m

Logged by: NWL

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									PL	MC	LL (%)		
379			SILT/SAND (4.5 to 7.75) SILT; AND SAND, fine to coarse; trace gravel, fine, subangular to subrounded; well graded, light grey, very stiff, saturated.	SPT-10			48	X				41/45/-	G					
378			NO RECOVERY (7.75 to 8.43) NO RECOVERY, lost.	SPT-11			80	X				61/R/-	R			7.82		
377			(8.43 to 11.38) Rock Type: DIABASE Colour: Dark grey Fabric and Textures: Fine grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 0°, 20°, 45°, 70° and 80°.	SPT-12		1	89			12	5	44	58			8.38		
376					2	100				12	13	74	63			9.15		
375					3	100				12	5	38	58			9.73		
375					4	100				12	4	35	58			11.25		
374			End of Drillhole: 11.38 m The drillhole location is flat and located approximately 75 m from Chester Lake. HQ coring advanced to 11.38 m depth. Two monitoring wells (one in overburden, one in bedrock) installed at this location. Drilling mud was used in the overburden while drilling both drillholes. Water level was not measured. Water was frozen.													11.38		

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.43

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP_LIB\GLB_DRILLHOLE_LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-13

Page: 1 of 2

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 4 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 9.40 m

Date Completed: 6 Mar 12

Coordinates: 5,264,486 N, 429,677 E

Elevation: 387 m

Logged by: NWL

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
			SNOW COVER AND ORGANICS (0 to 0.3) SNOW; AND ORGANICS; white/dark brown, frozen, stratified, with grass inclusions.				22			I + S		1/3/0.5/0.5	4					
	386		ORGANICS (0.3 to 1.5) ORGANICS; trace silt; trace sand, fine; dark brown, fibrous, frozen.				7			I + S		1/1/0.5/0.5	2					
	385		NO RECOVERY (1.5 to 2.25) NO RECOVERY, lost.				0					0/0/0/0	0					
	384		ORGANICS (2.25 to 2.65) ORGANICS, trace sand, fine to medium; black, firm, fibrous, wet.				42					0/0/0/0	0					
	383		SILT/SAND (2.65 to 3.75) Sandy, fine to medium; SILT; trace clay; grey, very soft, massive, saturated.				83					2/2/2/2	4					
	382		SAND (3.75 to 6) SAND, fine to medium; trace silt; well graded, white/pink/light grey, very loose to dense, massive, saturated.				83					0/0/0/2	0					
							0					19/12/10/12	22					

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
 I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.44

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-13

Page: 2 of 2

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 4 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 9.40 m

Date Completed: 6 Mar 12

Coordinates: 5,264,486 N, 429,677 E

Elevation: 387 m

Logged by: NWL

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								PL	MC	LL (%)		
	381		SAND (3.75 to 6) SAND, fine to medium; trace silt; well graded, white/pink/light grey, very loose to dense, massive, saturated.			20					8/22/17/16	39					
	6.0		BOULDERS (6 to 6.4) BOULDERS, subangular; white/grey. Suspected washed by drilling.			70											
	380		NO RECOVERY (6.4 to 7.22) NO RECOVERY, lost.														
	7.0																
	379		(7.22 to 9.4) Rock Type: DIABASE Colour: Dark grey Fabric and Textures: Fine grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45° and 60°. Other: Silt infill			100			7	5	85	58					
	8.0																
	378					100			7	10	59	54					
	9.0																
	377		End of Drillhole: 9.4 m The drillhole location is in a flat muskeg area. HQ coring advanced to 9.4 m depth.														

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.44

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-14

Page: 1 of 2

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 8 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 11.66 m

Date Completed: 9 Mar 12

Coordinates: 5,265,342 N, 429,875 E

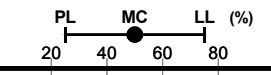
Elevation: 387 m

Logged by: NWL

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
			SNOW COVER AND ORGANICS (0 to 0.6) SNOW AND ORGANICS; some sand, fine; poorly graded, white/light brown, fibrous, massive, frozen.				42			I + S		3/5/3/4	8					
			NO RECOVERY (0.6 to 1.5) NO RECOVERY, lost.				0					R/-/-	R					
			SAND/SILT (1.5 to 2.85) Silty; SAND, fine to coarse; some gravel, fine, subangular to subrounded; poorly graded, light brown/grey, compact to dense, massive, wet.				62					20/12/7/15	19					
			NO RECOVERY (2.85 to 3.6) NO RECOVERY, lost.				63					44/22/21/23	43					
			TILL (3.6 to 7.4) GRAVEL, fine to coarse, subangular; some cobbles, subangular; dark grey/white/red/pink, massive. Suspected washed by drilling.			1	23											
						2	23											



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I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- H-S - ICE WITH SOIL INCLUSIONS
- ICE - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.45

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-14

Page: 2 of 2

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 8 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 11.66 m

Date Completed: 9 Mar 12

Coordinates: 5,265,342 N, 429,875 E

Elevation: 387 m

Logged by: NWL

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	PL	MC			LL (%)
379	8.0		(7.4 to 11.66) Rock Type: DIABASE Colour: Grey, white, pink Fabric and Textures: Fine grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 20°, 30°, 45° and 85°. Healed joints at 20°, 30° and 45°. Other: Infill is soft silt.			3	100			7	10	79	58	20	40	60	80	8.5	
378	9.0					4	94			7	6	69	58					9.52	
377	10.0					5	96			7	10	63	54					9.92	
376	11.0																	11.44	
375	12.0		End of Drillhole: 11.66 m The drillhole location is close to the creek and close to the road. HQ coring advanced to 11.66 m depth. One monitoring well installed at this location. Water level measured using water level meter on March 23, 2012.															11.66	
374	13.0																		
373																			

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Ni - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.45

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-15

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 6 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 15.01 m

Date Completed: 8 Mar 12

Coordinates: 5,265,843 N, 430,199 E

Elevation: 381 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS FROZEN SOIL RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	SPT TEST 'N' VALUES - X	PL		
381			SNOW COVER AND ORGANICS (0 to 2.25) SNOW (ice); AND PEAT, white/brown, fibrous, frozen.		SPT-1	82	X		I + S		1/11/17/3	28					
380					SPT-2	30	X		I + S		1/0.5/0.5/0	1					
379					SPT-3	73	X		I + S		0/0/0/1	0					
378			SILT (2.25 to 4.5) SILT; some sand, fine to medium; some clay; low plasticity, grey, soft, wet.		SPT-4	50	X				2/5/7/6	12					
377					SPT-5	50	X				3/5/5/6	10					
376			SAND (4.5 to 5.05) SAND, fine to coarse; trace silt; trace gravel, fine; well graded, black/white/grey/red, compact, massive, wet.		SPT-6	68	X				0/5/5/5	10					
375			TILL (5.05 to 11.7) BOULDERS trace cobbles; MUCH SAND, fine to coarse; MUCH GRAVEL, fine to coarse, subangular; trace silt; well graded, grey/black/pink/white, loose to very dense, massive, wet.		SPT-7	100	X				0/0/0/R	R					
374					1	100											
					SPT-8	38	X				7/34/23/11	57					
					SPT-9	10	X				37/20/8/8	28					
					SPT-10	22	X				7/5/0/0	5					

FROZEN SOIL DESCRIPTIONS:

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- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.46

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-15

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 6 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 15.01 m

Date Completed: 8 Mar 12

Coordinates: 5,265,843 N, 430,199 E

Elevation: 381 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS				
				SOIL	SAMPLE / RUN No.									PL	MC	LL (%)						
373			TILL (5.05 to 11.7) BOULDERS trace cobbles; MUCH SAND, fine to coarse; MUCH GRAVEL, fine to coarse, subangular; trace silt; well graded, grey/black/pink/white, loose to very dense, massive, wet.																			
				SPT-11	31																	
				2	100																	
9.0	372			3	21																	
				SPT-12	32								9/8/39/R		47							
				4	97																	
				5	100																	
11.0	371			SPT-13	42								7/8/23/R		R							
				SPT-14	0								R/-/-		R							
				6A	100																	
				6B	100						4	0	100		66							
12.0	369				(11.7 to 15.01) Rock Type: GRANITE Colour: Pink, grey, black Fabric and Textures: Fine to medium grained, massive Weathering: Fresh Discont. Type: Jointing at 20°, 45° and 80°. Other: Infill is hard and black or soft and green.																	
						7	87						4	6	53		51					
						8	100						4	9	63		55					
15.0	366			End of Drillhole: 15.01 m The drillhole is located on the bank of a creek, in a low lying area, surrounded by hills. NQ coring advanced to 15.01 m depth.																		

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I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLIT SPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.46

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-16

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 2 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 11.72 m

Date Completed: 6 Mar 12

Coordinates: 5,266,269 N, 430,542 E

Elevation: 383 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK SAMPLE / RUN No.	SOIL SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
													RECOVERY	RQD	RMR			
													SPT TEST 'N' VALUES - X					
													PL	MC	LL (%)			
													20	40	60	80		
	382		SNOW COVER AND ORGANICS (0 to 0.75) SNOW; AND ORGANICS, white/black, fibrous, frozen.	SPT-1		28			I + S		0.5/0.5/0.5/0.5	1	X					
1.0	381		ORGANICS (0.75 to 2) ORGANICS, black, firm, fibrous.	SPT-2		0					0/0/0/0	0	X					
2.0	380		SAND/SILT (2 to 6) SAND, fine; AND SILT; trace clay; poorly graded, light grey, firm, laminated, saturated.	SPT-3		67					0/0/3/5	3	X					
	380			SPT-4		55					1/4/5/6	9	X	●				
	379			SPT-5		67					1/2/2/5	4	X					
	378			SPT-6		50					3/5/2/1	7	X	●				
	377			SPT-7		55					0/2/3/2	5	X					
	377			SPT-8		67					1/2/4/3	6	X					
6.0	376		TILL (6 to 7.95) Gravelly; fine to coarse, subangular to subrounded; SAND, fine to coarse; some silt; trace clay; well graded, light grey, compact to very dense, saturated.	SPT-9		58					4/6/7/8	13	X					

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.47

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-16

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 2 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 11.72 m

Date Completed: 6 Mar 12

Coordinates: 5,266,269 N, 430,542 E

Elevation: 383 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS		
			TILL (6 to 7.95) Gravelly; fine to coarse, subangular to subrounded; SAND, fine to coarse; some silt; trace clay; well graded, light grey, compact to very dense, saturated.		SPT-10	67					8/7/4/4	11					
					SPT-11	83					32/68/80/67	R					
			(7.95 to 11.72) Rock Type: GRANITE Colour: Red, black, pink, brown Fabric and Textures: Fine to medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 0°, 15°, 45°, 80° and 90°. Healed joints at 20°, 30°, 45°, 80° and 90°. Other: Infill is hard and dark black/rusty.		1	54			7	11	11	45					
					2	75			7	1	0	47					
					3	26			7	3	0	47					
					4	69			4	3	20	45					
					5	27			4	0	0	47					
					6	98			4	7	86	59					
			End of Drillhole: 11.72 m The drillhole is located in heavy brush and trees. NQ coring advanced to 11.72 m depth. Water level measured using water level meter on March 4, 2012.														

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FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS
	SLOUGH		WELL		SAND		BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.47

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-17

Page: 1 of 3

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 25 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 25.43 m

Date Completed: 30 Mar 12

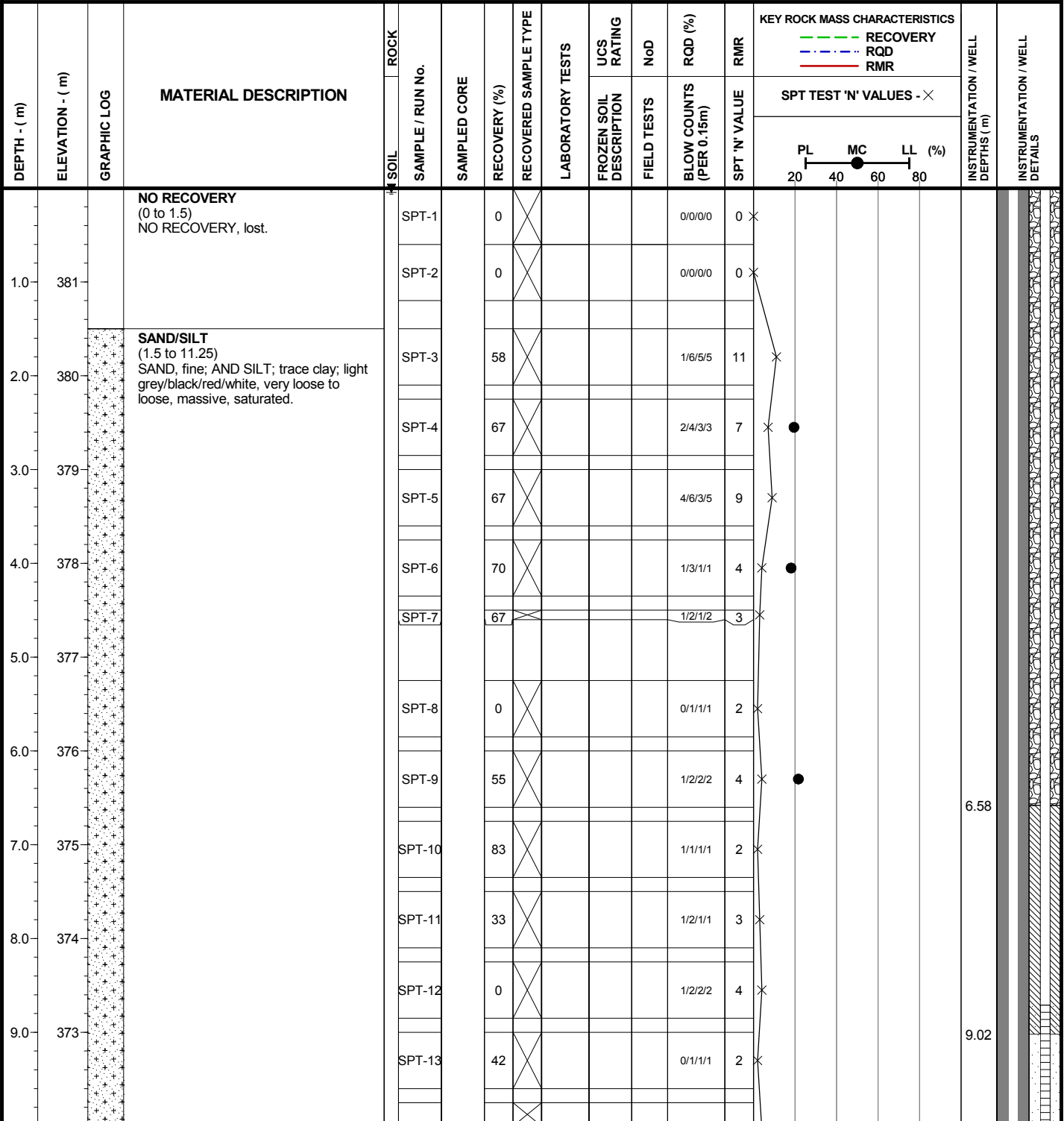
Coordinates: 5,266,132 N, 431,216 E

Elevation: 382 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.48

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I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-17

Page: 2 of 3

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 25 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 25.43 m

Date Completed: 30 Mar 12

Coordinates: 5,266,132 N, 431,216 E

Elevation: 382 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL SAMPLE / RUN No.	ROCK SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
													PL	MC	LL (%)		
11.0	371		SAND/SILT (1.5 to 11.25) SAND, fine; AND SILT; trace clay; light grey/black/red/white, very loose to loose, massive, saturated.	SPT-14		60	X				1/2/2/2	4				10.23	
				SPT-15		22	X				1/2/3/4	5				10.98	
12.0	370		TILL (11.25 to 15.9) Sandy, fine to coarse; GRAVEL, fine to coarse, subangular; some silt; well graded, light grey/black/red/white, compact to dense, massive, saturated.	SPT-16		33	X				18/15/17/10	32				11.82	
				SPT-17		25	X				4/12/9/10	21					
13.0	369																
				SPT-18		25	X				3/5/6/5	11					
14.0	368																
				SPT-19		0	X				19/18/7/2	25					
15.0	367																
				SPT-20		25	X				10/6/6/10	12					
16.0	366		TILL (15.9 to 18.43) COBBLES; MUCH GRAVEL, fine to coarse, subangular to subrounded; some sand, fine to coarse; some silt; grey/black/white/green, massive, wet. Suspected partially washed by drilling.	1		100											
				2		100											
				3		100											
17.0	365			4		57											
				5		62											
18.0	364			6		0											
19.0	363		NO RECOVERY (18.43 to 22.38) NO RECOVERY. Suspected till.			0											

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I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.48

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-17

Page: 3 of 3

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 25 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 25.43 m

Date Completed: 30 Mar 12

Coordinates: 5,266,132 N , 431,216 E

Elevation: 382 m

Logged by: RSM

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	ROD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
21.0	361		NO RECOVERY (18.43 to 22.38) NO RECOVERY. Suspected till.		7		0											
22.0	360				8		0											
23.0	359		TILL (22.38 to 22.6) GRAVEL, fine to coarse, angular; well graded, red/black/white, massive, saturated. Suspected washed by drilling.	SPT-21			75					38/RI--	R					
24.0	358		(22.6 to 25.43) Rock Type: GRANITE Colour: Pink, black, white Fabric and Textures: Coarse grained, massive Weathering: Slightly weathered Discont. Type: Joints Discont. Orientation: Jointing at 0°, 10°, 20°, 45° and 80°. Healed joints at 0°, 10°, 25°, 30°, 45° and 80°. Other: Infill is hard and red.		9		100		4	5	0	44						
25.0	357				10		100		4	25	32	49						
26.0	356				11		100		4	12	73	57						
27.0	355				12		100		4	2	65	57						
28.0	354		End of Drillhole: 25.43 m															
29.0	353		The drillhole location is flat with standing water at surface and is surrounded with black spruce. HQ coring advanced to 25.43 m depth. Two monitoring wells (one in overburden, one in bedrock) installed at this location. While pulling the casing after installing the well in overburden, flowing sands binded the well to the casing and lifted the well. As a result, a portion of the screened interval is within the upper bentonite seal. Water level measured using water level meter on March 26, 2012.															

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FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nv - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Nh - ICE WITH SOIL INCLUSIONS
- Ni - ICE WITHOUT SOIL INCLUSIONS
- N? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.48

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-18

Page: 1 of 2

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 12 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 16.90 m

Date Completed: 13 Mar 12

Coordinates: 5,265,968 N, 431,278 E

Elevation: 382 m

Logged by: BC

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
															RECOVERY	RQD	RMR			
															SPT TEST 'N' VALUES - X					
															PL	MC	LL (%)			
															20	40	60	80		
			SNOW COVER AND ORGANICS (0 to 0.3) SNOW; AND ORGANICS; white/black/brown, fibrous, frozen.			SPT-1		45					5/1/0/0	1	X					
			PEAT (0.3 to 0.9) PEAT; dark brown/black, spongy, fibrous, with root inclusions.			SPT-2		70					4/4/4/5	8	X					
			SILT/SAND (0.9 to 6) Sandy, fine to coarse; SILT; trace clay; light grey, soft to stiff, massive, wet.			SPT-3		63		I + S			3/5/4/2	9	X					
						SPT-4		53					2/4/5/6	9	X					
						SPT-5		70					6/5/4/4	9	X	●				
						SPT-6		53					5/5/4/2	9	X					
						SPT-7		50					3/3/7/8	10	X	●				
						SPT-8		15					11/15/22/38	37	X					
			BOULDER/COBBLES (6 to 6.4) BOULDER AND COBBLES, pinky grey.			1		100												
			NO RECOVERY (6.4 to 9.44) NO RECOVERY, lost.			SPT-9		0					6/8/10/10	18	X					

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nx - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- IS - ICE WITH SOIL INCLUSIONS
- ICE - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.49

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-18

Page: 2 of 2

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 12 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 16.90 m

Date Completed: 13 Mar 12

Coordinates: 5,265,968 N, 431,278 E

Elevation: 382 m

Logged by: BC

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
														PL	MC	LL (%)		
10.0	372		SAND (9.44 to 10.6) SAND, fine to medium, angular to subangular; trace silt; well graded, brown/grey, very dense, massive, wet.		SPT-10		68	X				14/23/R/-	R					
11.0	371		SAND/SILT (10.6 to 13.9) SAND, fine to coarse; AND SILT; trace clay; trace gravel, fine, subangular to subrounded; well graded, light grey, dense to very dense, massive, saturated.		SPT-11		82	X				12/19/36/58	55					
12.0	370				SPT-12		65	X				21/36/R/-	50					
13.0	369				SPT-13		37	X				R/-/-	R					
14.0	368		(13.9 to 16.9) Rock Type: GRANITE Colour: Light grey Fabric and Textures: Fine to medium grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45° and 80°.		SPT-14		40	X				R/-/-	R					
15.0	367			2			100			12	9	37	61					
16.0	366			3			100			12	10	70	66					
17.0	365		End of Drillhole: 16.9 m The drillhole location is flat with standing water at surface and is surrounded with black spruce. HQ coring advanced to 16.9 m depth.															

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Nx - INDIVIDUAL ICE INCLUSIONS
- Nc - ICE COATINGS ON PARTICLES
- Nr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Ns - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- HS - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.49

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP_LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT_KP_DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-19

Page: 1 of 1

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 7 Mar 12

Location: Waste Dump Area # 4

Total Depth: 4.30 m

Date Completed: 8 Mar 12

Coordinates: 5,266,291 N, 427,622 E

Elevation: 394 m

Logged by: NWL

Inclination: -90

Reviewed by: CLS/KEH

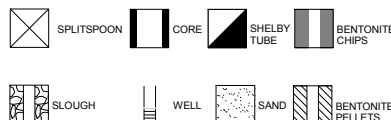
DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS		
	394		NO RECOVERY (0 to 0.6) NO RECOVERY, lost.		1	0											
	393	(0.6 to 4.3) Rock Type: DIABASE Colour: Grey, white, pink, red Fabric and Textures: Fine grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45°, 70°, 80° and 90°. Other: Infill is hard and black.			2	100			7	5	45	53					
	392				3	100			7	6	87	60					2.21
	391				4	100			7	1	100	63					2.63
	390				5	100			7	5	85	62					4.15
	389		End of Drillhole: 4.3 m The drillhole location is adjacent to Chester Road within a depression. HQ coring advanced to 4.3 m depth. One monitoring well installed at this location. On March 23, 2012 the water level was measured using a water level meter and was 0.67 m above ground.														4.3

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FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:



**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.50

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-21

Page: 1 of 1

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 6 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 5.79 m

Date Completed: 6 Mar 12

Coordinates: 5,264,966 N, 429,781 E

Elevation: 387 m

Logged by: NWL

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								SPT TEST 'N' VALUES - X	RECOVERY	RQD		
													PL	MC	LL (%)		
			NO RECOVERY (0 to 0.75) NO RECOVERY, lost.		SPT-1	0					1/1/0/0	1	X				
1.0			ORGANICS (0.75 to 1.5) PEAT; dark brown, fibrous, frozen, with root and grass inclusions.		SPT-2	45					1/0.5/0.5/1	1	X				
2.0			ORGANICS (1.5 to 1.85) PEAT; brown, firm, fibrous, saturated, with root inclusions.		SPT-3	53					1/5/10/6	15	●				
3.0			SILT/SAND (1.85 to 2.7) SILT; AND SAND, fine to coarse; trace clay; trace gravel, fine, subangular; well graded, brown/grey, firm to stiff, massive, saturated.		SPT-4	44					1/12/22/R	34	X				
3.0			(2.7 to 5.79) Rock Type: DIABASE Colour: Grey, white, pink Fabric and Textures: Find grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 20°, 45° and 80°. Other: White quartz veins throughout rock.	1		100			7	3	90	65					
4.0				2		99			7	5	86	64					
5.0				3		94			7	2	94	67					
6.0			End of Drillhole: 5.79 m The drillhole location is in a flat wet muskeg area. HQ coring advanced to 5.79 m depth.														

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.51

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-WD-22

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 23 Aug 12

Location: Waste Rock Dump #1

Total Depth: 12.31 m

Date Completed: 24 Aug 12

Coordinates: 5,265,580 N, 430,367 E

Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERY	RQD		
381			NO RECOVERY (0 to 0.75) NO RECOVERY		SPT-1	0						1/0/0/1	0					
1.0			ORGANICS (0.75 to 1.52) PEAT; AND ORGANIC SILT, dark brown to light brown, spongy to plastic, fibrous, saturated.		SPT-2	17						1/0/1/3	1					
2.0			SILT/SAND (1.52 to 5.18) SILT AND SAND, fine; trace clay; poorly graded, grey, loose, massive, saturated.		SPT-3	33						4/4/4/4	8					
3.0					SPT-4	66						1/2/3/5	5					
4.0					SPT-5	75						2/4/4/4	8					
5.0					SPT-6	58						0/3/5/4	8					
6.0					SPT-7	66						1/0/1/1	1					
7.0					SPT-8	55						18/6/4/R	10					
8.0					SPT-9	50						10/21/13/12	34					
9.0					SPT-10	70						23/22/20/R	42					
10.0						1	100											

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILL HOLE LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, DRILL HOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

SYMBOLS:

	SPLITSPOON		CORE		SHELBY TUBE		BENTONITE CHIPS		BENTONITE GROUT
	SLOUGH		WELL		SAND		BENTONITE PELLETS		

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.16

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH12-WD-22

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 55

Date Started: 23 Aug 12

Location: Waste Rock Dump #1

Total Depth: 12.31 m

Date Completed: 24 Aug 12

Coordinates: 5,265,580 N, 430,367 E

Elevation: 381 m

Logged by: RWT










Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	RECOVERY		
														PL	MC	LL (%)		
373			TILL (8.14 to 8.64) GRAVEL, fine to coarse, angular to subangular, poorly graded, pink/black/white, massive, saturated. Fines suspected washed by drilling.		2		100											
					3a		100											
9.0			(8.64 to 12.31) Rock Type: TONALITE Colour: Light green, white, greenish grey Fabric and Textures: Fine grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 45°, 60° and 90°. Healed joints at 45°, 60° and 90°. Other: Infill is hard, white and thin. Black mafic dyke from 9.65 to 9.95 m depth.		3b		100		7	10	41	52						
372																		
10.0					4		100		7	15	57	61						
371																		
11.0																		
370					5		100		7	13	71	65						
12.0																		
369																		
			End of Drillhole: 12.31 m															
13.0			The drillhole is located 30 m from stream and 40 m from the pine tree line. The location is covered with low grasses and alder trees.															
368			HQ coring advanced to 12.31 m depth.															
14.0			On August 23, 2012 the water level was 0.06 m below surface.															
367																		
15.0																		
366																		

I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER DRILL HOLE LOGS 2013-01-02.GPJ
I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, DRILLHOLE LOG_COTE_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

SYMBOLS:

-  SPLITSPOON
-  CORE
-  SHELBY TUBE
-  BENTONITE CHIPS
-  BENTONITE GROUT
-  SLOUGH
-  WELL
-  SAND
-  BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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FIGURE A2.16

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-23

Page: 1 of 2

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 7 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 10.23 m

Date Completed: 7 Mar 12

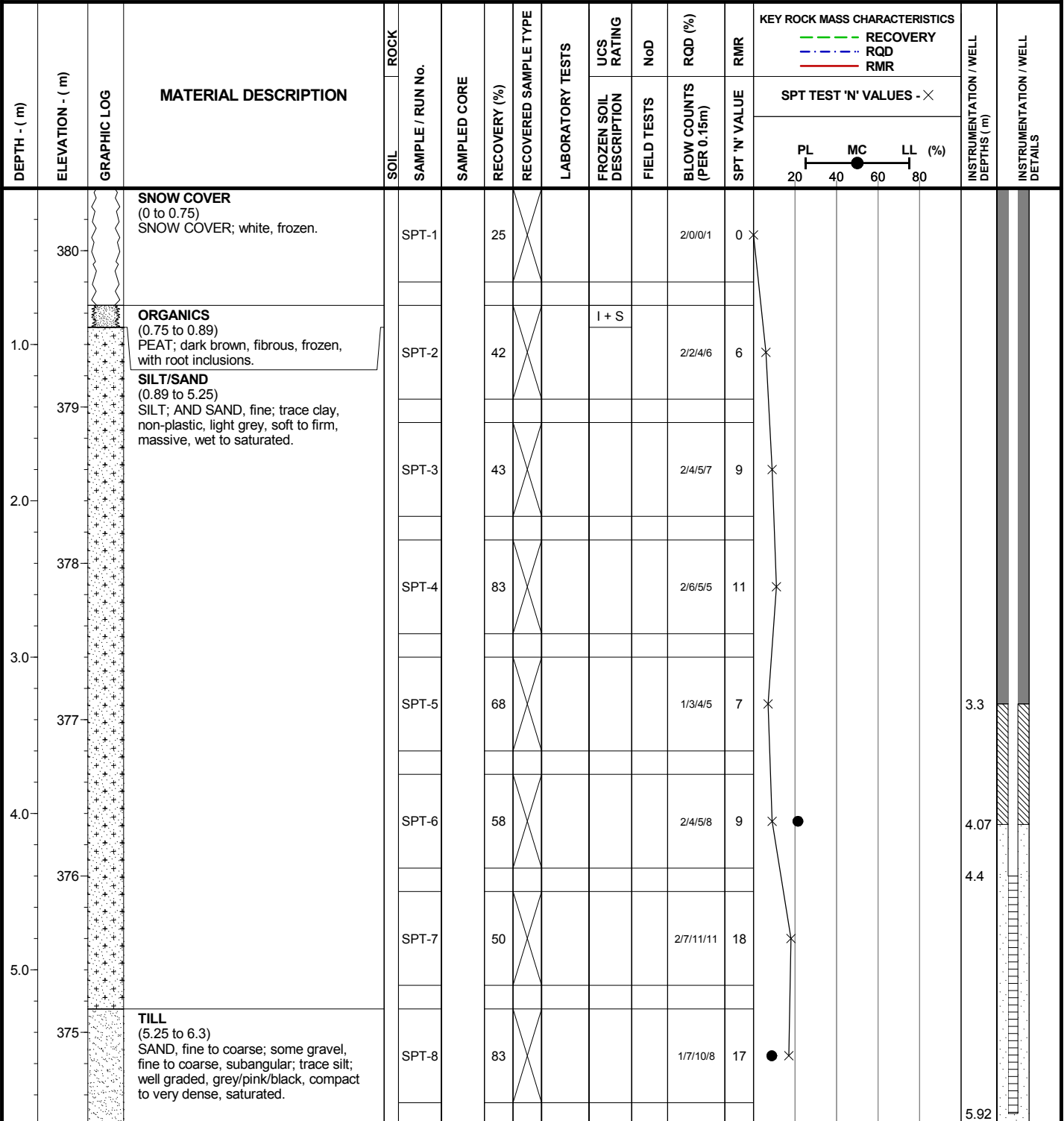
Coordinates: 5,264,004 N, 432,233 E

Elevation: 380 m

Logged by: NWL

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.52

I:\110049701\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-23

Page: 2 of 2

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 7 Mar 12

Location: Waste Dump Area # 1 & # 2

Total Depth: 10.23 m

Date Completed: 7 Mar 12

Coordinates: 5,264,004 N, 432,233 E

Elevation: 380 m

Logged by: NWL

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.								RECOVERY (%)	SPT TEST 'N' VALUES - X	PL			MC
374			(6.3 to 10.23) Rock Type: GRANITE Colour: Dark grey, white Fabric and Textures: Coarse grained, massive Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45° and 80°. Healed joints at 30°, 45° and 80°. Other: Infill is soft and green. Quartz veins throughout rock.			100					6/RI/-	R						
7.0				1		79			7	3	76	60						
373																		
8.0				2		100			7	4	100	63						
372																		
9.0																		
371				3		96			7	4	94	63						
10.0																		
370			End of Drillhole: 10.23 m The drillhole is located in a flat, wet, muskeg area. HQ coring advanced to 10.23 m depth. One monitoring well installed at this location. On March 23, 2012 the water level was measured using a water level meter and was 0.11 m above ground.															
11.0																		
369																		

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

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Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.52

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-25

Page: 1 of 1

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 11 Mar 12

Location: Waste Dump Area # 5

Total Depth: 6.00 m

Date Completed: 12 Mar 12

Coordinates: 5,268,344 N, 429,644 E

Elevation: 381 m

Logged by: BC

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL SAMPLE / RUN No.	ROCK SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
													RECOVERY	RQD	RMR			
													SPT TEST 'N' VALUES - X					
													PL	MC	LL (%)			
													20	40	60	80		
0.3	380		ORGANICS (0 to 0.6) PEAT; black/brown, fibrous, frozen.	SPT-1		55	X		I + S		1/2/1/0	3	X					
0.73	380		ORGANICS (0.6 to 1.35) ORGANICS; black, spongy, fibrous.	SPT-2		10	X				1/0/0/4	0	X					
2.0	379		COBBLE/BOULDER (1.35 to 2.1) COBBLES AND BOULDERS.	1		100												
2.25	379		NO RECOVERY (2.1 to 2.7) NO RECOVERY, lost.	SPT-3		0	X				12/7/R/-	R						
3.0	378		(2.7 to 6) Rock Type: DIORITE Colour: Light grey Fabric and Textures: Fine grained, massive. Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 70° Other: Pyrite and pyrrhotite mineralization throughout.	1		100			12	2	100	74						
4.18	377																	
5.7	376			2		100			12	1	100	79						
6.0	375		End of Drillhole: 6 m The drillhole location is flat and surrounded by white birch and spruce trees. HQ coring advanced to 6.0 m depth. Two monitoring wells (one in overburden, one in bedrock) installed at this location. On March 12, 2012 the water level in the overburden well was 0.9 m below surface. On March 11, 2012 the water level in the bedrock well was 0.28 m below surface.															

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.53

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\INT\LIBRARY\COTE LAKE PROJECT\KP_LIB\GLB_DRILLHOLE_LOG_COTE LAKE PROJECT_KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-26

Page: 1 of 1

Contractor: Downing Drilling

Drill Type: CME 850

Date Started: 14 Mar 12

Location: Waste Dump Area # 5

Total Depth: 5.30 m

Date Completed: 14 Mar 12

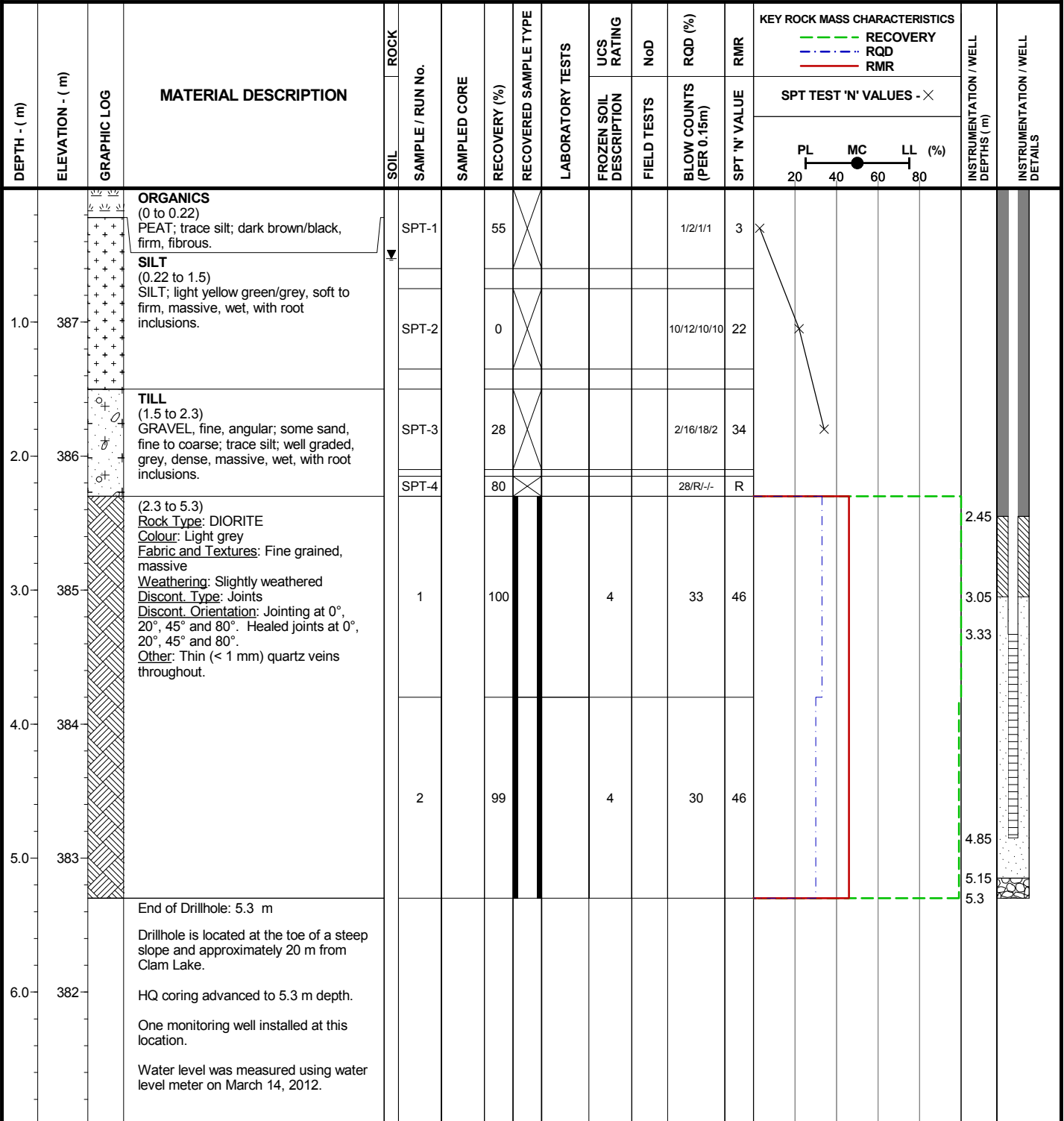
Coordinates: 5,267,740 N, 428,594 E

Elevation: 388 m

Logged by: BC

Inclination: -90

Reviewed by: CLS/KEH



I:\11010049\701\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vr - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1	Ref. No. 1	Rev. 0
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FIGURE A.54

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-27

Page: 1 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 20 Mar 12

Location: Waste Dump Area # 3

Total Depth: 10.57 m

Date Completed: 21 Mar 12

Coordinates: 5,265,510 N, 428,082 E

Elevation: 389 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY		
			ORGANICS (0 to 0.6) PEAT; brown, fibrous, frozen.				17			I + S		0/0/0/0	0					
1.0	388		ORGANICS (0.6 to 1.35) PEAT; brown, spongy, fibrous, wet.				5					0/0/0/0	0				0.6	
2.0	387		NO RECOVERY (1.35 to 3) NO RECOVERY, lost.				0					0/0/0/0	0					
3.0	386						0					0/0/0/0	0					
4.0	385		ORGANICS (3 to 5) PEAT; brown, spongy, fibrous, wet, with wood inclusions.				75					0/0/0/0	0					
5.0	384						40					0/0/0/0	0				4.5	
5.0	384		SILT (5 to 6) SILT; trace sand, fine; grey, firm, wet.				60					0/0/0/0	0				4.85	
6.0	383						20					0/7/4/3	11				5.41	
6.0	383		TILL (6 to 7.45) SAND, fine to coarse; AND GRAVEL, fine to coarse, subangular to subrounded; some silt; well graded, grey/red/black, loose to compact, massive, wet.				30					5/6/3/2	9				5.61	

FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT

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Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.55

I:\110100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ LAKE PROJECT

Drillhole No.: DH12-WD-27

Page: 2 of 2

Contractor: Marathon Drilling

Drill Type: CME 850

Date Started: 20 Mar 12

Location: Waste Dump Area # 3

Total Depth: 10.57 m

Date Completed: 21 Mar 12

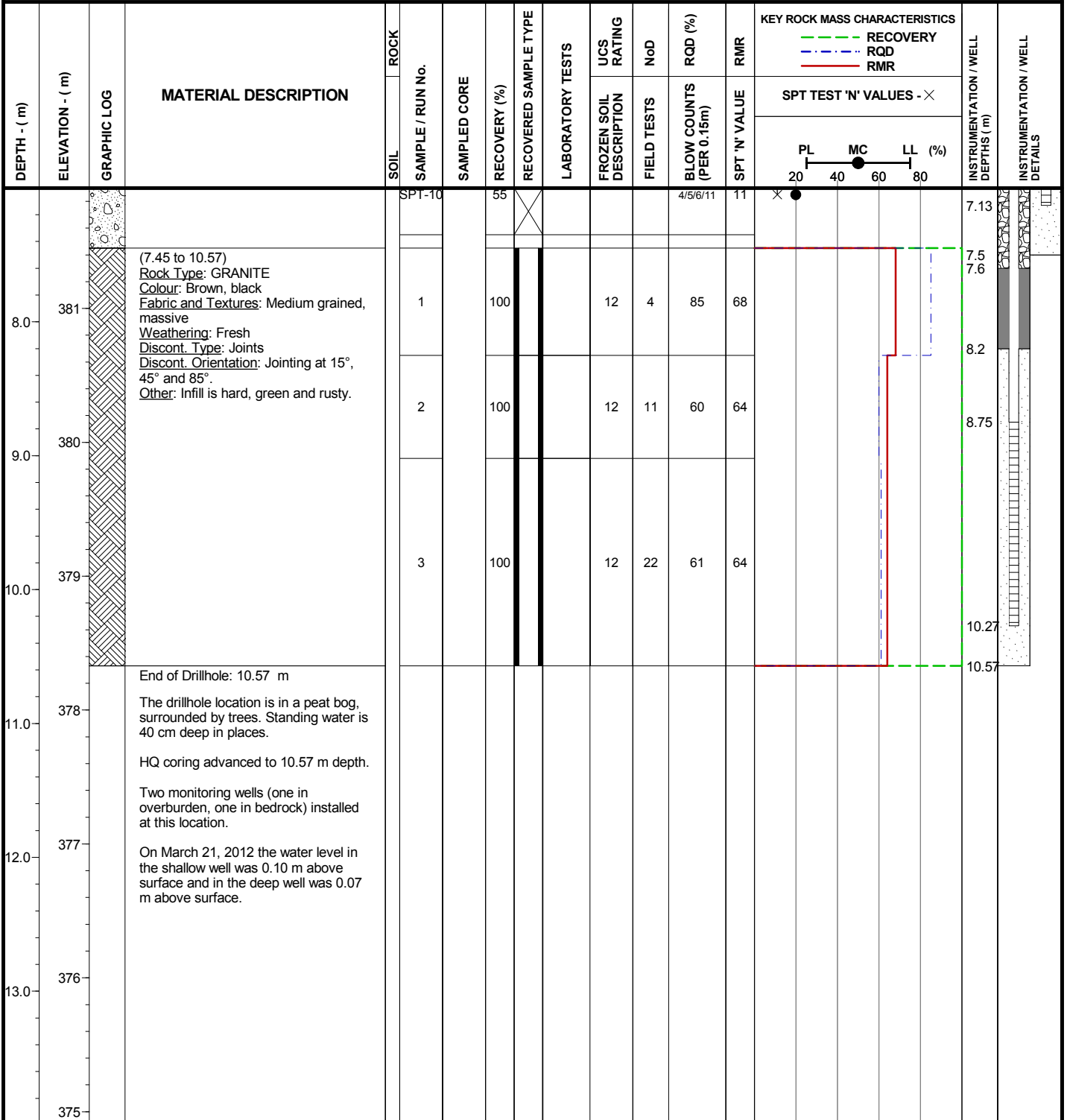
Coordinates: 5,265,510 N, 428,082 E

Elevation: 389 m

Logged by: SCR

Inclination: -90

Reviewed by: CLS/KEH



FROZEN SOIL DESCRIPTIONS:

- Nf - POORLY BONDED
- Nbn - WELL BONDED, NO EXCESS ICE
- Nbe - WELL BONDED, EXCESS ICE
- Vx - INDIVIDUAL ICE INCLUSIONS
- Vc - ICE COATINGS ON PARTICLES
- Vf - RANDOM OR IRREGULARLY ORIENTED ICE FORMATIONS
- Vs - STRATIFIED OR DISTINCTLY ORIENTED ICE FORMATIONS
- Hs - ICE WITH SOIL INCLUSIONS
- IC - ICE WITHOUT SOIL INCLUSIONS
- ? - LOW CONFIDENCE OR UNKNOWN FROZEN SOIL DESCRIPTION

SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**TRELAWNEY MINING AND EXPLORATION INC.
CÔTÉ LAKE PROJECT**



Project No. NB101-497/1 Ref. No. 1 Rev. 0

FIGURE A.55

I:\1100497\01\DATA\WORK FILES\WF01 - GINT\COTE LAKE WINTER GEOTECH.GPJ
I:\0\GINT\LIBRARY\COTE LAKE PROJECT\KP LIB\GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 21-Jun-12

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-01

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 8 Mar 13

Location: Freshwater Diversion

Total Depth: 13.60 m

Date Completed: 8 Mar 13

Coordinates: 5,266,152 N, 428,547 E

Elevation: 386 m

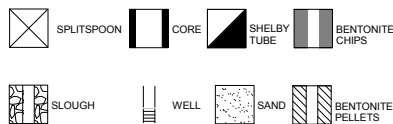
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY			
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
	386		ICE/SNOW/SLUSH (0 to 0.6) Ice thickness approximate.																
	385		WATER (0.6 to 4.9) Overburden begins 4.9 m below ice surface.																
	384																		
	383																		
	382																		
	381		ORGANIC SILT (4.9 to 10) ORGANIC SILT; dark brown, plastic, amorphous, saturated.		SPT-1		0					0/0/0/0	0	X					
	380				SPT-2		83					0/0/0/0	0	X					
	379				SPT-3		50					0/0/0/0	0	X					
					SPT-4		67					0/0/0/0	0	X					
					SPT-5		8					0/0/0/0	0	X					

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.23

I:\110100497\05\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-01

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 8 Mar 13

Location: Freshwater Diversion

Total Depth: 13.60 m

Date Completed: 8 Mar 13

Coordinates: 5,266,152 N, 428,547 E

Elevation: 386 m

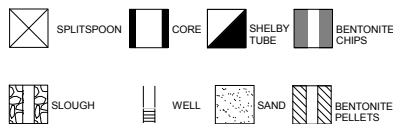
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS		
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	PL			MC	LL (%)
378			ORGANIC SILT (4.9 to 10) ORGANIC SILT; dark brown, plastic, amorphous, saturated.																	
					SPT-6	100	X						0/0/0/0	0	X					
9.0	377																			
					SPT-7	100	X													
10.0	376			SILT (10 to 10.7) SILT; trace clay, trace sand, fine; high plasticity, brownish grey, soft, massive, saturated.																
					SPT-8	100	X							0/0/0/0	0	X				
11.0	375			SILT (10.7 to 12.8) SILT; trace sand, fine; trace clay, medium plasticity, grey, stiff, stratified, saturated.																
					SPT-9	44	X							0/4/4/5	8	X				
12.0	374				SPT-10	33	X							3/5/6/8	11	X				
13.0	373		SAND/SILT (12.8 to 13.6) SAND, fine to coarse; AND SILT; trace gravel, fine angular; trace clay; grey, compact, massive, saturated.																	
				SPT-11	25	X							37/11/6/6	17	X					
				SPT-12	50	X							41/R/-/-	R						
			End of Drillhole: 13.6 m																	
14.0	372		The drillhole is located on Clam Lake. Refusal due to suspected bedrock at 13.60 m.																	
15.0	371																			

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.23

I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-02

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 9 Mar 13

Location: Freshwater Diversion

Total Depth: 10.15 m

Date Completed: 9 Mar 13

Coordinates: 5,266,363 N, 428,503 E

Elevation: 386 m

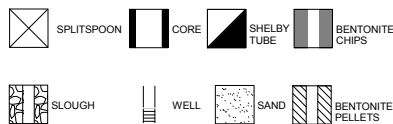
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY			
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
	386		SNOW/WATER/ICE (0 to 0.5) Ice thickness is approximate.																
	385		WATER (0.5 to 3.65) Overburden begins 3.65 m below the ice surface.																
	382		ORGANIC SILT (3.65 to 6.7) ORGANIC SILT; plastic, brown, fibrous to amorphous, saturated.	SPT-1		0						0/0/0/0	0	X					
	382			SPT-2		50						0/0/0/0	0	X					
	381			SPT-3		67						0/0/0/0	0	X					
	381			SPT-4		75						0/0/0/0	0	X					

SYMBOLS:



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FIGURE A1.24

I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-02

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 9 Mar 13

Location: Freshwater Diversion

Total Depth: 10.15 m

Date Completed: 9 Mar 13

Coordinates: 5,266,363 N, 428,503 E

Elevation: 386 m

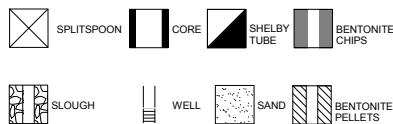
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLING	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.							RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
	380		ORGANIC SILT (3.65 to 6.7) ORGANIC SILT; plastic, brown, fibrous to amorphous, saturated.			SPT-5				0/0/0/0	0					
	379		SILT (6.7 to 8.2) SILT; some clay; trace sand, fine; high plasticity; grey, firm to stiff, massive, saturated.			SPT-6				0/0/0/0	0					
	378		SILT (8.2 to 8.8) SILT; some sand, fine; trace clay; non plastic, grey, stiff, massive, saturated.			SPT-7				3/4/4/5	8					
	377		SILT/GRAVEL (8.8 to 9.45) Gravelly, coarse, angular; SILT; trace clay; trace sand, fine; non plastic, grey, very stiff, massive, saturated.			SPT-8				1/5/6/4	11					
	376		SILT/SAND (9.45 to 10.15) Sandy, fine to coarse; SILT; trace gravel, fine, angular; trace clay; poorly graded, grey, compact, massive, saturated.			SPT-9				20/12/13/15	25					
	375		End of Drillhole: 10.15 m The drillhole is located on Clam Lake. Refusal at 10.15 m.			SPT-10				20/12/13/20	25					
						SPT-11				R/L-L	-					

SYMBOLS:



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FIGURE A1.24

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-05

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 13 Mar 13

Location: Freshwater Diversion

Total Depth: 16.46 m

Date Completed: 14 Mar 13

Coordinates: 5,267,565 N, 430,402 E

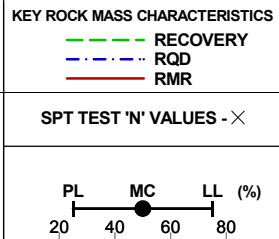
Elevation: 381 m

Logged by: RWT

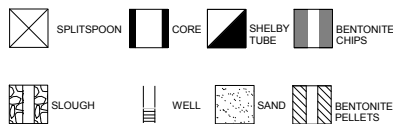
Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	RECOVERY (%)		
			SNOW/WATER/ICE (0 to 0.55) Ice thickness is approximate.															
			WATER (0.55 to 2.74) Overburden begins 2.74 m below the ice surface.															
			ORGANIC SILT (2.74 to 7.32) ORGANIC SILT; plastic, brown, fibrous, saturated.															
			SAND (7.32 to 14.63) SAND, fine to coarse; trace silt; poorly graded, grey/pink/white, very loose to very dense, massive, saturated.															
				SPT-1	0								0/0/0/0	0	×			
				SPT-2	50								0/0/0/0	0	×			
				SPT-3	17								0/0/0/0	0	×			
				SPT-4	83								0/0/0/0	0	×			
				SPT-5	67								0/0/0/0	0	×			
				SPT-6	100								0/0/0/0	0	×			
				SPT-7	50								3/1/1/1	2				
				SPT-8	0								24/39/42/37	81				
				SPT-9	42								3/4/6/3	10				
			SPT-10	50								31/39/28/25	67					



SYMBOLS:



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FIGURE A1.25

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-05

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 13 Mar 13

Location: Freshwater Diversion

Total Depth: 16.46 m

Date Completed: 14 Mar 13

Coordinates: 5,267,565 N, 430,402 E

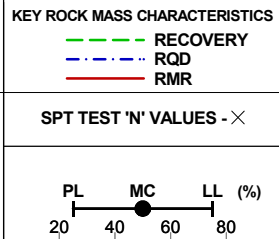
Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS		
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	RECOVERY (%)			RECOVERY (%)	RECOVERY (%)
370	11.0		SAND (7.32 to 14.63) SAND, fine to coarse; trace silt; poorly graded, grey/pink/white, very loose to very dense, massive, saturated.																	
				SPT-11	25	X							28/3/2/2	5						
				SPT-12	8	X							3/2/2/2	4						
				SPT-13	50	X							6/2/1/2	3						
				SPT-14	50	X							6/2/2/2	4						
				SPT-15	50	X							15/13/15/14	28						
366	15.0		SAND (14.63 to 16.46) Advance cone to 16.46 m. 14.8 to 15.1 m = 11 blows 15.1 to 15.4 m = 31 blows 15.4 to 15.7 m = 24 blows 15.7 to 16.0 m = 26 blows 16.0 to 16.3 m = 24 blows																	
				SPT-16	83	X							2/3/4/5	7						
364	17.0		End of Drillhole: 16.46 m The drillhole is located on Three Duck Lake. Refusal at 16.46 m.																	
363	18.0																			
362	19.0																			
361																				



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.25

I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-06

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 12 Mar 13

Location: Freshwater Diversion

Total Depth: 11.10 m

Date Completed: 12 Mar 13

Coordinates: 5,267,765 N, 430,206 E

Elevation: 381 m

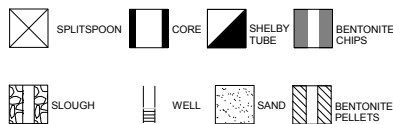
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY			
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
			SNOW/WATER/ICE (0 to 0.6) Ice thickness approximate.																
			WATER (0.6 to 2.6) Overburden begins 2.6 m below the ice surface.																
			ORGANIC SILT (2.6 to 6.1) ORGANIC SILT; brown, plastic, fibrous to amorphous, saturated. With root inclusions.	SPT-1	0							0/0/0/0	0	X					
				SPT-2	50								0/0/0/0	0	X				
				SPT-3	17								0/0/0/0	0	X				
				SPT-4	83								0/0/0/0	0	X				
				SPT-5	33								0/0/0/0	0	X				

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.26

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-06

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 12 Mar 13

Location: Freshwater Diversion

Total Depth: 11.10 m

Date Completed: 12 Mar 13

Coordinates: 5,267,765 N, 430,206 E

Elevation: 381 m

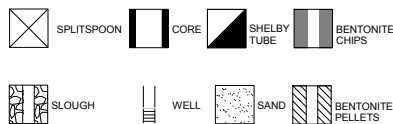
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
374	7.0		SILT (6.1 to 7.4) SILT; some sand, fine; trace clay; low plasticity, grey, soft to firm, stratified, saturated.			SPT-6	33					0/0/0	0	0	0	0		
373	8.0		SAND (7.4 to 8.1) SAND, fine to coarse; some silt; trace clay; trace gravel, fine, angular; poorly graded, grey, very loose, massive, saturated.			SPT-7	58					1/2/1/3	3	3	3	3		
372	8.0		SAND (8.1 to 9.15) SAND, fine; trace silt; trace clay; poorly graded, grey, compact, massive, saturated.			SPT-8	83					9/1/4/4	5	5	5	5		
371	9.0		SAND/SILT (9.15 to 10.7) SAND, fine; AND SILT; trace clay; poorly graded, grey, very loose to loose, massive, saturated.			SPT-9	83					10/14/13/4	27	27	27	27		
370	10.0		SAND/SILT (9.15 to 10.7) SAND, fine; AND SILT; trace clay; poorly graded, grey, very loose to loose, massive, saturated.			SPT-10	33					3/2/4/2	6	6	6	6		
370	10.0		SAND/SILT (9.15 to 10.7) SAND, fine; AND SILT; trace clay; poorly graded, grey, very loose to loose, massive, saturated.			SPT-11	42					3/1/2/3	3	3	3	3		
370	11.0		SILT/SAND (10.7 to 11.1) Sandy, fine; SILT; some gravel, fine, angular; non plastic, grey, soft to very hard, massive, saturated.			SPT-12	88					3/4/3/R	7	7	7	7		
369	11.1		End of Drillhole: 11.1 m The drillhole is located on Three Duck Lake. Refusal at 11.1 m															

SYMBOLS:



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FIGURE A1.26

I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-08

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 19 Mar 13

Location: Freshwater Diversion

Total Depth: 18.96 m

Date Completed: 19 Mar 13

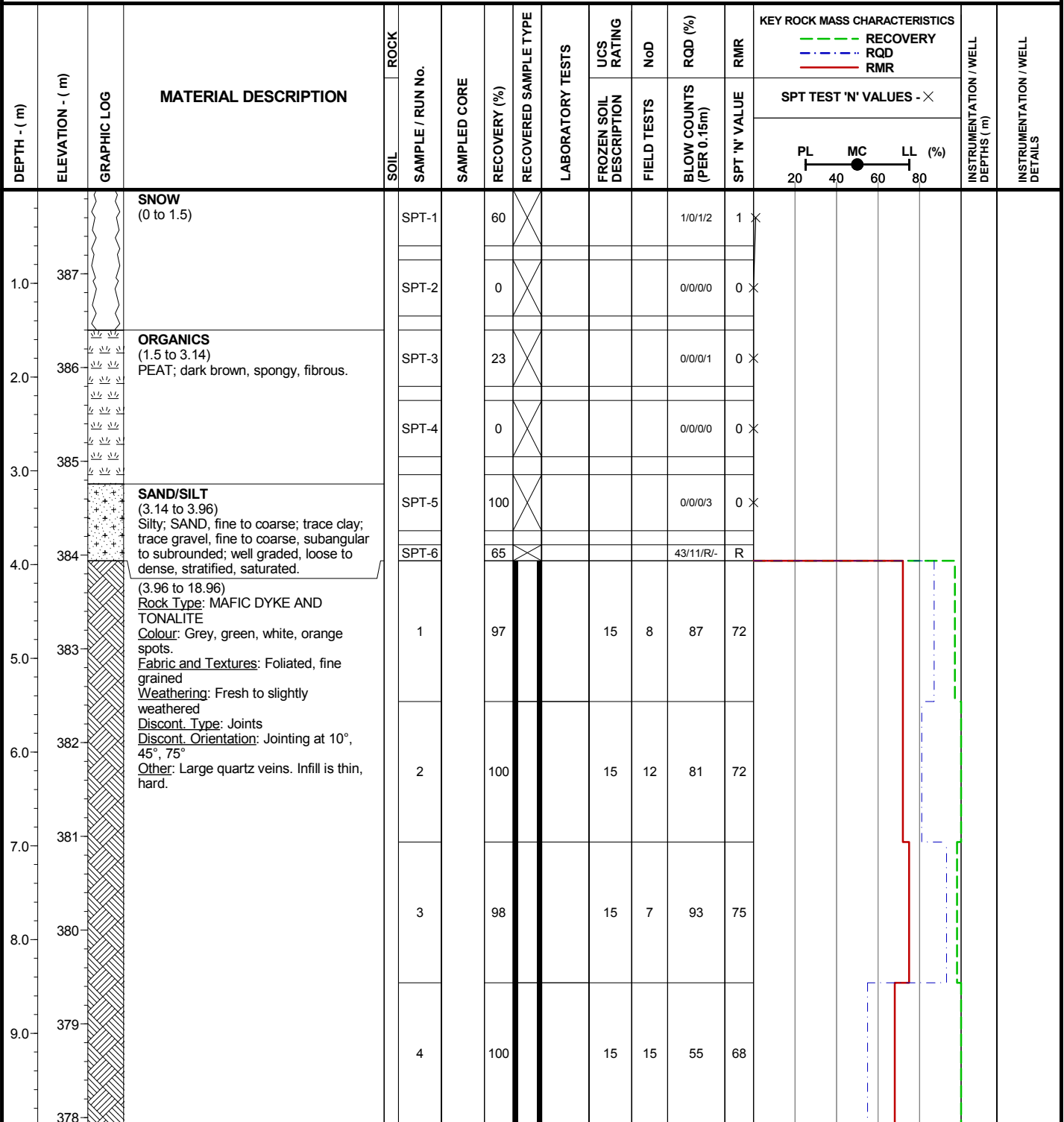
Coordinates: 5,270,849 N, 428,375 E

Elevation: 388 m

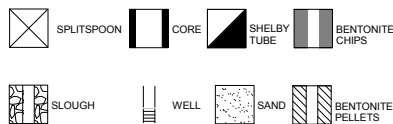
Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.27

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-08

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 19 Mar 13

Location: Freshwater Diversion

Total Depth: 18.96 m

Date Completed: 19 Mar 13

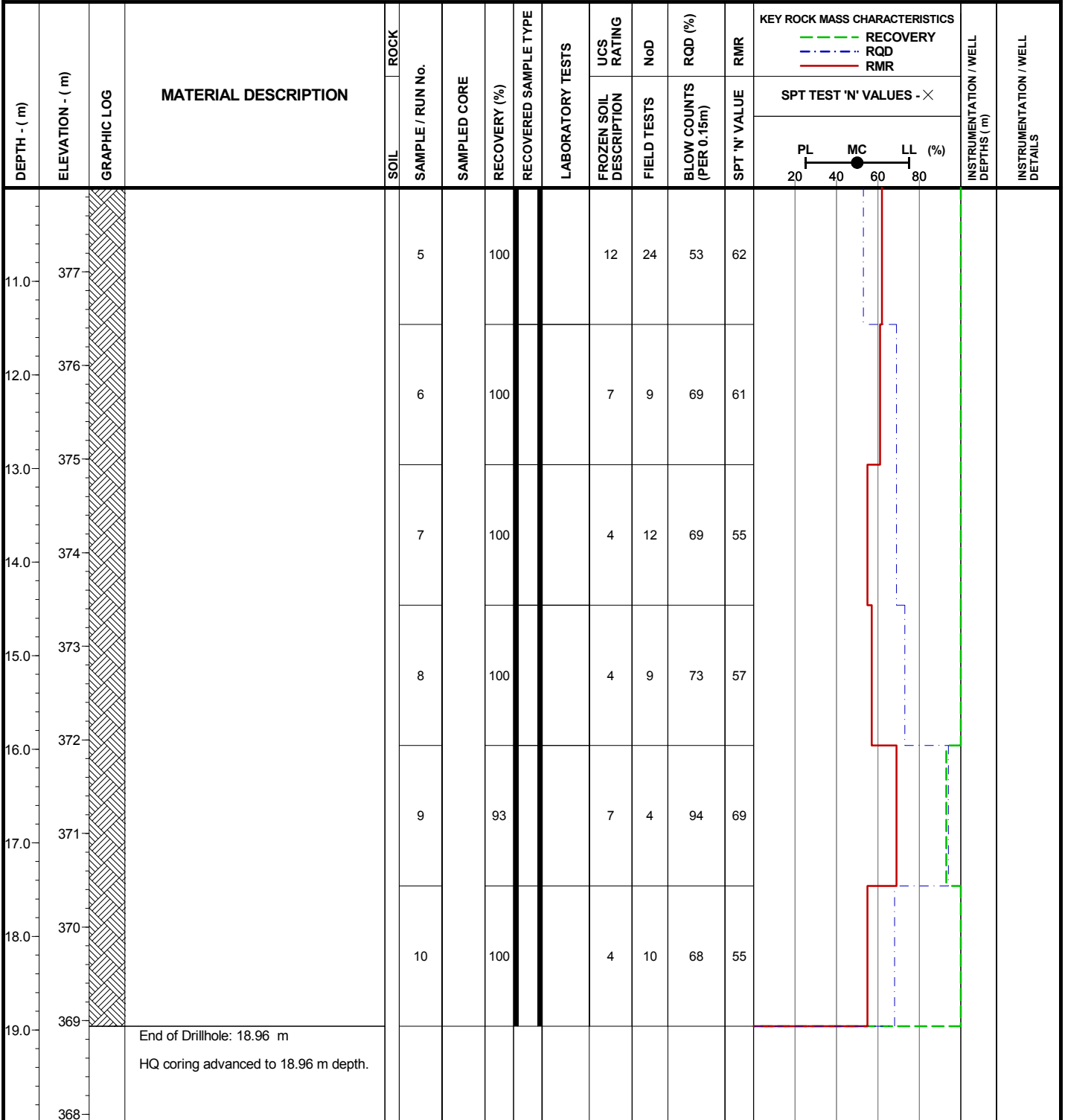
Coordinates: 5,270,849 N, 428,375 E

Elevation: 388 m

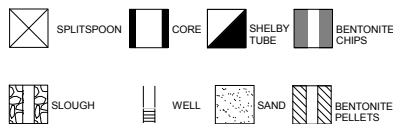
Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.27

I:\1100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\1100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-09

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 20 Mar 13

Location: Freshwater Diversion

Total Depth: 19.07 m

Date Completed: 21 Mar 13

Coordinates: 5,272,553 N, 427,777 E

Elevation: 388 m

Logged by: TAM

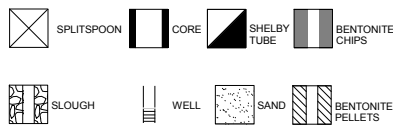
Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION			FIELD TESTS
	388		SNOW (0 to 0.6)				50	X				1/1/1/1	2						
	387		ORGANICS (0.6 to 0.78) PEAT; black, spongy, amorphous.				42	X				2/1/8/10	9						
	386		SAND/SILT (0.78 to 1.83) SAND, fine to coarse; AND SILT; trace gravel, fine to coarse, subangular to subrounded; well graded, grey, loose to dense, massive, moist to wet.				33	X				21/26/R/-	R						
	385		(1.83 to 19.07) Rock Type: HEMATITE STAINED TONALITE Colour: Pink, white, black, dark green, grey Fabric and Textures: Fine to medium grained Weathering: Fresh to slightly weathered Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45°, 60° Other: Infill is thin, hard, dark red or dark green.			1	100			15	5	84	74						
	384					2	97			15	6	90	74						
	383					3	100			15	9	83	71						
	382					4	100			15	8	79	71						
	381					5	100			15	4	100	77						
	380					6	95			15	4	91	77						
	379																		

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.28

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-FD-09

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 20 Mar 13

Location: Freshwater Diversion

Total Depth: 19.07 m

Date Completed: 21 Mar 13

Coordinates: 5,272,553 N, 427,777 E

Elevation: 388 m

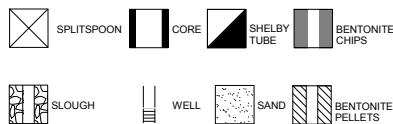
Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
378																			
11.0	377					7	100			15	4	100	77						
12.0	376					8	93			15	7	69	68						
13.0	375					9	100			15	6	79	74						
14.0	374					10	100			15	6	87	74						
15.0	373					11	88			15	6	96	75						
16.0	372					12	100			15	6	96	76						
17.0	371																		
18.0	370																		
19.0	369		End of Drillhole: 19.07 m HQ coring advanced to 19.07 m depth.																

SYMBOLS:



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CÔTÉ GOLD PROJECT

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.28

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-01

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 15 Feb 13

Location: Pit Overburden

Total Depth: 10.06 m

Date Completed: 16 Feb 13

Coordinates: 5,266,977 N, 431,020 E

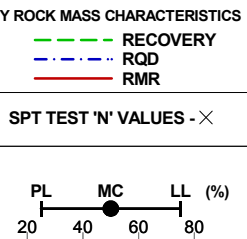
Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY		
			ORGANICS (0 to 4.2) PEAT; brown, spongy, fibrous, wet to saturated. With root inclusions.															
1.0	380					SPT-1	17					1/0/0/0	0	X				
2.0	379					SPT-2	17					1/0/1/1	1	X				
3.0	378					SPT-3	25					0/0/0/1	0	X				
4.0	377					SPT-4	0					0/0/0/0	0	X			3.35	
5.0	376		SILT (4.2 to 5.34) SILT; some sand, fine; trace clay; low plasticity, grey, firm, massive, saturated.			SPT-5	58					0/0/0/0	0	X			4.01	
			SILT (5.34 to 8.38) SILT; trace sand, fine; trace clay; low plasticity, grey, stiff, massive, saturated.			SPT-6	33					0/2/4/5	6	X	●			
						SPT-7	33					1/6/6/4	12	X				



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.1

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-01

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 15 Feb 13

Location: Pit Overburden

Total Depth: 10.06 m

Date Completed: 16 Feb 13

Coordinates: 5,266,977 N, 431,020 E

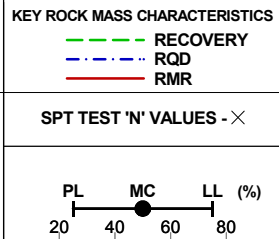
Elevation: 381 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION			FIELD TESTS
7.0	374		SILT (5.34 to 8.38) SILT; trace sand, fine; trace clay; low plasticity, grey, stiff, massive, saturated.			SPT-8	58					3/3/6/8	9						
7.0	374					SPT-9	50					3/6/8/7	14						
8.0	373					SPT-10	67					7/7/7/7	14						
9.0	372		SILT/SAND (8.38 to 9.14) SILT; AND SAND, fine to medium; non plastic, grey, very soft, massive, saturated.			SPT-11	8					0/0/1/2	1						
10.0	371		SAND (9.14 to 10.06) SAND; fine to coarse; some silt; well graded, grey, massive, loose, saturated.			SPT-12	67					6/5/4/6	9						
11.0	370		End of Drillhole: 10.06 m Auger refusal at 10.06 m depth. Flowing sand at 10.0 m depth. One monitoring well installed (in overburden) at this location. On February 16, 2013 the water level in the well was 0.62 m below surface.																



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.1

I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-02

Page: 1 of 3

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 12 Feb 13

Location: Pit Overburden

Total Depth: 19.20 m

Date Completed: 13 Feb 13

Coordinates: 5,266,934 N, 430,620 E

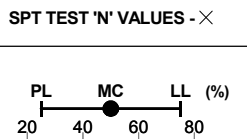
Elevation: 382 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
	381		SNOW (0 to 0.6) SNOW; trace peat; brown, frozen.		SPT-1		17					1/0/1/1	1					
1.0			ORGANICS (0.6 to 2.25) PEAT, brown, spongy, fibrous, wet. With root inclusions.		SPT-2		8					1/1/1/1	2					
2.0			ORGANICS (2.25 to 2.65) Sandy, fine to medium; PEAT; dark brown, spongy, fibrous, wet. With root inclusions.		SPT-3		8					1/0/0/0	0					
3.0			SILT (2.65 to 6.85) SILT; trace clay; trace sand, fine; medium plasticity, grey, firm to stiff, stratified, saturated.		SPT-4		67					1/4/6/7	10					
4.0					SPT-5		50					3/4/5/5	9					
5.0					SPT-6		67					3/3/3/3	6					
6.0					SPT-7		75					3/4/5/5	9					
					SPT-8		67					2/3/4/5	7					
					SPT-9		50					3/5/5/5	10					



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.2

I:\110100497\05\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-02

Page: 2 of 3

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 12 Feb 13

Location: Pit Overburden

Total Depth: 19.20 m

Date Completed: 13 Feb 13

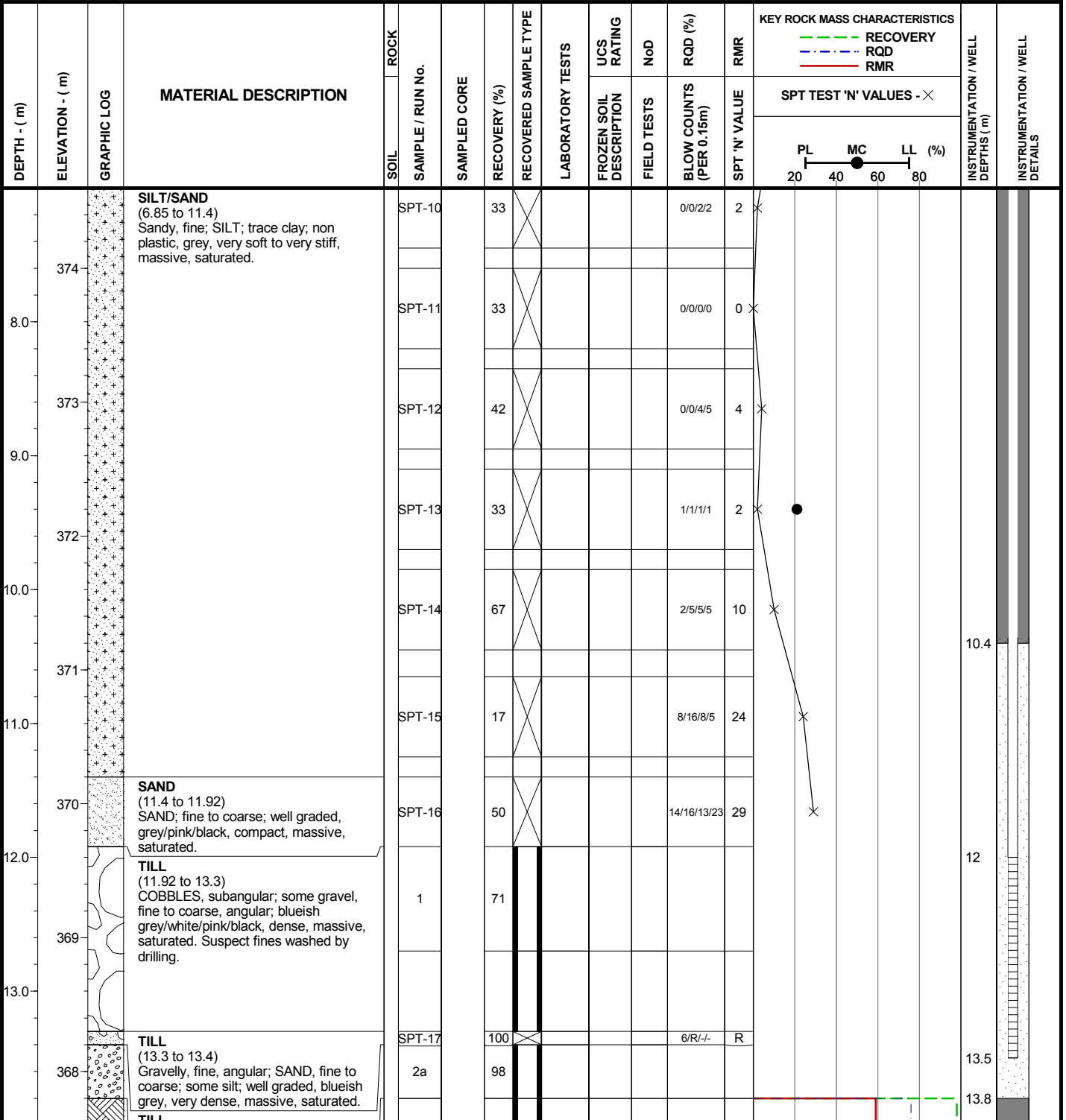
Coordinates: 5,266,934 N, 430,620 E

Elevation: 382 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM



SYMBOLS:

- [Symbol] SPLITSPOON
- [Symbol] CORE
- [Symbol] SHELBY TUBE
- [Symbol] BENTONITE CHIPS
- [Symbol] SLOUGH
- [Symbol] WELL
- [Symbol] SAND
- [Symbol] BENTONITE PELLETS

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Project No. NB101-497/5 Ref. No. 1 Rev. 0

FIGURE A1.2

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-02

Page: 3 of 3

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 12 Feb 13

Location: Pit Overburden

Total Depth: 19.20 m

Date Completed: 13 Feb 13

Coordinates: 5,266,934 N, 430,620 E

Elevation: 382 m

Logged by: RWT

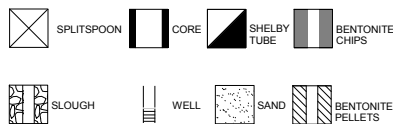
Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
	367		(13.4 to 13.8) GRAVEL, fine to coarse, angular to subangular; trace sand, coarse; poorly graded, grey/white/black/pink, very dense, massive, saturated. Suspect fines washed by drilling.		2b		98			4	3	76	59						
	366		(13.8 to 14.8) Rock Type: TONALITE Colour: Blueish grey Fabric and Textures: Massive, fine grained. Weathering: Moderately Weathered to Fresh Discont. Type: Joint, Vein, Veinlet. Discont. Orientation: Jointing at 45° and 70° Other: Soft thin calcite and chlorite infill. White veins and veinlet's at 45°. Moderately weathered from 13.8 - 14.0 m.		3		100			15	7	86	68						
	365		(14.8 to 19.2) Rock Type: TONALITE Colour: Blueish grey Fabric and Textures: Massive, fine grained. Weathering: Fresh Discont. Type: Joint, Vein, Veinlet. Discont. Orientation: Jointing at 45° and 60° Other: Soft thin calcite and chlorite infill. White veins and veinlet's at 45°.		4		100			7	4	97	65						
	364																		
	363				5		100			7	4	100	67						
	362		End of Drillhole: 19.2 m The drillhole location is flat with white birch / cedar and balsam trees. HQ coring advanced to 19.2 m depth. On February 15, 2013 the water level in the well was 0.37 m below surface.																
	361																		

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

SYMBOLS:



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CÔTÉ GOLD PROJECT**

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CONSULTING**

Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.2

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-03

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 8 Mar 13

Location: Pit Overburden

Total Depth: 22.00 m

Date Completed: 9 Mar 13

Coordinates: 5,266,402 N, 430,332 E

Elevation: 382 m

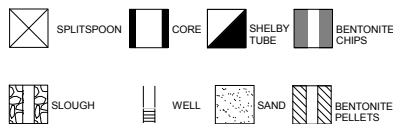
Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
	380		SNOW (0 to 0.5) Snow overlying overburden approximately 0.5 m thick.		SPT-1		33	X				6/1/0/0	1	X				
			ORGANICS (0.5 to 1.7) PEAT; brown, spongy, fibrous to amorphous, frozen to moist.		SPT-2		0	X				0/0/0/0	0	X				
2.0	380		SAND/SILT (1.7 to 5.29) Silty; SAND, fine to medium; trace clay; poorly graded, grey, very loose to compact, stratified, saturated.		SPT-3		72	X				6/5/6/7	11	X				
					SPT-4		65	X				2/5/5/7	10	X				
					SPT-5		100	X				1/1/2/2	3	X	●			
	378				SPT-6		100	X				2/4/9/7	13	X				
					SPT-7		100	X				0/1/5/4	6	X				
					SPT-8		100	X				5/5/5/5	10	X	●			
	376		SILT/SAND (5.29 to 8.33) SILT; AND SAND, fine; trace clay, medium plasticity, light grey, firm, massive, wet.		SPT-9		100	X				3/5/6/4	11	X				
					SPT-10		100	X				4/6/5/5	11	X				
					SPT-11		100	X				1/4/5/5	9	X	●			
	374				SPT-12		50	X				5/6/6/25	12	X				
					SPT-13		100	X				4/9/14/16	23	X				
	372		TILL (9.72 to 11.27) GRAVEL, fine to coarse, subangular; some cobbles, subangular; trace boulders, subangular; well graded, grey/black/white/pink/red/dark green, loose, massive, saturated. Suspect fines washed by drilling.		1		77											
					2		67											
			NO RECOVERY (11.27 to 13) Suspect fines washed by drilling.															
	370																	

SYMBOLS:



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CÔTÉ GOLD PROJECT

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.3

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-03

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 8 Mar 13

Location: Pit Overburden

Total Depth: 22.00 m

Date Completed: 9 Mar 13

Coordinates: 5,266,402 N, 430,332 E

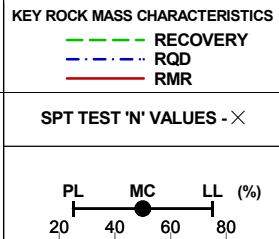
Elevation: 382 m

Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
			NO RECOVERY (11.27 to 13) Suspect fines washed by drilling.															
	368		SAND (13 to 13.15) SAND, fine to medium; some silt; well graded, brown/light grey, dense, massive, dry.		SPT-14		100					25/R/-	R					
	368		TILL (13.15 to 17.25) GRAVEL, fine to coarse; MANY COBBLES, some boulders; subangular; well graded, grey/black/red/white/dark green, loose, massive, saturated. Suspect fines washed by drilling.			4	41											
	366					5	53											
	366					6a	100											
	364		(17.25 to 22) Rock Type: HEMATITE STAINED TONALITE Colour: Red, black, dark green Fabric and Textures: Massive, fine to medium. Weathering: Slightly weathered Discont. Type: Broken Zone Other: Infill is thick soft and dark green. Some joint faces stained. Broken Zone.			6b	83		7		0	42						
	364					7	100		15		0	48						
	362					8	3		15	4	0	48						
	360					9	41		15	12	0	48						
	358		End of Drillhole: 22 m The drillhole location is flat with white birch / balsam and cedar trees HQ coring advanced to 22.0 m depth.															



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.3

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-04

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 7 Mar 13

Location: Pit Overburden

Total Depth: 14.33 m

Date Completed: 7 Mar 13

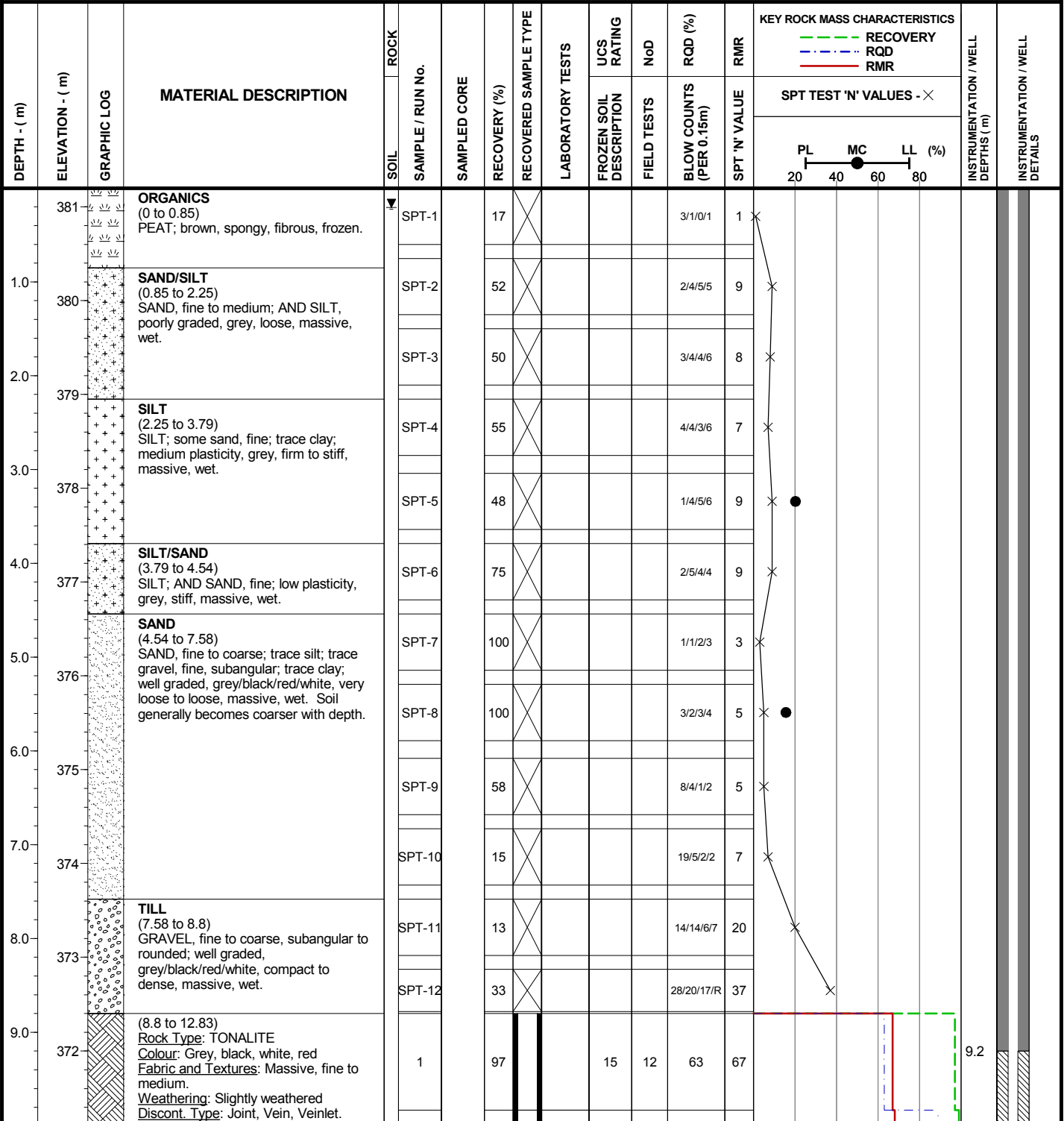
Coordinates: 5,266,110 N, 430,113 E

Elevation: 381 m

Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.4

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-04

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 7 Mar 13

Location: Pit Overburden

Total Depth: 14.33 m

Date Completed: 7 Mar 13

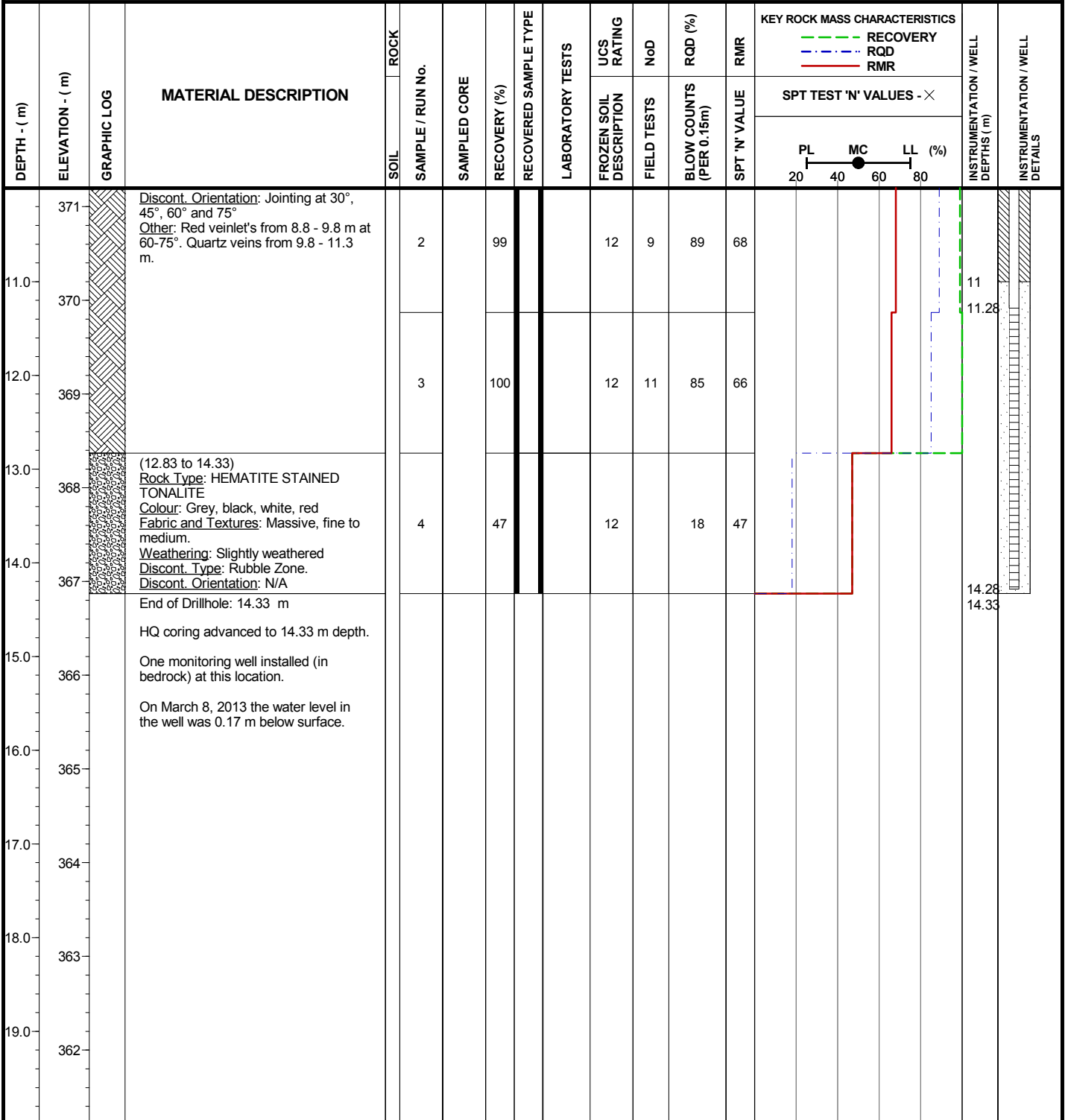
Coordinates: 5,266,110 N, 430,113 E

Elevation: 381 m

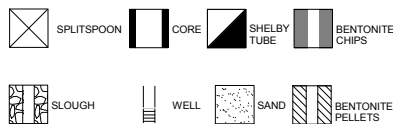
Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:



IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.4

I:\110100497\05\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-05

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 5 Mar 13

Location: Pit Overburden

Total Depth: 18.90 m

Date Completed: 6 Mar 13

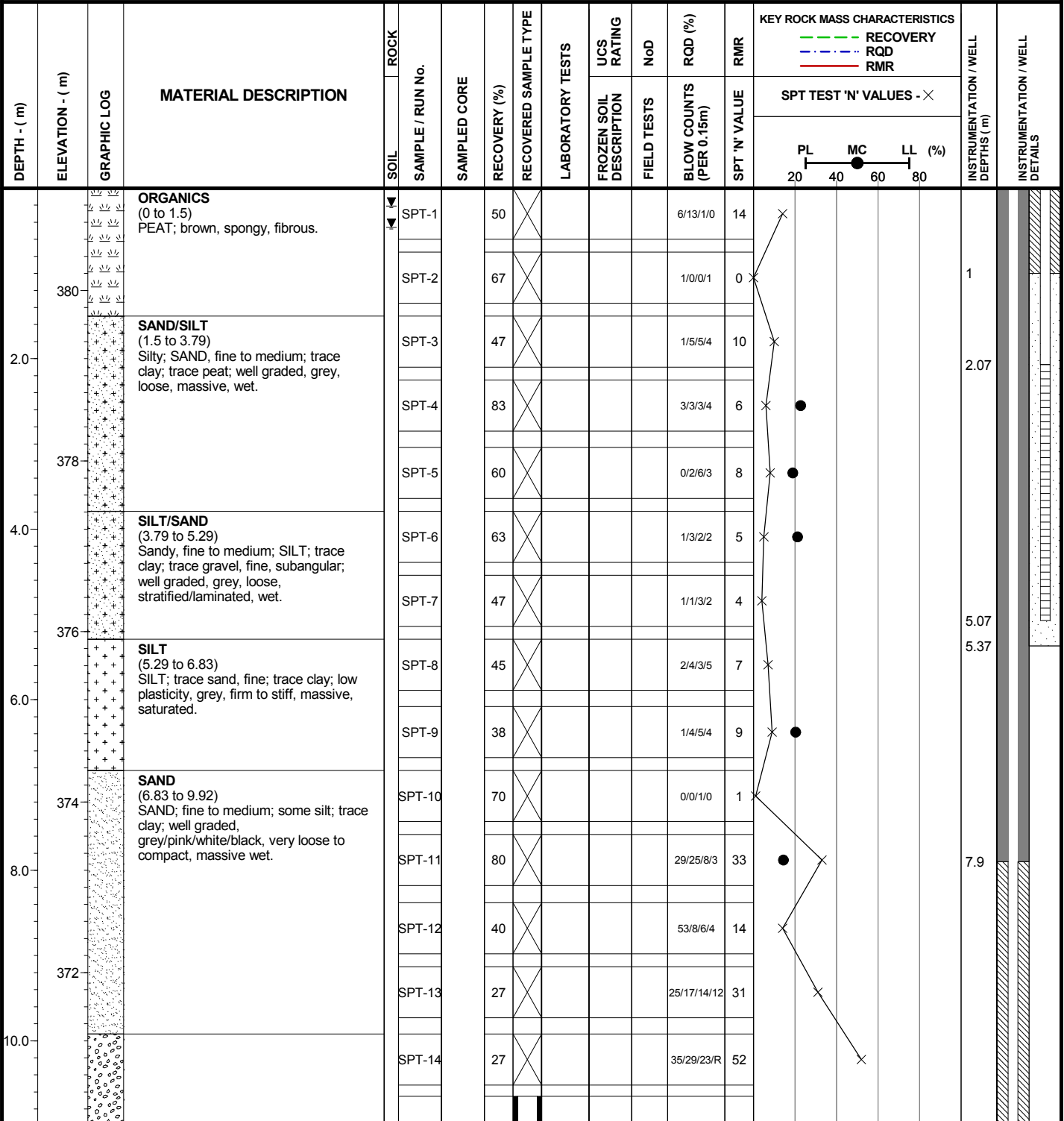
Coordinates: 5,265,922 N, 430,163 E

Elevation: 381 m

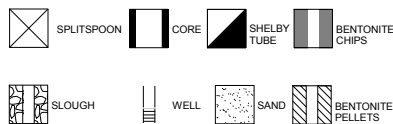
Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:



IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.5

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-05

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 5 Mar 13

Location: Pit Overburden

Total Depth: 18.90 m

Date Completed: 6 Mar 13

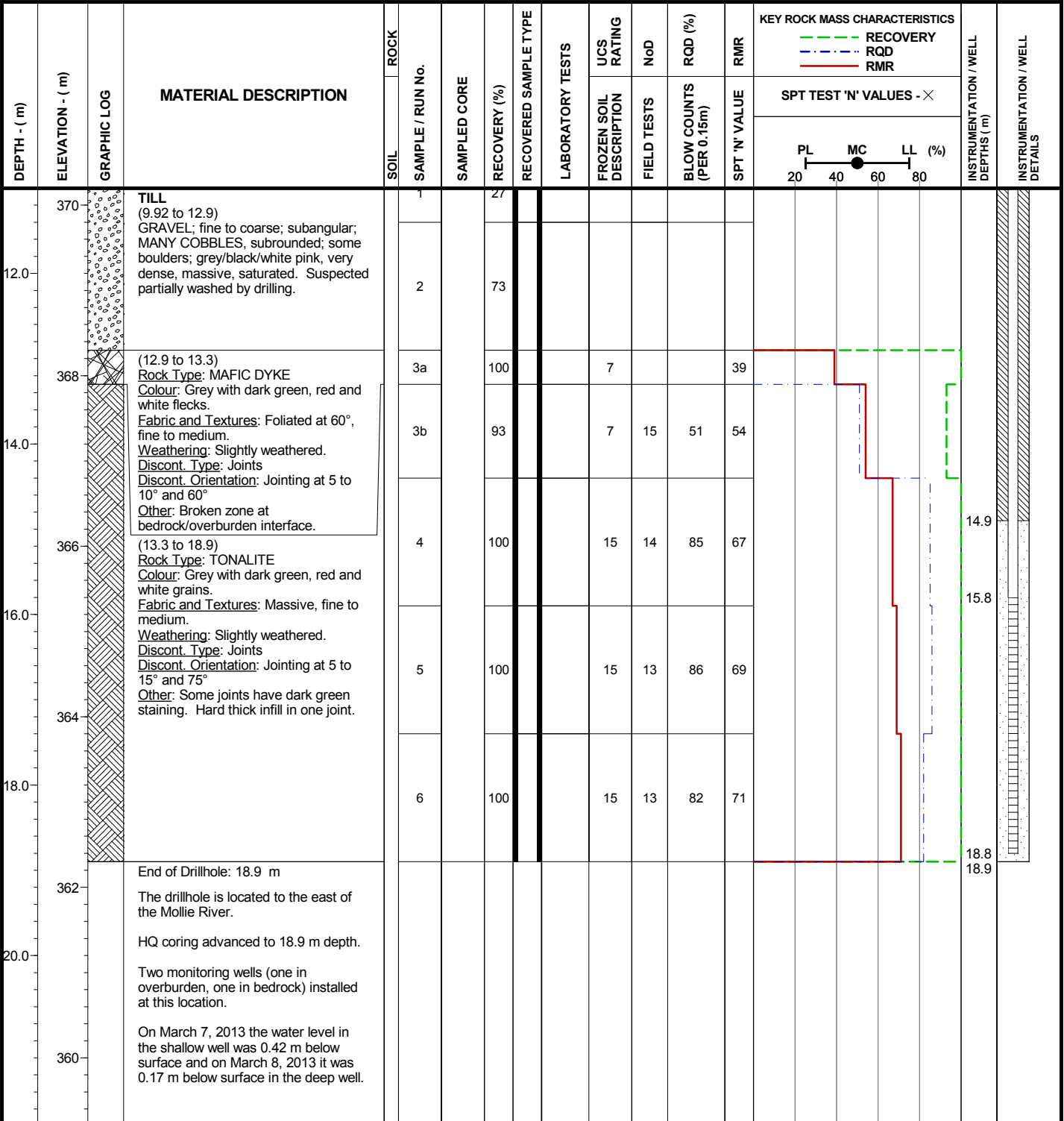
Coordinates: 5,265,922 N, 430,163 E

Elevation: 381 m

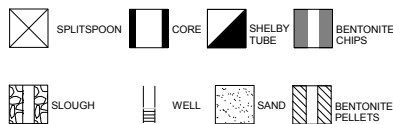
Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.5

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-06

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 5 Mar 13

Location: Pit Overburden

Total Depth: 12.60 m

Date Completed: 6 Mar 13

Coordinates: 5,265,761 N, 429,640 E

Elevation: 386 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL		
			SNOW/WATER/ICE (0 to 0.45) Ice thickness approximate.															
			WATER (0.45 to 1.68) Overburden begins 1.68 m below the ice surface.															
1.0			ORGANIC SILT (1.68 to 7.6) ORGANIC SILT; brown, plastic to spongy, fibrous to amorphous, saturated, with root and vegetation inclusions.															
2.0		SPT-1		0	X							0/0/0/0	0	X				
3.0				SPT-2	33	X							0/0/0/0	0	X			
4.0				SPT-3	0	X							0/0/0/0	0	X			
5.0				SPT-4	33	X							0/0/0/0	0	X			
6.0			SPT-5	100	X							0/0/0/0	0	X				
7.0			SILT/CLAY (7.6 to 8.7) Clayey; SILT; some sand, fine; low plasticity, grey, very soft, stratified, saturated.															
8.0				SPT-6	25	X							0/0/0/0	0	X			
9.0				SPT-7	33	X							0/0/0/0	0	X			
9.0			SILT/SAND (8.7 to 9.6) SILT; some gravel, fine, angular; some sand, fine to coarse; some clay; low plasticity, grey, hard, stratified, saturated. Sand layer from 9.2 - 9.3 m.															
9.0				SPT-8	67	X							0/0/0/0	0	X			
9.0			SPT-9	33	X							0/0/0/0	0	X				
9.0			SPT-10	67	X							0/13/21/9	34					
9.0			SPT-11	17	X							28/12/13/14	25					

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SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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FIGURE A1.6

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-06

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 5 Mar 13

Location: Pit Overburden

Total Depth: 12.60 m

Date Completed: 6 Mar 13

Coordinates: 5,265,761 N, 429,640 E

Elevation: 386 m

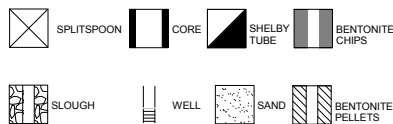
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY		
375	375		GRAVEL (9.6 to 11) GRAVEL, fine, angular; some sand, coarse; poorly graded, grey/white/pink, compact, massive, saturated.		SPT-12		8					13/3/4/8	7	PL	MC	LL (%)		
374	374		GRAVEL (11 to 12.6) Advance cone to 12.6 m depth. Switch to advancing a cone when the material became too coarse and could not be washed out of the casing.															
373	373		End of Drillhole: 12.6 m The drillhole is located on unnamed pond. Refusal at 12.6 m.															

SYMBOLS:



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FIGURE A1.6

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-08

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 3 Mar 13

Location: Pit Overburden

Total Depth: 6.94 m

Date Completed: 3 Mar 13

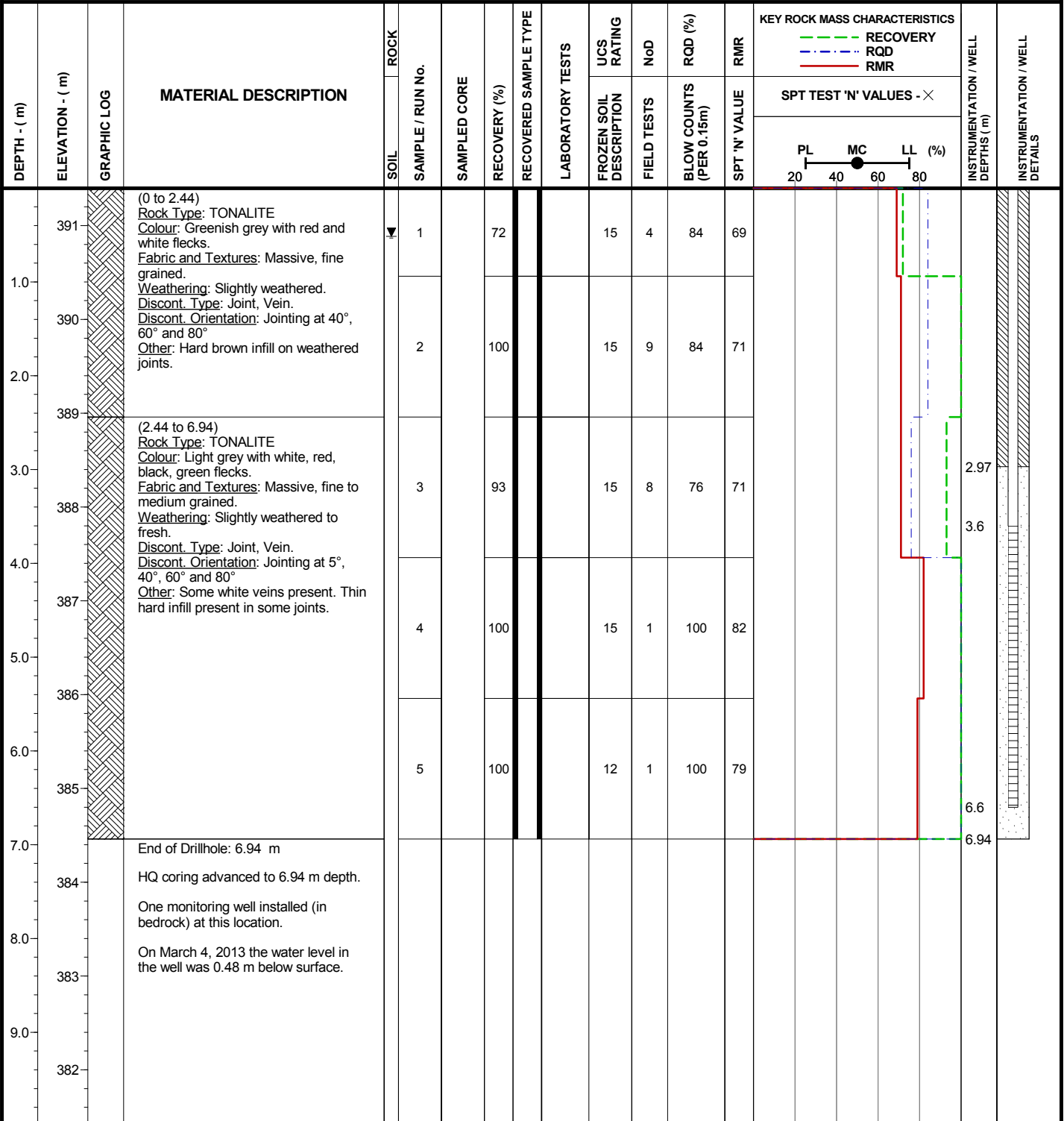
Coordinates: 5,265,371 N, 429,526 E

Elevation: 391 m

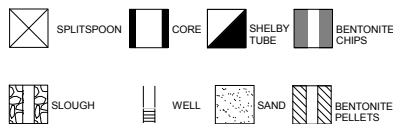
Logged by: TAM

Inclination: -90

Reviewed by: RSM



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FIGURE A1.7

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-09

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 2 Mar 13

Location: Pit Overburden

Total Depth: 10.07 m

Date Completed: 2 Mar 13

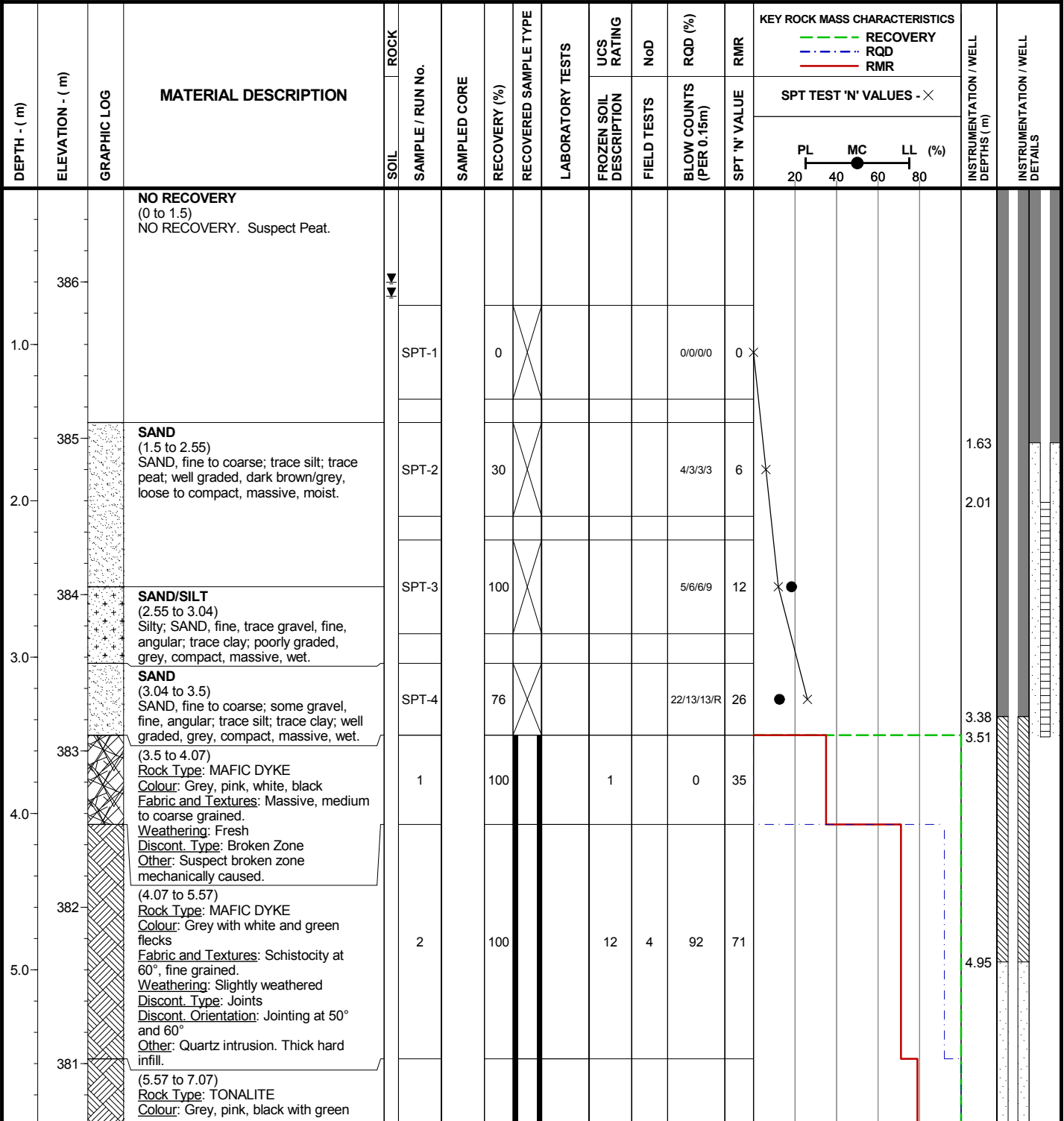
Coordinates: 5,265,611 N, 429,044 E

Elevation: 387 m

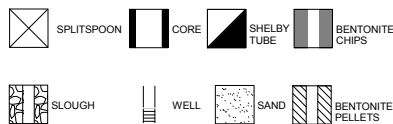
Logged by: TAM

Inclination: -90

Reviewed by: RSM



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.8

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-09

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 2 Mar 13

Location: Pit Overburden

Total Depth: 10.07 m

Date Completed: 2 Mar 13

Coordinates: 5,265,611 N, 429,044 E

Elevation: 387 m

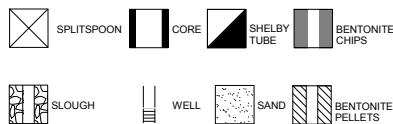
Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	PL			MC
380			and gold flecks. Fabric and Textures: Foliated at 20°, medium to coarse grained. Weathering: Slightly weathered. Discont. Type: Joint Discont. Orientation: Jointing at 20° Other: Quartz contact not well defined.		3		100			15	1	100	79						
379			(7.07 to 8.57) Rock Type: TONALITE Colour: Black, grey, white, pink, green Fabric and Textures: Schistosity at 60°, fine to coarse grained. Weathering: Slightly weathered. Discont. Type: Joint Discont. Orientation: Jointing at 20° and 60° Other: Thick soft infill.		4		93			7	6	89	61						
378			(8.57 to 10.07) Rock Type: TONALITE Colour: Grey, green, pink, black, white Fabric and Textures: Massive, fine to medium grained. Weathering: Slightly weathered Discont. Type: Joint Discont. Orientation: Jointing at 20° and 40°		5		100			12	9	85	64						
377																			
376			End of Drillhole: 10.07 m The drillhole is located on the south shore of Clam Lake. HQ coring advanced to 10.07 m depth. Two monitoring wells (one in overburden, one in bedrock) installed at this location. On March 3, 2013 the water level in the shallow well was 0.67 m below surface and in the deep well was 0.58 m below surface.																
375																			

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.8

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-10

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 6 Mar 13

Location: Pit Overburden

Total Depth: 10.00 m

Date Completed: 7 Mar 13

Coordinates: 5,265,769 N, 429,081 E

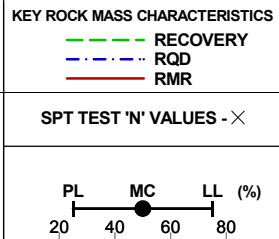
Elevation: 386 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY		
	386		SNOW/WATER/ICE (0 to 0.5) Ice thickness approximate.															
			WATER (0.5 to 1.8) Overburden begins 1.8 m below ice surface.															
2.0	384		ORGANICS (1.8 to 5) PEAT; AND ORGANIC SILT; dark brown, spongy to plastic, fibrous to amorphous; saturated, with root and vegetation inclusions.		SPT-1		0	X				0/0/0/0	0	X				
					SPT-3		33	X				0/0/0/0	0	X				
4.0	382				SPT-4		50	X				0/0/0/0	0	X				
					SPT-5		42	X				0/0/0/0	0	X				
			SILT (5 to 5.7) SILT; some clay; trace sand, fine; low plasticity, grey, very soft, stratified, saturated.		SPT-6		50	X				0/0/0/0	0	X				
6.0	380		SAND (5.7 to 7.1) SAND; fine to coarse; trace silt; trace clay; poorly graded, grey, loose to compact, massive, saturated. Sand becomes coarser with depth.		SPT-7		83	X				4/6/4/3	10	X				
					SPT-8		50	X				-1/4/3/6	7	X				
			NO RECOVERY (7.1 to 8.4) NO RECOVERY															
8.0	378		TILL (8.4 to 10) Gravelly, fine, angular; SAND, fine to coarse; some silt; trace clay; well graded, grey, loose to very dense, massive, compact, saturated.		SPT-9		25	X				28/7/4/3	11	X				
10.0	376		End of Drillhole: 10 m The drillhole is located on Clam Lake. Suspect refusal due to very dense till overlying bedrock.		SPT-10		67	X				70/55/R/-	R					



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.9

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-11

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 8 Mar 13

Location: Pit Overburden

Total Depth: 2.20 m

Date Completed: 8 Mar 13

Coordinates: 5,265,858 N, 428,771 E

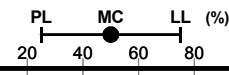
Elevation: 386 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY		
	386		SNOW/WATER/ICE (0 to 0.5) Ice thickness is approximate.															
	1.0		WATER (0.5 to 1.06) Overburden begins 1.06 m below ice surface.															
	385		SAND/ORGANICS (1.06 to 2.2) SAND, fine to coarse; AND PEAT; trace gravel, fine, angular: well graded, brown/grey, loose to compact, massive, saturated. Suspect spoon tracking down sloped bedrock during SPT-2.			SPT-1	25					0/0/5/9	5					
	2.0					SPT-2	33					9/11/9/20	20					
	384		End of Drillhole: 2.2 m The drillhole is located on Clam Lake adjacent to a small island feature. Refusal at 2.2 m depth.															
	383																	
	4.0																	
	382																	
	5.0																	
	381																	



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.10

I:\110100497\05\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-12

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 11 Mar 13

Location: Pit Overburden

Total Depth: 9.40 m

Date Completed: 11 Mar 13

Coordinates: 5,265,930 N, 428,954 E

Elevation: 386 m

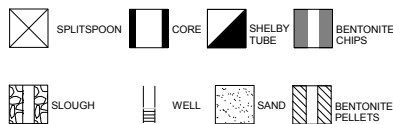
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY			
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
	386		SNOW/WATER/ICE (0 to 0.45) Ice thickness is approximate.																
			WATER (0.45 to 1.15) Overburden begins 1.15 m below ice surface.																
	385		ORGANIC SILT (1.15 to 6.1) ORGANIC SILT; brown, plastic, fibrous to amorphous, saturated.																
				SPT-1		0	X					0/0/0/0	0	X					
				SPT-2		0	X					0/0/0/0	0	X					
				SPT-3		0	X					0/0/0/0	0	X					
				SPT-4		100						0/0/0/0	0	X					
				SPT-5		83						0/0/0/0	0	X					
				SPT-6		0	X					0/0/0/0	0	X					
				SPT-7		83						0/0/0/0	0	X					
				SPT-8		83						0/0/0/0	0	X					

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.11

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-12

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 11 Mar 13

Location: Pit Overburden

Total Depth: 9.40 m

Date Completed: 11 Mar 13

Coordinates: 5,265,930 N, 428,954 E

Elevation: 386 m

Logged by: RWT

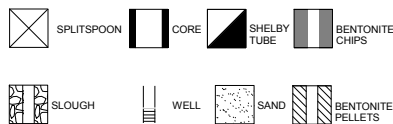
Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
380	380		SILT (6.1 to 7) SILT; some clay; trace sand, fine; medium plasticity, grey, very soft to very stiff, stratified, saturated.			SPT-9	100					0/0/1/1	1					
7.0	379		SAND/SILT (7 to 7.6) Silty; SAND, fine to medium; trace gravel, fine, angular; poorly graded, grey, compact, massive.			SPT-10	100					1/1/15/6	16					
	379		SILT (7.6 to 8.2) SILT; some gravel, fine, angular; trace clay; trace sand, fine; low plasticity, grey, stiff, massive, saturated.			SPT-11	50					6/8/9/9	17					
8.0	378		SILT/SAND (8.2 to 8.8) Sandy, fine to coarse; SILT; trace gravel, fine, angular; trace clay; grey, compact, stratified, saturated.			SPT-12	50					5/7/6/7	13					
	378		TILL (8.8 to 9.4) Silty; SAND, fine to coarse; AND GRAVEL, fine, angular; well graded, grey, very dense, stratified to massive, saturated.			SPT-13	42					6/6/18/9	24					
9.0	377		TILL (8.8 to 9.4) Silty; SAND, fine to coarse; AND GRAVEL, fine, angular; well graded, grey, very dense, stratified to massive, saturated.			SPT-14	42					48/21/28/43	49					
	377		End of Drillhole: 9.4 m			SPT-15	0					R/-/-/-	R					
	376		The drillhole is located on Clam Lake. Refusal at 9.4 m depth.															
11.0	375																	

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

SYMBOLS:



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CÔTÉ GOLD PROJECT**

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.11

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-13

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 10 Mar 13

Location: Pit Overburden

Total Depth: 7.85 m

Date Completed: 11 Mar 13

Coordinates: 5,266,051 N, 428,825 E

Elevation: 386 m

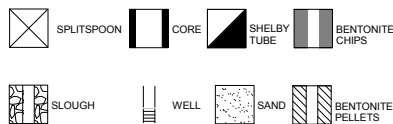
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY			
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
	386		SNOW/WATER/ICE (0 to 0.5) Ice thickness is approximate.																
	385		WATER (0.5 to 2.15) Overburden begins 2.15 m below ice surface.																
	384		ORGANIC SILT (2.15 to 3.95) ORGANIC SILT; trace clay; plastic, brown/grey, fibrous, saturated with root inclusions.	SPT-1		0						1/0/0/1	0	X					
	383			SPT-2		66						0/0/0/0	0	X					
	382			SPT-3		75						0/0/0/0	0	X					
	381		SILT (3.95 to 5.3) SILT; some clay; some sand, fine to coarse; medium plasticity, grey, soft to stiff, stratified, saturated. Sand becomes coarser with depth.	SPT-4		75						0/2/3/4	5	X	●				
				SPT-5		50						6/6/7/6	13	X					
				SPT-6		50						3/2/3/9	5	X					

SYMBOLS:



**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.12

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-13

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 10 Mar 13

Location: Pit Overburden

Total Depth: 7.85 m

Date Completed: 11 Mar 13

Coordinates: 5,266,051 N, 428,825 E

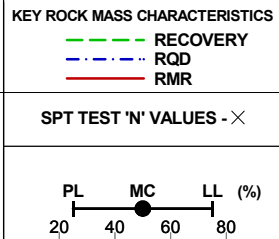
Elevation: 386 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL			MC
380			SILT/SAND (5.3 to 7.1) Sandy, fine to coarse; SILT; trace gravel, fine, angular; trace clay; well graded, grey, dense to compact, massive, saturated. Sand becomes coarser with depth and silt content decreases with depth.																
7.0																			
379			TILL (7.1 to 7.85) SAND, fine to coarse; AND GRAVEL, fine, angular; some silt; trace clay; poorly graded, grey, very dense, massive, saturated.																
8.0			End of Drillhole: 7.85 m The drillhole is located on Clam Lake. Refusal at 7.85 m depth.																
378																			
9.0																			
377																			
10.0																			
376																			
11.0																			
375																			



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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FIGURE A1.12

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-14

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 10 Mar 13

Location: Pit Overburden

Total Depth: 8.90 m

Date Completed: 10 Mar 13

Coordinates: 5,266,256 N, 428,738 E

Elevation: 386 m

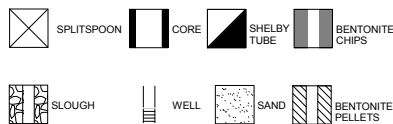
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY			
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
	386		SNOW/WATER/ICE (0 to 0.5) Ice thickness is approximate.																
	1.0		WATER (0.5 to 2.75) Overburden begins 2.75 m below ice surface.																
	385																		
	2.0																		
	384																		
	3.0		ORGANIC SILT (2.75 to 4.25) ORGANIC SILT; trace silt; trace sand, fine; trace clay; brown/grey, fibrous, saturated.			SPT-1	58	X				0/0/0	0	X					
	4.0					SPT-2	0	X				0/0/0	0	X					
	382		SILT/SAND (4.25 to 7.6) Sandy, fine; SILT; trace clay; low plasticity, grey, soft to stiff, stratified, saturated.			SPT-3	50	X				5/4/3/2	7	X					
	5.0					SPT-4	50	X				4/5/7/8	12	X	●				
	6.0					SPT-5	33	X				3/6/8/10	14	X					
	380					SPT-6	66	X				6/6/6/2	12	X	●				

SYMBOLS:



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FIGURE A1.13

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-14

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 10 Mar 13

Location: Pit Overburden

Total Depth: 8.90 m

Date Completed: 10 Mar 13

Coordinates: 5,266,256 N, 428,738 E

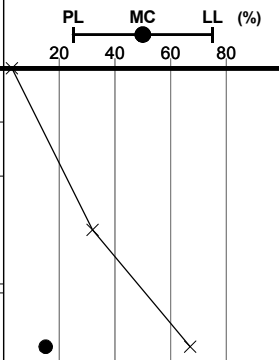
Elevation: 386 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL		
379			SILT/SAND (4.25 to 7.6) Sandy, fine; SILT; trace clay; low plasticity, grey, soft to stiff, stratified, saturated.			SPT-7	75	X				2/2/12	3					
8.0	378		SAND (7.6 to 8.9) SAND, fine to medium; some gravel, fine to coarse, angular; some silt; poorly graded, grey, compact to very dense, massive, saturated. Sand becomes coarser with depth and silt content decreases with depth.			SPT-8	66	X				6/12/20/13	32					
						SPT-9	100	X				27/20/47/62	67	●				
9.0	377		End of Drillhole: 8.9 m The drillhole is located on Clam Lake. Refusal at 8.90 m depth			SPT-10	0	X				R/-/-	R					



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.13

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-15

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 9 Mar 13

Location: Pit Overburden

Total Depth: 8.35 m

Date Completed: 10 Mar 13

Coordinates: 5,266,405 N, 428,679 E

Elevation: 387 m

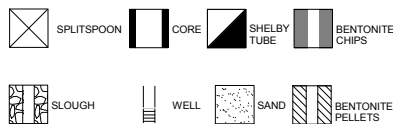
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL SAMPLE / RUN No.	ROCK SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RGD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
														RECOVERY	RQD	RMR			
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
	386		SNOW/ICE (0 to 0.4) Ice thickness is approximate.																
1.0	385		ORGANICS (0.4 to 2.3) PEAT; brown, spongy, fibrous, wet, with root inclusions.	SPT-1			0	X				1/1/1/1	2	X					
2.0	385			SPT-2			50	X				1/1/1/1	2	X					
3.0	384		SILT/SAND (2.3 to 4.3) Sandy, fine to coarse; SILT; trace clay; trace gravel, fine, angular; non-plastic, grey, stiff to hard, massive, saturated.	SPT-3			42	X				8/14/16/14	30	X					
3.5	383			SPT-4			50	X				9/13/10/10	23	X					
4.0	383			SPT-5			58	X				7/5/7/7	12	●					
4.5	382			SPT-6			67	X				12/12/10/7	22	X					
5.0	381		SAND/SILT (4.3 to 5.6) Silty; SAND, fine to coarse; trace gravel, fine, angular; trace clay; poorly graded, grey, compact, massive, saturated.	SPT-7			67	X				4/5/13/7	18	●					
6.0	381		TILL (5.6 to 8.35) SAND, fine to coarse; AND GRAVEL, fine, angular; some silt; trace clay; well graded, grey, loose to very dense, massive, saturated.	SPT-8			8	X				19/14/13/14	27	X					
7.0	380			SPT-9			25	X				32/30/20/15	50	●					
7.5	380			SPT-10			33	X				29/31/23/15	54	X					
8.0	379			SPT-11			42	X				4/4/2/5	6	●					
8.35	378		End of Drillhole: 8.35 m The drillhole is located on Clam Lake. Refusal at 8.35 m depth.																
9.0	377																		

SYMBOLS:



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FIGURE A1.14

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-16

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 25 Feb 13

Location: Pit Overburden

Total Depth: 8.45 m

Date Completed: 25 Feb 13

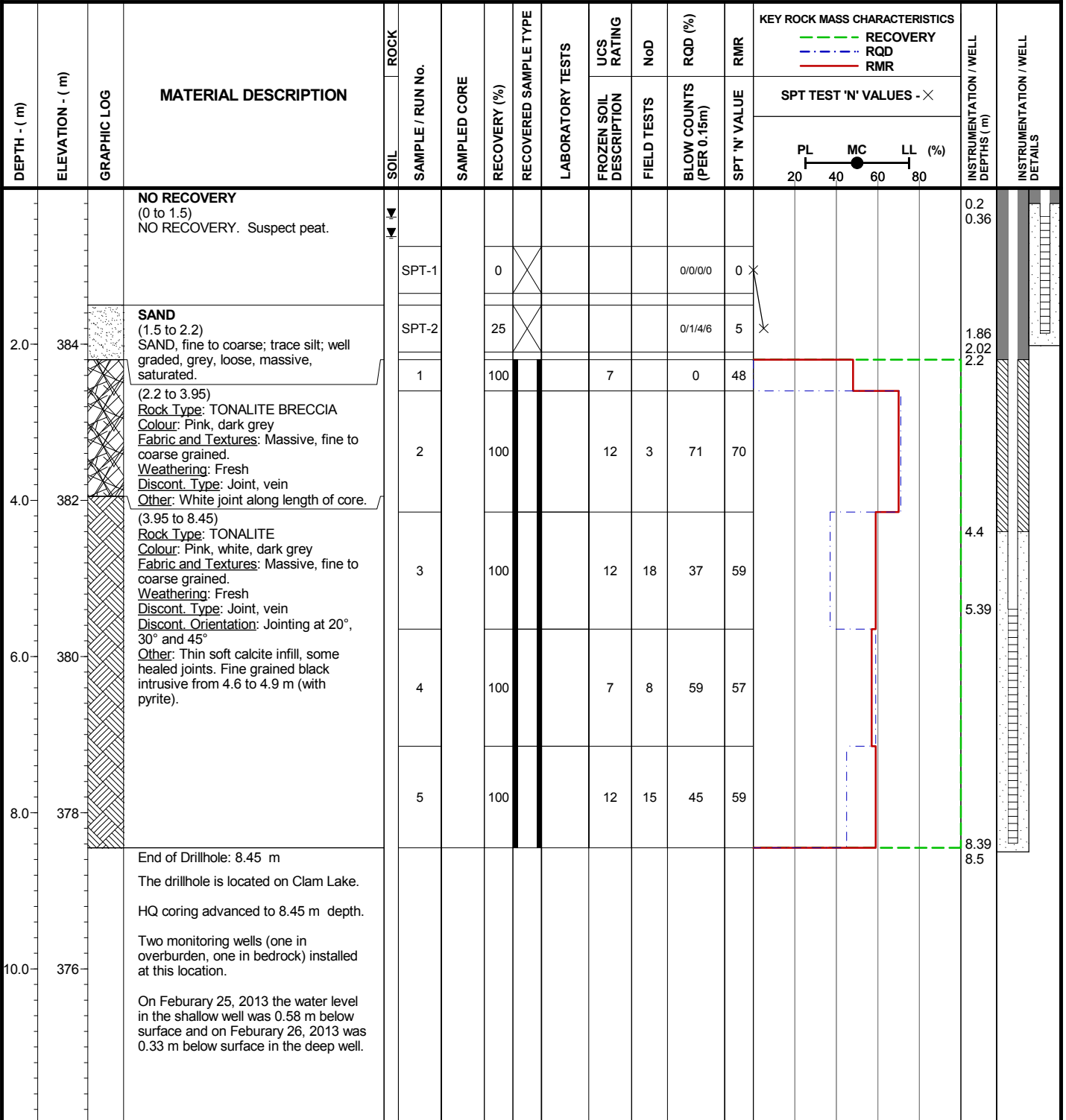
Coordinates: 5,267,009 N, 428,824 E

Elevation: 386 m

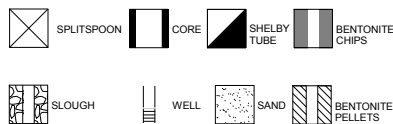
Logged by: RWT

Inclination: -90

Reviewed by: RSM



SYMBOLS:



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FIGURE A1.15

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-17

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 25 Feb 13

Location: Pit Overburden

Total Depth: 8.70 m

Date Completed: 26 Mar 13

Coordinates: 5,267,083 N, 428,745 E

Elevation: 386 m

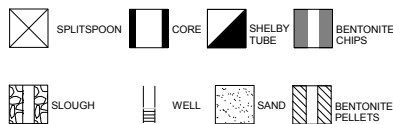
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RGD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									SPT TEST 'N' VALUES - X	PL	MC		
386			ORGANICS (0 to 0.75) PEAT; spongy, brown, fibrous, moist.															
385	1.0		TILL (0.75 to 2.4) GRAVEL, fine to coarse, angular; some sand, fine to coarse; trace silt; poorly graded, brownish grey/pink/white/grey, very dense, massive, saturated.		SPT-1		33					8/13/22/21	35					
384	2.0				SPT-2		8					8/30/22/15	52					
383	3.0		(2.4 to 8.7) Rock Type: TONALITE BRECCIA Colour: Red, grey, white. Fabric and Textures: Massive, fine to medium grained. Weathering: Fresh. Discont. Type: Joints, healed joints, veinlets. Discont. Orientation: Jointing at 45° and 90° Other: Often no infill, some staining or slight weathering on joints. Thin white veinlets along discontinuities. Red mineralization along veinlet.		1a													
382	4.0				1b		100		7	1	79		66					
381	5.0				2		100		7	4	77		68					
380	6.0				3		100		7	12	47		51					
379	7.0				4		100		7	15	48		55					
378	8.0				5		100		12	9	87		71					
377	9.0		End of Drillhole: 8.7 m The drillhole is located on Clam Lake. HQ coring advanced to 8.7 m depth.															

SYMBOLS:



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FIGURE A1.16

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, DRILLHOLE LOG, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-18

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 19 Feb 13

Location: Pit Overburden

Total Depth: 7.13 m

Date Completed: 19 Feb 13

Coordinates: 5,267,220 N, 428,980 E

Elevation: 388 m

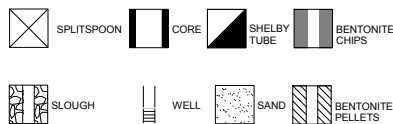
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL		
			ORGANICS (0 to 0.75) PEAT; brown, spongy, fibrous, moist with root inclusions. Trace snow in sample.				8					2/10/14/17	24					
			SAND (0.75 to 1.84) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; some silt; well graded, brown/light brown/pink/white/black, very dense, massive, wet. Suspected partially washed by drilling.				17					12/16/20/48	36					
			(1.84 to 4.83) Rock Type: DIORITE-TONALITE Colour: grey, white, pink, black Fabric and Textures: Massive, fine to medium grained. Weathering: Fresh to slightly weathered. Discont. Type: Joints Discont. Orientation: Jointing at 45° and 50° Other: Infill is green, possibly chlorite.				100			15	5	56	66					
							99			15	10	75	68					
			(4.83 to 6.14) Rock Type: HEMATITE STAINED				97			15	1	100	78					

SYMBOLS:



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Project No. NB101-497/5 Ref. No. 1 Rev. 0

FIGURE A1.17

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-18

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 19 Feb 13

Location: Pit Overburden

Total Depth: 7.13 m

Date Completed: 19 Feb 13

Coordinates: 5,267,220 N, 428,980 E

Elevation: 388 m

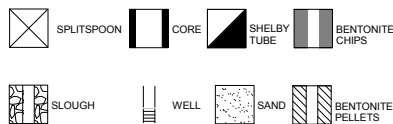
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	SPT TEST 'N' VALUES - X	PL		
	382		TONALITE Colour: white Fabric and Textures: Massive, medium grained. Weathering: Fresh to slightly weathered. Discont. Type: Joints Discont. Orientation: Jointing at 30° Other: Infill is thin, beige.															
	381		(6.14 to 7.13) Rock Type: HEMATITE STAINED TONALITE Colour: black, white, pink Fabric and Textures: Massive, fine to medium grained. Weathering: Fresh to slightly weathered. Discont. Type: Joints Discont. Orientation: Jointing at 60° and 75° Other: Infill is thin, hard grey-green.	4		99				15	40	40	56					
	380		End of Drillhole: 7.13 m HQ coring advanced to 7.13 m. One monitoring well installed (in bedrock) at this location. On February 20, 2013 the water level in the well was 0.41 m below surface.													7.08		
	378															7.13		

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.17

I:\110100497\05\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-19

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 23 Feb 13

Location: Pit Overburden

Total Depth: 11.65 m

Date Completed: 24 Feb 13

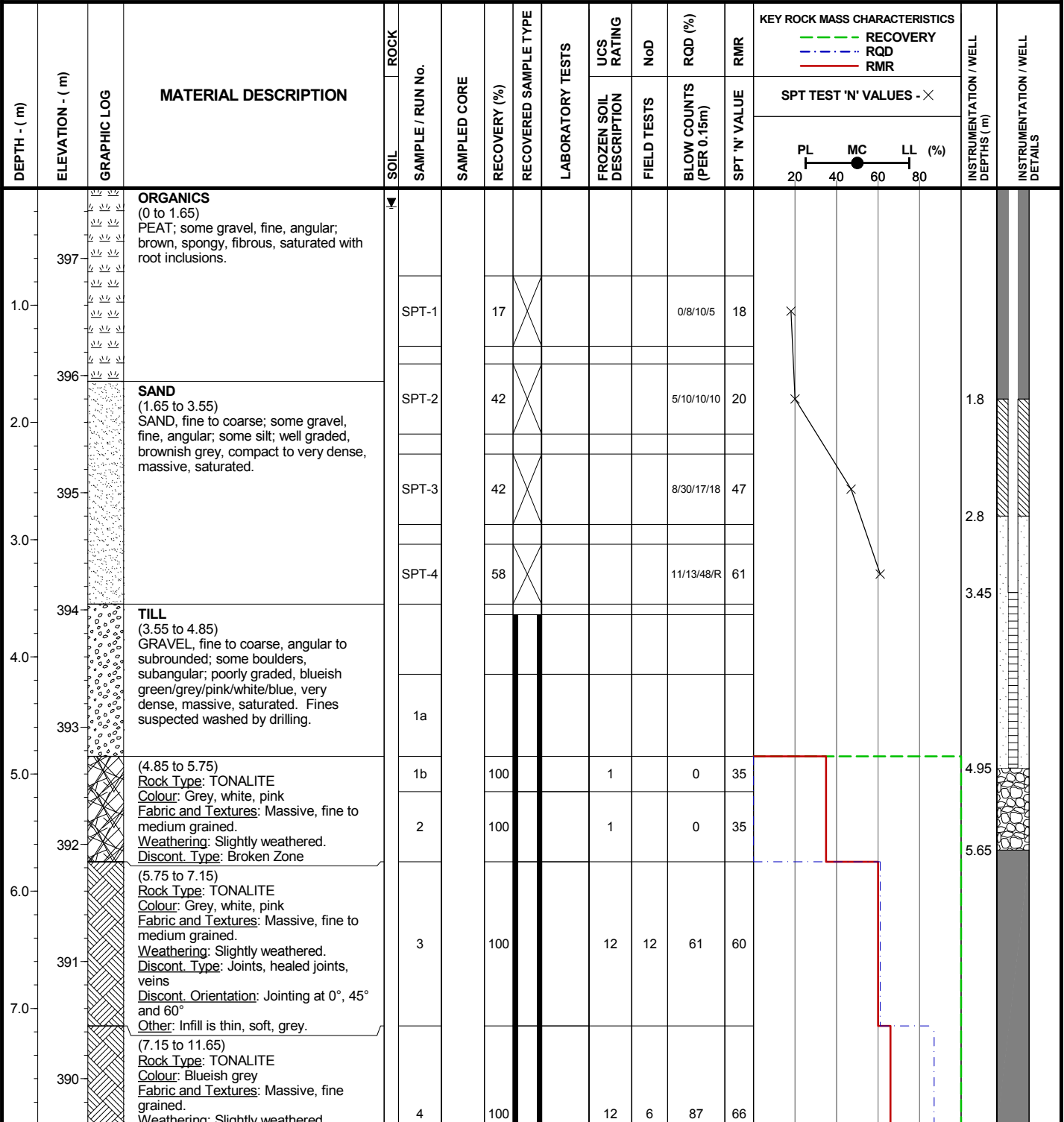
Coordinates: 5,267,481 N, 428,938 E

Elevation: 398 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM



SYMBOLS:

- [X symbol] SPLITSPOON
- [Core symbol] CORE
- [Shelby tube symbol] SHELBY TUBE
- [Bentonite chips symbol] BENTONITE CHIPS
- [SloUGH symbol] SLOUGH
- [Well symbol] WELL
- [Sand symbol] SAND
- [Bentonite pellets symbol] BENTONITE PELLETS

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Project No. NB101-497/5
Ref. No. 1
Rev. 0

FIGURE A1.18

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-19

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 23 Feb 13

Location: Pit Overburden

Total Depth: 11.65 m

Date Completed: 24 Feb 13

Coordinates: 5,267,481 N, 428,938 E

Elevation: 398 m

Logged by: RWT

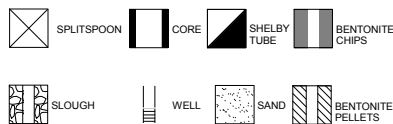
Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	FROZEN SOIL DESCRIPTION	FIELD TESTS			BLOW COUNTS (PER 0.15m)
389			<p><u>Discont. Type:</u> Joints, veins <u>Discont. Orientation:</u> Jointing at 20° and 45° <u>Other:</u> Infill is thin, soft, grey, sometimes thick. Various quartz and calcite veins and small broken zones.</p>																
9.0				5	100				12	6	83	66							
388				10.0		6	100				12	8	70	62					
387																			
386			End of Drillhole: 11.65 m																
12.0			The drillhole is located on the edge of a low-lying wet area.																
385			HQ coring advanced to 11.65 m depth.																
13.0			One monitoring well installed (in overburden) at this location.																
384			On February 24, 2013 the water level in the well was 0.13 m below surface.																
14.0																			
383																			
15.0																			
382																			

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SYMBOLS:



IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT



Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.18

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-20

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 22 Mar 13

Location: Pit Overburden

Total Depth: 7.14 m

Date Completed: 22 Mar 13

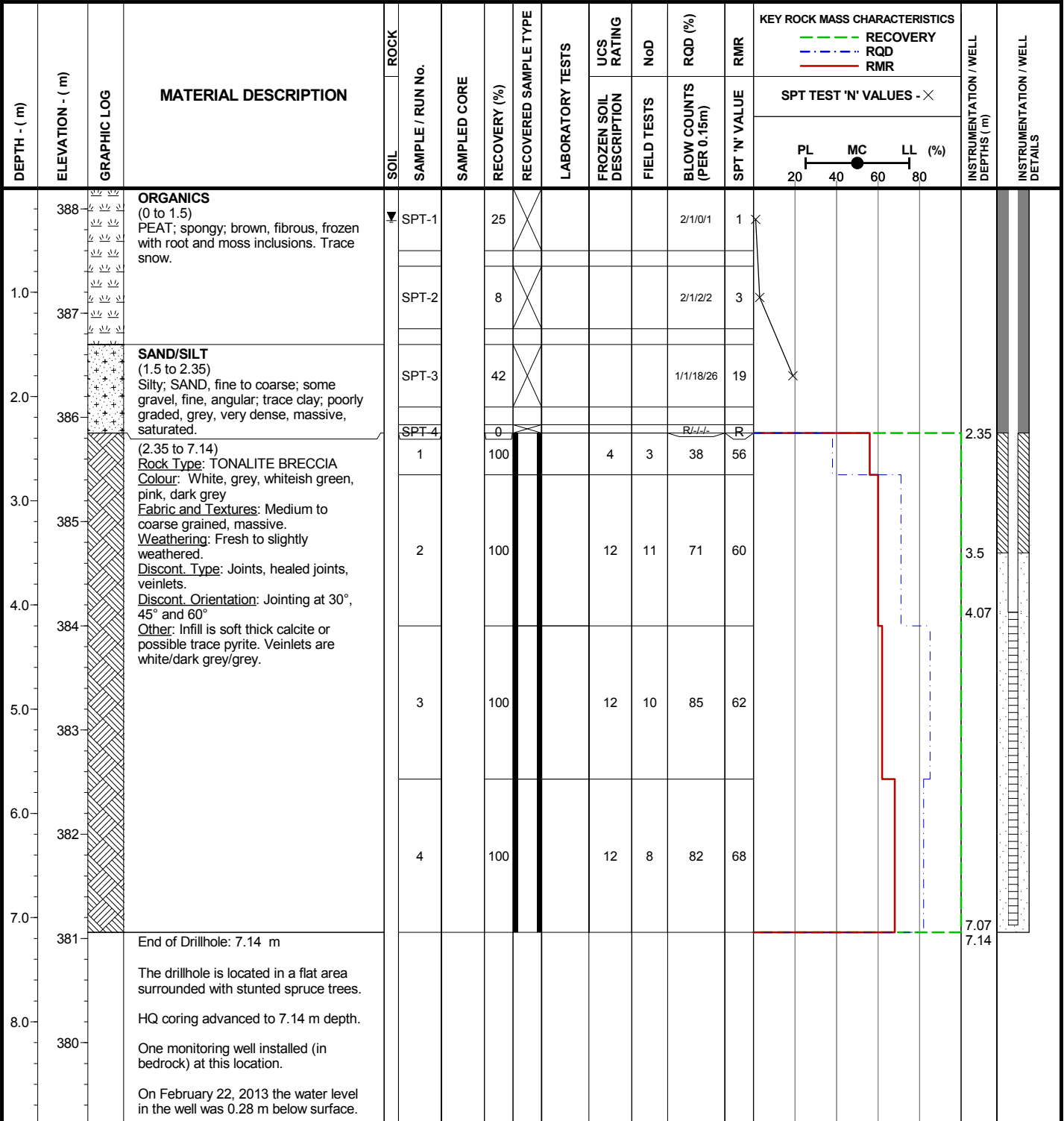
Coordinates: 5,267,618 N, 429,290 E

Elevation: 388 m

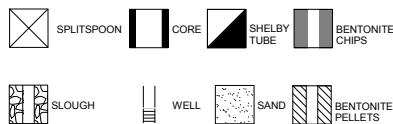
Logged by: RWT

Inclination: -90

Reviewed by: RSM



SYMBOLS:



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CÔTÉ GOLD PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/5 Ref. No. 1 Rev. 0

FIGURE A1.19

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Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-21

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 20 Mar 13

Location: Pit Overburden

Total Depth: 8.75 m

Date Completed: 21 Mar 13

Coordinates: 5,267,540 N, 429,424 E

Elevation: 387 m

Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
387			ORGANICS (0 to 1.5) PEAT; brown, spongy, fibrous, saturated with root inclusions.		SPT-1		33					0/0/0/0	0	X				
386			SILT/SAND (1.5 to 3.04) Sandy, fine; SILT: trace clay; low plasticity, grey, firm, massive, friable, saturated.		SPT-2		0					1/0/1/1	1	X				
385			SILT/SAND (1.5 to 3.04) Sandy, fine; SILT: trace clay; low plasticity, grey, firm, massive, friable, saturated.		SPT-3		42					1/0/13/20	13	X				
384			TILL (3.04 to 3.45) Sandy, fine to coarse; GRAVEL, fine to coarse, angular to subangular; trace silt; trace clay; well graded, grey/pink/white, very dense, massive, saturated.		SPT-4		42					16/24/28/27	52	X				
383			TILL (3.45 to 4.2) Rock Type: TONALITE Colour: Dark grey. Fabric and Textures: Massive, fine grained. Weathering: Slightly weathered. Discont. Type: Joints. Discont. Orientation: Jointing at 20° and 45° Other: Some whiteish gold mineralization on some joint surfaces, chlorite infill.		SPT-5		100					R/-/-	R					
382			TILL (4.2 to 8.75) Rock Type: TONALITE Colour: Dark grey, red. Fabric and Textures: Massive, fine to coarse grained. Weathering: moderately to highly weathered. Discont. Type: joints, veinlets. Discont. Orientation: Jointing at 0°, 45°, 60° and 75° Other: White veinlets, greenish white mineralization on joints.		1		100			4	8	20	42					
381			TILL (4.2 to 8.75) Rock Type: TONALITE Colour: Dark grey, red. Fabric and Textures: Massive, fine to coarse grained. Weathering: moderately to highly weathered. Discont. Type: joints, veinlets. Discont. Orientation: Jointing at 0°, 45°, 60° and 75° Other: White veinlets, greenish white mineralization on joints.		2		100			4		40	38					
380			TILL (4.2 to 8.75) Rock Type: TONALITE Colour: Dark grey, red. Fabric and Textures: Massive, fine to coarse grained. Weathering: moderately to highly weathered. Discont. Type: joints, veinlets. Discont. Orientation: Jointing at 0°, 45°, 60° and 75° Other: White veinlets, greenish white mineralization on joints.		3		100			4	19	54	54					
379			TILL (4.2 to 8.75) Rock Type: TONALITE Colour: Dark grey, red. Fabric and Textures: Massive, fine to coarse grained. Weathering: moderately to highly weathered. Discont. Type: joints, veinlets. Discont. Orientation: Jointing at 0°, 45°, 60° and 75° Other: White veinlets, greenish white mineralization on joints.		4		100			4		10	33					
378			End of Drillhole: 8.75 m The drillhole is located approximately 15 m east of a very small meandering stream in a flat area surrounded with spruce / alders and white birch. HQ coring advanced to 8.75 m depth.															

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SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.20

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-22

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 16 Mar 13

Location: Pit Overburden

Total Depth: 13.18 m

Date Completed: 16 Mar 13

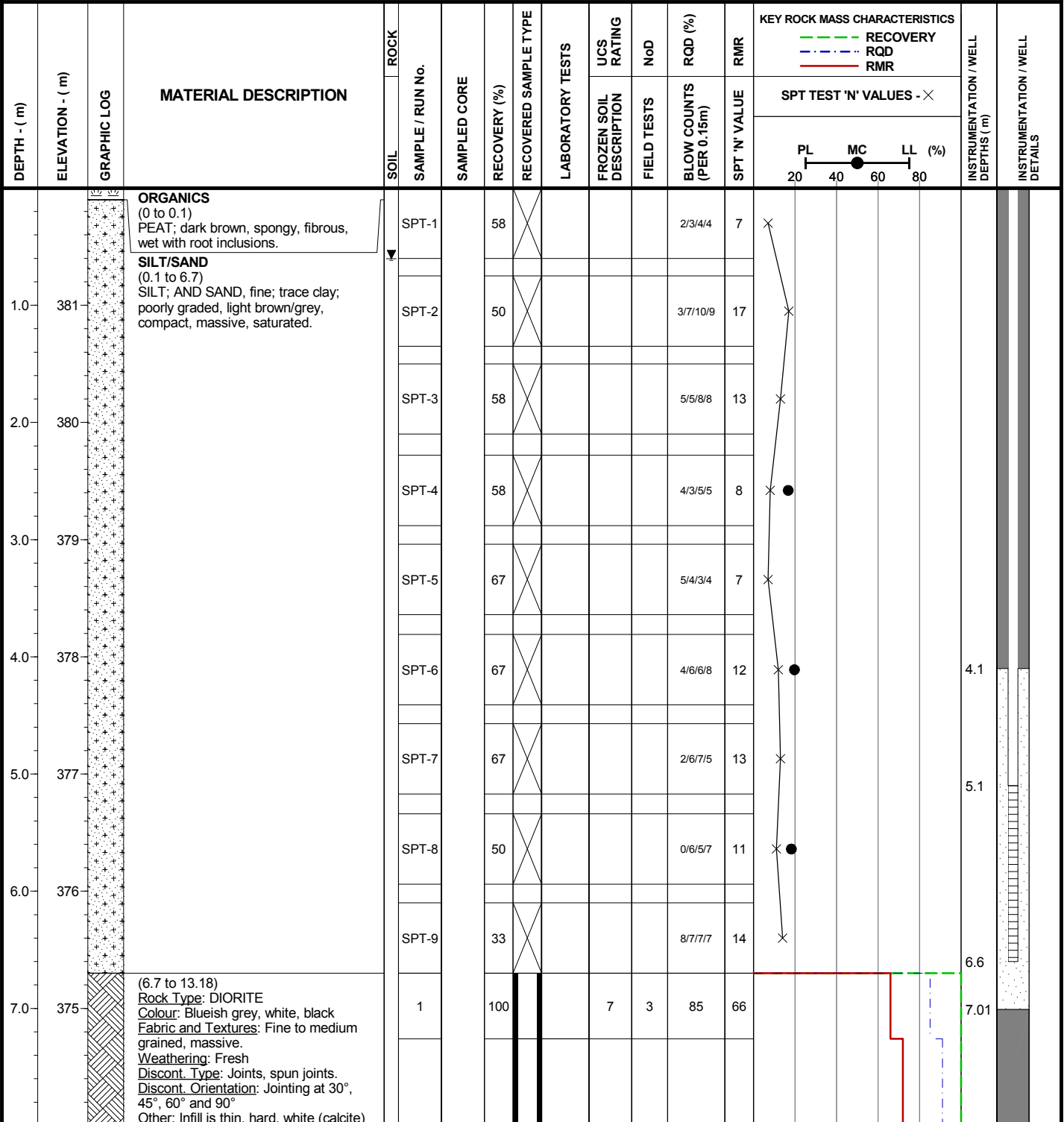
Coordinates: 5,267,656 N, 430,025 E

Elevation: 382 m

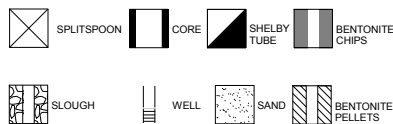
Logged by: RWT

Inclination: -90

Reviewed by: RSM



SYMBOLS:



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FIGURE A1.21

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Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-22

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 16 Mar 13

Location: Pit Overburden

Total Depth: 13.18 m

Date Completed: 16 Mar 13

Coordinates: 5,267,656 N, 430,025 E

Elevation: 382 m

Logged by: RWT









Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	FROZEN SOIL DESCRIPTION	FIELD TESTS		
			or grey clay or chlorite.		2		100			7	1	91	72					
9.0	373				3		100			7	0	100	79					
10.0	372				4		100			7	3	74	60					
11.0	371				5		100			7	4	100	69					
12.0	370																	
13.0	369		End of Drillhole: 13.18 m															
14.0	368		The drillhole is located in a relatively flat area approximately 100 m west of Three Duck Lake with mature birch / cedar and spruce trees. HQ coring advanced to 13.18 m depth. One monitoring well installed (in overburden) at this location. On February 18, 2013 the water level in the well was 0.575 m below surface.															
15.0	367																	

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SYMBOLS:

-  SPLITSPOON
-  CORE
-  SHELBY TUBE
-  BENTONITE CHIPS
-  SLOUGH
-  WELL
-  SAND
-  BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.21

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-23

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 15 Mar 13

Location: Pit Overburden

Total Depth: 16.36 m

Date Completed: 16 Mar 13

Coordinates: 5,265,659 N, 429,561 E

Elevation: 386 m

Logged by: TAM









Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	PL			MC
0.0	386		ORGANICS (0 to 3.1) SNOW; PEAT; dark brown, spongy, fibrous.																
1.0	385																		
2.0	384																		
3.0	383																		
3.5	382.5		SAND/SILT (3.1 to 6.08) SAND, fine; AND SILT; trace clay, poorly graded, grey, loose, massive, wet.																
4.0	382																		
5.0	381																		
6.0	380		TILL (6.08 to 10.36) SAND, fine to coarse; AND GRAVEL, fine to coarse, subangular; trace silt; trace clay; well graded, black/grey/white/pink, compact to dense, massive, moist.																
7.0	379																		
8.0	378																		
9.0	377																		
10.0	376																		

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SYMBOLS:

-  SPLITSPOON
-  CORE
-  SHELBY TUBE
-  BENTONITE CHIPS
-  SLOUGH
-  WELL
-  SAND
-  BENTONITE PELLETS

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FIGURE A1.22

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-PO-23

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 15 Mar 13

Location: Pit Overburden

Total Depth: 16.36 m

Date Completed: 16 Mar 13

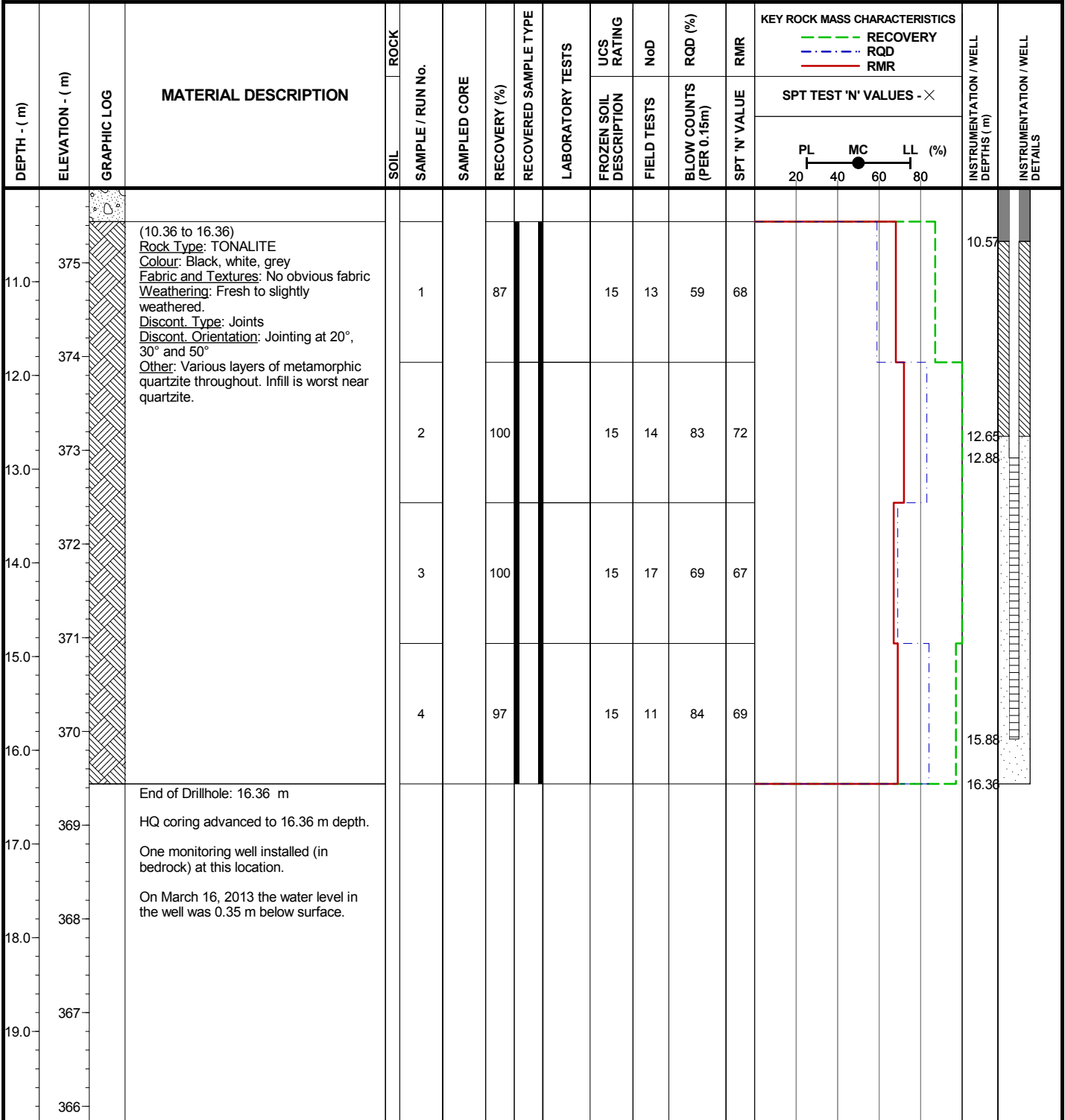
Coordinates: 5,265,659 N, 429,561 E

Elevation: 386 m

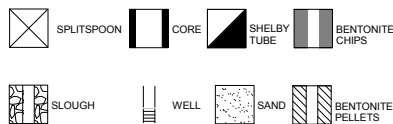
Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:



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FIGURE A1.22

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Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-RCP-01

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 15 Mar 13

Location: Runoff Collection Pond

Total Depth: 11.75 m

Date Completed: 15 Mar 13

Coordinates: 5,268,327 N, 430,333 E

Elevation: 382 m

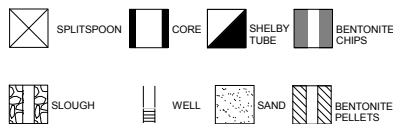
Logged by: RWT

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RQD			RMR
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
			SNOW/WATER/ICE (0 to 0.55) Ice thickness approximate.																
	381		WATER (0.55 to 1.82) Overburden begins at 1.82 m.																
1.0																			
	380																		
2.0			ORGANICS (1.82 to 6.4) PEAT; brown, spongy to plastic, fibrous, saturated. With root inclusions.			SPT-1	0	X				0/0/0/0	0	X					
	379																		
3.0																			
	378					SPT-2	83	X				0/0/0/0	0	X					
4.0																			
	377					SPT-3	83	X				0/0/0/0	0	X					
5.0																			
	376					SPT-4	83	X				0/0/0/0	0	X					
6.0																			
	375		ORGANIC SILT (6.4 to 9.15) ORGANIC SILT; brown, plastic, fibrous, saturated. With root inclusions.			SPT-5	0	X				0/0/0/0	0	X					
7.0																			
	374					SPT-6	0	X				0/0/0/0	0	X					
						SPT-7	50	X				0/0/0/0	0	X					

SYMBOLS:



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FIGURE A1.29

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Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-RCP-01

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: Acker Tri-Pod

Date Started: 15 Mar 13

Location: Runoff Collection Pond

Total Depth: 11.75 m

Date Completed: 15 Mar 13

Coordinates: 5,268,327 N, 430,333 E

Elevation: 382 m

Logged by: RWT

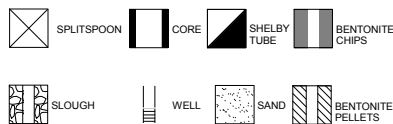
Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY		
373	9.0		ORGANIC SILT (6.4 to 9.15) ORGANIC SILT; brown, plastic, fibrous, saturated. With root inclusions.			SPT-8	50					0/0/0	0	X				
372	10.0		SILT/CLAY (9.15 to 9.75) SILT; AND CLAY; low plasticity, grey, soft, massive, saturated.			SPT-9	0					5/4/3/2	7	X				
371	11.0		SAND (9.75 to 10.67) SAND, coarse; trace gravel, fine, sub angular; poorly graded, pink/white/grey, loose, massive, saturated.			SPT-10	8					3/2/3/28	5	X				
370	12.0		SAND (10.67 to 11.75) SAND, fine to coarse; some silt; some gravel, fine, angular; well graded, grey, very dense, massive, saturated. Spoon severely bent during SPT test.			SPT-11	58					31/25/30/41	55	X				
370	12.0		End of Drillhole: 11.75 m			SPT-12	0					56/40/28/41	68	X				
369	13.0		The drillhole is located on an unnamed pond. Refusal due to suspected bedrock at 11.75 m.															

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SYMBOLS:



**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

**Knight Piésold
CONSULTING**

Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.29

Project: CÔTÉ GOLD PROJECT **Drillhole No.:** DH13-WD-01 **Page:** 1 of 1

Contractor: George Downing Estate Drilling **Drill Type:** CME 850 **Date Started:** 13 Mar 13

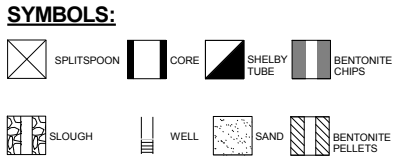
Location: Mine Rock Area **Total Depth:** 9.32 m **Date Completed:** 13 Mar 13

Coordinates: 5,263,918 N, 431,570 E **Elevation:** 388 m **Logged by:** TAM

Inclination: -90 **Reviewed by:** RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL SAMPLE / RUN No.	ROCK SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING		NoD	ROD (%)	RMR	KEY ROCK MASS CHARACTERISTICS	INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
										FROZEN SOIL DESCRIPTION	FIELD TESTS						
388			ORGANICS (0 to 3.19) PEAT; dark brown, fibrous, frozen to wet.	SPT-1			58	X					0/8/10/10	18	KEY ROCK MASS CHARACTERISTICS - - - RECOVERY - - - RQD - - - RMR SPT TEST 'N' VALUES - X PL MC LL (%) 20 40 60 80		
				SPT-2			55	X					12/3/2/2	5			
2.0				SPT-3			0	X					2/0/1/0	1			
				SPT-4			0	X					0/0/0/0	0			
386			SAND (3.19 to 5.5) SAND, fine to coarse; some silt; trace gravel, fine, subangular to subrounded; trace clay; well graded, grey/brown/pink/black, loose to compact, massive, moist to wet.	SPT-5			100	X					3/2/2/3	4			
				SPT-6			80	X					1/3/9/10	12			
4.0				SPT-7			83	X					4/5/5/5	10			
				SPT-8			30	X					24/22/28/R	50			
			(5.5 to 9.32) Rock Type: Tonalite Colour: Pink, grey, black, white. Fabric and Textures: Fine to medium grained. Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45° and 75° Other: Infill is thin, hard or not present.	1			93						65	70			
382				2			100							93	73		
				3			100							94	77		
			End of Drillhole: 9.32 m The drillhole location is flat with spruce and white birch trees. HQ coring advanced to 9.32 m depth.														
378																	

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IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

Knight Piesold
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Project No. NB101-497/5 Ref. No. 1 Rev. 0

FIGURE A1.30

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-02

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 10 Mar 13

Location: Mine Rock Area

Total Depth: 10.00 m

Date Completed: 11 Mar 13

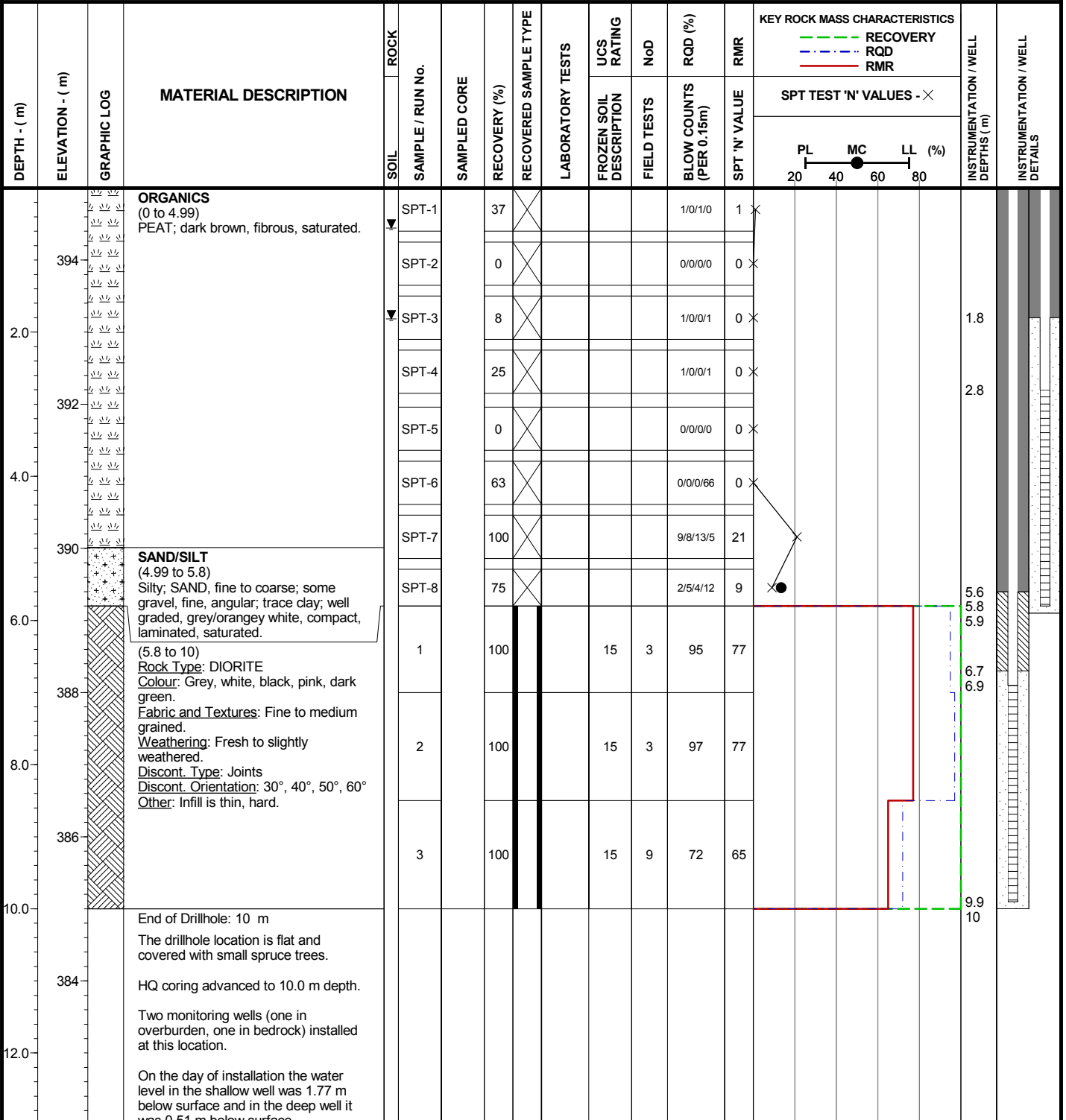
Coordinates: 5,263,339 N, 431,105 E

Elevation: 395 m

Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.31

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-03

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 14 Mar 13

Location: Mine Rock Area

Total Depth: 14.56 m

Date Completed: 14 Mar 13

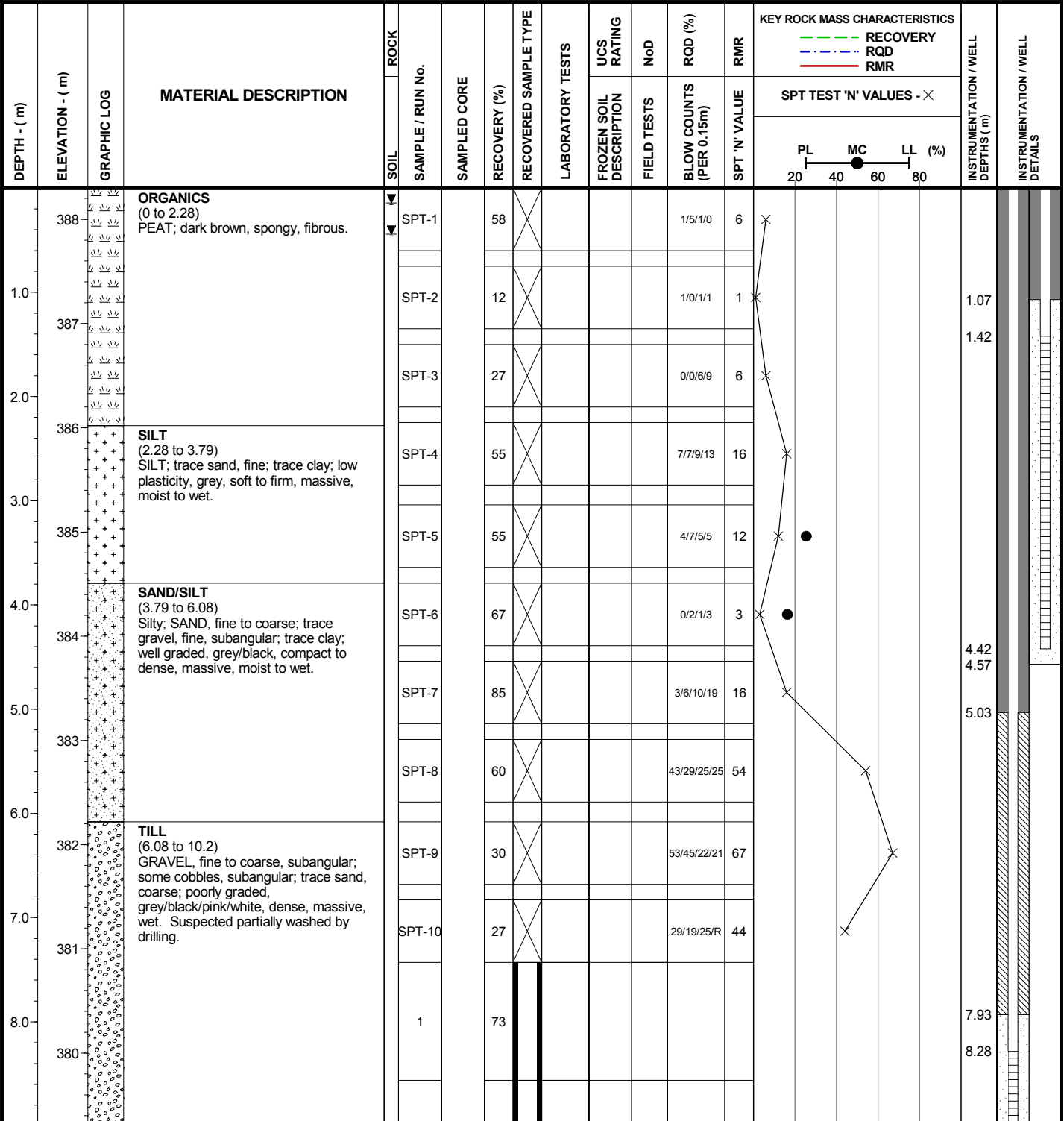
Coordinates: 5,263,828 N, 429,963 E

Elevation: 388 m

Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

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CONSULTING**

Project No. NB101-497/5 Ref. No. 1 Rev. 0

FIGURE A1.32

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-03

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 14 Mar 13

Location: Mine Rock Area

Total Depth: 14.56 m

Date Completed: 14 Mar 13

Coordinates: 5,263,828 N, 429,963 E

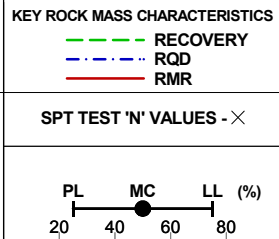
Elevation: 388 m

Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	FROZEN SOIL DESCRIPTION		
379	10.0		TILL (6.08 to 10.2) GRAVEL, fine to coarse, subangular; some cobbles, subangular; trace sand, coarse; poorly graded, grey/black/pink/white, dense, massive, wet. Suspected partially washed by drilling.		2		38											
378	11.0		(10.2 to 13.4) Rock Type: MAFIC DYKE Colour: Dark green, grey. Fabric and Textures: Fine to medium grained. Weathering: Slightly weathered. Discont. Type: Schistosity, joints. Discont. Orientation: Jointing at 35° Other: Infill is thin, hard.		3a		100											
377	11.0				3b		80		4	13	46	51						
376	12.0				4		100		2		65	51						
375	13.0		(13.4 to 14.56) Rock Type: MAFIC DYKE Colour: Dark grey, white, pink flecks. Fabric and Textures: Fine grained. Weathering: Fresh. Discont. Type: Joints Discont. Orientation: Jointing at 25° and 60° Other: Infill is thin, hard.		5		100		15	9	93	75						
374	14.0																	
373	15.0		End of Drillhole: 14.56 m															
372	16.0		The drillhole is located in an area with spruce/cedar/poplar/white birch trees. HQ coring advanced to 14.56 m depth. Two monitoring wells (both in overburden) installed at this location.															
371	17.0		On March 15, 2013 the water level in the shallow well was 0.41 m below surface and in the deep well was 0.11 m below surface.															



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/5 Ref. No. 1 Rev. 0

FIGURE A1.32

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-04

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 12 Mar 13

Location: Mine Rock Area

Total Depth: 11.63 m

Date Completed: 12 Mar 13

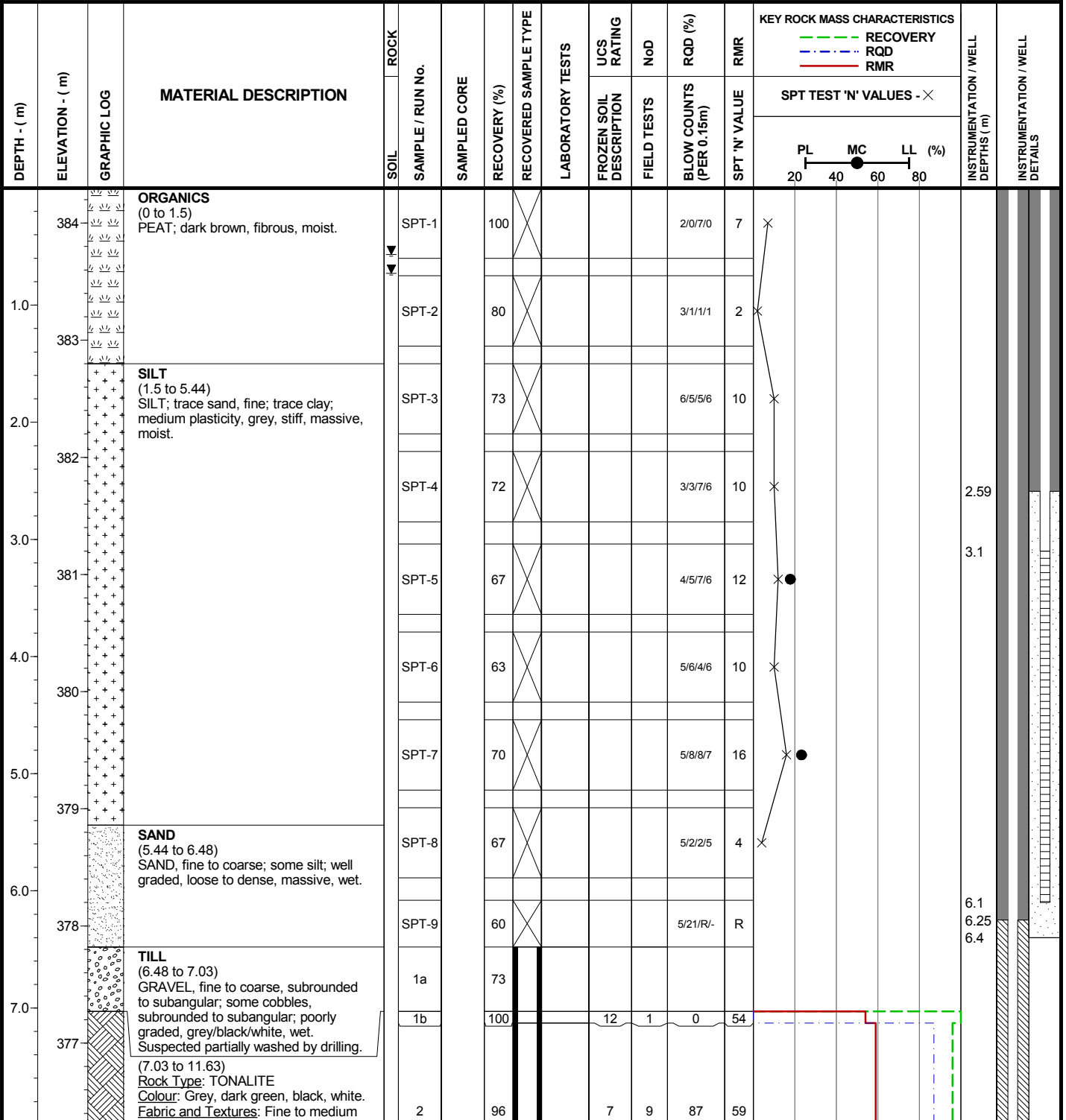
Coordinates: 5,264,946 N, 431,858 E

Elevation: 384 m

Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.33

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-04

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 12 Mar 13

Location: Mine Rock Area

Total Depth: 11.63 m

Date Completed: 12 Mar 13

Coordinates: 5,264,946 N, 431,858 E

Elevation: 384 m

Logged by: TAM

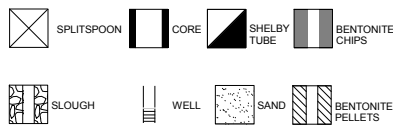
Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS		
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	PL			MC	LL (%)
376			grained. Weathering: Slightly weathered. Discont. Type: Joints, quartz veins. Discont. Orientation: Jointing at 30° and 70° Other: Infill is thin, hard.																	
9.0	375				3	97				15	9	90	67							
10.0	374				4	89				7	13	81	63							
11.0	373																			
			End of Drillhole: 11.63 m																	
12.0	372		The drillhole is located in an area of spruce/cedar/poplar/white birch trees. HQ coring advanced to 11.63 m depth. Two monitoring wells (one in overburden, one in bedrock) installed at this location. On March 12, 2013 the water level in the deep well was 0.54 m below surface. On March 13, 2013 the water level in the shallow well was 0.7 m below surface.																	
13.0	371																			
14.0	370																			
15.0	369																			

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.33

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-05

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 4 Mar 13

Location: Mine Rock Area

Total Depth: 10.06 m

Date Completed: 5 Mar 13

Coordinates: 5,264,056 N, 427,857 E

Elevation: 389 m

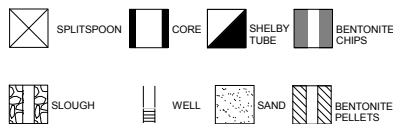
Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS	
				SOIL	SAMPLE / RUN No.									RECOVERY	RECOVERY	RECOVERY			
														SPT TEST 'N' VALUES - X					
														PL	MC	LL (%)			
														20	40	60	80		
	389		ORGANICS (0 to 3.79) PEAT; brown, spongy, fibrous, wet.			SPT-1	62	X											
1.0						SPT-2	25	X											
	388																		
2.0						SPT-3	10	X											
	387																		
3.0						SPT-4	10	X											
	386																		
4.0						SPT-5	0	X											
	385		SILT (3.79 to 4.54) SILT; trace sand, fine; trace clay; medium plasticity, grey, very soft, massive, saturated.			SPT-6	37	X											
5.0																			
	384		SAND (4.54 to 6.14) SAND, fine to coarse; some silt; trace clay; well graded, dark grey/pink/black/white, compact, stratified, saturated. Stratified layers of sand and silt at the top of the interval.			SPT-7	83	X											
						SPT-8	83	X											

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.34

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-05

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 4 Mar 13

Location: Mine Rock Area

Total Depth: 10.06 m

Date Completed: 5 Mar 13

Coordinates: 5,264,056 N, 427,857 E

Elevation: 389 m

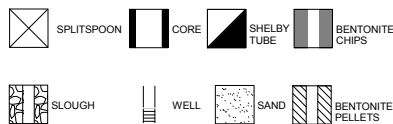
Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.								SPT TEST 'N' VALUES - X	RECOVERY	RQD		
													PL MC LL (%) 20 40 60 80				
	383		(6.14 to 10.06) Rock Type: DIORITE Colour: White, pink, red, dark green, black, grey overall. Fabric and Textures: Fine to medium grained. Weathering: Fresh to slightly weathered. Discont. Type: Joints, veins. Discont. Orientation: Jointing at 30° and 60° Other: Infill is thin, soft or thin, hard, dark green/red.														
	7.0																
	382																
	8.0																
	381																
	9.0																
	380																
	10.0																
	379		End of Drillhole: 10.06 m The drillhole is located in a flat area surrounded mainly with spruce trees. HQ coring advanced to 10.06 m depth.														
	11.0																
	378																

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.34

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, DRILLHOLE LOG, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-06

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 17 Mar 13

Location: Mine Rock Area

Total Depth: 19.85 m

Date Completed: 17 Mar 13

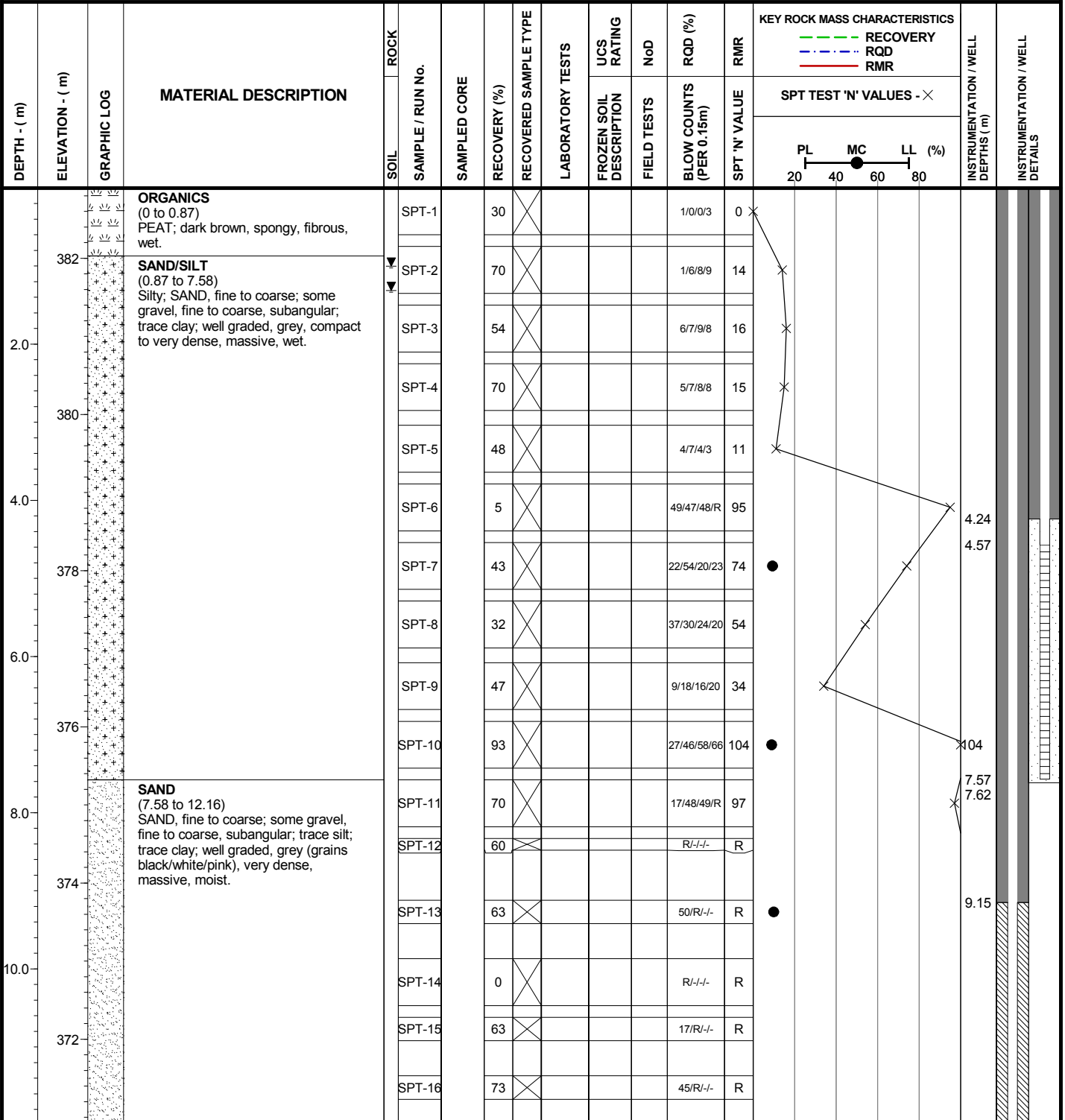
Coordinates: 5,268,103 N, 431,795 E

Elevation: 383 m









Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:

-  SPLITSPOON
-  CORE
-  SHELBY TUBE
-  BENTONITE CHIPS
-  SLOUGH
-  WELL
-  SAND
-  BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.35

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-06

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 17 Mar 13

Location: Mine Rock Area

Total Depth: 19.85 m

Date Completed: 17 Mar 13

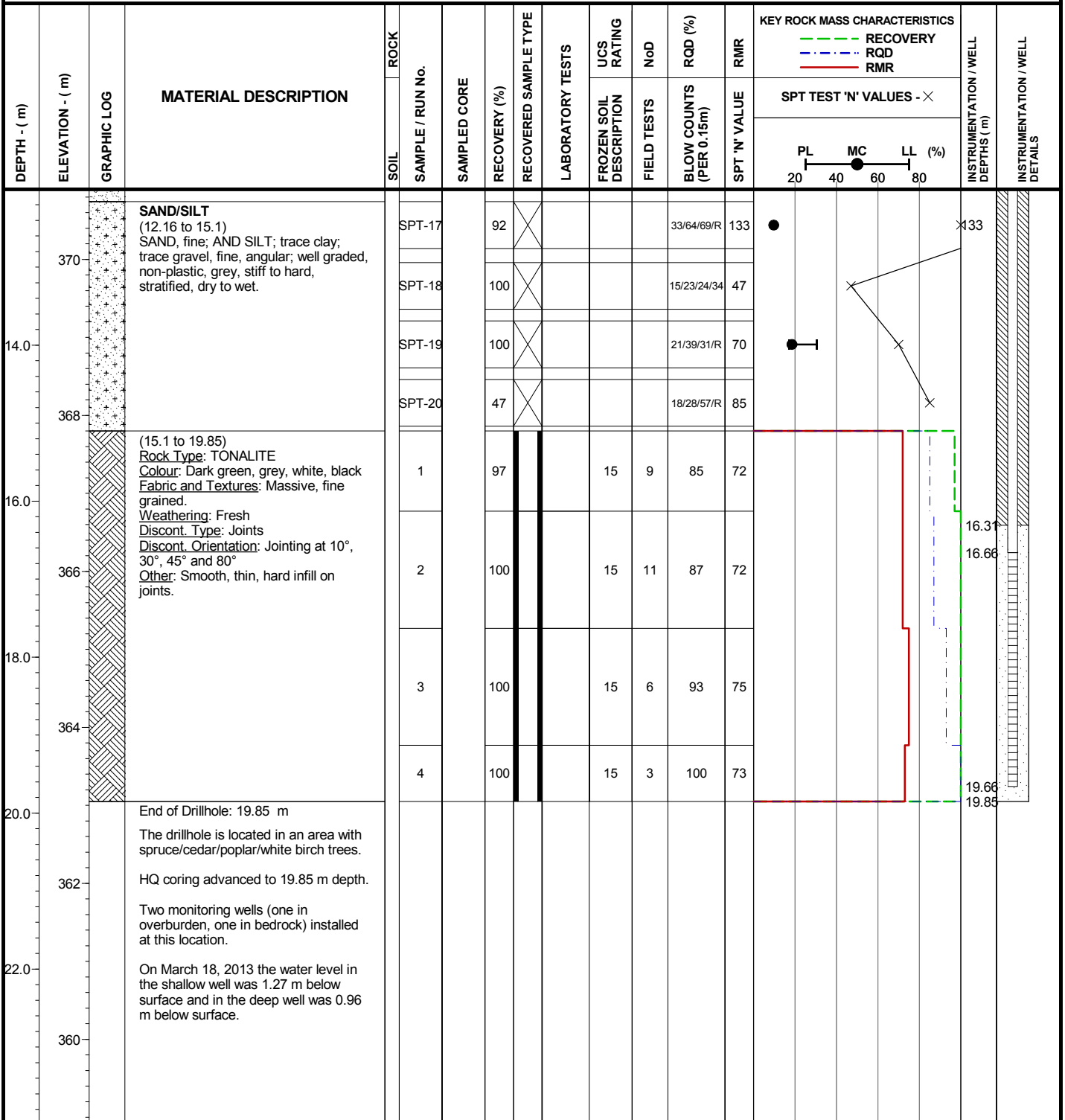
Coordinates: 5,268,103 N, 431,795 E

Elevation: 383 m

Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:

- [Symbol] SPLITSPOON
- [Symbol] CORE
- [Symbol] SHELBY TUBE
- [Symbol] BENTONITE CHIPS
- [Symbol] SLOUGH
- [Symbol] WELL
- [Symbol] SAND
- [Symbol] BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.35

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-07

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 22 Mar 13

Location: Mine Rock Area

Total Depth: 15.70 m

Date Completed: 22 Mar 13

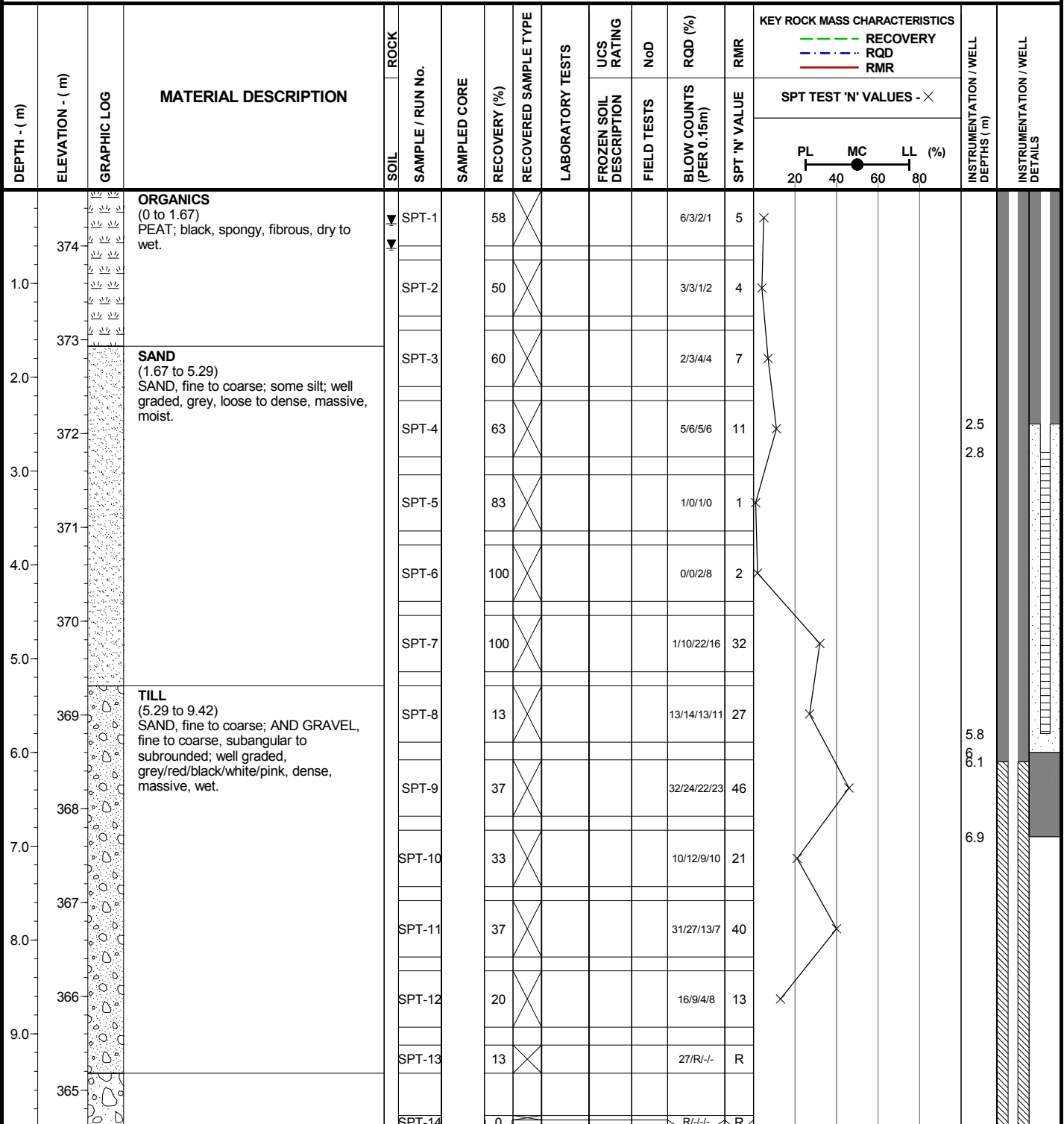
Coordinates: 5,268,125 N, 433,333 E

Elevation: 375 m

Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.36

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-07

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 22 Mar 13

Location: Mine Rock Area

Total Depth: 15.70 m

Date Completed: 22 Mar 13

Coordinates: 5,268,125 N, 433,333 E

Elevation: 375 m

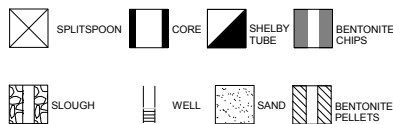
Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	PL		
364	11.0		TILL (9.42 to 11.2) COBBLES, subangular to subrounded; AND GRAVEL, fine to coarse, subangular; well graded, black/white/grey/red/pink, dense, massive, wet. Suspected partially washed by drilling.		2		37											
363	12.0		(11.2 to 15.7) Rock Type: TONALITE AND MAFIC DYKE Colour: Dark green, grey Fabric and Textures: Massive, fine to medium grained Weathering: Fresh to slightly weathered. Discont. Type: Joints Discont. Orientation: Jointing at 5° and 60° Other: Infill is thick and soft in possible fault zone at 13.5 m, thin and hard elsewhere.		3		100			12	25	45	57				12.3	
362	13.0				4		100			12	21	68	60				12.5	
361	14.0				5		100			12	25	37	57				15.5	
360	15.0																15.7	
359	16.0		End of Drillhole: 15.7 m															
358	17.0		The drillhole is located in an area with spruce and cedar trees at the toe of a steep slope. HQ coring advanced to 15.7 m depth. Two monitoring wells (one in overburden, one in bedrock) installed at this location.															
357	18.0		On March 22, 2013 the water level in the shallow well was 0.59 m below surface and in the deep well was 0.33 m below surface.															
356	19.0		The bedrock at the deep well location was encountered at 11.2 m depth. At the shallow well location the bedrock was encountered at 5.97 m depth. The bedrock at the shallow well location is 5.23 m higher than at the deep well location.															
355																		

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.36

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB\GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-08

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 25 Mar 13

Location: Mine Rock Area

Total Depth: 11.59 m

Date Completed: 25 Mar 13

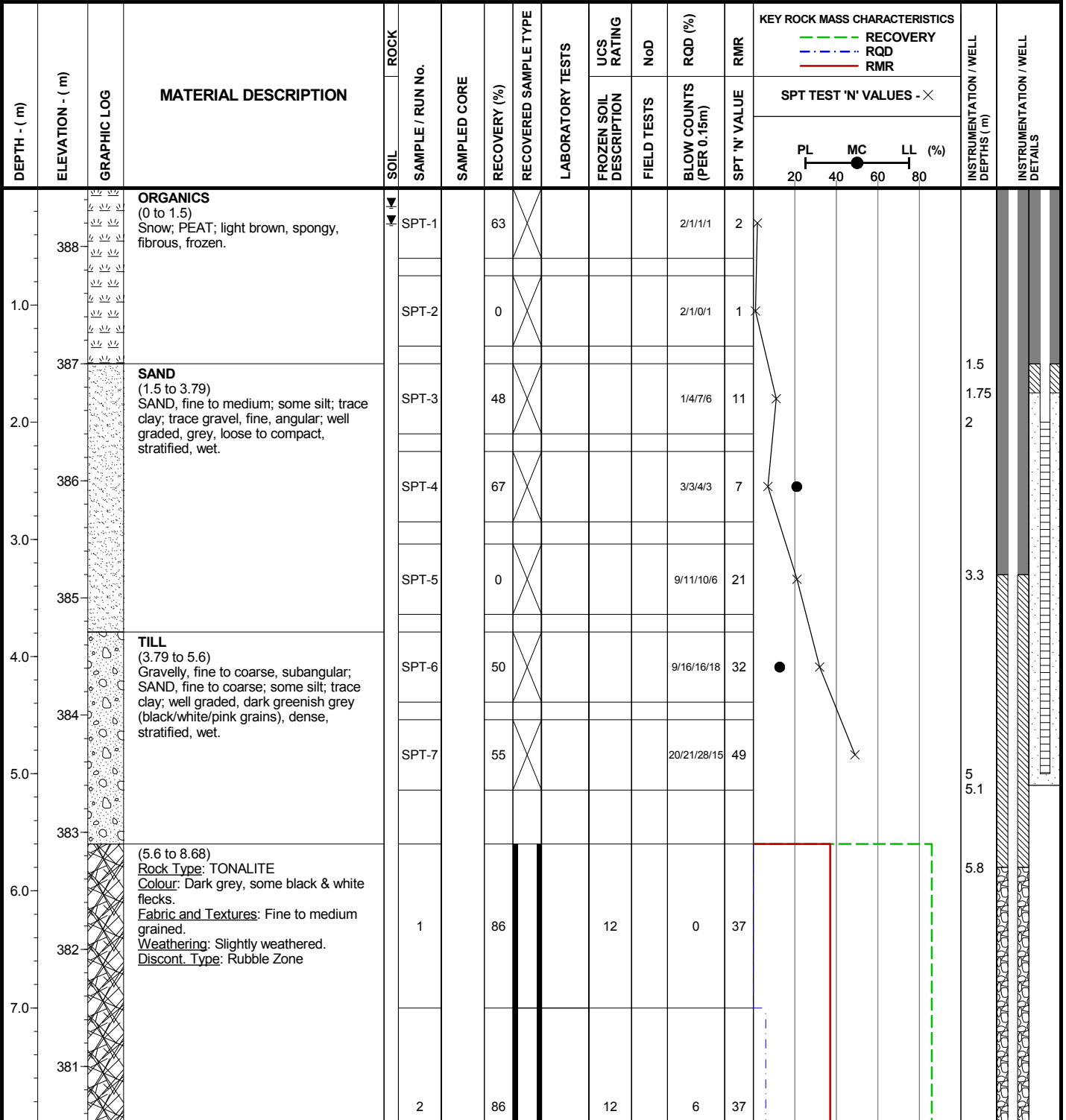
Coordinates: 5,264,127 N, 433,764 E

Elevation: 389 m

Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/5 Ref. No. 1 Rev. 0

FIGURE A1.37

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-08

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 25 Mar 13

Location: Mine Rock Area

Total Depth: 11.59 m

Date Completed: 25 Mar 13

Coordinates: 5,264,127 N, 433,764 E

Elevation: 389 m

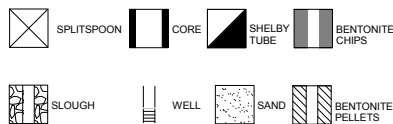
Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS		
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	PL			MC	LL (%)
380																				
9.0			(8.68 to 11.59) Rock Type: DIORITE Colour: Dark grey, some black & white flecks. Fabric and Textures: Fine to medium grained. Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 30°, 45° and 75°			3	100			15		78	68							
379																				
10.0																				
378																				
11.0																				
377			End of Drillhole: 11.59 m																	
12.0			The drillhole is located on the edge of a clearing. HQ coring advanced to 11.59 m depth.																	
376			Two monitoring wells (one in overburden, one in bedrock) installed at this location.																	
13.0			On March 26, 2013 the water level in the shallow well was 0.28 m below surface and in the deep well was 0.13 m below surface.																	
375																				
14.0																				
374																				
15.0																				
373																				

SYMBOLS:



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Knight Piésold
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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.37

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG, COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-09

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 26 Mar 13

Location: Mine Rock Area

Total Depth: 5.64 m

Date Completed: 26 Mar 13

Coordinates: 5,264,351 N, 433,295 E

Elevation: 388 m

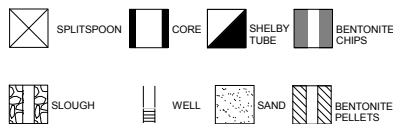
Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	SPT TEST 'N' VALUES - X	RECOVERY		
														PL MC LL (%) 20 40 60 80				
			ORGANICS (0 to 0.75) PEAT; brown, spongy, fibrous, frozen.			SPT-1	53					1/0/0/3	0 X					
1.0	387		BOULDERS (0.75 to 1.14) BOULDERS (1.14 to 5.64) Rock Type: DIORITE Colour: Black, white Fabric and Textures: Fine to coarse grained. Weathering: Fresh Discont. Type: Joints Discont. Orientation: Jointing at 15°, 45° and 75° Other: Infill is thin, hard and green.			1	100											
2.0	386					2	88		15	5	76	74						
3.0	385					3	92		15	7	84	70						
4.0	384					4	100		15	11	84	70						
5.0	383																	
6.0	382		End of Drillhole: 5.64 m HQ coring advanced to 5.64 m depth.															
7.0	381																	
8.0	380																	
9.0	379																	
	378																	

SYMBOLS:



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CÔTÉ GOLD PROJECT

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.38

I:\110100497\05\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
 I:\110100497\05\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-10

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 24 Mar 13

Location: Mine Rock Area

Total Depth: 9.48 m

Date Completed: 24 Mar 13

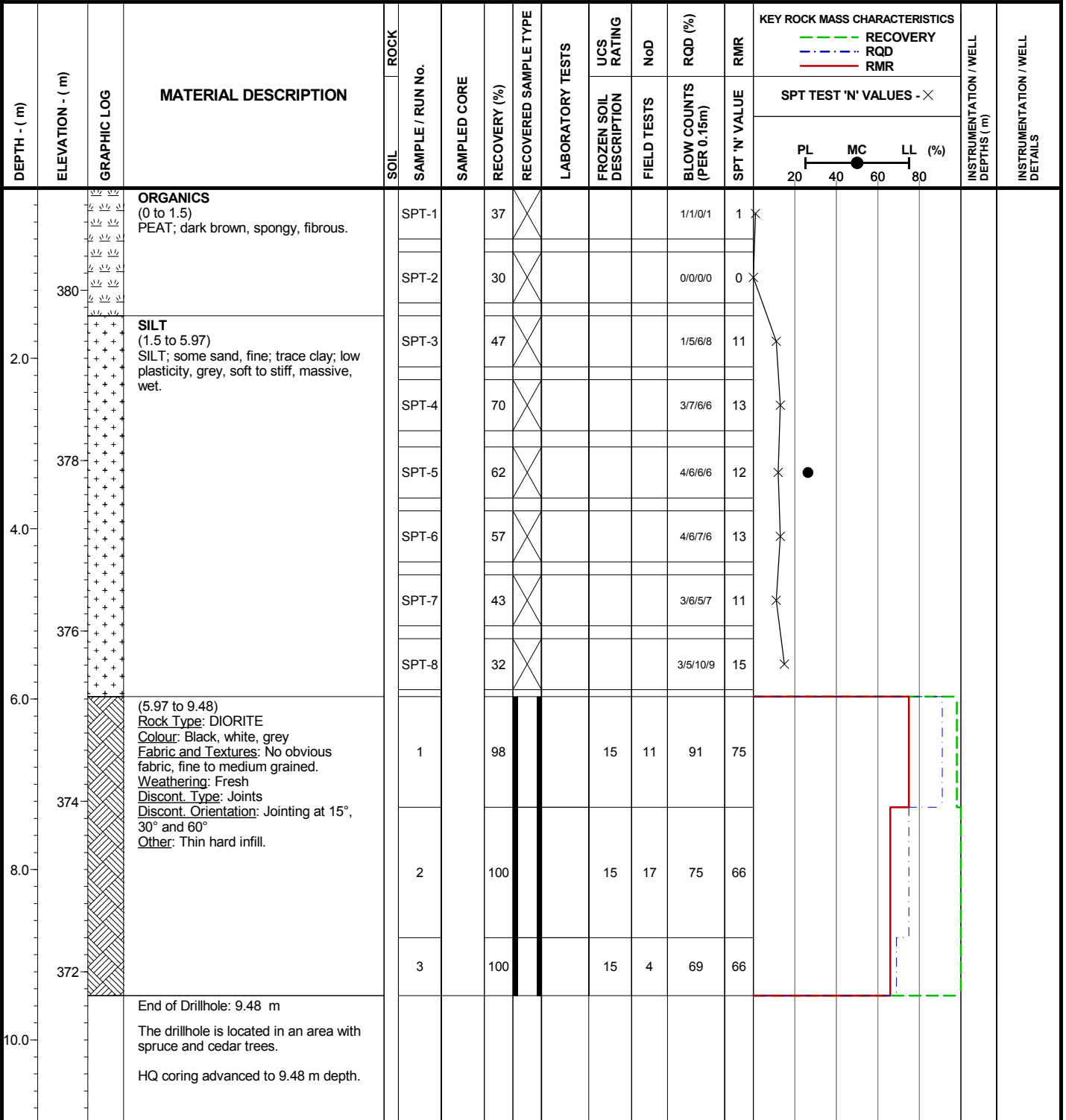
Coordinates: 5,264,606 N, 432,928 E

Elevation: 381 m

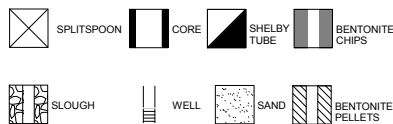
Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.39

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-11

Page: 1 of 1

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 27 Mar 13

Location: Mine Rock Area

Total Depth: 5.64 m

Date Completed: 27 Mar 13

Coordinates: 5,264,912 N, 432,633 E

Elevation: 381 m

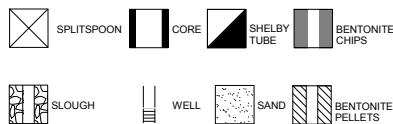
Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL	ROCK	SAMPLE / RUN No.	SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
															PL	MC	LL (%)		
	381		ORGANICS (0 to 0.2) PEAT; brown, spongy, amorphous, frozen.			SPT-1		67	X				3/4/6/6	10	X			0.3	
1.0	380		SAND/SILT (0.2 to 0.6) SAND, fine, AND SILT; poorly graded, light brown, compact, massive, frozen.			1		100			15	9	21	52					
2.0	379		(0.6 to 5.64) Rock Type: DIORITE Colour: Grey, black, white Fabric and Textures: medium to coarse grained Weathering: slightly weathered to fresh Discont. Type: joints Discont. Orientation: Jointing at 20°, 45°, 60° and 70° Other: Infill is thin, hard, dark green or dark red.			2		100			15	20	57	65				1.93	
3.0	378					3		100			15	19	45	60				2.59	
4.0	377					4		100			15	16	69	61				5.59	
5.0	376																	5.64	
6.0	375		End of Drillhole: 5.64 m The drillhole is located in an area with mature spruce and cedar trees. HQ coring advanced to 5.64 m depth. One monitoring well installed in bedrock at this location. On March 27, 2013 the water level in the well was 0.54 m below surface.																

SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.40

I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05\A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-12

Page: 1 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 23 Mar 13

Location: Mine Rock Area

Total Depth: 19.30 m

Date Completed: 23 Mar 13

Coordinates: 5,265,763 N, 433,076 E

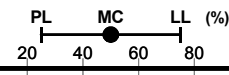
Elevation: 391 m

Logged by: TAM

Inclination: -90

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	ROCK		SAMPLED CORE	RECOVERY (%)	RECOVERED SAMPLE TYPE	LABORATORY TESTS	UCS RATING	NoD	RQD (%)	RMR	KEY ROCK MASS CHARACTERISTICS			INSTRUMENTATION / WELL DEPTHS (m)	INSTRUMENTATION / WELL DETAILS
				SOIL	SAMPLE / RUN No.									RECOVERY (%)	RECOVERED SAMPLE TYPE	RECOVERY		
			ORGANICS (0 to 9.6) PEAT; dark brown, spongy, fibrous, saturated.															
	390					SPT-1	0	X				0/0/0/0	0	X				
						SPT-2	17	X				1/5/1/0	6	X				
2.0						SPT-3	30	X				1/0/1/1	1	X				
						SPT-4	15	X				0/0/0/1	0	X				
	388					SPT-5	13	X				0/0/0/0	0	X				
4.0						SPT-6	50	X				0/0/0/0	0	X				
						SPT-7	12	X				0/0/0/0	0	X				
	386					SPT-8	0	X				0/0/0/0	0	X				
6.0						SPT-9	0	X				0/0/0/0	0	X				
	384																	
8.0																		
	382					SPT-10	100	X				1/1/0/1	1	X				9.15
																		9.45
10.0			SAND/SILT (9.6 to 13.4) Silty; SAND, fine; poorly graded, light grey, very loose, massive, stratified, saturated.			SPT-11	100	X				0/0/0/0	0	X				9.8
						SPT-12	100	X				0/0/0/0	0	X				



SYMBOLS:

- SPLITSPOON
- CORE
- SHELBY TUBE
- BENTONITE CHIPS
- SLOUGH
- WELL
- SAND
- BENTONITE PELLETS

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.41

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13

Project: CÔTÉ GOLD PROJECT

Drillhole No.: DH13-WD-12

Page: 2 of 2

Contractor: George Downing Estate Drilling

Drill Type: CME 850

Date Started: 23 Mar 13

Location: Mine Rock Area

Total Depth: 19.30 m

Date Completed: 23 Mar 13

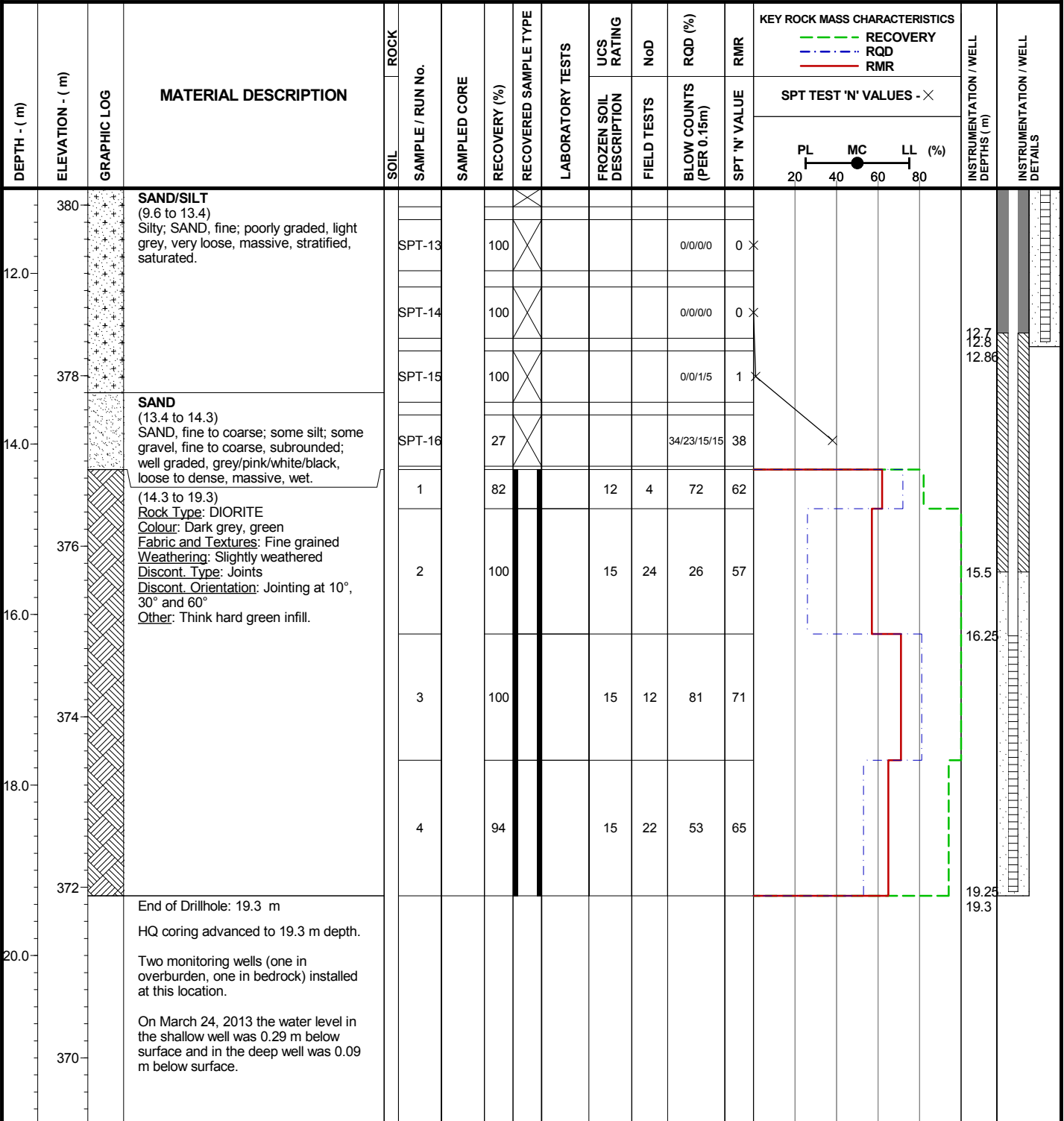
Coordinates: 5,265,763 N, 433,076 E

Elevation: 391 m

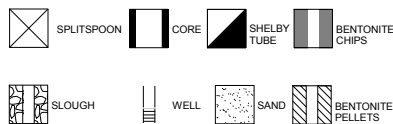
Logged by: TAM

Inclination: -90

Reviewed by: RSM



SYMBOLS:



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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A1.41

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - DRILLHOLES\20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, DRILLHOLE LOG_COTE LAKE PROJECT, KP DATA TEMPLATE.GDT, 24-Jul-13



APPENDIX E

Test Pit Completion Details

Test Pit ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾⁽³⁾		Ground Surface Elevation (masl) ⁽²⁾⁽³⁾⁽⁴⁾	Test Pit Depth (mbgs) ⁽⁵⁾	Depth to Bedrock (mbgs) ⁽⁵⁾	Bedrock Surface Elevation (masl) ⁽⁴⁾⁽⁶⁾	Reason for Stoppage
		Eastings	Northing					
TP12-BP-01	2012 SSI (KP)	427332	5267923	384.6	3.0	3.0	381.6	Bedrock
TP12-BP-02	2012 SSI (KP)	428876	5276412	391.1	2.0	2.0	389.1	Bedrock
TP12-BP-03	2012 SSI (KP)	429113	5275672	385.4	2.4	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-BP-04	2012 SSI (KP)	428686	5275765	395.4	2.0	2.0	393.4	Bedrock
TP12-BP-05	2012 SSI (KP)	429102	5275726	385.3	6.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Excavator Limit
TP12-BP-06	2012 SSI (KP)	428708	5275768	395.6	2.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-BP-07	2012 SSI (KP)	428287	5274210	386.7	5.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-BP-08	2012 SSI (KP)	430270	5274855	383.0	2.6	2.6	380.4	Bedrock
TP12-BP-09	2012 SSI (KP)	430755	5275016	392.6	4.0	4.0	388.6	Bedrock
TP12-BP-11	2012 SSI (KP)	430811	5273271	387.7	2.0	2.0	385.7	Bedrock
TP12-BP-12	2012 SSI (KP)	430912	5272991	394.4	1.9	1.9	392.5	Bedrock
TP12-BP-13	2012 SSI (KP)	430834	5272736	385.1	3.7	3.7	381.4	Bedrock
TP12-BP-14	2012 SSI (KP)	430768	5272366	382.3	3.0	3.0	379.3	Bedrock
TP12-BP-15	2012 SSI (KP)	430381	5271849	381.0	4.3	4.3	376.7	Suspect Bedrock
TP12-BP-16	2012 SSI (KP)	429955	5271494	382.1	5.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-BP-17	2012 SSI (KP)	430509	5271364	383.0	7.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Excavator Limit
TP12-BP-18	2012 SSI (KP)	430889	5271119	382.1	4.0	4.0	378.1	Bedrock
TP12-BP-19	2012 SSI (KP)	429215	5271766	384.4	2.0	2.0	382.4	Bedrock
TP12-BP-20	2012 SSI (KP)	429013	5271714	384.1	4.0	4.0	380.1	Bedrock
TP12-BP-21	2012 SSI (KP)	429335	5272181	374.8	4.0	4.0	370.8	Bedrock
TP12-BP-23	2012 SSI (KP)	428185	5274205	386.6	6.3	6.3	380.3	Bedrock
TP12-PO-01	2012 SSI (KP)	429276	5267002	387.8	0.2	0.2	387.6	Bedrock
TP12-PO-02	2012 SSI (KP)	429436	5267357	398.8	1.2	1.2	397.6	Bedrock
TP12-PO-03	2012 SSI (KP)	429489	5267414	390.2	6.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-PO-04	2012 SSI (KP)	429680	5267438	392.1	0.9	0.9	391.2	Bedrock
TP12-PO-05	2012 SSI (KP)	429750	5267439	382.3	7.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Excavator Limit
TP12-PO-06	2012 SSI (KP)	429873	5267391	381.7	5.0	5.0	376.7	Bedrock
TP12-PO-07	2012 SSI (KP)	430322	5266904	382.0	3.3	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-PO-08	2012 SSI (KP)	430198	5266656	383.1	5.5	5.5	377.6	Bedrock
TP12-PO-09	2012 SSI (KP)	429812	5266143	386.7	6.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-PO-10	2012 SSI (KP)	429472	5266058	385.9	4.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Excessive Water
TP12-PO-11	2012 SSI (KP)	428900	5266435	390.0	2.8	2.8	387.3	Suspect Bedrock
TP12-PO-12	2012 SSI (KP)	429056	5266634	392.2	0.1	0.1	392.1	Bedrock
TP12-PO-13	2012 SSI (KP)	430279	5266689	389.1	7.2	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Excavator Limit
TP12-PO-14	2012 SSI (KP)	430364	5266790	387.6	7.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Excavator Limit
TP12-PO-15	2012 SSI (KP)	429233	5267119	385.3	1.8	1.8	383.5	Suspect Bedrock
TP12-PO-16	2012 SSI (KP)	429333	5267230	396.4	0.6	0.6	395.8	Bedrock
TP12-PO-17	2012 SSI (KP)	429364	5267309	398.2	0.3	0.3	397.9	Bedrock
TP12-PO-18	2012 SSI (KP)	429159	5266778	389.9	1.0	1.0	388.9	Bedrock
TP12-PO-19	2012 SSI (KP)	428984	5266264	387.4	4.0	4.0	383.4	Suspect Bedrock
TP12-PO-20	2012 SSI (KP)	429044	5266193	389.0	3.2	3.2	385.8	Bedrock
TP12-PO-21	2012 SSI (KP)	429125	5266004	388.7	4.3	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-PO-22	2012 SSI (KP)	429258	5266009	388.6	4.0	4.0	384.6	Boulders
TP12-PO-24	2012 SSI (KP)	429751	5266046	390.6	1.2	1.2	389.4	Bedrock
TP12-PO-25	2012 SSI (KP)	429908	5266224	388.5	6.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-PO-26	2012 SSI (KP)	429530	5267436	394.5	1.0	1.0	393.5	Bedrock
TP12-PO-27	2012 SSI (KP)	429404	5267504	387.6	3.7	3.7	383.9	Bedrock
TP12-PO-28	2012 SSI (KP)	430178	5267412	381.6	2.3	2.3	379.3	Bedrock
TP12-PO-29	2012 SSI (KP)	429145	5267199	386.0	5.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-PO-30	2012 SSI (KP)	428862	5266442	390.6	4.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Excessive Water
TP12-PO-31	2012 SSI (KP)	428879	5266399	391.9	4.0	4.0	387.9	Bedrock
TP12-PO-32	2012 SSI (KP)	429491	5265904	385.9	4.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Flowing Sands
TP12-PO-34	2012 SSI (KP)	429630	5265955	386.0	5.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-PO-35	2012 SSI (KP)	429917	5266319	382.4	3.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Flowing Sands
TP12-PO-36	2012 SSI (KP)	429153	5265860	391.8	1.7	1.7	390.1	Bedrock
TP12-PO-37	2012 SSI (KP)	429308	5265860	387.5	4.6	4.6	382.9	Bedrock
TP12-PO-38	2012 SSI (KP)	429384	5265867	385.9	4.0	4.0	381.9	Bedrock
TP12-PO-39	2012 SSI (KP)	429357	5265718	393.4	0.9	0.9	392.5	Bedrock
TP12-PO-40	2012 SSI (KP)	429091	5266080	393.9	1.0	1.0	392.9	Bedrock

Notes:

- (1) Test pits completed by Knight Piésold during 2012 Summer Site Investigation denoted as "2012 SSI (KP)". Test pits completed by Golder during 2012 Groundwater Seepage Investigation denoted as "2012 GSI (Golder)". Test pits completed by Knight Piésold during 2013 Winter Site Investigation denoted as "2013 WSI (KP)".
- (2) UTM coordinates and ground surface elevations in normal font were provided by a professional surveyor (L. Labelle Surveys)
- (3) UTM coordinates and elevations in **bold** font were not surveyed; coordinates were obtained using a handheld GPS and elevations were estimated from available topographic contour information and are approximate
- (4) "masl" refers to metres above sea level
- (5) "mbgs" refers to metres below ground surface
- (6) Elevations in **bold** font represent locations where the ground surface elevation was not surveyed, therefore bedrock surface elevations were estimated from available topographic contour information and are approximate
- (7) Bedrock not encountered

Test Pit ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾⁽³⁾		Ground Surface Elevation (masl) ⁽²⁾⁽³⁾⁽⁴⁾	Test Pit Depth (mbgs) ⁽⁵⁾	Depth to Bedrock (mbgs) ⁽⁵⁾	Bedrock Surface Elevation (masl) ⁽⁴⁾⁽⁶⁾	Reason for Stoppage
		Easting	Northing					
TP12-PS-01	2012 SSI (KP)	429178	5267796	392.3	3.0	3.0	389.3	Bedrock
TP12-PS-02	2012 SSI (KP)	429243	5267808	391.6	5.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Excavator Limit
TP12-PS-03	2012 SSI (KP)	429326	5267920	392.9	4.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-PS-04	2012 SSI (KP)	429390	5268101	389.5	4.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-PS-05	2012 SSI (KP)	429194	5267994	398.2	2.1	2.1	396.1	Bedrock
TP12-PS-06	2012 SSI (KP)	428984	5267941	404.1	2.5	2.5	401.6	Bedrock
TP12-PS-07	2012 SSI (KP)	429039	5268133	401.2	1.5	1.5	399.7	Bedrock
TP12-PS-08	2012 SSI (KP)	428896	5268182	400.9	1.3	1.3	399.6	Bedrock
TP12-PS-09	2012 SSI (KP)	429187	5268123	401.0	1.2	1.2	399.8	Bedrock
TP12-PS-10	2012 SSI (KP)	429308	5268037	395.3	1.2	1.2	394.1	Bedrock
TP12-PS-11	2012 SSI (KP)	428980	5267867	406.2	0.1	0.1	406.1	Bedrock
TP12-PS-12	2012 SSI (KP)	428904	5268058	404.1	1.5	1.5	402.6	Bedrock
TP12-PS-13	2012 SSI (KP)	428926	5267721	393.2	5.0	5.0	388.2	Bedrock
TP12-PS-14	2012 SSI (KP)	429263	5268170	397.8	1.2	1.2	396.6	Bedrock
TP12-PS-15	2012 SSI (KP)	429090	5267896	403.7	0.2	0.2	403.5	Bedrock
TP12-PS-16	2012 SSI (KP)	429245	5267718	388.6	4.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-PS-17	2012 SSI (KP)	429387	5267798	388.6	4.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Excavator Limit
TP12-TMF-01	2012 SSI (KP)	429067	5271158	381.7	6.0	6.0	375.7	Suspect Bedrock
TP12-TMF-02	2012 SSI (KP)	429343	5271109	387.3	5.0	5.0	382.3	Suspect Bedrock
TP12-TMF-03	2012 SSI (KP)	430063	5271030	392.1	4.0	4.0	388.1	Bedrock
TP12-TMF-04	2012 SSI (KP)	430212	5271015	389.7	4.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-TMF-05	2012 SSI (KP)	430973	5270853	383.8	2.5	2.5	381.3	Bedrock
TP12-TMF-06	2012 SSI (KP)	431303	5270813	380.2	6.5	6.5	373.7	Suspect Bedrock
TP12-TMF-07	2012 SSI (KP)	431406	5270774	380.9	0.7	0.7	380.2	Bedrock
TP12-TMF-09	2012 SSI (KP)	431869	5271114	393.2	4.2	4.2	389.0	Bedrock
TP12-TMF-10	2012 SSI (KP)	431778	5272795	387.5	2.1	2.1	385.4	Suspect Bedrock
TP12-TMF-11	2012 SSI (KP)	431220	5273336	392.4	1.9	1.9	390.5	Bedrock
TP12-TMF-12	2012 SSI (KP)	430648	5273717	375.7	3.0	3.0	372.7	Bedrock
TP12-TMF-13	2012 SSI (KP)	430373	5273728	375.2	1.4	1.4	373.8	Bedrock
TP12-TMF-14	2012 SSI (KP)	429964	5273545	378.2	1.2	1.2	377.0	Bedrock
TP12-TMF-15	2012 SSI (KP)	429909	5273519	375.9	1.9	1.9	374.0	Bedrock
TP12-TMF-16	2012 SSI (KP)	429574	5273336	380.3	0.1	0.1	380.2	Bedrock
TP12-TMF-18	2012 SSI (KP)	428092	5271815	389.5	2.0	2.0	387.5	Bedrock
TP12-TMF-20	2012 SSI (KP)	431001	5274011	381.6	3.8	3.8	377.8	Bedrock
TP12-TMF-22	2012 SSI (KP)	430848	5276972	386.5	1.9	1.9	384.6	Bedrock
TP12-TMF-23	2012 SSI (KP)	430826	5277258	378.5	1.6	1.6	376.9	Bedrock
TP12-TMF-24	2012 SSI (KP)	430726	5277288	370.5	4.2	4.2	366.3	Suspect Bedrock
TP12-TMF-25	2012 SSI (KP)	430620	5277284	373.2	2.5	2.5	370.7	Bedrock
TP12-TMF-26	2012 SSI (KP)	430390	5277300	378.2	4.0	4.0	374.2	Suspect Bedrock
TP12-TMF-27	2012 SSI (KP)	429728	5277360	375.8	1.8	1.8	374.0	Bedrock
TP12-TMF-28	2012 SSI (KP)	429496	5277317	377.7	1.2	1.2	376.5	Bedrock
TP12-TMF-29	2012 SSI (KP)	428920	5273340	379.8	3.0	3.0	376.8	Bedrock
TP12-TMF-30	2012 SSI (KP)	428814	5273825	393.8	1.5	1.5	392.3	Bedrock
TP12-TMF-31	2012 SSI (KP)	428603	5277090	387.8	4.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-TMF-32	2012 SSI (KP)	431072	5275013	394.8	4.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-TMF-33	2012 SSI (KP)	431000	5275535	405.6	1.8	1.8	403.8	Bedrock
TP12-TMF-34	2012 SSI (KP)	430955	5276123	407.3	1.8	1.8	405.5	Bedrock
TP12-TMF-35	2012 SSI (KP)	428659	5271183	402.4	0.9	0.9	401.5	Bedrock
TP12-TMF-36	2012 SSI (KP)	429622	5271060	379.0	2.2	2.2	376.8	Bedrock
TP12-TMF-37	2012 SSI (KP)	430369	5270979	396.9	4.0	4.0	392.9	Bedrock
TP12-TMF-38	2012 SSI (KP)	430529	5270939	400.9	6.3	6.3	394.6	Bedrock
TP12-TMF-39	2012 SSI (KP)	431606	5270738	394.1	0.9	0.9	393.2	Bedrock
TP12-TMF-40	2012 SSI (KP)	428331	5271311	400.6	3.0	3.0	397.6	Bedrock
TP12-TMF-41	2012 SSI (KP)	431066	5274748	412.9	1.6	1.6	411.3	Bedrock
TP12-TMF-42	2012 SSI (KP)	431831	5271742	403.9	2.1	2.1	401.8	Bedrock
TP12-TMF-43	2012 SSI (KP)	428936	5273183	377.7	4.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-TMF-44	2012 SSI (KP)	429581	5273332	380.0	3.0	3.0	377.0	Bedrock
TP12-TMF-45	2012 SSI (KP)	428598	5276708	405.2	0.9	0.9	404.3	Bedrock
TP12-TMF-46	2012 SSI (KP)	428526	5276302	408.4	4.7	4.7	403.7	Bedrock

Notes:

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(7) Bedrock not encountered

Test Pit ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾⁽³⁾		Ground Surface Elevation (masl) ⁽²⁾⁽³⁾⁽⁴⁾	Test Pit Depth (mbgs) ⁽⁵⁾	Depth to Bedrock (mbgs) ⁽⁵⁾	Bedrock Surface Elevation (masl) ⁽⁴⁾⁽⁶⁾	Reason for Stoppage
		Easting	Northing					
TP12-TMF-48	2012 SSI (KP)	428504	5275690	402.7	2.9	2.9	399.8	Bedrock
TP12-TMF-49	2012 SSI (KP)	428536	5275485	399.7	1.6	1.6	398.1	Bedrock
TP12-TMF-50	2012 SSI (KP)	428534	5275427	398.6	5.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-TMF-51	2012 SSI (KP)	428619	5275139	406.9	2.0	2.0	404.9	Bedrock
TP12-TMF-53	2012 SSI (KP)	428833	5274698	407.2	1.1	1.1	406.1	Bedrock
TP12-TMF-54	2012 SSI (KP)	428997	5274325	405.8	1.0	1.0	404.8	Bedrock
TP12-TMF-55	2012 SSI (KP)	429314	5274259	384.9	1.1	1.1	383.8	Bedrock
TP12-TMF-56	2012 SSI (KP)	429592	5274217	373.2	4.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-TMF-57	2012 SSI (KP)	430476	5273962	373.2	5.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-TMF-58	2012 SSI (KP)	430228	5274196	373.0	3.8	3.8	369.2	Suspect Bedrock
TP12-TMF-59	2012 SSI (KP)	428668	5277200	393.8	2.3	2.3	391.5	Bedrock
TP12-TMF-60	2012 SSI (KP)	428635	5276984	388.5	5.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Suspect Bedrock
TP12-TMF-61	2012 SSI (KP)	429461	5274239	376.8	4.0	4.0	372.8	Bedrock
TP12-TMF-62	2012 SSI (KP)	430746	5274672	394.1	1.6	1.6	392.5	Bedrock
TP12-TMF-63	2012 SSI (KP)	430566	5274438	388.5	1.6	1.6	386.9	Bedrock
TP12-WD-01	2012 SSI (KP)	429960	5263829	388.4	6.1	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-WD-02	2012 SSI (KP)	429908	5263258	394.1	3.0	3.0	391.1	Bedrock
TP12-WD-03	2012 SSI (KP)	430473	5263105	402.9	3.9	3.9	399.0	Bedrock
TP12-WD-04	2012 SSI (KP)	430916	5263242	400.0	3.0	3.0	397.0	Bedrock
TP12-WD-05	2012 SSI (KP)	431145	5263312	395.3	2.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-WD-07	2012 SSI (KP)	431002	5264101	393.3	3.7	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-WD-08	2012 SSI (KP)	431335	5264008	402.6	1.3	1.3	401.3	Bedrock
TP12-WD-09	2012 SSI (KP)	431742	5263909	387.8	4.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-WD-10	2012 SSI (KP)	432089	5264413	389.1	2.7	2.7	386.4	Bedrock
TP12-WD-11	2012 SSI (KP)	431678	5264995	384.4	3.2	3.2	381.2	Bedrock
TP12-WD-12	2012 SSI (KP)	431440	5265521	384.1	4.3	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-WD-13	2012 SSI (KP)	430689	5266623	382.8	5.0	5.0	377.8	Bedrock
TP12-WD-14	2012 SSI (KP)	430582	5266475	392.6	0.7	0.7	391.9	Bedrock
TP12-WD-15	2012 SSI (KP)	430479	5266074	394.4	0.6	0.6	393.8	Bedrock
TP12-WD-16	2012 SSI (KP)	430304	5265314	382.4	5.8	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP12-WD-17	2012 SSI (KP)	430165	5265203	396.7	6.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-BP-01	2013 WSI (KP)	428193	5272816	395.3	1.5	1.5	393.8	Bedrock
TP13-FD-01	2013 WSI (KP)	430986	5266064	383.0	3.2	3.2	379.8	Bedrock
TP13-FD-02	2013 WSI (KP)	431062	5265826	383.1	3.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-FD-03	2013 WSI (KP)	430845	5266058	384.2	4.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-FD-04	2013 WSI (KP)	430806	5265778	384.2	4.2	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-FD-05	2013 WSI (KP)	430517	5265724	384.0	3.2	3.2	380.8	Bedrock
TP13-FD-07	2013 WSI (KP)	429079	5264663	386.4	3.8	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-FD-08	2013 WSI (KP)	428219	5264669	390.9	4.2	4.2	386.7	Bedrock
TP13-FD-09	2013 WSI (KP)	428098	5265287	393.1	1.2	1.2	391.9	Bedrock
TP13-FD-11	2013 WSI (KP)	428170	5267324	391.8	0.2	0.2	391.6	Bedrock
TP13-FD-12	2013 WSI (KP)	428429	5267366	387.3	2.0	2.0	385.3	Bedrock
TP13-FD-16	2013 WSI (KP)	429141	5270789	384.8	2.1	2.1	382.7	Bedrock
TP13-FD-17	2013 WSI (KP)	427889	5270875	387.3	1.5	1.5	385.8	Bedrock
TP13-FD-18	2013 WSI (KP)	427887	5271393	389.8	4.5	4.5	385.3	Bedrock
TP13-FD-19	2013 WSI (KP)	427766	5272125	386.2	1.8	1.8	384.4	Bedrock
TP13-FD-20	2013 WSI (KP)	430809	5265932	384.5	2.8	2.8	381.7	Bedrock
TP13-FD-21	2013 WSI (KP)	428239	5267297	389.1	1.0	0.8	388.3	Bedrock
TP13-FD-22	2013 WSI (KP)	427778	5272551	388.2	2.2	2.2	386.0	Bedrock
TP13-PO-01	2013 WSI (KP)	430860	5266625	387.0	2.2	2.2	384.8	Bedrock
TP13-PO-02	2013 WSI (KP)	430759	5266346	386.7	2.7	2.7	384.0	Bedrock
TP13-PO-03	2013 WSI (KP)	431022	5266638	388.1	1.8	1.8	386.3	Bedrock
TP13-PO-04	2013 WSI (KP)	430799	5266171	385.6	0.9	0.9	384.7	Bedrock
TP13-PO-05	2013 WSI (KP)	430953	5266225	382.5	4.5	4.5	378.0	Bedrock
TP13-PO-06	2013 WSI (KP)	430273	5265999	391.0	2.0	2.0	389.0	Bedrock
TP13-PO-07	2013 WSI (KP)	430787	5265629	390.8	0.8	0.8	390.0	Bedrock
TP13-PO-08	2013 WSI (KP)	430638	5265457	384.8	3.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-PO-09	2013 WSI (KP)	430611	5265271	387.4	1.0	1.0	386.4	Bedrock
TP13-PO-10	2013 WSI (KP)	429975	5265986	388.4	2.0	2.0	386.4	Bedrock

Notes:

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(7) Bedrock not encountered

Test Pit ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾⁽³⁾		Ground Surface Elevation (masl) ⁽²⁾⁽³⁾⁽⁴⁾	Test Pit Depth (mbgs) ⁽⁵⁾	Depth to Bedrock (mbgs) ⁽⁵⁾	Bedrock Surface Elevation (masl) ⁽⁴⁾⁽⁶⁾	Reason for Stoppage
		Easting	Northing					
TP13-PO-11	2013 WSI (KP)	430017	5265712	390.0	2.2	2.2	387.8	Bedrock
TP13-PO-12	2013 WSI (KP)	430108	5265288	397.9	1.7	1.7	396.2	Bedrock
TP13-PO-13	2013 WSI (KP)	429521	5265499	388.1	1.5	1.5	386.6	Bedrock
TP13-PO-14	2013 WSI (KP)	429298	5265611	386.5	3.6	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-PO-15	2013 WSI (KP)	429040	5265602	387.6	4.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-PO-16	2013 WSI (KP)	428932	5266102	394.9	2.0	2.0	392.9	Bedrock
TP13-PO-17	2013 WSI (KP)	428809	5266130	393.3	0.3	0.3	393.0	Bedrock
TP13-PO-18	2013 WSI (KP)	428844	5266595	404.7	0.9	0.9	403.8	Bedrock
TP13-PO-19	2013 WSI (KP)	428705	5266860	395.3	2.9	2.9	392.4	Bedrock
TP13-PO-20	2013 WSI (KP)	428894	5266827	394.9	1.1	1.1	393.8	Bedrock
TP13-PO-21	2013 WSI (KP)	428947	5267038	391.5	1.8	1.8	389.7	Bedrock
TP13-PO-22	2013 WSI (KP)	428686	5267032	388.5	1.3	1.3	387.2	Bedrock
TP13-PO-23	2013 WSI (KP)	428772	5267162	390.0	0.5	0.5	389.5	Bedrock
TP13-PO-24	2013 WSI (KP)	428902	5267219	387.6	0.8	0.8	386.8	Bedrock
TP13-PO-25	2013 WSI (KP)	429527	5267688	391.6	4.0	4.0	387.6	Bedrock
TP13-PO-26	2013 WSI (KP)	429711	5267682	396.1	0.1	0.1	396.0	Bedrock
TP13-PO-27	2013 WSI (KP)	429790	5267787	391.1	2.2	2.2	388.9	Bedrock
TP13-PO-28	2013 WSI (KP)	430065	5267794	381.7	1.5	1.5	380.2	Bedrock
TP13-PO-29	2013 WSI (KP)	429967	5267588	382.8	2.4	2.4	380.4	Bedrock
TP13-PO-30	2013 WSI (KP)	429020	5267479	396.9	2.9	2.9	394.0	Bedrock
TP13-PO-31	2013 WSI (KP)	429520	5267739	392.9	0.8	0.8	392.1	Bedrock
TP13-PO-32	2013 WSI (KP)	429643	5267820	389.3	6.8	6.8	382.5	Bedrock
TP13-PO-33	2013 WSI (KP)	429616	5267662	392.4	1.2	1.2	391.2	Bedrock
TP13-PO-34	2013 WSI (KP)	429872	5267682	390.7	1.8	1.8	388.9	Bedrock
TP13-PO-35	2013 WSI (KP)	429942	5267903	404.4	2.0	2.0	402.4	Bedrock
TP13-PO-36	2013 WSI (KP)	430490	5266290	384.4	2.1	2.1	382.3	Bedrock
TP13-PO-37	2013 WSI (KP)	430218	5266301	382.2	6.4	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-PO-38	2013 WSI (KP)	429385	5265464	388.7	2.2	2.2	386.5	Bedrock
TP13-PO-39	2013 WSI (KP)	429358	5265611	387.2	3.3	3.3	383.9	Bedrock
TP13-PO-40	2013 WSI (KP)	429864	5265837	391.8	2.7	2.7	389.1	Bedrock
TP13-PO-43	2013 WSI (KP)	430542	5266717	390.7	5.8	5.8	384.9	Bedrock
TP13-RCP-01	2013 WSI (KP)	430622	5268514	383.9	2.2	2.2	381.7	Bedrock
TP13-RCP-02	2013 WSI (KP)	430365	5268132	391.5	0.4	0.4	391.1	Bedrock
TP13-RCP-03	2013 WSI (KP)	430210	5268372	387.3	0.9	0.9	386.4	Bedrock
TP13-RCP-04	2013 WSI (KP)	430379	5268556	381.8	1.9	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-WD-01	2013 WSI (KP)	430560	5263286	404.1	1.4	1.4	402.7	Bedrock
TP13-WD-01A	2013 WSI (KP)	430185	5263400	408.6	1.8	1.8	406.8	Bedrock
TP13-WD-02	2013 WSI (KP)	430087	5263362	409.8	1.5	1.5	408.3	Bedrock
TP13-WD-03	2013 WSI (KP)	430006	5264268	393.9	4.1	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-WD-04	2013 WSI (KP)	432265	5267933	388.4	1.2	1.2	387.2	Bedrock
TP13-WD-05	2013 WSI (KP)	431694	5268747	395.3	1.5	1.5	393.8	Bedrock
TP13-WD-06	2013 WSI (KP)	432187	5269167	410.7	1.6	1.6	409.1	Bedrock
TP13-WD-07	2013 WSI (KP)	432689	5269158	397.7	2.2	2.2	395.5	Bedrock
TP13-WD-08	2013 WSI (KP)	433328	5269099	377.4	3.3	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-WD-09	2013 WSI (KP)	433699	5268746	387.3	2.4	2.4	384.9	Bedrock
TP13-WD-10	2013 WSI (KP)	432925	5268005	387.7	2.2	2.2	385.5	Bedrock
TP13-WD-11	2013 WSI (KP)	432606	5268346	395.1	2.6	2.6	392.5	Bedrock
TP13-WD-12	2013 WSI (KP)	432426	5265255	388.1	2.7	2.7	385.4	Bedrock
TP13-WD-13	2013 WSI (KP)	432562	5265737	389.8	1.7	1.7	388.1	Bedrock
TP13-WD-14	2013 WSI (KP)	433745	5265856	390.5	3.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-WD-15	2013 WSI (KP)	434429	5265587	413.2	3.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-WD-16	2013 WSI (KP)	434629	5265147	410.3	7.0	7.0	403.3	Bedrock
TP13-WD-17	2013 WSI (KP)	434317	5264771	403.6	4.3	4.3	399.3	Bedrock
TP13-WD-18	2013 WSI (KP)	433964	5264464	403.4	6.2	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP13-WD-19	2013 WSI (KP)	427899	5264043	389.5	3.2	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP1	2012 GSI (Golder)	428953	5265984	387.8	0.1	0.1	387.7	Bedrock
TP2	2012 GSI (Golder)	430044	5267697	382.0	4.0	4.0	378.0	Unknown
TP4	2012 GSI (Golder)	430392	5267375	384.1	2.5	2.5	381.6	Bedrock
TP8	2012 GSI (Golder)	430695	5266970	382.2	4.5	4.5	377.7	Bedrock

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(7) Bedrock not encountered

Table 1

Test Pit ID	Site Investigation ⁽¹⁾	UTM Location (NAD 83 Zone 17T) ⁽²⁾⁽³⁾		Ground Surface Elevation (masl) ⁽²⁾⁽³⁾⁽⁴⁾	Test Pit Depth (mbgs) ⁽⁵⁾	Depth to Bedrock (mbgs) ⁽⁵⁾	Bedrock Surface Elevation (masl) ⁽⁴⁾⁽⁶⁾	Reason for Stoppage
		Easting	Northing					
TP9	2012 GSI (Golder)	430280	5266382	382.1	0.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP15	2012 GSI (Golder)	429686	5265561	388.1	4.5	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Excavator Limit
TP16	2012 GSI (Golder)	429843	5265712	389.1	4.0	4.0	385.1	Unknown
TP17	2012 GSI (Golder)	429814	5265947	391.4	3.0	3.0	388.4	Bedrock
TP20	2012 GSI (Golder)	430458	5266129	392.6		0.1	392.5	Bedrock
TP21	2012 GSI (Golder)	430333	5266317	386.3	0.3	0.3	386.0	Bedrock
TP22	2012 GSI (Golder)	430229	5266495	385.2	0.3	0.3	384.9	Bedrock
TP35	2012 GSI (Golder)	430487	5266866	384.9	4.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP59	2012 GSI (Golder)	429542	5265347	389.1	0.3	0.3	388.8	Bedrock
TP60	2012 GSI (Golder)	429204	5265410	397.0	0.5	0.5	396.5	Bedrock
TP83	2012 GSI (Golder)	430739	5266987	387.1	1.6	1.6	385.5	Bedrock
TP86	2012 GSI (Golder)	430361	5265874	388.9	0.1	0.1	388.8	Bedrock
TP88	2012 GSI (Golder)	430362	5265924	384.3	3.0	n/a ⁽⁷⁾	n/a ⁽⁷⁾	Unstable Pit Walls
TP90	2012 GSI (Golder)	428981	5265473	387.5	4.2	4.2	383.3	Probable Bedrock
TP93	2012 GSI (Golder)	429467	5265659	389.0	2.2	2.2	386.8	Bedrock
TP101	2012 GSI (Golder)	430463	5266865	386.0	4.2	4.2	381.8	Bedrock
TP102	2012 GSI (Golder)	430411	5265897	384.7	0.6	0.6	384.1	Bedrock
TP103	2012 GSI (Golder)	430369	5265879	386.2	3.5	3.5	382.7	Bedrock
TP104	2012 GSI (Golder)	429680	5265340	390.1	2.4	2.4	387.7	Bedrock
TP105	2012 GSI (Golder)	429281	5265764	390.1	0.4	0.4	389.7	Bedrock
TP106	2012 GSI (Golder)	429301	5265753	387.8	1.3	1.3	386.5	Bedrock
TP107	2012 GSI (Golder)	429328	5265731	390.4	1.9	1.9	388.5	Bedrock
TP109	2012 GSI (Golder)	429009	5265988	387.9	1.1	1.1	386.8	Bedrock
TP110	2012 GSI (Golder)	429281	5265766	390.3	1.6	1.6	388.7	Bedrock

Notes:

- (1) Test pits completed by Knight Piésold during 2012 Summer Site Investigation denoted as "2012 SSI (KP)". Test pits completed by Golder during 2012 Groundwater Seepage Investigation denoted as "2012 GSI (Golder)". Test pits completed by Knight Piésold during 2013 Winter Site Investigation denoted as "2013 WSI (KP)".
- (2) UTM coordinates and ground surface elevations in normal font were provided by a professional surveyor (L. Labelle Surveys)
- (3) UTM coordinates and elevations in **bold** font were not surveyed; coordinates were obtained using a handheld GPS and elevations were estimated from available topographic contour
- (4) "masl" refers to metres above sea level
- (5) "mbgs" refers to metres below ground surface
- (6) Elevations in **bold** font represent locations where the ground surface elevation was not surveyed, therefore bedrock surface elevations were estimated from available topographic contour information and are approximate
- (7) Bedrock not encountered



APPENDIX F

Test Pit Log Sheets

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-1

SHEET 1 OF 1

LOCATION: N 5265984.0 ; E 428953.0

EXCAVATION DATE: DECEMBER 16, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	rem V. ⊕			Q - ●	U - ○
0		GROUND SURFACE															
0.0		SANDY PEAT, dark brown, roots/moss, moist.		0.0													
0.1		BEDROCK END OF PIT at 0.1 m.		0.1													
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-2

SHEET 1 OF 1

LOCATION: N 5267698.0 ; E 430043.0

EXCAVATION DATE: DECEMBER 12, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. + rem V. ⊕ ⊙		Q - U - ⊙				Wp	
0		GROUND SURFACE															
		SANDY PEAT, some silt, black, twigs/roots/organics, wet, non-cohesive.		0.0													
		(SW) SAND, fine to med-coarse, trace silt, grey and light brown, mottled, oxidized, non-cohesive, wet, becoming saturated (free water) at approximately 2.0 m.		0.6													
2					1	GS	2.0 m										
4					2	GS	4.0 m										
4		END OF PIT at 4.0 m.		4.0													
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-4

SHEET 1 OF 1

LOCATION: N 5267376.0 ;E 430391.0

EXCAVATION DATE: DECEMBER 12, 2013

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. + rem V. ⊕ ⊙		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³				Wp	
0		GROUND SURFACE															
		(GP) GRAVEL and COBBLES, sandy, grey, non-cohesive, moist, frozen, (FILL).		0.0													
		(FILL) ~50% cobbles, some wood, some sand, debris, some gravel, dark brown/black, non-cohesive, moist to wet.		0.3													
1		(SP) SAND, fine-grained, grey, oxidized, non-cohesive, moist.		0.8													
		(SP) SAND, fine to medium-grained, silty, some gravel, cobbles and boulders, non-cohesive, wet, (TILL).		1.3													
2					1	GS	2.2 m - 2.5 m										
3		BEDROCK END OF PIT at 2.5 m.		2.5													
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-8

SHEET 1 OF 1

LOCATION: N 5266971.0 ; E 430694.0

EXCAVATION DATE: DECEMBER 12, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20		40		60				80	
0		GROUND SURFACE															
0.2		SILTY PEAT, some gravel, dark brown, organics/roots/moss, non-cohesive, moist. (ML) SILT, some fine sand, trace gravel, grey and light brown units, oxidized layers, non-cohesive, moist.	[Strata Plot: Hatched]	0.0													
1																	
2					1	GS	2.0										
3		(SP) SAND, fine-grained, some gravel, trace silt, grey-blue, cobbles and boulders, non-cohesive, moist to wet.	[Strata Plot: Dotted]	2.7													
4					2	GS	4.0										
4.5		Bedrock or large boulder END OF PIT at 4.5 m.		4.5													
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-9

SHEET 1 OF 1

LOCATION: N 5266385.0 ;E 430270.0

EXCAVATION DATE: DECEMBER 13, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE															
		FIBROUS PEAT, roots, boulders (15% of weight), dark brown, wet.		0.0													
		END OF PIT at 0.5 m.		0.5													
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-15

SHEET 1 OF 1

LOCATION: N 5265561.0 ; E 429686.0

EXCAVATION DATE: DECEMBER 15, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	20		40		10 ⁻⁶				10 ⁻⁵	
								SHEAR STRENGTH Cu, kPa		nat V. + rem V. ⊕ ⊖		Q - U - ● ○				WATER CONTENT PERCENT	
0		GROUND SURFACE															
		SILTY PEAT, some sand, dark brown/black, roots/moss, moist.		0.0 0.1													
		(ML) SILT, some gravel, red-brown, cobbles and boulders, non-cohesive, moist.		0.3													
1		(SP) Gravelly SAND, some silt, grey-brown, cobbles and boulders (10% of weight), moist (TILL).															
2		(SW) SAND, fine to coarse-grained, grey-pink, moist.		2.0													
		(SP) SAND, fine to medium-grained, some silt, grey, thinly bedded, moist.		2.2													
4																	
5		Bedrock not encountered. End of excavator reach. A second log was machine-excavated at the same location on December 16, 2012. Hit rock in one location. END OF PIT at 4.5 m.		4.5	1	GS	4.5 m										
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-16

SHEET 1 OF 1

LOCATION: N 5265713.0 ; E 429843.0

EXCAVATION DATE: DECEMBER 13, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE															
0.0		ORGANIC SILT, trace gravel, dark brown, roots/mosses, non-cohesive, moist. (ML) Sandy SILT, some gravel, red-brown, cobbles and boulders (10% of weight), non-cohesive, moist. (SP) SAND, some silt, some gravel, grey-brown, cobbles and boulders (5% of weight), moist, (TILL).	[Strata Plot]	0.0													
0.1																	
0.5																	
1																	
2					1	GS	2.0 m										
3																	
3.0		(SP) Gravelly SAND, fine to coarse-grained, poorly sorted, grey-brown, lenses/layers of different grain sizes, wet.		3.0													
3.5					2	GS	3.5 m - 4.0 m										
4		END OF PIT at 4.0 m.		4.0													
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-17

SHEET 1 OF 1

LOCATION: N 5265948.0 ; E 429814.0

EXCAVATION DATE: DECEMBER 15, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE															
0.0		ORGANIC SILT, some sand, trace gravel, dark brown, roots/organics, non-cohesive, moist. (ML) Sandy SILT, some gravel, red-brown, non-cohesive, moist. (SP) Gravelly SAND, fine to coarse-grained, trace silt, grey and brown, oxidized, layered/lensed, cobbles and boulders, moist, becoming wet near bottom of pit (~2.8 m below ground surface), (TILL).		0.0													
0.2																	
0.5																	
1																	
2					1	GS	2.0 m										
3					2	GS	3.0 m										
3		BEDROCK END OF PIT at 3.0 m.		3.0													
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-21

SHEET 1 OF 1

LOCATION: N 5266318.0 ; E 430333.0

EXCAVATION DATE: DECEMBER 13, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE		0.0													
0.3		(SM) SILTY SAND, some gravel, red-brown and brown, cobbles and boulders, (20% of weight), non-cohesive, moist.		0.3													
1		BEDROCK															
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-22

SHEET 1 OF 1

LOCATION: N 5266496.0 ; E 430229.0

EXCAVATION DATE: DECEMBER 13, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE															
		SILTY PEAT, dark brown, organics/roots/moss, moist.		0.0													
		(ML) SILT, some sand, roots, trace gravel, red-brown, cobbles (10% weight), non-cohesive, moist.		0.3													
		BEDROCK		0.5													
		END OF PIT at 0.5 m.															
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-35

SHEET 1 OF 1

LOCATION: N 5266866.0 ; E 430487.0

EXCAVATION DATE: DECEMBER 12, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE															
0.0		SANDY PEAT, dark brown, moist.		0.0													
0.1		(SM) SILTY SAND, trace gravel, brown, oxidized, cobbles and boulders, non-cohesive, moist.		0.1													
0.5		(SP) SAND, fine to medium-grained, some silt, trace gravel, grey, cobbles and boulders (15% of weight), non-cohesive, moist, becoming wet at approximately 3.5 m below ground surface (free water) slumping, soupy material, (TILL).		0.5													
1																	
2					1	GS	2.0										
3																	
4		No bedrock encountered END OF PIT at 4.0 m.		4.0													
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-59

SHEET 1 OF 1

LOCATION: N 5265348.0 ; E 429542.0

EXCAVATION DATE: DECEMBER 14, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE															
		(OL) ORGANIC SILT, trace sand, roots, dark brown, non-cohesive, moist.		0.0													
		(ML) SILT, some sand, trace gravel, brown, boulders and cobbles (15% of weight), non-cohesive, moist.		0.1													
		BEDROCK		0.3													
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-60

SHEET 1 OF 1

LOCATION: N 5265411.0 ; E 429204.0

EXCAVATION DATE: DECEMBER 15, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE															
		SILTY PEAT, some sand, organics/roots, dark brown, non-cohesive, moist.		0.0													
		(ML) Silty SILT, some gravel, red-brown, cobbles and boulders (15% of weight), non-cohesive, moist.		0.1													
		(SM) Silty SAND, some gravel, grey-brown, cobbles and boulders (15% of weight), moist, (TILL).		0.3													
1		BEDROCK END OF PIT at 0.5 m.		0.5													

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-83

SHEET 1 OF 1

LOCATION: N 5266988.0 ; E 430739.0

EXCAVATION DATE: DECEMBER 12, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. + rem V. ⊕ ⊙		Q - U				Wp	
0		GROUND SURFACE					20	40	60	80							
		SILTY PEAT, some gravel, dark brown, organics/roots/moss, non-cohesive, moist.		0.0													
		(ML) SILT, trace sand, trace gravel, red-brown, non-cohesive, moist.		0.3													
1		(ML) and (SP) SILT and SAND, some gravel, grey, lenses of different grain sizes, cobbles, boulders, non-cohesive, moist.		0.6													
2		BEDROCK END OF PIT at 1.6 m.		1.6													
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-86

SHEET 1 OF 1

LOCATION: N 5265875.0 ; E 430360.0

EXCAVATION DATE: DECEMBER 13, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	rem V. ⊕			Q - ●	U - ○
0		GROUND SURFACE		0.0													
		Fibrous PEAT (mosses), dark brown, moist.															
		BEDROCK															
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-87

SHEET 1 OF 1

LOCATION: N 5265937.0 ;E 430398.0

EXCAVATION DATE: DECEMBER 13, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa		WATER CONTENT PERCENT		WATER CONTENT PERCENT			
								20	40	60	80	nat V. +	rem V. ⊕		
0		GROUND SURFACE		0.0											
0		BEDROCK ENCOUNTERED AT GROUND SURFACE.		0.0											
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-88

SHEET 1 OF 1

LOCATION: N 5265925.0 ; E 430368.0

EXCAVATION DATE: DECEMBER 13, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. + rem V. ⊕ - ⊙		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³				Wp	
0		GROUND SURFACE															
		SILTY PEAT, roots/organics, dark brown, wet.		0.0													
		(SP) SAND, fine to medium-grained, grey and brown, thinly and medium-bedded, wet.		0.3													
1																	
2					1	GS	2.0										
3		END OF PIT at 3.0 m.		3.0													
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-90

SHEET 1 OF 1

LOCATION: N 5265474.0 ; E 428981.0

EXCAVATION DATE: DECEMBER 15, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa		WATER CONTENT PERCENT					
								20	40	60	80	10 ⁻⁶	10 ⁻⁵		
0		GROUND SURFACE													
0		FIBROUS PEAT, dark brown, bog smell, wet.		0.0											
2.2		(SP) SAND, fine to medium-grained, grey, layered/lensed, wet.		2.2	1	GS	2.2 m								
3.5		(SP) and (ML) SAND and SILT, fine-grained, grey, layered (very thinly bedded), alternating soil types, (ML) is cohesive (2 mm thread), w<PL, (had to add water to roll thread), sand moist to wet.		3.5											
4.2		Probable BEDROCK END OF PIT at 4.2 m.		4.2	2	GS	4.0 m								
5															
6															
7															
8															
9															
10															

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-93

SHEET 1 OF 1

LOCATION: N 5265660.0 ; E 429467.0

EXCAVATION DATE: DECEMBER 15, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. + rem V. ⊕ ⊙		Q - U - ● ⊙				Wp	
0		GROUND SURFACE															
0.0		SANDY PEAT, silty, dark brown/black, non-cohesive, moist. (ML) Sandy SILT, trace gravel, red-brown, cobbles and boulders (20% of weight), non-cohesive, moist. (SP) Silty SAND, fine to coarse-grained, some gravel, grey-brown, cobbles and boulders, moist, turning wet near bottom of pit at approximately 2.1 m depth below ground surface.		0.0													
0.1																	
0.5																	
1																	
2																	
2.2		BEDROCK END OF PIT at 2.2 m.		2.2													
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-94

SHEET 1 OF 1

LOCATION: N 5265974.0 ; E 429026.0

EXCAVATION DATE: DECEMBER 16, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa		WATER CONTENT PERCENT		WATER CONTENT PERCENT			
								20	40	60	80	nat V. +	rem V. ⊕		
0		GROUND SURFACE		0.0											
0		BEDROCK ENCOUNTERED AT GROUND SURFACE.		0.0											
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-101

SHEET 1 OF 1

LOCATION: N 5266866.0 ;E 430463.0

EXCAVATION DATE: DECEMBER 13, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa		WATER CONTENT PERCENT						
								20	40	60	80	nat V. +	rem V. ⊕			Q - ●
0		GROUND SURFACE														
0.0		SANDY PEAT, dark brown, organics, moist. (SM) SILTY SAND, trace gravel, red-brown, oxidized, cobbles and boulders, non-cohesive, moist. (SP) SAND, fine to medium-grained, some silt, trace gravel, grey, cobbles and boulders (10% of weight), moist, becoming wet at approximately 3.5 m below ground surface (free water), (TILL).		0.0												
0.1																
0.4																
1																
2																
3																
4																
4.2		BEDROCK END OF PIT at 4.2 m.		4.2												
5																
6																
7																
8																
9																
10																

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-102

SHEET 1 OF 1

LOCATION: N 5265898.0 ; E 430411.0

EXCAVATION DATE: DECEMBER 13, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE															
		SILTY PEAT, dark brown, moist.		0.0													
		SILTY SAND, fine to med-grained, some gravel, brown and red-brown (oxidized), cobbles and boulders (15% of weight), roots, moist.		0.6													
1		BEDROCK END OF PIT at 0.6 m.															
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-103

SHEET 1 OF 1

LOCATION: N 5265880.0 ; E 430368.0

EXCAVATION DATE: DECEMBER 13, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. + rem V. ⊕ ⊙		Q - U - ⊙				Wp	
0		GROUND SURFACE		0.0													
		SILTY PEAT, dark brown, roots, moist.		0.0													
		(SM) SILTY SAND, brown-red (oxidized), cobbles and boulders (15% of weight), moist.		0.1													
		(SW) SAND, fine to coarse-grained, some silt, trace gravel, brown, cobbles and boulders, moist.		0.0													
				0.4													
1																	
2																	
3																	
				0.0													
		BEDROCK		3.5													
4		END OF PIT at 3.5 m.															
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-104

SHEET 1 OF 1

LOCATION: N 5265341.0 ; E 429680.0

EXCAVATION DATE: DECEMBER 14, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa		WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	rem V. ⊕		
0		GROUND SURFACE													
		(OL) ORGANIC SILT, trace sand, roots, dark brown, non-cohesive, moist.		0.0											
		(SP) SAND, fine to coarse-grained, some silt, some gravel, brown, oxidized, cobbles and boulders (20% of weight), moist, (TILL).		0.3											
1															
2					1	GS	2.0								
2.4		BEDROCK END OF PIT at 2.4 m.		2.4											
3															
4															
5															
6															
7															
8															
9															
10															

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-105

SHEET 1 OF 1

LOCATION: N 5265386.0 ; E 429396.0

EXCAVATION DATE: DECEMBER 14, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa		WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	rem V. ⊕		
0		GROUND SURFACE		0.0											
		(ML) SILT, trace sand, brown, cobbles and boulders (10% of weight), cohesive (~5 mm thread), w-PL, wet.		0.1	1	GS	0.25 m								
		BEDROCK END OF PIT at 0.4 m.		0.4											
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-106

SHEET 1 OF 1

LOCATION: N 5265754.0 ; E 429301.0

EXCAVATION DATE: DECEMBER 16, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE		0.0													
0.1		SILTY PEAT, some sand, dark brown/black, non-cohesive, moist.		0.1													
1		(SP) Silty SAND, gravelly, some silt, grey-brown, oxidized, cobbles and boulders, non-cohesive, moist, turning wet at approximately 1.1 m below ground surface.			1	GS											
1.3		BEDROCK END OF PIT at 1.3 m.		1.3													
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-107

SHEET 1 OF 1

LOCATION: N 5265732.0 ; E 429328.0

EXCAVATION DATE: DECEMBER 15, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	Q - ●			rem V. ⊕	U - ○
0		GROUND SURFACE															
		SILTY PEAT		0.0													
		(ML) Sandy SILT, trace gravel, red-brown, cobbles and boulders, non-cohesive, moist.		0.2													
		(SP) SAND, fine to coarse-grained, some silt, some gravel, grey, cobbles and boulders (10% of weight), moist, (TILL).		0.5													
2		BEDROCK END OF PIT at 1.9 m.		1.9													
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-109

SHEET 1 OF 1

LOCATION: N 5265986.0 ; E 429008.0


EXCAVATION DATE: DECEMBER 16, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. rem V.	+ ⊕	- ⊙	Wp			W	Wi
0		GROUND SURFACE					20	40	60	80							
0.0		SANDY PEAT (SW) Silty SAND, fine to coarse-grained, gravelly, grey-brown, cobbles and boulders (60% of weight), wet.		0.0													
0.1																	
1				1	GS	0.75 m											
1.1		BEDROCK END OF PIT at 1.1 m.		1.1													
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: ID

CHECKED: MO

PROJECT: 12-1192-0010 / 8300 / 8310

RECORD OF TEST PIT: TP-110

SHEET 1 OF 1

LOCATION: N 5265766.0 ; E 429281.0

EXCAVATION DATE: DECEMBER 15, 2012

DATUM: Geodetic

SAMPLER HAMMER, 63.5 kg; DROP, 760 mm

INCLINATION: -90 degrees

PENETRATION TEST HAMMER, 63.5 kg; DROP, 760 mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. + rem V. ⊕ ⊙		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³				Wp	
0		GROUND SURFACE															
0.0		SILTY PEAT		0.0													
0.1		(ML) Sandy SILT, some gravel, red-brown, cobbles and boulders, non-cohesive, moist.		0.1													
0.4		(SP) Silty SAND, fine to coarse-grained, gravelly, brown-grey, cobbles and boulders (10% of weight), moist.		0.4													
1.6		BEDROCK		1.6													

SUD-BOREHOLE 12-1192-0010.GPJ GLDR CAN.GDT 16/04/13 DATA INPUT:

DEPTH SCALE

1 : 50



LOGGED: CW

CHECKED: MO

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-01

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 26 Jun 12

Location: Borrow Pit

Total Depth: 3.00 m

Date Completed: 26 Jun 12

Coordinates: 5,267,923 N, 427,332 E

Elevation: 388.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	387.0	GB	BU-1			TILL (0 to 3) GRAVEL, fine to coarse, angular to rounded; AND SAND, fine to coarse; some cobbles, subrounded to rounded; trace boulders, subrounded to rounded; trace silt; well graded, light brown to brownish grey, compact to dense, wet to saturated.	
2.0	386.0						
3.0	385.0					End of Test Pit: 3 m	
4.0	384.0						Test pit located in historic borrow pit west of current Chester access road before TMF #1. Flowing stream south of test pit. Groundwater encountered at 1.3 m depth. Refusal due to bedrock at 3.0 m depth.
5.0	383.0						

SAMPLING SYMBOLS:

GB GRAB

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CÔTÉ GOLD PROJECT

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.129

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-02

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 11 Jul 12

Location: Borrow Pit

Total Depth: 2.00 m

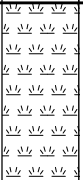
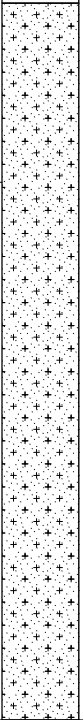
Date Completed: 11 Jul 12

Coordinates: 5,276,412 N, 428,876 E

Elevation: 397.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.4) PEAT; MANY boulders, angular to subangular; trace cobbles, angular to subangular; trace sand, fine to coarse; reddish brown/grey, fibrous, with root inclusions.	
						SAND/SILT (0.4 to 2) Silty; SAND, fine to coarse; trace boulders, angular to subangular; trace cobbles, angular to subrounded; trace gravel, angular to subrounded; poorly graded, light brown, loose to compact, moist, with trace root inclusions.	
1.0	396.0		GB BU-1				
2.0	395.0					End of Test Pit: 2 m	Test pit located in area with pine / alder and birch trees. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 2.0 m depth.

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.130

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-03

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 12 Jul 12

Location: Borrow Pit

Total Depth: 2.40 m

Date Completed: 12 Jul 12

Coordinates: 5,275,672 N, 429,113 E

Elevation: 392.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 1) PEAT; trace boulders, angular to subangular; dark brown, spongy to plastic, fibrous, moist to wet, with root and wood inclusions.	
1.0	391.0					SAND/SILT (1 to 1.5) Silty; SAND, fine; trace boulders, angular to subrounded; poorly graded, grey, compact, stratified, moist to wet, with trace root inclusions.	
2.0	390.0					SAND (1.5 to 2.4) SAND, fine to coarse; some silt; trace gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; well graded, grey, compact to dense, massive, wet to saturated.	Test pit located in area with spruce/tamarak/alder trees. Easy digging with excavator. Pit walls stable. Groundwater infilling at 2.4 m.
					▼	End of Test Pit: 2.4 m	

SAMPLING SYMBOLS:

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Project No.
NB101-497/1

Ref. No.
4

Rev.
0

Figure A1.131

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-04

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 11 Jul 12

Location: Borrow Pit

Total Depth: 2.00 m

Date Completed: 11 Jul 12

Coordinates: 5,275,765 N, 428,686 E

Elevation: 401.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 1.7) PEAT; some boulders, angular; trace cobbles, angular; spongy, fibrous, saturated, with root and weed inclusions.	
						TILL (1.7 to 2) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some silt; trace cobbles, angular to subrounded; well graded, grey, dense, massive, wet.	
1.0	400.0						
		GB	BU-1				
2.0	399.0					End of Test Pit: 2 m	Test pit located at bottom of slope. Easy digging with excavator. Pit walls stable. Groundwater infilling from surface. Refusal due to bedrock at 2.0 m depth.

SAMPLING SYMBOLS:

GRAB

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.132

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-05

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 12 Jul 12

Location: Borrow Pit

Total Depth: 6.50 m

Date Completed: 12 Jul 12

Coordinates: 5,275,726 N, 429,102 E

Elevation: 375.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.6) PEAT; dark brown, spongy to plastic, fibrous, wet, with root and wood inclusions.	
1.0	374.0					ORGANICS (0.6 to 1) ORGANIC SILT; low plasticity, brownish grey, plastic, fibrous, wet, with preserved plant remains.	
2.0	373.0					SILT/SAND (1 to 5) Sandy, fine; SILT; trace clay; non plastic, blueish grey, firm to very stiff, stratified, wet to saturated.	
3.0	372.0						
4.0	371.0						Test pit located in area of spruce and tamarak trees with moss/grasses/shrubs.
5.0	370.0						Difficulty digging increases with depth.
						SAND (5 to 6.5) SAND, fine to coarse; some gravel, fine to coarse, subangular to subrounded; trace silt; trace boulders, subangular to subrounded; trace cobbles, subangular to subrounded; grey, very dense, massive, saturated.	Pit walls stable.
6.0	369.0	GB	BU-1				Groundwater infilling at 6.5 m.
						End of Test Pit: 6.5 m	End of test pit at 6.5 m depth due to limits of excavator reach.

SAMPLING SYMBOLS:

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Figure A1.133

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-06

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 11 Jul 12

Location: Borrow Pit

Total Depth: 2.50 m

Date Completed: 11 Jul 12

Coordinates: 5,275,768 N, 428,708 E

Elevation: 409.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	408.0					ORGANICS (0 to 2.5) PEAT; reddish brown, spongy to plastic, fibrous, wet to saturated, with root and wood inclusions.	Test pit located in spruce stand. Area is low/wet and covered with moss and shrubs. Ground not stable. Groundwater infilling slowly from surface. End of pit at 2.5 m depth due to safety concerns. Shovel was pushed to approximately 5 m depth and did not encounter bedrock.
2.0	407.0				▼		
End of Test Pit: 2.5 m							

SAMPLING SYMBOLS:

GB GRAB

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.134

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
 I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-07

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 12 Jul 12

Location: Borrow Pit

Total Depth: 5.50 m

Date Completed: 12 Jul 12

Coordinates: 5,274,210 N, 428,287 E

Elevation: 391.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	390.0					ORGANICS (0 to 3.7) PEAT; dark reddish brown, spongy to plastic, fibrous, wet to saturated, with root and wood inclusions.	
2.0	389.0						
3.0	388.0						
4.0	387.0	GB	BU-1			SILT/SAND (3.7 to 5.5) Sandy, fine to coarse; SILT; trace clay; non-plastic, blueish grey, firm to stiff, stratified, wet. Layers of fine sand and silt with trace intermittent medium to coarse sand layers.	Test pit located in spruce stand with moss/grass/shrub cover. Ground is very unstable. Groundwater infilling from 3.7 m.
5.0	386.0						End of test pit at 5.5 m depth due to infilling water and slough.
						End of Test Pit: 5.5 m	

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.135

I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-08

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 13 Jul 12

Location: Borrow Pit

Total Depth: 2.60 m

Date Completed: 13 Jul 12

Coordinates: 5,274,855 N, 430,270 E

Elevation: 393.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.2) PEAT; some boulders, subangular; some cobbles, subangular to subrounded; trace sand, fine to coarse; light brownish grey, spongy, fibrous, dry to moist, with root inclusions.</p> <p>SAND/SILT (0.2 to 2.6) Silty; SAND, fine to coarse; MANY boulders, angular to subangular; trace to some cobbles, angular to subrounded; some gravel, angular to subrounded; poorly graded, light orangeish brown, loose to compact, massive. Gravel, cobble and boulder content increases with depth.</p>	
1.0	392.0						
2.0	391.0	GB	BU-1				<p>Test pit located in elevated area of pine stand.</p> <p>Easy digging with excvator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 2.6 m depth.</p>
End of Test Pit: 2.6 m							

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.136

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-09

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 13 Jul 12

Location: Borrow Pit

Total Depth: 4.00 m

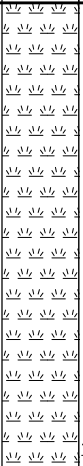
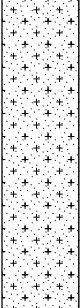

Date Completed: 13 Jul 12

Coordinates: 5,275,016 N , 430,755 E

Elevation: 392.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	391.0					ORGANICS (0 to 2.1) PEAT; dark reddish brown, spongy to plastic, fibrous, wet to saturated, with root and wood inclusions, trace shells.	
2.0	390.0					SILT/SAND (2.1 to 3.5) Sandy, fine; SILT; trace clay; non plastic, blueish grey, firm to very stiff, stratified, wet to saturated, with root inclusions and shell inclusions to 2.2 m.	
4.0	388.0	GB	BU-1			SAND/SILT (3.5 to 4) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace cobbles, subangular to subrounded; trace clay; poorly graded, blueish grey, very dense, massive, saturated.	
						End of Test Pit: 4 m	Test pit located at base of gradual slope with spruce trees and shrubs. Easy digging with excavator. Pit walls stable. Groundwater infilling from peat layer. Refusal due to bedrock at 4.0 m depth.
5.0	387.0						

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.137

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-11

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 14 Jul 12

Location: Borrow Pit

Total Depth: 2.00 m

Date Completed: 14 Jul 12

Coordinates: 5,273,271 N, 430,811 E

Elevation: 392.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						BOULDERS (0 to 0.4) BOULDERS; MUCH SAND, fine to coarse; some peat; trace silt; trace cobbles, angular to subrounded; trace gravel, angular to subrounded; poorly graded, dark greyish brown/light orangeish brown, loose to compact, massive, dry to moist, with root inclusions.	
						SAND/SILT (0.4 to 0.7) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace cobbles, angular to subangular; trace boulders, angular to subangular; poorly graded, orangeish brown, loose to compact, massive, moist, with root inclusions.	
						TILL (0.7 to 2) GRAVEL, fine to coarse, angular to subangular; AND SAND, fine to coarse; some silt; trace cobbles, angular to subangular; some boulders, angular to subangular; trace clay; well graded, greyish brown, compact to dense, massive, moist, with trace root inclusions.	
1.0	391.0	GB	BU-1				
2.0	390.0					End of Test Pit: 2 m	Test pit located in jack pine stand on gradual slope with boulders at surface. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to berock at 2.0 m depth.

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.138

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-12

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 14 Jul 12

Location: Borrow Pit

Total Depth: 1.90 m

Date Completed: 14 Jul 12

Coordinates: 5,272,991 N, 430,912 E

Elevation: 409.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.3) PEAT; MANY boulders, angular to subangular; trace cobbles, angular to subrounded; trace sand, fine to coarse; trace gravel, fine to coarse, angular; dark greyish brown, spongy, fibrous, dry to moist, with root inclusions.	
		GB	BU-1			SAND/SILT (0.3 to 0.9) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; trace boulders, angular to subangular; poorly graded, orangish brown, loose to compact, massive, dry to moist, with root inclusions.	
1.0	408.0	GB	BU-2			TILL (0.9 to 1.9) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some silt; some cobbles, angular to subrounded; trace boulders, angular; trace clay; well graded, light greyish brown, compact to dense, massive, moist, some root inclusions.	
2.0	407.0					End of Test Pit: 1.9 m	Test pit located in jack pine stand with boulders at surface. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 1.9 m depth.

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.139

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-13

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 14 Jul 12

Location: Borrow Pit

Total Depth: 3.70 m

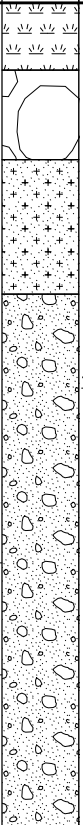
Date Completed: 14 Jul 12

Coordinates: 5,272,736 N, 430,834 E

Elevation: 394.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.3) PEAT; some boulders, angular to subangular; trace cobbles, angular to subangular; dark reddish brown/greyish brown, spongy, fibrous, dry to moist, with root inclusions.</p> <p>BOULDERS (0.3 to 0.7) BOULDERS, angular to subangular; MUCH COBBLES, angular to subangular; trace gravel, fine to coarse, angular to subangular; trace sand, fine to coarse; poorly graded, pink/grey, loose, massive, with some root inclusions.</p> <p>SAND/SILT (0.7 to 1.3) Silty; SAND, fine to coarse; some gravel, fine to coarse; angular to subangular; trace boulders, angular; trace cobbles, angular; well graded, brownish grey, compact to dense, massive, wet, with some root inclusions.</p> <p>TILL (1.3 to 3.7) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some silt; some cobbles, angular to subangular; some boulders, angular to subangular; trace clay; well graded, grey, dense to very dense, massive, wet to saturated.</p>	
1.0	393.0						
2.0	392.0						
3.0	391.0	GB	BU-1				
4.0	390.0					End of Test Pit: 3.7 m	Test pit located in jack pine stand with spruce trees at bottom of a slope. Some difficulty digging with excavator. Pit walls relatively stable in saturated zone. Grounwater infilling from 1.7 m. Refusal due to bedrock at 3.7 m depth.
5.0	389.0						

SAMPLING SYMBOLS:

 GRAB

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CÔTÉ GOLD PROJECT**

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.140

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-14

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 14 Jul 12

Location: Borrow Pit

Total Depth: 3.00 m

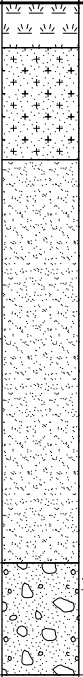
Date Completed: 14 Jul 12

Coordinates: 5,272,366 N, 430,768 E

Elevation: 391.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.2) PEAT; some boulders, angular to subangular; trace cobbles, angular to subrounded; dark greyish brown, spongy, fibrous, dry to moist, with root inclusions.</p> <p>SAND/SILT (0.2 to 0.7) Silty; SAND, fine to coarse; some boulders, angular to subangular; trace cobbles, angular to subrounded; trace gravel, angular to subrounded; poorly graded, light orangeish brown, loose to compact.</p> <p>SAND (0.7 to 2.5) SAND, fine to coarse; some boulders, angular to subangular; trace cobbles, angular to subrounded; trace gravel, fine to coarse, angular to subrounded; trace silt; poorly graded, light greyish brown, compact to dense, moist to wet, with trace root inclusions.</p> <p>TILL (2.5 to 3) Sandy, fine to coarse; GRAVEL, fine to coarse, angular to subangular; trace cobbles, angular to subangular; trace boulders, angular to subangular; trace silt; trace clay; well graded, light greyish brown, dense to very dense, saturated.</p>	
1.0	390.0						
2.0	389.0	GB	BU-1				
3.0	388.0	GB	BU-2				
4.0	387.0						Test pit located in a pine stand on a gradual slope.
5.0	386.0						Some difficulty digging with excavator. Pit walls stable. Groundwater infilling from 2.6 m. Refusal due to bedrock at 3.0 m depth.

SAMPLING SYMBOLS:

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Figure A1.141

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-15

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 15 Jul 12

Location: Borrow Pit

Total Depth: 4.30 m

Date Completed: 15 Jul 12

Coordinates: 5,271,849 N, 430,381 E

Elevation: 384.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.05) PEAT; dark brown, spongy, fibrous, moist to wet, with root and wood inclusions.</p> <p>SAND/SILT (0.05 to 1.5) Silty; SAND, fine to medium; trace boulders, subangular; poorly graded, orangeish/yellowish brown, loose, massive, moist, with root inclusions.</p>	
1.0	383.0						
2.0	382.0					<p>TILL (1.5 to 4.3) Silty; gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some cobbles, subangular to subrounded; trace boulders, subangular; trace clay; well graded, light brown to light greyish brown, compact to very dense, massive, moist to saturated.</p>	
3.0	381.0	GB	BU-1				
4.0	380.0						<p>Test pit located in previously cut area of spruce trees.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>Refusal due to suspected bedrock at 4.3 m depth.</p>
5.0	379.0					End of Test Pit: 4.3 m	

SAMPLING SYMBOLS:

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Figure A1.142

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-16

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 15 Jul 12

Location: Borrow Pit

Total Depth: 5.00 m

Date Completed: 15 Jul 12

Coordinates: 5,271,494 N, 429,955 E

Elevation: 396.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.15) PEAT; trace boulders, subangular; dark reddish brown, spongy, fibrous, moist, with root and wood inclusions.</p> <p>SILT/SAND (0.15 to 1.4) Sandy, fine to medium; SILT; trace clay; trace boulders, subangular; low plasticity, orangeish/yellowish brown; soft to firm, massive, moist, with trace root inclusions.</p>	
1.0	395.0						
2.0	394.0					<p>TILL (1.4 to 5) Gravelly, fine to coarse, angular to subrounded; silty; SAND, fine to coarse; trace cobbles, angular to subrounded; trace clay; trace boulders, subangular; well graded, light greyish brown, compact to dense, massive, moist to saturated.</p>	
3.0	393.0	GB	BU-1				
4.0	392.0						Test pit located at bottom of gradual slope between pine and spruce stands.
							Some difficulty digging with excavator.
							Pit walls fairly stable until saturated.
5.0	391.0					End of Test Pit: 5 m	Groundwater infilling from 2.7 m.
							End of test pit at 5.0 m depth due to infilling water and slough.

SAMPLING SYMBOLS:

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Figure A1.143

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-17

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jul 12

Location: Borrow Pit

Total Depth: 7.50 m

Date Completed: 16 Jul 12

Coordinates: 5,271,364 N, 430,509 E

Elevation: 381.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	380.0					<p>ORGANICS (0 to 0.1) PEAT; some sand, fine to coarse; some silt; dark greyish brown, spongy, fibrous, dry to moist, with root inclusions.</p> <p>SAND/SILT (0.1 to 2.5) Silty; SAND, fine to medium; trace gravel, fine to coarse, subangular to subrounded; trace cobbles, subangular to subrounded; poorly graded, orangeish brown/light greyish brown, loose to compact, stratified, moist to wet, with trace root inclusions.</p>	
2.0	379.0						
3.0	378.0					<p>SAND/SILT (2.5 to 7.5) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; trace cobbles, subangular to subrounded; trace clay; poorly graded, brownish grey, loose, massive, wet to saturated.</p>	
4.0	377.0						<p>Test pit located in cut area.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>Groundwater infilling quickly at 3.5 m.</p> <p>End of test pit at 7.5 m depth due to limit of excavator reach.</p>
5.0	376.0	GB	BU-1				
6.0	375.0						
7.0	374.0						
End of Test Pit: 7.5 m							

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Figure A1.144

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-18

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jul 12

Location: Borrow Pit

Total Depth: 4.00 m

Date Completed: 16 Jul 12

Coordinates: 5,271,119 N, 430,889 E

Elevation: 389.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						BOULDERS (0 to 1) BOULDERS, angular to subangular; some cobbles, angular to subangular; some peat; brown, loose, massive, dry to moist, with root inclusions.	
						SAND (1 to 1.8) SAND, fine to coarse; some silt; trace gravel, fine to coarse, angular to subrounded; trace cobbles, subangular; trace boulders, angular to subangular; poorly graded, dark grey, loose to compact, stratified, moist to wet, with some root inclusions.	
						SAND (1.8 to 4) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subrounded; some cobbles, subangular to subrounded; trace boulders, subangular; trace clay; well graded, brownish grey, compact to very dense, massive, wet to saturated.	
		GB	BU-1				
						End of Test Pit: 4 m	Test pit located in cut area of pine trees. Easy digging with excavator. Pit walls stable. Groundwater inflow from bedrock. Refusal due to bedrock at 4.0 m depth.
1.0	388.0						
2.0	387.0						
3.0	386.0						
4.0	385.0						
5.0	384.0						

SAMPLING SYMBOLS:

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Figure A1.145

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-19

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 15 Jul 12

Location: Borrow Pit

Total Depth: 2.00 m


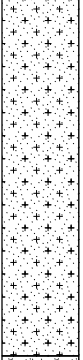


Date Completed: 15 Jul 12

Coordinates: 5,271,766 N, 429,215 E

Elevation: 390.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; some sand, fine to coarse; trace silt; trace boulders, angular; dark greyish brown, fibrous, moist, with root inclusions.	
						SAND/SILT (0.2 to 1) Silty; SAND, fine to medium; trace boulders, subangular; poorly graded, orangeish/greyish brown, loose to compact, moist, massive, with trace root inclusions.	
1.0	389.0					SAND (1 to 1.8) SAND, fine to medium; trace silt; trace boulders, subangular; poorly graded, light greyish brown, loose to compact, massive, moist, with trace root inclusions.	
2.0	388.0	GB	BU-1			SAND (1.8 to 2) SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; trace boulders, angular to subangular; trace cobbles, angular to subangular; trace silt; well graded, light greyish brown, compact to dense, massive, moist. End of Test Pit: 2 m	Test pit located in jack pine stand with fern coverage. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 2.0 m depth.

SAMPLING SYMBOLS:

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Figure A1.146

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-20

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 15 Jul 12

Location: Borrow Pit

Total Depth: 4.00 m

Date Completed: 15 Jul 12

Coordinates: 5,271,714 N, 429,013 E

Elevation: 382.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.05) Sandy, fine to medium; PEAT; trace silt; light brown, spongy, fibrous, dry to moist, with root inclusions.</p> <p>SAND (0.05 to 3.5) SAND, fine to medium; trace silt; trace gravel, fine to coarse, angular to subrounded; trace clay; poorly graded, light greyish brown, loose, stratified, moist, with trace root inclusions.</p>	
1.0	381.0						
2.0	380.0	GB	BU-1				
3.0	379.0						
4.0	378.0					<p>SAND (3.5 to 4) SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace boulders, subangular; trace silt; poorly graded, light greyish brown, loose to compact, massive, moist to wet.</p> <p>End of Test Pit: 4 m</p>	<p>Some difficulty digging with excavator.</p> <p>Pit walls unstable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 4.0 m depth.</p>
5.0	377.0						

SAMPLING SYMBOLS:

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Figure A1.147

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\KP LIB\GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-21

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 15 Jul 12

Location: Borrow Pit

Total Depth: 4.00 m

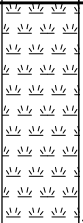
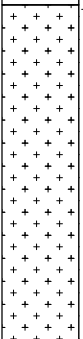
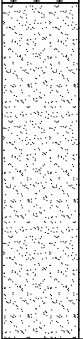
Date Completed: 15 Jul 12

Coordinates: 5,272,181 N, 429,335 E

Elevation: 382.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	381.0					ORGANICS (0 to 1) PEAT; dark brown, spongy to plastic, fibrous, wet to saturated, with root and wood inclusions.	
2.0	380.0					SILT (1 to 2.5) SILT; some sand, fine; some clay; low plasticity, blueish grey, firm to stiff, stratified, wet, with trace root inclusions.	
3.0	379.0					SAND (2.5 to 4) SAND, fine to coarse; some silt; trace gravel, fine to coarse, angular to subrounded; trace cobbles, subrounded; trace clay; light brown, well graded, loose, massive, saturated.	
4.0	378.0					End of Test Pit: 4 m	Test pit located in spruce swamp at base of steep bedrock outcrop. Some difficulty digging with excavator. Pit walls unstable. Groundwater inflowing from peat and sand layers. Refusal due to bedrock at 4.0 m depth.
5.0	377.0						

SAMPLING SYMBOLS:

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Figure A1.148

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-BP-23

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 12 Jul 12

Location: Borrow Pit

Total Depth: 6.30 m

Date Completed: 12 Jul 12

Coordinates: 5,274,205 N, 428,185 E

Elevation: 393.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	392.0					ORGANICS (0 to 1.5) PEAT; trace boulders, subangular to subrounded; dark reddish brown, spongy to plastic, fibrous, moist to wet, with root and wood inclusions.	
2.0	391.0					SAND (1.5 to 6.3) SAND, fine to coarse; some silt; some gravel, fine to coarse, subangular to subrounded; some cobbles, subangular to subrounded; trace boulders, subangular to subrounded; trace clay; well graded, grey, compact to very dense, massive, wet.	
4.0	389.0	GB	BU-1				
5.0	388.0						Test pit located at base of gradual slope between pine stand and spruce swamp.
6.0	387.0						Easy digging with excavator. Pit walls stable. No groundwater encountered.
							Refusal due to bedrock at 6.3 m depth.
						End of Test Pit: 6.3 m	

SAMPLING SYMBOLS:

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Figure A1.149

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-01

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 0.20 m


Date Completed: 16 Jun 12

Coordinates: 5,267,002 N, 429,276 E

Elevation: 387.70 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>SAND (0 to 0.2) SAND, fine to medium; trace gravel, fine to coarse, subangular; trace boulders, subangular; trace cobbles, subangular; trace silt; trace organics; well graded, light/dark brown and grey, massive, moist, with root inclusions.</p> <p>End of Test Pit: 0.2 m</p>	<p>Test pit location is flat. Refusal due to bedrock at 0.2 m depth. No groundwater encountered. Bedrock outcrops all around.</p>

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NB101-497/1

Ref. No.
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Rev.
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Figure A1.1

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I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-02

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 1.20 m

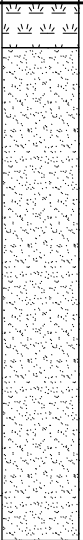
Date Completed: 16 Jun 12

Coordinates: 5,267,357 N, 429,436 E

Elevation: 398.60 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.1) PEAT; dark brown, spongy, fibrous, with root inclusions.</p> <p>SAND (0.1 to 1.2) SAND, fine to coarse; some gravel, fine to coarse, subangular to subrounded; trace silt; trace cobbles, subangular to subrounded; trace boulders, subangular; well graded, loose to compact, massive, wet.</p>	
	398.0						
	1.0	GB	BU-1				
						End of Test Pit: 1.2 m	
	397.0						
	2.0						Test pit located in spruce/white birch/poplar covered area. Some moss on ground. Bedrock outcrops close by.
							Easy to dig with excavator.
	396.0						Refusal due to bedrock at 1.2 m depth.

SAMPLING SYMBOLS:

 GRAB

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.2

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-03

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 6.00 m



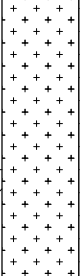

Date Completed: 16 Jun 12

Coordinates: 5,267,414 N, 429,489 E

Elevation: 389.20 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
389.0						BOULDERS (0 to 1) BOULDERS, subangular; MUCH SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace organics; well graded, dark brown to light grey, loose to compact, massive.	
1.0	388.0					SAND (1 to 2.5) SAND, coarse; some gravel, fine to coarse, angular to subangular; trace cobbles, angular to subangular; well graded, dark grey, compact, massive, saturated.	
2.0	387.0	G B	BU-1				
3.0	386.0	G B	BU-2			SILT (2.5 to 4) SILT; trace sand, fine; trace clay; trace gravel, fine to coarse, subangular; trace cobbles, subangular; well graded, greyish brown, compact to dense, stratified, saturated.	
4.0	385.0					BOULDERS/COBBLES (4 to 6) BOULDERS; MUCH COBBLES; some silt; trace clay; trace sand, fine to coarse; well graded, grey, dense, massive, saturated.	Test pit located in area of tag alders. Some boulders/cobbles visible at surface. Location not generally pit rim representative. Difficult to dig past 4.0 m depth due to boulders. Pit walls unstable due to sloughing of soil. Groundwater infilling bottom of pit rapidly. End of test pit at 6.0 m due to slough.
5.0	384.0						
6.0	383.0					End of Test Pit: 6 m	

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.3

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-04

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 0.90 m

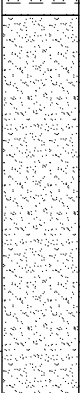
Date Completed: 16 Jun 12

Coordinates: 5,267,438 N, 429,680 E

Elevation: 391.80 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	391.0	GB	BU-1			<p>ORGANICS (0 to 0.05) PEAT; orangeish brown, spongy, fibrous, moist, with root inclusions.</p> <p>SAND (0.05 to 0.9) SAND, fine to coarse; some silt; trace gravel, fine to coarse, subangular to angular; trace cobbles, subangular; trace boulders, subangular; well graded, orangeish brown to beige, loose, massive, moist, with root inclusions. Color transitions from orangeish brown to beige as depth increases.</p>	
	1.0					End of Test Pit: 0.9 m	
	390.0						Test pit located in stand of mature birch/spruce/poplar trees.
	2.0						Some boulders/cobbles visible at surface.
							Exposed bedrock close by.
	389.0						Refusal due to bedrock at 0.9 m depth.

SAMPLING SYMBOLS:

GB GRAB

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Figure A1.4

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-05

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 15 Jun 12

Location: Pit Overburden

Total Depth: 7.00 m

Date Completed: 15 Jun 12

Coordinates: 5,267,439 N, 429,750 E

Elevation: 382.30 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
382.0						ORGANICS (0 to 0.3) PEAT; dark brown, spongy, fibrous, saturated, with root inclusions.	
1.0						ORGANICS (0.3 to 0.5) ORGANIC SILT; light brown/grey, firm, amorphous, wet.	
381.0						SAND/SILT (0.5 to 3) Silty; SAND, fine to medium; poorly graded, light brown, compact to dense, massive, wet.	
2.0							
380.0		GB	BU-1				
3.0						SILT (3 to 7) SILT; some clay; trace sand, fine; low plasticity, blueish grey, firm to very stiff, varved, saturated.	
379.0							
4.0		GB	BU-2				
378.0							
5.0							Test pit located in previously cleared area for drilling.
377.0							Spruce and white birch trees close by.
6.0							Easy to dig with excavator.
376.0							Pit walls unstable.
7.0							Groundwater infilling quickly at base of organic layer.
375.0							End of test pit at 7 m depth due to max reach of excavator.
						End of Test Pit: 7 m	Bedrock not confirmed.

SAMPLING SYMBOLS:

GB GRAB

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Figure A1.5

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-06

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 15 Jun 12

Location: Pit Overburden

Total Depth: 5.00 m

Date Completed: 15 Jun 12

Coordinates: 5,267,391 N, 429,873 E

Elevation: 381.80 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.1) PEAT AND ORGANIC SILT; plastic, dark brown, fibrous, with root inclusions.</p> <p>SILT/SAND (0.1 to 5) Sandy, fine; SILT; non-plastic, blueish grey, soft to stiff, stratified, saturated.</p>	
381.0							
1.0							
380.0							
2.0							
379.0		GB	BU-1				
3.0							
378.0							
4.0							Test pit located in low wet area of spruce stand with some white birch.
377.0							Easy digging with excavator.
5.0							Pit walls unstable.
							Groundwater infiltrating from below organics rapidly.
						End of Test Pit: 5 m	Refusal due to bedrock at 5.0 m depth.
376.0							

SAMPLING SYMBOLS:

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Figure A1.6

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-07

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 3.30 m


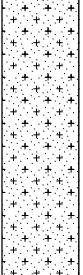
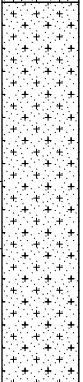
Date Completed: 16 Jun 12

Coordinates: 5,266,904 N, 430,322 E

Elevation: 382.20 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
382.0						ORGANICS (0 to 0.3) ORGANICS; MUCH COBBLES, subangular to subrounded; dark brown, spongy, fibrous, with root inclusions.	
1.0						SAND/SILT (0.3 to 1.6) Silty; SAND, fine to coarse; some gravel, fine to coarse, subangular; trace cobbles, subangular; well graded, light grey, loose to compact, massive, wet.	
2.0						SAND/SILT (1.6 to 3.3) SAND, fine to coarse; AND SILT; trace gravel, fine to coarse, subangular; trace cobbles; trace boulders, subangular; trace clay; well graded, light grey, loose to compact, massive, wet to saturated.	
3.0		GB	BU-1			End of Test Pit: 3.3 m	
379.0							
4.0							Test pit located in area with cedar/spruce/white birch trees. Cote lake is 40 m north of test pit. Easy digging with excavator. Pit walls unstable. Groundwater infilling from organic layer.
5.0							Test pit ended due to excessive sloughing at 3.3 m depth.
377.0							

SAMPLING SYMBOLS:

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Figure A1.7

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-08

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 15 Jun 12

Location: Pit Overburden

Total Depth: 5.50 m

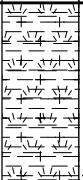
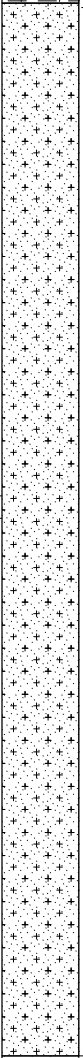
Date Completed: 15 Jun 12

Coordinates: 5,266,656 N, 430,198 E

Elevation: 384.70 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	384.0					ORGANICS (0 to 0.8) ORGANIC SILT; trace sand, fine; plastic, dark brown, fibrous, saturated, with root inclusions.	
1.0						SAND/SILT (0.8 to 5.5) Silty SAND, fine to coarse; some gravel, fine to coarse, subangular; trace cobbles, subangular; well graded, loose to compact, massive, saturated.	
2.0	383.0						
3.0	382.0	GB	BU-1				
4.0	381.0						
5.0	380.0						Test pit located in area surrounded by spruce with some white birch trees.
							Large bedrock outcrop south of test pit location.
							Standing water at surface.
							Surface water infiltrating from base of organic layer.
							Groundwater infiltrating from coarse sand.
							Refusal due to bedrock at 5.5 m depth.
	379.0					End of Test Pit: 5.5 m	

SAMPLING SYMBOLS:

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Figure A1.8

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-09

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jun 12

Location: Pit Overburden

Total Depth: 6.50 m


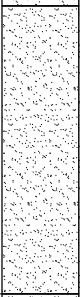
Date Completed: 17 Jun 12

Coordinates: 5,266,143 N, 429,812 E

Elevation: 386.90 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	386.0	GB	BU-1			BOULDERS (0 to 0.5) BOULDERS, subangular; MANY cobbles, subangular to subrounded; trace sand, fine to coarse; well graded, brown, loose to dense, massive, moist.	
1.0						SAND (0.5 to 1.5) SAND, fine to coarse; some gravel, fine to coarse, subangular to subrounded; trace cobbles, subangular to subrounded; well graded, grey to light brown, massive, moist.	
2.0	385.0					SAND (1.5 to 3) SAND, fine; trace silt; poorly graded, light brown, compact to dense, massive, saturated.	
3.0	384.0	GB	BU-2			SAND/SILT (3 to 6.5) Silty; SAND, fine to coarse; trace gravel, fine, subangular to subrounded; trace boulders, subangular to subrounded; trace cobbles, subangular to subrounded; poorly graded, light brown, compact to very dense, saturated.	<p>Test pit located in jack pine plantation with a few poplar trees.</p> <p>Some boulders visible at surface</p> <p>Pit walls stable until 4.0 m then unstable.</p> <p>Stop excavation at 6.5 m depth due to slough and water inflow.</p> <p>Bedrock not encountered.</p>
4.0	383.0						
5.0	382.0						
6.0	381.0						
	380.0					End of Test Pit: 6.5 m	

SAMPLING SYMBOLS:

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Figure A1.9

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB\GLB - TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-10

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jun 12

Location: Pit Overburden

Total Depth: 4.00 m

Date Completed: 17 Jun 12

Coordinates: 5,266,058 N, 429,472 E

Elevation: 385.90 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	385.0					ORGANICS (0 to 1) PEAT; MANY BOULDERS, angular to subangular; some silt; trace cobbles, angular to subangular; spongy to firm, fibrous, saturated.	
2.0	384.0					SAND/SILT (1 to 4) Silty; SAND, fine to coarse; trace gravel, fine rounded; poorly graded, blueish grey, compact to very dense, stratified, saturated.	
3.0	383.0						
4.0	382.0	GB	BU-1			End of Test Pit: 4 m	Test pit located in organic swamp. Some boulders visible at surface. Difficulty digging past 3.0 m depth due to infilling water. Standing water at surface Stop excavation at 4.0 m due to excessive water in test pit.
5.0	381.0						
	380.0						

SAMPLING SYMBOLS:

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Figure A1.10

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-11

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 2.75 m

Date Completed: 16 Jun 12

Coordinates: 5,266,435 N, 428,900 E

Elevation: 390.60 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						BOULDERS (0 to 0.5) BOULDERS; some silt; trace sand; trace cobbles; trace peat; poorly graded, dark brown, dense, massive, saturated.	
	390.0					SAND/SILT (0.5 to 1.5) Silty; SAND, fine; poorly graded, light brown/grey, loose to compact, massive, saturated.	
1.0		GB	BU-1				
	389.0					BOULDERS (1.5 to 2.75) BOULDERS, subangular; some silt; some sand, fine; trace cobbles, subangular; light brown, very dense, massive, saturated.	
2.0							Test pit located in low area between two valleys. Area surrounded by spruce and white birch trees. Difficulty digging due to boulders and sloughing and infilling water. Groundwater at surface.
	388.0						Refusal due to suspected bedrock at 2.75 m depth. However bedrock depth cannot be confirmed due to water.
						End of Test Pit: 2.75 m	

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.11

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-12

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 0.10 m


Date Completed: 16 Jun 12

Coordinates: 5,266,634 N, 429,056 E

Elevation: 392.10 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	392.0					<p>ORGANICS (0 to 0.1) PEAT; some silt; trace sand, fine; brown, spongy, fibrous, with root inclusions.</p> <p>End of Test Pit: 0.1 m</p>	
	391.0						
	390.0						<p>Test pit located in jack pine stand beside road.</p> <p>Bedrock outcrops surround the test pit location.</p> <p>Refusal due to bedrock at 0.1 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.12

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I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-13

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 15 Jun 12

Location: Pit Overburden

Total Depth: 7.20 m

Date Completed: 15 Jun 12

Coordinates: 5,266,689 N, 430,279 E

Elevation: 388.20 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
0.0	388.0					ORGANICS (0 to 0.2) PEAT; some silt; trace sand, fine; dark brown to orangeish brown, spongy, fibrous, moist, with root inclusions to 0.5 m.	
0.2						SAND (0.2 to 2) SAND, fine to coarse; some gravel, fine to coarse, subangular to subrounded; some cobbles; trace silt; trace boulders, angular to subangular; well graded, orangeish brown to light grey, compact, massive, moist to wet.	
2.0						SAND/SILT (2 to 7.2) Silty; SAND, fine to coarse; some gravel, fine to coarse, subangular to subrounded; trace cobbles; trace boulders, subrounded; well graded, light grey, compact to very dense, massive, moist to saturated.	
6.0	382.0	GB	BU-1				Test pit located in area with mature poplar and intermediate spruce trees with moss covering ground. Relatively easy digging with excavator. Pit walls unstable from 2 m. Groundwater infilling quickly at bottom of test pit. Limits of excavator reach at 7.2 m depth.
7.2	381.0				▼	End of Test Pit: 7.2 m	

SAMPLING SYMBOLS:

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Figure A1.13

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-14

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 15 Jun 12

Location: Pit Overburden

Total Depth: 7.00 m

Date Completed: 15 Jun 12

Coordinates: 5,266,790 N, 430,364 E

Elevation: 387.50 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	387.0					ORGANICS (0 to 0.1) PEAT; some sand, fine; spongy, fibrous, pink brown/light grey, moist, with root inclusions.	
1.0						SAND (0.1 to 1.3) SAND, fine to coarse; some silt; trace gravel, fine to coarse, subangular to subrounded; trace boulders, subangular; trace cobbles, subrounded; well graded, orangeish brown to light grey, loose to compact, massive, moist, with root inclusions to 0.8 m.	
2.0						SAND/SILT (1.3 to 7) Silty; SAND, fine to coarse; trace gravel, fine to coarse, subangular; trace cobbles, subangular to subrounded; trace boulders, subangular; trace clay; well graded, light grey, loose to dense, massive, moist to saturated.	
3.0							
4.0							
5.0							
6.0		GB	BU-1				Test pit located in flat area surrounded by spruce and birch trees.
7.0							Some boulders visible at surface ranging in size from 0.5 - 2.0 m.
							Relatively easy digging with excavator.
							Pit walls unstable until 1.3 m relatively stable below.
							Soil becomes saturated at 5-6 m.
							Test pit ended due to limits of excavator.
						End of Test Pit: 7 m	

SAMPLING SYMBOLS:

GB GRAB

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.14

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-15

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 1.80 m

Date Completed: 16 Jun 12

Coordinates: 5,267,119 N, 429,233 E

Elevation: 385.90 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	385.0					<p>ORGANICS (0 to 0.2) PEAT; dark brown, spongy, fibrous, saturated, with root inclusions.</p> <p>ORGANICS (0.2 to 0.5) ORGANIC SILT; plastic, dark brown, firm, saturated.</p> <p>SAND (0.5 to 1.8) SAND, fine to coarse; some gravel, fine to coarse, subangular; some cobbles, subangular; trace boulders, subrounded; well graded, light brown, loose, massive, saturated.</p>	
	384.0					End of Test Pit: 1.8 m	<p>Test pit located in area with spruce birch and balsam trees with grasses and moss.</p> <p>Standing water at surface.</p> <p>Difficult to excavate due to slough and water.</p> <p>Refusal due to suspected bedrock at 1.8 m depth. However bedrock depth cannot be confirmed through water.</p>
	383.0						

SAMPLING SYMBOLS:

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Figure A1.15

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-16

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 0.60 m

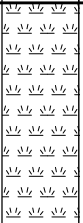

Date Completed: 16 Jun 12

Coordinates: 5,267,230 N, 429,333 E

Elevation: 396.60 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.5) PEAT; dark brown, spongy, fibrous, with root inclusions.	
	396.6	GB	BU-1			SAND (0.5 to 0.6) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace cobbles, angular to subangular; trace silt; well graded, yellowish brown, loose to compact, massive, moist, with root inclusions. End of Test Pit: 0.6 m	
1.0							
395.0							
2.0							Test pit located in area with spruce and birch trees. Easy digging with excavator. Refusal due to bedrock at 0.6 m depth.
394.0							

SAMPLING SYMBOLS:

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Figure A1.16

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-17

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 0.25 m

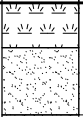
Date Completed: 16 Jun 12

Coordinates: 5,267,309 N, 429,364 E

Elevation: 397.80 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.1) PEAT; spongy, fibrous, wet, with root inclusions.</p> <p>SAND (0.1 to 0.25) SAND, fine to coarse; trace gravel, fine to coarse, subangular; trace cobbles, subangular; well graded, yellowish/orangeish brown, loose, massive, moist, with root inclusions. End of Test Pit: 0.25 m</p>	<p>Test pit located in area with mature poplar and immature spruce trees.</p> <p>Bedrock outcrops surround the test pit area.</p> <p>Easy digging with the excavator.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 0.25 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.17

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-18

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 1.00 m

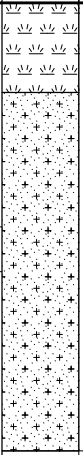
Date Completed: 16 Jun 12

Coordinates: 5,266,778 N, 429,159 E

Elevation: 389.60 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	389.0	GB	BU-1			<p>ORGANICS (0 to 0.2) PEAT; some silt; brown, spongy, fibrous, moist, with root inclusions.</p> <p>SAND/SILT (0.2 to 1) Silty; SAND, fine; trace gravel, fine to coarse, subangular; trace cobbles, subangular; poorly graded, light brown, loose to compact, massive, moist, with root inclusions.</p>	
1.0						End of Test Pit: 1 m	
388.0							
2.0							
387.0							

Test pit located in a sloped area with spruce and white birch trees with limited underbrush.

Easy digging with excavator.

No groundwater encountered.

Refusal due to bedrock at 1.0 m depth.

SAMPLING SYMBOLS:

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Figure A1.18

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-19

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jun 12

Location: Pit Overburden

Total Depth: 4.00 m

Date Completed: 16 Jun 12

Coordinates: 5,266,264 N, 428,984 E

Elevation: 387.50 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	387.0					ORGANICS (0 to 0.5) PEAT; some boulders, subangular; some cobbles, subangular; trace silt; dark brown, spongy, fibrous, wet, with root inclusions.	
1.0	386.0	GB	BU-1			SILT/SAND (0.5 to 2) Sandy, fine; SILT; low plasticity, dark grey, stiff to very stiff, wet.	
2.0	385.0					SAND/SILT (2 to 4) SILT; AND SAND, fine to coarse; trace gravel, fine to coarse, subangular to subrounded; trace cobbles, subrounded; well graded, brown, compact to dense, saturated.	
3.0	384.0	GB	BU-2				
4.0	383.0					End of Test Pit: 4 m	Test pit located at edge of Clam lake. Area flooded seasonally. Some bedrock outcrops at waters edge. Relatively easy digging with excavator. Pit walls stable until 3.0 m. Groundwater infilling at 3.0 m. Refusal at 4.0 m depth (suspect bedrock).
5.0	382.0						

SAMPLING SYMBOLS:

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Figure A1.19

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-20

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jun 12

Location: Pit Overburden

Total Depth: 3.20 m

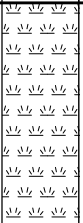
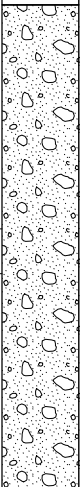
Date Completed: 17 Jun 12

Coordinates: 5,266,193 N, 429,044 E

Elevation: 389.90 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	389.0					ORGANICS (0 to 1) PEAT; MUCH BOULDERS, angular to subangular; some sand, fine; trace silt; trace gravel, fine to coarse; dark brown, firm, fibrous, moist, with root inclusions.	
	388.0	GB	BU-1			TILL (1 to 3.2) SAND, fine to coarse; AND GRAVEL, fine to coarse, angular to subangular; some silt; trace boulders, angular; trace cobbles, angular to subangular; trace clay; well graded, light grey, compact to dense, massive, moist to saturated.	
	387.0					End of Test Pit: 3.2 m	
	386.0						Test pit located in flat area surrounded with jack pine and white birch trees.
	385.0						Easy digging with excavator.
	384.0						Pit walls stable.
							Groundwater infilling at bottom of pit.
							Refusal due to bedrock at 3.2 m depth.

SAMPLING SYMBOLS:

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Figure A1.20

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-21

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jun 12

Location: Pit Overburden

Total Depth: 4.00 m

Date Completed: 17 Jun 12

Coordinates: 5,266,004 N, 429,125 E

Elevation: 388.70 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
388.0						ORGANICS (0 to 4) PEAT; some silt; trace sand, fine; spongy, fibrous, with root and wood inclusions.	
387.0							
386.0							
385.0							
384.0						SAND/SILT (4 to 4.3) Silty; SAND, fine; poorly graded, blueish grey, compact to dense, massive, saturated. End of Test Pit: 4 m	Unstable pit walls. No groundwater encountered. Test pit ended at 4.0 m due to excavator sinking in peat.
383.0							

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Figure A1.21

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-22

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jun 12

Location: Pit Overburden

Total Depth: 4.00 m

Date Completed: 17 Jun 12

Coordinates: 5,266,009 N, 429,258 E

Elevation: 389.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	388.0					ORGANICS (0 to 2) PEAT; some silt; trace sand; trace boulders, subangular; spongy to firm, fibrous to amorphous, with wood and root inclusions.	
2.0	387.0					SILT (2 to 4) SILT; some clay, trace sand, fine; non-plastic, blueish grey, compact to very dense; stratified, moist to saturated.	
3.0	386.0	GB	BU-1				
4.0	385.0					End of Test Pit: 4 m	Test pit located in flat area. Difficult to excavate after 3.0 m. Pit walls stable. Groundwater infilling quickly. Refusal due to boulders at 4.0 m depth.
5.0	384.0						

SAMPLING SYMBOLS:

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Figure A1.22

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-24

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jun 12

Location: Pit Overburden

Total Depth: 1.20 m


Date Completed: 17 Jun 12

Coordinates: 5,266,046 N, 429,751 E

Elevation: 389.90 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	389.0	GB	BU-1			<p>ORGANICS (0 to 0.05) PEAT; dark brown, spongy, fibrous, with root inclusions.</p> <p>SAND (0.05 to 1.2) SAND, fine; some gravel, fine to coarse, subangular to subrounded; trace cobbles, subangular; trace boulders, subangular to subrounded; well graded, orangeish to light brown, loose to compact, massive, moist.</p>	
						End of Test Pit: 1.2 m	<p>Test pit located in jack pine stand with some poplar trees.</p> <p>Bedrock outcrops are close to test pit location.</p> <p>Easy digging with excavator.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.2 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.23

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-25

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jun 12

Location: Pit Overburden

Total Depth: 6.50 m

Date Completed: 17 Jun 12

Coordinates: 5,266,224 N, 429,908 E

Elevation: 388.30 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
388.0						ORGANICS (0 to 0.1) PEAT; dark brown, spongy, fibrous, moist.	
1.0						SAND (0.1 to 1.5) SAND, fine; some silt; some boulders, subrounded; trace gravel, fine to coarse, subrounded; trace cobbles, subrounded; well graded, lighth brown, loose to compact, moist.	
2.0						SAND (1.5 to 6.5) SAND, fine to coarse; some gravel, fine to coarse, subangular to subrounded; trace boulders, subangular to subrounded; trace cobbles, subangular to subrounded; trace silt; well graded, light brown to light grey, compact to very dense, moist to wet.	
3.0							
385.0							
384.0		GB	BU-1				
5.0							Test pit located in relatively flat area.
383.0							Pit walls are stable.
6.0							End of test pit at 6.5 m depth due to slough.
382.0							Could not confirm bedrock.
						End of Test Pit: 6.5 m	

SAMPLING SYMBOLS:

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Figure A1.24

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-26

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 20 Jun 12

Location: Pit Overburden

Total Depth: 1.00 m

Date Completed: 20 Jun 12

Coordinates: 5,267,436 N, 429,530 E

Elevation: 393.60 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.05) PEAT; trace boulders, subangular to subrounded; trace sand, fine; dark brown, spongy, fibrous, moist, with root inclusions.</p> <p>ORGANICS (0.05 to 0.25) ORGANIC SILT; trace boulders, subangular to subrounded; some sand, fine; low plasticity, orangeish brown, soft to firm, moist, with root inclusions.</p> <p>SAND (0.25 to 1) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; some silt; trace cobbles; trace boulders, angular to subangular; well graded, light brown, compact to dense, massive, moist, with root inclusions.</p>	
393.0		GB	BU-1				
1.0						End of Test Pit: 1 m	
392.0							
2.0							
391.0							

Trest pit located in area with spruce and white birch trees.
Exposed bedrock close by.
Easy digging with excavator.
Pit walls stable.
No groundwater encountered.
Refusal due to bedrock at 1.0 m depth.

SAMPLING SYMBOLS:

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Figure A1.25

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-27

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 20 Jun 12

Location: Pit Overburden

Total Depth: 3.70 m

Date Completed: 20 Jun 12

Coordinates: 5,267,504 N, 429,404 E

Elevation: 387.50 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
387.0						ORGANICS (0 to 1.3) PEAT; AND ORGANIC SILT; trace boulders; dark/light brown, spongy to plastic, fibrous, saturated, with root and wood inclusions.	
386.0		GB	BU-1			SAND/SILT (1.3 to 3.7) Silty; SAND, fine; trace boulders, angular; trace cobbles, angular to subangular; trace clay; poorly graded, blueish grey, compact to dense, stratified, saturated.	
385.0							
384.0		GB	BU-2				
						End of Test Pit: 3.7 m	
383.0							Test pit located in area with spruce and white birch trees with some alders. Close to a very small creek.
							Groundwater infilling from 0.1 m below surface.
							Refusal due to bedrock at 3.7 m depth.
382.0							

SAMPLING SYMBOLS:

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Figure A1.26

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-28

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 20 Jun 12

Location: Pit Overburden

Total Depth: 2.30 m

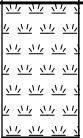
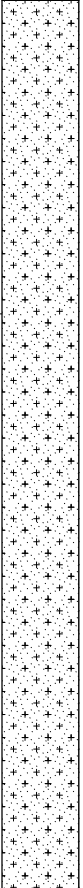
Date Completed: 20 Jun 12

Coordinates: 5,267,412 N, 430,178 E

Elevation: 381.60 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.3) PEAT; AND ORGANIC SILT; dark brown, spongy to plastic, fibrous, moist to wet, with root and wood inclusions.	
	381.0					SAND/SILT (0.3 to 2.3) Silty; SAND, fine to medium; trace clay; poorly graded, brownish grey to blueish grey, compact to dense, stratified, wet to saturated. Density increases with depth.	
1.0							
	380.0	GB	BU-1				
2.0							
	379.0					End of Test Pit: 2.3 m	Test pit located on a small peninsula into Cote Lake. Easy digging with excavator. Pit walls stable. Groundwater slightly infilling at bedrock. Refusal due to bedrock at 2.3 m depth.

SAMPLING SYMBOLS:

 GRAB

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.27

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-29

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 21 Jun 12

Location: Pit Overburden

Total Depth: 5.00 m

Date Completed: 21 Jun 12

Coordinates: 5,267,199 N , 429,145 E

Elevation: 386.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	385.0					ORGANICS (0 to 3.5) PEAT; AND ORGANIC SILT; brown to light brown, spongy to plastic, fibrous, wet to saturated, with root and wood inclusions	
2.0	384.0						
3.0	383.0						
4.0	382.0	GB	BU-1			ORGANICS (3.5 to 3.8) ORGANIC SILT; plastic, greenish grey, friable, small yellow and white shell inclusions, green weed inclusions. SILT/SAND (3.8 to 5) Sandy, fine to coarse; SILT; trace clay; trace gravel; well graded, blueish grey, firm to very stiff, stratified, saturated. Lenses of coarse sand.	Test pit located in area with spruce and birch trees and moss cover on ground. Difficulty excavating at 4.0 m. Pit walls become unstable at 4.0 m. Groundwater slowly infilling from organic layer.
5.0	381.0					End of Test Pit: 5 m	End of pit at 5.0 m depth due to cave in.

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.28

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-30

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 21 Jun 12

Location: Pit Overburden

Total Depth: 4.50 m

Date Completed: 21 Jun 12

Coordinates: 5,266,442 N, 428,862 E

Elevation: 394.70 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.25) PEAT; AND ORGANIC SILT; trace sand, fine to coarse; trace boulders, angular to subangular; trace gravel, fine to coarse; orangeish brown, spongy to plastic, fibrous, with root inclusions.</p> <p>TILL (0.25 to 4.5) Sandy, fine to coarse; GRAVEL, fine to coarse, angular; trace silt; trace cobbles, angular; trace boulders, angular; well graded, light brown to grey, compact to very dense, wet to saturated. Grain size becomes larger with depth.</p>	
	394.0						
1.0							
	393.0						
2.0		GB	BU-1				
	392.0						
3.0							
	391.0						
4.0		GB	BU-2				
	390.0						
5.0							
	389.0						
End of Test Pit: 4.5 m							<p>Test pit located between two steep bedrock outcrops in a large red pine stand.</p> <p>Some difficulty excavating due to water inflow and hard digging.</p> <p>Measured watertable at 3.0 m.</p> <p>End of hole at 4.5 m depth due to excessive water.</p>

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.29

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-31

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 21 Jun 12

Location: Pit Overburden

Total Depth: 4.00 m

Date Completed: 21 Jun 12

Coordinates: 5,266,399 N, 428,879 E

Elevation: 395.40 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	395.0					ORGANICS (0 to 0.05) PEAT; trace boulders, angular; dark brown/grey, spongy, fibrous, moist, with root and wood inclusions.	
	1.0					SILT/SAND (0.05 to 0.75) Sandy, fine; SILT; trace boulders, angular to subangular; trace cobbles, angular to subangular; low plasticity, orangeish brown to light brown, stiff, massive, moist, with root inclusions.	
	394.0					TILL (0.75 to 3) Gravelly, fine to coarse, subangular to angular; SAND, fine to coarse; some silt; trace cobbles, angular to subangular; trace boulders; angular to subangular; well graded, light brown/orangeish brown/grey, dense to very dense, moist.	
	2.0						
	393.0						
	3.0						
	392.0	GB	BU-1			TILL (3 to 4) SAND; AND GRAVEL, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; trace boulders, angular to subrounded; trace silt; well graded, greyish brown, very dense, wet to saturated.	
	4.0					End of Test Pit: 4 m	Test pit located in very small valley with red pine and spruce trees. Easy digging with excavator. Pit walls stable. Groundwater infilling quickly at 4.0 m. Refusal due to bedrock at 4.0 m depth.
	391.0						
	5.0						
	390.0						

SAMPLING SYMBOLS:

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Figure A1.30

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-32

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 22 Jun 12

Location: Pit Overburden

Total Depth: 4.50 m

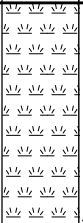
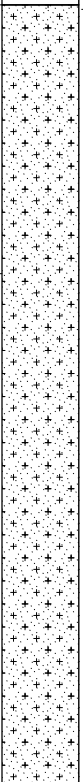
Date Completed: 22 Jun 12

Coordinates: 5,265,904 N, 429,491 E

Elevation: 385.80 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	385.0					ORGANICS (0 to 1) PEAT; trace boulders, subangular; trace cobbles, subangular; dark brown, spongy to plastic, fibrous, wet to saturated, with root and wood inclusions.	
	384.0	GB	BU-1			SAND/SILT (1 to 4.5) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace boulders, subangular; trace cobbles, subangular; well graded, grey, loose to compact, massive, wet to saturated.	
	383.0						
	382.0						
	381.0						
	380.0						
						End of Test Pit: 4.5 m	<p>Test pit located in flat area with alders and stunted spruce trees moss and grasses.</p> <p>Pit walls stable until sand begins to flow at 3.5 m.</p> <p>Groundwater infilling from peat layer.</p> <p>End of pit at 4.5 m depth due to flowing sand.</p>

SAMPLING SYMBOLS:

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Ref. No.
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Figure A1.31

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-34

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 22 Jun 12

Location: Pit Overburden

Total Depth: 5.00 m

Date Completed: 22 Jun 12

Coordinates: 5,265,955 N, 429,630 E

Elevation: 385.80 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	385.0					ORGANICS (0 to 1.7) PEAT; trace boulders, angular; dark reddish brown, spongy to pasty, fibrous, wet to saturated, with root and wood inclusions.	
	384.0	GB	BU-1			SAND/SILT (1.7 to 2.7) Gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; AND SILT; trace boulders, angular to subrounded; trace cobbles, angular to subrounded; well graded, blueish grey, loose to compact, massive, wet.	
	383.0					SAND/SILT (2.7 to 5) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace cobbles, angular to subrounded; trace boulders, angular to subrounded; trace clay; well graded, greyish brown, compact to loose, massive, saturated.	
	382.0	GB	BU-2				Test pit located in flat area with alders cedar and spruce trees with grasses and moss.
	381.0						Easy digging with excavator until 5.0 m.
	380.0					End of Test Pit: 5 m	Pit walls became unstable at 3.0 m sand fully saturated.
							Groundwater infilling from peat layer and bottom of pit.
							End of pit at 5.0 m due to cave in.

SAMPLING SYMBOLS:

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Ref. No.
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Rev.
0

Figure A1.32

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-35

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 22 Jun 12

Location: Pit Overburden

Total Depth: 3.50 m


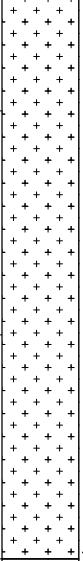
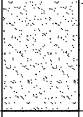
Date Completed: 22 Jun 12

Coordinates: 5,266,319 N, 429,917 E

Elevation: 382.50 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	382.0					ORGANICS (0 to 0.5) PEAT; dark brown, spongy, fibrous, moist to wet.	
1.0	381.0	GB	BU-1			SILT (0.5 to 3) SILT; trace sand, fine; trace clay; non-plastic, light grey, loose to compact, massive, wet to saturated.	
2.0	380.0						
3.0	379.0	GB	BU-2			SAND (3 to 3.5) SAND, fine to coarse; trace silt; trace clay; poorly graded, brown, loose, massive, saturated.	
	379.0					End of Test Pit: 3.5 m	
4.0	378.0						Test pit located in spruce stand with grasses and moss at bottom of slope. Pit walls collapse at 3.0 m. Groundwater infilling quickly at 3.0 m. End of hole at 3.5 m depth due to flowing sand.
5.0	377.0						

SAMPLING SYMBOLS:

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Figure A1.33

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-36

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 22 Jun 12

Location: Pit Overburden

Total Depth: 1.70 m


Date Completed: 22 Jun 12

Coordinates: 5,265,860 N, 429,153 E

Elevation: 390.70 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	390.0					<p>ORGANICS (0 to 0.1) PEAT; trace sand, fine; trace silt; trace boulders, angular to subangular; trace cobbles, angular to subangular; dark brown, spongy, fibrous, moist, with root inclusions.</p> <p>SAND (0.1 to 1.7) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subangular; trace boulders, angular to subangular; trace cobbles, angular to subangular; well graded, orangeish brown to light brown, loose to compact, moist, with root inclusions. Particle size increases with depth.</p>	
	389.0	GB	BU-1			End of Test Pit: 1.7 m	
	388.0						<p>Test pit located in area of mature red pine balsam and white birch trees.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.7 m depth.</p>

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.34

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-37

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 22 Jun 12

Location: Pit Overburden

Total Depth: 4.60 m

Date Completed: 22 Jun 12

Coordinates: 5,265,860 N, 429,308 E

Elevation: 387.60 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	387.0					ORGANICS (0 to 0.1) PEAT; some silt; trace boulders, angular to subangular; trace cobbles, angular to subangular; trace sand, fine; dark reddish brown, spongy, fibrous, moist, with root and wood inclusions.	
	386.0	GB	BU-1			ORGANICS (0.1 to 0.3) ORGANIC SILT; some sand, fine; trace boulders, angular to subangular; trace cobbles, angular to subangular; plastic, dark to light brown, fibrous, wet, with root inclusions.	
	385.0					SAND (0.3 to 2.5) SAND, fine; some silt; trace gravel, fine to coarse, angular to subangular; trace boulders, angular to subangular; trace cobbles, angular to subangular; poorly graded, grey/green/oragne/brown, loose to compact, massive, some stratification, wet.	
	384.0					SAND (2.5 to 4.6) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace boulders, angular to subangular; trace cobbles, angular to subangular; trace silt; well graded, greyish brown, dense to very dense, massive, wet to saturated.	
	383.0	GB	BU-2				Test pit located in spruce stand with moss covered ground. Easy digging with excavator. Pit walls stable.
	382.0					End of Test Pit: 4.6 m	Walls collapse from 3.0 m to 4.6 m. Groundwater at bedrock. Refusal due to bedrock at 4.6 m depth.

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.35

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-38

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 22 Jun 12

Location: Pit Overburden

Total Depth: 4.00 m


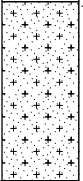
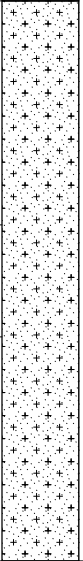
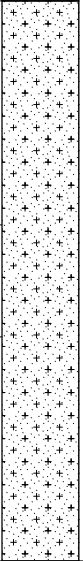
Date Completed: 22 Jun 12

Coordinates: 5,265,867 N, 429,384 E

Elevation: 386.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.7) PEAT; some silt; dark brown, spongy, fibrous, saturated, with root inclusions.	
1.0	385.0					SAND/SILT (0.7 to 1.5) Silty; SAND, fine; poorly graded, blueish grey, loose to compact, stratified, saturated.	
2.0	384.0	GB	BU-1			SILT/SAND (1.5 to 4) Sandy, fine to coarse, SILT; some gravel, fine to coarse, angular to subangular; trace boulders, angular to subrounded; trace cobbles, angular to subrounded; trace clay; poorly graded, light brown/grey, compact to very dense, massive, saturated.	
3.0	383.0	GB	BU-2				
4.0	382.0					End of Test Pit: 4 m	Test pit located in area of stunted spruce and alders with grasses and moss cover. Ground becomes hard at 3.0 m. Pit walls stable except where water infilling. Groundwater infilling quickly from peat layer. Refusal due to bedrock at 4.0 m.
5.0	381.0						

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.36

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-39

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 22 Jun 12

Location: Pit Overburden

Total Depth: 0.90 m


Date Completed: 22 Jun 12

Coordinates: 5,265,718 N, 429,357 E

Elevation: 393.40 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	393.0	GB	BU-1			<p>ORGANICS (0 to 0.1) PEAT; some silt; trace sand, fine; trace gravel, fine to coarse; trace boulders, subangular; trace cobbles, subangular; dark brown, spongy, fibrous, with root inclusions.</p> <p>SAND/SILT (0.1 to 0.3) Silty; SAND, fine; trace gravel, fine to coarse, subangular; trace boulders, angular to subangular; trace cobbles, angular to subangular; well graded, orangeish brown to light brown, loose, massive, moist, with root inclusions.</p> <p>SAND (0.3 to 0.9) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subangular; trace boulders, angular to subangular; trace cobbles, angular to subangular; well graded, light to greyish brown, loose to compact, massive, moist, with root inclusions.</p>	
1.0						End of Test Pit: 0.9 m	
	392.0						
	391.0						<p>Test pit located in jack pine stand with balsam and red pine and poplar.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 0.9 m depth.</p>

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.37

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PO-40

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 22 Jun 12

Location: Pit Overburden

Total Depth: 1.00 m


Date Completed: 22 Jun 12

Coordinates: 5,266,080 N, 429,091 E

Elevation: 394.30 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	394.0					<p>ORGANICS (0 to 0.05) PEAT; trace boulders, angular to subangular; trace sand, fine; dark brown, spongy, fibrous, with root inclusions.</p> <p>SAND (0.05 to 1) SAND, fine; some silt; trace gravel, angular to subangular; trace boulders, angular to subangular; trace cobbles, angular to subangular; well graded, orangeish brown to light brown, loose to compact, massive, moist, with root inclusions.</p>	
	1.0					End of Test Pit: 1 m	
	393.0						
	2.0						
	392.0						

Test pit located in area of jack pine white birch and spruce trees.

Easy digging with excavator.

Pit walls stable.

No groundwater encountered.

Refusal due to bedrock at 1.0 m depth.

SAMPLING SYMBOLS:

GB GRAB

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.38

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-01

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jun 12

Location: Plant Site

Total Depth: 3.00 m


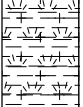
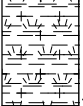
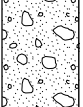
Date Completed: 19 Jun 12

Coordinates: 5,267,796 N, 429,178 E

Elevation: 392.08 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
392.0						ORGANICS (0 to 0.5) PEAT; dark brown, spongy, fibrous, saturated, with root inclusions.	
391.0						ORGANICS (0.5 to 1.5) ORGANIC SILT; dark brown, plastic, fibrous to amorphous, saturated.	
390.0						TILL (1.5 to 3) Gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; some silt; trace cobbles, angular to subangular; well graded, grey, dense to very dense, massive, wet to saturated.	
389.0		GB	BU-1			End of Test Pit: 3 m	
388.0							Test pit located in spruce swamp. Till is very dense. Difficult to excavate. Groundwater slowly percolating in from peat layer. Refusal due to bedrock at 3.0 m depth. Bedrock is dark blue in color.
387.0							

SAMPLING SYMBOLS:

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Project No.
NB101-497/1



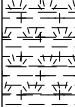
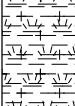
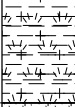
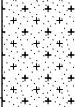
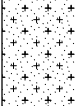
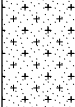
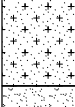
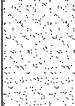
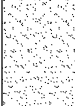


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Rev.
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Figure A1.39

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Project: CÔTÉ GOLD PROJECT		Test Pit No.: TP12-PS-02	Page: 1 of 1
Contractor: Marathon		Equipment Used: CAT 330 DL	Date Started: 19 Jun 12
Location: Plant Site		Total Depth: 5.50 m	Date Completed: 19 Jun 12
Coordinates: 5,267,808 N , 429,243 E		Elevation: 392.96 m	Logged by: RWT
Reviewed by: RSM/KEH			

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.5) PEAT; dark brown, spongy to plastic, fibrous, wet, with root inclusions.	
						ORGANICS (0.5 to 2) ORGANIC SILT; dark brown, plastic, fibrous to amorphous, wet to saturated, with root and wood inclusions.	
1.0	392.0						
2.0	391.0	GB	BU-1			SILT/SAND (2 to 4) Sandy, fine to coarse; SILT; low plasticity, light grey to grey, firm to very stiff, stratified, saturated.	
3.0	390.0						
4.0	389.0					SAND (4 to 5.5) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; some silt, trace cobbles, angular to subangular; trace clay; well graded, blueish grey to dark grey, dense to very dense, massive, saturated. With increasing depth, sand becomes coarser, grey becomes darker and density increases.	Test pit located in spruce swamp.
5.0	388.0						Pit wall stability decreases with depth.
							From 3.0 to 4.0 walls are unstable.
							Pit begins to cave in at 4.5 m.
							Groundwater pooled at surface.
							Stopped at 5.5 m due to limit of excavator reach.
							
						End of Test Pit: 5.5 m	

SAMPLING SYMBOLS:  GRAB	IAMGOLD CORPORATION CÔTÉ GOLD PROJECT		
	 CONSULTING	Project No. NB101-497/1	Ref. No. 4
Figure A1.40			

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 I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-03

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jun 12

Location: Plant Site

Total Depth: 4.00 m


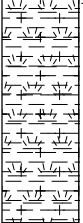
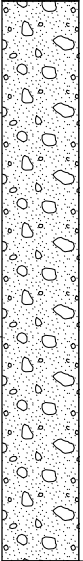
Date Completed: 19 Jun 12

Coordinates: 5,267,920 N, 429,326 E

Elevation: 392.90 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.5) PEAT; spongy, fibrous, wet, with root inclusions.	
						ORGANICS (0.5 to 1.5) ORGANIC SILT; firm, fibrous, wet, with root inclusions.	
						TILL (1.5 to 4) Gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; some silt; trace cobbles; trace boulders, angular to subrounded; well graded, grey, compact to very dense, massive, wet to saturated.	
						End of Test Pit: 4 m	Test pit located in spruce swamp. Ground wobbling as shovel digs. Excavating difficult due to slough. Test pit walls became unstable at 3.5 - 4.0 m and water began to infiltrate rapidly. Refusal due to slough and water at 4.0 m depth.

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.41

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-04

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jun 12

Location: Plant Site

Total Depth: 4.50 m

Date Completed: 19 Jun 12

Coordinates: 5,268,101 N, 429,390 E

Elevation: 389.37 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
389.0						ORGANICS (0 to 4) PEAT; dark brown, spongy, fibrous, saturated, with wood and root inclusions.	
388.0							
387.0							
386.0							
385.0		GB	BU-1			SAND (4 to 4.5) SAND, fine to coarse; some silt; some clay; trace gravel, fine, angular to subangular; trace cobbles, angular; well graded, blueish grey, compact to dense, massive, saturated. Clay lenses.	Test pit located in cedar swamp with balsam birch and spruce trees and thick moss. Pit walls relatively stable.
						End of Test Pit: 4.5 m	Ground wobbles in 3-5 m radius around operating shovel. Groundwater at surface infiling quick at 2.5-3.0 m. Refusal due to slough and excavator limits at 4.5 m depth.
384.0							

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.42

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-05

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jun 12

Location: Plant Site

Total Depth: 2.10 m

Date Completed: 19 Jun 12

Coordinates: 5,267,994 N, 429,194 E

Elevation: 397.75 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.05) PEAT; some boulders, angular to subangular; trace cobbles, angular to sub angular; dark brown, spongy, fibrous, with root inclusions.</p> <p>SAND (0.05 to 2.1) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subangular; some cobbles, angular to subangular; trace boulders, angular to subangular; well graded, light brown to light grey, loose to very dense, massive, moist. Boulders/cobbles at surface, sand increasingly coarse with depth.</p>	
397.0							
1.0							
	396.0	GB	BU-1				
2.0							
	395.0					End of Test Pit: 2.1 m	Test pit located in jack pine plantation. Pit wall stable. No groundwater encountered. Refusal due to bedrock at 2.1 m depth.

SAMPLING SYMBOLS:

GB GRAB

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Figure A1.43

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-06

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jun 12

Location: Plant Site

Total Depth: 2.50 m

Date Completed: 18 Jun 12

Coordinates: 5,267,941 N , 428,984 E

Elevation: 405.25 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	405.0					ORGANICS (0 to 2) PEAT; dark brown; spongy, fibrous, saturated, with root and wood inclusions.	
	404.0						
	403.0					SILT/SAND (2 to 2.5) Sandy, fine to coarse; SILT; some gravel, fine to coarse; trace cobbles, angular to subrounded; low plasticity, blueish grey, soft to stiff, massive, saturated.	Test pit located in spruce swamp with thick spongy moss at surface. Could not get to middle of swamp. Test pit was excavated from edge of bedrock. Groundwater flowing into pit from 0.2 m below surface. Bedrock refusal at 2.5 m depth. Bedrock sloping at approximately 30 degrees. Peat depth varies from 0.5 to 2.5 m along slope N to S.
						End of Test Pit: 2.5 m	

SAMPLING SYMBOLS:

GRAB

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Figure A1.44

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-07

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jun 12

Location: Plant Site

Total Depth: 1.50 m


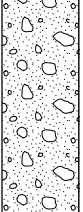
Date Completed: 18 Jun 12

Coordinates: 5,268,133 N, 429,039 E

Elevation: 401.22 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	401.0					ORGANICS (0 to 1) PEAT AND ORGANIC SILT; trace sand, fine to coarse; dark reddish brown, spongy to firm, fibrous, wet to saturated, with root and wood inclusions.	<p>Test pit located in a spruce stand.</p> <p>Easy digging with excavator.</p> <p>Pit walls were stable.</p> <p>Water slowly seeping from organic layer (0.5 m depth).</p> <p>Bedrock refusal at 1.5 m depth.</p>
	400.0	GB	BU-1			TILL (1 to 1.5) Gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; some silt; trace cobbles, angular to subrounded; well graded, bluish grey, compact to dense, massive, saturated.	
	399.0					End of Test Pit: 1.5 m	

SAMPLING SYMBOLS:

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Figure A1.45

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-08

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jun 12

Location: Plant Site

Total Depth: 1.30 m

Date Completed: 18 Jun 12

Coordinates: 5,268,182 N, 428,896 E

Elevation: 402.21 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	402.0	GB	BU-1			<p>ORGANICS (0 to 0.05) PEAT; trace boulders; dark brown, spongy, fibrous, with root inclusions.</p> <p>SILT/SAND (0.05 to 0.4) Sandy, fine; SILT; trace clay; trace boulders, subangular; low plasticity, light grey, soft to firm, massive, wet, with root inclusions.</p>	
		GB	BU-2			<p>SAND (0.4 to 1.2) SAND, fine to coarse; some silt; trace gravel, fine, angular; poorly graded, light brown, compact, stratified, wet to saturated. (mostly medium sand)</p>	
	401.0					<p>SAND (1.2 to 1.3) SAND, fine to coarse; some silt; some gravel, angular; well graded, light brown, compact to dense, saturated.</p> <p>End of Test Pit: 1.3 m</p>	
	400.0						<p>Test pit located in jack pine stand with some white birch trees.</p> <p>Easy digging with excavator.</p> <p>Pit walls fairly stable.</p> <p>Groundwater slowly infilling along top of bedrock.</p> <p>Refusal due to bedrock at 1.3 m depth.</p> <p>Bedrock outcrops close by.</p> <p>Large boulders on trail to test pit.</p>

SAMPLING SYMBOLS:

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Figure A1.46

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-09

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jun 12

Location: Plant Site

Total Depth: 1.20 m


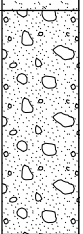
Date Completed: 18 Jun 12

Coordinates: 5,268,123 N, 429,187 E

Elevation: 401.41 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	401.0	GB	BU-1			<p>ORGANICS (0 to 0.1) PEAT; trace sand, fine to coarse, trace silt, trace boulders; dark brown/redish brown, spongy, fibrous, moist, with root inclusions.</p> <p>SAND (0.1 to 0.7) SAND, fine to coarse; some silt; trace gravel, fine, angular; poorly graded, light brown, loose to compact, massive, moist, with root inclusions.</p>	
	1.0	GB	BU-2			<p>TILL (0.7 to 1.2) Gravelly, fine to coarse, angular; SAND, fine to coarse; trace silt; trace cobbles, angular; well graded, light brown, compact to dense, massive, moist.</p>	
	400.0					End of Test Pit: 1.2 m	
	2.0						Test pit located in jack pine stand with some white birch trees.
	399.0						Easy digging with excavator.
							Test pit walls stable.
							No groundwater encountered.
							Refusal due to bedrock at 1.2 m depth.
							Bedrock outcrops close by.

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.47

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-10

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jun 12

Location: Plant Site

Total Depth: 1.20 m

Date Completed: 19 Jun 12

Coordinates: 5,268,037 N, 429,308 E

Elevation: 395.59 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	395.0					ORGANICS (0 to 0.2) PEAT; some boulders, angular to subangular; some cobbles, angular to subangular; dark brown, spongy, fibrous, moist, with root incusions.	<p>Test pit located in jack pine plantation.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.2 m depth.</p>
						SAND/SILT (0.2 to 0.7) Silty; SAND, fine; trace gravel, angular; trace boulders, angular to subangular; well graded, light brown, loose to compact, massive, moist.	
		GB	BU-1			TILL (0.7 to 1.2) SAND, fine to coarse; AND GRAVEL, fine to coarse, angular to subangular; trace cobbles, angular to subangular; trace silt; well graded, compact to very dense, wet.	
						End of Test Pit: 1.2 m	
	394.0						
	2.0						
	393.0						

SAMPLING SYMBOLS:

GRAB

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

Knight Piésold
CONSULTING

Project No.
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Ref. No.
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Rev.
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Figure A1.48

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-11

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jun 12

Location: Plant Site

Total Depth: 0.10 m


Date Completed: 18 Jun 12

Coordinates: 5,267,867 N, 428,980 E

Elevation: 405.88 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>SAND (0 to 0.1) SAND, fine to medium; trace gravel, fine to coarse, subangular; trace boulders, subangular; trace cobbles, subangular; trace silt; trace organics; well graded, light/dark brown and grey, massive, moist, with root inclusions.</p> <p>End of Test Pit: 0.1 m</p>	<p>Test pit located in jack pine stand.</p> <p>Refusal due to bedrock at 0.1 m depth.</p> <p>No groundwater encountered.</p> <p>Bedrock outcrops all around.</p>

SAMPLING SYMBOLS:

 GRAB

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

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CONSULTING

Project No.
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Figure A1.49

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-12

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jun 12

Location: Plant Site

Total Depth: 1.50 m

Date Completed: 18 Jun 12

Coordinates: 5,268,058 N, 428,904 E

Elevation: 403.91 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	403.0					ORGANICS (0 to 1) PEAT; dark brown, spongy, fibrous, saturated, with wood and root inclusions.	
	1.0	GB	BU-1			SILT (1 to 1.5) SILT; some sand, fine; trace clay; trace gravel, fine to coarse, angular; low plasticity, blueish grey, soft, massive, saturated.	
	402.0					End of Test Pit: 1.5 m	
	2.0						Test pit located in spruce covered area with some white birch trees and moss at surface. Refusal due to bedrock at 1.5 m depth. Water just below surface.
	401.0						

SAMPLING SYMBOLS:

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Figure A1.50

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-13

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jun 12

Location: Plant Site

Total Depth: 5.00 m

Date Completed: 18 Jun 12

Coordinates: 5,267,721 N, 428,926 E

Elevation: 393.31 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
393.0						ORGANICS (0 to 4) PEAT; dark purpleish brown, spongy, fibrous, wet to saturated, with large wood and root inclusions, strong odour. Ice pieces encountered in peat.	
1.0							
392.0							
2.0							
391.0							
3.0							
390.0							
4.0							
389.0		GB	BU-1			TILL (4 to 5) GRAVEL, fine to coarse, angular; some sand, fine to coarse; some silt; trace cobbles, angular; well graded, bluish grey, dense to very dense, saturated.	Test pit located in spruce swamp with trace juvenile poplar trees. Excavator made a pad with trees for stability. Peat walls not stable. Pools of water at surface.
5.0						End of Test Pit: 5 m	Refusal due to bedrock at 5.0 m depth.
388.0							

SAMPLING SYMBOLS:

GB GRAB

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Figure A1.51

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-14

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jun 12

Location: Plant Site

Total Depth: 1.20 m


Date Completed: 19 Jun 12

Coordinates: 5,268,170 N, 429,263 E

Elevation: 397.48 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	397.0	GB	BU-1			<p>ORGANICS (0 to 0.05) PEAT; some sand, fine; trace boulders, subangular; brown, spongy, fibrous, with root inclusions.</p> <p>SAND (0.05 to 1.2) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace cobbles, angular to subrounded; trace silt; trace boulders, angular to subrounded; well graded, light brown/light grey, loose to dense, massive, moist, with root inclusions. Density increases with depth.</p>	
						End of Test Pit: 1.2 m	
	396.0						
	2.0						Test pit located in jack pine plantation.
							Easy digging with excavator.
							No groundwater encountered.
							Refusal due to bedrock at 1.2 m depth.
	395.0						Many bedrock outcrops on trail to pit.

SAMPLING SYMBOLS:

GB GRAB

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Figure A1.52

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-15

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jun 12

Location: Plant Site

Total Depth: 0.15 m

Date Completed: 18 Jun 12

Coordinates: 5,267,896 N, 429,090 E

Elevation: 403.64 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.15) Sandy, fine; PEAT; trace silt; trace boulders, subangular; trace gravel, fine to coarse, subangular to angular; trace cobbles, subangular to angular; dark to light brown, spongy to firm, fibrous, moist, with root inclusions.</p> <p>End of Test Pit: 0.15 m</p>	<p>Test pit located in jack pine stand with some balsam and white birch and spruce trees.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 0.15 m depth.</p>
403.0							
1.0							
402.0							
2.0							
401.0							

SAMPLING SYMBOLS:

GB GRAB

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Figure A1.53

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-16

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 20 Jun 12

Location: Pant Site

Total Depth: 4.50 m

Date Completed: 20 Jun 12

Coordinates: 5,267,718 N, 429,245 E

Elevation: 388.62 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
388.0						ORGANICS (0 to 4) PEAT; dark brown, spongy, fibrous, saturated, with root and wood inclusions. Trace frozen peat at surface.	
387.0							
386.0							
385.0							
384.0		GB	BU-1			ORGANICS (4 to 4.5) Clayey; ORGANIC SILT; brownish grey/blueish grey, plastic, fibrous, stratified, saturated, with tiny white and yellow shell inclusions. Material has "jelly like" structure, weed inclusions as well.	Test pit located in spruce stand on soft moss covered ground. Easy to dig in peat.
384.0						End of Test Pit: 4.5 m	Groundwater slowly infilling at 1.5 m/rushing in at 3.5 m. Stopped at 4.5 m depth due to slough and water infill.
383.0							

SAMPLING SYMBOLS:

GB GRAB

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Figure A1.54

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-PS-17

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 20 Jun 12

Location: Plant Site

Total Depth: 4.50 m

Date Completed: 20 Jun 12

Coordinates: 5,267,798 N , 429,387 E

Elevation: 388.60 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	388.0					ORGANICS (0 to 3) PEAT AND ORGANIC SILT; dark brown, spongy to plastic, fibrous, moist to saturated, with root and wood inclusions.	
	387.0						
	386.0						
	385.0	GB	BU-1			SILT (3 to 4.5) SILT; some sand, fine; trace clay; low plasticity, blueish grey, stiff to very stiff, stratified to laminated, saturated.	
	384.0					End of Test Pit: 4.5 m	Test pit located in cedar and spruce swamp with some white birch trees and thick moss cover. Difficult to excavate due to water and slough. Pit walls stable until 3.0 m. Groundwater infilling quickly from beneath machine and material piles. Stopped at 4.5 m depth due to end of excavator reach.
	383.0						

SAMPLING SYMBOLS:

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Figure A1.55

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-01

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 27 Jun 12

Location: Tailings Management Facility #1

Total Depth: 6.00 m


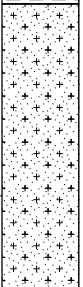
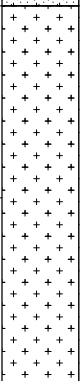
Date Completed: 27 Jun 12

Coordinates: 5,271,158 N, 429,067 E

Elevation: 383.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.5) PEAT; some silt; dark brown, spongy to plastic, fibrous, wet to saturated, with root and wood inclusions.	
1.0	382.0	GB	BU-1			SAND/SILT (0.5 to 2) Silty; SAND, fine; trace clay; poorly graded, light brown to grey, loose to dense, stratified, wet to saturated.	
2.0	381.0						
3.0	380.0	GB	BU-2			SILT (2 to 6) SILT; some clay; trace sand, fine; low plasticity, grey, dense to very dense, stratified, saturated. Thick silt lenses (up to 0.025 m thick) and thin sand lenses (0.005 m thick).	
4.0	379.0						
5.0	378.0						Test pit located in previously cut low cedar stand with moss and grasses. Easy digging until water starts to infill. Pit walls become unstable at 4.0 m depth. Groundwater slowly infilling from organic layer and gushing into pit bottom at 4.0 m.
6.0	377.0					End of Test Pit: 6 m	End of test pit at 6.0 m depth due to suspected bedrock.

SAMPLING SYMBOLS:

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Figure A1.72

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-02

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 27 Jun 12

Location: Tailings Management Facility #1

Total Depth: 5.00 m

Date Completed: 27 Jun 12

Coordinates: 5,271,109 N, 429,343 E

Elevation: 398.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.05) PEAT; trace silt; trace sand, fine to coarse; trace cobbles, subangular; dark brown, spongy to plastic, fibrous, wet, with root inclusions.	
						ORGANICS (0.05 to 0.25) ORGANIC SILT; trace peat; trace cobbles, angular; trace sand, fine to coarse; dark brown to light brown, plastic.	
1.0	397.0	GB	BU-1			SAND/SILT (0.25 to 2.5) Silty; SAND, fine to coarse; trace gravel, fine, angular; poorly graded, light brown to orangeish brown, loose to compact, massive, wet.	
2.0	396.0						
3.0	395.0	GB	BU-2			TILL (2.5 to 5) Gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; trace silt; trace cobbles, subangular; trace boulders, subangular; well graded, light brown/light grey, compact to dense, massive, wet.	
4.0	394.0	GB	BU-3				Test pit located at bottom of microvalley. Pit walls stable until encountered large boulder at 4.0 m. Groundwater infiling quickly at 2.5 m. Excavator refusal due to suspected bedrock at 5.0 m depth.
5.0	393.0					End of Test Pit: 5 m	

SAMPLING SYMBOLS:

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Figure A1.73

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-03

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 27 Jun 12

Location: Tailings Management Facility #1

Total Depth: 4.00 m

Date Completed: 27 Jun 12

Coordinates: 5,271,030 N, 430,063 E

Elevation: 399.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	398.0					SAND (0 to 3.75) SAND, fine; trace silt; poorly graded, orangeish brown to light brown, loose to compact, massive, moist, with root inclusions until 0.9 m.	
2.0	397.0	GB	BU-1				
3.0	396.0						
4.0	395.0					SAND (3.75 to 4) SAND, fine to coarse; some gravel, fine to coarse, subangular to subrounded; trace cobbles, subrounded; trace silt; well graded, grey, compact to dense, massive, moist. End of Test Pit: 4 m	Test pit located in pine and balsam stand. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 4.0 m depth.
5.0	394.0						

SAMPLING SYMBOLS:

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Figure A1.74

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-04

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 27 Jun 12

Location: Tailings Management Facility #1

Total Depth: 4.00 m

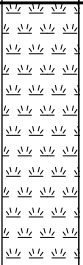
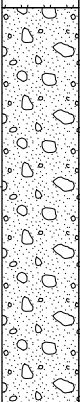
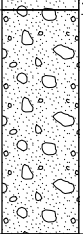
Date Completed: 27 Jun 12

Coordinates: 5,271,015 N, 430,212 E

Elevation: 399.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	398.0					ORGANICS (0 to 1.2) PEAT; dark brown, spongy, fibrous, wet, with root and wood inclusions.	
2.0	397.0	GB	BU-1			TILL (1.2 to 3) Sandy, fine to coarse; GRAVEL, fine to coarse, angular to subangular; some silt; well graded, dark grey/orangeish brown/greyish brown, compact to dense, massive, wet to saturated.	
3.0	396.0	GB	BU-2			TILL (3 to 4) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some cobbles, subrounded; trace boulders, subangular to subrounded; trace silt; well graded, dense to very dense, massive, saturated.	
4.0	395.0					End of Test Pit: 4 m	Test pit located in area of cat tails grasses and moss. Pit walls unstable at 3.0 m. Groundwater infilling quickly at coarse sand and gravel layer at 3.0 m depth. End of test pit at 4.0 m depth due to slough water and material density.
5.0	394.0						

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.75

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-05

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 28 Jun 12

Location: Tailings Management Facility #1

Total Depth: 2.50 m

Date Completed: 28 Jun 12

Coordinates: 5,270,853 N, 430,973 E

Elevation: 394.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.1) PEAT; some boulders, angular to subrounded; some cobbles, angular to subrounded; trace sand, fine to coarse; trace silt; reddish brown, spongy, fibrous, moist, with root inclusions.</p> <p>SAND (0.1 to 2.5) SAND; fine to coarse; some gravel, fine to coarse, angular to subangular; trace boulders, angular to subrounded; trace cobbles, angular to subrounded; trace silt; well graded, light brown, loose to compact, massive, moist to wet, with root inclusions to 1.2 m.</p>	
1.0	393.0						
2.0	392.0	GB	BU-1				Test pit located in previously cut area of immature poplar trees. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 2.5 m depth.
						End of Test Pit: 2.5 m	

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.76

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-06

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 28 Jun 12

Location: Tailings Management Facility #1

Total Depth: 6.50 m

Date Completed: 28 Jun 12

Coordinates: 5,270,813 N, 431,303 E

Elevation: 391.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	390.0					ORGANICS (0 to 1) PEAT AND ORGANIC SILT; dark brown, spongy to plastic, moist to wet, with root and wood inclusions.	
2.0	389.0	GB	BU-1			SAND/SILT (1 to 3) Silty; SAND, fine; poorly graded, grey, compact to dense, stratified, wet to saturated, with root inclusions to 2.0 m.	
3.0	388.0					SILT (3 to 6.5) SILT; trace clay; trace sand, fine; low plasticity, grey, dense to very dense, stratified, wet to saturated.	
4.0	387.0	GB	BU-2				
5.0	386.0						Test pit located in area covered in shrubs moss and grass west of Bagsverd creek.
6.0	385.0						Pit walls become unstable at 3.0 m depth.
							Groundwater infilling slowly at 6.0 m.
							Refusal due to rock at 6.5 m cannot confirm bedrock.
						End of Test Pit: 6.5 m	

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.77

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-07

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 4 Jul 12

Location: Tailings Management Facility #1

Total Depth: 0.70 m

Date Completed: 4 Jul 12

Coordinates: 5,270,774 N, 431,406 E

Elevation: 387.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
		GB	BU-1			ORGANICS (0 to 0.1) PEAT; some boulders, angular to subrounded; some sand, fine to coarse; some silt; dark reddish brown, spongy, fibrous, moist, with root inclusions.	
		GB	BU-2			SAND (0.1 to 0.7) SAND, fine to coarse; some silt; trace gravel, fine to coarse, angular to subrounded; trace cobbles; trace peat; well graded, brownish grey, loose to compact, moist, with root inclusions.	
1.0	386.0					End of Test Pit: 0.7 m	
2.0	385.0						Test pit located in cedar and spruce stand with moss coverage. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 0.7 m depth. Bedrock is blue/red / fine textured / platy / slightly weathered.

SAMPLING SYMBOLS:

GRAB

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

Knight Piésold
CONSULTING

Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.78

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-09

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 4 Jul 12

Location: Tailings Management Facility #1

Total Depth: 4.20 m

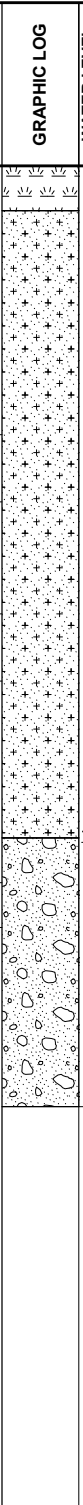
Date Completed: 4 Jul 12

Coordinates: 5,271,114 N, 431,869 E

Elevation: 397.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS/BOULDERS (0 to 0.2) PEAT; MUCH BOULDERS, angular; some cobbles, angular; dark reddish brown, spongy, fibrous, moist, with root and wood inclusions.</p> <p>SAND/SILT (0.2 to 3) Silty; SAND, fine to coarse; some gravel, fine to coarse, subangular to subround; some boulders, subangular; trace cobbles, subangular to subrounded; well graded, light greyish brown, loose to dense, massive, moist to saturated, with some root inclusions.</p> <p>TILL (3 to 4.2) Gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; some cobbles, angular to subangular; some silt; some clay; well graded, grey, dense to very dense, massive, saturated.</p>	
1.0	396.0	GB	BU-1				
2.0	395.0	GB	BU-2				
3.0	394.0	GB	BU-3				
4.0	393.0					End of Test Pit: 4.2 m	<p>Test pit located in recently cut area with saplings/shurbs/ferns/grasses.</p> <p>Easy digging with excavator.</p> <p>Pit walls collapsed at depth.</p> <p>Groundwater infilling quickly at depth of 3.5 m.</p> <p>Refusal due to bedrock at 4.2 m depth.</p>
5.0	392.0						

SAMPLING SYMBOLS:

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Figure A1.79

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-10

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 4 Jul 12

Location: Tailings Management Facility #1

Total Depth: 2.10 m

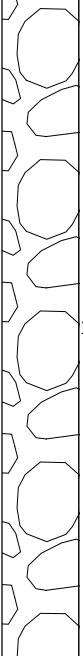

Date Completed: 4 Jul 12

Coordinates: 5,272,795 N, 431,778 E

Elevation: 389.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	388.0					BOULDERS/COBBLES (0 to 1.5) BOULDERS; MUCH COBBLES, angular to subrounded; trace gravel, angular; trace peat; trace organic silt; dark brown/grey/pink, loose to dense, massive, saturated, with some root and wood inclusions. Boulders are pink and grey, although stained brown from peat.	
2.0	387.0	GB	BU-1			TILL (1.5 to 2.1) SAND, fine to coarse; some silt; some cobbles, angular; some gravel, fine to coarse, angular to subangular; trace boulders, angular to subangular; well graded, dark brown/grey, loose to compact, massive, saturated.	Test pit located in recently cut and planted pine trees with natural balsam and spruce trees. Difficulty digging due to boulders and water. Ground water encountered at depth of 0.75 m. End of test pit at 2.1 m depth due to suspected bedrock. Cannot confirm due to water.
End of Test Pit: 2.1 m							

SAMPLING SYMBOLS:

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Figure A1.80

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-11

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 3 Jul 12

Location: Tailings Management Facility #1

Total Depth: 1.90 m

Date Completed: 3 Jul 12

Coordinates: 5,273,336 N, 431,220 E

Elevation: 388.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.5) PEAT; trace boulders, subrounded; dark brown, spongy, fibrous, wet, with root and wood inclusions.	
						ORGANICS (0.5 to 0.8) ORGANIC SILT; trace boulders, subrounded; plastic, dark brown, fibrous, wet, with root inclusions.	
1.0	387.0	GB	BU-1			SILT/SAND (0.8 to 1.5) Sandy, fine; SILT; trace gravel, fine to coarse, angular; trace cobbles, angular to subangular; trace clay; poorly graded, low plasticity, blueish grey to beige, firm to stiff, stratified to massive, wet to saturated.	
		GB	BU-2			SAND (1.5 to 1.9) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace cobbles, angular to subangular; trace silt; well graded, dense, massive, saturated.	
2.0	386.0				▼	End of Test Pit: 1.9 m	Test pit located in spruce stand with moss and shrub cover. Easy digging with excavator. Pit walls stable. Groundwater infilling at depth of 1.9 m. Refusal due to bedrock at 1.9 m depth.

SAMPLING SYMBOLS:

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Figure A1.81

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-12

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 3 Jul 12

Location: Tailings Management Facility #1

Total Depth: 3.00 m

Date Completed: 3 Jul 12

Coordinates: 5,273,717 N, 430,648 E

Elevation: 386.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.25) PEAT; trace boulders, angular; trace cobbles, angular; some organic silt; spongy to plastic, dark reddish brown/dark brownish grey, fibrous, moist, with root and wood inclusions.</p> <p>SILT/SAND (0.25 to 1.5) Sandy, fine; SILT; trace boulders, angular, trace colbles, angular; poorly graded, non plastic, yellowish brown/grey, firm, massive, moist to wet, with root inclusions. Orange leaching around roots.</p>	
1.0	385.0	GB	BU-1				
2.0	384.0	GB	BU-2			<p>TILL (1.5 to 3) Gravelly, angular; SAND, fine to coarse; some cobbles, angular to subangular; trace boulders, angular to subangular; some silt; well graded, grey, compact to dense, massive, wet to saturated.</p>	
3.0	383.0					End of Test Pit: 3 m	
4.0	382.0						Test pit located in flat area with moss/shrubs/grass.
							Easy digging with excavator.
							Pit walls stable until saturated soil.
							Groundwater infilling quickly at depth of 2.5 m.
5.0	381.0						Refusal due to bedrock at 3.0 m depth.

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.82

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-13

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 3 Jul 12

Location: Tailings Management Facility #1

Total Depth: 1.40 m

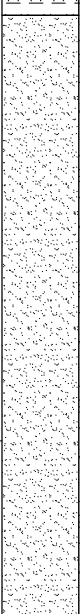
Date Completed: 3 Jul 12

Coordinates: 5,273,728 N, 430,373 E

Elevation: 381.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	380.0	GB	BU-1			<p>ORGANICS (0 to 0.05) PEAT; some boulders, angular; trace sand, fine to coarse; dark brown/grey, spongy, fibrous, moist, with root inclusions.</p> <p>SAND (0.05 to 1.4) SAND, fine to coarse; some boulders, angular; some silt; trace gravel, fine to coarse, angular to subangular; trace cobbles, angular to subangular; well graded, light brownish grey, loose to compact, massive, moist, with root inclusions.</p>	
2.0	379.0					End of Test Pit: 1.4 m	<p>Test pit located in pine stand.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.4 m depth.</p>

SAMPLING SYMBOLS:

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Ref. No.
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Figure A1.83

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB\GB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-14

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 3 Jul 12

Location: Tailings Management Facility #1

Total Depth: 1.20 m


Date Completed: 3 Jul 12

Coordinates: 5,273,545 N, 429,964 E

Elevation: 386.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	385.0	GB	BU-1			<p>ORGANICS (0 to 0.05) PEAT; trace boulders, angular; trace sand; trace silt; trace gravel, fine to coarse, angular to subrounded; dark reddish brown/grey, spongy, fibrous, moist, with root inclusions.</p> <p>SAND (0.05 to 1.2) SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; trace boulders, angular; trace cobbles, angular to subangular; trace silt; well graded, light orangeish brown, loose to compact, massive, moist, with root inclusions</p>	
	2.0					End of Test Pit: 1.2 m	<p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.2 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.84

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-15

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 3 Jul 12

Location: Tailings Management Facility #1

Total Depth: 1.90 m

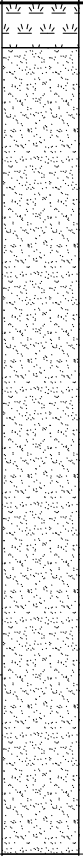
Date Completed: 3 Jul 12

Coordinates: 5,273,519 N, 429,909 E

Elevation: 386.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	385.0					<p>ORGANICS (0 to 0.1) PEAT; trace sand, fine to coarse; trace silt; trace boulders, angular to subangular; dark brown to grey, spongy, fibrous, moist, with root inclusions.</p> <p>SAND (0.1 to 1.9) SAND, fine to coarse; some boulders, angular; trace cobbles, angular to subrounded; trace gravel, fine to coarse, angular to subrounded; trace silt; well graded, light orangeish brown to light brownish grey, loose to compact, massive, moist, with root inclusions.</p>	
	384.0	GB	BU-1			End of Test Pit: 1.9 m	<p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.9 m depth.</p> <p>Bedrock is coarse granite pink/white/bluish.</p>

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Figure A1.85

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-16

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 3 Jul 12

Location: Tailings Management Facility #1

Total Depth: 0.05 m

Date Completed: 3 Jul 12

Coordinates: 5,273,336 N, 429,574 E

Elevation: 384.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.05) PEAT; some sand, fine to coarse; trace gravel, fine, angular to subrounded; dark brown/grey, spongy, fibrous, moist with root inclusions. End of Test Pit: 0.05 m</p>	
1.0	383.0						
2.0	382.0						<p>Test pit located in jack pine stand 20 m east of road.</p> <p>Refusal due to bedrock at 0.05 m depth.</p> <p>Bedrock outcrops all around the test pit.</p>

SAMPLING SYMBOLS:

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Rev.
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Figure A1.86

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-18

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 28 Jun 12

Location: Tailings Management Facility #1

Total Depth: 2.00 m

Date Completed: 28 Jun 12

Coordinates: 5,271,815 N, 428,092 E

Elevation: 395.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						BOULDERS (0 to 1) BOULDERS, angular; some cobbles, angular; trace gravel, fine to coarse, angular; trace peat; well graded, dark brown, very dense, massive, wet to saturated, with root inclusions.	
1.0	394.0	GB	BU-1			SAND (1 to 2) SAND, fine to coarse; some boulders, angular; trace gravel, fine to coarse, angular; trace cobbles, angular; trace silt; well graded, light brown to grey, very dense, massive, saturated.	
2.0	393.0					End of Test Pit: 2 m	Test pit located in spruce stand. Area covered by moss. Easy digging with excavator. Pit walls stable. Groundwater infiling quickly at depth of 0.2 m. Refusal due to bedrock at 2.0 m depth.

SAMPLING SYMBOLS:

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Figure A1.87

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-20

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 4 Jul 12

Location: Tailings Management Facility #2

Total Depth: 3.80 m

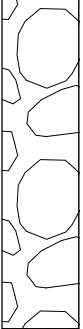
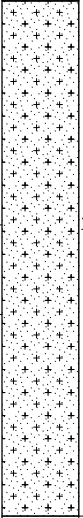

Date Completed: 4 Jul 12

Coordinates: 5,274,011 N, 431,001 E

Elevation: 380.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	379.0					BOULDERS/COBBLES (0 to 1.5) BOULDERS, angular to subangular; MUCH COBBLES, angular to subangular; MUCH PEAT; some organic silt; dark brown, dense, massive, wet, with some root inclusions.	
2.0	378.0					SAND/SILT (1.5 to 3.8) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; some cobbles, angular to subrounded; trace boulders, angular to subrounded; well graded, light brownish grey, compact to very dense, massive, wet to saturated.	
3.0	377.0	GB	BU-1				
4.0	376.0					End of Test Pit: 3.8 m	Test pit located 70 m east of large bedrock ridge. Some difficulties digging. Pit walls stable until 3.0 m. Groundwater infilling slowly at 2.5 m / quickly at 3.5 m. Refusal due to bedrock at 3.8 m depth.
5.0	375.0						

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.88

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-22

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 6 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.90 m

Date Completed: 6 Jul 12

Coordinates: 5,276,972 N, 430,848 E

Elevation: 399.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	398.0					<p>ORGANICS (0 to 0.2) PEAT; MANY boulders, angular to subangular; some cobbles, angular to subangular; trace gravel, fine to coarse, angular to subangular; trace sand, fine to coarse; dark reddish brown/grey, spongy, fibrous, moist, with root inclusions.</p> <p>SAND (0.2 to 1.9) SAND, fine to coarse; some silt; trace gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subangular; trace boulders, angular to subangular; well graded, light brown, loose to compact, massive, moist, with trace root inclusions.</p>	
2.0	397.0					End of Test Pit: 1.9 m	<p>Test pit located in pine stand.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.9 m depth.</p>

GB BU-1

SAMPLING SYMBOLS:

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Figure A1.89

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-23

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 6 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.60 m

Date Completed: 6 Jul 12

Coordinates: 5,277,258 N, 430,826 E

Elevation: 378.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						BOULDERS/COBBLES (0 to 0.8) BOULDERS AND COBBLES; some peat; trace gravel, fine to coarse, angular to subrounded; grey/dark brown/light reddish brown, loose, massive, moist to wet, with some root inclusions.	
1.0	377.0	GB	BU-1			SAND (0.8 to 1.6) SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; trace silt; trace cobbles, angular to subrounded; well graded, orangeish brown to grey, loose to compact, massive, wet to saturated, with some root inclusions.	
2.0	376.0					End of Test Pit: 1.6 m	Test pit located in area of moss/shrubs/stunted tress/grasses. Easy digging with excavator. Pit walls stable. Groundwater slowly infilling at depth of 0.8 m. Refusal due to bedrock at 1.6 m depth.

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.90

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-24

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 6 Jul 12

Location: Tailings Management Facility #2

Total Depth: 4.20 m


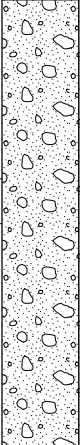
Date Completed: 6 Jul 12

Coordinates: 5,277,288 N, 430,726 E

Elevation: 366.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	365.0					BOULDERS/COBBLES (0 to 2.2) BOULDERS AND COBBLES; angular to subrounded; some peat; trace gravel, fine to coarse, angular to subangular; trace organic silt; dark reddish brown, spongy to plastic, fibrous, wet to saturated, with weed and root inclusions.	
2.0	364.0						
3.0	363.0	GB	BU-1			TILL (2.2 to 4.2) SAND, fine to coarse; AND GRAVEL, fine to coarse, angular to subrounded; some silt; trace cobbles, angular to subrounded; trace boulders, subrounded; well graded, grey, compact to very dense, saturated.	
4.0	362.0					End of Test Pit: 4.2 m	Test pit located in area of moss/grass/shrubs/stunted trees. Easy digging with excavator. Pit walls stable. Groundwater infilling from 1.0 m depth. Refusal due to suspected bedrock at 4.2 m depth.
5.0	361.0						

SAMPLING SYMBOLS:

GB GRAB

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Figure A1.91

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-25

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 6 Jul 12

Location: Tailings Management Facility #2

Total Depth: 2.50 m

Date Completed: 6 Jul 12

Coordinates: 5,277,284 N , 430,620 E

Elevation: 374.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	373.0					ORGANICS (0 to 1.6) PEAT; MANY boulders, angular to subangular; some cobbles, angular to subrounded; trace gravel, fine to coarse, angular to subrounded; dark reddish brown, spongy to plastic, fibrous, moist to wet, with wood and root inclusions.	
		GB	BU-1			SILT (1.6 to 1.9) SILT; some sand, fine to coarse; some boulders, angular to subangular; trace gravel, fine to coarse, angular to subangular; trace cobbles, angular to subangular; low plasticity, yellowish brown/brown, firm, massive, wet, with some root inclusions.	
2.0	372.0					SAND/SILT (1.9 to 2.5) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace cobbles, angular to subangular; trace boulders, angular to subangular; trace clay; well graded, light greyish brown, loose to dense, wet to saturated, with trace root inclusions.	Test pit located in flat area with shrub and moss cover. Easy digging with excavator. Pit walls stable. Groundwater pooling at surface of bedrock.
		GB	BU-2				Refusal due to bedrock at 2.5 m depth.
						End of Test Pit: 2.5 m	

SAMPLING SYMBOLS:

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Figure A1.92

I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-26

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 6 Jul 12

Location: Tailings Management Facility #2

Total Depth: 4.00 m

Date Completed: 6 Jul 12

Coordinates: 5,277,300 N, 430,390 E

Elevation: 399.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	398.0					ORGANICS (0 to 2.1) PEAT; dark reddish brown, spongy, fibrous, wet to saturated, with root and wood inclusions.	
2.0	397.0					TILL (2.1 to 4) GRAVEL, fine to coarse, angular to subrounded; some sand, fine to coarse; some cobbles, angular to subrounded; trace silt; trace boulders, angular to subangular; well graded, blueish grey, compact to very dense, massive, saturated.	
3.0	396.0	GB	BU-1				
4.0	395.0	GB	BU-2				
5.0	394.0					End of Test Pit: 4 m	Test pit located in area with spruce/moss/shrubs/grasses. Pit walls stable. Groundwater infilling from peat layer. Refusal due to suspected bedrock at 4.0 m. Cannot confirm due to water.

SAMPLING SYMBOLS:

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Figure A1.93

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-27

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 6 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.80 m

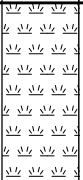
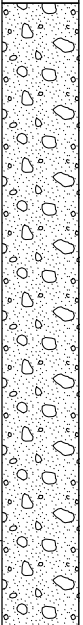
Date Completed: 6 Jul 12

Coordinates: 5,277,360 N, 429,728 E

Elevation: 378.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.4) PEAT; some boulders, angular to subangular; some cobbles, angular to subrounded; some gravel, angular to subrounded; dark brown/grey, spongy, fibrous, moist, with root and wood inclusions.	
						TILL (0.4 to 1.8) Gravelly, angular to subrounded; SAND, fine to coarse; trace cobbles, angular to subrounded; trace boulders, angular to subangular; trace silt; well graded, light brown, loose to compact, wet.	
1.0	377.0						
		GB	BU-1				
2.0	376.0					End of Test Pit: 1.8 m	Test pit located in jack pine stand with shrubs and moss. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 1.8 m depth.

SAMPLING SYMBOLS:

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Figure A1.94

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-28

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 6 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.20 m

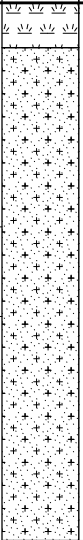
Date Completed: 6 Jul 12

Coordinates: 5,277,317 N, 429,496 E

Elevation: 383.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	382.0	GB	BU-1			<p>ORGANICS (0 to 0.1) PEAT; some boulders, angular; trace cobbles, angular to subrounded; dark brown/grey, spongy, fibrous, dry to moist, with root inclusions.</p> <p>SAND/SILT (0.1 to 1.2) Silty; SAND, fine to coarse; some gravel, angular to subrounded; trace cobbles, subangular; trace boulders, angular to subangular; poorly graded, orangeish brown to light brown, loose to compact, moist, with some root inclusions.</p>	
						End of Test Pit: 1.2 m	
	381.0						<p>Test pit located in pine stand with shrubs and sapplings.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.2 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.95

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-29

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 3 Jul 12

Location: Tailings Management Facility #1

Total Depth: 3.00 m

Date Completed: 3 Jul 12

Coordinates: 5,273,340 N, 428,920 E

Elevation: 394.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						BOULDERS (0 to 0.5) BOULDERS; Cobbles; some gravel, fine to coarse; trace peat; trace sand, fine to coarse; well graded, reddish brown/grey, dense, massive, moist to wet, with root inclusions.	
1.0	393.0	GB	BU-1			SILT (0.5 to 1) SILT; some sand, trace gravel, angular to subangular; trace boulders, angular to subangular; trace cobbles, angular to subangular; low plasticity, dark brown/grey/light brown/orangeish brown, compact, massive, moist, with root inclusions.	
2.0	392.0	GB	BU-2			TILL (1 to 3) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some silt; trace boulders, angular to subangular; trace cobbles, angular to subangular; well graded, light brownish grey, compact to dense, moist.	
3.0	391.0					End of Test Pit: 3 m	
4.0	390.0						Test pit located in jack pine stand with shrubs and moss. Many boulders at surface.
							Easy digging with excavator.
							Pit walls stable.
							No groundwater encountered.
5.0	389.0						Refusal due to bedrock at 3.0 m depth.

SAMPLING SYMBOLS:

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Figure A1.96

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-30

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 7 Jul 12

Location: Tailings Management Facility #1

Total Depth: 1.50 m

Date Completed: 7 Jul 12

Coordinates: 5,273,825 N, 428,814 E

Elevation: 395.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.1) PEAT; some boulders, angular; some cobbles, angular; trace gravel, fine to coarse, angular; greyish brown, spongy, fibrous, with root inclusions.</p> <p>BOULDERS/COBBLES (0.1 to 0.9) BOULDERS, angular; MUCH COBBLES, angular; some gravel, coarse, angular; trace sand, fine to coarse; trace silt; poorly graded, dark grey/white/blue/brown, loose, massive, dry to moist, with root inclusions.</p>	
1.0	394.0	GB	BU-1			<p>SAND (0.9 to 1.5) SAND, fine to coarse; some silt; some boulders, angular; some cobbles, angular; trace gravel; poorly graded, orangeish to light brown, loose to compact, moist, with some root inclusions.</p>	
2.0	393.0					End of Test Pit: 1.5 m	<p>Test pit located in jack pine stand at bottom of small bedrock slope.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.5 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.97

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-31

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 10 Jul 12

Location: Tailings Management Facility #2

Total Depth: 4.00 m

Date Completed: 10 Jul 12

Coordinates: 5,277,090 N, 428,603 E

Elevation: 397.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.6) PEAT AND ORGANIC SILT; MANY boulders, subangular; trace cobbles, angular to subangular; dark reddish brown, spongy to plastic, fibrous to amorphous, moist, with root inclusions.	
1.0	396.0	GB	BU-1			SILT/SAND (0.6 to 1.1) Sandy, fine; SILT; non plastic, light brown, firm to stiff, stratified, moist, with trace root inclusions.	
2.0	395.0	GB	BU-2			SAND/SILT (1.1 to 2) Silty; SAND, fine; trace gravel, fine to coarse, angular to subrounded; poorly graded, grey, compact to dense, stratified, moist to wet.	
3.0	394.0	GB	BU-3			TILL (2 to 4) Silty; GRAVEL, fine to coarse, angular to subrounded; some sand, fine to coarse; some cobbles, angular to subrounded; trace boulders, angular; poorly graded, light brown, dense to very dense, massive, wet to saturated.	
4.0	393.0					End of Test Pit: 4 m	Test pit located in alder stand with moss and grasses. Pit walls caving in at 4.0 m. Groundwater infilling quickly at a depth of 3.5 m. End of test pit at 4.0 m depth due to infilling water and slough.
5.0	392.0						

SAMPLING SYMBOLS:

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Figure A1.98

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-32

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 5 Jul 12

Location: Tailings Management Facility #2

Total Depth: 4.00 m


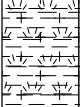
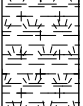

Date Completed: 5 Jul 12

Coordinates: 5,275,013 N, 431,072 E

Elevation: 397.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.5) PEAT; some organic silt; dark brown, spongy to plastic, fibrous, wet to saturated, with root inclusions.	
1.0	396.0					ORGANICS (0.5 to 1.6) ORGANIC SILT; some peat; plastic, dark brown, fibrous, saturated, with some root inclusions.	
2.0	395.0	GB	BU-1			SAND (1.6 to 4) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; trace boulders, angular to subangular; poorly graded, grey, loose to compact, massive, wet to saturated.	
3.0	394.0	GB	BU-2				
4.0	393.0					End of Test Pit: 4 m	Test pit located in spruce stand with flat moss and grass cover. Pit walls become unstable at a depth of 3.5 m. End of hole at 4.0 m depth due to collapse.
5.0	392.0						

SAMPLING SYMBOLS:

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Figure A1.99

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-33

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 5 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.80 m

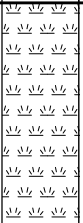

Date Completed: 5 Jul 12

Coordinates: 5,275,535 N, 431,000 E

Elevation: 410.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.5) PEAT; some sand, fine to coarse; some cobbles, angular to subangular; some boulders, angular to subangular; trace gravel, fine to coarse, angular to subrounded; trace silt; dark brown/grey, spongy, fibrous, wet, with root inclusions.	
						SAND (0.5 to 1.8) SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; some silt; trace cobbles, subangular to subrounded; trace boulders, subangular; well graded, grey/light brown, loose to compact, massive, wet, with some root inclusions.	
1.0	409.0		GB BU-1				
2.0	408.0					End of Test Pit: 1.8 m	Test pit located in spruce stand covered in moss/grass/shrubs. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 1.8 m depth.

SAMPLING SYMBOLS:

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Figure A1.100

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-34 **Page:** 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL **Date Started:** 5 Jul 12


Location: Tailings Management Facility #2

Total Depth: 1.80 m **Date Completed:** 5 Jul 12

Coordinates: 5,276,123 N, 430,955 E

Elevation: 411.00 m **Logged by:** RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; some boulders, angular to subangular; trace cobbles, angular to subangular; trace sand, fine to coarse; dark reddish brown/grey/black, spongy, moist, with root inclusions. SAND (0.2 to 1.8) SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; some silt; trace cobbles, angular to subrounded; trace boulders, angular to subrounded; well graded, orangeish brown to light brown, loose to compact, massive, wet to saturated, with some root inclusions.	
	410.0						
		GB	BU-1				
	409.0					End of Test Pit: 1.8 m	
							Test pit located in area of spruce/pine/poplar and birch trees. Easy digging with excavator. Pit walls stable. Groundwater infilling from bedrock. Refusal due to bedrock at 1.8 m depth.

SAMPLING SYMBOLS:

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Figure A1.101

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-35

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 26 Jun 12

Location: Tailings Management Facility #1

Total Depth: 0.90 m


Date Completed: 26 Jun 12

Coordinates: 5,271,183 N, 428,659 E

Elevation: 411.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.05) PEAT; some sand; trace silt; trace boulders, angular to subangular; trace cobbles, angular to subangular; dark brown, spongy, fibrous, moist, with root and wood inclusions.</p> <p>SAND (0.05 to 0.9) SAND, fine to coarse; some silt; trace gravel, angular to subangular; fine to coarse; trace boulders, angular to subangular; trace cobbles, angular to subangular; poorly graded, light orangeish brown/light grey, loose to compact, massive, moist, with root inclusions. Sand is more fine than coarse.</p>	
		GB	BU-1				
1.0	410.0					End of Test Pit: 0.9 m	
2.0	409.0						Test pit located in jack pine stand. Easy digging with excavator. No groundwater encountered. Refusal due to bedrock at 0.9 m depth.

SAMPLING SYMBOLS:

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Figure A1.102

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-36

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 27 Jun 12

Location: Tailings Management Facility #1

Total Depth: 2.20 m

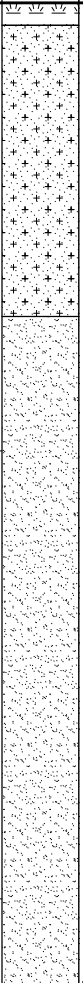
Date Completed: 27 Jun 12

Coordinates: 5,271,060 N, 429,622 E

Elevation: 378.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.05) PEAT; trace sand, fine to coarse; trace silt; trace boulders, angular to subangular; dark brown to greyish brown, spongy, fibrous, moist, with root inclusions.</p> <p>SAND/SILT (0.05 to 0.7) Silty; SAND, fine; trace boulders, angular to subangular; trace gravel, fine to coarse, angular to subangular; poorly graded, light brown/orangeish brown, loose to compact, wet, with root inclusions.</p> <p>SAND (0.7 to 2.2) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace boulders, angular to subangular; trace cobbles, angular to subangular; trace silt; well graded, brown to greyish brown, compact to dense, wet to saturated, with root inclusions to 1.5 m.</p>	
1.0	377.0	GB	BU-1				
2.0	376.0						Easy digging with excavator. Pit walls stable. Groundwater infilling along bedrock at 2.2 m. Refusal due to bedrock at 2.2 m depth.
						End of Test Pit: 2.2 m	

SAMPLING SYMBOLS:

GB GRAB

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.103

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-37

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 27 Jun 12

Location: Tailings Management Facility #1

Total Depth: 4.00 m

Date Completed: 27 Jun 12

Coordinates: 5,270,979 N, 430,369 E

Elevation: 403.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	402.0					SAND (0 to 1) SAND, fine; some silt; trace boulders, subangular; poorly graded, light brown, loose, massive, moist, with root inclusions.	
2.0	401.0					SAND (1 to 4) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; trace cobbles, subrounded; trace boulders, subrounded; trace silt; well graded, greyish brown, loose to dense, moist.	
3.0	400.0	GB	BU-1				
4.0	399.0					End of Test Pit: 4 m	Test pit located in cut area. No organics present. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 4.0 m depth.
5.0	398.0						

SAMPLING SYMBOLS:

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Figure A1.104

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-38

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 27 Jun 12

Location: Tailings Management Facility #1

Total Depth: 6.30 m

Date Completed: 27 Jun 12

Coordinates: 5,270,939 N, 430,529 E

Elevation: 403.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
		GB	BU-1			SAND/SILT (0 to 0.6) Silty; SAND, fine; trace gravel, fine to coarse, subangular to rounded; trace boulders, subangular to subrounded; trace cobbles, subangular to subrounded; poorly graded, orangeish brown/light grey, loose to compact, massive, moist, with root inclusions until 1.0 m.	
1.0	402.0					SAND/SILT (0.6 to 4) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subangular; some cobbles, subangular to subrounded; trace boulders, subangular; well graded, grey, compact to dense, massive, moist.	
2.0	401.0	GB	BU-2				
3.0	400.0						
4.0	399.0					SAND (4 to 6.3) SAND, fine to coarse; some boulders, angular to subrounded; some cobbles, angular to subrounded; some gravel, angular to subrounded; well graded, grey, dense to very dense, massive, wet to saturated.	
5.0	398.0						Easy digging with excavator. Pit walls stable. Large 1.5 m boulder at 4 m depth. Groundwater infilling along bedrock at 6.3 m depth.
6.0	397.0	GB	BU-3				Refusal due to bedrock at 6.3 m depth.
					▼	End of Test Pit: 6.3 m	

SAMPLING SYMBOLS:

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Figure A1.105

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-39

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 4 Jul 12

Location: Tailings Management Facility #1

Total Depth: 0.90 m

Date Completed: 4 Jul 12

Coordinates: 5,270,738 N, 431,606 E

Elevation: 401.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.05) PEAT; some boulders, subangular; trace sand, fine to coarse; dark brown/grey, spongy, fibrous, moist, with root inclusions.</p> <p>SAND/SILT (0.05 to 0.9) Silty; SAND, fine to coarse; some boulders, subangular; some cobbles, subangular to subrounded; trace gravel, fine to coarse, subangular to subrounded; well graded, orangeish brown, loose to compact, massive, moist, with some root inclusions.</p>	
		GB	BU-1				
1.0	400.0					End of Test Pit: 0.9 m	
2.0	399.0						<p>Test pit located in immature natural poplar stand.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 0.9 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.106

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-40

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 27 Jun 12

Location: Tailings Management Facility #1

Total Depth: 3.00 m

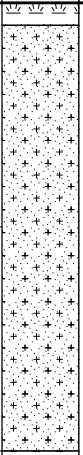
Date Completed: 27 Jun 12

Coordinates: 5,271,311 N, 428,331 E

Elevation: 414.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	413.0	GB	BU-1			<p>ORGANICS (0 to 0.1) PEAT; some sand; trace boulders, angular to subangular; dark brown, spongy, fibrous, with root inclusions.</p> <p>SAND/SILT (0.1 to 2) Silty; SAND, fine to coarse; trace gravel, angular to subrounded; trace boulders, angular to subrounded; trace cobbles, angular to subrounded; well graded, whitish grey to orangeish brown, compact to dense, massive, moist to wet, with root inclusions.</p>	
2.0	412.0					<p>BEDROCK (2 to 3) Weathered BEDROCK, black, fine grained texture, massive, weak, with quartz and root inclusions. Rock is highly weathered and oxidized, located below water table.</p>	
3.0	411.0					End of Test Pit: 3 m	
4.0	410.0						Test pit located in old growth area of poplar and cedar trees.
5.0	409.0						Pit walls stable. Groundwater infilling from bedrock at 3.0 m. Refusal due to bedrock at 3.0 m depth.

SAMPLING SYMBOLS:

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Figure A1.107

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I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-41

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 5 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.60 m

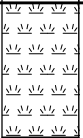
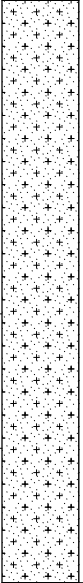
Date Completed: 5 Jul 12

Coordinates: 5,274,748 N, 431,066 E

Elevation: 413.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.3) PEAT; some sand, fine to coarse; trace boulders, angular to subangular; trace cobbles, angular to subangular; trace silt; dark greyish brown, spongy, fibrous, moist, with root inclusions.	
						SAND/SILT (0.3 to 1.6) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace boulders, angular to subrounded; trace cobbles, angular to subrounded; poorly graded, yellowish brown/orangeish brown, loose to compact, massive, moist, with some root inclusions.	
1.0	412.0	GB	BU-1				
2.0	411.0					End of Test Pit: 1.6 m	Test pit located at top of large hill in jack pine plantation. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 1.6 m depth.

SAMPLING SYMBOLS:

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Figure A1.108

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-42

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 4 Jul 12

Location: Tailings Management Facility #1

Total Depth: 2.10 m

Date Completed: 4 Jul 12

Coordinates: 5,271,742 N, 431,831 E

Elevation: 406.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
	405.0			+		SAND/SILT (0 to 2.1) Silty; SAND, fine to coarse, trace boulders, subangular to subrounded; trace cobbles, subangular to subrounded; trace gravel, subangular to subrounded; poorly graded, orangeish brown/greyish brown, loose to compact, moist, with some root inclusions.	
	404.0	GB	BU-1	+			
						End of Test Pit: 2.1 m	Test pit located in recently cut area with thin cover of moss and shrubs/ferns/saplings. Easy digging with excavator. No groundwater encountered. Refusal due to bedrock at 2.1 m depth.

SAMPLING SYMBOLS:

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Figure A1.109

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 I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-43

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 3 Jul 12

Location: Tailings Management Facility #1

Total Depth: 4.00 m

Date Completed: 3 Jul 12

Coordinates: 5,273,183 N, 428,936 E

Elevation: 389.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.25) Moss, shrubs, trace peat, green/yellow/brown, spongy, wet.</p>	
						<p>ORGANICS (0.25 to 2) PEAT AND ORGANIC SILT; some boulders, angular to subangular; dark reddish brown, spongy to plastic, fibrous, wet, with root and wood inclusions.</p>	
1.0	388.0						
2.0	387.0	GB	BU-1			<p>SAND/SILT (2 to 4) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular; some boulders, angular to subangular; trace cobbles, angular to subangular; well graded, grey, loose to dense, stratified, wet to saturated. Gravel content and grain size decreases with depth.</p>	
3.0	386.0	GB	BU-2				
4.0	385.0					End of Test Pit: 4 m	<p>Test pit located in spruce stand. Area is moss covered with shrubs and stunted trees.</p> <p>Pit walls very unstable.</p> <p>Groundwater infilling from peat layer.</p> <p>End of test pit at 4.0 m depth due to slough.</p>
5.0	384.0						

SAMPLING SYMBOLS:

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Figure A1.110

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-44

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 3 Jul 12

Location: Tailings Management Facility #1

Total Depth: 3.00 m

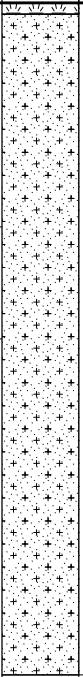
Date Completed: 3 Jul 12

Coordinates: 5,273,332 N, 429,581 E

Elevation: 383.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	382.0	GB	BU-1			<p>ORGANICS (0 to 0.05) PEAT; moss; dark brown/grey, spongy, fibrous, with root inclusions.</p> <p>SAND/SILT (0.05 to 3) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace cobbles, subangular to subrounded; poorly graded, light brown to grey, loose to compact, massive, moist. Sand is predominantly fine, trace coarse.</p>	
2.0	381.0						
3.0	380.0					End of Test Pit: 3 m	
4.0	379.0						Test pit located 10 m west of TP12-TMF-16. Easy digging with excavator. Pit walls are stable. No groundwater encountered. Refusal due to bedrock at 3.0 m depth. Bedrock slopes east to west.
5.0	378.0						

SAMPLING SYMBOLS:

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Figure A1.111

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-45

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 10 Jul 12

Location: Tailings Management Facility #2

Total Depth: 0.90 m


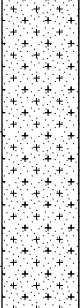
Date Completed: 10 Jul 12

Coordinates: 5,276,708 N, 428,598 E

Elevation: 414.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; trace boulders, angular to subangular; trace cobbles, angular to subangular; dark greyish brown, spongy, fibrous, dry to moist, with root inclusions.	
						SAND/SILT (0.2 to 0.9) Silty; SAND, fine to coarse; trace gravel, fine to coarse; angular to subrounded; trace cobbles, angular to subrounded; trace boulders, angular; poorly graded, light brown, loose to compact, massive, moist, with root inclusions.	
1.0	413.0		GB BU-1			End of Test Pit: 0.9 m	Test pit located in jack pine stand. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 0.9 m depth.
2.0	412.0						

SAMPLING SYMBOLS:

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Figure A1.112

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
 I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-46

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 10 Jul 12

Location: Tailings Management Facility #2

Total Depth: 4.70 m

Date Completed: 10 Jul 12

Coordinates: 5,276,302 N, 428,526 E

Elevation: 415.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.2) PEAT; trace boulders, subangular; trace sand, fine to coarse; dark brown, spongy, fibrous, moist, with root inclusions.</p> <p>SAND/SILT (0.2 to 4.7) SAND, fine to coarse; AND SILT; some gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; trace boulders, subangular; trace clay; well graded, orangeish brown/light greyish brown, loose to very dense, massive, moist to wet, with some root inclusions until 2.5 m.</p>	
1.0	414.0						
2.0	413.0	GB	BU-1				
3.0	412.0						
4.0	411.0	GB	BU-2				
5.0	410.0					End of Test Pit: 4.7 m	<p>Test pit located in jack pine stand with some birch and poplar trees.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable to a depth of 4.0 m.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 4.7 m depth.</p>

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.113

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-48

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 9 Jul 12

Location: Tailings Management Facility #2

Total Depth: 2.90 m

Date Completed: 9 Jul 12

Coordinates: 5,275,690 N, 428,504 E

Elevation: 409.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; trace boulders, angular; dark brown/reddish brown, spongy to plastic, fibrous, moist, with root inclusions.	
		GB	BU-1			SAND/SILT (0.2 to 0.8) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace cobbles, subangular to subrounded; poorly graded, light brown/orangeish brown, compact to dense, massive, moist to wet, with root inclusions.	
1.0	408.0					SAND (0.8 to 2.3) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subrounded; trace cobbles, subangular to subrounded; trace boulders, subangular to subrounded; poorly graded, light brownish grey, dense, massive, wet to saturated.	
		GB	BU-2				Easy digging with excavator. Pit walls stable. Groundwater infilling at a depth of 2.4 m.
2.0	407.0						Refusal due to bedrock at 2.9 m depth. Bedrock shelf at 1.1 m depth.
		GB	BU-3			SAND (2.3 to 2.9) SAND, fine to medium; some silt; trace gravel, subangular to subrounded; trace cobbles, subangular to subrounded; poorly graded, light grey, dense, massive, saturated.	
End of Test Pit: 2.9 m							

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.114

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-49

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 9 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.60 m

Date Completed: 9 Jul 12

Coordinates: 5,275,485 N, 428,536 E

Elevation: 414.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.2) PEAT; trace boulders, subangular; trace cobbles, subangular; trace sand, fine to coarse; dark brown/grey, spongy, fibrous, moist, with root inclusions.</p> <p>SAND (0.2 to 1.6) SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; some silt; trace cobbles, angular to subrounded; trace boulders, angular to subrounded; trace clay; well graded, orangeish brown/light brown, loose to dense, moist, with trace root inclusions. Density increases with depth.</p>	
1.0	413.0	GB	BU-1				
2.0	412.0					End of Test Pit: 1.6 m	<p>Test pit located in jack pine stand with some white birch trees.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.6 m depth.</p>

SAMPLING SYMBOLS:

GRAB

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

Knight Piésold
CONSULTING

Project No.
NB101-497/1

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Figure A1.115

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-50

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 9 Jul 12

Location: Tailings Management Facility #2

Total Depth: 5.00 m

Date Completed: 9 Jul 12

Coordinates: 5,275,427 N, 428,534 E

Elevation: 400.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	399.0					ORGANICIS (0 to 4.3) PEAT; dark reddish brown, spongy to plastic, fibrous, wet to saturated, with root/wood and ice inclusions.	
2.0	398.0						
3.0	397.0						
4.0	396.0	GB	BU-1		▼	TILL (4.3 to 5) Gravelly, fine to coarse, angular; SAND, fine to coarse; trace silt; trace cobbles, angular to subrounded; trace boulders, angular to subangular; trace clay; well graded, grey, dense, massive, saturated.	Test pit located in area of spruce trees with moss and shrubs. Easy digging with excavator. Pit walls become unstable after water begins to infiltrate and ground wobbles as shovel works. Groundwater infilling rapidly from organic layer at 4.0 m depth.
5.0	395.0					End of Test Pit: 5 m	End of test pit at 5 m depth due to collapse.

SAMPLING SYMBOLS:

GB GRAB

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Figure A1.116

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-51

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 8 Jul 12

Location: Tailings Management Facility #2

Total Depth: 2.00 m



Date Completed: 8 Jul 12

Coordinates: 5,275,139 N, 428,619 E

Elevation: 405.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 1) PEAT; dark reddish brown, spongy to plastic, fibrous, moist to wet, with root and wood inclusions.	
1.0	404.0					SAND (1 to 2) SAND, fine to coarse; some silt; trace gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; well graded, grey, compact to dense, massive, wet, with root inclusions.	
		GB	BU-1				
2.0	403.0					End of Test Pit: 2 m	Test pit located in area with spruce trees shrubs and moss. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 2.0 m depth.

SAMPLING SYMBOLS:

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Figure A1.117

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-53

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 8 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.10 m


Date Completed: 8 Jul 12

Coordinates: 5,274,698 N, 428,833 E

Elevation: 413.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	412.0	GB	BU-1			<p>ORGANICS (0 to 0.1) PEAT; some boulders, angular to subangular; some cobbles, angular to subangular; reddish brown/grey, spongy, fibrous, dry to moist, with root inclusions.</p> <p>SAND (0.1 to 1.1) SAND, fine to coarse; some silt; some cobbles, angular to subrounded; trace gravel, fine to coarse, angular to subrounded; trace boulders, angular; well graded, light brown/grey/orangish brown, loose to compact, massive, moist, with root inclusions.</p>	
						End of Test Pit: 1.1 m	<p>Test pit located in small valley between bedrock outcrops.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.1 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.118

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB\GB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-54

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 7 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.00 m

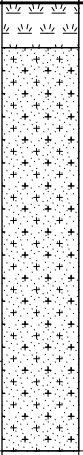
Date Completed: 7 Jul 12

Coordinates: 5,274,325 N, 428,997 E

Elevation: 411.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.1) PEAT; trace boulders, subangular; dark grey/dark brown, spongy, dry to moist, with root inclusions.</p> <p>SAND/SILT (0.1 to 1) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace boulders, subangular; trace cobbles, subangular to subrounded; poorly graded, orangeish brown/yellowish brown/greyish brown, loose to compact, massive, moist, with some root inclusions.</p>	
1.0	410.0	GB	BU-1			End of Test Pit: 1 m	
2.0	409.0						<p>Test pit located in jack pine stand near exposed bedrock.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.0 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.119

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-55

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 8 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.10 m

Date Completed: 8 Jul 12

Coordinates: 5,274,259 N, 429,314 E

Elevation: 421.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.15) PEAT; trace boulders, angular; trace cobbles, angular; dark brown/grey, spongy, fibrous, dry to moist, with root inclusions.</p> <p>SAND/SILT (0.15 to 1.1) Silty; SAND, fine to coarse; trace gravel, angular to subrounded; trace boulders, angular; trace cobbles, angular; trace clay; poorly graded, light brown, loose to compact, massive, moist, with root inclusions.</p>	
		GB	BU-1				
1.0	420.0						
						End of Test Pit: 1.1 m	
2.0	419.0						<p>Test pit located in jack pine stand near exposed bedrock.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.1 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.120

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-56

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 8 Jul 12

Location: Tailings Management Facility #2

Total Depth: 4.50 m

Date Completed: 8 Jul 12

Coordinates: 5,274,217 N, 429,592 E

Elevation: 380.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	379.0					ORGANICS (0 to 1.4) PEAT; dark reddish brown, spongy to plastic, fibrous, wet to saturated, with root and wood inclusions.	
2.0	378.0					SAND/SILT (1.4 to 4.5) Silty; SAND, fine to medium; trace gravel, fine, angular to subrounded, poorly graded, grey/brown, loose to compact, stratified, wet to saturated, with some root inclusions until 2.1 m.	
3.0	377.0	GB	BU-1				
4.0	376.0						Test pit located in low-lying flat area with moss and shrubs. Easy digging with excavator until sand starts to flow at 2.5 m depth. Pit walls unstable. Groundwater infilling rapidly at 4.0 m.
5.0	375.0					End of Test Pit: 4.5 m	End of test pit at 4.5 m depth due to collapse of pit walls.

SAMPLING SYMBOLS:

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Figure A1.121

I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-57

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 7 Jul 12

Location: Tailings Management Facility #2

Total Depth: 5.00 m

Date Completed: 7 Jul 12

Coordinates: 5,273,962 N, 430,476 E

Elevation: 380.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	379.0					ORGANICS (0 to 1.9) PEAT; trace boulders, subangular; dark reddish brown, spongy, fibrous, saturated, with root and wood inclusions.	
2.0	378.0					TILL (1.9 to 5) Silty; gravelly, fine to coarse, angular to rounded; SAND, fine to coarse; some boulders, angular to subangular; some cobbles, angular to subrounded; poorly graded, low plasticity, grey, compact to very dense, massive, saturated. Grading, density and particle size increases with depth.	
		GB	BU-1				
3.0	377.0						
4.0	376.0	GB	BU-2				Test pit located in alder stand with water at surface and moss/grasses. Difficulty digging with excavator. Pit walls unstable at 4.0 m. Groundwater infilling quickly from peat layer.
5.0	375.0					End of Test Pit: 5 m	End of test pit at 5.0 m depth due to slough.

SAMPLING SYMBOLS:

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Figure A1.122

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-58

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 7 Jul 12

Location: Tailings Management Facility #2

Total Depth: 3.80 m

Date Completed: 7 Jul 12

Coordinates: 5,274,196 N, 430,228 E

Elevation: 371.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	370.0					ORGANICS (0 to 1.6) PEAT; dark reddish brown, spongy, wet, with root and wood inclusions.	
2.0	369.0	GB	BU-1			SILT/SAND (1.6 to 3.2) Sandy, fine; SILT; trace boulders, angular to subangular; trace clay; low plasticity, blueish grey, stiff to very stiff, stratified, wet to saturated, with trace root inclusions.	
3.0	368.0					TILL (3.2 to 3.8) Gravelly, angular to subangular; SAND, fine to coarse; some silt; trace cobbles, angular to subangular; trace boulders, angular; trace clay; well graded, low plasticity, blueish grey, dense to very dense, massive, saturated.	
4.0	367.0					End of Test Pit: 3.8 m	Test pit located in spruce stand with moss/grasses/shrubs. Pit walls unstable at 3.0 m. Groundwater slowly infilling from depth of 2.8 m. Suspect bedrock at 3.8 m depth. Unable to confirm bedrock due to water.
5.0	366.0						

SAMPLING SYMBOLS:

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Figure A1.123

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-59

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 11 Jul 12

Location: Tailings Management Facility #2

Total Depth: 2.30 m

Date Completed: 11 Jul 12

Coordinates: 5,277,200 N, 428,668 E

Elevation: 410.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						BOULDERS (0 to 0.5) BOULDERS, angular to subrounded; some cobbles, angular to subrounded; some peat; trace gravel, angular; poorly graded, dark brown/grey, loose to dense, massive, dry to moist, with root inclusions.	
		GB	BU-1			SILT/SAND (0.5 to 1.3) Sandy, fine; SILT; trace gravel, subrounded; trace cobbles, subangular to rounded; trace boulders, subangular to subrounded; poorly graded, light brown, firm to stiff, massive, moist, with some root inclusions.	
1.0	409.0						
		GB	BU-2			SAND (1.3 to 2.3) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; trace boulders, subangular; well graded, light brown, compact to dense, massive, moist, with trace root inclusions.	
2.0	408.0						Test pit located in pine stand. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 2.3 m depth.
						End of Test Pit: 2.3 m	

SAMPLING SYMBOLS:

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Figure A1.124

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-60

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 10 Jul 12

Location: Tailings Management Facility #2

Total Depth: 5.00 m

Date Completed: 10 Jul 12

Coordinates: 5,276,984 N, 428,635 E

Elevation: 408.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>BOULDERS (0 to 0.3) BOULDERS, angular to subangular; some cobbles, angular to subangular; some peat; trace silt; trace gravel, coarse, angular; poorly graded, grey/dark brown, dense, massive, moist, with root inclusions.</p> <p>ORGANICS (0.3 to 1) ORGANIC SILT; MANY boulders, angular to subangular; trace cobbles, angular to subangular; trace peat; dark brown, firm to plastic, fibrous to amorphous, moist, with some root inclusions.</p> <p>SAND (1 to 2.7) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subrounded; trace boulders, angular to subangular; trace cobbles, subangular to subrounded; trace clay; poorly graded, orangish brown/light brownish grey, compact to dense, moist, with trace root inclusions.</p> <p>SAND (2.7 to 5) SAND, fine to coarse; some gravel, fine to coarse, angular to subangular; some silt; trace cobbles, subangular to subrounded; trace boulders, subangular; trace clay; well graded, light brown/grey, dense to very dense, moist to saturated.</p>	
1.0	407.0						
2.0	406.0	GB	BU-1				
3.0	405.0						
4.0	404.0	GB	BU-2				
5.0	403.0					End of Test Pit: 5 m	<p>Test pit located beside 90 degree bedrock outcrop.</p> <p>Difficulty digging past 3.5 m depth.</p> <p>Pit walls stable until 3.5 m depth.</p> <p>Groundwater pooling at bottom of pit.</p> <p>End of test pit at 5 m depth but cannot confirm bedrock through water.</p>

SAMPLING SYMBOLS:

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Figure A1.125

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-61

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 8 Jul 12

Location: Tailings Management Facility #2

Total Depth: 4.00 m

Date Completed: 8 Jul 12

Coordinates: 5,274,239 N, 429,461 E

Elevation: 381.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	380.0					<p>ORGANICS (0 to 0.1) PEAT; dark reddish brown/grey, spongy, fibrous, moist, with root inclusions.</p> <p>SAND/SILT (0.1 to 0.3) Silty; SAND, fine; poorly graded, greyish to light brown, loose, massive, moist, with root inclusions.</p> <p>SILT (0.3 to 2.8) SILT; trace clay; trace sand, fine; some boulders, subangular to subrounded; trace cobbles, subrounded; low to medium plasticity, grey silt/red clay, firm to very stiff, stratified, moist to wet, with trace root inclusions until 1.1m.</p>	
2.0	379.0	GB	BU-1				
3.0	378.0	GB	BU-2			<p>TILL (2.8 to 4) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; trace to some silt; trace cobbles, subrounded; trace clay; well graded, greyish brown, compact to dense, massive, saturated.</p>	
4.0	377.0					End of Test Pit: 4 m	<p>Test pit located in jack pine stand with alders and raspberry bushes.</p> <p>Pit walls unstable at a depth of 3.0 m.</p> <p>Groundwater infilling from top of bedrock layer.</p> <p>Refusal due to bedrock at 4.0 m depth.</p>
5.0	376.0						

SAMPLING SYMBOLS:

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Figure A1.126

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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-62

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 13 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.60 m


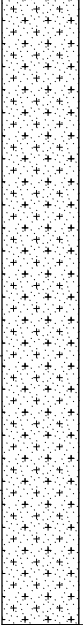
Date Completed: 13 Jul 12

Coordinates: 5,274,672 N, 430,746 E

Elevation: 401.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; trace boulders, subangular; trace cobbles, subangular; reddish brown, spongy, fibrous, dry to moist, with root inclusions.	
						SAND/SILT (0.2 to 1.6) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace cobbles, subangular to subrounded; poorly graded, yellowish brown, loose to compact, massive, dry to moist, with some root inclusions.	
1.0	400.0	GB	BU-1				
2.0	399.0					End of Test Pit: 1.6 m	Test pit located in jack pine stand with some poplar trees. Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 1.6 m depth.

SAMPLING SYMBOLS:

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Figure A1.127

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-TMF-63

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 13 Jul 12

Location: Tailings Management Facility #2

Total Depth: 1.60 m

Date Completed: 13 Jul 12

Coordinates: 5,274,438 N, 430,566 E

Elevation: 383.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	382.0					<p>ORGANICS (0 to 0.2) PEAT; some boulders, angular to subangular; trace cobbles, subangular to subrounded; light greyish brown, spongy, fibrous, dry to moist, with root inclusions.</p> <p>SAND/SILT (0.2 to 1.6) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace boulders, angular to subangular; trace cobbles, angular to subangular; poorly graded, light orangeish brown, loose to compact, massive, dry to moist.</p>	
		GB	BU-1				
						End of Test Pit: 1.6 m	
2.0	381.0						<p>Test pit located in pine stand with some poplar trees.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.6 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.128

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-01

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jul 12

Location: Waste Rock Dump #1

Total Depth: 6.10 m

Date Completed: 17 Jul 12

Coordinates: 5,263,829 N, 429,960 E

Elevation: 397.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	396.0					ORGANICS (0 to 1.6) PEAT; dark reddish brown, spongy to plastic, saturated, with root and wood inclusions.	
2.0	395.0					SILT/SAND (1.6 to 4.5) Sandy, fine; SILT; trace clay; poorly graded, low plasticity, blueish grey, firm to very stiff, stratified, wet to saturated, with some root inclusions.	
3.0	394.0	GB	BU-1				
4.0	393.0					SAND (4.5 to 6.1) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; trace bouldres, subangular; trace clay; well graded, light brownish grey, loose to dense, massive, saturated.	
5.0	392.0	GB	BU-2				Test pit located in old growth cedar stand. Easy digging with excavator until 5.0 m depth. Pit walls stable. Groundwater flowing into pit at depth of 5.7 m.
6.0	391.0						End of test pit at 6.1 m depth due to slough.
						End of Test Pit: 6.1 m	

SAMPLING SYMBOLS:

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Figure A1.56

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-02

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jul 12

Location: Waste Rock Dump #1

Total Depth: 3.00 m

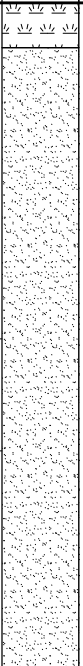
Date Completed: 17 Jul 12

Coordinates: 5,263,258 N, 429,908 E

Elevation: 395.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	394.0					<p>ORGANICS (0 to 0.2) PEAT; some boulders, angular to subangular; some cobbles, angular to subangular; reddish brown, spongy, fibrous, with root and wood inclusions.</p> <p>SAND (0.2 to 3) SAND, fine to coarse; some silt; some gravel, angular to subrounded; some cobbles, angular to subangular; trace boulders, angular to subangular; well graded, light orangeish brown/light brown, loose to dense, massive, moist, with some root inclusions.</p>	
2.0	393.0	GB	BU-1				
3.0	392.0					End of Test Pit: 3 m	
4.0	391.0						Test pit located in clear cut area. Easy digging with excavator. Pit walls stable. Groundwater found at bedrock surface. Refusal due to bedrock at 3.0 m depth.
5.0	390.0						

SAMPLING SYMBOLS:

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Figure A1.57

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-03

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jul 12

Location: Waste Rock Dump #1

Total Depth: 3.90 m

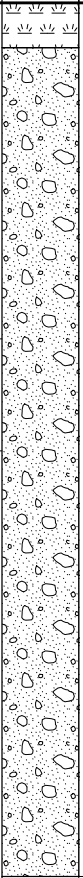
Date Completed: 17 Jul 12

Coordinates: 5,263,105 N, 430,473 E

Elevation: 412.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	411.0					<p>ORGANICS (0 to 0.2) PEAT; trace boulders, subangular; dark reddish brown, spongy.</p> <p>TILL (0.2 to 3.9) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some silt; some cobbles, subangular to subrounded; trace to some boulders; well graded, orangeish brown to light brownish grey, loose to dense, moist to wet, with trace root inclusions. Moisture and density increases with depth.</p>	
2.0	410.0	GB	BU-1				
3.0	409.0						
4.0	408.0					End of Test Pit: 3.9 m	<p>Test pit located on a hill with exposed bedrock all around.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 3.9 m depth.</p>
5.0	407.0						

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Figure A1.58

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-04

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jul 12

Location: Waste Rock Dump #1

Total Depth: 3.00 m


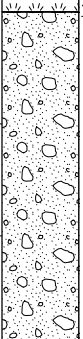
Date Completed: 17 Jul 12

Coordinates: 5,263,242 N, 430,916 E

Elevation: 392.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	391.0					ORGANICS (0 to 1.5) PEAT; dark brown, spongy, fibrous, wet to saturated, with root and wood inclusions.	
2.0	390.0	GB	BU-1			TILL (1.5 to 3) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some silt; trace cobbles, angular to subrounded; trace boulders, angular to subrounded; well graded, light blueish grey, compact to dense, massive, wet to saturated.	
3.0	389.0					End of Test Pit: 3 m	
4.0	388.0						Test pit located in low flat area with mosses. Easy digging with excavator. Pit wall stable. Groundwater infilling from peat layer and at 2.6 m depth. Refusal due to bedrock at 3.0 m depth.
5.0	387.0						

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Figure A1.59

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-05

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 17 Jul 12

Location: Waste Rock Dump #1

Total Depth: 2.50 m

Date Completed: 17 Jul 12

Coordinates: 5,263,312 N, 431,145 E

Elevation: 401.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	400.0					ORGANICS (0 to 2.5) PEAT; dark reddish brown, spongy to plastic, fibrous, saturated, with root and wood inclusions.	
2.0	399.0					End of Test Pit: 2.5 m	Test pit located in spruce stand with moss and shrubs. Difficulty digging with excavator. Pit walls unstable. Groundwater infilling from surface. End of test pit at 2.5 m depth. Peat too soft and saturated to excavate.

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Figure A1.60

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I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-07

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jul 12

Location: Waste Rock Dump #1

Total Depth: 3.70 m

Date Completed: 18 Jul 12

Coordinates: 5,264,101 N, 431,002 E

Elevation: 398.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	397.0					ORGANICS (0 to 3.1) PEAT; dark reddish brown, spongy to plastic, fibrous, saturated, with root and wood inclusions.	
2.0	396.0						
3.0	395.0						
		GB	BU-1			ORGANICS (3.1 to 3.3) ORGANIC SILT; plastic, light greenish grey, fibrous, saturated, with shell and plant inclusions. SAND (3.3 to 3.7) SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; some cobbles, subangular to subrounded; some boulders, angular to subangular; some silt; well graded, light blueish grey, compact to dense, saturated. End of Test Pit: 3.7 m	
4.0	394.0						Test pit located in mature spruce stand with moss/shrub/grass cover.
							Difficulty excavating due to slough and water.
							Pit walls collapsed at 3.1 m as peat is too soft and saturated.
							Groundwater slowly infilling from peat layer.
5.0	393.0						End of test pit at 3.7 m depth due to slough.

SAMPLING SYMBOLS:

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Figure A1.61

I:\110100497\01\A\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-08

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jul 12

Location: Waste Rock Dump #1

Total Depth: 1.30 m

Date Completed: 18 Jul 12

Coordinates: 5,264,008 N, 431,335 E

Elevation: 421.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.2) PEAT; trace boulders, subangular; trace cobbles, angular to subangular; trace sand, fine to coarse; dark greyish brown, spongy, fibrous, moist, with root inclusions.</p> <p>SILT (0.2 to 0.9) SILT; some sand, fine to coarse; trace boulders, angular; trace cobbles, angular to subangular; trace gravel, fine to coarse, angular to subrounded; low plasticity, orangeish brown, soft, massive, moist, with root inclusions.</p>	
1.0	420.0	GB	BU-1			<p>SAND (0.9 to 1.3) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subrounded; some cobbles, angular to subrounded; trace boulders, subangular; well graded, light orangeish brown to light greyish brown, loose to compact, massive, moist, with some root inclusions.</p>	
						End of Test Pit: 1.3 m	
2.0	419.0						<p>Test pit located in area of spruce and poplar trees with ferns on the ground.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.3 m depth.</p>

SAMPLING SYMBOLS:

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Figure A1.62

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-09

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jul 12

Location: Waste Rock Dump #1

Total Depth: 4.50 m

Date Completed: 18 Jul 12

Coordinates: 5,263,909 N, 431,742 E

Elevation: 395.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	394.0					ORGANICS (0 to 1.6) PEAT; dark brown, spongy to plastic, fibrous, wet, with root and wood inclusions.	
2.0	393.0	GB	BU-1			ORGANICS (1.6 to 1.8) ORGANIC SILT; trace boulders, angular; plastic, greenish grey, fibrous, wet, with shell and plant inclusions.	
						SAND/SILT (1.8 to 2.7) Silty; SAND, fine; trace boulders, angular; poorly graded, blueish grey, compact, stratified, wet, with root inclusions.	
3.0	392.0	GB	BU-2			SAND (2.7 to 4.5) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; trace boulders, angular to subangular; well graded, blueish grey, compact to very dense, wet to saturated.	
4.0	391.0						Test pit located in spruce stand with moss/grass/shrub cover. Relatively easy digging with excavator. Pit walls unstable at 3.0 m. Groundwater infilling rapidly at a depth of 3.4 m.
5.0	390.0					End of Test Pit: 4.5 m	End of test pit at 4.5 m due to slough.

SAMPLING SYMBOLS:

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Figure A1.63

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-10

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 18 Jul 12

Location: Waste Rock Dump #1

Total Depth: 2.70 m

Date Completed: 18 Jul 12

Coordinates: 5,264,413 N, 432,089 E

Elevation: 393.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						BOULDERS (0 to 0.7) BOULDERS, angular to subrounded; some cobbles, angular to subrounded; some sand, fine to coarse; some silt; trace gravel, fine to coarse, angular to subrounded; trace peat; black/light reddish brown/grey, loose, massive, moist, with some root inclusions.	
1.0	392.0					TILL (0.7 to 2.7) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some cobbles; some silt; trace boulders, angular to subrounded; well graded, light greyish brown, compact to dense, massive, moist to saturated, with trace root inclusions. Gravel content increases with depth. Silt content decreases with depth.	
2.0	391.0	GB	BU-1				Test pit located in pine stand close to road. Easy digging with excavator. Pit walls stable. Groundwater infilling at bedrock. Refusal due to bedrock at 2.7 m depth.
						End of Test Pit: 2.7 m	

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Figure A1.64

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-11

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jul 12

Location: Waste Rock Dump #1

Total Depth: 3.20 m

Date Completed: 19 Jul 12

Coordinates: 5,264,995 N, 431,678 E

Elevation: 402.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.8) PEAT; trace boulders, subrounded; dark brown, spongy to plastic, fibrous, wet, with root and wood inclusions.	
1.0	401.0	GB	BU-1			SILT (0.8 to 2.2) SILT; some clay, trace sand, fine; medium plasticity, light whiteish grey, firm to stiff, stratified, moist to wet.	
2.0	400.0					TILL (2.2 to 3.2) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some silt; some cobbles, subangular to subrounded; trace boulders, subangular; trace clay; well graded, light whiteish grey, compact to dense, massive, wet to saturated. Gravel and cobble content increases with depth.	
3.0	399.0	GB	BU-2			End of Test Pit: 3.2 m	
4.0	398.0						Test pit located in area of mature birch/balsam/spruce trees with moss/grass/fern/shrubs. Easy digging with excavator. Pit walls fairly stable. Groundwater infilling from 2.1 m depth. Refusal due to bedrock at 3.2 m depth.
5.0	397.0						

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.65

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
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Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-12

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jul 12

Location: Waste Rock Dump #1

Total Depth: 4.30 m

Date Completed: 19 Jul 12

Coordinates: 5,265,521 N, 431,440 E

Elevation: 405.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	404.0					ORGANICS (0 to 1.3) PEAT; dark brown, spongy to plastic, fibrous, wet, with root and wood inclusions.	
2.0	403.0	GB	BU-1			SILT/SAND (1.3 to 3) Sandy, fine; SILT; trace clay; poorly graded, low plasticity, light bluish grey, firm to stiff, friable, moist to wet.	
3.0	402.0					SAND (3 to 4.3) SAND, fine to medium; some silt; trace gravel, subangular to subrounded; trace cobbles, subangular to subrounded; some boulders, angular to subangular; poorly graded, light brown, compact to dense, massive, wet to saturated. Large angular boulders at 4.0 m.	
4.0	401.0					End of Test Pit: 4.3 m	Test pit located in area of mature cedar/spruce/birch trees with ferns/moss/grass/shrub cover. Difficulty excavating in boulders. Pit walls unstable at 3.0 m depth. Groundwater infilling at depth of 3.2 m. End of test pit at 4.3 m depth due to slough.
5.0	400.0						

SAMPLING SYMBOLS:

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.66

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\KP LIB\GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-13

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jul 12

Location: Waste Rock Dump #1

Total Depth: 5.00 m

Date Completed: 19 Jul 12

Coordinates: 5,266,623 N, 430,689 E

Elevation: 393.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	392.0					ORGANICS (0 to 1.3) PEAT; dark brown, spongy to plastic, fibrous, wet to saturated, with root and wood inclusions.	
2.0	391.0					SILT/SAND (1.3 to 4.5) Sandy, fine; SILT; some clay; poorly graded, low plasticity, light blueish grey, stiff to very stiff, stratified and friable, moist to saturated.	
3.0	390.0	GB	BU-1				
4.0	389.0						Test pit located in cedar swamp with white birch trees. Some difficulty digging with excavator.
5.0	388.0	GB	BU-2			SAND/SILT (4.5 to 5) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; trace clay; poorly graded, light brownish grey, dense, massive, saturated.	Pit walls unstable at 3.0 m depth. Groundwater infiling from 4.7 m depth.
						End of Test Pit: 5 m	Refusal due to bedrock at 5.0 m depth.

SAMPLING SYMBOLS:

GB GRAB

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CÔTÉ GOLD PROJECT

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.67

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-14

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jul 12

Location: Waste Rock Dump #1

Total Depth: 0.70 m


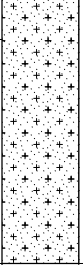
Date Completed: 19 Jul 12

Coordinates: 5,266,475 N, 430,582 E

Elevation: 400.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.1) PEAT; reddish brown, spongy, fibrous, dry to moist, with root inclusions.	
		GB	BU-1			SAND/SILT (0.1 to 0.7) Silty; SAND, fine to coarse; trace clay; trace gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subangular; trace boulders; angular to subrounded; poorly graded, orangeish brown to light greyish brown, loose to compact, massive, moist, with root inclusions.	
1.0	399.0					End of Test Pit: 0.7 m	
2.0	398.0						Test pit located in old growth forest Easy digging with excavator. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 0.7 m depth.

SAMPLING SYMBOLS:

GB GRAB

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.68

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-15

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jul 12

Location: Waste Rock Dump #1

Total Depth: 0.60 m

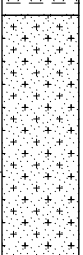
Date Completed: 19 Jul 12

Coordinates: 5,266,074 N, 430,479 E

Elevation: 393.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
		GB	BU-1			<p>ORGANICS (0 to 0.05) PEAT; trace boulders, angular to subrounded; trace cobbles, angular to subrounded; dark greyish brown, spongy, fibrous, dry to moist, with root inclusions.</p> <p>SAND/SILT (0.05 to 0.6) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to subrounded; trace cobbles, trace boulders, angular to subrounded; poorly graded, orangeish brown to yellowish brown, loose, massive, moist, with root inclusions.</p>	
						End of Test Pit: 0.6 m	
1.0	392.0						
2.0	391.0						<p>Test pit located in jack pine stand very close to road.</p> <p>Easy digging with excavator.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 0.6 m depth.</p>

SAMPLING SYMBOLS:

GB GRAB

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.69

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-16

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 19 Jul 12

Location: Waste Rock Dump #1

Total Depth: 5.80 m


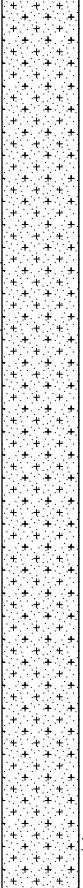
Date Completed: 19 Jul 12

Coordinates: 5,265,314 N, 430,304 E

Elevation: 394.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
1.0	393.0					ORGANICS (0 to 1.8) PEAT; dark reddish brown, spongy to plastic, fibrous, wet to saturated, with root and wood inclusions.	
2.0	392.0					SILT/SAND (1.8 to 5.8) Sandy, fine; SILT; trace clay; poorly graded, medium plasticity, blueish grey, firm to very stiff, stratified to friable, moist to saturated.	
3.0	391.0	GB	BU-1				
4.0	390.0						Test pit located in area with spruce/alder/birch/balsam trees.
5.0	389.0						Pit walls very unstable and break off in large slabs.
							Silt jiggles during excavation of pit.
							Groundwater rapidly infilling at depth of 5.6 m.
							End of test pit at 5.8 m depth due to water quickly infilling and slough.
						End of Test Pit: 5.8 m	

SAMPLING SYMBOLS:

GB GRAB

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.70

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP12-WD-17

Page: 1 of 1

Contractor: Marathon

Equipment Used: CAT 330 DL

Date Started: 16 Jul 12

Location: Waste Rock Dump #1

Total Depth: 6.00 m

Date Completed: 16 Jul 12

Coordinates: 5,265,203 N, 430,165 E

Elevation: 425.00 m

Logged by: RWT

Reviewed by: RSM/KEH

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	COMMENTS
				+++++		SILT (0 to 0.5) SILT; some sand, fine to coarse; trace gravel, fine to coarse, subangular to subrounded; trace cobbles, subangular to subrounded; trace boulders, subangular; medium plasticity, orangeish light brown, massive, dry to moist, with root inclusions.	
1.0	424.0				SAND (0.5 to 3.1) SAND, fine to coarse; some silt; some gravel, fine to coarse, subangular to subrounded; trace cobbles, subangular to subrounded; trace boulders, subangular; poorly graded; light greyish brown, loose to compact, massive, moist to wet, trace root inclusions.	
		GB	BU-1				
2.0	423.0					
3.0	422.0					
4.0	421.0				SAND (3.1 to 6) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to subrounded; trace cobbles, subrounded, trace boulders, subangular; trace clay; poorly graded, grey, loose to compact, stratified, wet to saturated. Layers of poorly graded medium sand and poorly graded silty fine sand.	
5.0	420.0	GB	BU-2				Test pit located in jack pine stand. Easy digging with excavator until slough. Pit walls collapsed at 4.0 m depth. End of test pit at 6.0 m depth due to slough.
6.0	419.0					End of Test Pit: 6 m	

SAMPLING SYMBOLS:

GB GRAB

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Project No. NB101-497/1	Ref. No. 4	Rev. 0
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Figure A1.71

I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\COTE SUMMER TP LOGS 2013-01-02.GPJ
I:\110100497\01\DATA\WORK FILES\WF09 - SUMMER SI LOGS\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 18-Jan-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-BP-01

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 6 Feb 13

Location: Borrow Pit

Total Depth: 1.50 m

Date Completed: 6 Feb 13

Coordinates: 5,272,816 N, 428,193 E

Elevation: 395.40 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	395.0					<p>ORGANICS (0 to 0.1) Sandy, fine to coarse; PEAT; brown, spongy, fibrous, frozen with root inclusions.</p> <p>SAND/SILT (0.1 to 0.6) Silty; SAND, fine to coarse; poorly graded, orangeish brown, loose, massive, moist with root inclusions.</p>		
1.0		GB	BU-1			<p>TILL (0.6 to 1.5) Gravelly, fine to coarse, angular to subrounded; silty; SAND, fine to coarse; some cobbles, subangular to subrounded; trace boulders, subangular; well graded, greyish brown, dense, massive, moist.</p>		
	394.0					End of Test Pit: 1.5 m		
2.0								
	393.0							
3.0								
	392.0							
4.0								
	391.0							

Test pit located in clear cut area.
Pit walls stable.
No groundwater encountered.
Refusal due to bedrock at 1.5 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.83

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-01

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 8 Feb 13

Location: Freshwater Diversion

Total Depth: 3.20 m

Date Completed: 8 Feb 13

Coordinates: 5,266,061 N, 430,988 E

Elevation: 383.40 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	383.0					ORGANICS (0 to 0.3) Moss; grass; peat; frozen with root inclusions.		
						ORGANICS (0.3 to 0.7) PEAT; some boulders, angular to subrounded; some cobbles, angular to subrounded; some gravel, coarse, angular to rounded.		
	1.0					ORGANIC SILT (0.7 to 1.2) Gravelly, fine to coarse, angular to subrounded; ORGANIC SILT; some sand, fine to coarse; trace cobbles, angular to subrounded; trace boulders, angular to subrounded; plastic, dark brown, fibrous, wet.		
	382.0	GB	BU-1			SAND/SILT (1.2 to 2) Silty; SAND, fine to coarse; trace gravel, fine to coarse, angular to rounded; trace cobbles, subangular to rounded; well graded, grey/brown, compact to dense, massive, wet.		
	2.0					SILT/SAND (2 to 3.2) Sandy; fine to coarse; SILT; MANY BOULDERS, angular; some gravel, fine to coarse, angular; some cobbles, angular to subangular; well graded, grey, very dense, massive, saturated.		
	381.0	GB	BU-2					
	3.0							
	380.0					End of Test Pit: 3.2 m		
	4.0							Test pit located beside road in area with spruce / birch and alders.
								Pit walls stable.
								Groundwater slowly infilling from peat layer.
								Refusal due to suspected bedrock at 3.2 m depth.
	379.0							Grain size and angularity generally increases with depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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CÔTÉ GOLD PROJECT**

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.42

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-02

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 8 Feb 13

Location: Freshwater Diversion

Total Depth: 3.00 m



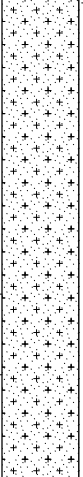
Date Completed: 8 Feb 13

Coordinates: 5,265,828 N, 431,064 E

Elevation: 383.20 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
383.0						ORGANICS (0 to 0.3) Moss; grass; peat; frozen.		
1.0						ORGANICS (0.3 to 1.2) PEAT; dark brown, spongy, fibrous, moist to saturated with root and wood inclusions.		
382.0						SILT/SAND (1.2 to 3) Sandy, fine; SILT; trace clay; low plasticity, grey, firm to very stiff, stratified, saturated.		
2.0								
381.0		GB	BU-1					
3.0						End of Test Pit: 3 m		
380.0								
4.0								
379.0								

Test pit located in area with alders / birch / spruce and cedar trees.

Pit walls become unstable at 2.5 m.

Groundwater inflowing quickly at 1.2 m.

End of test pit due to slough at 3.0 m depth.

SAMPLING SYMBOLS:

 GRAB  BLOCK

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.43

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-03

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 8 Feb 13

Location: Freshwater Diversion

Total Depth: 4.00 m


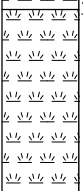
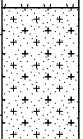
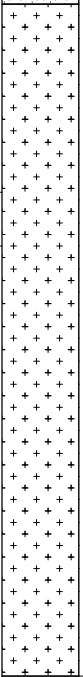
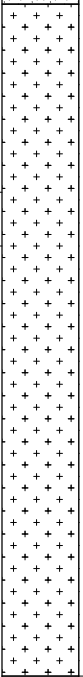
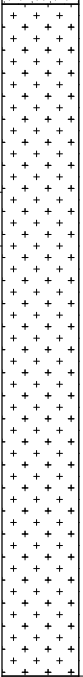
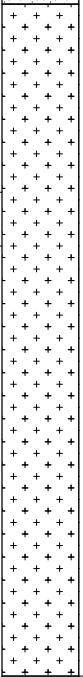
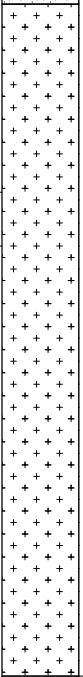
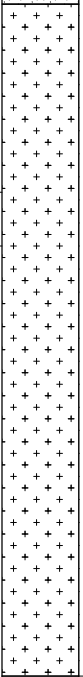
Date Completed: 8 Feb 13

Coordinates: 5,266,061 N, 430,841 E

Elevation: 384.40 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	384.0					ORGANICS (0 to 0.3) Moss; shrubs; grass; frozen.		
						ORGANICS (0.3 to 1) PEAT; dark brown, spongy, fibrous with root and wood inclusions.		
1.0		GB	BU-1			SAND/SILT (1 to 1.5) SAND, fine; AND SILT; trace clay; poorly graded, brownish grey, compact, stratified, wet.		
383.0						SILT (1.5 to 4) SILT; some sand, fine; some clay; low plasticity, grey, firm to very stiff, stratified, wet to saturated.		
2.0		GB	BU-2					
382.0								
3.0								
381.0								
4.0								
380.0						End of Test Pit: 4 m		Test pit located in spruce stand. Pit walls unstable at 2.7 m. Groundwater inflowing from peat layer. End of test pit due to slough at 4.0 m depth.

SAMPLING SYMBOLS:

GB GRAB  BLOCK

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CÔTÉ GOLD PROJECT**

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.44

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-04

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 8 Feb 13

Location: Freshwater Diversion

Total Depth: 4.20 m

Date Completed: 8 Feb 13

Coordinates: 5,265,777 N, 430,803 E

Elevation: 384.40 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
384.0						ORGANICS (0 to 0.5) Moss; shrubs; grass; peat; frozen.		
1.0						ORGANICS (0.5 to 4.1) PEAT; dark brown, spongy, fibrous, moist to saturated with root and wood inclusions. Becomes saturated at 2.0 m.		
383.0								
2.0								
382.0								
3.0								
381.0								
4.0		GB	BU-1			SILT (4.1 to 4.2) SILT; some sand, fine; some clay; low plasticity, grey, firm, stratified, saturated. End of Test Pit: 4.2 m		Test pit located in the bay of a waterbody between two bedrock slopes. Pit walls stable to a depth of 3.0 m. Groundwater infilling quickly from 2.0 m. End of test pit at 4.2 m depth due to water/slough/limits of excavator reach.
380.0								

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.45

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-05

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 7 Feb 13

Location: Freshwater Diversion

Total Depth: 3.20 m

Date Completed: 7 Feb 13

Coordinates: 5,265,730 N, 430,511 E

Elevation: 385.20 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	385.0					BOULDERS AND PEAT (0 to 0.5) BOULDERS, angular to subrounded; AND PEAT; many cobbles, angular to subrounded; dark brown, spongy/loose, fibrous, moist to frozen.		
	1.0	GB	BU-1			SAND/SILT (0.5 to 1.3) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; trace boulders, subangular; well graded, orangeish brown, compact, massive, moist.		
	384.0					SILT/SAND (1.3 to 2.5) SILT; AND SAND, fine; trace gravel, subrounded; trace clay, non-plastic, light brown/mottled orangeish brown, stiff, massive, moist.		
	2.0	GB	BU-2					
	383.0					SAND/SILT (2.5 to 3.2) SAND, fine to coarse; AND SILT; some gravel, fine to coarse, subangular to subrounded; trace clay; well graded, greyish brown, compact to dense, massive, moist to wet.		
	3.0	GB	BU-3					
	382.0					End of Test Pit: 3.2 m		
	4.0							Test pit located in small valley feature within pine plantation. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 3.2 m depth.
	381.0							

SAMPLING SYMBOLS:

GB GRAB BLOCK

**IAMGOLD CORPORATION
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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.46

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-07

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 3 Feb 13

Location: Freshwater Diversion

Total Depth: 3.80 m

Date Completed: 3 Feb 13

Coordinates: 5,264,667 N, 429,077 E

Elevation: 386.60 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) Moss; grass; alders; frozen.		
	386.0					ORGANICS (0.2 to 1.5) PEAT; dark brown, spongy, fibrous, saturated with root and decaying wood inclusions.		
1.0								
	385.0					SAND/SILT (1.5 to 3.8) SAND, fine to medium; AND SILT; poorly graded, grey, compact to very dense, stratified, saturated.		
2.0		GB	BU-1					
	384.0							
3.0								
	383.0							Test pit located at inlet to water body.
4.0								Groundwater infilling from below frozen layer.
	382.0					End of Test Pit: 3.8 m		End of test pit due to slough and water at 3.8 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

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CONSULTING

Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.47

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-08

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 3 Feb 13

Location: Freshwater Diversion

Total Depth: 4.20 m

Date Completed: 3 Feb 13

Coordinates: 5,264,668 N, 428,217 E

Elevation: 391.10 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	391.0					ORGANICS (0 to 0.2) Moss; grass; shrubs; frozen.		
						ORGANICS (0.2 to 0.4) PEAT; dark brown, spongy, fibrous, frozen with root and decaying wood inclusions.		
						ORGANICS (0.4 to 2.6) PEAT; dark brown, spongy, fibrous, wet with root and wood inclusions.		
1.0	390.0							
2.0	389.0							
3.0	388.0	GB	BU-1			SILT/SAND (2.6 to 4.2) Sandy, fine; SILT; trace clay; non-plastic, black/grey, compact to hard, stratified, wet to saturated. Sand content increases with depth.		Test pit located in spruce swamp with alders and birch trees. Sand layer flowing at 3.6 m. Groundwater infilling from below frozen layer. Refusal due to suspected bedrock at 4.2 m depth.
4.0	387.0					End of Test Pit: 4.2 m		

SAMPLING SYMBOLS:

GRAB BLOCK

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FIGURE A2.48

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-09

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 3 Feb 13

Location: Freshwater Diversion

Total Depth: 1.20 m

Date Completed: 3 Feb 13

Coordinates: 5,265,293 N, 428,098 E

Elevation: 393.30 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
393.0						<p>ORGANICS (0 to 0.2) PEAT; some boulders, subangular to rounded; trace cobbles, subangular to rounded; spongy, fibrous, frozen with root inclusions.</p> <p>SAND/SILT (0.2 to 1.2) Silty; SAND, fine to coarse; trace gravel, fine to coarse, subangular to rounded; trace boulders, subangular; trace cobbles, angular to subrounded; poorly graded, orangeish brown/yellowish brown, loose to compact, massive/friable, moist with root inclusions.</p>		
1.0		GB	BU-1					
392.0						End of Test Pit: 1.2 m		
2.0								
391.0								
3.0								
390.0								
4.0								Test pit located in pine stand.
389.0								Easy digging.
								No groundwater encountered.
								Refusal due to bedrock at 1.2 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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FIGURE A2.49

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-11

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 30 Jan 13

Location: Freshwater Diversion

Total Depth: 0.20 m

Date Completed: 30 Jan 13

Coordinates: 5,267,323 N, 428,169 E

Elevation: 391.10 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	391.0					<p>ORGANICS (0 to 0.2) PEAT; some silt; some sand, fine to coarse; trace gravel, fine to coarse, angular to subrounded; reddish brown, spongy, fibrous, moist with root inclusions. End of Test Pit: 0.2 m</p>		
1.0	390.0							
2.0	389.0							
3.0	388.0							
4.0	387.0							<p>Test pit located on local high spot between two water bodies.</p> <p>Easy digging.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 0.2 m depth.</p>

SAMPLING SYMBOLS:

GRAB BLOCK

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FIGURE A2.50

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-12

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 30 Jan 13

Location: Freshwater Diversion

Total Depth: 2.00 m

Date Completed: 30 Jan 13

Coordinates: 5,267,372 N, 428,429 E

Elevation: 388.10 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	388.0					BOULDERS AND PEAT (0 to 1) BOULDERS, angular; AND PEAT; many cobbles, angular to subrounded; loose to dense, saturated with root inclusions.		
1.0	387.0					TILL (1 to 2) Gravelly, fine to coarse, angular to subrounded; SILT; AND SAND, fine to coarse; some boulders, angular to subangular; some cobbles, angular to subrounded; well graded, grey/brown, compact to very dense, massive, saturated.		
2.0	386.0					End of Test Pit: 2 m		
3.0	385.0							
4.0	384.0							

Test pit located in narrow spot between water bodies.

Pit walls stable.

Groundwater infilling rapidly from peat layer.

Refusal due to suspected bedrock at 2.0 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

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FIGURE A2.51

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-16

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 4 Feb 13

Location: Freshwater Diversion

Total Depth: 2.10 m

Date Completed: 4 Feb 13

Coordinates: 5,270,789 N, 429,141 E

Elevation: 385.00 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) Moss; grass; shrubs; frozen.		
						ORGANICS (0.2 to 0.3) PEAT; dark brown, spongy, fibrous, frozen with root and decaying wood inclusions.		
						ORGANICS (0.3 to 0.9) PEAT; dark brown, spongy, fibrous, wet with root and wood inclusions.		
1.0	384.0					SAND (0.9 to 1.3) SAND, fine to medium; some silt; poorly graded, dark grey, loose to compact, stratified, wet.		
		GB	BU-1			SILT (1.3 to 2) SILT; some sand, fine; trace clay; non-plastic, grey, stiff to very stiff, stratified, wet.		
2.0	383.0					SAND/SILT (2 to 2.1) Silty; SAND, fine to coarse; poorly graded, grey, loose, massive, saturated. End of Test Pit: 2.1 m		
3.0	382.0							
4.0	381.0							

Test pit located in area with alders / cedar and spruce trees.
Pit walls stable.
Groundwater slowly infilling from below peat layer and from sand layer above bedrock.
Refusal due to bedrock at 2.1 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.52

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-17

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 6 Feb 13

Location: Freshwater Diversion

Total Depth: 1.50 m

Date Completed: 6 Feb 13

Coordinates: 5,270,875 N, 427,889 E

Elevation: 387.40 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
387.0						ORGANICS (0 to 0.2) PEAT; some cobbles, angular to subrounded; trace boulders, angular to subrounded; dark brown, spongy/loose, fibrous, frozen with root inclusions.		
						ORGANICS (0.2 to 0.5) PEAT; some cobbles, angular to subrounded; trace boulders, angular to subrounded; dark brown, spongy/loose, fibrous, wet with root inclusions.		
1.0		GB	BU-1			SAND/SILT (0.5 to 1.5) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; well graded, light brown, compact to loose, massive, wet to saturated. Silt content decreases with depth.		
386.0						End of Test Pit: 1.5 m		
2.0								
385.0								
3.0								
384.0								Test pit located in area of mature spruce and cedar trees.
4.0								Groundwater infilling from 0.5 m.
383.0								Refusal due to bedrock at 1.5 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.53

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-19

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 4 Feb 13

Location: Freshwater Diversion

Total Depth: 1.80 m


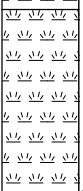
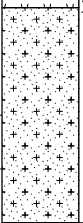
Date Completed: 4 Feb 13

Coordinates: 5,272,125 N, 427,766 E

Elevation: 386.20 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
386.0						ORGANICS (0 to 0.3) Moss; grass; shrubs; frozen.		
						ORGANICS (0.3 to 1) PEAT; dark brown, spongy, fibrous, frozen with root inclusions.		
1.0	385.0	GB	BU-1			SAND/SILT (1 to 1.8) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to rounded; some cobbles, subrounded to rounded; trace boulders, subrounded; well graded, grey, compact to loose, massive, wet to saturated.		
2.0	384.0					End of Test Pit: 1.8 m		
3.0	383.0							
4.0	382.0							Test pit located in dense spruce stand with poplar trees. Easy digging. Pit walls stable. Groundwater infilling from peat layer. Refusal due to bedrock at 1.8 m depth.

SAMPLING SYMBOLS:

 GRAB  BLOCK

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FIGURE A2.55

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-20

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 9 Feb 13

Location: Freshwater Diversion

Total Depth: 2.80 m

Date Completed: 9 Feb 13

Coordinates: 5,265,937 N, 430,808 E

Elevation: 384.80 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	384.0	GB	BU-1			ORGANICS (0 to 0.3) Moss; grass; peat; frozen.		
						ORGANICS (0.3 to 0.5) PEAT; dark brown, spongy, fibrous, saturated with root inclusions.		
						SAND/SILT (0.5 to 0.6) Silty; SAND, fine; poorly graded, dark grey, loose, massive, wet with root inclusions.		
1.0						SAND/SILT (0.6 to 1.8) SAND, fine; AND SILT; trace boulders, angular; poorly graded, grey, compact, stratified, saturated.		
	383.0	GB	BU-2			SILT (1.8 to 2.3) SILT; some sand, fine; trace clay, non-plastic, light grey, stiff or very stiff, stratified, saturated.		
						SILT/SAND (2.3 to 2.8) SILT; AND SAND, fine to coarse; MANY BOULDERS, subrounded; some gravel, fine to coarse; angular to subrounded; some cobbles, subangular to subrounded; well graded, grey, massive, dense, saturated.		
	382.0					End of Test Pit: 2.8 m		
	381.0							Test pit located between two bedrock outcrops with alders and spruce trees.
	380.0							Pit walls not very stable.
								Groundwater infilling at bedrock interface.
								Refusal due to bedrock at 2.8 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

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FIGURE A2.56

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-21

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 30 Jan 13

Location: Freshwater Diversion

Total Depth: 1.00 m

Date Completed: 30 Jan 13

Coordinates: 5,267,297 N, 428,239 E

Elevation: 389.20 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
389.0		GB	BU-1			<p>ORGANICS (0 to 0.2) PEAT; AND BOULDERS, angular; some cobbles, angular; some gravel, fine to coarse, angular; dark brown, spongy, fibrous, moist with root inclusions.</p> <p>SILT (0.2 to 0.8) SILT; some sand, fine to coarse; trace gravel, fine to coarse, angular; non-plastic, light brown/mottled orange, firm to stiff, massive, moist with root inclusions.</p>		
1.0						<p>WEATHERED BEDROCK (0.8 to 1) WEATHERED BEDROCK. End of Test Pit: 1 m</p>		
388.0								
2.0								
387.0								
3.0								
386.0								
4.0								
385.0								

Test pit located in a small valley connecting two water bodies.

Easy digging.

Pit walls stable.

Groundwater infilling from bedrock.

Refusal due to bedrock at 0.8 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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FIGURE A2.57

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-FD-22

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 6 Feb 13

Location: Freshwater Diversion

Total Depth: 2.20 m

Date Completed: 6 Feb 13

Coordinates: 5,272,551 N, 427,778 E

Elevation: 388.20 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
388.0						ORGANICS (0 to 0.4) Moss; peat; dark brown, spongy, fibrous, frozen with root inclusions.		
1.0						ORGANICS (0.4 to 1.1) PEAT; some cobbles, subangular to subrounded; trace boulders, subangular to subrounded; dark brown, spongy/loose, fibrous, saturated with root inclusions.		
387.0						TILL (1.1 to 2.2) Gravelly, fine to coarse, subangular to rounded; SAND; fine to coarse; some silt; well graded, grey, loose, massive, saturated.		
2.0		GB	BU-1			End of Test Pit: 2.2 m		
386.0								
3.0								
385.0								
4.0								
384.0								

Test pit located in spruce stand.
Pit walls relatively stable.
Groundwater infilling quickly from peat layer.
Refusal due to suspected bedrock at 2.2 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.58

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-01

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 10 Feb 13

Location: Pit Overburden

Total Depth: 2.20 m

Date Completed: 10 Feb 13

Coordinates: 5,266,624 N, 430,872 E

Elevation: 387.30 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
387.0		GB	BU-1			ORGANICS (0 to 0.3) PEAT; some boulders, subangular to rounded; some cobbles, subangular to subrounded; some gravel, coarse, angular to subrounded.		
1.0		GB	BU-2			SAND/SILT (0.3 to 1) Silty; SAND, fine; trace gravel, fine, subangular; poorly graded, dark grey.		
386.0		GB	BU-2			SAND/SILT (1 to 1.8) SAND, fine to coarse; AND SILT; some cobbles, subangular to rounded; trace gravel, fine to coarse, angular to subrounded; trace clay; well graded, light brownish grey, compact, massive, saturated.		
2.0		GB	BU-3			SAND/SILT (1.8 to 2.2) SAND, fine to coarse; AND SILT; some gravel, fine to coarse, angular to subrounded; some cobbles, subrounded to rounded; trace clay; well graded, dark grey, compact to dense, massive, saturated.		
385.0						End of Test Pit: 2.2 m		
384.0								Test pit located in area with ash / birch / spruce and balsam trees.
4.0								Groundwater infilling from peat layer at 0.3 m and from sand at 1.2 m depth. Water pooling at base of pit.
383.0								Refusal due to bedrock at 2.2 m depth.
								Grain size generally increases with depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.1

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-02

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 10 Feb 13

Location: Pit Overburden

Total Depth: 2.70 m

Date Completed: 10 Feb 13

Coordinates: 5,266,349 N, 430,759 E

Elevation: 387.10 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
387.0						ORGANICS (0 to 0.2) Moss; shrubs; grass; peat; frozen.		
						BOULDERS AND ORGANICS (0.2 to 1.2) BOULDERS, angular; AND PEAT; many cobbles, angular; some gravel, coarse, angular; dark brown, saturated, with root inclusions.		
1.0	386.0	GB	BU-1			SILT/SAND (1.2 to 1.5) Sandy, fine; SILT; non-plastic, grey, firm, stratified, wet.		
						BOULDERS (1.5 to 2.7) BOULDERS, angular; MUCH SILT; MUCH SAND, fine; some cobbles, angular; trace clay; grey, loose to compact, massive, saturated.		
2.0	385.0	GB	BU-2					
						End of Test Pit: 2.7 m		
3.0	384.0							
4.0	383.0							Test pit located in area between two hills with spruce and birch trees. Gronwater infilling rapidly from 0.5 m depth. Water inflowing from peat later is clear. Refusal due to suspected bedrock at 2.7 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.2

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-03

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 10 Feb 13

Location: Pit Overburden

Total Depth: 1.80 m

Date Completed: 10 Feb 13

Coordinates: 5,266,639 N, 431,024 E

Elevation: 388.00 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.5) PEAT; some boulders, subangular; dark brown, spongy, fibrous, moist, with root inclusions.		
1.0	387.0	GB	BU-1			SILT (0.5 to 1.8) SILT; some sand, fine; trace clay; trace gravel, fine to coarse, angular to rounded; non-plastic, grey/mottled brown, stiff, stratified, wet.		
						End of Test Pit: 1.8 m		
2.0	386.0							
3.0	385.0							
4.0	384.0							Test pit located at bottom of slope in old growth cedar and spruce trees. Pit walls stable. Small pool of water at base of test pit. Refusal due to bedrock at 1.8 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.3

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-04

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 9 Feb 13

Location: Pit Overburden

Total Depth: 0.90 m

Date Completed: 9 Feb 13

Coordinates: 5,266,176 N, 430,799 E

Elevation: 385.50 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	385.0	GB	BU-1			<p>ORGANICS (0 to 0.1) PEAT; some boulders, angular to subangular; dark brown, spongy, fibrous, frozen with root inclusions.</p> <p>SILT/SAND (0.1 to 0.9) SILT; AND SAND, fine to coarse; MANY BOULDERS, angular to subangular; some cobbles, angular to subrounded; some gravel, fine to coarse, angular to subrounded; trace clay; well graded, orangeish to greyish brown, loose, massive, moist.</p>		
1.0						End of Test Pit: 0.9 m		
	384.0							
2.0								
	383.0							
3.0								
	382.0							Test pit located in area with spruce trees.
4.0								Pit walls stable.
	381.0							No groundwater encountered.
								Refusal due to bedrock at 0.9 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.4

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-05

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 9 Feb 13

Location: Pit Overburden

Total Depth: 4.50 m

Date Completed: 9 Feb 13

Coordinates: 5,266,224 N, 430,957 E

Elevation: 382.70 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) Moss; shrubs; grass; peat; frozen.		
						ORGANICS (0.2 to 3) PEAT; dark brown, spongy, fibrous, wet with wood inclusions.		
382.0								
1.0								
381.0								
2.0								
380.0								
3.0						ORGANIC SILT (3 to 3.2) ORGANIC SILT; plastic, greenish grey, fibrous, wet with plant and shell inclusions.		
		GB	BU-1			SILT (3.2 to 4) SILT; trace clay; trace sand, fine; non-plastic, grey, stiff to very stiff, stratified, wet.		Test pit located in valley with spruce birch and alders.
379.0								Pit walls stable until 4.2 m.
4.0						TILL (4 to 4.5) Sandy, fine to coarse; gravelly, fine to coarse, angular; SILT; trace clay; well graded, blueish grey, dense, massive, saturated.		Groundwater trickling in from 0.5 m.
		GB	BU-2					Refusal due to suspected bedrock at 4.5 m depth.
378.0						End of Test Pit: 4.5 m		

SAMPLING SYMBOLS:

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FIGURE A2.5

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-06

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 9 Feb 13

Location: Pit Overburden

Total Depth: 2.00 m

Date Completed: 9 Feb 13

Coordinates: 5,266,003 N, 430,275 E

Elevation: 391.40 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
391.0		GB	BU-1			ORGANICS (0 to 0.1) Sandy, fine to coarse; PEAT; dark brown, spongy, fibrous, frozen with root inclusions.		
1.0						SILT/SAND (0.1 to 0.5) SILT; AND SAND; fine to coarse; some gravel, fine to coarse, angular to subangular; trace cobbles, angular to subrounded; trace boulders, subangular; well graded, orangeish brown, loose to compact, massive, moist with root inclusions.		
390.0						SAND/SILT (0.5 to 2) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; trace cobbles, angular to subrounded; trace boulders, subangular; well graded, grey, loose to compact, massive, moist.		
2.0		GB	BU-2			End of Test Pit: 2 m		
389.0								
3.0								
388.0								
4.0								
387.0								

Test pit located in jack pine plantation at crest of a slope.
Pit walls stable.
No groundwater encountered.
Refusal due to bedrock at 2.0 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.6

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-07

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 22 Feb 13

Location: Pit Overburden

Total Depth: 0.80 m

Date Completed: 22 Feb 13

Coordinates: 5,265,628 N, 430,784 E

Elevation: 391.10 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
391.0						ORGANICS (0 to 0.2) PEAT; frozen with root inclusions.		
		GB	BU-1			SAND/SILT (0.2 to 0.8) Silty; SAND, fine to medium; MANY COBBLES, angular; MANY BOULDERS, angular; some gravel, fine to coarse, angular; trace clay; well graded, light brown, loose to compact, massive, moist. Suspect gravel/cobbles/boulders are weathered/fractured bedrock.		
1.0						End of Test Pit: 0.8 m		
390.0								
2.0								
389.0								
3.0								
388.0								
4.0								No groundwater encountered. Refusal due to bedrock at 0.8 m depth.
387.0								

SAMPLING SYMBOLS:

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.7

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-08

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 7 Feb 13

Location: Pit Overburden

Total Depth: 3.00 m

Date Completed: 7 Feb 13

Coordinates: 5,265,453 N, 430,642 E

Elevation: 385.30 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	385.0	GB	BU-1			ORGANICS (0 to 0.1) PEAT; frozen with root inclusions.		
						TILL (0.1 to 0.9) Silty; SAND, fine to coarse; AND GRAVEL, fine to coarse, subangular to rounded; some cobbles, angular to subrounded; trace boulders, subangular; trace clay; well graded, light brown, loose to compact, massive, wet.		
1.0	384.0	GB	BU-2			TILL (0.9 to 1.7) SAND, fine to coarse; AND GRAVEL, fine to coarse, angular to subrounded; MANY COBBLES, angular to subrounded, some boulders, angular to subrounded; some silt; trace clay; well graded, blueish grey, dense, massive, saturated with root inclusions.		
2.0						TILL (1.7 to 2.3) Silty; SAND, fine to coarse; AND GRAVEL, fine to coarse, angular to subrounded; MANY COBBLES, angular to rounded; some boulders, angular to subrounded; trace clay, well graded, brown, compact, massive, saturated.		
3.0	383.0					TILL (2.3 to 3) SAND, fine to coarse; AND GRAVEL, fine to coarse, angular to subangular; MANY COBBLES, angular to subangular, some boulders, angular to subangular; some silt; trace clay; well graded, blueish grey, very dense, massive, saturated with trace root inclusions.		
						End of Test Pit: 3 m		Test pit located between small hill and water body in jack pine stand. Pit walls sloughing below 1.7 m. Groundwater infilling at 1.0 m. End of test pit due to slough/water at 3.0 m depth.
	382.0							
	381.0							

SAMPLING SYMBOLS:

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FIGURE A2.8

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-09

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 7 Feb 13

Location: Pit Overburden

Total Depth: 1.00 m

Date Completed: 7 Feb 13

Coordinates: 5,265,270 N, 430,614 E

Elevation: 387.70 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.1) PEAT; sandy, fine to coarse; frozen with root inclusions.		
		GB	BU-1			SILT/SAND (0.1 to 0.3) Sandy, fine; SILT; frozen.		
	387.0	GB	BU-2			SILT/SAND (0.3 to 0.5) Sandy, fine; SILT; trace cobbles, subangular; non-plastic, orangeish brown, soft, massive, moist with root inclusions.		
1.0						TILL (0.5 to 1) Gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; MANY COBBLES, angular to subangular; some silt; trace clay; well graded, brown, compact to dense, massive, wet to saturated with trace root inclusions. End of Test Pit: 1 m		
	386.0							
2.0								
	385.0							
3.0								
	384.0							Test pit located in jack pine stand with some poplar trees.
4.0								Easy digging.
	383.0							Groundwater at bedrock.
								Refusal due to weathered bedrock at 1.0 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.9

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-10

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 2 Feb 13

Location: Pit Overburden

Total Depth: 2.00 m

Date Completed: 2 Feb 13

Coordinates: 5,265,988 N, 429,972 E

Elevation: 388.40 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
388.0						ORGANICS (0 to 0.1) PEAT; some sand, fine to coarse; some boulders, subangular; brown, spongy, fibrous with root inclusions.		
1.0		GB	BU-1			SAND/SILT (0.1 to 0.5) Silty; SAND, fine to coarse; trace gravel, fine to coarse, subrounded to rounded; trace boulders, subangular; trace cobbles, subangular to subrounded; poorly graded, orangeish brown, loose to compact, massive, moist with root inclusions.		
387.0						SAND/SILT (0.5 to 2) SAND, fine to coarse; AND SILT; some gravel, fine to coarse, angular to subrounded; trace cobbles, angular to rounded; trace boulders, subangular; trace clay; well graded, greyish brown, compact to dense, massive, moist.		
2.0						End of Test Pit: 2 m		
386.0								
3.0								
385.0								
4.0								
384.0								

Test pit located in planted jack pine stand on gentle slope.

Easy digging.

Pit walls stable.

No groundwater encountered.

Refusal due to bedrock at 2.0 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.10

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-11

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 2 Feb 13

Location: Pit Overburden

Total Depth: 2.20 m

Date Completed: 2 Feb 13

Coordinates: 5,265,712 N, 430,019 E

Elevation: 390.40 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	390.0	GB	BU-1			<p>ORGANICS (0 to 0.1) PEAT; some sand, fine to coarse; reddish brown, spongy, fibrous, frozen with root inclusions.</p> <p>SAND/SILT (0.1 to 0.6) Silty; SAND, fine to medium; trace cobbles, subangular; trace boulders, subangular; trace gravel, fine to coarse, subangular to rounded; poorly graded, orangeish brown, loose, massive, moist with root inclusions.</p>		
	1.0	GB	BU-2			<p>TILL (0.6 to 2.2) Gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; some silt; some cobbles, subangular to subrounded; trace boulders, subangular; trace clay; well graded, greyish brown, loose, massive, moist to wet.</p>		
	389.0							
	2.0	GB	BU-3					
	388.0					End of Test Pit: 2.2 m		
	387.0							
	4.0							Test pit located at bottom of gentle slope with jack pine / birch / spruce / balsam and poplar trees.
	386.0							Easy digging. Pit walls stable. Refusal due to bedrock at 2.2 m depth. Gravel/cobble content and sand grain size generally increases with depth.

SAMPLING SYMBOLS:

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FIGURE A2.11

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-12

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 7 Feb 13

Location: Pit Overburden

Total Depth: 1.70 m

Date Completed: 7 Feb 13

Coordinates: 5,265,283 N, 430,110 E

Elevation: 397.70 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.1) Sandy, fine; PEAT; brown, spongy, fibrous, frozen.</p>		
		GB	BU-1			<p>SILT/SAND (0.1 to 0.2) Sandy, fine; SILT; trace boulders, subangular; non-plastic, orange, soft, massive, frozen with root inclusions.</p>		
1.0	397.0					<p>SILT/SAND (0.2 to 0.5) Sandy, fine; SILT; trace boulders, subangular; trace gravel, fine, subangular to subrounded; non-plastic, orange, soft, massive, frozen with root inclusions.</p>		
		GB	BU-2			<p>SAND/SILT (0.5 to 0.7) SAND, fine to coarse; AND SILT; trace gravel, fine to coarse, subangular to subrounded; trace boulders, subangular; poorly graded, light brown, massive, loose, moist with root inclusions.</p>		
						<p>TILL (0.7 to 1.7) Silty; gravelly, fine to coarse, subangular to subrounded; SAND, fine to coarse; trace boulders, subangular; trace cobbles, subangular to subrounded; well graded, greyish brown, loose to compact, massive, moist with trace root inclusions.</p>		
2.0	396.0					End of Test Pit: 1.7 m		
3.0	395.0							
4.0	394.0							Test pit located on North side of Chester Road in jack pine plantation.
								Easy digging.
								Pit walls stable.
								No groundwater encountered.
								Refusal due to bedrock at 1.7 m depth.
								Grain size generally increases with depth.

SAMPLING SYMBOLS:

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FIGURE A2.12

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-13

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 2 Feb 13

Location: Pit Overburden

Total Depth: 1.50 m

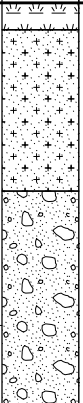
Date Completed: 2 Feb 13

Coordinates: 5,265,497 N, 429,519 E

Elevation: 388.30 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
388.0						<p>ORGANICS (0 to 0.1) PEAT; some boulders, subangular; some cobbles, subangular to subrounded; dark brown, spongy, fibrous, frozen with root inclusions.</p> <p>SAND/SILT (0.1 to 0.7) Silty; SAND, fine to coarse; MANY BOULDERS, angular to subangular; some cobbles, angular to subrounded; some gravel, fine to coarse, angular to rounded; well graded, orangeish brown, compact, massive, moist.</p> <p>TILL (0.7 to 1.5) Gravelly, fine to coarse, angular to rounded; SAND, fine to coarse; MANY BOULDERS, subangular to subrounded; some silt; some cobbles, angular to subrounded; well graded, greyish brown, compact, massive, moist with root inclusions.</p>		
387.0		GB	BU-1			End of Test Pit: 1.5 m		<p>Test pit located in jack pine plantation with poplar trees.</p> <p>Some difficulties digging in boulders and cobbles.</p> <p>Pit walls stable.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 1.5 m depth.</p>
386.0								
385.0								
384.0								

SAMPLING SYMBOLS:

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.13

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-14

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 3 Feb 13

Location: Pit Overburden

Total Depth: 3.60 m

Date Completed: 3 Feb 13

Coordinates: 5,265,613 N, 429,295 E

Elevation: 387.50 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	387.0					ORGANICS (0 to 0.2) Moss; shrubs.		
						ORGANICS (0.2 to 0.5) PEAT; dark brown, spongy, fibrous, frozen.		
						ORGANICS (0.5 to 3.6) PEAT; dark brown, spongy, saturated with decaying plant/wood and root inclusions.		
1.0								
	386.0							
2.0								
	385.0							
3.0								
	384.0							Test pit located in wetland with cattails and shrubs.
								Saturated below frost at 0.3 m. Rapid inflow of groundwater at 2.0 m.
4.0								End of test pit due to slough and water at 3.6 m depth.
	383.0							Ground becomes firm at 3.6 m; possibly start of sand and silt.
						End of Test Pit: 3.6 m		

SAMPLING SYMBOLS:

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.14

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-15

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 2 Feb 13

Location: Pit Overburden

Total Depth: 4.00 m

Date Completed: 2 Feb 13

Coordinates: 5,265,603 N, 429,041 E

Elevation: 387.50 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.4) Shrubs; moss; cat tails.		
	387.0					ORGANICS (0.4 to 0.6) PEAT; frozen.		
1.0						ORGANICS (0.6 to 1.2) PEAT; reddish brown, spongy, fibrous, wet.		
	386.0	GB	BU-1			SAND/SILT (1.2 to 2) Silty; SAND, fine; poorly graded, brownish grey, compact, stratified, wet.		
2.0						SILT (2 to 4) SILT; some sand; fine; trace clay; low plasticity; grey, firm to hard, stratified friable, wet to saturated.		
	385.0							
3.0		GB	BU-2					
	384.0							Test pit located close to shore of Clam Lake.
4.0								Groundwater infilling from 0.6 m.
	383.0					End of Test Pit: 4 m		End of test pit due to slough at 4.0 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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FIGURE A2.15

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-16

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 1 Feb 13

Location: Pit Overburden

Total Depth: 2.00 m

Date Completed: 1 Feb 13

Coordinates: 5,266,104 N, 428,931 E

Elevation: 395.50 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	395.0	GB	BU-1			<p>ORGANICS (0 to 0.2) PEAT; dark brown, spongy, fibrous, moist with root inclusions. Moss at surface.</p> <p>SILT/SAND (0.2 to 0.7) Sandy, fine; SILT; low plasticity, mottled brown/grey/orange, firm, friable, wet.</p>		
1.0						<p>SAND/SILT (0.7 to 1.3) Silty; SAND, fine to coarse; some gravel, fine; poorly graded, light brown, loose to compact, stratified, wet.</p>		
	394.0	GB	BU-2			<p>SAND (1.3 to 2) SAND, fine to coarse; some silt; some gravel, fine to coarse, angular to rounded; trace cobbles, subrounded; well graded, light brown, loose, stratified, saturated. Graded layers of sand.</p>		
2.0						End of Test Pit: 2 m		
3.0	393.0							
4.0	392.0							Test pit located on high ground with mature spruce redpine and poplar.
								Sand flows at 1.5 m.
								Groundwater infilling from coarse sand at 1.3 m.
	391.0							Refusal due to bedrock at 2.0 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.16

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-17

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 1 Feb 13

Location: Pit Overburden

Total Depth: 0.30 m

Date Completed: 1 Feb 13

Coordinates: 5,266,128 N, 428,840 E

Elevation: 394.60 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	394.0					<p>ORGANICS (0 to 0.3) PEAT; some sand, fine; some silt; dark brown/orangeish brown, spongy, fibrous, frozen/moist with root inclusions. End of Test Pit: 0.3 m</p>		
1.0								
	393.0							
2.0								
	392.0							
3.0								
	391.0							Test pit located in area of mature pine / spruce / balsam and birch trees.
4.0								Easy digging.
	390.0							No groundwater encountered.
								Refusal due to bedrock at 0.3 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.17

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-18

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 1 Feb 13

Location: Pit Overburden

Total Depth: 0.90 m

Date Completed: 1 Feb 13

Coordinates: 5,266,595 N, 428,844 E

Elevation: 404.20 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
404.0		GB	BU-1			<p>ORGANICS (0 to 0.2) PEAT; some sand, fine to coarse; trace boulders, angular; greyish brown, spongy, fibrous, frozen with root inclusions.</p> <p>SAND/SILT (0.2 to 0.9) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; trace boulders, angular to subrounded; trace cobbles, angular to subrounded; poorly graded, orangeish brown, loose, massive, moist with root inclusions.</p>		
1.0						End of Test Pit: 0.9 m		
403.0								
2.0								
402.0								
3.0								
401.0								
4.0								
400.0								

Test pit located in semi mature jack pine plantation.

Easy digging.

Pit walls stable.

No groundwater encountered.

Refusal due to bedrock at 0.9 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

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FIGURE A2.18

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-19

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 31 Jan 13

Location: Pit Overburden

Total Depth: 2.90 m

Date Completed: 31 Jan 13

Coordinates: 5,266,864 N, 428,704 E

Elevation: 396.60 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; some boulders, angular to subangular; dark brown, spongy, fibrous, moist with root inclusions.		
	396.0	GB	BU-1			SILT/SAND (0.2 to 0.8) Sandy, fine; SILT; low plasticity, greyish brown, firm, stratified, wet.		
1.0						SAND (0.8 to 2.8) SAND, fine to medium; some silt; trace gravel, fine, angular; poorly graded, loose to compact, stratified, saturated.		
	395.0							
	394.0	GB	BU-2			SAND (2.8 to 2.9) SAND, medium to coarse; poorly graded, loose, stratified, saturated.		
3.0						End of Test Pit: 2.9 m		
	393.0							Test pit located beside small creek or spring in area of mature poplar and red pine trees.
	392.0							Some difficulty digging due to sand sloughing.
								Groudwater infilling from sand and rapidly from bedrock interface.
								Refusal due to bedrock at 2.9 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.19

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-20

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 31 Jan 13

Location: Pit Overburden

Total Depth: 1.10 m

Date Completed: 31 Jan 13

Coordinates: 5,266,826 N, 428,892 E

Elevation: 395.50 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	395.0					<p>ORGANICS (0 to 0.2) PEAT; some boulders, angular; brown, spongy, fibrous, frozen with root inclusions.</p> <p>SILT/SAND (0.2 to 1.1) SILT; AND SAND, fine to coarse; some gravel, fine to coarse, angular to subrounded; trace cobbles, subrounded; trace boulders, subrounded; non-plastic, light brown, firm to stiff, massive, moist with some root inclusions.</p>		
	1.0	GB	BU-1			End of Test Pit: 1.1 m		
	394.0							
	2.0							
	393.0							
	3.0							
	392.0							Test pit located in area of mature red pine and spruce trees at crest of steep slope into Clam Lake.
	4.0							Easy digging.
								No groundwater encountered.
	391.0							Refusal due to bedrock at 1.1 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.20

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-21

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 31 Jan 13

Location: Pit Overburden

Total Depth: 1.80 m

Date Completed: 31 Jan 13

Coordinates: 5,267,035 N, 428,944 E

Elevation: 391.50 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	391.0	GB	BU-1			<p>ORGANICS (0 to 0.1) PEAT; some boulders, angular to subangular; some cobbles, angular to subangular; dark greyish brown, spongy, fibrous, frozen/dry with root inclusions.</p> <p>SAND/SILT (0.1 to 1.2) Silty; SAND, fine to coarse; some gravel, fine to coarse; angular to subrounded; trace cobbles, subangular to subrounded; trace boulders, subangular to subrounded; poorly graded, orange, massive, loose to compact, moist with root inclusions.</p>		
	390.0	GB	BU-2			<p>TILL (1.2 to 1.8) Silty; gravelly, fine to coarse, angular to subrounded; SAND, fine to coarse; trace cobbles, angular to subangular; well graded, greyish brown, compact to very dense, massive, wet.</p>		
						End of Test Pit: 1.8 m		
	389.0							
	388.0							
	387.0							

Test pit located in small valley leading to Clam Lake with poplar / pine / spruce and jack pine trees.

Easy digging.

Groundwater slowly infilling at bedrock interface.

Refusal due to bedrock at 1.8 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.21

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-22

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 1 Feb 13

Location: Pit Overburden

Total Depth: 1.30 m

Date Completed: 1 Feb 13

Coordinates: 5,267,028 N, 428,679 E

Elevation: 389.30 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
389.0						<p>ORGANICS (0 to 0.1) Sandy, fine to coarse; PEAT; some boulders, angular to subrounded; trace cobbles, angular to subrounded; brown, spongy, fibrous, frozen with root inclusions.</p> <p>SAND/SILT (0.1 to 1.3) Silty; SAND, fine to coarse; some gravel, fine to coarse, angular to rounded; trace cobbles, subrounded; trace boulders, subrounded; poorly graded, orangeish brown, loose to compact, massive, moist with some root inclusions.</p>		
1.0		GB	BU-1					
388.0						End of Test Pit: 1.3 m		
2.0								
387.0								
3.0								
386.0								
4.0								
385.0								

Test pit located between two arms of Clam Lake with poplar / pine and spruce trees.

Easy digging.

No groundwater encountered.

Refusal due to bedrock at 1.3 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.22

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-23

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 31 Jan 13

Location: Pit Overburden

Total Depth: 0.50 m

Date Completed: 31 Jan 13

Coordinates: 5,267,169 N, 428,773 E

Elevation: 389.50 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	389.0	GB	BU-1			<p>ORGANICS (0 to 0.1) PEAT; MUCH BOULDERS, angular to subangular; some cobbles, angular to rounded; brown, spongy, fibrous, dry with root inclusions.</p> <p>SAND/SILT (0.1 to 0.5) Silty; SAND, fine to coarse; MANY BOULDERS, angular to subangular; some cobbles, angular to subangular; trace gravel, angular to subrounded; well graded, brownish orange, loose, massive, dry with root inclusions.</p> <p>End of Test Pit: 0.5 m</p>		
1.0								
	388.0							
2.0								
	387.0							
3.0								
	386.0							Test pit located on local high spot with mature pine and spruce.
4.0								Easy digging.
	385.0							No groundwater encountered.
								Refusal due to bedrock at 0.5 m depth.

SAMPLING SYMBOLS:

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.23

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-24

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 31 Jan 13

Location: Pit Overburden

Total Depth: 0.80 m

Date Completed: 31 Jan 13

Coordinates: 5,267,220 N, 428,899 E

Elevation: 387.50 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS AND BOULDERS (0 to 0.4) PEAT; AND BOULDERS, angular; many cobbles, angular; some gravel, fine to coarse, angular; dark brown, spongy, fibrous, saturated with root inclusions.		
	387.0					SAND/SILT (0.4 to 0.8) SAND, fine to coarse; AND SILT; some gravel, fine to coarse, angular to subangular; some boulders, angular; trace cobbles; well graded, orangeish brown/brown, compact, massive, saturated.		
	1.0					End of Test Pit: 0.8 m		
	386.0							
	2.0							
	385.0							
	3.0							
	384.0							Test pit located near stream bed with alders / birch and spruce trees.
	4.0							Some difficulty digging due to water and boulders.
								Groundwater infilling rapidly at 0.5 m.
	383.0							Refusal due to bedrock at 0.8 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.24

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-25

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 30 Jan 13

Location: Pit Overburden

Total Depth: 4.00 m

Date Completed: 30 Jan 13

Coordinates: 5,267,694 N, 429,526 E

Elevation: 391.80 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	391.0					ORGANICS (0 to 1.4) PEAT; dark brown, spongy, fibrous, wet with root and decaying wood inclusions.		
	390.0	GB	BU-1			TILL (1.4 to 4) Silty; gravelly, fine to coarse, subangular to rounded; SAND, fine to coarse; trace clay; trace boulders, subrounded; trace cobbles, subrounded; well graded, grey, compact, massive, saturated.		
	389.0							
	388.0							Test pit located at bottom of a slope in a spruce stand with moss cover.
	387.0					End of Test Pit: 4 m		Organics layer stable but pit walls unstable from 2.0 to 2.4 m depth.
								Groundwater trickling in from peat layer.
								Refusal due to bedrock at 4.0 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.25

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-26

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 30 Jan 13

Location: Pit Overburden

Total Depth: 0.10 m

Date Completed: 30 Jan 13

Coordinates: 5,267,679 N, 429,706 E

Elevation: 395.40 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	395.0					ORGANICS (0 to 0.1) PEAT; trace sand, fine to coarse; trace gravel, fine to coarse, angular; reddish brown, spongy, fibrous, frozen with root and moss inclusions. End of Test Pit: 0.1 m		Test pit located in area of spruce / poplar and birch trees. Bedrock is not visible at surface. Easy digging. No groundwater encountered. Refusal due to bedrock at 0.1 m depth. Area surrounded by suspected bedrock knobs and microvalleys (not representative of area).
	1.0							
	394.0							
	2.0							
	393.0							
	3.0							
	392.0							
	4.0							
	391.0							

SAMPLING SYMBOLS:

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.26

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
 I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-27

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 30 Jan 13

Location: Pit Overburden

Total Depth: 2.20 m

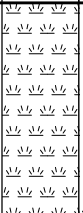
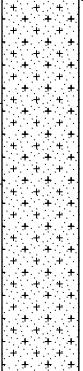
Date Completed: 30 Jan 13

Coordinates: 5,267,786 N, 429,787 E

Elevation: 391.00 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.8) PEAT; dark brown, spongy, fibrous, saturated with root and decaying wood inclusions.		
1.0	390.0	GB	BU-1			SILT/SAND (0.8 to 2.2) Sandy, fine to coarse; SILT; some gravel, fine to coarse, angular to subrounded; trace clay; trace cobbles, subrounded, trace boulders, subrounded; well graded, brownish grey, compact to very dense, massive, saturated.		
2.0	389.0					End of Test Pit: 2.2 m		
3.0	388.0							
4.0	387.0							Test pit located in lowlying flat area with mature spruce trees and moss on surface. Some sloughing in organic layer. Groundwater inflowing quickly from organic layer. Refusal due to bedrock at 2.2 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.27

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-28

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 30 Jan 13

Location: Pit Overburden

Total Depth: 1.50 m

Date Completed: 29 Jan 13

Coordinates: 5,267,799 N, 430,061 E

Elevation: 382.70 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	382.0					<p>ORGANICS (0 to 0.4) PEAT; some boulders, angular to subangular; some cobbles, angular to subangular; trace gravel, fine to coarse, angular; dark reddish brown, spongy, fibrous, frozen with root and plant inclusions.</p> <p>SILT/SAND (0.4 to 1.2) Sandy, fine; SILT; trace gravel, fine, subangular to subrounded; trace clay; non-plastic, grey/mottled light brown, friable, moist with root inclusions to 0.6 m.</p>		
	381.0	GB	BU-1			<p>TILL (1.2 to 1.5) Silty; gravelly, fine to coarse, angular to subangular; SAND, fine to coarse; trace clay; well graded, grey/mottled brown, dense, massive, moist.</p> <p>End of Test Pit: 1.5 m</p>		
	380.0							
	379.0							Test pit location surrounded with mature poplar / birch / spruce and cedar trees.
	378.0							Easy digging. Pit walls stable. No groundwater encountered. Refusal due to bedrock at 1.5 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.28

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-29

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Jan 13

Location: Pit Overburden

Total Depth: 2.40 m

Date Completed: 29 Jan 13

Coordinates: 5,267,589 N , 429,968 E

Elevation: 382.90 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	382.0	GB	BU-1			<p>ORGANICS (0 to 0.3) PEAT; some boulders, angular to subangular; some cobbles, angular to subangular; trace gravel, fine to coarse, angular to subrounded; trace sand, fine to coarse; dark reddish brown, spongy, fibrous, moist/frozen with root inclusions.</p> <p>SILT (0.3 to 2) SILT; some sand; fine; trace clay; trace gravel, fine, angular; low plasticity, light grey/mottled orangeish brown/light brown, firm to stiff, stratified/friable, moist. Stratified brown sand between mottled grey silt.</p>		
	381.0	GB	BU-2			<p>SAND/SILT (2 to 2.4) Silty; SAND, fine to coarse; some gravel, fine to coarse, subangular to subrounded; trace cobbles, subangular; trace boulders, subangular; poorly graded, light brown/grey, compact to dense, stratified/massive at bedrock, wet to saturated.</p> <p>End of Test Pit: 2.4 m</p>		<p>Test pit located in area of mature spruce and white birch trees.</p> <p>Pit walls become unstable at 1.9 m.</p> <p>Groundwater trickling in at bedrock interface.</p> <p>Refusal due to bedrock at 2.4 m depth.</p>
	380.0							
	379.0							
	378.0							

SAMPLING SYMBOLS:

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FIGURE A2.29

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-30

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 2.90 m

Date Completed: 29 Mar 13

Coordinates: 5,267,479 N, 429,020 E

Elevation: 397.00 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
1.0	396.0					ORGANICS (0 to 1.2) PEAT; black, plastic, amorphous, some boulders, rounded; grey, loose.		
2.0	395.0	GB	BU-1			SILT (1.2 to 2.9) SILT; MANY BOULDERS, subangular; trace sand, fine; trace clay; low plasticity, grey, firm, massive, moist to saturated.		
3.0	394.0					End of Test Pit: 2.9 m		Test pit located in gut between two small hills. Pit walls sloughing at 2.4 m. Groundwater iniling from 1.9 m. Refusal due to suspected bedrock at 2.9 m depth.
4.0	393.0							

SAMPLING SYMBOLS:

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FIGURE A2.30

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-31

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 0.80 m

Date Completed: 29 Mar 13

Coordinates: 5,267,739 N, 429,520 E

Elevation: 392.70 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.1) PEAT; dark brown, spongy, fibrous, frozen.</p> <p>SAND/SILT (0.1 to 0.8) Silty; SAND, fine to coarse; trace gravel, fine to coarse, subangular; poorly graded, non-plastic, light brown, dense, massive, dry.</p>		
1.0	392.0	GB	BU-1			End of Test Pit: 0.8 m		<p>Test pit located in gut between two hills.</p> <p>No groundwater encountered.</p> <p>Refusal due to bedrock at 0.8 m depth.</p>
2.0	391.0							
3.0	390.0							
4.0	389.0							
	388.0							

SAMPLING SYMBOLS:

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FIGURE A2.31

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-32

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 6.80 m

Date Completed: 29 Mar 13

Coordinates: 5,267,820 N, 429,643 E

Elevation: 389.40 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
389.0						ORGANICS (0 to 3.5) PEAT; dark brown to black, spongy to plastic, fibrous.		
388.0								
387.0								
386.0								
385.0		GB	BU-1			SILT (3.5 to 6.8) SILT; trace clay; trace sand, fine; medium plasticity, light grey, stiff, massive, moist.		
384.0								
383.0								
382.0								
381.0								
380.0								
						End of Test Pit: 6.8 m		Test pit located in large low lying swamp surrounded by hills. Pit walls sloughing from 5 m. Groundwater infilling at 5.5 m. Refusal due to suspected bedrock at 6.8 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.32

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-33

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 1.20 m

Date Completed: 29 Mar 13

Coordinates: 5,267,662 N, 429,616 E

Elevation: 392.50 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
		GB	BU-1			ORGANICS (0 to 0.1) PEAT; black, spongy, fibrous, moist.		
	392.0	GB	BU-2			SAND/SILT (0.1 to 0.4) Silty; SAND, fine to medium; well graded, non-plastic, light brown, compact, massive, moist.		
1.0						SILT (0.4 to 1.2) SILT; some sand, fine; medium plasticity, grey, stiff, massive, moist.		
						End of Test Pit: 1.2 m		
	391.0							
2.0								
	390.0							
3.0								
	389.0							Test pit located in low area beside a hill.
4.0								No groundwater encountered.
	388.0							Refusal due to bedrock at 1.2 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.33

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-34

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 1.80 m

Date Completed: 29 Mar 13

Coordinates: 5,267,682 N, 429,872 E

Elevation: 390.80 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
		GB	BU-1			ORGANICS (0 to 0.1) PEAT; black, spongy, fibrous, frozen.		
						SAND (0.1 to 0.3) SAND, fine to medium; some silt; well graded, light brown, compact, massive, frozen.		
	390.0					SAND/SILT (0.3 to 1.8) Silty; SAND, fine to coarse; some gravel, fine to coarse, subrounded; trace cobbles, subrounded; trace boulders, subrounded; trace clay; well graded, grey, compact, massive, dry.		
1.0		GB	BU-2					
	389.0					End of Test Pit: 1.8 m		
2.0								
	388.0							
3.0								
	387.0							
4.0								
	386.0							

Test pit located beside hill in lower area.
No groundwater encountered.
Refusal due to bedrock at 1.8 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.34

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-35

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 2.00 m

Date Completed: 29 Mar 13

Coordinates: 5,267,903 N, 429,942 E

Elevation: 404.30 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
404.0						ORGANICS (0 to 0.4) PEAT; black, spongy, fibrous, frozen.		
1.0		GB	BU-1			SAND/SILT (0.4 to 2) Silty; SAND, fine to coarse; trace gravel, fine to coarse, subrounded; trace cobbles, subrounded; trace clay; well graded, grey to light brown, compact, stratified, dry.		
403.0		GB	BU-2					
2.0						End of Test Pit: 2 m		
402.0								
3.0								
401.0								
4.0								
400.0								

Test pit located in elevated area.

No groundwater encountered.

Refusal due to bedrock at 2.0 m depth.

SAMPLING SYMBOLS:

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FIGURE A2.35

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-36

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 2.10 m

Date Completed: 29 Mar 13

Coordinates: 5,266,290 N, 430,490 E

Elevation: 383.30 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
383.0						ORGANICS (0 to 0.1) PEAT; dark brown, plastic, amorphous, moist.		
1.0						SILT (0.1 to 1.5) SILT; some sand, fine; trace clay; medium plasticity, grey to dark grey, stiff, stratified, moist.		
382.0		GB	BU-1			SAND/GRAVEL (1.5 to 2.1) SAND, fine to coarse; AND GRAVEL, fine to coarse, subrounded; some silt; some cobbles, subrounded to subangular; well graded, compact, massive, moist.		
2.0						End of Test Pit: 2.1 m		
381.0								
3.0								
380.0								
4.0								Test pit located in gut beside hill. Groundwater at surface and entering quickly at 0.2 m. Refusal due to bedrock at 2.1 m depth.
379.0								

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.36

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-37

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 6.40 m

Date Completed: 29 Mar 13

Coordinates: 5,266,301 N, 430,218 E

Elevation: 382.10 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
382.0						ORGANICS (0 to 1.8) PEAT; dark brown, plastic, fibrous, moist.		
381.0								
380.0		GB	BU-1			SILT/SAND (1.8 to 6.4) Sandy; fine; SILT; trace clay; poorly graded, low plasticity, grey, dense, massive, moist.		
379.0								
378.0								Test pit located in flat area in forest of very tall trees.
377.0								Pit walls sloughing at 2.5 m.
376.0								End of test pit due to slough at 6.4 m depth.
375.0						End of Test Pit: 6.4 m		

SAMPLING SYMBOLS:

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FIGURE A2.37

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-38

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 2.20 m

Date Completed: 29 Mar 13

Coordinates: 5,265,464 N, 429,385 E

Elevation: 388.70 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; dark brown, spongy, amorphous.		
	388.0	GB	BU-1			SAND/SILT (0.2 to 1.9) Silty; SAND, fine to coarse; some gravel, fine to coarse, subrounded; trace cobbles, subangular to subrounded; trace boulders, subrounded; trace clay; well graded, light brown, compact, massive, moist.		
	387.0							
	387.0	GB	BU-2			SAND (1.9 to 2.2) SAND, medium to coarse; some gravel, fine to coarse, subangular; some cobbles, subangular; poorly graded, grey, compact, massive, wet.		
						End of Test Pit: 2.2 m		
	386.0							
	385.0							Test pit located in small gut between two small mounds.
								Groundwater infilling from 1.7 m.
								Refusal due to bedrock at 2.2 m depth.
	384.0							

SAMPLING SYMBOLS:

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FIGURE A2.38

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-39

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 3.30 m



Date Completed: 29 Mar 13

Coordinates: 5,265,611 N, 429,358 E

Elevation: 387.30 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
387.0						ORGANICS (0 to 0.4) PEAT; black, spongy, fibrous, moist.		
1.0						SAND/SILT (0.4 to 3.3) SAND, fine to coarse; AND SILT; some gravel, fine to coarse, subrounded; some cobbles, subrounded; trace boulders, rounded; trace clay; well graded, grey, compact, stratified, moist to wet.		
386.0		GB	BU-1					
2.0								
385.0								
3.0								
384.0						End of Test Pit: 3.3 m		
4.0								Test pit located in gut between two steep hills. Pit walls unstable below 3 m. Groundwater infilling from 0.8 m. Refusal due to bedrock at 3.3 m depth.
383.0								

SAMPLING SYMBOLS:

GB GRAB  BLOCK

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FIGURE A2.39

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-40

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 2.70 m

Date Completed: 29 Mar 13

Coordinates: 5,265,837 N, 429,864 E

Elevation: 391.80 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
		GB	BU-1			ORGANICS (0 to 0.1) PEAT; black, spongy, fibrous.		
		GB	BU-2			SAND/SILT (0.1 to 2.7) Silty; SAND, fine to coarse; some gravel, fine to coarse, subangular; trace cobbles, subangular; trace boulders, subangular; trace clay; poorly graded, light brown to grey, loose to compact, dry.		
						End of Test Pit: 2.7 m		
391.0								
390.0								
389.0								
388.0								
387.0								

Test pit located in flat area with small rises to three sides.

No groundwater encountered.

Refusal due to bedrock at 2.7 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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FIGURE A2.40

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-PO-43

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 29 Mar 13

Location: Pit Overburden

Total Depth: 5.80 m

Date Completed: 29 Mar 13

Coordinates: 5,266,717 N, 430,542 E

Elevation: 390.70 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						<p>ORGANICS (0 to 0.1) PEAT; dark brown, spongy, fibrous, frozen.</p> <p>SAND (0.1 to 1) SAND, fine; some silt; trace gravel, fine, angular; trace clay; well graded, light brown, compact, massive, dry.</p> <p>SAND (1 to 5.8) SAND, fine to medium; trace cobbles, subrounded; well graded, grey, loose, massive, dry.</p>		
	390.0	GB	BU-1					
	389.0	GB	BU-2					
	388.0							
	387.0							
	386.0							Test pit located on hill. No groundwater encountered. Refusal due to bedrock at 5.8 m depth.
	385.0							
						End of Test Pit: 5.8 m		

SAMPLING SYMBOLS:

GB GRAB BLOCK

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CÔTÉ GOLD PROJECT

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.41

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-RCP-01

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 25 Feb 13

Location: Runoff Collection Pond

Total Depth: 2.20 m

Date Completed: 25 Feb 13

Coordinates: 5,268,509 N, 430,624 E

Elevation: 384.10 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	384.0					ORGANICS (0 to 0.1) PEAT; brownish green, spongy, fibrous, frozen.		
						ORGANICS (0.1 to 1) PEAT; trace boulders, rounded; poorly graded, black, spongy, amorphous, moist.		
1.0	383.0	GB	BU-1			SILT (1 to 1.3) SILT; some gravel, fine to coarse, subangular to rounded; trace clay; poorly graded, low plasticity, grey, stiff, massive, dry.		
						SAND/SILT (1.3 to 2.2) Silty; SAND, fine to coarse; some gravel, fine to coarse; trace cobbles; trace boulders; well graded, grey, loose, massive.		
2.0	382.0					End of Test Pit: 2.2 m		
3.0	381.0							
4.0	380.0							

Test pit located in forest on high area.
Pit walls sloughing at 1.8 m.
Groundwater infiling at 1.0 m.
Refusal due to suspected bedrock at 2.2 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

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FIGURE A2.59

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-RCP-02

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 24 Feb 12

Location: Runoff Collection Pond

Total Depth: 0.40 m

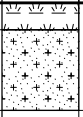
Date Completed: 24 Feb 12

Coordinates: 5,268,133 N, 430,365 E

Elevation: 390.60 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
		GB	BU-1			<p>ORGANICS (0 to 0.1) PEAT; dark brown, spongy, fibrous, frozen.</p> <p>SAND/SILT (0.1 to 0.4) Silty; SAND, fine; trace cobbles, angular; poorly graded, low plasticity, light brown, loose, stratified, dry to moist.</p> <p>End of Test Pit: 0.4 m</p>		
390.0								
1.0								
389.0								
2.0								
388.0								
3.0								
387.0								No groundwater encountered.
4.0								Refusal due to bedrock at 0.4 m depth.
386.0								

SAMPLING SYMBOLS:

 GRAB
  BLOCK

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FIGURE A2.60

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
 I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-RCP-03

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 24 Feb 12

Location: Runoff Collection Pond

Total Depth: 0.90 m

Date Completed: 24 Feb 12

Coordinates: 5,268,375 N, 430,216 E

Elevation: 386.40 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	386.0	GB	BU-1			ORGANICS (0 to 0.15) PEAT; dark brown, spongy, fibrous.		
		GB	BU-2			SAND/SILT (0.15 to 0.9) Silty; SAND, fine; some gravel, fine; trace clay; trace cobbles; well graded, medium plasticity, grey/brown, soft, stratified, wet.		
1.0						End of Test Pit: 0.9 m		
	385.0							
	384.0							
	383.0							
	382.0							
								No groundwater encountered. Refusal due to bedrock at 0.9 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

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FIGURE A2.61

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-RCP-04

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 24 Feb 12

Location: Runoff Collection Pond

Total Depth: 1.90 m

Date Completed: 24 Feb 12

Coordinates: 5,268,557 N, 430,375 E

Elevation: 382.30 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	382.0	GB	BU-1			ORGANICS (0 to 0.3) PEAT; black, spongy, amorphous, wet.		
	1.0	GB	BU-2			TILL (0.3 to 1.9) GRAVEL, fine to coarse, subangular to rounded; AND SAND, fine to coarse; some silt; trace clay; trace cobbles, subangular to rounded; trace boulders, subangular to rounded; well graded, non-plastic, dark grey, massive to laminated, saturated. Increasing boulder content with depth.		
	381.0							
	2.0					End of Test Pit: 1.9 m		
	380.0							
	3.0							
	379.0							
	4.0							Test pit located in bog. Pit walls sloughing at 1.1 m. Groundwater infilling from 1.1 m. End of test pit due to slough/water at 1.9 m depth.
	378.0							

SAMPLING SYMBOLS:

GB GRAB BLOCK

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FIGURE A2.62

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-01

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 22 Feb 13

Location: Mine Rock Area

Total Depth: 1.40 m

Date Completed: 22 Feb 13

Coordinates: 5,263,285 N, 430,560 E

Elevation: 404.20 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
404.0		GB	BU-1			ORGANICS (0 to 0.1) PEAT; with root inclusions.		
		GB	BU-2			SAND/SILT (0.1 to 0.4) Silty; SAND, fine to medium; trace clay; redish brown, loose, stratified, moist.		
1.0						SAND (0.4 to 1.1) SAND, fine to medium; some gravel, fine, subangular to rounded; brown/grey, loose, stratified.		
403.0						SAND (1.1 to 1.4) SAND, fine to medium; some gravel, fine to coarse, subangular to rounded; some cobbles, subangular to rounded; brown/grey, loose, stratified.		
						End of Test Pit: 1.4 m		
2.0								
402.0								
3.0								
401.0								
4.0								No groundwater encountered.
400.0								Refusal due to bedrock at 1.4 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

IAMGOLD CORPORATION
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FIGURE A2.63

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-01A

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 22 Feb 13

Location: Mine Rock Area

Total Depth: 1.80 m

Date Completed: 22 Feb 13

Coordinates: 5,263,400 N, 430,185 E

Elevation: 408.80 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.1) PEAT; with root inclusions.		
	408.0	GB	BU-1			SAND/SILT (0.1 to 0.3) Silty; SAND, fine; trace cobbles; trace boulders; poorly graded, brown, loose, massive, moist.		
1.0						SAND (0.3 to 0.9) SAND, medium to coarse; some silt; trace clay; brown, compact, stratified, moist.		
		GB	BU-2			SAND/SILT (0.9 to 1.8) Silty; SAND, coarse; some gravel, fine to coarse; trace clay; poorly graded, brown/grey, compact, stratified, moist.		
	407.0					End of Test Pit: 1.8 m		
	406.0							
	405.0							No groundwater encountered. Refusal due to bedrock at 1.8 m depth.
	404.0							

SAMPLING SYMBOLS:

GB GRAB BLOCK

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FIGURE A2.64

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-02

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 22 Feb 13

Location: Mine Rock Area

Total Depth: 1.50 m

Date Completed: 22 Feb 13

Coordinates: 5,263,261 N, 429,918 E

Elevation: 393.60 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; with root inclusions.		
	393.0	GB	BU-1			SAND (0.2 to 0.5) SAND, fine; some silt; trace clay; trace boulders; well graded, brown, loose, moist.		
1.0						SAND/SILT (0.5 to 1) Silty; SAND, fine to medium, trace clay; grey/brown, stiff to compact, stratified, moist.		
		GB	BU-2			SAND/SILT (1 to 1.5) Silty; SAND, fine to coarse; some gravel, fine, angular; some cobbles; trace clay; well graded, low plasticity, light brown, compact, stratified, moist.		
392.0						End of Test Pit: 1.5 m		
2.0								
391.0								
3.0								
390.0								Test pit located at bottom of a gully.
4.0								Groundwater infilling from bedrock interface.
389.0								Refusal due to bedrock at 1.5 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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FIGURE A2.65

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-03

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 22 Feb 13

Location: Mine Rock Area

Total Depth: 4.10 m

Date Completed: 22 Feb 13

Coordinates: 5,264,268 N, 430,008 E

Elevation: 392.20 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
392.0		GB	BU-1			ORGANICS (0 to 0.2) PEAT; with root inclusions.		
						SAND/SILT (0.2 to 0.6) Silty; SAND, fine; trace clay; trace boulders; trace cobbles; well graded, brown, loose, stratified, moist.		
1.0						SAND/SILT (0.6 to 4.1) Silty; SAND, fine to coarse; some gravel, fine to coarse; some cobbles; trace boulders; well graded, grey/brown, compact, stratified, moist.		
391.0		GB	BU-2					
2.0								
390.0								
3.0								
389.0								
4.0								
388.0						End of Test Pit: 4.1 m		

Pit walls unstable below 2.0 m.
Groundwater encountered at 3.6 m.
End of test pit due to too much water and wall collapse at 4.1 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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FIGURE A2.66

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-04

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 27 Feb 13

Location: Mine Rock Area

Total Depth: 1.20 m

Date Completed: 27 Feb 13

Coordinates: 5,267,933 N, 432,265 E

Elevation: 388.40 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	388.0	GB	BU-1			ORGANICS (0 to 0.1) PEAT; dark brown/black, spongy, amorphous.		
	1.0	GB	BU-2			SAND (0.1 to 1.2) SAND, fine to medium; some silt; trace clay; trace gravel, fine to coarse; some cobbles, angular to subangular; some boulders, angular to subangular; poorly graded, light brown, loose, stratified, dry.		
	387.0					End of Test Pit: 1.2 m		
	386.0							
	385.0							
	384.0							

Test pit located in slight depression at top of hill in forest.

No groundwater encountered.

Refusal due to bedrock at 1.2 m depth.

Bedrock dipping at moderate angle to the West.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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FIGURE A2.67

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-05

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 26 Feb 13

Location: Mine Rock Area

Total Depth: 1.50 m

Date Completed: 26 Feb 13

Coordinates: 5,268,747 N, 431,694 E

Elevation: 395.10 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	395.0	GB	BU-1			ORGANICS (0 to 0.1) PEAT; blac/reddish brown, spongy, fibrous.		
						SILT (0.1 to 0.6) SILT; some sand, fine to coarse; trace clay; trace cobbles, angular to subangular; trace boulders, angular to subangular; well graded, low plasticity, light brown, firm, massive, moist.		
		GB	BU-2			SILT/SAND (0.6 to 1.5) SILT; AND SAND, fine to coarse; some gravel, fine, subangular to rounded; trace clay; trace cobbles, subangular to rounded; well graded, brown, compact, massive, moist.		
	394.0					End of Test Pit: 1.5 m		
	393.0							
	392.0							
	391.0							

Test pit located in small depression in forest on elevated area.

No groundwater encountered.

Refusal due to bedrock from 0.15 to 1.5 m depth.

SAMPLING SYMBOLS:

 GRAB
  BLOCK

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FIGURE A2.68

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-06

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 26 Feb 13

Location: Mine Rock Area

Total Depth: 1.60 m

Date Completed: 26 Feb 13

Coordinates: 5,269,167 N, 432,187 E

Elevation: 410.90 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
		GB	BU-1			ORGANICS (0 to 0.2) PEAT; black/brown, spongy, fibrous.		
						SILT (0.2 to 0.5) SILT; trace clay; trace cobbles, subangular to rounded; non-plastic, light brown, soft, massive, dry.		
	410.0	GB	BU-2			SAND/SILT (0.5 to 1.6) Silty; SAND, fine to medium; trace gravel, fine to coarse, angular; trace cobbles, subangular to rounded; trace boulders, subangular to rounded; well graded, brown/grey, loose, stratified, dry		
						End of Test Pit: 1.6 m		
	409.0							
	408.0							
	407.0							
	406.0							

Test pit located in flat area in forest on top of rise.

No groundwater encountered.

Refusal due to bedrock at 1.6 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

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FIGURE A2.69

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-07

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 27 Feb 13

Location: Mine Rock Area

Total Depth: 2.20 m

Date Completed: 27 Feb 13

Coordinates: 5,269,158 N, 432,689 E

Elevation: 398.00 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; balc, spongy, fibrous.		
		GB	BU-1			SAND/SILT (0.2 to 2.2) SAND, fine to coarse; AND SILT; trace clay; some cobbles, subangular to rounded; some boulders, subangular to rounded; well graded, non-plastic, light brown, loose, massive, moist to saturated.		
1.0	397.0							
		GB	BU-2					
2.0	396.0							
					▼	End of Test Pit: 2.2 m		
3.0	395.0							
4.0	394.0							Test pit located at toe of slope in lowlying area at edge of swamp. Groundwater entering pit at 2.1 m. Refusal due to bedrock at 2.2 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

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FIGURE A2.70

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-08

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 28 Feb 13

Location: Mine Rock Area

Total Depth: 3.30 m

Date Completed: 28 Feb 13

Coordinates: 5,269,099 N, 433,328 E

Elevation: 377.50 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.4) PEAT; trace boulders, subangular; black, spongy, amorphous.		
	377.0	GB	BU-1			SILT (0.4 to 1.3) SILT; trace clay; medium plasticity, black to dark brown, firm, stratified, dry.		
1.0								
	376.0	GB	BU-2			SAND/SILT (1.3 to 3.3) Silty; SAND, fine to medium; poorly graded, grey, dense, stratified, moist.		
2.0								
	375.0							
3.0								
	374.0					End of Test Pit: 3.3 m		Test pit located in a local topographic low at bottom of large ridge. Pit walls collapsing at 2.4 m. Groundwater entering at 0.4 m. End of test pit due to wall collapse at 3.3 m depth.
4.0								
	373.0							

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.71

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-09

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 1 Mar 13

Location: Mine Rock Area

Total Depth: 2.40 m

Date Completed: 1 Mar 13

Coordinates: 5,268,746 N, 433,699 E

Elevation: 387.40 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
	387.0	GB	BU-1			ORGANICS (0 to 0.2) PEAT; black, spongy, fibrous.		
	386.0	GB	BU-2			SAND (0.2 to 0.8) SAND, fine to medium; some silt; trace clay; well graded, light brown, loose, massive, dry.		
	385.0					SILT (0.8 to 2.4) SILT; some sand, fine to medium; trace clay; well graded, low plasticity, grey, firm, massive, wet.		
	384.0					End of Test Pit: 2.4 m		Test pit located in low spot between two small hills in forest. Pit walls sloughing at 1.0 m. Groundwater entering from 0.8 m. Refusal due to bedrock at 2.4 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.72

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
 I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-10

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 28 Feb 13

Location: Mine Rock Area

Total Depth: 2.20 m

Date Completed: 28 Feb 13

Coordinates: 5,268,005 N, 432,925 E

Elevation: 388.50 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.3) PEAT; many boulders, subangular to rounded; some cobbles, subangular to rounded; black/brown, spongy, fibrous.		
	388.0	GB	BU-1			SILT (0.3 to 1) SILT; trace clay; trace cobbles, subangular to rounded; trace boulders, subangular to rounded; low plasticity, brown, stiff, massive, moist.		
1.0						SAND/SILT (1 to 2.2) Silty; SAND, fine to coarse; trace gravel, fine to coarse, rounded; trace cobbles, rounded; well graded, brown, loose, massive, moist.		
	387.0	GB	BU-2					
2.0						End of Test Pit: 2.2 m		
	386.0							
3.0								
	385.0							Test pit located in local depression.
4.0								Lower pit walls sloughing.
	384.0							Groundwater infilling from 2.1 m.
								Refusal due to bedrock at 2.2 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.73

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-11

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 28 Feb 13

Location: Mine Rock Area

Total Depth: 2.60 m

Date Completed: 28 Feb 13

Coordinates: 5,268,346 N, 432,606 E

Elevation: 395.70 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; black, spongy, fibrous.		
	395.0	GB	BU-1			SILT (0.2 to 0.8) SILT; some sand, fine to medium; trace clay; trace gravel, fine to coarse, subangular to rounded; trace cobbles, subangular to rounded; well graded, non-plastic, dark brown/grey, firm, laminated, wet.		
1.0						SAND (0.8 to 2.6) SAND, fine to coarse; some silt; trace clay; trace gravel, fine to coarse, subangular to rounded; trace cobbles, subangular to rounded; trace boulders, rounded; well graded, grey/brown, loose, massive, wet to saturated.		
	394.0	GB	BU-2					
	393.0					End of Test Pit: 2.6 m		
	392.0							Test pit located beside slightly swampy area with rise to the North. Pit walls starting to slough at 1.5 m. Groundwater infilling form 0.3 m. Refusal due to bedrock at 2.6 m depth.
	391.0							

SAMPLING SYMBOLS:

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.74

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-12

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 350

Date Started: 4 Mar 13

Location: Mine Rock Area

Total Depth: 2.70 m

Date Completed: 4 Mar 13

Coordinates: 5,265,255 N, 432,426 E

Elevation: 388.00 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.2) PEAT; some boulders, angular; some cobbles, angular; dark brown, spongy, fibrous, wet with root inclusions and moss on surface.		
		GB	BU-1			SILT (0.2 to 0.5) SILT; some sand, fine; some clay; low plasticity, dark grey/light grey, firm, stratified, wet.		
1.0	387.0					SILT/SAND (0.5 to 1.2) Sandy, fine; SILT; trace clay; low plasticity, light brown/mottled orangeish brown, firm, stratified, wet.		
						SILT (1.2 to 2.5) SILT; some sand, fine; trace clay; low plasticity, grey, stiff, stratified, wet.		
2.0	386.0	GB	BU-2					
						TILL (2.5 to 2.7) Sandy, fine to coarse; gravelly, fine to coarse, angular; SILT; trace cobbles, subrounded; well graded, grey, dense, massive. End of Test Pit: 2.7 m		
3.0	385.0							
4.0	384.0							

Test pit located in area with alders and pine plantation.

Pit walls stable.

Groundwater inflowing from 0.5 m and quickly from 1.2 m.

Refusal due to bedrock at 2.7 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.75

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-13

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 350

Date Started: 4 Mar 13

Location: Mine Rock Area

Total Depth: 1.70 m

Date Completed: 4 Mar 13

Coordinates: 5,265,737 N, 432,562 E

Elevation: 390.70 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						<p>BOULDERS (0 to 0.3) BOULDERS, angular to subrounded; MUCH cobbles, angular to subrounded; some peat; loose, brown, massive, moist.</p> <p>BOULDERS (0.3 to 0.8) BOULDERS, angular to subrounded; MUCH cobbles, angular to subrounded; some sand, fine to coarse; some silt; trace gravel, coarse, angular to subangular; brown, loose, wet.</p> <p>SAND/SILT (0.8 to 1.7) Silty; SAND, fine to coarse; some gravel, fine to coarse, subangular to subrounded; trace cobbles, subangular to subrounded; well graded, brown/orangeish brown/light brown, massive, dense, wet to saturated.</p>		
	390.0							
1.0		GB	BU-1					
	389.0					End of Test Pit: 1.7 m		
2.0								
	388.0							
3.0								
	387.0							Test pit located in small valley feature. Area has alders / cedar / spruce and white birch trees.
4.0								Pit walls stable.
	386.0							Groundwater pooling on bedrock surface.
								Refusal due to bedrock at 1.7 m depth.

SAMPLING SYMBOLS:

GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.76

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-14

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 350

Date Started: 4 Mar 13

Location: Mine Rock Area

Total Depth: 3.00 m


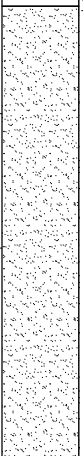
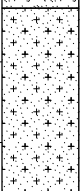
Date Completed: 4 Mar 13

Coordinates: 5,265,856 N, 433,745 E

Elevation: 391.00 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.6) PEAT; many boulders, angular to subrounded; some cobbles, angular to subrounded; dark brown, spongy, fibrous, saturated.		
1.0	390.0	GB	BU-1			SAND (0.6 to 2.3) SAND, fine to medium; some silt; trace clay; poorly graded, light brown, loose to compact, stratified, saturated.		
2.0	389.0							
		GB	BU-2			SAND/SILT (2.3 to 3) Silty; SAND, fine to coarse; some cobbles, subangular to subrounded; some boulders, subangular to subrounded; trace gravel, angular to subrounded; well graded, brown, very dense, massive, saturated.		
3.0	388.0					End of Test Pit: 3 m		
4.0	387.0							Test pit located in small valley with balsam / white birch and cedar trees. Pit walls unstable at 2.0 m. Groundwater infilling from peat layer. End of test pit due to water and suspected boulders at 3.0 m depth.

SAMPLING SYMBOLS:

GB GRAB  BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.77

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-15

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 350

Date Started: 4 Mar 13

Location: Mine Rock Area

Total Depth: 3.00 m

Date Completed: 4 Mar 13

Coordinates: 5,265,587 N, 434,429 E

Elevation: 413.30 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
413.0		GB	BU-1			<p>ORGANICS (0 to 0.3) PEAT; many cobbles, subrounded to rounded; some boulders, subrounded to rounded.</p> <p>SAND/SILT (0.3 to 1) Silty; SAND, fine to coarse; some cobbles, subround to rounded; poorly graded, brown, compact, massive, wet.</p>		
412.0						<p>SAND (1 to 3) SAND, fine to coarse; MANY COBBLES, subrounded to rounded; some gravel, fine to coarse, subrounded to rounded; some silt; trace boulders, subrounded to rounded; well graded, brown, compact to very dense, massive, saturated.</p>		
411.0		GB	BU-2					
3.0						End of Test Pit: 3 m		
410.0								Test pit located in area of mature growth trees.
4.0								Pit walls become unstable below 2.0 m.
409.0								Refusal due to slough and water at 3.0 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.78

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-16

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 350

Date Started: 28 Mar 13

Location: Mine Rock Area

Total Depth: 7.00 m

Date Completed: 28 Mar 13

Coordinates: 5,265,147 N , 434,629 E

Elevation: 410.30 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
410.0		GB	BU-1			ORGANICS (0 to 0.2) PEAT; dark brown, spongy, fibrous. SAND (0.2 to 3.4) SAND, fine; some gravel, fine, subrounded; trace boulders, rounded; trace cobbles, rounded; poorly graded, light brown to light grey, compact, stratified, dry. Layered by colour.		
409.0								
408.0								
407.0		GB	BU-2			TILL (3.4 to 7) SAND, fine to coarse; AND GRAVEL, fine to coarse, subrounded; some silt; some cobbles, subrounded; some boulders, subrounded; well graded, grey, compact, massive, moist.		
406.0								
405.0								
404.0								Test pit located in flat forested area. Pit walls become unstable above bedrock. Refusal due to bedrock at 7.0 m depth.
403.0						End of Test Pit: 7 m		

SAMPLING SYMBOLS:

GB GRAB BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.79

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-17

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 350

Date Started: 28 Mar 13

Location: Mine Rock Area

Total Depth: 4.30 m

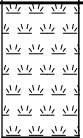
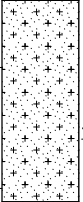
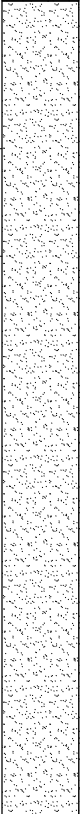
Date Completed: 28 Mar 13

Coordinates: 5,264,771 N, 434,317 E

Elevation: 403.80 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.5) PEAT; trace boulders; black, spongy, amorphous.		
1.0	403.0	GB	BU-1			SILT/SAND (0.5 to 1.25) Sandy, fine; SILT; medium plasticity, light brown, firm, stratified, wet.		
2.0	402.0	GB	BU-2			SAND (1.25 to 4.3) SAND, fine to coarse; some gravel, fine to coarse, subrounded; trace cobbles, subrounded; well graded, blueish dark grey to grey, compact, massive, moist to wet.		
4.0	400.0					End of Test Pit: 4.3 m		Test pit located in flat area in forest. Groundwater slowly infilling at 1.0 m. Refusal due to bedrock at 4.3 m depth.
	399.0							

SAMPLING SYMBOLS:

GB GRAB  BLOCK

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.80

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-18

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 350

Date Started: 28 Mar 13

Location: Mine Rock Area

Total Depth: 6.20 m

Date Completed: 28 Mar 13

Coordinates: 5,264,464 N, 433,964 E

Elevation: 403.30 m

Logged by: TAM

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
403.0						ORGANICS (0 to 0.75) PEAT; black, spongy, fibrous, dry; many boulders, rounded; grey/red/white, loose, dry.		
1.0	402.0	GB	BU-1			SAND/SILT (0.75 to 1.6) Silty; SAND, fine to medium; some cobbles, rounded; some gravel, fine to coarse, rounded; well graded, light brown, compact, massive, moist.		
2.0	401.0	GB	BU-2			SAND/GRAVEL (1.6 to 4) SAND, medium to coarse; AND GRAVEL, fine to coarse, rounded; some cobbles, rounded; trace boulders, rounded; well graded, dark brown/black/white, compact, massive, wet.		
4.0	399.0					SAND (4 to 6.2) SAND, fine to coarse; some gravel, rounded; some cobbles, rounded; well graded, grey, loose, massive, saturated.		
5.0	398.0							
6.0	397.0					End of Test Pit: 6.2 m		Test pit located in flat area of forest. Pit walls collapsing. Groundwater infilling from 2.0 m. End of test pit due to slough/water at 6.2 m depth.

SAMPLING SYMBOLS:

GB GRAB BLOCK

IAMGOLD CORPORATION
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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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FIGURE A2.81

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13

Project: CÔTÉ GOLD PROJECT

Test Pit No.: TP13-WD-19

Page: 1 of 1

Contractor: Chenier Drilling

Equipment Used: Link Belt 210

Date Started: 7 Feb 13

Location: Mine Rock Area

Total Depth: 3.20 m

Date Completed: 7 Feb 13

Coordinates: 5,264,043 N, 427,899 E


Elevation: 389.60 m

Logged by: RWT

Reviewed by: RSM

DEPTH - (m)	ELEVATION - (m)	SAMPLES	SAMPLE NO.	GRAPHIC LOG	WATER LEVEL	MATERIAL DESCRIPTION	FROZEN SOIL DESCRIPTION	COMMENTS
						ORGANICS (0 to 0.4) MOSS AND PEAT; green/brown, spongy, fibrous, frozen with root inclusions.		
	389.0					ORGANICS (0.4 to 3.2) PEAT; brown, spongy, fibrous, wet to saturated.		
1.0								
	388.0							
2.0								
	387.0							
3.0								
	386.0					End of Test Pit: 3.2 m		Test pit located in spruce swamp. Groundwater infilling from below frozen layer. End of test pit due to water at 3.2 m depth.
	385.0							

SAMPLING SYMBOLS:

 GRAB
  BLOCK

**IAMGOLD CORPORATION
CÔTÉ GOLD PROJECT**

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Project No. NB101-497/5	Ref. No. 1	Rev. 0
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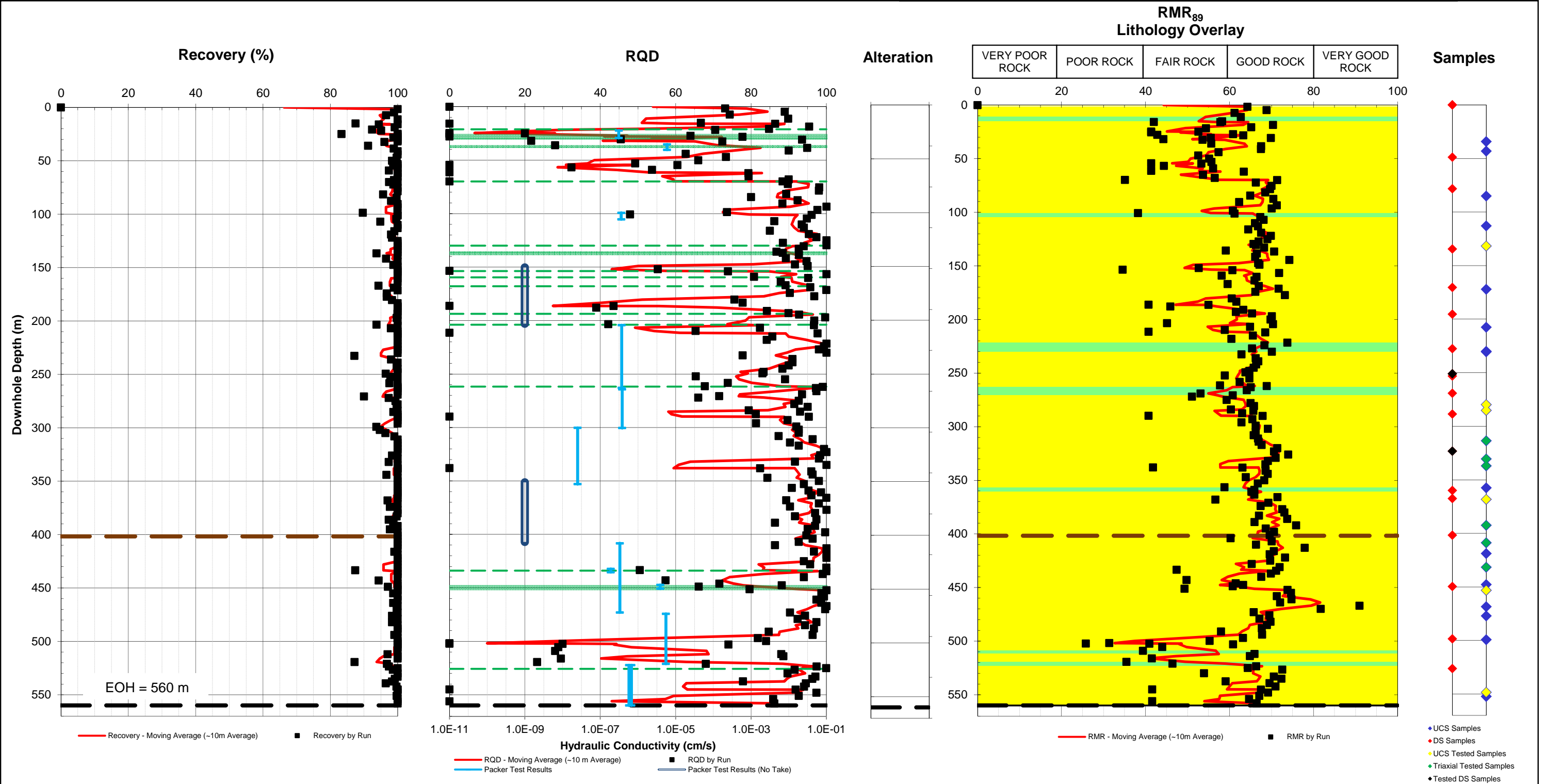
FIGURE A2.82

I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\2013 WINTER SI - TEST PITS 20130712 RDW.GPJ
 I:\110100497\05A\DATA\WORK FILES\WF01 - GINT\KP LIB.GLB, TEST PIT LOG_NO FROZEN SOILS, KP DATA TEMPLATE.GDT, 25-Jul-13



APPENDIX G

Downhole Plots

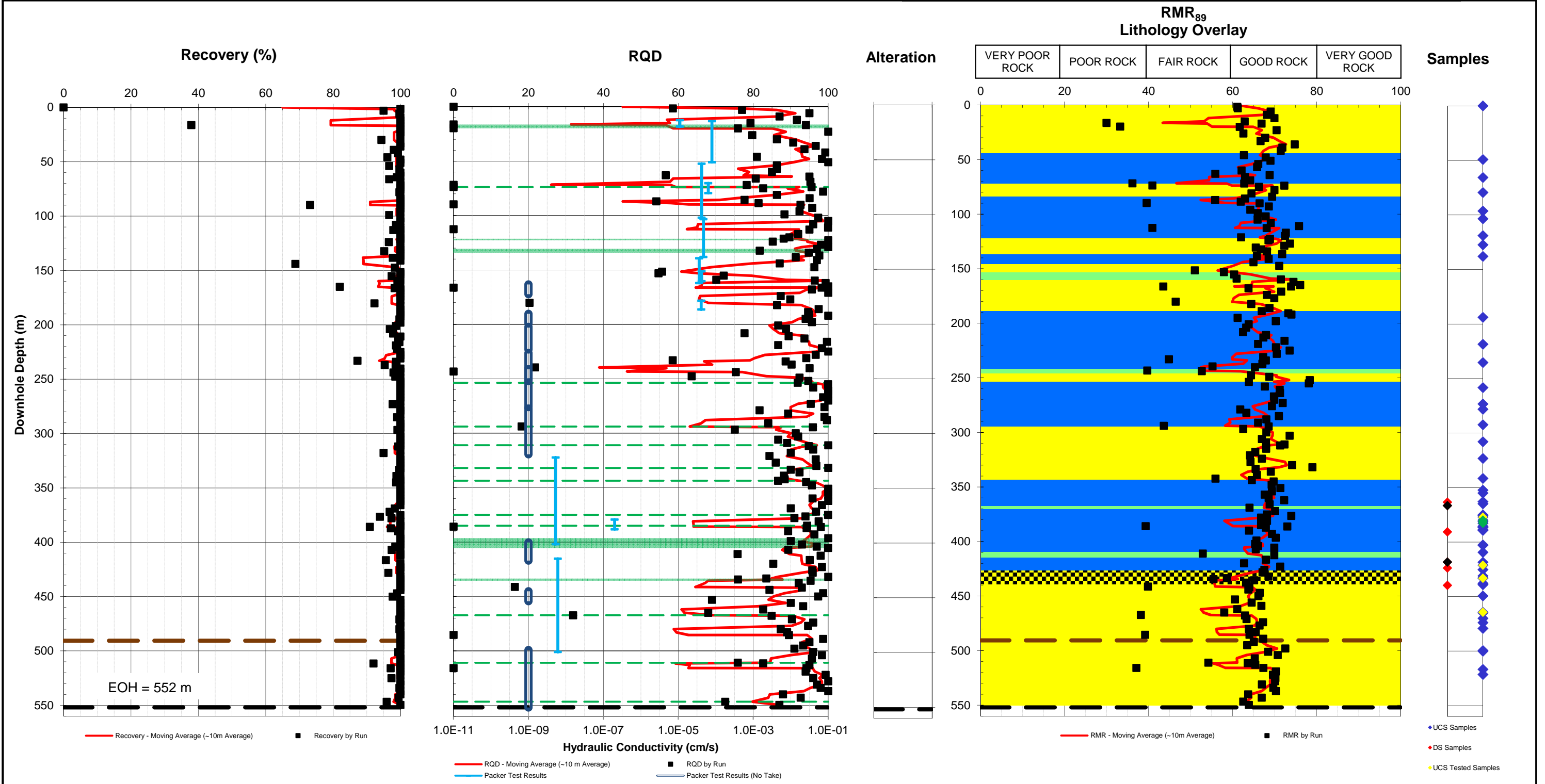


NOTES:
 1. LITHOLOGY IS FROM GEOLOGY LOGS PROVIDED BY IAMGOLD (SEPTEMBER, 2012).
 2. FAULT ZONES BASED ON GEOMECHANICAL LOGGING AND MAY NOT CORRESPOND WITH GEOLOGY LOGS.
 3. WATER LEVEL MEASURED AT AN AVERAGE DOWNHOLE DEPTH OF 5.9 m.

Legend	Alteration	Lithology
Dyke	Hematitic	Tonalite
Dyke Zone	Silicification	Diorite
Fault Zone	Potassic	Dyke
Pit Wall Contact (PWC)	Propylitic	Diabase
End of Hole (EOH)	Sodic	Tonalite Breccia
	Sericitic	Diorite Breccia
		Quartz-carbonate Breccia
		Feldspar Porphyry
		Magmatic Breccia

IAMGOLD CORPORATION		
CÔTÉ GOLD PROJECT		
DOWNHOLE PLOTS FOR DRILLHOLE GT-12-01		
Knight Piésold CONSULTING	P/A NO. NB101-497/2	REF. NO. 1
	FIGURE F1.1	
		REV 0

REV	DATE	DESCRIPTION	PREPD	CHK'D	APP'D
0	18JAN'13	ISSUED WITH REPORT	CAV	BDP	RAM



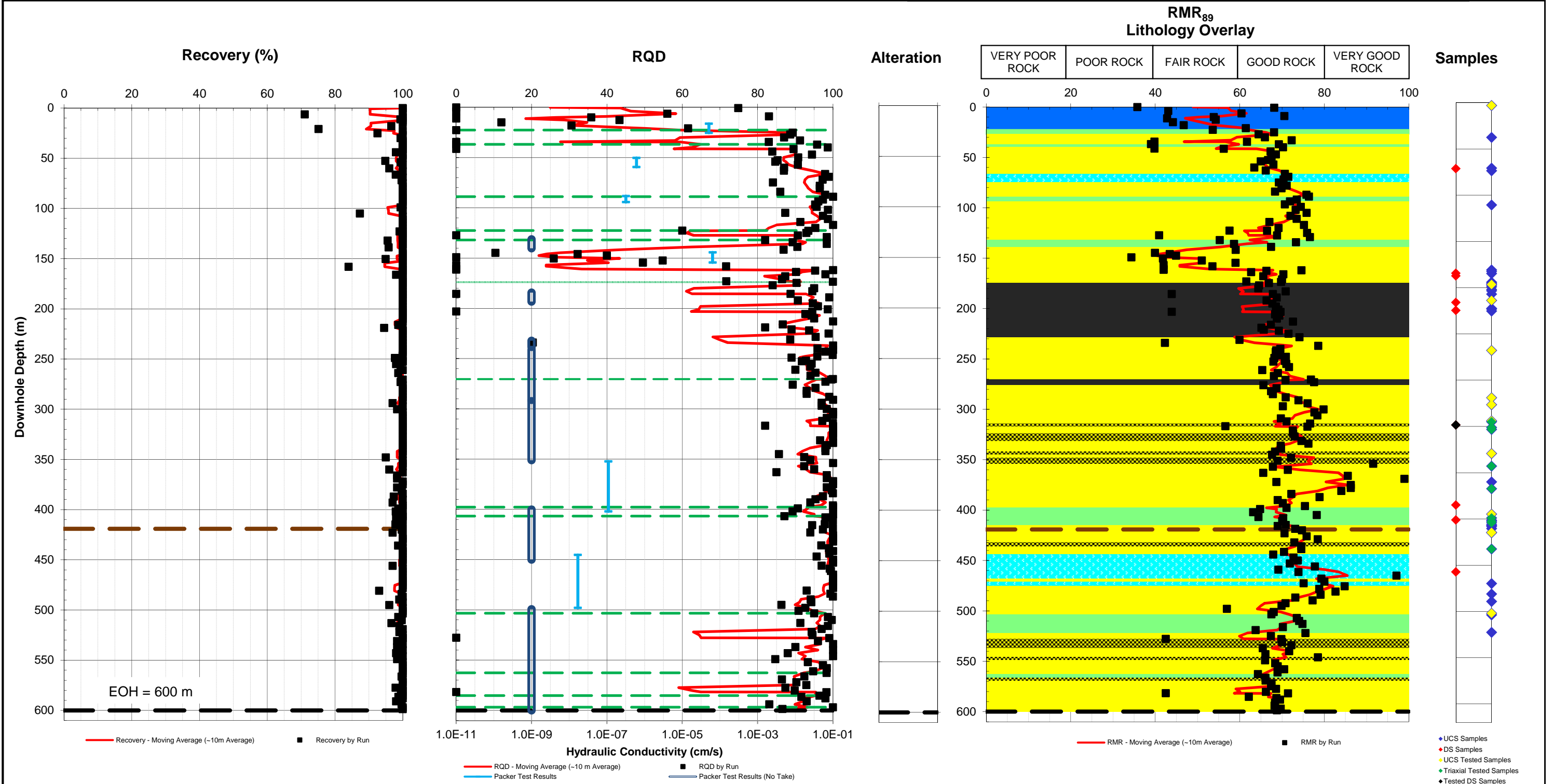
NOTES:

- LITHOLOGY IS FROM GEOLOGY LOGS PROVIDED BY IAMGOLD (SEPTEMBER, 2012).
- FAULT ZONES BASED ON GEOMECHANICAL LOGGING AND MAY NOT CORRESPOND WITH GEOLOGY LOGS.
- WATER LEVEL MEASURED AT AN AVERAGE DOWNHOLE DEPTH OF 5.4 m.

Legend	Alteration	Lithology
--- Dyke	Hematitic	Tonalite
--- Dyke Zone	Silicification	Diorite
--- Fault Zone	Potassic	Dyke
--- Pit Wall Contact (PWC)	Propylitic	Diabase
--- End of Hole (EOH)	Sodic	Tonalite Breccia
	Sericitic	Diorite Breccia
		Quartz-carbonate Breccia
		Feldspar Porphyry
		Magmatic Breccia

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	18JAN'13	ISSUED WITH REPORT	CAV	BDP	RAM

IAMGOLD CORPORATION		
CÔTÉ GOLD PROJECT		
DOWNHOLE PLOTS FOR DRILLHOLE GT-12-02		
	P/A NO. NB101-497/2	REF. NO. 1
	FIGURE F1.2	
		REV 0

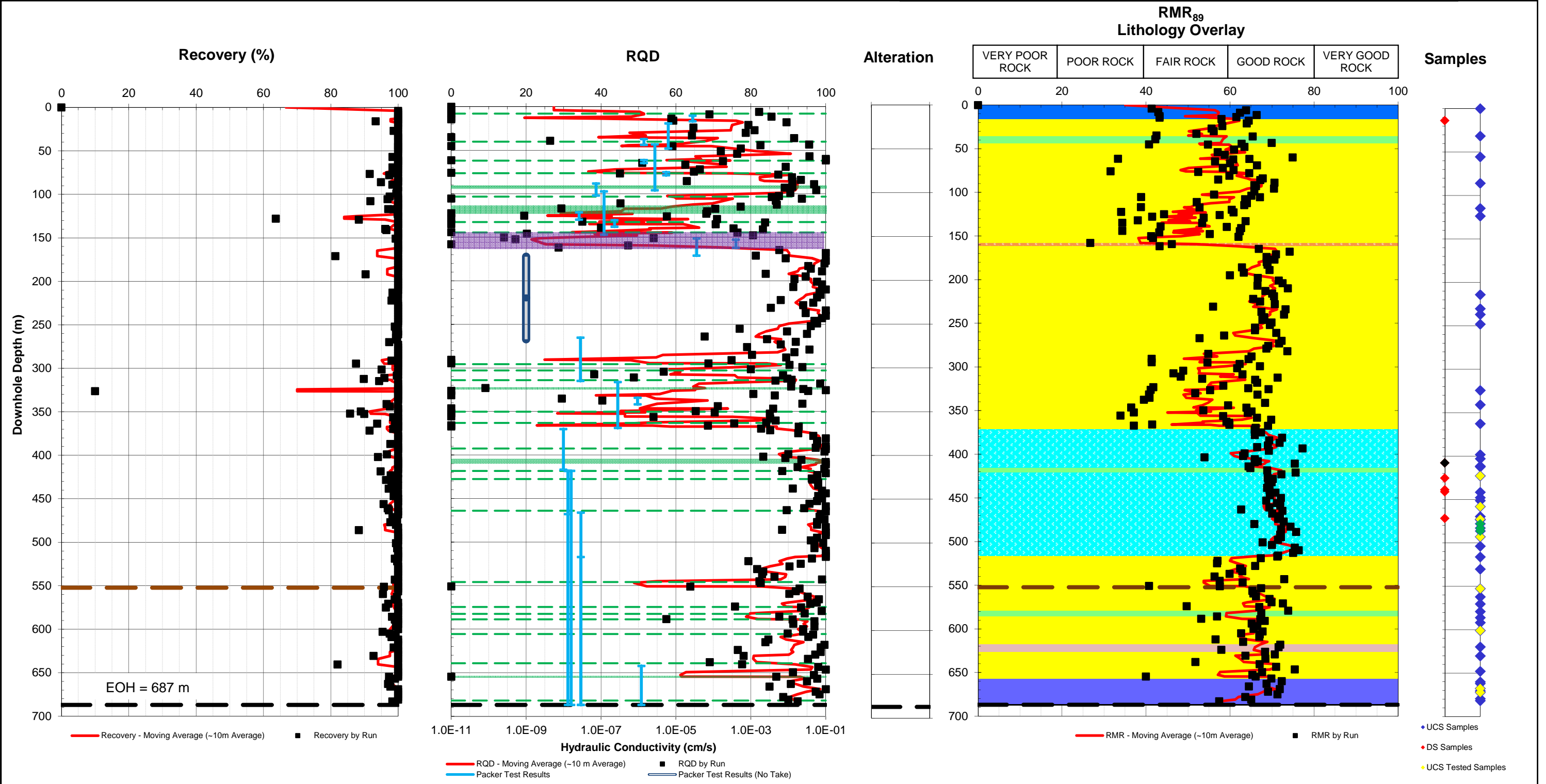


NOTES:
 1. LITHOLOGY IS FROM GEOLOGY LOGS PROVIDED BY IAMGOLD (SEPTEMBER, 2012).
 2. FAULT ZONES BASED ON GEOMECHANICAL LOGGING AND MAY NOT CORRESPOND WITH GEOLOGY LOGS.
 3. WATER LEVEL MEASURED AT AN AVERAGE DOWNHOLE DEPTH OF 2.9 m.

Legend		Alteration		Lithology	
---	Dyke	■	Hematitic	■	Tonalite
■	Dyke Zone	■	Silicification	■	Diorite
■	Fault Zone	■	Potassic	■	Dyke
---	Pit Wall Contact (PWC)	■	Propylitic	■	Diabase
---	End of Hole (EOH)	■	Sodic	■	Tonalite Breccia
		■	Sericitic	■	Diorite Breccia
				■	Quartz-carbonate Breccia
				■	Feldspar Porphyry
				■	Magmatic Breccia

IAMGOLD CORPORATION		
CÔTÉ GOLD PROJECT		
DOWNHOLE PLOTS FOR DRILLHOLE GT-12-03		
	P/A NO. NB101-497/2	REF. NO. 1
	FIGURE F1.3	
		REV 0

0	18JAN'13	ISSUED WITH REPORT	CAV	BDP	RAM
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

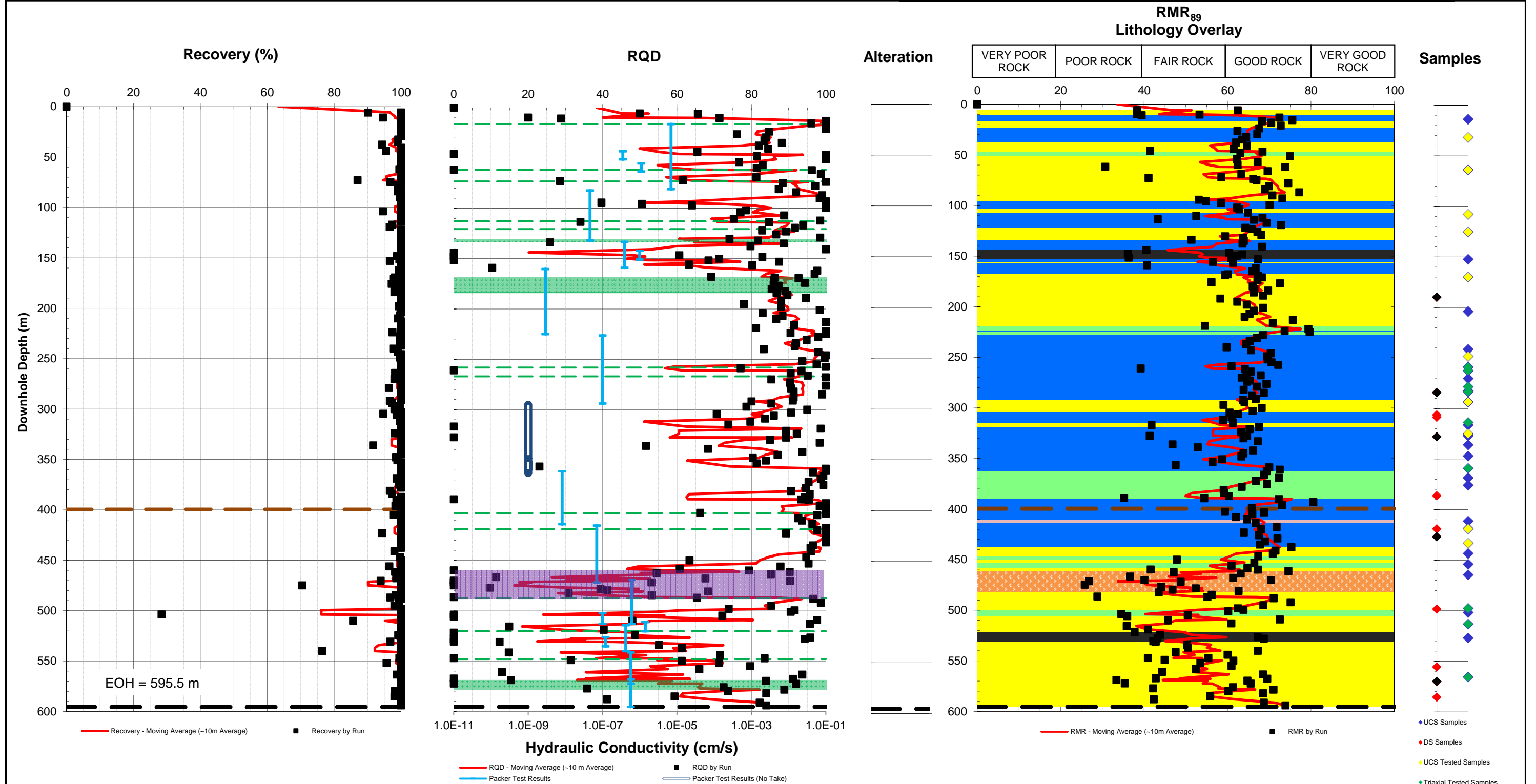


NOTES:
 1. LITHOLOGY IS FROM GEOLOGY LOGS PROVIDED BY IAMGOLD (SEPTEMBER, 2012).
 2. FAULT ZONES BASED ON GEOMECHANICAL LOGGING AND MAY NOT CORRESPOND WITH GEOLOGY LOGS.
 3. WATER LEVEL MEASURED AT AN AVERAGE DOWNHOLE DEPTH OF 3.0 m.

0	18JAN13	ISSUED WITH REPORT	CAV	BDP	RAM
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

Legend	Alteration	Lithology
Dyke	Hematitic	Tonalite
Dyke Zone	Silicification	Diorite
Fault Zone	Potassic	Dyke
Pit Wall Contact (PWC)	Propylitic	Diabase
End of Hole (EOH)	Sodic	Tonalite Breccia
	Sericitic	Diorite Breccia
		Quartz-carbonate Breccia
		Feldspar Porphyry
		Magmatic Breccia

IAMGOLD CORPORATION		
CÔTÉ GOLD PROJECT		
DOWNHOLE PLOTS FOR DRILLHOLE GT-12-04		
Knight Piésold CONSULTING	P/A NO. NB101-497/2	REF. NO. 1
	FIGURE F1.4	
		REV 0

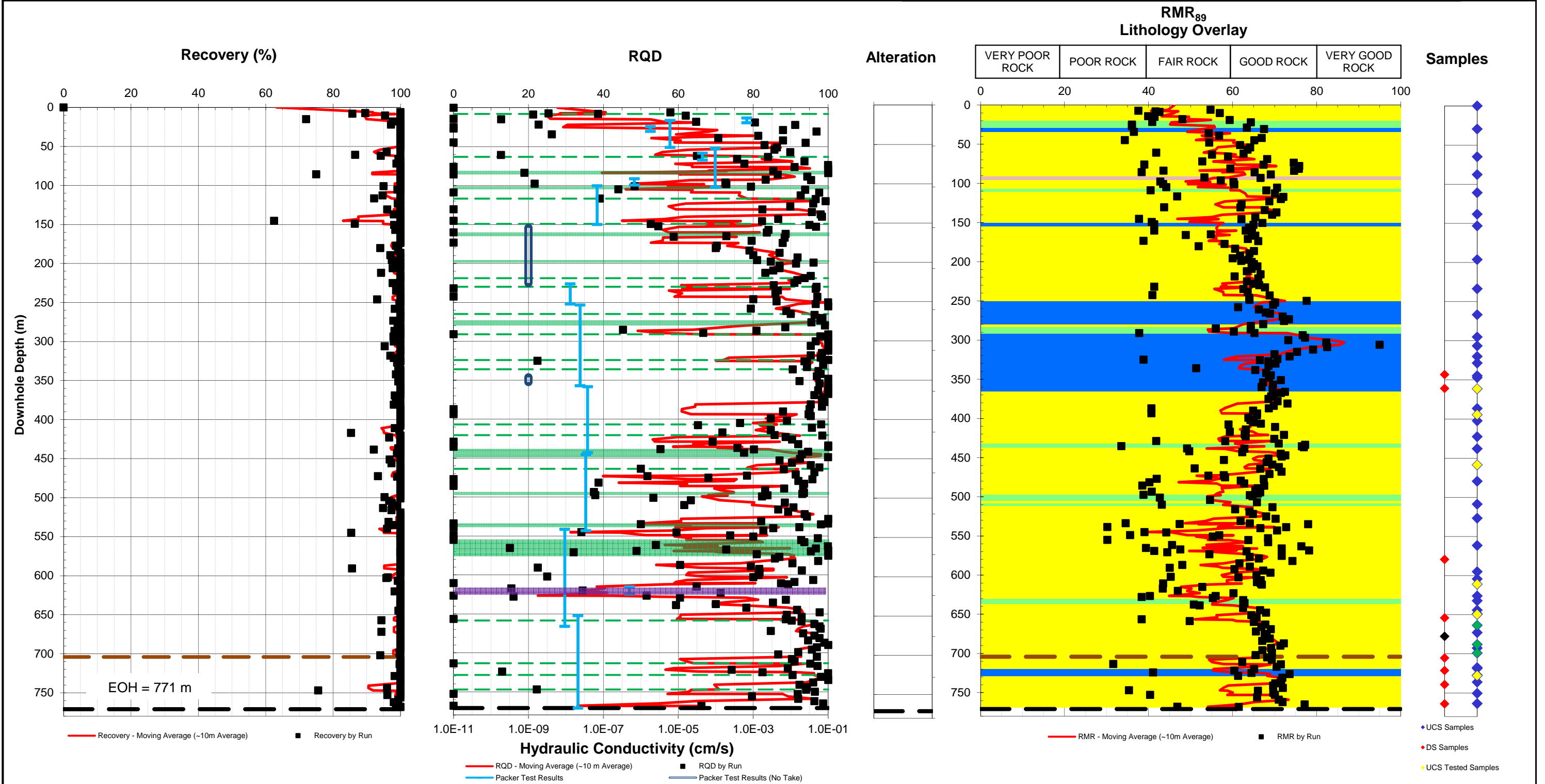


NOTES:
 1. LITHOLOGY IS FROM GEOLOGY LOGS PROVIDED BY IAMGOLD (SEPTEMBER, 2012).
 2. FAULT ZONES BASED ON GEOMECHANICAL LOGGING AND MAY NOT CORRESPOND WITH GEOLOGY LOGS.
 3. WATER LEVEL MEASURED AT AN AVERAGE DOWNHOLE DEPTH OF 4.5 m.

0	18JAN'13	ISSUED WITH REPORT	CAV	BDP	RAM
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

Legend	Alteration	Lithology
Dyke	Hematitic	Tonalite
Dyke Zone	Silicification	Diorite
Fault Zone	Potassic	Dyke
Pit Wall Contact (PWC)	Propylitic	Diabase
End of Hole (EOH)	Sodic	Tonalite Breccia
	Sericitic	Diorite Breccia
		Quartz-carbonate Breccia
		Feldspar Porphyry
		Magmatic Breccia

IAMGOLD CORPORATION		
CÔTÉ GOLD PROJECT		
DOWNHOLE PLOTS FOR DRILLHOLE GT-12-05		
	P/A NO. NB101-497/2	REF. NO. 1
	FIGURE F1.5	
		REV 0



NOTES:
 1. LITHOLOGY IS FROM GEOLOGY LOGS PROVIDED BY IAMGOLD (SEPTEMBER, 2012).
 2. FAULT ZONES BASED ON GEOMECHANICAL LOGGING AND MAY NOT CORRESPOND WITH GEOLOGY LOGS.
 3. WATER LEVEL MEASURED AT AN AVERAGE DOWNHOLE DEPTH OF 2.2 m.

Legend		Alteration		Lithology	
	Dyke		Hematitic		Tonalite
	Dyke Zone		Silicification		Diorite
	Fault Zone		Potassic		Dyke
	Pit Wall Contact (PWC)		Propylitic		Diabase
	End of Hole (EOH)		Sodic		Tonalite Breccia
			Sericitic		Diorite Breccia
					Quartz-carbonate Breccia
					Feldspar Porphyry
					Magmatic Breccia

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	18JAN'13	ISSUED WITH REPORT	CAV	BDP	RAM

IAMGOLD CORPORATION		
CÔTÉ GOLD PROJECT		
DOWNHOLE PLOTS FOR DRILLHOLE GT-12-06		
	P/A NO. NB101-497/2	REF. NO. 1
	FIGURE F1.6	
		REV 0



APPENDIX H

Grain Size Plots and Laboratory Results

SUMMARY OF WATER CONTENT DETERMINATIONS

ASTM D 2216-05

PROJECT NUMBER	12-1192-0010 (8300)(8310)		
PROJECT NAME	IAMGOLD - Côté Lake Project		
DATE	January 11, 2013	LAB#	GA3557

Testpit No.	Sample No.	Type of Sample	Depth (m)	Water Content (%)
TP-2	1	GRAB	2.0	26.1%
TP-2	2	GRAB	4.0	22.2%
TP-4	1	GRAB	2.2-2.5	15.7%
TP-8	1	GRAB	2.0	17.1%
TP-8	2	GRAB	4.0	8.2%
TP-16	1	GRAB	2.0	8.4%
TP-16	2	GRAB	3.5-4.0	10.2%
TP-17	1	GRAB	2.0	11.3%
TP-35	1	GRAB	2.0	13.7%
TP-88	1	GRAB	2.0	19.6%
TP-104	1	GRAB	2.0	17.1%
TP-106	1	GRAB	1.0	13.7%
TP-109	1	GRAB	0.75	15.5%



**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

Project: IAMGOLD - Côté Lake Project

Testpit Number	TP-2
Sample Number	TP-2-1
Sample Depth(m)	2.0 m

Date Received: January 11, 2013

Sampled Date: N/A

Date Tested: January 16, 2013

Golder Lab No.: GA3558

Sieve Size	Percent Passing
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	100.0
13.2 mm	100.0
9.5 mm	100.0
4.75 mm	99.9
2.36 mm	99.8
1.18 mm	99.4
0.600 mm	98.9
0.300 mm	96.7
0.150 mm	76.4
0.075 mm	20.7

Reviewed by: 
Sylvie LaPorte Laboratory Manager

Date: January 24, 2013



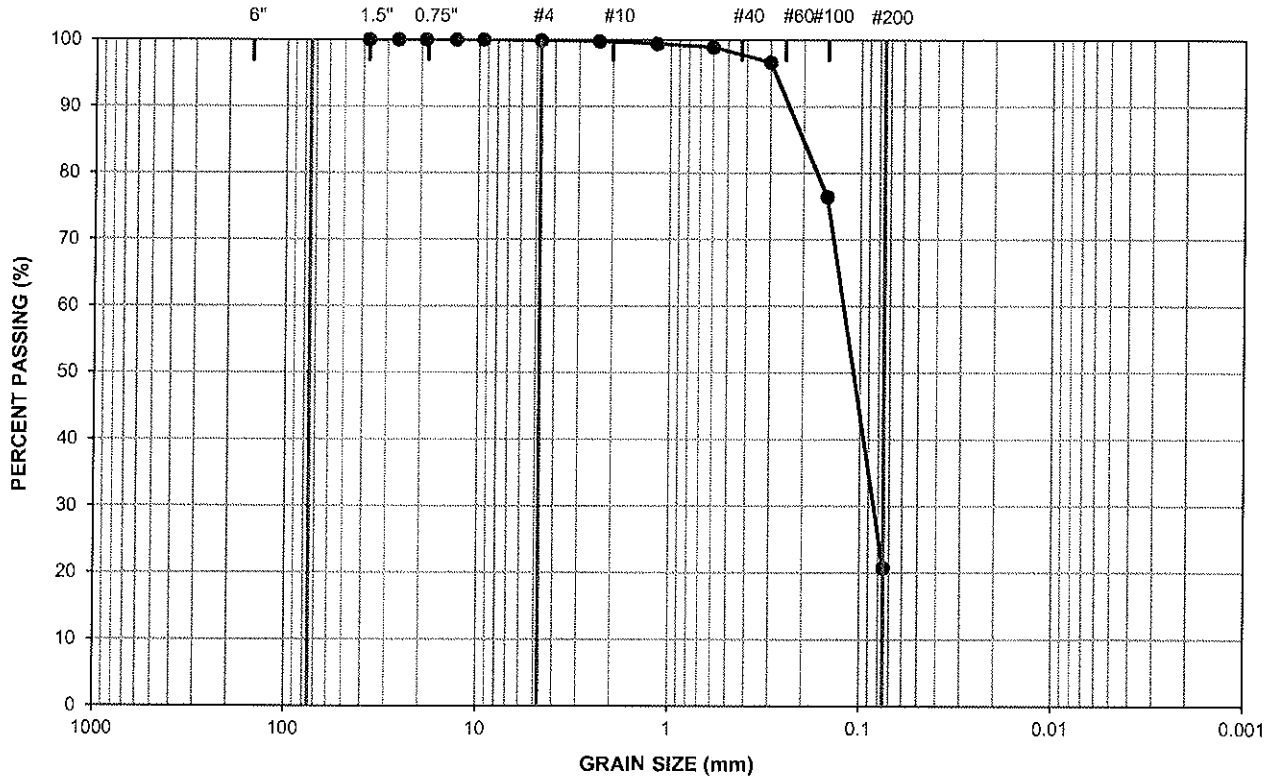
PARTICLE SIZE DISTRIBUTION

IAMGOLD - Côté Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size		Sand Size			

U.S. STANDARD SIEVE SIZE (inch / mesh)



DATE:	January 16, 2013	BOREHOLE:	TP-2
PROJECT#:	12-1192-0010(8300)(8310)	SAMPLE:	TP-2-1
LAB#:	GA3558	DEPTH:	2.0 m

Reviewed:



CERTIFIED CONCRETE TESTING LABORATORY
CSA Standard A283





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

Project: IAMGOLD - Côté Lake Project

Testpit Number	TP-2
Sample Number	TP-2-2
Sample Depth(m)	4.0 m

Date Received: January 11, 2013

Sampled Date: N/A

Date Tested: January 16, 2013

Golder Lab No.: GA3559

Sieve Size	Percent Passing
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	100.0
13.2 mm	100.0
9.5 mm	100.0
4.75 mm	99.7
2.36 mm	99.2
1.18 mm	97.8
0.600 mm	95.2
0.300 mm	84.4
0.150 mm	49.8
0.075 mm	21.7

Reviewed by: 
Sylvie LaPorte Laboratory Manager

Date: January 24, 2013



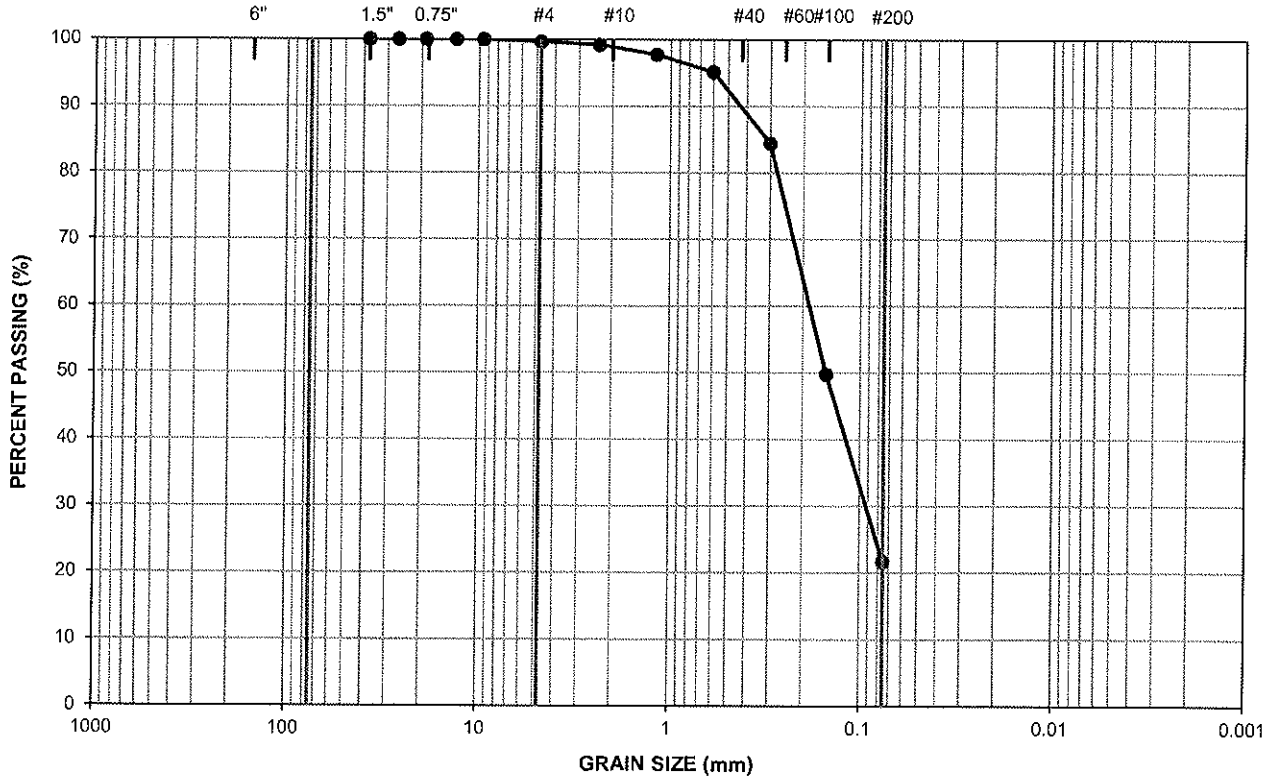
PARTICLE SIZE DISTRIBUTION

IAMGOLD - Côté Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size		Sand Size			

U.S. STANDARD SIEVE SIZE (inch / mesh)



DATE:	January 16, 2013	BOREHOLE:	TP-2
PROJECT#:	12-1192-0010(8300)(8310)	SAMPLE:	TP-2-2
LAB#:	GA3559	DEPTH:	4.0 m

Reviewed: 



CERTIFIED CONCRETE
TESTING LABORATORY
CSA Standard A283





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côté Lake Project

Testpit Number	TP-4
Sample Number	TP-4-1
Sample Depth(m)	2.2-2.5

Date Received: January 11, 2013
Date Tested: January 25, 2013

Sampled Date: N/A
Golder Lab No.: GA3560

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	95.7
13.2 mm	86.8
9.5 mm	82.8
4.75 mm	77.2
2.00 mm	68.6
0.850 mm	59.7
0.425 mm	52.3
0.250 mm	44.8
0.106 mm	33.7
0.075 mm	30.5
0.0501 mm	23.1
0.0360 mm	19.0
0.0231 mm	14.9
0.0136 mm	10.9
0.0097 mm	8.1
0.0069 mm	5.4
0.0034 mm	3.4
0.0025 mm	2.7

Reviewed by:
Sylvie LaPorte, Laboratory Manager

Date: January 28, 2013



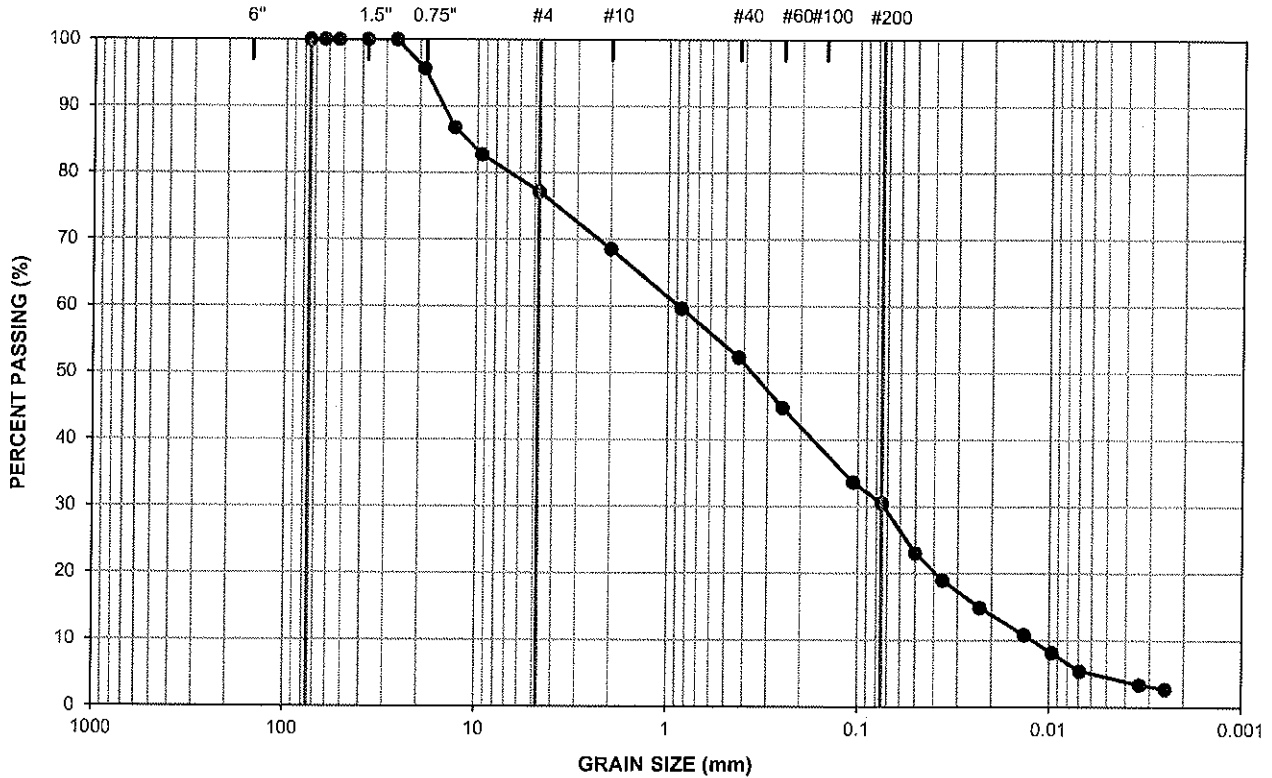
PARTICLE SIZE DISTRIBUTION

IAMGOLD - Côté Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size			Sand Size		

U.S. STANDARD SIEVE SIZE (inch / mesh)



DATE:	January 25, 2013	TESTPIT:	TP-4
PROJECT #:	12-1192-0010(8300)(8310)	SAMPLE:	TP-4-1
LAB #:	GA3560	DEPTH(m):	2.2-2.5

Reviewed:



CERTIFIED CONCRETE TESTING LABORATORY
CSA Standard A283





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côté Lake Project

Testpit Number	TP-8
Sample Number	TP-8-1
Sample Depth(m)	2.0

Date Received: January 11, 2013
Date Tested: January 16, 2013

Sampled Date: N/A
Golder Lab No.: GA3561

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	100.0
13.2 mm	100.0
9.5 mm	100.0
4.75 mm	98.9
2.00 mm	97.0
0.850 mm	95.4
0.425 mm	93.7
0.250 mm	91.9
0.106 mm	88.6
0.075 mm	87.4
0.0456 mm	78.9
0.0333 mm	70.2
0.0218 mm	60.6
0.0134 mm	42.3
0.0098 mm	28.9
0.0064 mm	15.4
0.0034 mm	4.8
0.0015 mm	3.8

Reviewed by:
Sylvie LaPorte, Laboratory Manager

Date: January 24, 2013



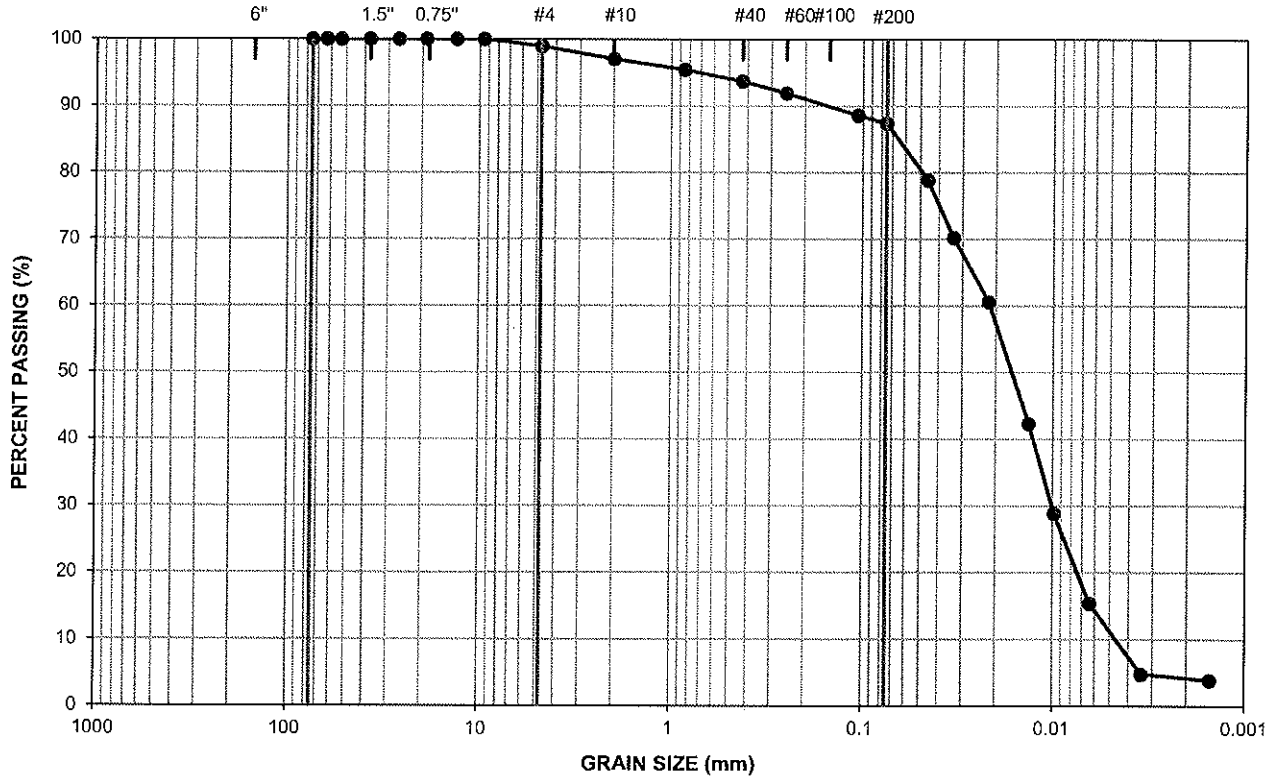
PARTICLE SIZE DISTRIBUTION

IAMGOLD - Côté Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size		Sand Size			

U.S. STANDARD SIEVE SIZE (inch / mesh)



DATE:	January 16, 2013	TESTPIT:	TP-8
PROJECT #:	12-1192-0010(8300)(8310)	SAMPLE:	TP-8-1
LAB #:	GA3561	DEPTH(m):	2.0

Reviewed: 



CERTIFIED CONCRETE
TESTING LABORATORY
CSA Standard A283





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côte Lake Project

Testpit Number	TP-8
Sample Number	TP-8-2
Sample Depth(m)	4.0

Date Received: January 11, 2013
Date Tested: January 16, 2013

Sampled Date: N/A
Golder Lab No.: GA3562

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	100.0
13.2 mm	97.6
9.5 mm	95.6
4.75 mm	88.7
2.00 mm	80.7
0.850 mm	72.6
0.425 mm	64.2
0.250 mm	56.8
0.106 mm	42.2
0.075 mm	35.8
0.0522 mm	28.8
0.0375 mm	24.0
0.0243 mm	16.8
0.0143 mm	11.2
0.0101 mm	8.8
0.0072 mm	5.6
0.0036 mm	3.2
0.0015 mm	2.4

Reviewed by:
Sylvie LaPorte, Laboratory Manager

Date: January 24, 2013



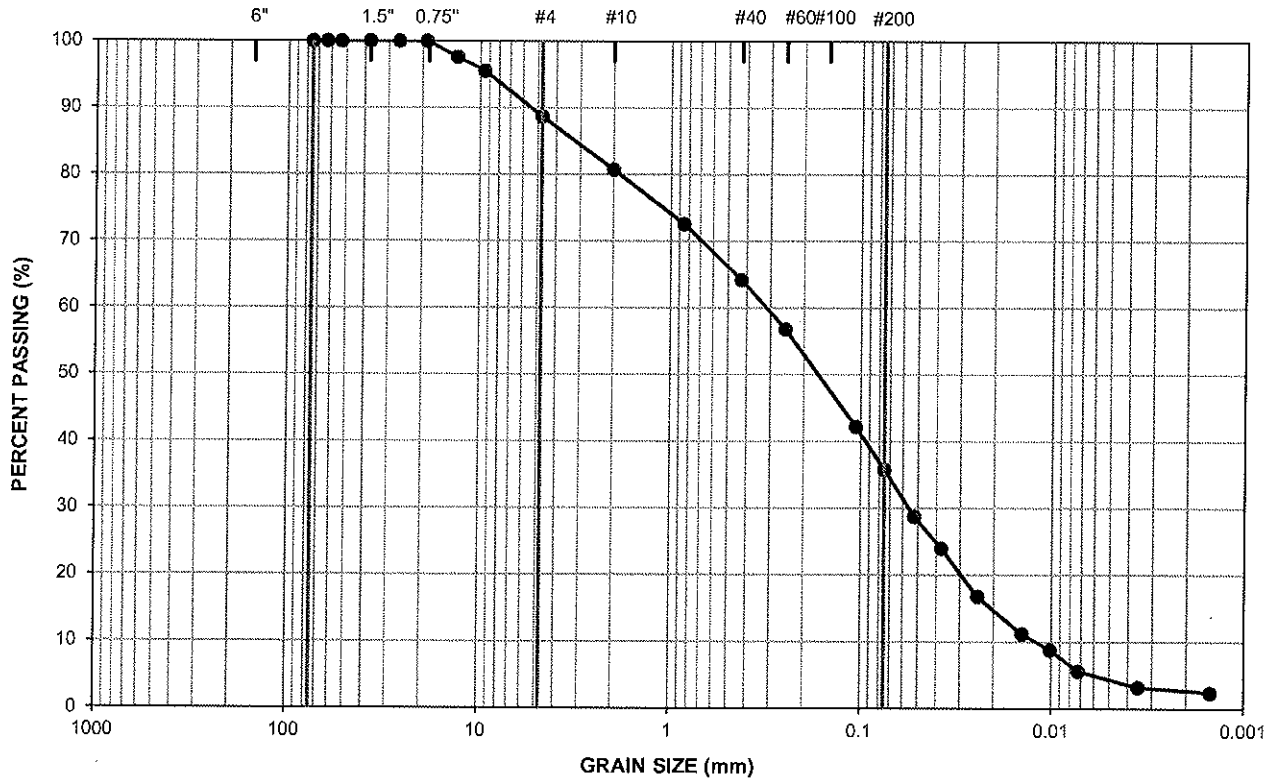
PARTICLE SIZE DISTRIBUTION

IAMGOLD - Côté Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size		Sand Size			

U.S. STANDARD SIEVE SIZE (inch / mesh)



DATE:	January 17, 2013	TESTPIT:	TP-8
PROJECT #:	12-1192-0010(8300)(8310)	SAMPLE:	TP-8-2
LAB #:	GA3562	DEPTH(m):	4.0

Reviewed: 



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TESTING LABORATORY
CSA Standard A283





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côté Lake Project

Testpit Number	TP-16
Sample Number	TP-16-1
Sample Depth(m)	2

Date Received: January 11, 2013
Date Tested: January 25, 2013

Sampled Date: N/A
Golder Lab No.: GA3563

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	96.4
13.2 mm	96.4
9.5 mm	94.5
4.75 mm	91.5
2.00 mm	86.6
0.850 mm	81.1
0.425 mm	75.4
0.250 mm	61.1
0.106 mm	33.8
0.075 mm	26.6
0.0521 mm	16.3
0.0373 mm	12.0
0.0238 mm	8.6
0.0139 mm	5.1
0.0099 mm	3.4
0.0070 mm	1.7
0.0034 mm	1.7
0.0025 mm	1.7

Reviewed by:
Sylvie LaPorte, Laboratory Manager

Date: January 28, 2013

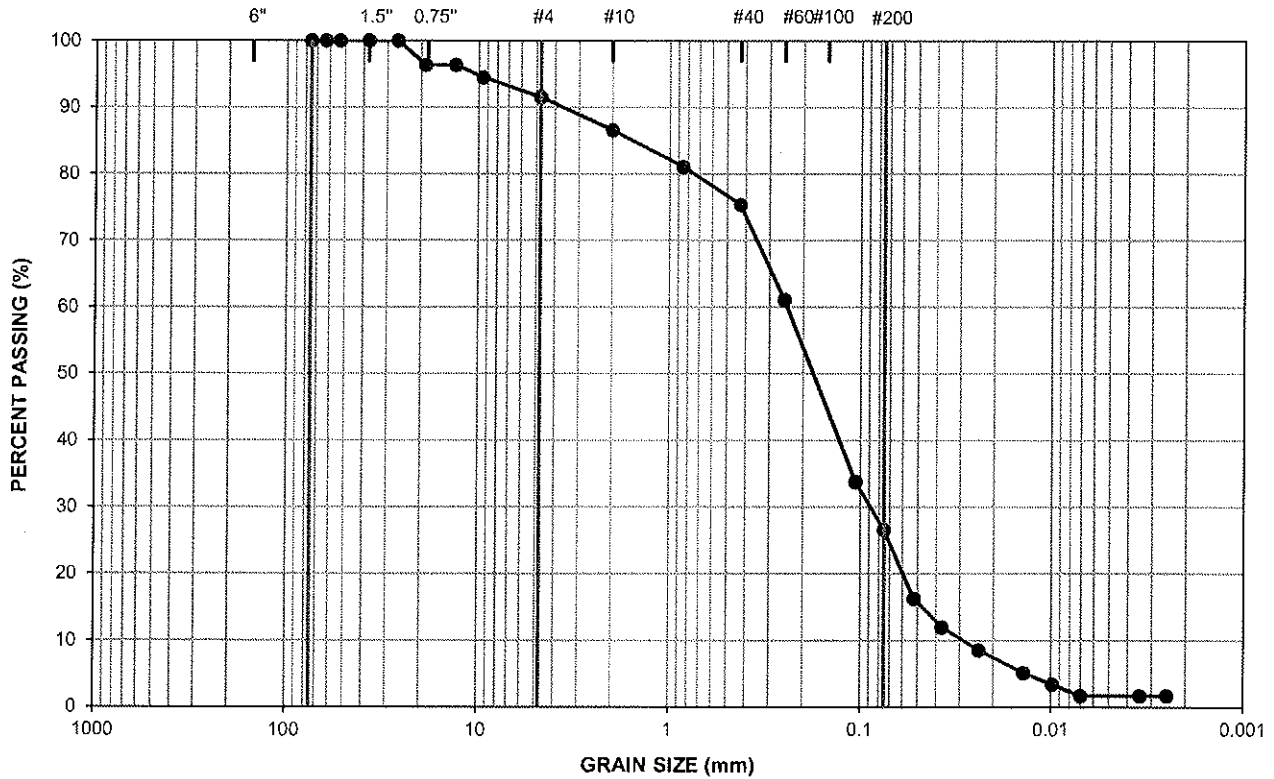


PARTICLE SIZE DISTRIBUTION
IAMGOLD - Côté Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size		Sand Size			

U.S. STANDARD SIEVE SIZE (inch / mesh)



DATE:	January 25, 2013	TESTPIT:	TP-16
PROJECT #:	12-1192-0010(8300)(8310)	SAMPLE:	TP-16-1
LAB #:	GA3563	DEPTH(m):	2

Reviewed:



CERTIFIED CONCRETE TESTING LABORATORY
 CSA Standard A283





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côté Lake Project

Testpit Number	TP-16
Sample Number	TP-16-2
Sample Depth(m)	3.5

Date Received: January 11, 2013
Date Tested: January 25, 2013

Sampled Date: N/A
Golder Lab No.: GA3564

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	98.6
13.2 mm	96.4
9.5 mm	94.3
4.75 mm	89.8
2.00 mm	84.1
0.850 mm	76.6
0.425 mm	67.2
0.250 mm	56.8
0.106 mm	38.1
0.075 mm	31.4
0.0515 mm	20.0
0.0373 mm	11.7
0.0238 mm	8.3
0.0139 mm	5.0
0.0099 mm	3.3
0.0070 mm	1.7
0.0034 mm	0.8
0.0025 mm	0.8

Reviewed by:
Sylvie LaPorte, Laboratory Manager

Date: January 28, 2013





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côté Lake Project

Testpit Number	TP-17
Sample Number	TP-17-1
Sample Depth(m)	2

Date Received: January 11, 2013
Date Tested: January 25, 2013

Sampled Date: N/A
Golder Lab No.: GA3565

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	100.0
13.2 mm	99.0
9.5 mm	97.5
4.75 mm	94.0
2.00 mm	89.6
0.850 mm	85.2
0.425 mm	82.0
0.250 mm	75.8
0.106 mm	49.2
0.075 mm	38.2
0.0515 mm	21.2
0.0370 mm	15.9
0.0237 mm	10.6
0.0138 mm	8.0
0.0098 mm	5.3
0.0070 mm	3.5
0.0034 mm	1.8
0.0025 mm	1.8

Reviewed by: Sylvie LaPorte
Sylvie LaPorte, Laboratory Manager

Date: January 28, 2013



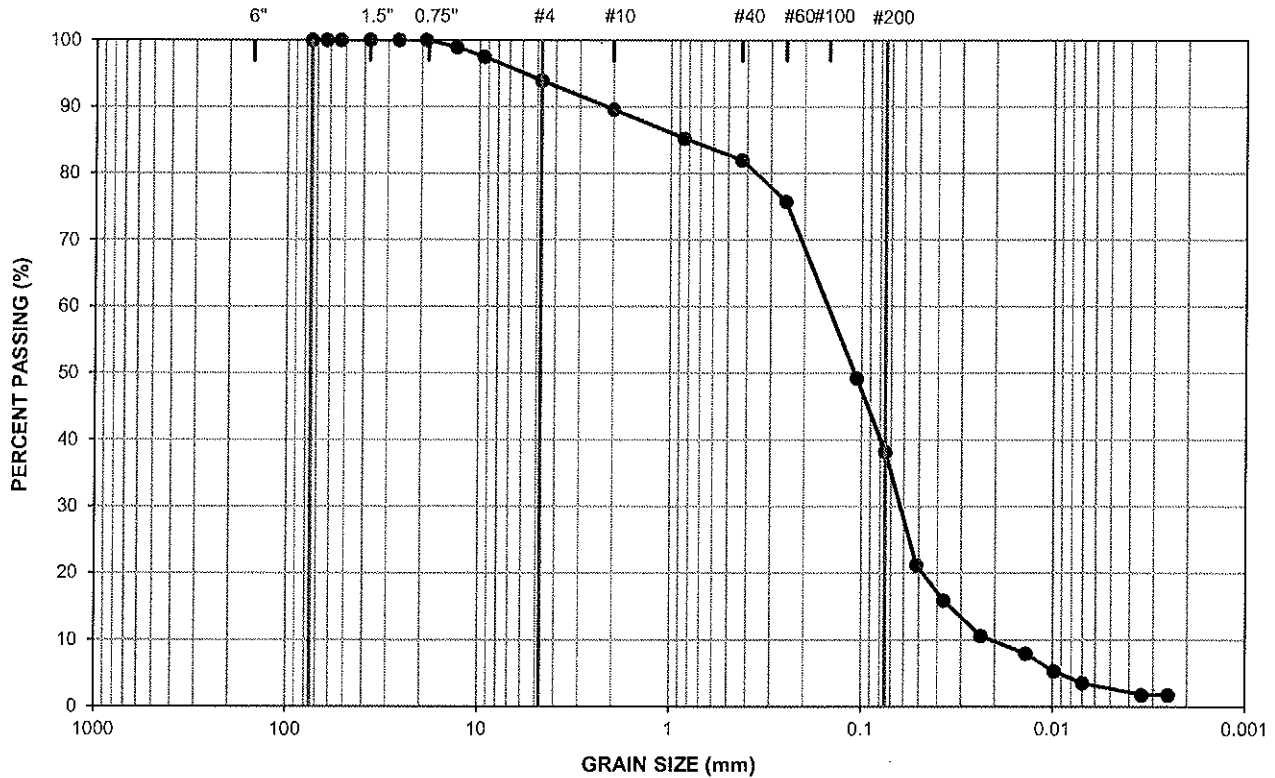
PARTICLE SIZE DISTRIBUTION

IAMGOLD - Côté Lake Project

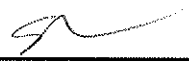
UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size		Sand Size			

U.S. STANDARD SIEVE SIZE (inch / mesh)



DATE:	January 25, 2013	TESTPIT:	TP-17
PROJECT #:	12-1192-0010(8300)(8310)	SAMPLE:	TP-17-1
LAB #:	GA3565	DEPTH(m):	2

Reviewed: 



CERTIFIED CONCRETE
TESTING LABORATORY
CSA Standard A283





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côté Lake Project

Testpit Number	TP-35
Sample Number	TP-35-1
Sample Depth(m)	2.0

Date Received: January 11, 2013
Date Tested: January 16, 2013

Sampled Date: N/A
Golder Lab No.: GA3566

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	100.0
13.2 mm	100.0
9.5 mm	100.0
4.75 mm	97.7
2.00 mm	94.2
0.850 mm	88.9
0.425 mm	81.8
0.250 mm	74.3
0.106 mm	57.8
0.075 mm	50.5
0.0516 mm	37.3
0.0372 mm	30.8
0.0241 mm	23.3
0.0142 mm	14.9
0.0101 mm	11.2
0.0072 mm	9.3
0.0035 mm	4.7
0.0015 mm	2.8

Reviewed by: Sylvie LaPorte
Sylvie LaPorte, Laboratory Manager

Date: January 24, 2013

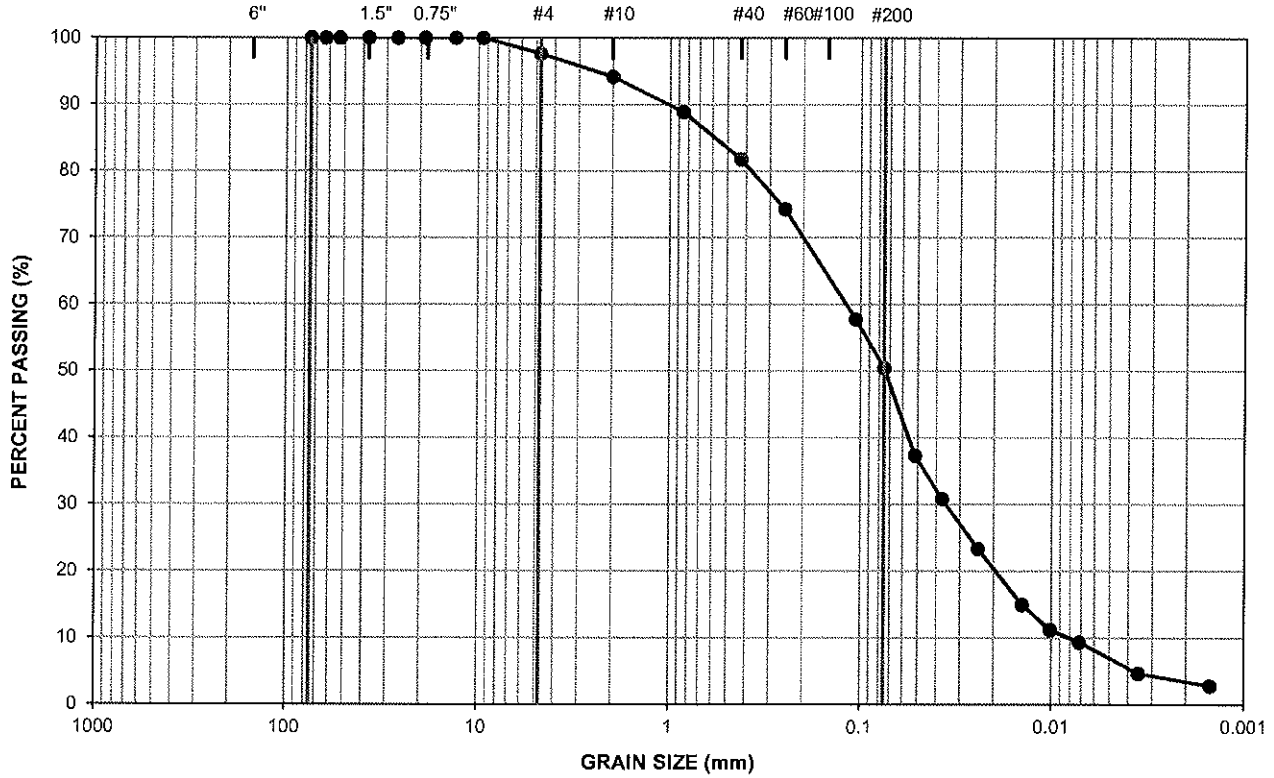


PARTICLE SIZE DISTRIBUTION
IAMGOLD - Côté Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size		Sand Size			

U.S. STANDARD SIEVE SIZE (inch / mesh)



DATE:	January 17, 2013	TESTPIT:	TP-35
PROJECT #:	12-1192-0010(8300)(8310)	SAMPLE:	TP-35-1
LAB #:	GA3566	DEPTH(m):	2.0

Reviewed:



CERTIFIED CONCRETE
 TESTING LABORATORY
 CSA Standard A283





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côté Lake Project

Testpit Number	TP-88
Sample Number	TP-88-1
Sample Depth(m)	2.0

Date Received: January 11, 2013
Date Tested: January 16, 2013

Sampled Date: N/A
Golder Lab No.: GA3567

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	100.0
13.2 mm	100.0
9.5 mm	100.0
4.75 mm	100.0
2.00 mm	100.0
0.850 mm	99.9
0.425 mm	99.6
0.250 mm	97.7
0.106 mm	73.2
0.075 mm	59.3
0.0511 mm	44.6
0.0368 mm	38.6
0.0237 mm	32.7
0.0139 mm	24.8
0.0100 mm	19.8
0.0071 mm	13.9
0.0034 mm	5.9
0.0015 mm	4.0

Reviewed by:
Sylvie LaPorte, Laboratory Manager

Date: January 24, 2013

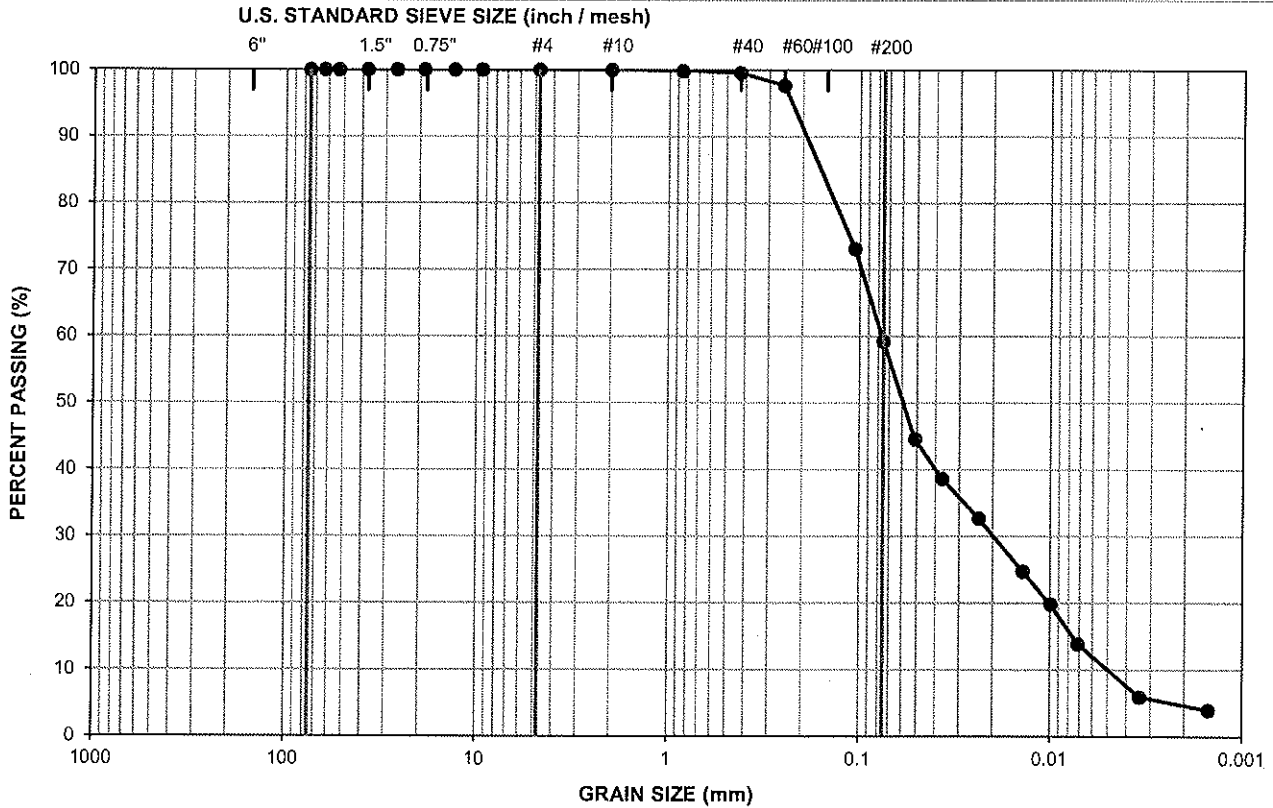


PARTICLE SIZE DISTRIBUTION

IAMGOLD - Côte Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size					



DATE:	January 17, 2013	TESTPIT:	TP-88
PROJECT #:	12-1192-0010(8300)(8310)	SAMPLE:	TP-88-1
LAB #:	GA3567	DEPTH(m):	2.0

Reviewed:



CERTIFIED CONCRETE TESTING LABORATORY
CSA Standard A283





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côté Lake Project

Testpit Number	TP-104
Sample Number	TP-104-1
Sample Depth(m)	2

Date Received: January 11, 2013
Date Tested: January 25, 2013

Sampled Date: N/A
Golder Lab No.: GA3568

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	100.0
13.2 mm	98.5
9.5 mm	96.1
4.75 mm	92.9
2.00 mm	88.0
0.850 mm	81.2
0.425 mm	74.5
0.250 mm	65.3
0.106 mm	41.5
0.075 mm	33.0
0.0510 mm	23.5
0.0367 mm	18.3
0.0235 mm	13.9
0.0138 mm	8.7
0.0098 mm	6.1
0.0070 mm	3.5
0.0034 mm	2.6
0.0025 mm	1.7

Reviewed by:
Sylvie LaPorte, Laboratory Manager

Date: January 28, 2013

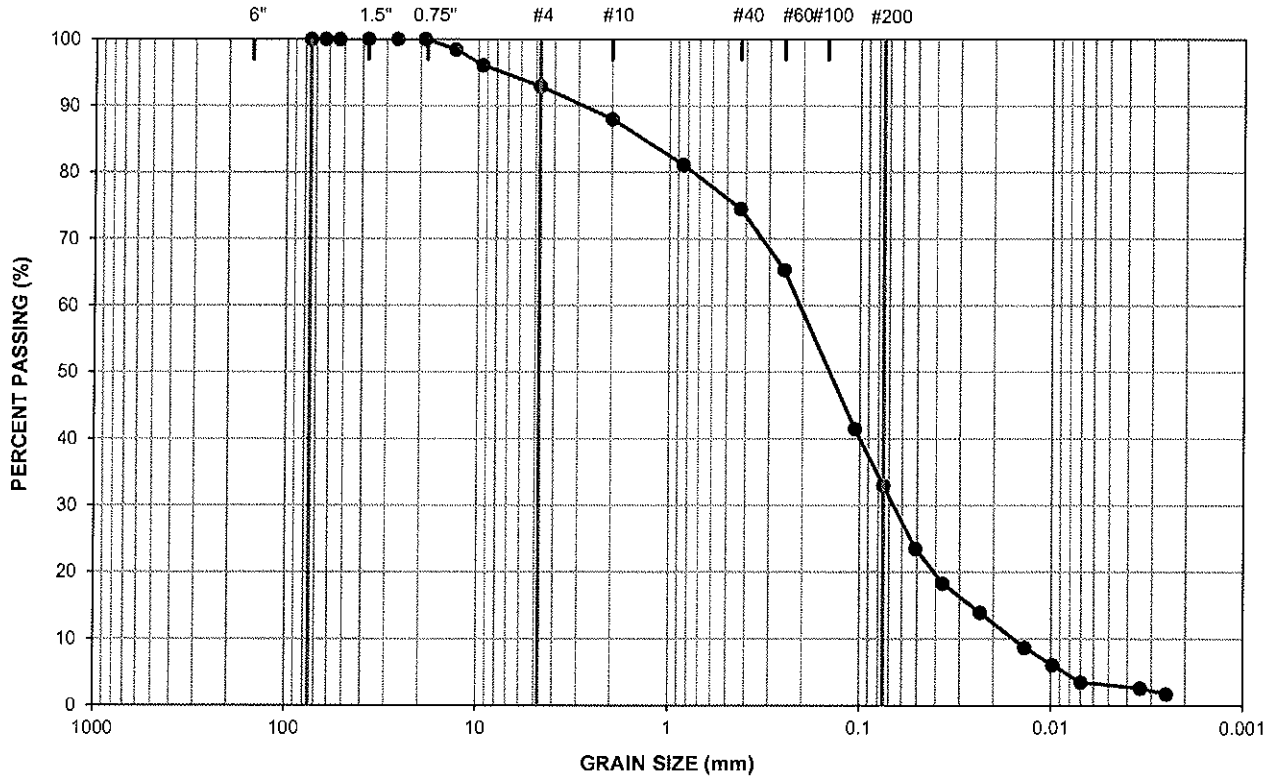


PARTICLE SIZE DISTRIBUTION
IAMGOLD - Côté Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size		Sand Size			

U.S. STANDARD SIEVE SIZE (inch / mesh)



DATE:	January 25, 2013	TESTPIT:	TP-104
PROJECT #:	12-1192-0010(8300)(8310)	SAMPLE:	TP-104-1
LAB #:	GA3568	DEPTH(m):	2

Reviewed:



CERTIFIED CONCRETE TESTING LABORATORY
CSA Standard A283





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côté Lake Project

Testpit Number	TP-106
Sample Number	TP-106-1
Sample Depth(m)	1.0

Date Received: January 11, 2013
Date Tested: January 16, 2013

Sampled Date: N/A
Golder Lab No.: GA3569

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	100.0
13.2 mm	100.0
9.5 mm	96.6
4.75 mm	94.2
2.00 mm	89.4
0.850 mm	83.2
0.425 mm	76.6
0.250 mm	69.4
0.106 mm	53.9
0.075 mm	48.1
0.0516 mm	36.4
0.0376 mm	26.6
0.0244 mm	18.6
0.0144 mm	10.6
0.0102 mm	8.0
0.0073 mm	5.3
0.0034 mm	2.7
0.0015 mm	2.7

Reviewed by:
Sylvie LaPorte, Laboratory Manager

Date: January 24, 2013



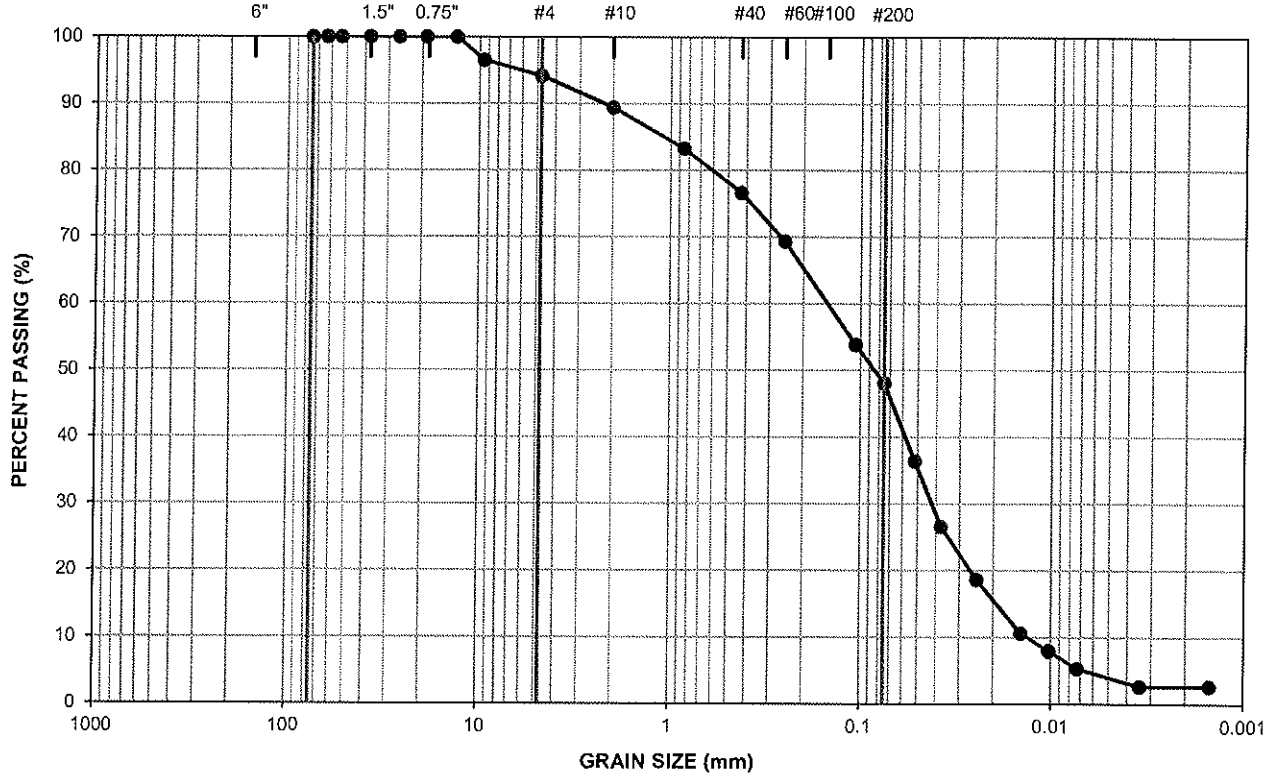
PARTICLE SIZE DISTRIBUTION

IAMGOLD - Côte Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size			Sand Size		

U.S. STANDARD SIEVE SIZE (inch / mesh)





**SIEVE ANALYSIS OF AGGREGATE
(MTO LS-602)**

Project No.: 12-1192-0010(8300)(8310)

PROJECT: IAMGOLD - Côté Lake Project

Testpit Number	TP-109
Sample Number	TP-109-1
Sample Depth(m)	0.75

Date Received: January 11, 2013
Date Tested: January 16, 2013

Sampled Date: N/A
Golder Lab No.: GA3570

Sieve Size	Percent Passing
75 mm	100.0
50.0 mm	100.0
37.5 mm	100.0
26.5 mm	100.0
19.0 mm	100.0
13.2 mm	98.8
9.5 mm	95.2
4.75 mm	90.4
2.00 mm	85.5
0.850 mm	80.0
0.425 mm	75.9
0.250 mm	72.7
0.106 mm	67.0
0.075 mm	64.2
0.0496 mm	49.2
0.0362 mm	40.7
0.0238 mm	29.7
0.0143 mm	17.8
0.0103 mm	11.0
0.0065 mm	5.1
0.0034 mm	2.5
0.0015 mm	1.7

Reviewed by:
Sylvie LaPorte, Laboratory Manager

Date: January 24, 2013

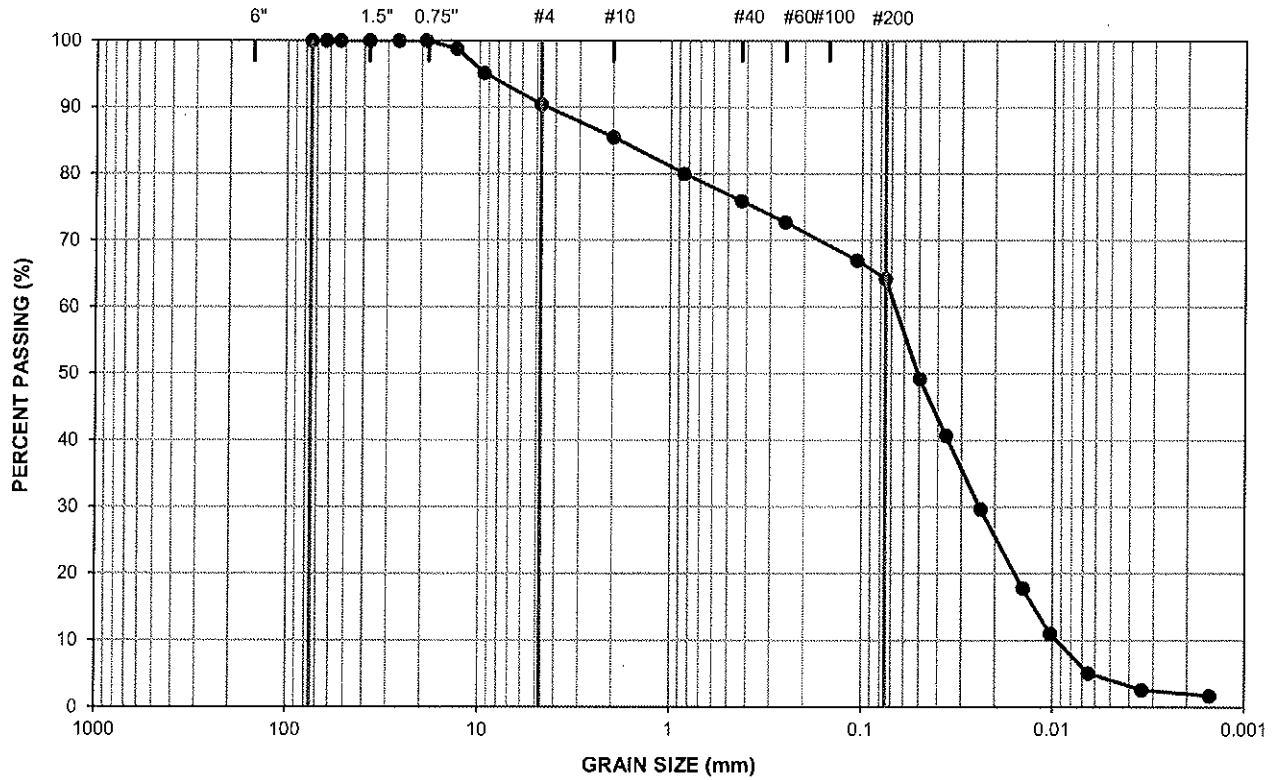


PARTICLE SIZE DISTRIBUTION
IAMGOLD - Côté Lake Project

UNIFIED SOIL CLASSIFICATION SYSTEM

Boulder Size	Cobble Size	Coarse	Fine	Coarse	Medium	Fine	Silt & Clay Sizes
		Gravel Size		Sand Size			

U.S. STANDARD SIEVE SIZE (inch / mesh)



DATE:	January 16, 2013	TESTPIT:	TP-109
PROJECT #:	12-1192-0010(8300)(8310)	SAMPLE:	TP-109-1
LAB #:	GA3570	DEPTH(m):	0.75

Reviewed:



CERTIFIED CONCRETE
 TESTING LABORATORY
 CSA Standard A283





APPENDIX I

Overburden Hydraulic Conductivity

General Overburden Category	Material Type(s) Tested	Test Location	Sample Number	Effective Grain Size (d ₁₀)		Coefficient (C) (cm/mm ² s)	Hydraulic Conductivity		
				(mm)	(cm)		K (cm/s)	K (m/s)	K (m/d)
Coarse Granular	GRAVEL/SAND, SAND/GRAVEL	DH12-PO-09	SPT-1	0.03	0.003	100	9.E-04	9.E-06	0.78
		DH12-PO-21	SPT-13	0.042	0.0042	100	2.E-03	2.E-05	1.52
		DH12-PO-21	SPT-13	0.041	0.0041	100	2.E-03	2.E-05	1.45
		DH12-TMF-06	SPT-5	0.12	0.012	100	1.E-02	1.E-04	12.44
		DH12-TMF-11	SPT-3	0.12	0.012	100	1.E-02	1.E-04	12.44
		DH12-TMF-24	SPT-1	0.38	0.038	100	1.E-01	1.E-03	124.76
		TP12-BP-01	BU-1	0.16	0.016	100	3.E-02	3.E-04	22.12
		TP12-BP-11	BU-1	0.055	0.0055	100	3.E-03	3.E-05	2.61
		TP12-PO-20	BU-1	0.026	0.0026	100	7.E-04	7.E-06	0.58
		TP12-PO-31	BU-1	0.105	0.0105	100	1.E-02	1.E-04	9.53
		TP12-TMF-26	BU-2	0.12	0.012	100	1.E-02	1.E-04	12.44
		TP13-PO-01	BU-3	0.016	0.0016	100	3.E-04	3.E-06	0.22
		TP13-PO-08	BU-2	0.049	0.0049	100	2.E-03	2.E-05	2.07
		TP13-WD-16	BU-2	0.015	0.0015	100	2.E-04	2.E-06	0.19
		DH12-PO-16	SPT-11	0.03	0.003	100	9.E-04	9.E-06	0.78
		DH12-PO-16	SPT-11	0.03	0.003	100	9.E-04	9.E-06	0.78
		DH12-PO-21	SPT-12	0.04	0.004	100	2.E-03	2.E-05	1.38
		DH12-PO-21	SPT-12	0.04	0.004	100	2.E-03	2.E-05	1.38
		DH12-PO-22	SPT-25	0.075	0.0075	100	6.E-03	6.E-05	4.86
		DH12-PO-22	SPT-25	0.072	0.0072	100	5.E-03	5.E-05	4.48
		DH12-TMF-15	SPT-3	0.084	0.0084	100	7.E-03	7.E-05	6.10
		DH12-TMF-19	SPT-6	0.105	0.0105	100	1.E-02	1.E-04	9.53
		DH12-TMF-31	SPT-3	0.022	0.0022	100	5.E-04	5.E-06	0.42
		DH12-TMF-31	SPT-3	0.022	0.0022	100	5.E-04	5.E-06	0.42
		DH12-WD-16	SPT-11	0.057	0.0057	100	3.E-03	3.E-05	2.81
		DH12-WD-22	SPT-9	0.05	0.005	100	3.E-03	3.E-05	2.16
		DH12-WD-22	SPT-10	0.06	0.006	100	4.E-03	4.E-05	3.11
		DH12-WD-22	SPT-10	0.06	0.006	100	4.E-03	4.E-05	3.11
		DH12-WD-22	SPT-9	0.049	0.0049	100	2.E-03	2.E-05	2.07
		TP12-BP-12	BU-2	0.045	0.0045	100	2.E-03	2.E-05	1.75
		TP12-BP-13	BU-1	0.063	0.0063	100	4.E-03	4.E-05	3.43
		TP12-BP-15	BU-1	0.013	0.0013	100	2.E-04	2.E-06	0.15
		TP12-BP-16	BU-1	0.03	0.003	100	9.E-04	9.E-06	0.78
		TP13-FD-05	BU-3	0.012	0.0012	100	1.E-04	1.E-06	0.12
		TP13-PO-01	BU-2	0.013	0.0013	100	2.E-04	2.E-06	0.15
		TP13-PO-11	BU-2	0.015	0.0015	100	2.E-04	2.E-06	0.19
		TP13-PO-13	BU-1	0.026	0.0026	100	7.E-04	7.E-06	0.58
		TP13-PO-25	BU-1	0.011	0.0011	100	1.E-04	1.E-06	0.10
		TP13-WD-02	BU-2	0.022	0.0022	100	5.E-04	5.E-06	0.42
		TP13-WD-15	BU-2	0.03	0.003	100	9.E-04	9.E-06	0.78
TP16	2	0.03	0.003	100	9.E-04	9.E-06	0.78		
TP17	1	0.021	0.0021	100	4.E-04	4.E-06	0.38		
Max							1.E-01	1.E-03	124.76
Min							1.E-04	1.E-06	0.10
Geomean							2.E-03	2.E-05	1.45

General Overburden Category	Material Type Tested	Test Location	Sample Number	Effective Grain Size (d ₁₀)		Coefficient (C) (cm/mm ² s)	Hydraulic Conductivity		
				(mm)	(cm)		K (cm/s)	K (m/s)	K (m/d)
Fine Granular	SAND	DH12-PO-07R	SPT-5	0.12	0.012	100	1.E-02	1.E-04	12.44
		DH12-PO-07R	SPT-7	0.03	0.003	100	9.E-04	9.E-06	0.78
		DH12-PO-07R	SPT-5	0.12	0.012	100	1.E-02	1.E-04	12.44
		DH12-PO-07R	SPT-7	0.03	0.003	100	9.E-04	9.E-06	0.78
		DH12-PO-16	SPT-9	0.095	0.0095	100	9.E-03	9.E-05	7.80
		DH12-PO-16	SPT-9	0.095	0.0095	100	9.E-03	9.E-05	7.80
		DH12-PO-20	SPT-1	0.018	0.0018	100	3.E-04	3.E-06	0.28
		DH12-PO-20	SPT-8	0.034	0.0034	100	1.E-03	1.E-05	1.00
		DH12-PO-20	SPT-1	0.017	0.0017	100	3.E-04	3.E-06	0.25
		DH12-PO-20	SPT-8	0.032	0.0032	100	1.E-03	1.E-05	0.88
		DH12-PO-21	SPT-16	0.04	0.004	100	2.E-03	2.E-05	1.38
		DH12-PO-21	SPT-20	0.01	0.001	100	1.E-04	1.E-06	0.09
		DH12-PO-21	SPT-16	0.04	0.004	100	2.E-03	2.E-05	1.38
		DH12-PO-21	SPT-20	0.01	0.001	100	1.E-04	1.E-06	0.09
		DH12-PO-22	SPT-16	0.25	0.025	100	6.E-02	6.E-04	54.00
		DH12-PO-22	SPT-18	0.16	0.016	100	3.E-02	3.E-04	22.12
		DH12-PO-22	SPT-21	0.06	0.006	100	4.E-03	4.E-05	3.11
		DH12-PO-22	SPT-16	0.25	0.025	100	6.E-02	6.E-04	54.00
		DH12-PO-22	SPT-18	0.17	0.017	100	3.E-02	3.E-04	24.97
		DH12-PO-22	SPT-21	0.061	0.0061	100	4.E-03	4.E-05	3.21
		DH12-TMF-17	SPT-8	0.18	0.018	100	3.E-02	3.E-04	27.99
		DH12-TMF-17	SPT-5	0.17	0.017	100	3.E-02	3.E-04	24.97
		DH12-TMF-22	SPT-3	0.12	0.012	100	1.E-02	1.E-04	12.44
		DH12-TMF-23	SPT-7	0.04	0.004	100	2.E-03	2.E-05	1.38
		DH12-TMF-26	SPT-12	0.041	0.0041	100	2.E-03	2.E-05	1.45
		DH12-TMF-28	SPT-5	0.01	0.001	100	1.E-04	1.E-06	0.09
		DH12-WD-13	SPT-6	0.17	0.017	100	3.E-02	3.E-04	24.97
		DH12-WD-15	SPT-7	0.2	0.02	100	4.E-02	4.E-04	34.56
		DH12-WD-18	SPT-10	0.13	0.013	100	2.E-02	2.E-04	14.60
		DH12-WD-23	SPT-8	0.17	0.017	100	3.E-02	3.E-04	24.97
		DH12-WD-23	SPT-9	0.085	0.0085	100	7.E-03	7.E-05	6.24
		DH13-FD-06	SPT-8	0.028	0.0028	100	8.E-04	8.E-06	0.68
		DH13-PO-04	SPT-8	0.076	0.0076	100	6.E-03	6.E-05	4.99
		DH13-PO-05	SPT-4	0.083	0.0083	100	7.E-03	7.E-05	5.95
		DH13-PO-05	SPT-11	0.03	0.003	100	9.E-04	9.E-06	0.78
		DH13-PO-09	SPT-4	0.093	0.0093	100	9.E-03	9.E-05	7.47
		DH13-PO-09	SPT-3	0.016	0.0016	100	3.E-04	3.E-06	0.22
		DH13-PO-10	SPT-7	0.1	0.01	100	1.E-02	1.E-04	8.64
		DH13-PO-13	SPT-9	0.06	0.006	100	4.E-03	4.E-05	3.11
		DH13-PO-14	SPT-9	0.071	0.0071	100	5.E-03	5.E-05	4.36
		DH13-PO-15	SPT-9	0.065	0.0065	100	4.E-03	4.E-05	3.65
		DH13-PO-15	SPT-11	0.024	0.0024	100	6.E-04	6.E-06	0.50
		DH13-PO-23	SPT-12	0.085	0.0085	100	7.E-03	7.E-05	6.24
		DH13-WD-01	SPT-7	0.089	0.0089	100	8.E-03	8.E-05	6.84
		DH13-WD-06	SPT-13	0.058	0.0058	100	3.E-03	3.E-05	2.91
		DH13-WD-06	SPT-10	0.017	0.0017	100	3.E-04	3.E-06	0.25
		DH13-WD-06	SPT-7	0.013	0.0013	100	2.E-04	2.E-06	0.15
		DH13-WD-08	SPT-6	0.04	0.004	100	2.E-03	2.E-05	1.38
		DH13-WD-08	SPT-4	0.02	0.002	100	4.E-04	4.E-06	0.35
		TP12-BP-20	BU-1	0.15	0.015	100	2.E-02	2.E-04	19.44
TP12-PO-25	BU-1	0.078	0.0078	100	6.E-03	6.E-05	5.26		
TP12-PO-35	BU-2	0.1	0.01	100	1.E-02	1.E-04	8.64		
TP12-TMF-60	BU-1	0.018	0.0018	100	3.E-04	3.E-06	0.28		
TP13-PO-06	BU-2	0.021	0.0021	100	4.E-04	4.E-06	0.38		
TP13-PO-34	BU-2	0.023	0.0023	100	5.E-04	5.E-06	0.46		
TP13-PO-35	BU-2	0.02	0.002	100	4.E-04	4.E-06	0.35		
TP13-PO-38	BU-1	0.03	0.003	100	9.E-04	9.E-06	0.78		
TP13-PO-39	BU-1	0.012	0.0012	100	1.E-04	1.E-06	0.12		
TP13-PO-40	BU-2	0.034	0.0034	100	1.E-03	1.E-05	1.00		
TP13-PO-43	BU-2	0.06	0.006	100	4.E-03	4.E-05	3.11		
TP13-WD-01A	BU-2	0.012	0.0012	100	1.E-04	1.E-06	0.12		
TP13-WD-03	BU-2	0.027	0.0027	100	7.E-04	7.E-06	0.63		
TP13-WD-14	BU-1	0.067	0.0067	100	4.E-03	4.E-05	3.88		
TP4	1	0.011	0.0011	100	1.E-04	1.E-06	0.10		
TP8	2	0.011	0.0011	100	1.E-04	1.E-06	0.10		
TP16	1	0.03	0.003	100	9.E-04	9.E-06	0.78		
TP104	1	0.015	0.0015	100	2.E-04	2.E-06	0.19		
Max							6.E-02	6.E-04	54.00
Min							1.E-04	1.E-06	0.09
Geomean							2.E-03	2.E-05	1.91

General Overburden Category	Material Type(s) Tested	Test Location	Sample Number	Effective Grain Size (d ₁₀)		Coefficient (C) (cm/mm ² s)	Hydraulic Conductivity		
				(mm)	(cm)		K (cm/s)	K (m/s)	K (m/d)
Fine Granular	SAND/SILT and SILT/SAND	DH12-PO-05R	SPT-4	0.023	0.0023	50	3.E-04	3.E-06	0.23
		DH12-PO-07R	SPT-9	0.022	0.0022	50	2.E-04	2.E-06	0.21
		DH12-PO-07R	SPT-9	0.022	0.0022	50	2.E-04	2.E-06	0.21
		DH12-PO-17	SPT-5	0.019	0.0019	50	2.E-04	2.E-06	0.16
		DH12-PO-17	SPT-5	0.018	0.0018	50	2.E-04	2.E-06	0.14
		DH12-PO-19	SPT-4	0.022	0.0022	50	2.E-04	2.E-06	0.21
		DH12-PO-19	SPT-4	0.024	0.0024	50	3.E-04	3.E-06	0.25
		DH12-PO-21	SPT-18	0.03	0.003	50	5.E-04	5.E-06	0.39
		DH12-PO-21	SPT-18	0.03	0.003	50	5.E-04	5.E-06	0.39
		DH12-TMF-20	SPT-9	0.016	0.0016	50	1.E-04	1.E-06	0.11
		DH12-TMF-28	SPT-2	0.011	0.0011	50	6.E-05	6.E-07	0.05
		DH12-TMF-30	SPT-5	0.017	0.0017	50	1.E-04	1.E-06	0.12
		DH12-WD-03	SPT-3	0.015	0.0015	50	1.E-04	1.E-06	0.10
		DH13-FD-06	SPT-9	0.075	0.0075	50	3.E-03	3.E-05	2.43
		DH13-FD-06	SPT-11	0.017	0.0017	50	1.E-04	1.E-06	0.12
		DH13-PO-03	SPT-5	0.06	0.006	50	2.E-03	2.E-05	1.56
		DH13-PO-03	SPT-11	0.013	0.0013	50	8.E-05	8.E-07	0.07
		DH13-PO-10	SPT-10	0.018	0.0018	50	2.E-04	2.E-06	0.14
		DH13-PO-15	SPT-7	0.029	0.0029	50	4.E-04	4.E-06	0.36
		DH13-PO-22	SPT-6	0.016	0.0016	50	1.E-04	1.E-06	0.11
		DH13-WD-02	SPT-8	0.02	0.002	50	2.E-04	2.E-06	0.17
		DH13-WD-12	SPT-12	0.011	0.0011	50	6.E-05	6.E-07	0.05
		TP12-PO-10	BU-1	0.061	0.0061	50	2.E-03	2.E-05	1.61
		TP12-PO-34	BU-2	0.035	0.0035	50	6.E-04	6.E-06	0.53
		TP13-FD-01	BU-1	0.013	0.0013	50	8.E-05	8.E-07	0.07
		TP13-PO-04	BU-1	0.013	0.0013	50	8.E-05	8.E-07	0.07
		TP13-PO-06	BU-1	0.018	0.0018	50	2.E-04	2.E-06	0.14
		TP13-PO-10	BU-1	0.021	0.0021	50	2.E-04	2.E-06	0.19
		TP13-PO-12	BU-2	0.019	0.0019	50	2.E-04	2.E-06	0.16
		TP13-RCP-04	BU-2	0.033	0.0033	50	5.E-04	5.E-06	0.47
		TP13-WD-05	BU-2	0.017	0.0017	50	1.E-04	1.E-06	0.12
		TP106	1	0.015	0.0015	50	1.E-04	1.E-06	0.10
		DH12-PO-03R	SPT-9	0.017	0.0017	40	1.E-04	1.E-06	0.10
		DH12-PO-03R	SPT-9	0.016	0.0016	40	1.E-04	1.E-06	0.09
		DH12-PO-05R	SPT-5	0.013	0.0013	40	7.E-05	7.E-07	0.06
		DH12-PO-08R	SPT-4	0.01	0.001	40	4.E-05	4.E-07	0.03
		DH12-PO-08R	SPT-4	0.01	0.001	40	4.E-05	4.E-07	0.03
		DH12-PO-19	SPT-2	0.01	0.001	40	4.E-05	4.E-07	0.03
		DH12-PO-19	SPT-3	0.012	0.0012	40	6.E-05	6.E-07	0.05
		DH12-PO-19	SPT-3	0.012	0.0012	40	6.E-05	6.E-07	0.05
		DH12-PO-20	SPT-5	0.011	0.0011	40	5.E-05	5.E-07	0.04
		DH12-PO-20	SPT-5	0.011	0.0011	40	5.E-05	5.E-07	0.04
		DH12-TMF-17	SPT-15	0.016	0.0016	40	1.E-04	1.E-06	0.09
		DH12-WD-16	SPT-6	0.025	0.0025	40	3.E-04	3.E-06	0.22
		DH12-WD-17	SPT-9	0.018	0.0018	40	1.E-04	1.E-06	0.11
		DH12-WD-18	SPT-7	0.014	0.0014	40	8.E-05	8.E-07	0.07
		DH13-PO-03	SPT-8	0.017	0.0017	40	1.E-04	1.E-06	0.10
		DH13-PO-14	SPT-4	0.015	0.0015	40	9.E-05	9.E-07	0.08
		TP12-PO-14	BU-1	0.018	0.0018	40	1.E-04	1.E-06	0.11
		TP13-PO-37	BU-1	0.016	0.0016	40	1.E-04	1.E-06	0.09
DH13-PO-02	SPT-13	0.019	0.0019	40	1.E-04	1.E-06	0.12		
TP13-FD-20	BU-2	0.011	0.0011	40	5.E-05	5.E-07	0.04		
DH12-TMF-13	SPT-2	0.01	0.001	40	4.E-05	4.E-07	0.03		
TP12-PO-06	BU-1	0.011	0.0011	40	5.E-05	5.E-07	0.04		
					Max	3.E-03	3.E-05	2.43	
					Min	4.E-05	4.E-07	0.03	
					Geomean	1.E-04	1.E-06	0.13	

General Overburden Category	Material Type (s)	Monitoring Well ID	Screened Interval (mbgs)		Test Number	Test Type	Hydraulic Conductivity			
			from	to			K (m/s)	K (m/d)		
Coarse Granular	TILL	DH12-PO-14B	15.44	13.94	1	Rising head	1.4E-04	11.69		
		DH12-PO-16A	14.67	11.67	1	Rising head	6.6E-06	0.57		
		DH12-PO-20A	10.81	7.81	1	Rising head	5.2E-06	0.45		
					2	Rising head	6.5E-06	0.56		
		DH12-PO-22	22.01	19.01	1	Rising head	1.0E-04	8.88		
					2	Rising head	1.4E-06	0.12		
		DH12-TMF-20B	11.28	9.76	1	Rising head	2.0E-06	0.17		
		DH12-TMF-24B	4.47	2.95	1	Rising head	1.2E-06	0.11		
		DH12-TMF-25B	8.89	5.84	1	Rising head	2.5E-03	213.04		
		DH12-TMF-27B	3.45	1.93	1	Rising head	8.9E-04	77.07		
		DH12-TMF-31B	2.80	1.90	1	Rising head	1.7E-06	0.14		
					2	Rising head	1.9E-06	0.16		
	DH12-TMF-32B	2.73	1.83	1	Rising head	5.5E-04	47.93			
								Max	2.5E-03	213.0
								Min	1.2E-06	0.1
								Geomean	1.9E-05	1.6
	GRAVEL, GRAVEL/SAND, SAND/GRAVEL	DH13-WD-03A	11.28	8.28	1	Falling Head	6.2E-06	0.53		
					2	Rising Head	5.7E-06	0.49		
					3	Falling Head	7.0E-06	0.61		
					4	Rising Head	7.1E-06	0.62		
		DH13-PO-02	13.49	12.00	1	Falling Head	7.5E-05	6.49		
					2	Rising Head	7.3E-05	6.35		
					3	Falling Head	7.2E-05	6.22		
					4	Rising Head	7.8E-05	6.73		
		DH12-WD-25B	2.25	0.75	1	Rising head	1.0E-04	8.88		
		BH12-2B	4.60	3.08	1	Rising head	2.2E-04	19.01		
		BH12-3B	7.32	5.80	1	Rising head	3.6E-04	31.10		
		DH13-WD-08B	5.00	2.00	1	Falling Head	8.1E-05	7.00		
2					Rising Head	5.6E-05	4.80			
3					Falling Head	1.0E-04	8.63			
4					Rising Head	5.8E-05	4.97			
							Max	3.6E-04	31.1	
							Min	5.7E-06	0.5	
							Geomean	4.7E-05	4.0	

Note:
mbgs refers to metres below ground surface

General Overburden Category	Material Type (s)	Monitoring Well ID	Screened Interval (mbgs)		Test Number	Test Type	Hydraulic Conductivity			
			from	to			K (m/s)	K (m/d)		
Fine Granular	SAND	DH12-PO-16B	8.95	5.95	1	Rising head	1.1E-06	0.10		
		DH13-WD-07B	5.80	2.80	1	Falling Head	7.2E-05	6.19		
					2	Rising Head	9.5E-05	8.22		
					3	Falling Head	7.8E-05	6.74		
					4	Rising Head	8.7E-05	7.50		
		DH13-PO-09B	3.51	2.01	1	Falling Head	1.6E-05	1.42		
					2	Rising Head	1.1E-05	0.92		
					3	Falling Head	1.1E-05	0.97		
					4	Rising Head	1.1E-05	0.97		
		DH12-PO-21C	9.64	8.12	1	Rising Head	8.5E-08	0.01		
					2	Falling Head	2.6E-07	0.02		
					3	Rising Head	1.4E-07	0.01		
		DH12-PO-21B	14.34	11.34	1	Rising head	2.0E-06	0.17		
								Max	9.5E-05	8.2
								Min	8.5E-08	0.01
							Geomean	5.7E-06	0.5	
	SAND/SILT, SILT/SAND	SAND/SILT, SILT/SAND	DH12-PO-08RB	4.15	2.65	1	Rising head	1.2E-05	1.05	
			DH12-WD-17B	10.23	8.73	1	Rising head	2.1E-06	0.18	
						2	Rising head	2.1E-06	0.18	
						3	Rising head	1.4E-05	1.25	
			DH12-TMF-23B	4.20	2.68	1	Rising head	1.3E-05	1.15	
			DH13-PO-22	6.60	5.10	1	Falling Head	8.2E-07	0.07	
						2	Rising Head	7.1E-07	0.06	
			DH12-PO-01RB	5.32	2.32	1	Rising head	3.8E-06	0.33	
						2	Rising head	8.6E-06	0.75	
			DH12-PO-20B	4.47	2.97	1	Rising head	7.6E-06	0.65	
						2	Rising head	6.1E-06	0.53	
						Max	1.4E-05	1.2		
						Min	7.1E-07	0.06		
						Geomean	4.3E-06	0.4		
Fine Grained	SILT	DH13-WD-03B	4.42	1.42	1	Falling Head	1.5E-06	0.13		
					2	Rising Head	1.8E-06	0.16		
					3	Rising Head	1.7E-06	0.14		
		DH13-PO-01	7.01	3.97	1	Rising Head	3.7E-07	0.03		
								Max	1.8E-06	0.2
								Min	3.7E-07	0.03
						Geomean	1.1E-06	0.1		

Note:
mbgs refers to metres below ground surface



APPENDIX J

Bedrock Hydraulic Conductivity

Borehole/Drillhole ID	Test Number	Test Interval				Bedrock Type	Hydraulic Conductivity (m/s)		
		Top	Bottom	Middle	Length		Lugeon Test ⁽²⁾	Slug Test	
		(mbtor) ⁽¹⁾							
0-10 m Depth									
DH12-TMF-03	1	-0.12	3.05	1.47	3.17	Granite	1.0E-11		
DH12-TMF-25A	1	0.04	3.08	1.56	3.04	Bedrock		3.4E-04	
DH12-TMF-25	1	-0.20	3.40	1.60	3.60	Granite/Quartzite	5.4E-06		
DH12-WD-17A	1	1.03	2.53	1.78	1.50	Bedrock		6.9E-09	
DH12-WD-26	1	1.05	2.55	1.80	1.50	Bedrock		6.7E-06	
DH12-TMF-28	1	1.20	2.70	1.95	1.50	Bedrock		6.5E-08	
DH12-PO-10	1	1.22	2.72	1.97	1.50	Bedrock		1.8E-09	
DH12-TMF-18	2	0.46	3.48	1.97	3.02	Granite	1.0E-11		
DH12-WD-27A	1	1.30	2.82	2.06	1.52	Bedrock		1.5E-06	
DH12-WD-12A	1	1.32	2.82	2.07	1.50	Bedrock		8.0E-06	
DH12-WD-01	1	1.35	2.85	2.10	1.50	Bedrock		1.5E-05	
DH12-WD-25A	1	1.48	3.00	2.24	1.52	Bedrock		1.4E-05	
DH12-TMF-02	2	0.61	4.04	2.33	3.43	Granite	3.9E-07		
BH12-3A	1	1.58	3.10	2.34	1.52	Tonalite		3.9E-08	
DH12-PO-13	1	1.63	3.13	2.38	1.50	Bedrock		3.8E-06	
DH12-TMF-09	1	0.70	4.30	2.50	3.60	Granite	4.3E-08		
DH12-TMF-24	1	0.41	4.90	2.66	4.49	Granite	3.2E-09		
DH12-PO-05A	1	1.91	3.41	2.66	1.50	Bedrock		1.2E-04	
DH12-TMF-27	1	0.84	4.50	2.67	3.66	Granite	1.3E-06		
DH12-TMF-05	1	0.90	4.75	2.83	3.85	Granite	3.5E-07		
DH12-TMF-30	1	0.62	5.03	2.83	4.41	Granite	1.0E-11		
DH12-TMF-06	1	0.15	5.55	2.85	5.40	Granite	1.8E-06		
DH12-TMF-04	1	0.90	4.85	2.88	3.95	Granite	2.4E-09		
DH12-TMF-24A	1	1.43	4.47	2.95	3.04	Bedrock		1.6E-07	
DH12-TMF-20	1	0.91	5.05	2.98	4.14	Granite	3.7E-06		
DH12-TMF-07	1	1.00	5.00	3.00	4.00	Granite	7.0E-07		
DH12-TMF-29	1	0.95	5.09	3.02	4.14	Granite	6.6E-06		
DH12-TMF-23A	1	1.50	4.54	3.02	3.04	Bedrock		1.3E-07	
DH12-TMF-01	1	0.96	5.12	3.04	4.16	Granite	1.0E-11		
DH12-TMF-16	1	0.98	5.10	3.04	4.12	Granite	2.4E-05		
DH12-TMF-14	1	0.60	5.50	3.05	4.90	Diabase	2.6E-06		
DH12-TMF-15	3	0.80	5.40	3.10	4.60	Diabase	5.4E-06		
BH12-2A	1	2.37	3.89	3.13	1.52	Tonalite		4.8E-07	
DH12-TMF-30	1	1.65	4.65	3.15	3.00	Bedrock		1.6E-07	
DH12-TMF-10	1	1.07	5.24	3.16	4.17	Granite	1.1E-05		
DH12-TMF-08	1	0.98	5.36	3.17	4.38	Granite	1.0E-11		
BH12-4	1	2.48	4.00	3.24	1.52	Tonalite		3.8E-07	
DH12-PO-01RA	1	1.77	4.77	3.27	3.00	Bedrock		8.7E-06	
DH12-TMF-23	1	1.41	5.14	3.28	3.73	Granite	1.0E-11		
DH12-WD-14	1	2.54	4.04	3.29	1.50	Bedrock		6.7E-07	
DH12-WD-05R	1	2.61	4.11	3.36	1.50	Bedrock		8.4E-06	
DH12-TMF-31	1	0.60	6.15	3.38	5.55	Diabase	2.3E-06		
DH12-TMF-29	1	1.99	5.06	3.53	3.07	Bedrock		6.1E-05	
DH12-PO-08RA	1	2.17	5.17	3.67	3.00	Bedrock		1.4E-07	
DH12-TMF-26	1	2.60	5.60	4.10	3.00	Bedrock		4.8E-08	
DH12-TMF-31A	1	2.79	5.79	4.29	3.00	Bedrock		6.7E-06	
DH12-TMF-13	1	0.94	7.88	4.41	6.94	Diabase	1.0E-11		
BH12-6	1	3.98	5.50	4.74	1.52	Tonalite		4.0E-07	
DH12-TMF-22	2	1.58	8.29	4.94	6.71	Diabase	1.0E-11		
DH12-TMF-17	1	1.89	10.25	6.07	8.36	Syenite/Granite	3.9E-08		
DH12-TMF-17	2	1.89	10.25	6.07	8.36	Syenite/Granite	4.2E-08		
DH12-TMF-19	2	3.97	8.22	6.10	4.25	Granite	9.1E-09		
DH12-TMF-22	1	4.62	8.29	6.46	3.67	Diabase	1.0E-11		
BH12-1	1	5.93	7.45	6.69	1.52	Tonalite		1.7E-08	
DH12-TMF-12	2	0.48	15.01	7.75	14.53	Granite	2.5E-08		
DH12-TMF-17	3	6.87	10.25	8.56	3.38	Granite	8.0E-08		
						Max	3.4E-04		
						Min	1.0E-11		
						Geomean	1.0E-07		
						Number of Tests	56		

Notes:

Blank cells represent locations where the material is not present

(1) mbtor refers to metres below top of bedrock

(2) Hydraulic conductivity values of 1.0E-11 were assigned to test intervals where there was no measurable flow observed during the packer test

Borehole/Drillhole ID	Test Number	Test Interval				Bedrock Type	Hydraulic Conductivity (m/s)	
		Top	Bottom	Middle	Length		Lugeon Test ⁽²⁾	Slug Test
		(m btor) ⁽¹⁾			(m)			
10-50 m Depth								
GT-12-04	24	7.65	12.48	10.07	4.83	Diabase Dyke	2.8E-07	
DH12-TMF-11	2	3.67	18.27	10.97	14.60	Schist/Granite	1.0E-11	
DH12-TMF-12	1	9.52	15.01	12.27	5.49	Granite	6.3E-08	
GT-12-06	20	10.19	14.78	12.49	4.60	Tonalite	6.7E-06	
DH12-TMF-12	1	10.44	15.01	12.73	4.57	Bedrock		5.00E-07
GT-12-02	7	11.56	17.20	14.38	5.64	Tonalite	1.1E-07	
DH12-TMF-11	1	14.73	17.77	16.25	3.04	Bedrock		1.28E-08
DH12-TMF-11	1	14.80	18.27	16.54	3.47	Granite	8.4E-08	
GT-12-03	8	14.12	21.91	18.01	7.79	Intermediate Dyke	5.1E-07	
GT-12-06	19	18.61	23.21	20.91	4.60	Fault	1.8E-08	
GT-12-01	16	19.50	25.63	22.57	6.12	Diabase Dyke	3.1E-09	
GT-12-04	1	14.34	35.67	25.01	21.33	Tonalite and Mafic Dyke	6.3E-08	
GT-12-06	1	12.49	39.07	25.78	26.58	Tonalite	6.0E-08	
GT-12-04	23	27.72	32.55	30.13	4.83	Mafic dyke	1.4E-08	
GT-12-02	1	12.50	47.92	30.21	35.43	Tonalite and Diorite	7.9E-07	
GT-12-01	1	29.04	35.86	32.45	6.82	Diabase Dyke	9.5E-08	
GT-12-01	15	30.87	35.25	33.06	4.37	Diabase Dyke	5.9E-08	
GT-12-05	25	37.50	44.43	40.96	6.93	Mafic Dyke	3.5E-09	
GT-12-05	2	14.12	70.15	42.13	56.03	Tonalite and Diorite	6.9E-08	
GT-12-04	22	45.55	48.16	46.86	2.60	Mafic Dyke	1.4E-08	
GT-12-03	9	43.56	51.36	47.46	7.79	Tonalite	6.1E-09	
GT-12-06	18	44.66	51.55	48.11	6.89	Mafic Dyke and Tonalite	4.4E-07	
						Max	6.7E-06	
						Min	1.0E-11	
						Geomean	4.6E-08	
						Number of Tests	22	
50-200 m Depth								
GT-12-05	24	47.89	54.82	51.36	6.93	Mafic Dyke and Tonalite	1.1E-08	
GT-12-04	2	32.18	71.34	51.76	39.16	Tonalite and Mafic Dyke	2.7E-08	
GT-12-04	21	55.96	58.56	57.26	2.60	Tonalite and Mafic Dyke	5.5E-08	
GT-12-06	2	40.06	78.14	59.10	38.07	Tonalite	9.7E-07	
GT-12-01	2	44.34	92.27	68.31	47.93	Tonalite	8.5E-09	
GT-12-02	6	66.06	74.52	70.29	8.46	Tonalite	6.3E-07	
GT-12-04	3	65.62	75.80	70.71	10.18	Mafic Dyke	7.4E-10	
GT-12-02	2	49.15	95.85	72.50	46.70	Diorite and Tonalite	4.2E-07	
GT-12-06	17	69.94	76.07	73.00	6.13	Mafic Dyke and Tonalite	6.7E-09	
GT-12-03	7	76.47	81.67	79.07	5.20	Mafic Dyke	3.2E-09	
GT-12-01	3	85.01	92.27	88.64	7.26	Tonalite and Mafic Dyke	1.5E-09	
GT-12-01	14	86.85	92.10	89.47	5.25	Tonalite	3.6E-09	
GT-12-04	4	72.31	109.24	90.78	36.93	Tonalite	1.2E-09	
GT-12-05	3	71.27	114.32	92.79	43.04	Tonalite and Diorite	4.6E-10	
GT-12-04	20	90.14	96.46	93.30	6.32	Tonalite and Mafic Dyke	2.6E-10	
GT-12-06	3	76.83	114.91	95.87	38.07	Tonalite	6.8E-10	
GT-12-04	19	96.83	102.41	99.62	5.57	Tonalite and Mafic Dyke	2.3E-09	
GT-12-02	3	97.07	129.68	113.37	32.61	Tonalite	4.7E-07	
GT-12-04	18	113.40	120.46	116.93	7.06	Fault	4.0E-06	
GT-12-03	10	113.71	121.50	117.61	7.79	Mafic Dyke	1.0E-11	
GT-12-04	6	112.44	127.08	119.76	14.64	Tonalite and Fault	3.6E-07	
GT-12-05	4	115.44	137.70	126.57	22.26	Diorite and Diabase dyke	3.9E-09	
GT-12-05	20	123.24	130.60	126.92	7.36	Diabase Dyke	9.9E-09	
GT-12-03	6	124.97	133.63	129.30	8.66	Tonalite	6.4E-07	
GT-12-02	4	130.90	152.23	141.56	21.33	Tonalite	3.6E-07	
GT-12-06	4	118.20	172.36	145.28	54.16	Tonalite	1.0E-11	
GT-12-02	5	142.18	150.63	146.40	8.46	Diorite and Tonalite	4.2E-07	
GT-12-01	4	131.46	177.55	154.50	46.09	Tonalite	1.0E-11	
GT-12-02	22	153.45	161.91	157.68	8.46	Diorite	1.0E-11	
GT-12-03	11	159.61	167.40	163.51	7.79	Diabase	1.0E-11	
GT-12-05	5	138.82	194.86	166.84	56.03	Diorite and Tonalite	2.9E-11	
GT-12-02	8	167.55	175.06	171.31	7.52	Tonalite	4.1E-07	
GT-12-04	8	163.71	198.42	181.07	34.70	Tonalite	1.0E-11	
GT-12-02	21	178.82	187.28	183.05	8.46	Diorite	1.0E-11	
GT-12-06	5	173.36	193.04	183.20	19.69	Tonalite	1.3E-10	
GT-12-02	9	190.10	209.63	199.86	19.53	Diorite	1.0E-11	
						Max	4.0E-06	
						Min	1.0E-11	
						Geomean	3.0E-09	
						Number of Tests	36	

Notes:

Blank cells represent locations where the material is not present

(1) "mbtor" refers to metres below top of bedrock

(2) Hydraulic conductivity values of 1.0E-11 were assigned to test intervals where there was no measurable flow observed during the packer test

Borehole/Drillhole ID	Test Number	Test Interval				Bedrock Type	Hydraulic Conductivity (m/s)	
		Top	Bottom	Middle	Length		Lugeon Test ⁽²⁾	Slug Test
		(mbtor) ⁽¹⁾			(m)			
Over 200 m Depth								
GT-12-03	12	201.18	206.37	203.78	5.20	Tonalite	1.0E-11	
GT-12-01	5	178.68	230.02	204.35	51.34	Tonalite	3.7E-09	
GT-12-04	9	197.16	234.09	215.62	36.93	Tonalite	2.8E-10	
GT-12-02	10	212.65	236.80	224.73	24.15	Diorite and Tonalite	1.0E-11	
GT-12-05	6	195.98	254.61	225.30	58.63	Diorite	1.0E-09	
GT-12-03	1	208.97	252.01	230.49	43.04	Tonalite	1.0E-11	
GT-12-02	20	226.75	235.21	230.98	8.46	Tonalite	1.0E-11	
GT-12-06	6	194.04	273.48	233.76	79.44	Diorite	2.4E-10	
GT-12-01	6	231.16	262.82	246.99	31.66	Tonalite	3.8E-09	
GT-12-02	11	238.02	259.36	248.69	21.33	Diorite	1.0E-11	
GT-12-04	25	248.43	254.01	251.22	5.57	Tonalite	9.5E-09	
GT-12-04	10	235.06	274.22	254.64	39.16	Tonalite	2.8E-09	
GT-12-06	13	265.28	269.88	267.58	4.60	Diorite	1.0E-11	
GT-12-03	2	253.14	303.97	278.56	50.84	Tonalite	1.0E-11	
GT-12-05	7	255.74	301.38	278.56	45.64	Diorite	1.0E-11	
GT-12-02	12	260.58	300.14	280.36	39.56	Diorite and Tonalite	1.0E-11	
GT-12-01	7	262.65	308.74	285.69	46.09	Tonalite	2.5E-10	
GT-12-04	11	275.19	309.89	292.54	34.70	Diorite Breccia	9.9E-11	
GT-12-06	7	274.47	339.28	306.88	64.81	Tonalite	3.8E-10	
GT-12-05	23	305.10	311.16	308.13	6.06	Mafic Dyke	1.0E-11	
GT-12-05	8	302.50	314.37	308.43	11.86	Mafic Dyke	1.0E-11	
GT-12-03	3	305.10	348.14	326.62	43.04	Tonalite	1.1E-09	
GT-12-04	12	310.86	347.79	329.32	36.93	Diorite Breccia	1.3E-10	
GT-12-01	8	307.25	355.97	331.61	48.72	Tonalite	1.0E-11	
GT-12-05	9	312.89	358.53	335.71	45.64	Tonalite and Mafic Dyke	8.2E-11	
GT-12-02	13	302.86	377.76	340.31	74.89	Tonalite and Diorite	5.3E-11	
GT-12-02	19	356.43	364.88	360.65	8.46	Diorite	2.0E-09	
GT-12-03	4	346.67	389.71	368.19	43.04	Tonalite	1.0E-11	
GT-12-06	8	341.12	415.96	378.54	74.84	Tonalite	3.4E-10	
GT-12-01	13B	378.10	380.72	379.41	2.62	Tonalite	1.9E-09	
GT-12-02	14	376.16	391.85	384.01	15.69	Mafic Dyke	1.0E-11	
GT-12-05	10	359.66	408.76	384.21	49.10	Diorite , Tonalite and Carbonate Breccia (Fault)	7.0E-10	
GT-12-01	9	357.11	413.70	385.40	56.59	Tonalite	3.3E-09	
GT-12-01	12	391.22	394.19	392.70	2.97	Tonalite	3.9E-08	
GT-12-03	5	385.64	431.28	408.46	45.64	Diorite Breccia and Tonalite	1.7E-10	
GT-12-04	26	310.86	510.54	410.70	199.68	Diorite Breccia and Tonalite	1.6E-10	
GT-12-04	26B	310.86	510.54	410.70	199.68	Diorite Breccia and Tonalite	1.3E-10	
GT-12-02	18	418.45	426.90	422.67	8.46	Tonalite	1.0E-11	
GT-12-05	11	406.43	444.27	425.35	37.85	Carbonate Breccia (Fault), Tonalite and Mafic Dyke	6.1E-09	
GT-12-04	27	346.53	510.54	428.53	164.01	Diorite Breccia and Tonalite	2.9E-10	
GT-12-02	15	390.25	470.79	430.52	80.53	Diorite, Tonalite Breccia and Tonalite	6.1E-11	
GT-12-01	10	414.83	455.68	435.25	40.84	Tonalite	5.5E-08	
GT-12-05	12	435.00	444.27	439.64	9.27	Tonalite and Mafic Dyke	1.0E-09	
GT-12-05	17	442.80	450.59	446.70	7.79	Tonalite	1.4E-08	
GT-12-04	28	384.43	510.54	447.48	126.11	Tonalite	2.9E-10	
GT-12-05	13	445.40	467.65	456.53	22.26	Tonalite and Mafic Dyke	4.2E-09	
GT-12-05	16B	455.79	463.58	459.69	7.79	Mafic Dyke and Tonalite	1.2E-09	
GT-12-06	9	414.66	510.19	462.42	95.53	Tonalite	9.3E-11	
GT-12-01	11A	456.81	489.79	473.30	32.97	Tonalite	5.8E-09	
GT-12-01	11B	456.81	489.79	473.30	32.97	Tonalite	6.7E-09	
GT-12-06	11	471.35	478.24	474.79	6.89	Tonalite	5.0E-09	
GT-12-03	13	432.41	519.62	476.01	87.21	Tonalite	1.0E-11	
GT-12-05	14	468.78	515.72	492.25	46.94	Tonalite and Mafic Dyke	5.7E-09	
GT-12-05	15	492.16	495.63	493.89	3.46	Mafic Dyke	5.8E-09	
GT-12-04	29	477.32	510.54	493.93	33.22	Tonalite	1.2E-08	
GT-12-02	16	469.19	518.71	493.95	49.52	Tonalite	1.0E-11	
GT-12-06	10	499.69	590.62	545.16	90.93	Tonalite	2.1E-10	
							Max	5.5E-08
							Min	1.0E-11
							Geomean	2.6E-10
							Number of Tests	57

Notes:

Blank cells represent locations where the material is not present

(1) "mbtor" refers to metres below top of bedrock

(2) Hydraulic conductivity values of 1.0E-11 were assigned to test intervals where there was no measurable flow observed during the packer test



APPENDIX K

Overburden Stratigraphy

Project Component	Borehole ID	ORGANICS/PEAT	CLAY	CLAY/SILT	SILT/CLAY	SILT	SILT/SAND	SAND/SILT (A)	SAND	SAND/SILT (B)	SAND/GRAVEL	GRAVEL	GRAVEL/COBBLES	TILL	Total Overburden
		Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)
Open Pit	BH12-1														0.00
	BH12-BULK 1														0.00
	BH12-2										9.10			7.40	16.50
	BH12-3							4.60			1.90				6.50
	BH12-4							2.90			0.40				3.30
	BH12-6	0.10						0.50			0.90				1.50
	DH12-PO-01R	0.75					2.89	2.38							6.02
	DH12-PO-02R	3.43				1.07	1.26		0.90		1.13				7.79
	DH12-PO-03R	5.23				2.73				3.47				5.33	16.76
	DH12-PO-05R	0.75								3.60			0.90	4.75	10.00
	DH12-PO-06R	0.75					1.51								2.26
	DH12-PO-07R	1.92					1.17			1.48	1.81				6.38
	DH12-PO-08R	1.52							2.59						4.11
	DH12-PO-09												0.70	2.05	2.75
	DH12-PO-10								1.41						1.41
	DH12-PO-11	0.60							0.60					0.85	2.05
	DH12-PO-12	5.80					6.20	0.60						0.33	12.93
	DH12-PO-13													2.32	2.32
	DH12-PO-14	6.00					7.50							2.35	15.85
	DH12-PO-15	2.28					2.02			1.38					5.68
	DH12-PO-16	4.57		0.70						4.63				6.23	16.13
	DH12-PO-17									1.65	4.19				5.84
	DH12-PO-18	0.05									2.43				2.48
	DH12-PO-19	0.01									4.10				4.11
	DH12-PO-20									0.75	3.95			6.61	11.31
	DH12-PO-21	0.85							7.45	5.42	0.55			0.48	14.75
	DH12-PO-22	1.15							10.12	3.21				7.60	22.08
	DH13-PO-01	4.20					4.00	0.80		1.06					10.06
	DH13-PO-02	2.05					8.75			0.52			1.88		13.20
	DH13-PO-03	1.20						6.63	1.39				3.43	4.10	16.75
	DH13-PO-04	0.85						3.69		3.04			1.22		8.80
	DH13-PO-05	1.50						5.33		2.90			3.17		12.90
	DH13-PO-06	5.92				1.10		0.75					3.15		10.92
	DH13-PO-08														0.00
	DH13-PO-09	1.90								1.60					3.50
	DH13-PO-10	3.20		0.70						4.30					8.20
	DH13-PO-11	1.14													1.14
	DH13-PO-12	4.95					0.90		1.80			0.60			8.25
	DH13-PO-13	1.80					1.35			2.55					5.70
	DH13-PO-14	1.50					3.35			1.30					6.15
	DH13-PO-15	1.90						2.00	1.20	2.85					7.95
	DH13-PO-16	1.50								0.70					2.20
DH13-PO-17	0.75											1.65		2.40	
DH13-PO-18	0.75								1.09					1.84	
DH13-PO-19	1.65								1.90			2.10		5.65	
DH13-PO-20	1.50								0.80					2.30	
DH13-PO-21	1.50					1.54						0.41		3.45	
DH13-PO-22	0.10								6.60					6.70	
DH13-PO-23	3.10								2.98			4.28		10.36	
DH13-RCP-01	7.33				0.60				2.00					9.93	
	Max	7.33	0.70	0.70	2.73	8.75	6.63	10.12	6.60	4.19	9.10	3.17	0.70	14.97	22.08
	Min	0.01	0.70	0.70	0.60	0.90	0.60	0.50	0.52	0.55	0.40	0.41	0.70	0.33	0.00
	Average	2.21	0.70	0.70	1.38	3.26	2.77	3.60	2.22	2.59	2.81	1.80	0.70	4.67	7.48

Notes:
 Blank cells represent locations where the material is not present
 "Thickness (m)" represents the thickness of the material layer in metres
 "Average" does not include thicknesses of zero where the material is not present

Project Component	Borehole ID	ORGANICS/PEAT	CLAY	CLAY/SILT	SILT/CLAY	SILT	SILT/SAND	SAND/SILT (A)	SAND	SAND/SILT (B)	SAND/GRAVEL	GRAVEL	GRAVEL/COBBLES	TILL	Total Overburden
		Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)
Mine Rock Area (MRA)	DH12-WD-01								0.85						0.85
	DH12-WD-03	1.50						3.00						0.61	5.11
	DH12-WD-05R								1.60						1.60
	DH12-WD-12	1.50				3.00	3.93								8.43
	DH12-WD-13	2.65					1.10		2.25				1.22		7.22
	DH12-WD-14	1.50						2.10						3.80	7.40
	DH12-WD-15	2.25				2.25			0.55					6.65	11.70
	DH12-WD-16	2.00						4.00						1.95	7.95
	DH12-WD-17	1.50						9.75						11.35	22.60
	DH12-WD-18	0.90					5.10		4.60	3.30					13.90
	DH12-WD-19	0.60													0.60
	DH12-WD-21	1.85						0.85							2.70
	DH12-WD-22	1.52						3.66						3.46	8.64
	DH12-WD-23	0.14						4.36						1.05	5.55
	DH12-WD-25	1.35											0.75	0.60	2.70
	DH12-WD-26	0.22				1.28								0.80	2.30
	DH12-WD-27	5.00				1.00								1.45	7.45
	DH13-WD-01	3.19							2.31						5.50
	DH13-WD-02a	4.99							0.81						5.80
	DH13-WD-02b														0.00
	DH13-WD-03a	2.28				2.26			1.54				4.12		10.20
	DH13-WD-03b														0.00
	DH13-WD-04a	1.50				3.94			1.04				0.55		7.03
	DH13-WD-04b														0.00
	DH13-WD-05	3.79	0.75						1.60						6.14
	DH13-WD-06a	0.87							6.71	4.58	2.94				15.10
	DH13-WD-06b														0.00
	DH13-WD-07a	1.67							3.62		4.13		1.78		11.20
	DH13-WD-07b														0.00
	DH13-WD-08	1.50							2.29		1.81				5.60
DH13-WD-09	0.75											0.39		1.14	
DH13-WD-10	1.50				4.47									5.97	
DH13-WD-11	0.20							0.40						0.60	
DH13-WD-12	9.60							3.80	0.90					14.30	
	Max	9.60	0.75			4.47	5.10	9.75	4.60	3.30	4.13	4.12	1.78	11.35	22.60
	Min	0.14	0.75			1.00	0.85	0.40	0.55	2.94	1.81	0.55	0.39	0.60	0.00
	Average	2.09	0.75			2.60	3.17	3.57	2.18	3.12	2.97	2.34	1.04	3.17	6.04
Watercourse Realignment	DH13-FD-01	5.10	0.70			2.70			0.20						8.70
	DH13-FD-02	3.05		1.50		1.25			0.70						6.50
	DH13-FD-05	4.58							9.14						13.72
	DH13-FD-06	3.50				1.30			1.75	1.95					8.50
	DH13-FD-08	1.64							0.82						2.46
	DH13-FD-09	0.18						1.05							1.23
	Max	5.10	0.70	1.50		2.70		1.05	9.14	1.95					13.72
	Min	0.18	0.70	1.50		1.25		1.05	0.20	1.95					1.23
	Average	3.01	0.70	1.50		1.75		1.05	2.52	1.95					6.85

Notes:
 Blank cells represent locations where the material is not present
 "Thickness (m)" represents the thickness of the material layer in metres
 "Average" does not include thicknesses of zero where the material is not present
 A represents upper SAND/SILT layer
 B represents lower SAND/SILT layer

Project Component	Borehole ID	ORGANICS/PEAT	CLAY	CLAY/SILT	SILT/CLAY	SILT	SILT/SAND	SAND/SILT (A)	SAND	SAND/SILT (B)	SAND/GRAVEL	GRAVEL	GRAVEL/COBBLES	TILL	Total Overburden
		Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)
Tailings Management Facility (TMF)	DH12-TMF-01	0.50				0.50	8.75							0.73	10.48
	DH12-TMF-02	1.13				1.67		0.75						0.26	3.81
	DH12-TMF-03	0.66												2.04	2.70
	DH12-TMF-04	0.75					3.80							0.55	5.10
	DH12-TMF-05	1.80												0.20	2.00
	DH12-TMF-06	1.00												2.65	3.65
	DH12-TMF-07	2.25												0.40	2.65
	DH12-TMF-08	0.08							0.95					0.99	2.02
	DH12-TMF-09	2.85							2.25					2.30	7.40
	DH12-TMF-10	0.91							0.40						1.31
	DH12-TMF-11	0.05							0.20					5.28	5.53
	DH12-TMF-12	1.50							6.25					10.16	17.91
	DH12-TMF-13	0.30						1.45						0.91	2.66
	DH12-TMF-14	2.80						1.55					0.15		4.50
	DH12-TMF-15	0.10						1.55						0.55	2.20
	DH12-TMF-16	0.25												0.50	0.75
	DH12-TMF-17	2.02							9.18					1.92	13.12
	DH12-TMF-18	4.42							2.28	2.02				1.64	10.36
	DH12-TMF-19	0.36												1.04	1.40
	DH12-TMF-20	0.45							7.05					5.33	12.83
	DH12-TMF-21	2.89												0.15	3.04
	DH12-TMF-22	0.08							1.82					2.63	4.53
	DH12-TMF-23	0.50							4.41					0.21	5.12
	DH12-TMF-24	0.60												3.61	4.21
	DH12-TMF-25	3.00						2.25	3.35					2.95	11.55
	DH12-TMF-26	2.10					1.50							14.10	17.70
	DH12-TMF-27	1.35												2.35	3.70
	DH12-TMF-28	0.75												3.75	4.50
	DH12-TMF-29	2.36						2.97		6.71				3.07	15.11
	DH12-TMF-30	0.40					1.85		1.88						4.13
	DH12-TMF-31	0.70							0.75				0.12	1.28	2.85
	DH12-TMF-32	0.10						1.40						1.57	3.07
	DH12-TMF-33	0.10					0.65							0.86	1.61
	Max	4.42				1.85	8.75	7.05	9.18	2.02			0.15	14.10	17.91
	Min	0.05				0.50	1.40	0.20	0.40	2.02			0.12	0.15	0.75
	Average	1.19				1.23	2.97	2.84	3.77	2.02			0.14	2.47	5.86

Notes:
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 A represents upper SAND/SILT layer
 B represents lower SAND/SILT layer

Project Component	Test Pit ID	ORGANICS/PEAT	CLAY	CLAY/SILT	SILT/CLAY	SILT	SILT/SAND	SAND/SILT (A)	SAND	SAND/SILT (B)	SAND/GRAVEL	GRAVEL	GRAVEL/COBBLES	TILL	Total Overburden
		Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)
Open Pit	TP12-PO-01								0.20						0.20
	TP12-PO-02	0.10							1.10						1.20
	TP12-PO-03								2.50	1.50			2.00		6.00
	TP12-PO-04	0.50							0.85						1.35
	TP12-PO-05	0.50						6.50							7.00
	TP12-PO-06	0.10						4.90							5.00
	TP12-PO-07	0.30							3.00						3.30
	TP12-PO-08	0.80							4.70						5.50
	TP12-PO-09									3.00	3.50				6.50
	TP12-PO-10	1.00							3.00						4.00
	TP12-PO-11							0.50	1.00					1.25	2.75
	TP12-PO-12	0.10													0.10
	TP12-PO-13	0.20								1.80	5.20				7.20
	TP12-PO-14	0.10								1.20	5.70				7.00
	TP12-PO-15	0.50								1.30					1.80
	TP12-PO-16	0.50								0.10					0.60
	TP12-PO-17	0.10								0.15					0.25
	TP12-PO-18	0.20							0.80						1.00
	TP12-PO-19	0.50						1.50	2.00						4.00
	TP12-PO-20	1.00													2.20
	TP12-PO-21	4.00							0.30						4.30
	TP12-PO-22	2.00					2.00								4.00
	TP12-PO-24	0.50								1.15					1.65
	TP12-PO-25	0.10							1.40			5.00			6.50
	TP12-PO-26	0.25								0.75					1.00
	TP12-PO-27	1.30							2.40						3.70
	TP12-PO-28	0.30							2.00						2.30
	TP12-PO-29	3.80						1.20							5.00
	TP12-PO-30	0.25												4.25	4.50
	TP12-PO-31	0.50						0.70				2.25		1.00	4.45
	TP12-PO-32	1.00							3.50						4.50
	TP12-PO-34	1.70							3.30						5.00
	TP12-PO-35	0.50					2.50			0.50					3.50
	TP12-PO-36	0.10								1.60					1.70
	TP12-PO-37	0.30								4.30					4.60
	TP12-PO-38	0.70							3.30						4.00
	TP12-PO-39	0.10							0.20						0.90
	TP12-PO-40	0.50								0.95					1.45
	TP13-PO-01	0.30								1.50		0.40			2.20
	TP13-PO-02	1.20					0.30							1.20	2.70
	TP13-PO-03	0.50					0.90			0.40					1.80
TP13-PO-04	0.10								0.80					0.90	
TP13-PO-05	3.20					0.80					0.50			4.50	
TP13-PO-06	0.10								1.90					2.00	
TP13-PO-07	0.20								0.60					0.80	
TP13-PO-08	0.10										2.90			3.00	
TP13-PO-09	0.10					0.40			0.50					1.00	
TP13-PO-10	0.10								1.90					2.00	
TP13-PO-11	0.10								2.10					2.20	
TP13-PO-12	0.10					0.40		0.20	1.00					1.70	
TP13-PO-13	0.10								1.40					1.50	
TP13-PO-14	3.60													3.60	
TP13-PO-15	1.20								0.80	2.00				4.00	
TP13-PO-16	0.20					0.50			1.30					2.00	
TP13-PO-17	0.30													0.30	
TP13-PO-18	0.20								0.70					0.90	
TP13-PO-19	0.20					0.60			2.10					2.90	
TP13-PO-20	0.20							0.90						1.10	
TP13-PO-21	0.10								1.10		0.60			1.80	

Notes:
 Open pit stratigraphy data continues on Table 5. Refer to Table 5 for the Max/Min/Average values.
 Blank cells represent locations where the material is not present
 "Thickness (m)" represents the thickness of the material layer in metres
 A represents upper SAND/SILT layer
 B represents lower SAND/SILT layer

Project Component	Test Pit ID	ORGANICS/PEAT	CLAY	CLAY/SILT	SILT/CLAY	SILT	SILT/SAND	SAND/SILT (A)	SAND	SAND/SILT (B)	SAND/GRAVEL	GRAVEL	GRAVEL/COBBLES	TILL	Total Overburden
		Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)
Open Pit	TP13-PO-22	0.10							1.20						1.30
	TP13-PO-23	0.10							0.40						0.50
	TP13-PO-24	0.40						0.40							0.80
	TP13-PO-25	1.40							2.60						4.00
	TP13-PO-26	0.10													0.10
	TP13-PO-27	0.80									1.40				2.20
	TP13-PO-28	0.40					0.80			0.30					1.50
	TP13-PO-29	0.30					1.70			0.40					2.40
	TP13-PO-30	1.20					1.70								2.90
	TP13-PO-31	0.10								0.70					0.80
	TP13-PO-32	3.50					3.30								6.80
	TP13-PO-33	0.10								0.30	0.80				1.20
	TP13-PO-34	0.10								1.70					1.80
	TP13-PO-35	0.40								1.60					2.00
	TP13-PO-36	0.10					1.40					0.60			2.10
	TP13-PO-37	1.80						4.60							6.40
	TP13-PO-38	0.20								1.70		0.30			2.20
	TP13-PO-39	0.40								2.90					3.30
	TP13-PO-40	0.10								2.60					2.70
	TP13-PO-43	0.10								5.70					5.80
	TP13-RCP-01	1.00					0.30			0.90					2.20
	TP13-RCP-02	0.10								0.30					0.40
	TP13-RCP-03	0.15								0.75					0.90
	TP13-RCP-04	0.30								1.60					1.90
	TP1	0.10													0.10
	TP2	0.60								3.40					4.00
	TP4									1.70					1.70
	TP8	0.20					2.50			1.80					4.50
	TP9	0.50													0.50
	TP15	0.10					0.20			4.20					4.50
	TP16	0.10						0.40		2.50		1.00			4.00
	TP17	0.20						0.30				2.50			3.00
	TP20													0.10	0.10
	TP21								0.30						0.30
	TP22						0.30								0.30
	TP35	0.10							0.40	3.50					4.00
	TP59	0.10					0.20								0.30
	TP60	0.10						0.20	0.20						0.50
	TP83	0.30					0.30		1.00						1.60
	TP86	0.10													0.10
TP88	0.30								2.70					3.00	
TP90	2.20								1.30	0.70				4.20	
TP93	0.10						0.40	1.70						2.20	
TP101	0.10							0.30	3.80					4.20	
TP102									0.60					0.60	
TP103	0.10								0.30	3.10				3.50	
TP104	0.30								2.10					2.40	
TP105						0.40								0.40	
TP106	0.10							1.20						1.30	
TP107	0.20						0.30		1.40					1.90	
TP109	0.10								1.00					1.10	
TP110	0.10						0.30	1.20						1.60	
Max		4.00				3.30	6.50	4.70	5.70	5.70	5.00		2.00	4.25	7.20
Min		0.10				0.20	0.20	0.20	0.10	0.70	0.30		1.20	0.10	0.10
Average		0.55				1.02	1.62	1.47	1.60	2.77	1.59		1.48	1.89	2.58

Notes:
 Max/Min/Average values presented include open pit stratigraphy data from Table 4
 Blank cells represent locations where the material is not present
 (1) "Thickness (m)" represents the thickness of the material layer in metres
 (2) "Average" does not include thicknesses of zero where the material is not present
 A represents upper SAND/SILT layer
 B represents lower SAND/SILT layer

Project Component	Test Pit ID	ORGANICS/PEAT	CLAY	CLAY/SILT	SILT/CLAY	SILT	SILT/SAND	SAND/SILT (A)	SAND	SAND/SILT (B)	SAND/GRAVEL	GRAVEL	GRAVEL/COBBLES	TILL	Total Overburden	
		Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)
Processing Plant	TP12-PS-01	1.50												1.50	3.00	
	TP12-PS-02	2.00					2.00		1.50						5.50	
	TP12-PS-03	1.50												2.50	4.00	
	TP12-PS-04	4.00							0.50						4.50	
	TP12-PS-05	0.50							2.50						3.00	
	TP12-PS-06	2.00					0.50								2.50	
	TP12-PS-07	1.00												0.50	1.50	
	TP12-PS-08	0.50					0.35		0.90						1.75	
	TP12-PS-09	0.10							0.60						0.50	1.20
	TP12-PS-10	0.20						0.50							0.50	1.20
	TP12-PS-11								0.10							0.10
	TP12-PS-12	1.00				0.50										1.50
	TP12-PS-13	4.00												1.00	5.00	
	TP12-PS-14	0.50							1.15							1.65
	TP12-PS-15	0.15														0.15
	TP12-PS-16	4.50														4.50
	TP12-PS-17	3.00				1.50										4.50
Max	4.50					1.50	2.00	0.50	2.50					2.50	5.50	
Min	0.10					0.50	0.35	0.50	0.10					0.50	0.10	
Average	1.65					1.00	0.95	0.50	1.04					1.08	2.68	
Mine Rock Area (MRA)	TP12-WD-01	1.60					2.90		1.60						6.10	
	TP12-WD-02	0.20							2.80						3.00	
	TP12-WD-03	0.20												3.70	3.90	
	TP12-WD-04	1.50												1.50	3.00	
	TP12-WD-05	2.50													2.50	
	TP12-WD-07	3.30							0.40						3.70	
	TP12-WD-08	0.20				0.70			0.40						1.30	
	TP12-WD-09	1.80						0.90	1.80						4.50	
	TP12-WD-10											0.70		2.00	2.70	
	TP12-WD-11	0.80				1.40								1.00	3.20	
	TP12-WD-12	1.30						1.70	1.30						4.30	
	TP12-WD-13	1.30						3.20	0.50						5.00	
	TP12-WD-14	0.10							0.60						0.70	
	TP12-WD-15	0.50							0.55						1.05	
	TP12-WD-16	1.80						4.00							5.80	
	TP12-WD-17					0.50				5.50					6.00	
	TP13-WD-01	0.10							0.30	1.00					1.40	
	TP13-WD-01A	0.10							0.20	1.50					1.80	
	TP13-WD-02	0.20								0.80	0.50				1.50	
	TP13-WD-03	0.20							0.40	3.50					4.10	
	TP13-WD-04	0.10								1.10					1.20	
	TP13-WD-05	0.10					0.50			0.90					1.50	
	TP13-WD-06	0.20					0.30			1.10					1.60	
	TP13-WD-07	0.20								2.00					2.20	
	TP13-WD-08	0.40					0.90			2.00					3.30	
	TP13-WD-09	0.20								0.60	1.60				2.40	
	TP13-WD-10	0.30					0.70			1.20					2.20	
	TP13-WD-11	0.20					0.60			1.80					2.60	
	TP13-WD-12	0.20					2.30	0.20							2.70	
	TP13-WD-13											1.70			1.70	
	TP13-WD-14	0.60								2.40					3.00	
TP13-WD-15	0.30								0.70		2.00			3.00		
TP13-WD-16	0.20								3.20		3.60			7.00		
TP13-WD-17	0.50								3.50					4.75		
TP13-WD-18	0.75					0.75					4.60			6.20		
TP13-WD-19	3.20								0.85					3.20		
Max	3.30					2.30	4.00	0.90	5.50	1.60	4.60		0.70	3.70	7.00	
Min	0.10					0.30	0.20	0.20	0.40	1.60	0.50		0.70	1.00	0.70	
Average	0.76					0.87	2.40	0.49	1.75	1.60	2.48		0.70	2.05	3.17	

Notes:
 Blank cells represent locations where the material is not present
 "Thickness (m)" represents the thickness of the material layer in metres
 "Average" does not include thicknesses of zero where the material is not present
 A represents upper SAND/SILT layer
 B represents lower SAND/SILT layer

Project Component	Test Pit ID	ORGANICS/PEAT	CLAY	CLAY/SILT	SILT/CLAY	SILT	SILT/SAND	SAND/SILT (A)	SAND	SAND/SILT (B)	SAND/GRAVEL	GRAVEL	GRAVEL/COBBLES	TILL	Total Overburden	
		Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)
Tailings Management Facility (TMF)	TP12-TMF-01	0.50						1.50		4.00					6.00	
	TP12-TMF-02	0.25						2.25						2.50	5.00	
	TP12-TMF-03								4.00						4.00	
	TP12-TMF-04	1.20												2.80	4.00	
	TP12-TMF-05	0.10							2.40						2.50	
	TP12-TMF-06	1.00						2.00		3.50					6.50	
	TP12-TMF-07	0.10							0.60						0.70	
	TP12-TMF-09	0.20						2.80							1.20	4.20
	TP12-TMF-10												1.50	0.60	2.10	
	TP12-TMF-11	0.80					0.70		0.40						1.90	
	TP12-TMF-12	0.25					1.25							1.50	3.00	
	TP12-TMF-13	0.50							1.35						1.85	
	TP12-TMF-14	0.50							1.15						1.65	
	TP12-TMF-15	0.10							1.80						1.90	
	TP12-TMF-16	0.50													0.50	
	TP12-TMF-18										2.00				2.00	
	TP12-TMF-20	1.50						1.80							3.30	
	TP12-TMF-22	0.20							1.70						1.90	
	TP12-TMF-23										1.60				1.60	
	TP12-TMF-24												2.20	2.00	4.20	
	TP12-TMF-25	1.60				1.30		0.60							3.50	
	TP12-TMF-26	2.10												1.90	4.00	
	TP12-TMF-27	0.40												1.40	1.80	
	TP12-TMF-28	0.10							1.10						1.20	
	TP12-TMF-29										1.00			2.00	3.00	
	TP12-TMF-30	0.10											0.80	0.60	1.50	
	TP12-TMF-31	0.60					0.50	0.90						2.00	4.00	
	TP12-TMF-32	1.60							2.40						4.00	
	TP12-TMF-33	0.50							1.30						1.80	
	TP12-TMF-34	0.20							1.60						1.80	
	TP12-TMF-35	0.50							0.85						1.35	
	TP12-TMF-36	0.50						0.65	1.50						2.65	
	TP12-TMF-37							1.00			3.00				4.00	
	TP12-TMF-38							4.00	2.30						6.30	
	TP12-TMF-39	0.50						0.85							1.35	
	TP12-TMF-40	0.10						1.90							2.00	
	TP12-TMF-41	0.30						1.30							1.60	
	TP12-TMF-42							2.10							2.10	
	TP12-TMF-43	2.00						2.00							4.00	
	TP12-TMF-44	0.50						2.95							3.45	
	TP12-TMF-45	0.20						0.70							0.90	
	TP12-TMF-46	0.20						4.50							4.70	
	TP12-TMF-48	0.20						0.60	2.10						2.90	
	TP12-TMF-49	0.20							1.40						1.60	
	TP12-TMF-50	4.30												0.70	5.00	
	TP12-TMF-51	1.00							1.00						2.00	
	TP12-TMF-53	0.10							1.00						1.10	
	TP12-TMF-54	0.10						0.90							1.00	
	TP12-TMF-55	0.15						0.95							1.10	
	TP12-TMF-56	1.40						3.10							4.50	
	TP12-TMF-57	1.90												3.10	5.00	
	TP12-TMF-58	1.60				1.60								0.60	3.80	
	TP12-TMF-59					1.30			1.00						2.30	
	TP12-TMF-60	1.00							4.00						5.00	
	TP12-TMF-61	0.10					2.70							1.20	4.00	
	TP12-TMF-62	0.20						1.40							1.60	
	TP12-TMF-63	0.20						1.40							1.60	
	Max	4.30				1.30	2.70	4.50	4.00	4.00	3.00		2.20	3.10	6.50	
	Min	0.10				1.30	0.50	0.60	0.40	3.50	1.00		0.80	0.60	0.50	
	Average	0.68				1.30	1.34	1.73	1.69	3.75	1.90		1.50	1.61	2.85	

Notes:
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"Average" does not include thicknesses of zero where the material is not present
A represents upper SAND/SILT layer
B represents lower SAND/SILT layer

Project Component	Test Pit ID	ORGANICS/PEAT	CLAY	CLAY/SILT	SILT/CLAY	SILT	SILT/SAND	SAND/SILT (A)	SAND	SAND/SILT (B)	SAND/GRAVEL	GRAVEL	GRAVEL/COBBLES	TILL	Total Overburden	
		Thickness (m) ⁽¹⁾	Thickness (m) ⁽¹⁾	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)	Thickness (m)
Watercourse Realignment	TP13-FD-01	1.20							0.80			1.20			3.20	
	TP13-FD-02	1.20				1.80									3.00	
	TP13-FD-03	1.00						0.50		2.50					4.00	
	TP13-FD-04	4.20				0.10									4.30	
	TP13-FD-05	0.50						2.00	0.70						3.20	
	TP13-FD-07	1.50						2.30							3.80	
	TP13-FD-08	2.60					1.60								4.20	
	TP13-FD-09	0.20							1.00						1.20	
	TP13-FD-11	0.20													0.20	
	TP13-FD-12	1.00					1.00								2.00	
	TP13-FD-16	0.90							0.40	0.80					2.10	
	TP13-FD-17	0.50							1.00						1.50	
	TP13-FD-18	1.00							3.50						4.50	
	TP13-FD-19	1.00							0.80						1.80	
	TP13-FD-20	0.50							0.10	1.70	0.50				2.80	
	TP13-FD-21	0.20					0.60								0.80	
	TP13-FD-22	1.10							1.10						2.20	
	Max		4.20				1.80	1.60	2.30	3.50	2.50	0.50	1.20			4.50
	Min		0.20				0.10	1.00	0.50	0.10	0.80	0.50	1.20			0.20
	Average ⁽²⁾		1.11				0.83	1.30	1.60	1.04	1.67	0.50	1.20			2.64
	Aggregate Borrow Pits	TP12-BP-01													3.00	3.00
		TP12-BP-02	0.40						1.60							2.00
TP12-BP-03		1.00						0.50	0.90						2.40	
TP12-BP-04		1.70											0.30		2.00	
TP12-BP-05		1.00				4.00		1.50							6.50	
TP12-BP-06		2.50													2.50	
TP12-BP-07		3.70				1.80									5.50	
TP12-BP-08		0.20						2.40							2.60	
TP12-BP-09		2.10				1.40		0.50							4.00	
TP12-BP-11									0.40	0.30				1.30	2.00	
TP12-BP-12		0.30						0.60						1.00	1.90	
TP12-BP-13		0.30							0.40	0.60				2.40	3.70	
TP12-BP-14		0.20						0.50	1.80					0.50	3.00	
TP12-BP-15		0.50						1.45						2.80	4.75	
TP12-BP-16		0.15				1.25								3.60	5.00	
TP12-BP-17		0.10						7.40							7.50	
TP12-BP-18									4.00						4.00	
TP12-BP-19		0.20						0.80	1.00						2.00	
TP12-BP-20		0.50							3.95						4.45	
TP12-BP-21		1.00				1.50			1.50						4.00	
TP12-BP-23	1.50							4.80						6.30		
TP13-BP-01	0.10							0.50		0.90				1.50		
Max		3.70				1.50	4.00	7.40	4.80	0.60	0.90			3.60	7.50	
Min		0.10				1.50	1.25	0.50	0.40	0.30	0.90			0.30	1.50	
Average ⁽²⁾		0.92				1.50	2.11	1.75	1.89	0.45	0.90			1.86	3.66	

Notes:
 Blank cells represent locations where the material is not present
 "Thickness (m)" represents the thickness of the material layer in metres
 "Average" does not include thicknesses of zero where the material is not present
 A represents upper SAND/SILT layer
 B represents lower SAND/SILT layer



APPENDIX L

Groundwater Level Data

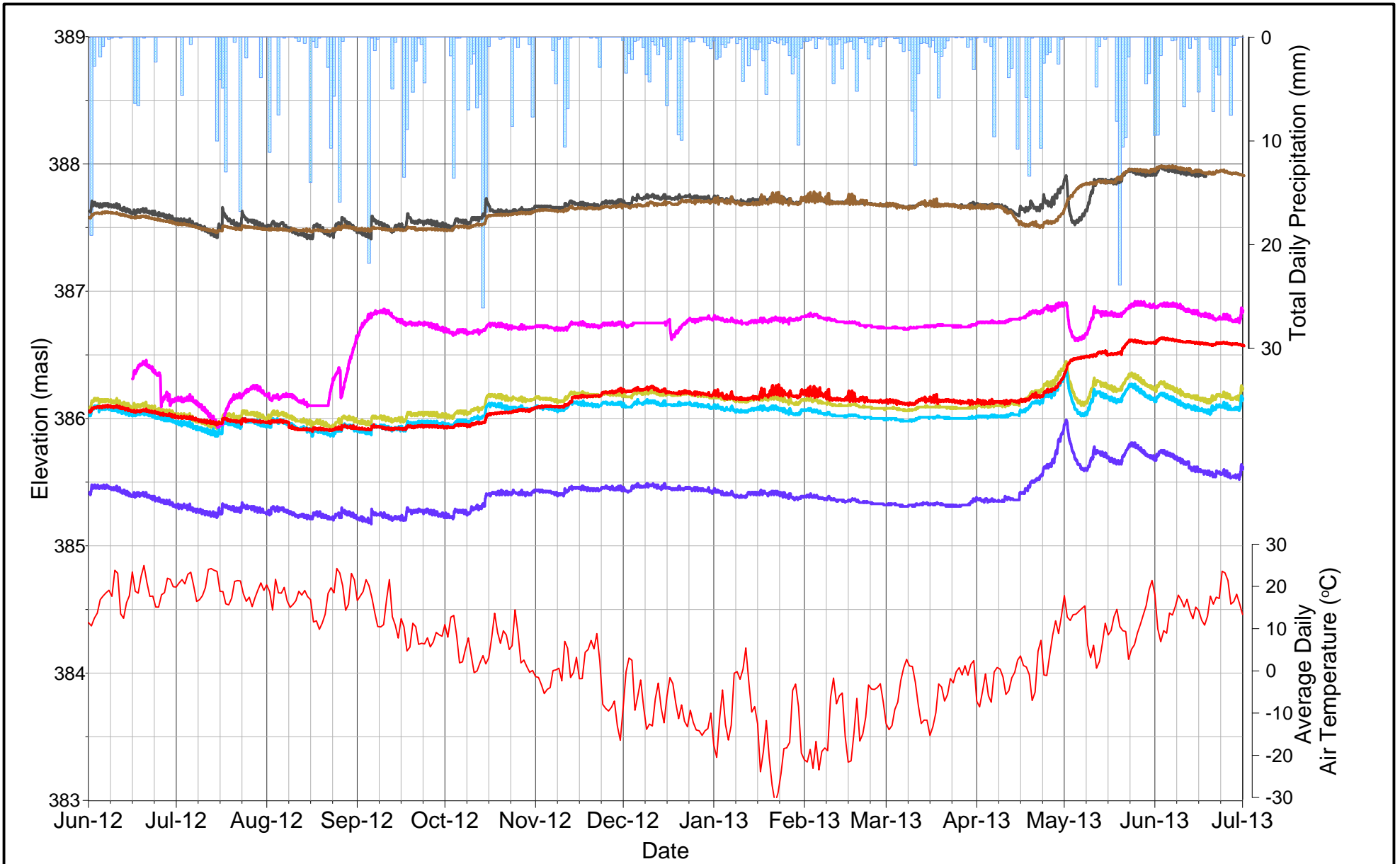
Monitoring Well ID	Monitoring Well Type	Ground Surface Elevation (masl) ^{(1) (2)}	Well Pipe Stick-Up Height (m)	Top of Pipe Elevation (masl) ⁽³⁾	Spring 2012																	
					Date	Depth to Groundwater		Groundwater Elevation (masl) ⁽²⁾	Date	Depth to Groundwater		Groundwater Elevation (masl) ⁽²⁾	Date	Depth to Groundwater		Groundwater Elevation (masl) ⁽²⁾						
						(mbtp) ⁽³⁾	(mbgs) ^{(4) (5)}			(mbtp) ⁽³⁾	(mbgs) ^{(4) (5)}			(mbtp) ⁽³⁾	(mbgs) ^{(4) (5)}							
DH12-PO-01Ra	Nested	381.4	0.72	382.10		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-01Rb			0.85	382.23		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-05Ra	Nested	381.22	0.78	382.00	May 17, 2012	1.02	0.24	380.98	May 17, 2012	1.08	0.30	380.92		n/a ⁽⁶⁾								
DH12-PO-05Rb			0.95	382.17	May 17, 2012	0.76	-0.19	381.42	May 17, 2012	0.74	-0.21	381.43		n/a ⁽⁶⁾								
DH12-PO-08Ra	Nested	385.50	0.79	386.24		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-08Rb		386.28	0.83	386.28		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-10	Single	386.94	0.84	387.78	May 15, 2012	1.28	0.44	386.50	May 31, 2012	2.59	1.75	385.19	June 6, 2012	1.50	0.66							386.28
DH12-PO-13	Single	381.71	0.87	382.58	May 17, 2012	0.89	0.01	381.70	May 17, 2012	0.89	0.01	381.70		n/a ⁽⁶⁾								
DH12-PO-14b	Single	380.44	1.08	382.27	May 16, 2012	0.97	-0.11	381.30	May 16, 2012	1.03	-0.05	381.25	May 28, 2012	1.07	-0.01							381.20
DH12-PO-16a	Nested	385.60	0.79	386.40		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-16b		386.39	0.78	386.39		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-20a	Nested	383.05	0.76	383.81		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-20b			0.87	383.92		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-21a			0.86	382.03		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-21b	Nested	381.17	0.80	381.97		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-21c			0.88	382.05		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-PO-22	Single	381.33	0.92	382.25		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
BH12-1	Single	393.23	0.90	394.13		n/a ⁽⁶⁾			May 14, 2012	1.80	0.90	392.33	June 27, 2012	2.05	1.15							392.08
BH12-BULK 1	Single	393.82	0.90	394.72		n/a ⁽⁶⁾			May 14, 2012	0.66	-0.24	394.06	June 27, 2012	2.13	1.23							392.59
BH12-2A	Nested	384.10	0.84	384.89		n/a ⁽⁶⁾			May 14, 2012	1.87	1.03	383.02	June 27, 2012	2.92	2.08							381.97
BH12-2B			0.85	384.9		n/a ⁽⁶⁾			May 14, 2012	1.32	0.47	383.58	June 27, 2012	2.42	1.57							382.48
BH12-3A	Nested	384.80	0.84	385.65		n/a ⁽⁶⁾			May 14, 2012	1.94	1.10	383.71	June 27, 2012	1.44	0.60							384.21
BH12-3B			0.88	385.69		n/a ⁽⁶⁾			May 14, 2012	2.02	1.14	383.67	June 27, 2012	1.80	0.92							383.89
BH12-4	Single	381.70	0.93	382.6		n/a ⁽⁶⁾				n/a ⁽⁶⁾			June 27, 2012	1.21	0.27							381.40
BH12-6 ⁽⁶⁾	Single	385.00	0.90	385.91		n/a ⁽⁶⁾			May 15, 2012	2.09	1.19	383.82	June 27, 2012	3.58	2.68							382.33
DH12-WD-01	Single	382.71	0.90	383.61	May 18, 2012	1.35	0.44	382.27	May 31, 2012	1.38	0.48	382.23	June 7, 2012	1.33	0.43							382.28
DH12-WD-05R	Single	393.80	0.77	394.57		n/a ⁽⁶⁾				n/a ⁽⁶⁾				n/a ⁽⁶⁾								
DH12-WD-12a	Nested	386.05	1.05	387.10	May 17, 2012	1.01	-0.04	386.09	May 17, 2012	1.02	-0.04	386.09	June 4, 2012	1.03	-0.02							386.07
DH12-WD-12b			1.07	387.12	May 17, 2012	1.07	0.00	386.05	June 1, 2012	1.13	0.06	386.00	June 4, 2012	1.08	0.01							386.04
DH12-WD-14	Single	386.66	0.77	387.43	May 15, 2012	1.88	1.11	385.55	June 1, 2012	2.08	1.31	385.35	June 4, 2012	1.96	1.19							385.47
DH12-WD-17a	Nested	381.99	0.95	382.94	May 16, 2012	0.85	-0.10	382.09	June 1, 2012	1.79	0.84	381.15	June 5, 2012	1.79	0.84							381.15
DH12-WD-17b			0.89	382.85	May 16, 2012	1.13	0.24	381.72	June 1, 2012	1.19	0.30	381.66		n/a ⁽⁶⁾								
DH12-WD-19	Single	394.07	1.01	395.08	May 15, 2012	0.53	-0.48	394.55	May 18, 2012	1.22	0.21	393.86	June 4, 2012	0.64	-0.37							394.44
DH12-WD-23	Single	379.64	0.81	381.20	May 15, 2012	0.76	-0.05	380.44	June 1, 2012	0.83	0.02	380.37	June 5, 2012	0.76	-0.05							380.44
DH12-WD-25a	Nested	380.9	0.83	381.74	May 17, 2012	1.08	0.25	380.67	May 17, 2012	1.08	0.25	380.67	June 13, 2012	1.15	0.32							380.59
DH12-WD-25b			0.85	381.73	May 17, 2012	1.04	0.19	380.69	May 17, 2012	1.07	0.21	380.67	June 13, 2012	1.12	0.27							380.61
DH12-WD-26	Single	387.98	1.05	389.03		n/a ⁽⁶⁾				n/a ⁽⁶⁾			June 1, 2012	1.40	0.35							387.63
DH12-WD-27a	Nested	388.86	0.95	389.81	May 15, 2012	1.03	0.08	388.78	May 18, 2012	1.06	0.11	388.75	June 4, 2012	1.03	0.08							388.79
DH12-WD-27b			0.94	389.80	May 15, 2012	1.04	0.10	388.76	May 23, 2012	1.06	0.12	388.74		n/a ⁽⁶⁾								
DH12-TMF-05a	Nested	372.9	0.89	373.78	May 23, 2012	0.88	-0.01	372.90	May 31, 2012	0.88	-0.01	372.90	June 6, 2012	2.89	2.00							370.89
DH12-TMF-05b			1.00	373.90	May 23, 2012	1.37	0.37	372.53	May 31, 2012	1.37	0.37	372.53	June 6, 2012	1.36	0.36							372.54
DH12-TMF-11	Single	373.60	0.86	374.96	May 23, 2012	0.75	-0.11	374.21	May 30, 2012	0.77	-0.09	374.19		n/a ⁽⁶⁾								
DH12-TMF-12	Single	372.72	0.82	373.54	May 23, 2012	0.98	0.16	372.56	May 30, 2012	1.01	0.19	372.53	June 13, 2012	1.05	0.23							372.49
DH12-TMF-16	Single	388.84	0.93	389.77	May 23, 2012	1.23	0.30	388.54	May 30, 2012	1.25	0.32	388.52	June 6, 2012	1.19	0.26							388.58
DH12-TMF-20a	Nested	373.8	0.76	374.54	May 30, 2012	1.83	1.07	372.71	May 30, 2012	1.83	1.07	372.71		n/a ⁽⁶⁾								
DH12-TMF-20b			0.84	374.47	May 30, 2012	1.74	0.90	372.73	May 30, 2012	1.74	0.90	372.73		n/a ⁽⁶⁾								
DH12-TMF-23a	Nested	372.5	0.89	373.37	May 30, 2012	1.14	0.25	372.23	May 30, 2012	1.15	0.26	372.22	June 5, 2012	1.10	0.21							372.27
DH12-TMF-23b			0.98	373.48	May 30, 2012	1.81	0.83	371.67	May 30, 2012	1.82	0.84	371.66	June 5, 2012	1.71	0.73							371.77
DH12-TMF-24a	Nested	370.1	0.94	371.07	May 30, 2012	1.18	0.24	369.89	May 30, 2012	1.19	0.25	369.88	June 6, 2012	1.11	0.17							369.96
DH12-TMF-24b			0.99	371.09	May 30, 2012	1.22	0.23	369.87	May 30, 2012	1.24	0.25	369.85	June 6, 2012	1.18	0.19							369.91
DH12-TMF-25a	Nested	372.1	0.78	372.86	May 30, 2012	0.50	-0.28	372.36	May 31, 2012	0.51	-0.27	372.35		n/a ⁽⁶⁾								
DH12-TMF-25b			0.91	372.94	May 30, 2012	0.67	-0.24	372.27	May 31, 2012	0.67	-0.24	372.27		n/a ⁽⁶⁾								
DH12-TMF-26	Single	383.03	0.84	383.87	May 23, 2012	0.87	0.03	383.00	May 30, 2012	0.86	0.01	383.02		n/a ⁽⁶⁾								
DH12-TMF-27a	Nested	372.8	0.67	373.46	May 23, 2012	0.80	0.13	372.67	May 17, 2012	0.80	0.13	372.67	May 29, 2012	0.87	0.20							372.59
DH12-TMF-27b			0.87	373.59	May 23, 2012	0.93	0.06	372.66	May 17, 2012	0.93	0.06	372.66	May 29, 2012	4.05	3.18							369.54
DH12-TMF-28	Single	387.40	0.90	388.30	May 23, 2012	1.49	0.59	386.81	May 30, 2012	1.70	0.80	386.60	June 13, 2012	1.67	0.77							386.63
DH12-TMF-29	Single	374.17	0.79	374.96	May 31, 2012	1.05	0.26	373.92	May 31, 2012	1.05	0.26	373.92		n/a ⁽⁶⁾								
DH12-TMF-30	Single	383.48	0.86	384.34	May 31, 2012	5.27	4.41	379.07	May 31, 2012	5.27	4.41	379.07		n/a ⁽⁶⁾								
DH12-TMF-31a	Nested	379.8	1.02	380.80	May 23, 2012	1.44	0.42	379.36	May 30, 2012	1.49	0.47	379.31	June 5, 2012	1.48	0.46							379.32
DH12-TMF-31b			1.15	380.87	May 23, 2012	1.50	0.35	379.37	May 30, 2012	1.55	0.40	379.32	June 5, 2012	1.75	0.60							379.12
DH12-TMF-32a	Nested	385.7	1.03	386.71	May 23, 2012	1.09	0.06	385.62	May 23, 2012	1.10	0.07	385.61	May 28, 2012	5.39	4.36							381.32
DH12-TMF-32b			0.93	386.52	May 23, 2012	1.04	0.11	385.48	May 23, 2012	1.05	0.12	385.47	May 28, 2012	1.10	0.17							385.42
DH12-TMF-33	Single	396.40	0.94	397.31	May 23, 2012	2.39	1.45	394.92	May 30, 2012	1.59	0.65	395.72		n/a ⁽⁶⁾								
DH13-PO-01	Single	381.03	1.03</																			

Monitoring Well ID	Monitoring Well Type	Ground Surface Elevation (masl) ⁽¹⁾⁽²⁾	Well Pipe Stick-Up Height (m)	Top of Pipe Elevation (masl) ⁽²⁾	Spring 2013			Summer 2013								
					Date	Depth to Groundwater		Groundwater Elevation (masl) ⁽²⁾	Date	Depth to Groundwater		Groundwater Elevation (masl) ⁽²⁾	Date	Depth to Groundwater		Groundwater Elevation (masl) ⁽²⁾
						(mbtp) ⁽³⁾	(mbsg) ⁽⁴⁾⁽⁵⁾			(mbtp) ⁽³⁾	(mbsg) ⁽⁴⁾⁽⁵⁾			(mbtp) ⁽³⁾	(mbsg) ⁽⁴⁾⁽⁵⁾	
DH12-PO-01Ra	Nested	381.4	0.72	382.10		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-01Rb			0.85	382.23		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-05Ra	Nested	381.22	0.78	382.00	June 19, 2013	1.36	0.58	380.64	August 13, 2013	1.41	0.63	380.60	September 6, 2013	1.40	0.62	380.60
DH12-PO-05Rb			0.95	382.17	June 19, 2013	1.05	0.10	381.12	August 13, 2013	1.08	0.13	381.09	September 6, 2013	1.09	0.14	380.33
DH12-PO-08Ra	Nested	385.50	0.79	386.24		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-08Rb		386.28	0.83	386.28		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-10	Single	386.94	0.84	387.78		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-13	Single	381.71	0.87	382.58		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-14b	Single	380.44	1.08	382.27		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-16a	Nested	385.60	0.79	386.40		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-16b		386.39	0.78	386.39		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-20a	Nested	383.05	0.76	383.81		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-20b			0.87	383.92		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-21a			0.86	382.03		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-21b	Nested	381.17	0.80	381.97		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-21c			0.88	382.05		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-PO-22	Single	381.33	0.92	382.25		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
BH12-1	Single	393.23	0.90	394.13		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
BH12-BULK 1	Single	393.82	0.90	394.72	June 19, 2013	2.05	1.15	392.67	August 13, 2013	2.06	1.16	392.66			n/a ⁽⁸⁾	
BH12-2A	Nested	384.10	0.84	384.89		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
BH12-2B			0.85	384.9		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
BH12-3A	Nested	384.80	0.84	385.65		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
BH12-3B			0.88	385.69		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
BH12-4	Single	381.70	0.93	382.6		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
BH12-6 ⁽⁶⁾	Single	385.00	0.90	385.91		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-WD-01	Single	382.71	0.90	383.61	June 15, 2013	1.34	0.44	382.27	August 16, 2013	1.36	0.46	382.25	September 5, 2013	1.34	0.44	382.27
DH12-WD-05R	Single	393.80	0.77	394.57		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-WD-12a	Nested	386.05	1.05	387.10	June 20, 2013	1.00	-0.05	386.10	August 13, 2013	1.04	-0.01	386.06	September 9, 2013	1.00	-0.05	386.10
DH12-WD-12b			1.07	387.12	June 20, 2013	1.06	-0.01	386.06	August 13, 2013	1.09	0.02	386.03	September 9, 2013	1.05	-0.02	386.07
DH12-WD-14	Single	386.66	0.77	387.43	August 12, 2013	1.77	1.00	385.66	August 15, 2013	1.95	1.18	385.48	September 6, 2013	1.97	1.20	385.46
DH12-WD-17a	Nested	381.99	0.95	382.94	June 17, 2013	1.16	0.21	381.78	August 14, 2013	1.40	0.45	381.54	September 5, 2013	1.36	0.41	381.58
DH12-WD-17b			0.89	382.85	June 17, 2013	1.14	0.25	381.71	August 12, 2013	1.28	0.39	381.57	September 5, 2013	1.19	0.30	381.66
DH12-WD-19	Single	394.07	1.01	395.08		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-WD-23	Single	379.64	0.81	381.20	June 18, 2013	0.77	-0.04	380.43	August 14, 2013	0.83	0.02	380.37	September 6, 2013	0.83	0.01	380.38
DH12-WD-25a	Nested	380.9	0.83	381.74	June 19, 2013	1.04	0.21	380.70	August 13, 2013	1.08	0.25	380.66			n/a ⁽⁸⁾	
DH12-WD-25b			0.85	381.73	June 19, 2013	1.00	0.15	380.73	August 13, 2013	1.06	0.21	380.67			n/a ⁽⁸⁾	
DH12-WD-26	Single	387.98	1.05	389.03	June 18, 2013	1.12	0.07	387.91	August 15, 2013	1.20	0.15	387.83	September 5, 2013	1.14	0.09	387.89
DH12-WD-27a	Nested	388.86	0.95	389.81	June 11, 2013	1.07	0.12	388.74	August 12, 2013	1.27	0.32	388.55			n/a ⁽⁸⁾	
DH12-WD-27b			0.94	389.80	June 11, 2013	1.05	0.11	388.75	August 12, 2013	1.22	0.28	388.58			n/a ⁽⁸⁾	
DH12-TMF-05a	Nested	372.9	0.89	373.78	June 11, 2013	0.89	0.00	372.89	August 14, 2013	1.75	0.86	372.03	September 6, 2013	1.99	1.10	371.79
DH12-TMF-05b			1.00	373.90	June 11, 2013	1.17	0.17	372.73	August 14, 2013	1.59	0.59	372.31	September 6, 2013	1.66	0.66	372.25
DH12-TMF-11	Single	373.60	0.86	374.96	June 15, 2013	1.11	0.25	373.85	August 12, 2013	0.79	-0.07	374.17			n/a ⁽⁸⁾	
DH12-TMF-12	Single	372.72	0.82	373.54	June 15, 2013	0.86	0.04	372.68	August 14, 2013	0.93	0.11	372.61			n/a ⁽⁸⁾	
DH12-TMF-16	Single	388.84	0.93	389.77	June 14, 2013	1.19	0.26	388.58	August 12, 2013	1.25	0.32	388.52			n/a ⁽⁸⁾	
DH12-TMF-20a	Nested	373.8	0.76	374.54		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-TMF-20b			0.84	374.47		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-TMF-23a	Nested	372.5	0.89	373.37		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-TMF-23b			0.98	373.48		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-TMF-24a	Nested	370.1	0.94	371.07		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-TMF-24b			0.99	371.09		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-TMF-25a	Nested	372.1	0.78	372.86		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-TMF-25b			0.91	372.94		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-TMF-26	Single	383.03	0.84	383.87	June 14, 2013	0.74	-0.11	383.14	August 12, 2013	0.91	0.07	382.96			n/a ⁽⁸⁾	
DH12-TMF-27a	Nested	372.8	0.67	373.46	June 11, 2013	0.54	-0.13	372.92	August 15, 2013	0.87	0.20	372.59			n/a ⁽⁸⁾	
DH12-TMF-27b			0.87	373.59	June 11, 2013	0.69	-0.18	372.90	August 15, 2013	1.01	0.14	372.58			n/a ⁽⁸⁾	
DH12-TMF-28	Single	387.40	0.90	388.30	June 15, 2013	1.48	0.58	386.82	August 18, 2013	1.45	0.54	386.86			n/a ⁽⁸⁾	
DH12-TMF-29	Single	374.17	0.79	374.96		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-TMF-30	Single	383.48	0.86	384.34		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH12-TMF-31a	Nested	379.8	1.02	380.80	June 11, 2013	1.40	0.38	379.40	August 14, 2013	1.49	0.47	379.31	September 6, 2013	1.54	0.52	379.26
DH12-TMF-31b			1.15	380.87	June 11, 2013	1.43	0.28	379.44	August 14, 2013	1.57	0.42	379.30	September 6, 2013	1.65	0.50	379.22
DH12-TMF-32a	Nested	385.7	1.03	386.71	June 11, 2013	1.23	0.20	385.48	August 14, 2013	2.80	1.77	383.91			n/a ⁽⁸⁾	
DH12-TMF-32b			0.93	386.52	June 11, 2013	0.87	-0.06	385.65	August 14, 2013	1.10	0.17	385.42			n/a ⁽⁸⁾	
DH12-TMF-33	Single	396.40	0.94	397.31	June 15, 2013	1.85	0.91	395.47	August 12, 2013	3.02	2.08	394.29			n/a ⁽⁸⁾	
DH13-PO-01	Single	381.03	1.03	382.06	June 19, 2013	1.24	0.21	380.82	August 13, 2013	1.27	0.24	380.79			n/a ⁽⁸⁾	
DH13-PO-02	Single	381.59	1.21	382.80		n/a ⁽⁸⁾				n/a ⁽⁸⁾					n/a ⁽⁸⁾	
DH13-PO-04	Single	381.19	0.99	382.18	June 19, 2013	0.93	0.06	381.25	August 12, 2013	1.31	0.32	380.87			n/a ⁽⁸⁾	
DH13-PO-05A	Nested	381.24	1.23	382.47	June 19, 2013	1.44	0.21	381.03	August 12, 2013	1.17	-0.06	381.30	September 6, 2013	1.65	0.42	380.82
DH13-PO-05B		381.21	1.21	382.42	June 19, 2013	1.62	0.41	380.80	August 12, 2013	1.79	0.57	380.64	September 6, 2013	1.68	0.47	380.74
DH13-PO-08	Single	390.45	0.90	391.35	June 19, 2013	2.25	1.35	389.10	August 12, 2013	2.63	1.73	388.72			n/a ⁽⁸⁾	
DH13-PO-09A	Nested	386.55	1.09	387.64	June 19, 2013	0.84	-0.25	386.80	August 12, 2013	0.92	-0.17	386.72			n/a ⁽⁸⁾	
DH13-PO-09B		386.55	0.70	387.25	June 19, 2013	1.13	0.43	386.12	August 12, 2013	1.20	0.50	386.05			n/a ⁽⁸⁾	
DH13-PO-16A	Nested	385.97	0.94	386.91	June 19, 2013	1.08	0.14	385.83	August 12, 2013	1.21	0.27	385.70			n/a ⁽⁸⁾	
DH13-PO-16B		385.97	1.16	387.13	June 19, 2013	1.38	0.22	385.75	August 12, 2013	1.42	0.26	385.71			n/a ⁽⁸⁾	
DH13-PO-18	Single	387.51	0.90	388.41	June 19, 2013	1.39	0.49	387.02	August 13, 2013	1.69	0.78	386.73	September 5, 2013	1.37	0.47	387.04
DH13-PO-19	Single	397.59	0.90	398.49	June 19, 2013	0.93	0.03	397.56	August 13, 2013	1.02	0.12	397.47			n/a ⁽⁸⁾	
DH13-PO-20	Single	388.22	0.94	389.16	June 19, 2013	1.13	0.19	388.03	August 13, 2013	1.17	0.23	387.99			n/a ⁽⁸⁾	
DH13-PO-22	Single	382.01	1.04	383.05	June 19, 2013	1.03	-0.01	382.02	August 13, 2013	1.76	0.72	381.29			n/a ⁽⁸⁾	
DH13-PO-23	Single	385.77	1.23	387.00	June 19, 2013	1.30	0.07	385.70	August 13, 2013	1.39	0.16	385.61			n/a ⁽⁸⁾	
DH13-WD-02A	Nested	394.96	0.99	395.95	June 18, 2013	1.31	0.32	394.64	August 14, 2013	1.30	0.31	394.65			n/a ⁽⁸⁾	
DH13-WD-02B		395.06	0.90	395.96	June 18, 2013	1.27	0.37	394.69	August 14, 2013	1.28	0.38	394.68				



APPENDIX M

Groundwater Level Hydrographs



LEGEND

- DH12-PO-10
- DH12-WD-14
- Little Clam Lake (LCM)
- DH12-WD-12A
- DH12-WD-26
- Air Temperature
- DH12-WD-12B
- Clam Lake (CM)
- Precipitation



Groundwater Elevations at Monitoring Locations West of Open Pit and MRA

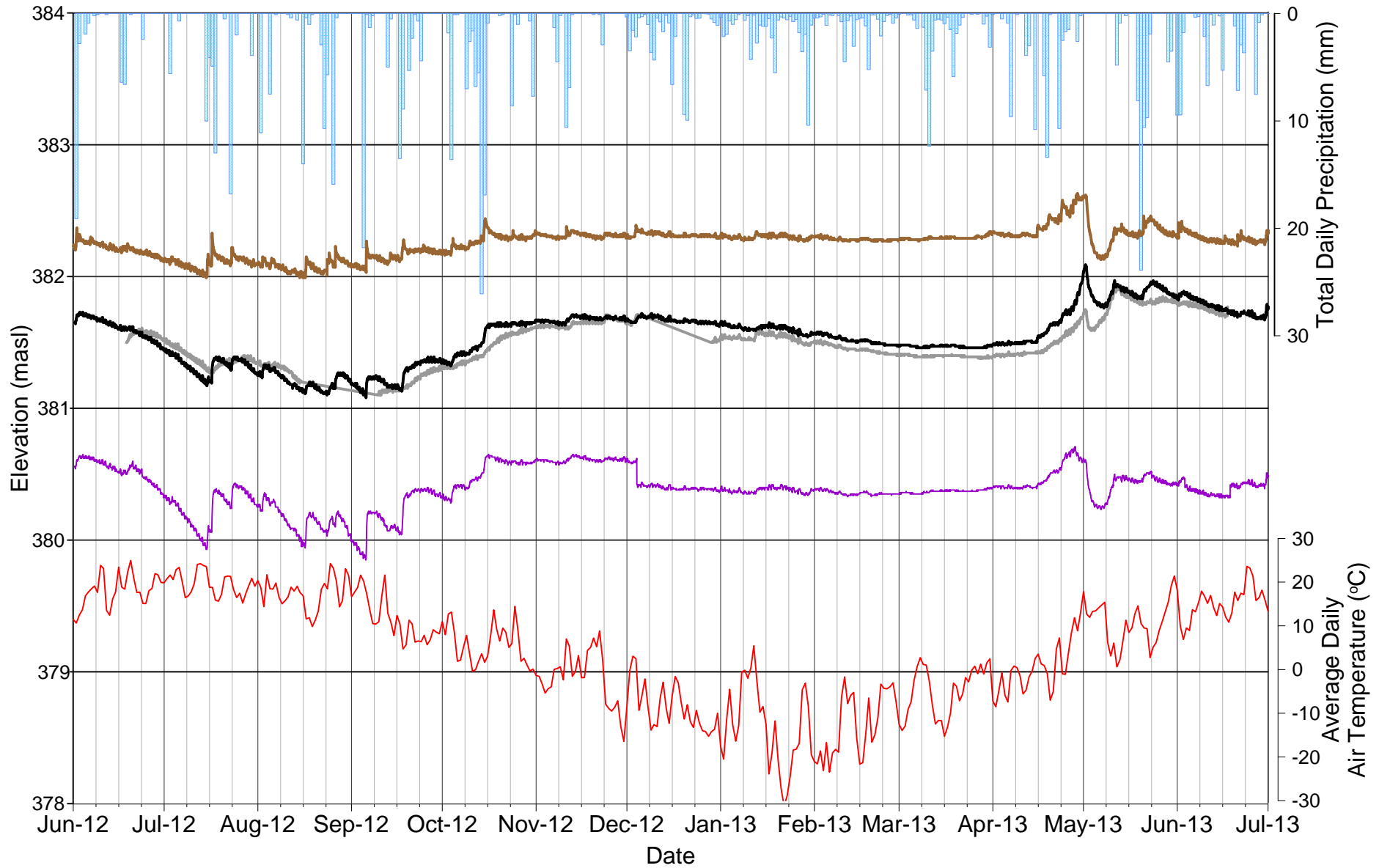
FIGURE: 1

DATE: 23/10/2013

PROJECT NO: 13-1192-0021

DRAWN: MO

REVIEW: JMP



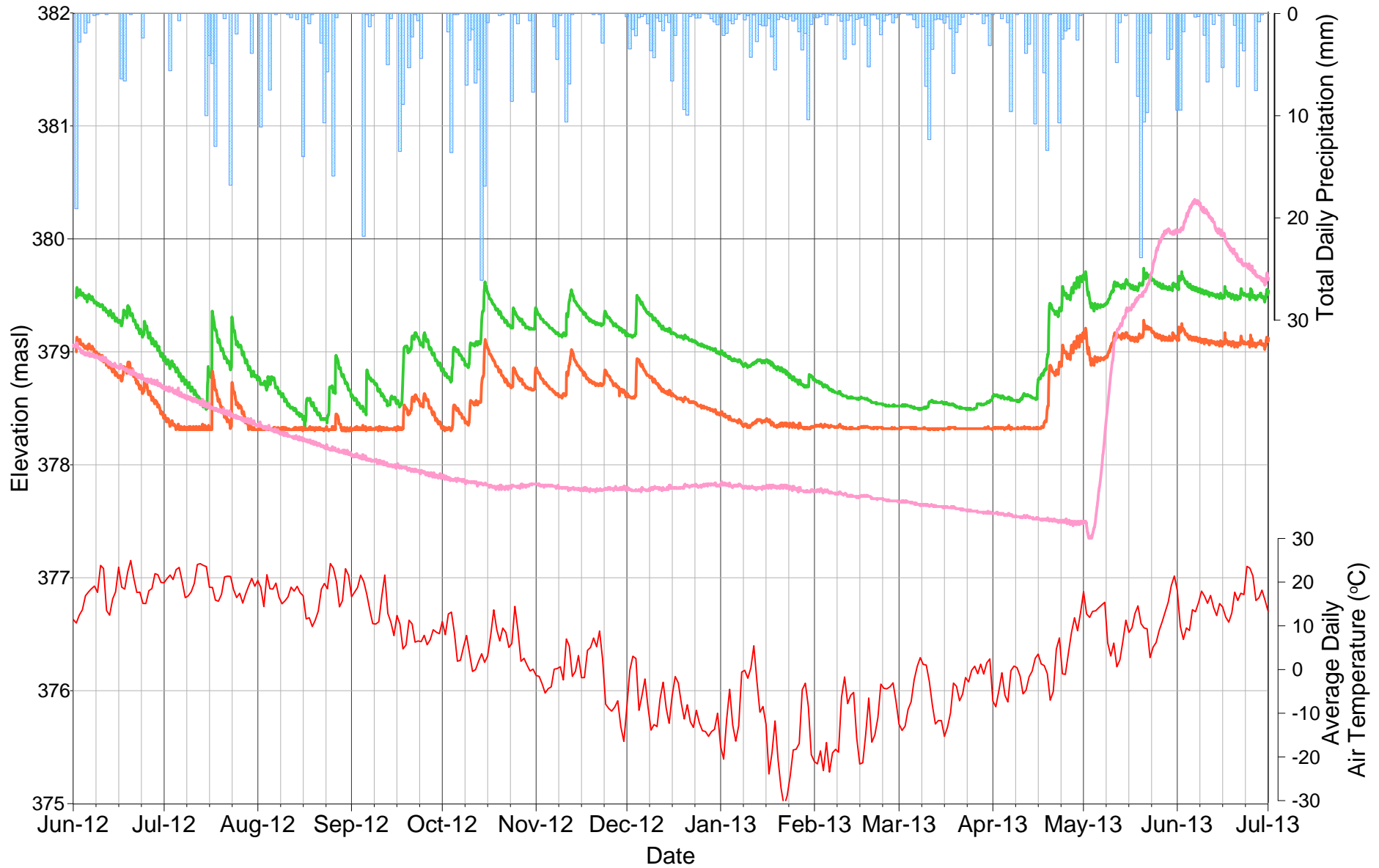
LEGEND

- DH12-WD-01 — DH12-WD-17B Precipitation
- DH12-WD-17A — DH12-WD-23 Air Temperature



Groundwater Elevations at Monitoring Locations East of Open Pit and MRA

FIGURE: 2	
DATE: 23/10/2013	
PROJECT NO: 13-1192-0021	
DRAWN: MO	REVIEW: JMP



LEGEND

- DH12-TMF-30
- DH12-TMF-31A
- DH12-TMF-31B
- Air Temperature
- ▒ Precipitation



Groundwater Elevations at Monitoring Locations in South Portion of TMF Area

FIGURE: 3

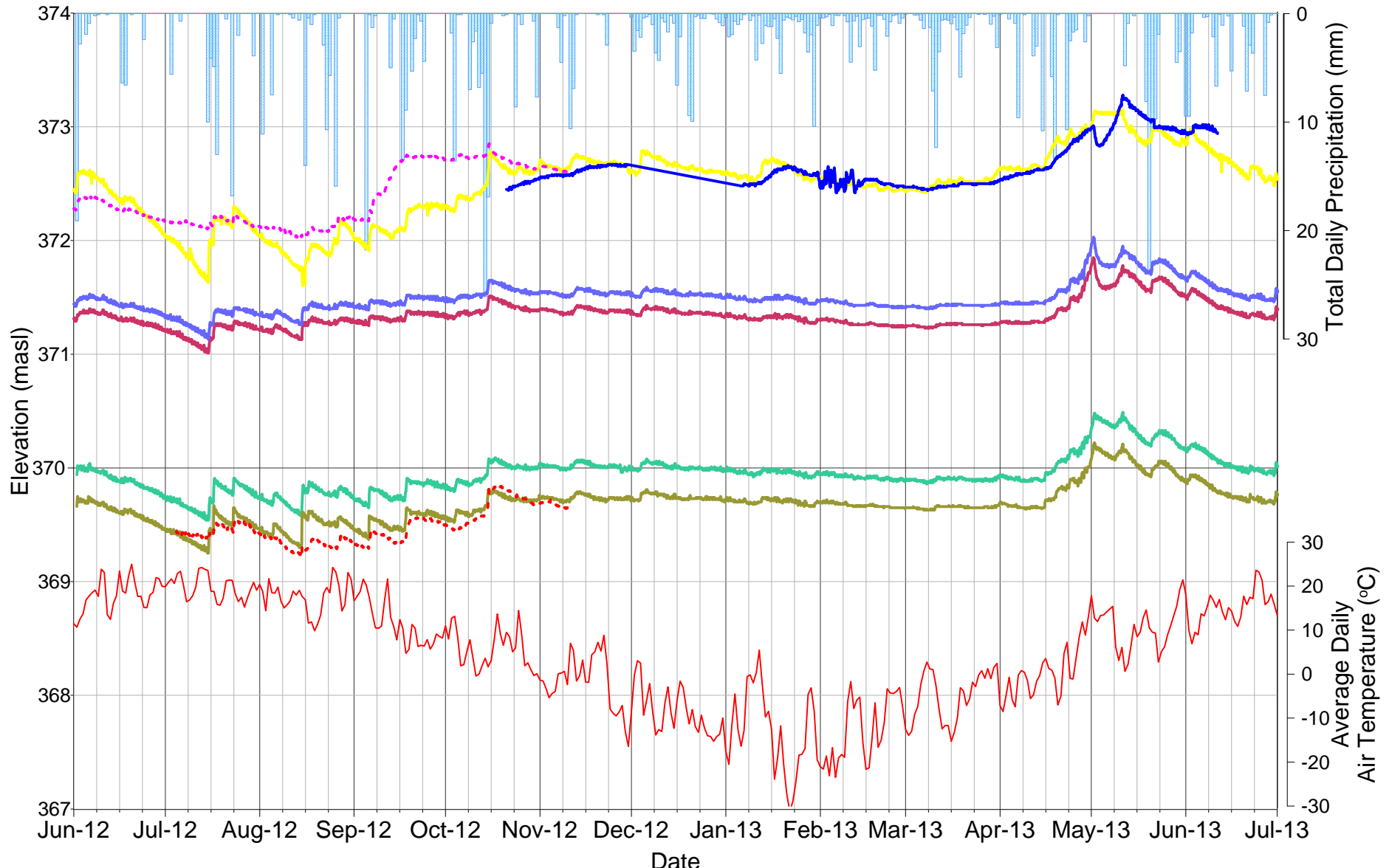
DATE: 23/10/2013

PROJECT NO: 13-1192-0021

DRAWN: MO

REVIEW: JMP

***Note:** Flat sections in the data for DH12-TMF-31B represent occasions where the water level dropped below the data logger, therefore data is not representative of groundwater elevation



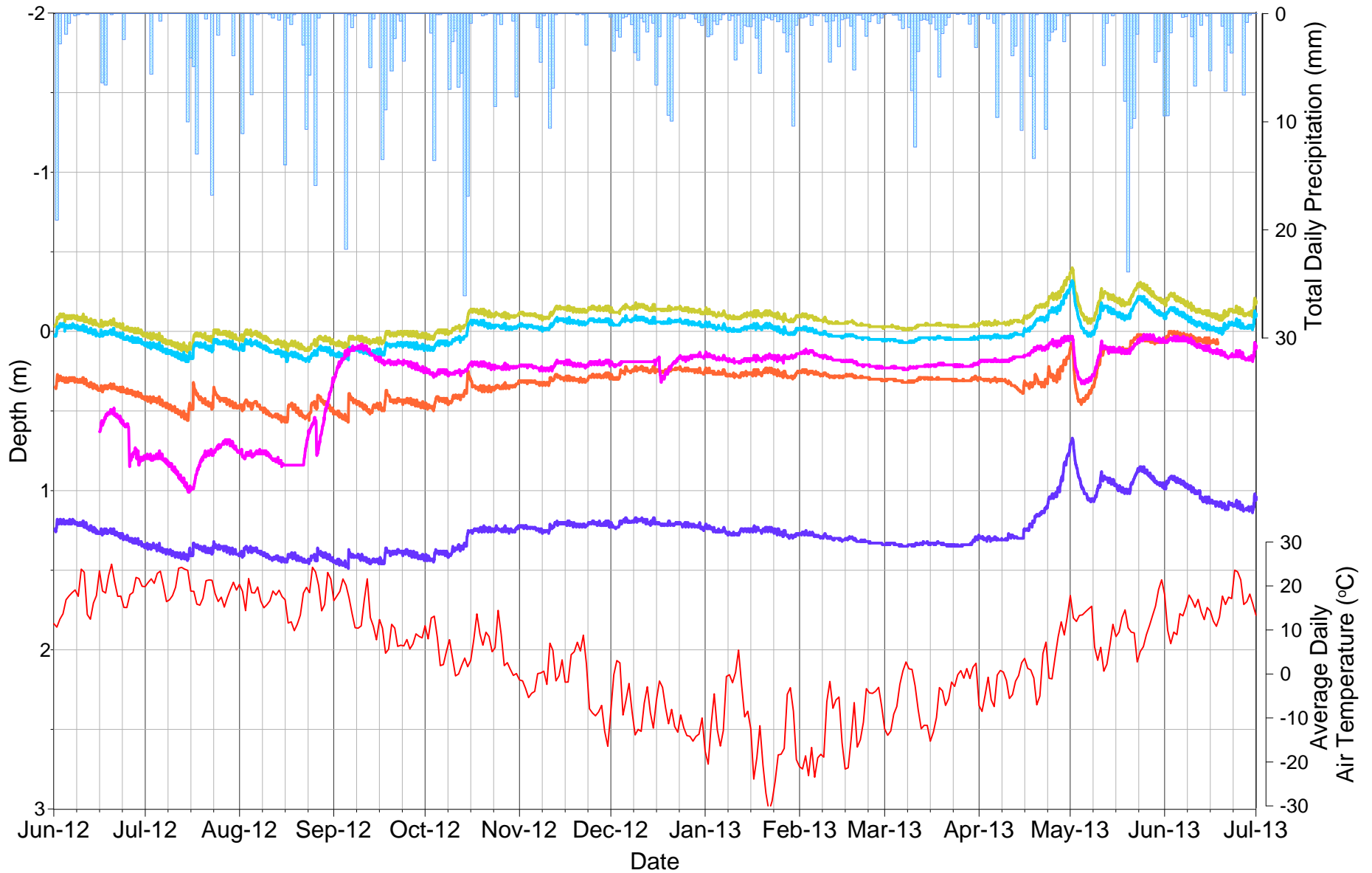
LEGEND

- DH12-TMF-05A — DH12-TMF-25A - - - Bagsverd Creek (BL-b)
- DH12-TMF-05B — DH12-TMF-25B Precipitation
- DH12-TMF-24A - - - Bagsverd Creek (BL-a) — Air Temperature
- DH12-TMF-24B



Groundwater Elevations at Monitoring Locations in North Portion of TMF Area

FIGURE: 4	
DATE: 23/10/2013	
PROJECT NO: 13-1192-0021	
DRAWN: MO	REVIEW: JMP



LEGEND

- DH12-PO-10
- DH12-WD-14
- Air Temperature
- DH12-WD-12A
- DH12-WD-26
- DH12-WD-12B
- Precipitation



Depth to Groundwater at Monitoring Locations West of Open Pit and MRA

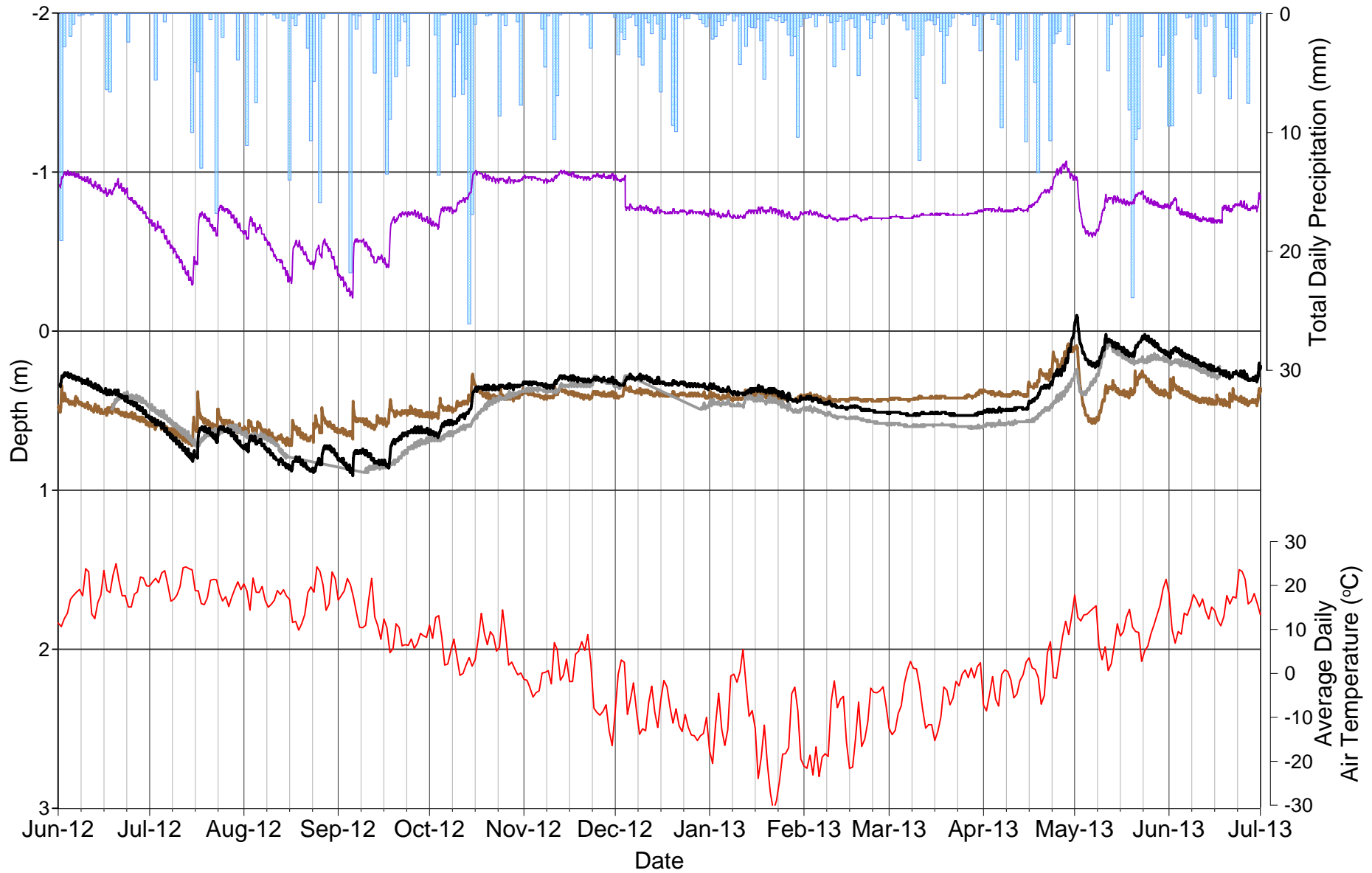
FIGURE: 5

DATE: 23/10/2013

PROJECT NO: 13-1192-0021

DRAWN: MO

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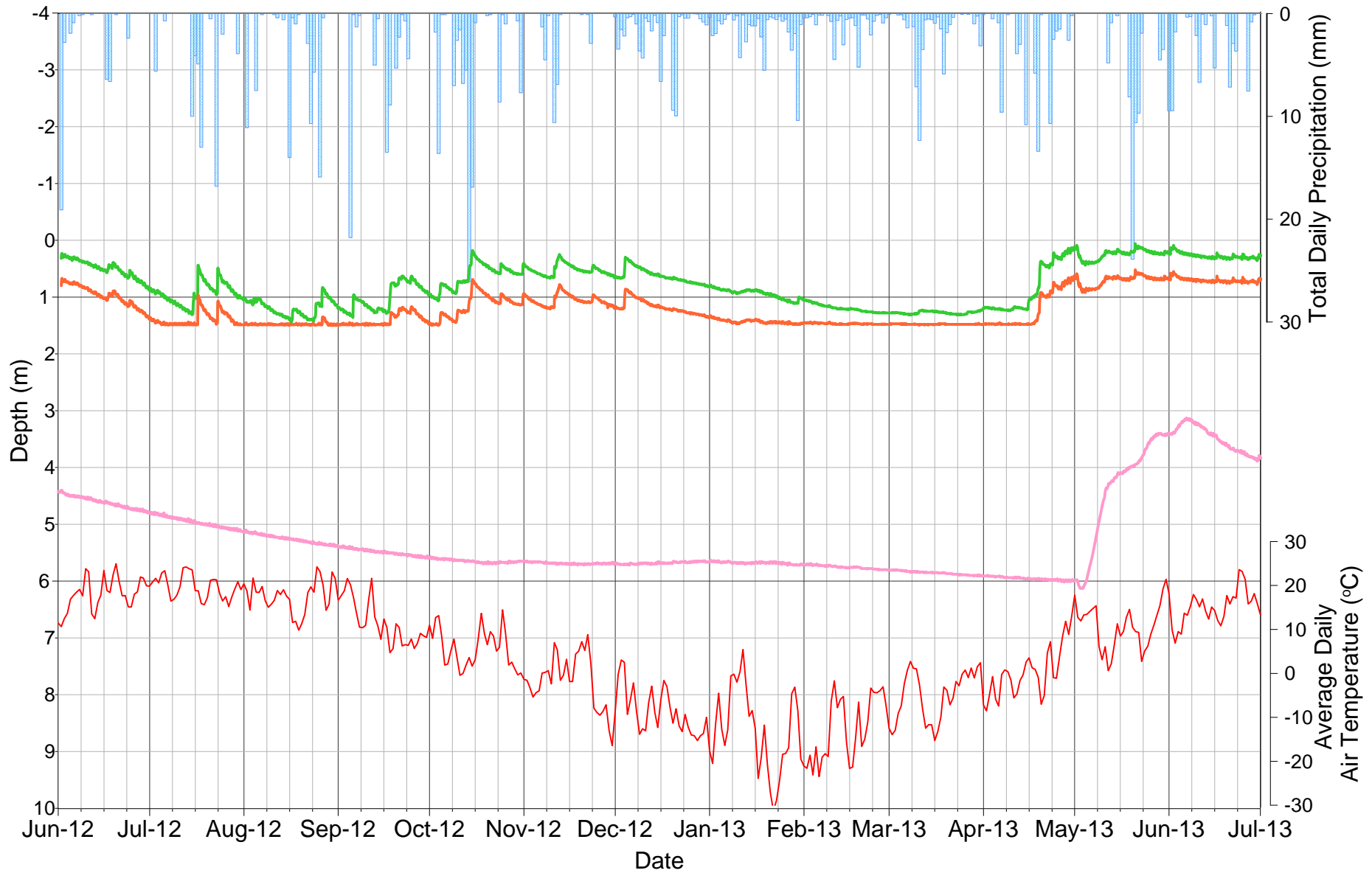
LEGEND

- DH12-WD-01 — DH12-WD-17B — Air Temperature
- DH12-WD-17A — DH12-WD-23 Precipitation



Depth to Groundwater at Monitoring Locations East of Open Pit and MRA

FIGURE: 6	
DATE: 23/10/2013	
PROJECT NO: 13-1192-0021	
DRAWN: MO	REVIEW: JMP



LEGEND

- DH12-TMF-30
- DH12-TMF-31A
- DH12-TMF-31B
- Precipitation
- Air Temperature



Depth to Groundwater at Monitoring Locations in South Portion of TMF Area

FIGURE: 7

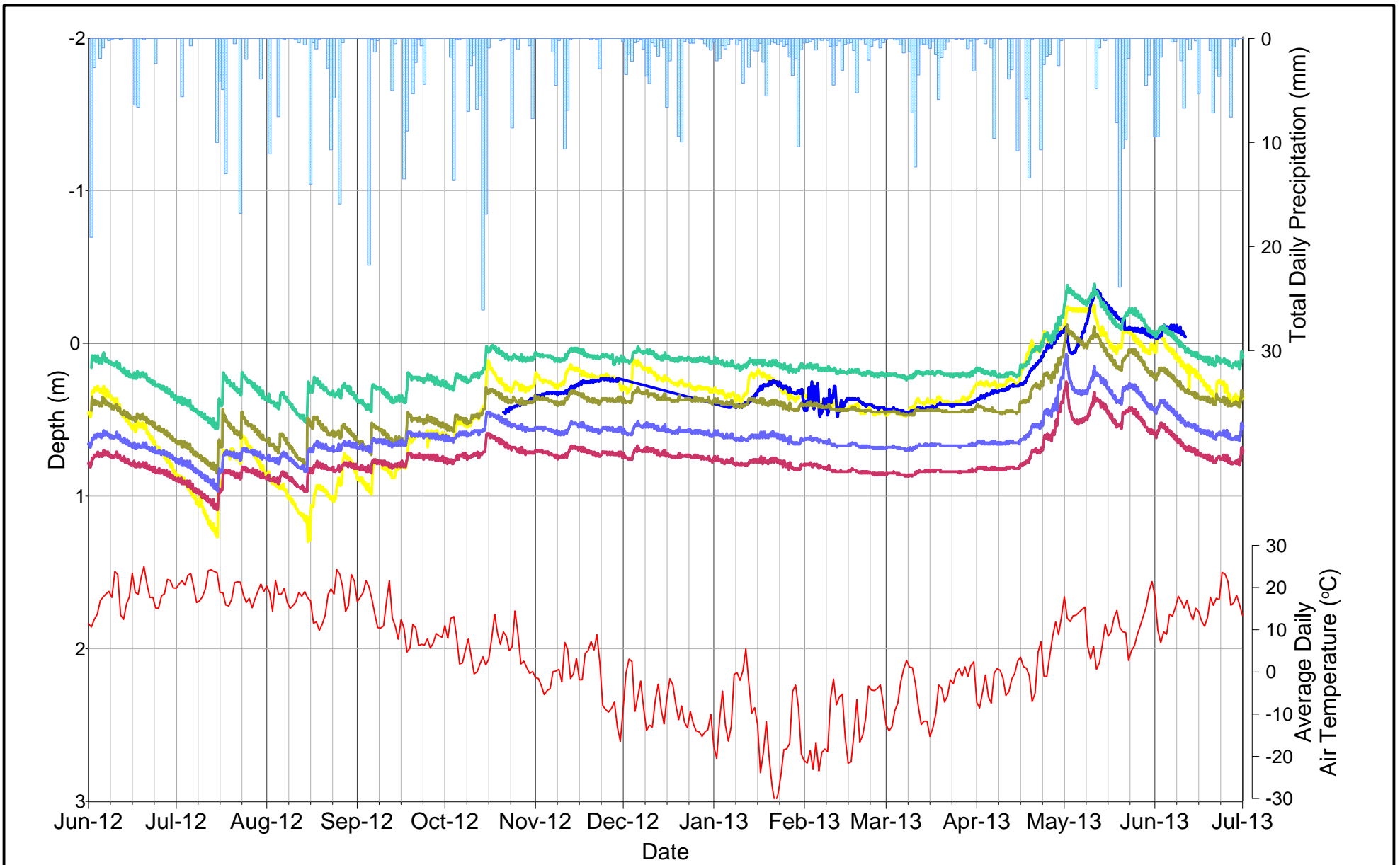
DATE: 23/10/2013

PROJECT NO: 13-1192-0021

DRAWN: MO

REVIEW: JMP

*Note: Flat sections in the data for DH12-TMF-31B represent occasions where the water level dropped below the data logger, therefore data is not representative of groundwater depth



LEGEND

- DH12-TMF-05A — DH12-TMF-24B — Air Temperature
- DH12-TMF-05B — DH12-TMF-25A ☐ Precipitation
- DH12-TMF-24A — DH12-TMF-25B



Depth to Groundwater at Monitoring Locations in North Portion of TMF Area

FIGURE: 8

DATE: 23/10/2013

PROJECT NO: 13-1192-0021

DRAWN: MO

REVIEW: JMP



APPENDIX N

Vertical Hydraulic Gradients

Project Component	Monitoring Well ID	May 2012		June 2012		August 2012		October 2012		December 2012		June 2013		August 2013		September 2013		Summary of Vertical Gradients			
		Groundwater Elevation (masl)	Vertical Gradient (m)	Groundwater Elevation (masl)	Vertical Gradient (m)	Groundwater Elevation (masl)	Vertical Gradient (m)	Groundwater Elevation (masl)	Vertical Gradient (m)	Groundwater Elevation (masl)	Vertical Gradient (m)	Groundwater Elevation (masl)	Vertical Gradient (m)	Groundwater Elevation (masl)	Vertical Gradient (m)	Groundwater Elevation (masl)	Vertical Gradient (m)	Maximum (m)	Minimum (m)	Average (m)	
Open Pit	BH12-2A	383.02		381.97		381.67		n/a		381.85		n/a		n/a		n/a					
	BH12-2B	383.58	-0.56	382.48	-0.51	381.93	-0.26	n/a	n/a	382.07	-0.22	n/a	n/a	n/a	n/a	n/a	n/a	-0.22	-0.56	-0.39	
	BH12-3A	383.71		384.21		383.49		n/a		383.11		n/a		n/a		n/a					
	BH12-3B	383.67	0.04	383.89	0.32	383.17	0.32	n/a	n/a	382.94	0.17	n/a	n/a	n/a	n/a	n/a	n/a	0.32	0.04	0.21	
	DH12-PO-01RA	n/a	n/a	n/a	n/a	n/a	n/a	380.88	-0.29	381.52	0.02	n/a	n/a	n/a	n/a	n/a	n/a	0.02	-0.29	-0.14	
	DH12-PO-01RB	n/a	n/a	n/a	n/a	n/a	n/a	381.17		381.50		n/a	n/a	n/a	n/a	n/a	n/a				
	DH12-PO-05RA	380.92		381.06		381.22		n/a		380.64		380.60		380.60		380.60		0.27	-0.51	-0.17	
	DH12-PO-05RB	381.43	-0.51	n/a	n/a	380.93	0.13	n/a	n/a	381.18	0.05	381.12	-0.48	381.09	-0.50	380.33		0.27	-0.51	-0.17	
	DH12-PO-08RA	n/a	n/a	n/a	n/a	n/a	n/a	385.29	0.06	385.50	0.06	n/a	n/a	n/a	n/a	n/a	n/a	0.06	0.06	0.06	
	DH12-PO-08RB	n/a	n/a	n/a	n/a	n/a	n/a	385.23		385.44		n/a	n/a	n/a	n/a	n/a	n/a				
	DH12-PO-16A	n/a	n/a	n/a	n/a	n/a	n/a	385.44	0.06	385.53	-0.05	n/a	n/a	n/a	n/a	n/a	n/a	0.06	-0.05	0.00	
	DH12-PO-16B	n/a	n/a	n/a	n/a	n/a	n/a	385.38		385.58		n/a	n/a	n/a	n/a	n/a	n/a				
	DH12-PO-20A	n/a	n/a	n/a	n/a	n/a	n/a	382.38		382.52		n/a	n/a	n/a	n/a	n/a	n/a				
	DH12-PO-20B	n/a	n/a	n/a	n/a	n/a	n/a	382.41	-0.03	382.70	-0.18	n/a	n/a	n/a	n/a	n/a	n/a	-0.03	-0.18	-0.11	
	DH12-PO-21A	n/a	n/a	n/a	n/a	n/a	n/a	381.00	0.01	381.30	-0.06	n/a	n/a	n/a	n/a	n/a	n/a	0.01	-0.06	-0.02	
	DH12-PO-21C	n/a	n/a	n/a	n/a	n/a	n/a	380.99		381.28		n/a	n/a	n/a	n/a	n/a	n/a				
	DH13-PO-05A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	381.03	0.23	381.30	0.66	380.82	0.08	0.66	0.08	0.32
	DH13-PO-05B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	380.80		380.64		380.74				
DH13-PO-09A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	386.80	0.68	386.72	0.67	n/a		0.68	0.67	0.67	
DH13-PO-09B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	386.12		386.05		n/a		0.68	0.67	0.67	
DH13-PO-16A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	385.83	0.08	385.70	-0.01	n/a	n/a	0.08	-0.01	0.04	
DH13-PO-16B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	385.75		385.71		n/a	n/a				
Mine Rock Area (MRA)	DH12-WD-12A	386.08	0.03	386.07	0.04	385.92	0.06	386.17	0.07	386.05	0.00	386.10	0.04	386.06	0.03	386.10	0.04	0.07	0.00	0.04	
	DH12-WD-12B	386.05		386.03		385.86		386.10		386.05		386.06		386.03		386.06					
	DH12-WD-17A	382.09	-0.37	381.14	-0.52	381.24	0.06	381.44	-0.17	381.71	0.02	381.77	0.06	n/a	n/a	381.58	-0.08	0.37	-0.52	-0.04	
	DH12-WD-17B	381.72		381.66		381.18		381.61		381.69		381.71		n/a		381.66					
	DH12-WD-25A	380.66	0.00	380.59	-0.02	380.14	-0.04	n/a	n/a	380.7	-0.01	380.66	-0.03	380.66	-0.01	n/a	n/a	0.00	-0.04	-0.02	
	DH12-WD-25B	380.66		380.61		380.18		n/a	n/a	380.69		380.73		380.67		n/a	n/a				
	DH12-WD-27A	388.78	0.02	n/a	n/a	388.34	-0.01	n/a	n/a	388.78	0.00	388.74	-0.01	388.54	-0.04	n/a	n/a	0.02	-0.04	-0.01	
	DH12-WD-27B	388.76		n/a	n/a	388.35		n/a	n/a	388.78		388.75		388.58		n/a	n/a				
DH13-WD-02A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	394.64	-0.05	394.65	-0.03	n/a	n/a	0.02	-0.05	-0.03	
DH13-WD-02B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	394.69		394.68		n/a	n/a				
Tailings Management Facility (TMF)	DH12-TMF-05A	372.9	0.38	370.89	-1.65	371.84	0.10	372.45	-0.16	372.6	0.00	372.89	0.17	372.03	-0.28	371.78	-0.46	0.38	-1.65	-0.24	
	DH12-TMF-05B	372.52		372.54		371.74		372.61		372.6		372.72		372.31		372.24					
	DH12-TMF-20A	372.7	-0.02	n/a	n/a	n/a	n/a	n/a	n/a	372.61	0.03	n/a	n/a	n/a	n/a	n/a	n/a	0.03	-0.02	0.00	
	DH12-TMF-20B	372.72		n/a	n/a	n/a	n/a	n/a	n/a	372.58		n/a		n/a		n/a					
	DH12-TMF-23A	372.21		372.26		371.87		n/a	n/a	372.48	0.37	n/a	n/a	n/a	n/a	n/a	n/a	0.56	0.29	0.43	
	DH12-TMF-23B	371.65	0.56	371.77	0.49	371.58	0.29	n/a	n/a	372.11		n/a	n/a	n/a	n/a	n/a	n/a				
	DH12-TMF-24A	369.88	0.04	369.95	0.04	369.61	0.29	370.06	0.27	370.01	0.27	370.02	0.27	n/a	n/a	n/a	n/a	0.29	0.04	0.20	
	DH12-TMF-24B	369.84		369.91		369.32		369.79		369.74		369.75		n/a	n/a	n/a	n/a				
	DH12-TMF-25A	372.35	0.08	371.3	-0.13	371.26	-0.13	371.51	-0.14	371.38	-0.16	371.39	-0.16	n/a	n/a	n/a	n/a	0.08	-0.16	-0.11	
	DH12-TMF-25B	372.27		371.43		371.39		371.65		371.54		371.55		n/a	n/a	n/a	n/a				
	DH12-TMF-27A	372.66	0.01	n/a	n/a	372.11	0.02	n/a	n/a	372.71	0.02	372.92	0.02	372.59	0.01	n/a	n/a	0.02	0.02	0.02	
	DH12-TMF-27B	372.65		n/a	n/a	372.09		n/a	n/a	372.69		372.9		372.58		n/a	n/a				
	DH12-TMF-31A	379.36	-0.01	379.32	0.20	378.33	0.02	379.57	0.50	379.17	0.55	379.4	-0.04	379.31	0.01	379.25	0.03	0.55	-0.04	0.16	
	DH12-TMF-31B	379.37		379.12		378.31		379.07		378.62		379.44		379.3		379.22					
DH12-TMF-32A	385.61	0.14	n/a	n/a	384.28	-0.18	n/a	n/a	384.81	-0.74	385.48	-0.17	383.91	-1.51	n/a	n/a	0.14	-1.51	-0.49		
DH12-TMF-32B	385.47		n/a	n/a	384.46		n/a	n/a	385.55		385.65		385.42		n/a	n/a					

Notes:

"masl" refers to metres above sea level
m' refers to metres

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ATTACHMENT II

Groundwater Model Report, Côté Gold Project



January 31, 2014

IAMGOLD CORPORATION

Groundwater Model Côte Gold Project

Submitted to:
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REPORT



Report Number: 13-1192-0021(3000 3020)

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1 e-copy - IAMGOLD Corporation
1 - Golder Associates Ltd.





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1.0 INTRODUCTION

IAMGOLD Corporation (IAMGOLD) is proposing to construct and operate a new open pit gold mine at the Côté Gold Project (the Project). The site is located approximately 20 kilometres (km) southwest of Gogama, 130 km southwest of Timmins and 150 km northwest of Sudbury in the Chester and Neville Townships, District of Sudbury, Ontario. Golder Associates Ltd. (Golder) was retained by IAMGOLD in early 2012 to conduct studies of the existing hydrological, climatological, hydrogeological, water quality and terrestrial biology conditions as part of the Environmental Assessment (EA) for the Project.

In support of the hydrogeological component of the EA, a three-dimensional (3D) groundwater flow model of the Project site and regional surrounds has been completed (Figure 1). The objectives of the groundwater modelling are as follows:

- realize the conceptual hydrogeologic characterization within a 3D numerical framework;
- assess potential pit inflows and groundwater level changes;
- estimate potential groundwater baseflow changes to surface water features due to open pit dewatering; and
- develop coarse estimates of dam seepages.

The modelling analysis considers the following scenarios:

- 1) **Existing Phase.** This simulation reflects current hydrogeological conditions. No water course realignments or excavations have occurred. The output of this simulation provides the baseline for assessing changes due to Construction Phase (i.e. pre-mining) activities.
- 2) **Construction Phase.** This scenario approximates conditions immediately prior to mining. Several lakes are dammed and water courses realigned as per the conceptual re-alignment (Calder Engineering 2013). The output of this simulation provides the baseline for assessing changes due to operational mining activities.
- 3) **Operations Phase.** The 20-year operational life of the open pit mine is evaluated progressively through time using the following time periods:
 - a) Year 0 to Year 1.
 - b) Year 2 to Year 4.
 - c) Year 5 to Year 8.
 - d) Year 9 to Year 12.
 - e) Year 13 to Year 16.
 - f) Year 17 to Year 20 (Ultimate Pit).

The purpose of this report is to describe model construction and simulated results. In addition, this document serves as an appendix to the Hydrogeology Technical Support Document (TSD; Golder 2013a), which itself is part of a broader EA reporting package. Much of the supporting hydrogeologic characterization and conceptual model development that the model is based upon are detailed in the TSD and are not repeated herein. As such, it is suggested that the reader consult the hydrogeology TSD prior to reading this report.



2.0 GENERAL MODEL ASSUMPTIONS

Several assumptions are utilized in order to realize the conceptual model within a practical numerical framework, including:

- Groundwater flow, including that in the bedrock system, may be simulated as an equivalent porous medium (EPM). In this setting, groundwater flow is a function of the hydraulic gradient and the hydraulic conductivity of the medium. An EPM assumption is deemed sufficient for characterizing groundwater flow at the scale of this analysis.
- Overburden thickness is mapped and implemented in the model in accordance with available data extents. External to this area an overburden thickness of 5 m is assumed based on the average overburden thickness recorded in borehole logs.
- The overburden is lumped as one “bulk” material type in the model, given the general similarity of materials observed in the borehole logs.
- Drilling has occurred beneath Côté Lake, Unnamed Lake, Clam Lake and Upper Three Duck Lakes. The drill records indicate that lakebed material consists of unconsolidated sediment ranging from 1 m to 16 m thick. For lakes with no drilling information, an overburden thickness of 5 m is assumed to underlie the lake.
- The Project site includes several other components in addition to the open pit, including (Figure 1):
 - **Mine Rock Area (MRA).** Contact water will be managed such that the majority of infiltration over the MRA will report to the adjacent Mine Rock Storage Ponds (MRSPs), rather than directly enter the water table (Golder 2013b). As such, infiltration that reports to or reaches the underlying groundwater table is assumed to be small (50 millimetres per year [mm/yr]), and, with the exception of adding the three MRSPs closest to the open pit, no additional consideration is given to the implementation of the MRA in the model.
 - **Tailings Management Facility (TMF).** The TMF lies approximately 3.5 km downgradient from the open pit, with a large lake (Bagsverd Lake) lying between the two. The far-field location of the TMF renders it inconsequential in the prediction of pit inflows and drawdown and is therefore not explicitly considered in the model.
 - **Low Grade Ore Stockpile, Processing Plant and Camp Site.** These relatively small project components may tend to reduce recharge rates over their footprints and thus have a minor, localized effect on the water table. However, a far greater influence on drawdown extents will be imposed by the nearby open pit dewatering and the water bodies that surround these project features. As a result these project components are omitted from the model.

3.0 MODEL CONSTRUCTION

3.1 Flow Code

The MODFLOW-2005 (Harbaugh 2005) code is used to simulate groundwater flow at the site. MODFLOW is a multi-purpose three dimensional groundwater flow code developed by the United States Geological Survey. It is



modular in nature and uses the finite difference formulation of the groundwater flow equation in its solution. MODFLOW is recognized as an industry standard for general purpose groundwater flow modelling and has gained wide acceptance from academia, consultants and regulatory agencies worldwide. Visual MODFLOW® (Version 2011.1) is used as the pre and post-processor for the simulations presented in this report. The preconditioned conjugate gradient method (PCG2) is used to solve the groundwater flow equations.

3.2 Domain and Discretization

The active model area encapsulates the proposed mine and regional surrounds, covering an area of approximately 167 km² (Figure 1). The active model domain is delineated based on hydrogeologic boundaries such as major lakes and rivers or inferred groundwater divides. The model resides within the Hydrogeology Study Area (HSA), with approximately half of the model perimeter coincident with the borders of the HSA.

The 3D model grid is constructed using a “cube” model approach, resulting in a dense 3D grid with uniform cell dimensions and fixed layer elevations. The primary advantages of this method are that it increases numerical stability relative to variably thick/sharply sloping layering and allows straightforward input of the open pit expansion over time. Table 1 summarizes the model grid dimensions and properties.

Table 1: Model Grid Properties

Lower Left Corner (UTM17 NAD83):	424,000 ; 5,257,800
Upper Right Corner (UTM17 NAD83):	437,300 ; 5,278,300
Top/Bottom (masl):	420/-300
Cell Dimensions:	100 m wide by 100 m long by 5 m increasing to 50 m thick with depth
Number of Numerical Layers:	50
Number of Cells:	1,380,200 total/737,397 active

Note:
UTM - Universal Transverse Mercator
NAD - North American Datum

3.3 Topography and Lake Bathymetry

The study area is characterized by shield terrain (i.e. Canadian Shield geological region), where resistant bedrock outcrops generate irregular drainage patterns, undulating topography and frequent lakes, ponds and wetlands with ground surface elevations ranging from approximately 350 metres above sea level (masl) to 410 masl (Figure 1). Topographic mapping for the model domain is developed using LiDAR data or, in areas where LiDAR is absent, a government issued Digital Elevation Model, or DEM (MNR 2013).

The top of the model “cube” is a uniform 420 masl. As the top elevation of the model is selected to envelope topographic highs, cells situated above local topography are “air” and thus assigned inactive until the layer containing topographic elevation is reached for a given row and column in the model. In other words, the demarcation between overlying inactive cells and underlying active cells is defined by ground surface (Figure 1).

The model topography incorporates bathymetric elevations for Bagsverd, Chester, Clam, Little Clam, Côté, Upper Three Duck and Weeduck Lakes (AMEC 2011). Lakes without bathymetric data are assumed to be 5 m deep.



3.4 Overburden Thickness

An overburden thickness map is inferred by interpolating data in 770 drillhole logs in and around the proposed open pit area (Figure 2). Overburden thickness ranges from 0 m at bedrock outcrops to over 20 m locally in the vicinity of the open pit. Generally speaking, the greatest thickness of overburden is confined to relatively narrow and steep sided bedrock valleys or troughs with limited continuity.

External to the data extents an overburden thickness of 5 m is assumed based on the average overburden thickness recorded in borehole logs. While it is unlikely that the overburden is everywhere continuous at this thickness regionally, the approach applied in the model is considered conservative from an effects assessment perspective. As the overburden is the most transmissive unit in the model, the potential for water table drawdown to expand laterally is maximized by implementing it continuously through the model domain.

The bedrock surface implemented in the model is delineated by subtracting the overburden thickness from the modelled topographic elevation (Figure 1).

3.5 Model Layering, Hydraulic Conductivity and Storage Terms

The model hydrostratigraphy, hydraulic conductivity (K) are illustrated cross-section in Figure 3 (see Figure 1 for plan view location of section) and summarized in Table 2. The layout of the hydrostratigraphic units and their respective hydraulic conductivities are based on the conceptualization provided in the TSD (Golder 2013a). All materials are considered isotropic.

Specific yield and specific storage are also included in Table 2. These values are derived from literature sources (Davis 1969).

Table 2: Model Hydrostratigraphic Units, Hydraulic Conductivity and Storage Parameters

Sequence	Unit	Thickness (m)	K (m/s)	Sy (m ³ /m ³)	Ss (1/m)
1a	Dam (where present)*	5 - 20	1E-5*	0.2	1E-5
1b	Overburden	0 to 25	9E-6	0.2	1E-5
2	Shallow Weathered Rock	10	4E-7	0.009	1E-6
3	Upper Rock	40	1E-7	0.0009	1E-6
5	Intermediate Rock	150	2E-8	0.0009	1E-6
6	Deep Rock	460+	1E-9	0.0009	1E-6

Note:

*The dam material is present in the Construction and Operations Mining Phases. In reality, the hydraulic conductivity of the dam material will likely be closer to 1E-6 m/s. However, given the relatively large horizontal cell dimensions in the model (100 m x 100 m) and the subsequent coarse representation of the dams, a higher hydraulic conductivity is assigned in order to simulate a similar seepage rate that may be expected with a narrower dam dimension.

m – metre

K - hydraulic conductivity

m/s – metre per second

Sy - specific yield

Ss - specific storage



3.6 Recharge

The annual water surplus for the region is in the range of 200 mm/yr to 500 mm/yr (Golder 2013c). The proportion of surplus entering the saturated groundwater system as recharge is expected to be below this range for several reasons, including: 1) the poorly drained condition of the valley areas; 2) overburden, despite being the most permeable surficial material, is typically confined to these saturated valley areas; and 3) elsewhere, surficial bedrock is relatively low hydraulic conductivity ($4E-7$ m/s). Based on an iterative process using the model it is found that recharge rates over 50 mm/yr produce water table mounding, with excessive mounding (25 m+) occurring at rates of over 75 mm/yr. As such, a recharge rate of 50 mm/yr is applied over the entire model domain, except for water bodies and the open pit footprint, which have zero recharge.

3.7 Boundary Conditions

Model boundary conditions are illustrated in Figure 4. In addition, boundary conditions are also noted in the model cross-section Figure 3. There are three types of boundary condition cells in the model: 1) inactive; 2) constant head; and 3) drains:

- *Inactive cells* create a no-flow boundary which may represent either a hydraulic no-flow boundary, such as a regional groundwater divide, or a no-flow material (i.e. 'air' in this particular model, such as found above topography or in the interior of the open pit). A portion of the active model domain is bordered by watershed divides; groundwater divides are considered coincident with these divides and are thus delineated by no-flow inactive cells.
- *Constant head cells* have a fixed groundwater elevation and may add to or remove water from the system depending on the calculated head of the adjoining active cell(s). Constant head cells are used to represent lakes, rivers, and Mine Rock Storage Ponds (MRSPs) in the model. The largest drainage feature in the model, Mesomikenda Lake, is modelled using constant head cells. The head value(s) assigned to a lake or river are in accordance with topographic elevation (Figure 1). For dammed lakes and re-aligned streams, head elevation is prescribed in accordance with design elevations (Calder 2013). MRSP 1, 2 and 3 are added to the operations model using constant head cells over their footprint at design pond water elevations of 384.3 masl, 383.5 masl, and 387.6 masl, respectively (Golder 2013b). Notably, only the three MRSPs closest to the open pit are input in the model; the remainder are not considered as they are estimated to have a marginal effect on pit inflows and drawdown.
- *Drain cells* are used to model potential groundwater discharge (outflow) locations. Drains remove water from the system at a rate proportional to the difference between the head in the material and a fixed drain elevation. These cells have no effect if the head in the aquifer falls below the drain elevation. Drains are used to simulate several different hydrogeologic features in the model, including:
 - An approximate seepage face condition along the open pit slopes, thus effecting the dewatering of the open pit. The drain cells ring the open pit perimeter from the top of the open pit to the bottom in roughly concentric fashion. The interior of the open pit is infilled with inactive cells (i.e. air). The open pit drain cells are assigned a head elevation equivalent to the bottom of the layer they reside plus 2 m.
 - Potential hillside seeps along topographic highs. The cells are assigned a drain elevation equal to topographic elevation.



- Toe drains at the base of the lake dams. The drainage elevation of the toe drain at the foot of the dam is equivalent to top of rock at its location.
- Channels or basins of previously flowing features around the open pit such as Côté Lake and its tributaries. These drains cells are assigned elevations equivalent to topographic elevation, or, in the case of Côté Lake its bathymetric elevation (during the Construction Phase only; the Côté Lake area is occupied by the open pit during Operations Phase).

3.8 Sensitivity Analysis

A sensitivity analysis is conducted to obtain a potential upper limit on pit inflows, baseflow changes, and drawdown. Hydraulic conductivity values and recharge are both multiplied by two with the exception of the hydraulic conductivity of the realignment dams. The increased hydraulic conductivity tends to limit the amount of mounding that might otherwise be induced by the doubling of recharge and a water table pattern similar to the base case is produced. Given the range of measured hydraulic conductivities and uncertainty in recharge inputs this is considered a reasonable upper bound on these parameters.

4.0 MODEL RESULTS

The Existing, Construction and Operations phase models were run and simulated flow budgets and groundwater levels logged for both base case and sensitivity analysis model sets. The base case simulated water table for Existing, Construction, and Operations Mining phase models are shown on Figure 5. The following sections summarize model output as it pertains to pit inflows, groundwater level changes, baseflow changes to surface water features, and dam seepages.

4.1 Pit Inflows

Predicted groundwater pit inflows are provided for the construction phase when the overburden is excavated, through six stages of the open pit excavation during operations (Table 3).

Table 3: Predicted Open Pit Groundwater Inflows Over Life of Mine

Phase (Years)	Approximate Greatest Pit Depth (m)	Pit Inflow (Base Case)	Pit Inflow (Sensitivity Analysis Upper Limit)
Existing	-	-	-
Construction	-	200	400
Operations (0 -1)	30	1,100	1,720
Operations (2 – 4)	80	2,000	3,780
Operations (5 – 8)	140	2,140	4,120
Operations (9 – 12)	220	2,180	4,240
Operations (13 – 16)	350	2,200	4,300
Operations (17 – 20)	550	2,210	4,310

Note:
m – metre



During the construction phase there is some inflow to the open pit area as the dewatered Côté Lake area and its associated tributaries will still receive some groundwater discharge as these features are local depressions.

During the operations phase base case pit inflows increase rapidly to 1,100 m³/d during the first year of mining and then level off to between 2,000 to 2,210 m³/d through Year 4 to the end of mine life. The large increase in pit inflows in early time is in part due to groundwater released from storage in the overburden and weathered rock. Approximately 40% to 50% of inflows during early mine life are due to storage release; by the end of mining storage accounts for less than 10% of total inflows. The relatively small change in groundwater inflows as the open pit is progressively deepened from Years 5 through Year 20 indicates that the primary pathway for groundwater seepage continues to occur through the shallow flow system, being the overburden and upper 50 m of the rock mass, with limited groundwater inflow from the deep flow system.

The presence of the MRSPs contributes to the magnitude of inflows due to their close proximity to the open pit. During the first year of active mining, the MRSPs contribute 320 m³/d of the total 1,100 m³/d of groundwater entering the open pit. By the end of active mining, the MRSPs contribute 1,220 m³/d of the total 2,210 m³/d. The increased contribution is due to the widening gradient between fixed pond water elevations and the deepening open pit floor.

Pit inflows essentially double from the base case to the potential upper limit simulated in the sensitivity analysis, with the rate of inflow increase being similar.

4.2 Dam Seepage

Seepage through the realignment dams constructed in the vicinity of the open pit perimeter is summarized in Table 4 below. The modelled elevation difference between lake level and downstream dam toe for Clam Lake, Three Duck Lakes and Chester Lake is approximately 5 m, 6 m and 6 m, respectively.

Table 4: Dam Seepages Over Life Of Mine

Phase (Years)	Clam Lake Dam Seepage (m ³ /d)	Three Duck Lakes Dam Seepage (m ³ /d)	Chester Lake Dam Seepage (m ³ /d)
Existing	-	-	-
Construction	175	100	40
Operations (0 -1)	140	90	5
Operations (2 – 4)	5	2	1
Operations (5 – 8)	0	0	0
Operations (9 – 12)	0	0	0
Operations (13 – 16)	0	0	0
Operations (17 – 20)	0	0	0

Note:
m³/d – cubic metres per day

At the end of the Construction Phase (and prior to mining), seepage through the realignment dams and reporting to the collection systems at the toe of each dam ranges from 175 m³/d at the Clam Lake dam to 40 m³/d at the Chester Lake dam. As modelled, the quantities reporting to each of the seepage collection systems decrease to



zero as the open pit dewatering eventually underdrains the dams. It is important to note, however, that there would still likely be some lateral seepage occurring through the dams that cannot be accounted for in the current model set-up. Furthermore, model predictions of seepage through the realignment dams will be developed as part of the dam design engineering studies and, as such, the estimates provided herein are preliminary.

4.3 Baseflow Changes

Baseflow changes to local surface water features will occur as a result of 1) watercourse realignment and lake damming undertaken during the construction phase; and, more significantly, 2) open pit dewatering implemented during operational mining. Groundwater inflows to the open pit are derived from the adjacent lakes and recharge from precipitation to the area between the lakes and around the open pit. As the open pit is deepened through the life of mine, groundwater that previously discharged to the nearby lakes is progressively redirected to the open pit, resulting in decreased baseflow. In addition, leakage may be induced from the bottom of the lakes to the open pit, thus decreasing the net groundwater inflow to the lakes. Table 5 summarizes the net groundwater inflows to affected lakes over the life of mine.

Table 5: Net Groundwater Inflow to Lakes Over Life of Mine (Base Case)

Phase (Years)	Clam Lake Net Inflow ^(a) (m ³ /d)	Chester Lake Net Inflow (m ³ /d)	Three Duck Lakes Net Inflow (m ³ /d)	Weeduck Lake Net Inflow (m ³ /d)	Bagsverd Lake Net Inflow (m ³ /d)
Existing	400	1,960	1,230	91	640
Construction	210	1,897	1,161	91	604
Operations (0 - 1)	197	1,893	1,156	91	600
Operations (2 – 4)	110	1,890	1,134	90	562
Operations (5 – 8)	62	1,885	1,119	90	546
Operations (9 – 12)	32	1,882	1,108	89	538
Operations (13 – 16)	24	1,881	1,105	89	535
Operations (17 – 20)	15	1,880	1,102	89	533

Notes

^(a) Includes both Clam Lake and Little Clam Lake
m³/d – cubic metres per day

The largest reduction in net groundwater inflow occurs at Clam Lake, where 385 m³/d, or 96%, of groundwater flow is reduced from Existing Phase to Operations Phase (Ultimate Pit). The second largest reduction occurs at Bagsverd Lake, where 107 m³/d, or 17% of baseflow is reduced from Existing Phase to Operations Phase (Ultimate Pit). The remaining lakes have baseflow losses of 10% or less.

In coordination with the hydrology assessment (Golder 2013a), the reductions in groundwater inflows to each of the lakes (i.e. seepage losses to the open pit and through realignment dams) are compared to the average daily total outflow from each lake. Water budget analysis indicate average daily total lake outflows range from approximately 35,000 m³/d at Clam and Little Clam Lakes to 50,000 m³/d at Three Duck Lakes (Lower). Thus, the predicted groundwater inflows to the open pit, as derived from each of the surrounding catchments, result in less than a 1% change in the overall water budget for a given lake on average.



A similar analysis is conducted on the sensitivity analysis input and is summarized in Table 6.

Table 6: Net Groundwater Inflow to Lakes Over Life of Mine (Sensitivity Analysis)

Period (Years)	Clam Lake Net Flow ^(a) (m ³ /d)	Chester Lake Net Flow (m ³ /d)	Three Duck Lakes Net Flow (m ³ /d)	Weeduck Lake Net Flow (m ³ /d)	Bagsverd Lake Net Flow (m ³ /d)
Existing	773	3,933	2,467	201	1,299
Construction	479	3,808	2,357	180	1,209
Operations (0 -1)	450	3,798	2,337	180	1,187
Operations (2 – 4)	200	3,687	2,113	177	1,112
Operations (5 – 8)	96	3,651	2,023	176	1,083
Operations (9 – 12)	34	3,628	1,966	175	1,067
Operations (13 – 16)	21	3,622	2,002	175	1,063
Operations (17 – 20)	12	3,619	1,943	174	1,061

Notes

^(a) Includes both Clam Lake and Little Clam Lake
m³/d – cubic metres per day

Discharge to lakes in the sensitivity analysis has increased due to the higher hydraulic conductivity and recharge; however, the amount of inflow reduction is greater. For example, a maximum reduction of 467 m³/d occurs at Clam Lake. Nonetheless, the reduction shown in Table 6 results in losses of 1% or less of the each lake’s overall water budget.

4.4 Simulated Water Level Change

There are two instigators of groundwater level change considered in the model: 1) stream realignments and lake level changes due to damming; and 2) open pit dewatering.

Changes to the water table for Existing Phase to Construction Phase are shown on Figure 6. The addition of an incised drainage feature through what was previously higher ground causes a decline in water table elevations locally in the realignment areas of up to 10 m. However, it should be noted that water level declines due to the stream realignments are likely overestimated in the model; this is due to the coarseness of the model cells (100 m x 100 m) and the limited capacity of the model to resolve steep changes in topographic elevation such as those that may occur along the realignment water courses. This is particularly true of the Bagsverd Creek realignment, which traverses between two local topographic highs.

Water table drawdown at the end of the Operation Phase (relative to the Construction Phase) is shown in Figure 7. The presence of the lakes and MRSPs truncates the zone of influence around the open pit; as such, the drawdown cone spreads in a non-uniform fashion. The farthest extent of the 1 m drawdown contour is approximately 1.4 km southwest from the open pit.

Water table drawdown using the sensitivity analysis parameters is also simulated for the end of the Operation Phase (Figure 8). The drawdown cone is similar to the base case drawdown shown in Figure 7, albeit slightly more extended in some areas, with the farthest extent again occurring to the southwest approximately 1.5 km



from the open pit footprint. Whereas the higher hydraulic conductivity used in the sensitivity analysis would tend to increase the lateral extent of drawdown, the associated increase in recharge has offset this trend.

5.0 LIMITATIONS

5.1 Use of This Report

This report has been prepared for use by IAMGOLD or its authorized agents. The factual information, descriptions, interpretations, comments, conclusions and electronic files contained herein are specific to the project described in this report. Information used in this report should be restricted to that specified in the scope of work unless otherwise mutually agreed upon by IAMGOLD and Golder. This report should be read in its entirety as some sections could be misinterpreted when taken individually or out-of-context. As mentioned previously, and noted in the reference section, this report relies on information provided in separate studies; these reports should be consulted in conjunction with reading this report. Golder is not responsible for use of this report and its content by a third party, and/or for its use for purposes other than those intended. As well, the final version of this report and its content supersedes any other text, opinion or preliminary version produced by Golder.

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5.2 Groundwater Modelling General Limitations

Hydrogeological investigations and groundwater modelling are dynamic and inexact sciences. They are dynamic in the sense that 1) the state of any hydrological system is changing with time; and 2) the science is continually developing new techniques to evaluate these systems. They are inexact in the sense that site data provides a fraction of information for the entire site or model domain; as such a comprehensive or total characterization of the groundwater system is not possible.

A groundwater model uses the laws of science and mathematics to draw together the available data into a computer-based representation of the essential features of an existing hydrogeological system. The validity and accuracy of the model depends on the amount of data available relative to the degree of complexity of the geologic formations and on the quality and degree of accuracy of the data entered. Therefore, every groundwater model is, by necessity, a simplification of a reality.

The professional groundwater modelling services described in this report are conducted in a manner consistent with that level of care and skill normally exercised by other members of the engineering and science professions currently practicing under similar conditions. The results of previous or simultaneous work provided by sources other than Golder and quoted and/or used herein are considered as having been obtained according to recognized and accepted professional rules and practices, and therefore deemed valid.



This model provides a predictive scientific tool to evaluate the effects on a real groundwater system of specified hydrological stresses and/or to compare various scenarios in a decision-making process. The model's accuracy is bound to the normal uncertainty associated to groundwater modelling and no warranty, express or implied, is made.

6.0 REFERENCES

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7.0 CLOSURE

A 3D groundwater model of the Côté Gold Project is constructed to assess the potential effects of watercourse realignment and open pit dewatering on the hydrogeological system. Realignment and lake damming are found to have a minor and localized effect on the water table. Dam seepage rates are small (less than 200 m³/d) and decrease over life of mine as the open pit dewatering underdrains the dams. The greatest impacts occur near the cessation of operational mining when the open pit is at ultimate extents. At this stage, pit inflows may range from 2,210 m³/d to 4,310 m³/d, with drawdown ranging up to 1.5 km southwest from the open pit footprint. Open pit dewatering results in baseflow losses to surrounding lakes; however, these losses are around 1% or less of the lake's total flow budget.

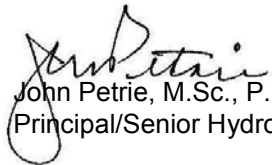


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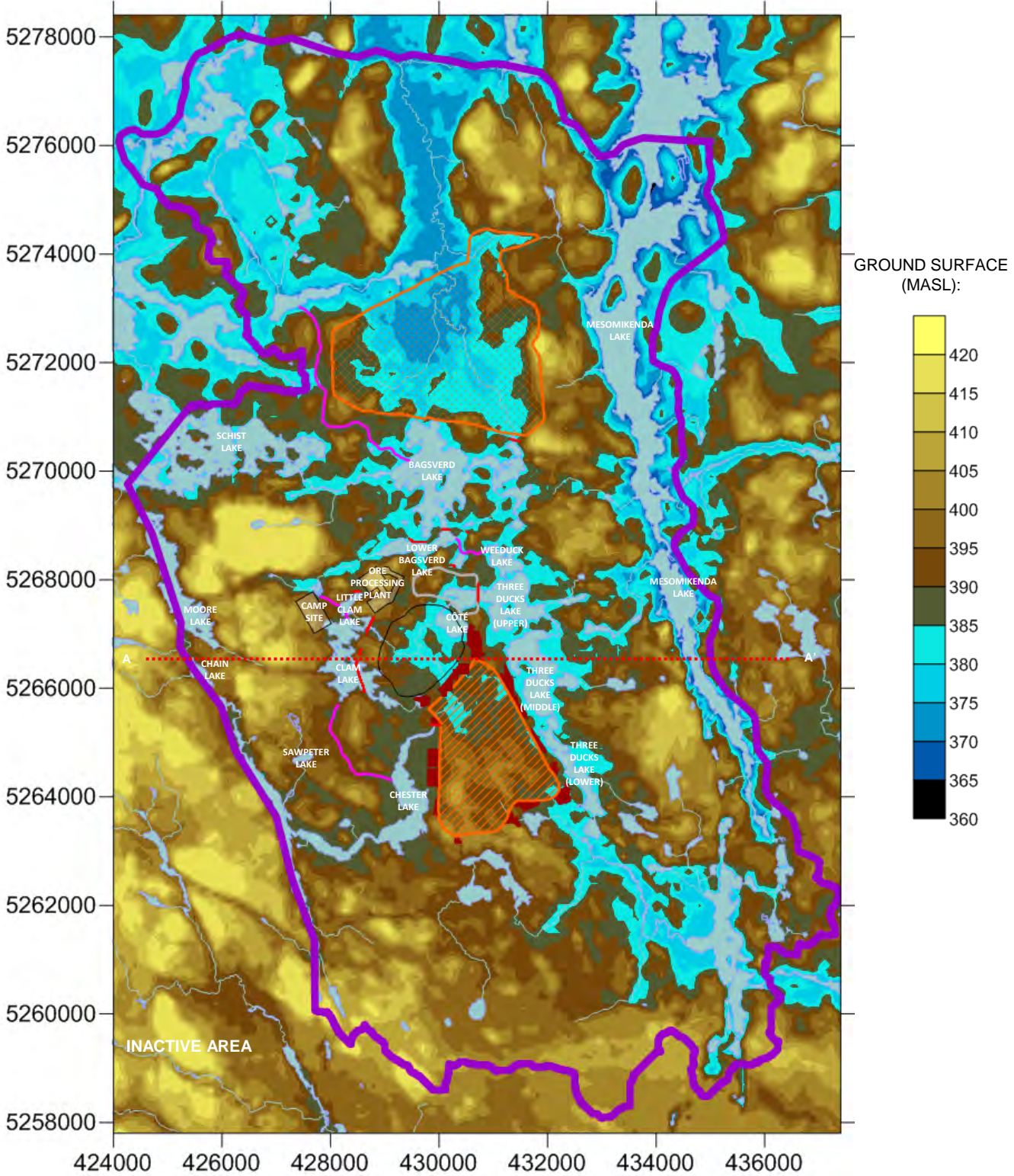


John Petrie, M.Sc., P. Geo.
Principal/Senior Hydrogeologist

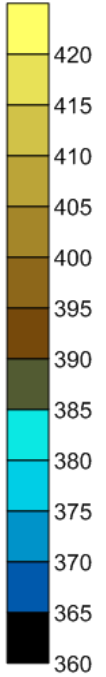
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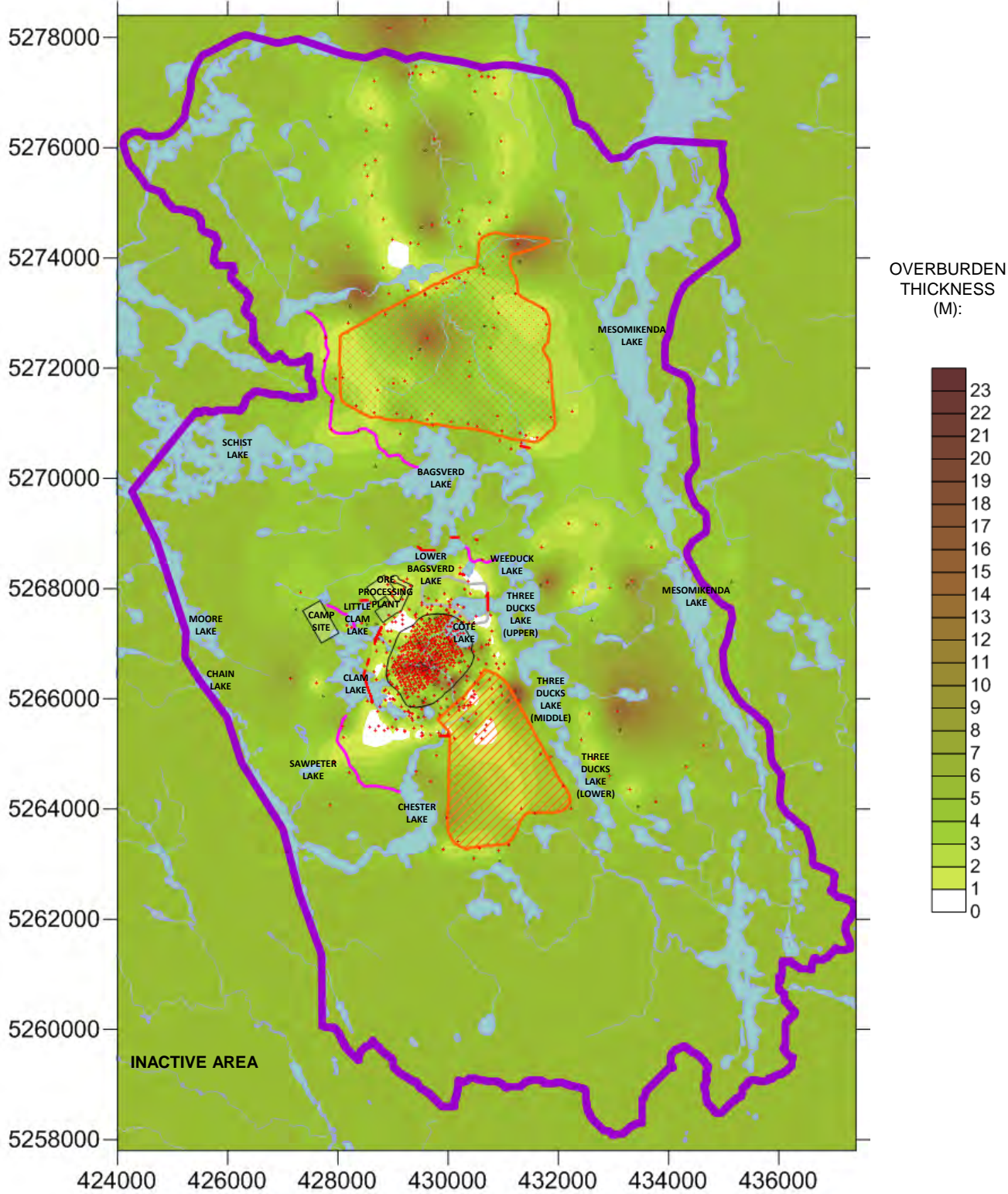


LEGEND	
	MODEL AREA
	SURFACE WATER
	PROPOSED OPEN PIT
	PROPOSED WATERCOURSE REALIGNMENT
	PROPOSED DAMS
	PROPOSED TAILINGS MANAGEMENT FACILITY
	PROPOSED MINE ROCK AREA
	PROPOSED LOW GRADE STOCKPILE
	PROPOSED MRSPs
	CROSS-SECTION A-A'

IAMGOLD CÔTÉ GOLD PROJECT

Golder Associates Ltd.
TORONTO, ONTARIO, CANADA

MODEL DOMAIN AND GROUND SURFACE ELEVATION (masl)		
OCTOBER 2013	PROJECT: 13-1192-0021	FIGURE: 1



OVERBURDEN THICKNESS (M):



LEGEND

- MODEL AREA
- SURFACE WATER
- PROPOSED OPEN PIT
- PROPOSED WATERCOURSE REALIGNMENT
- PROPOSED DAMS
- PROPOSED TAILINGS MANAGEMENT FACILITY
- PROPOSED MINE ROCK AREA
- PROPOSED LOW GRADE STOCKPILE
- BEDROCK PICK

IAMGOLD CÔTÉ GOLD PROJECT

INTERPOLATED OVERBURDEN THICKNESS (m)

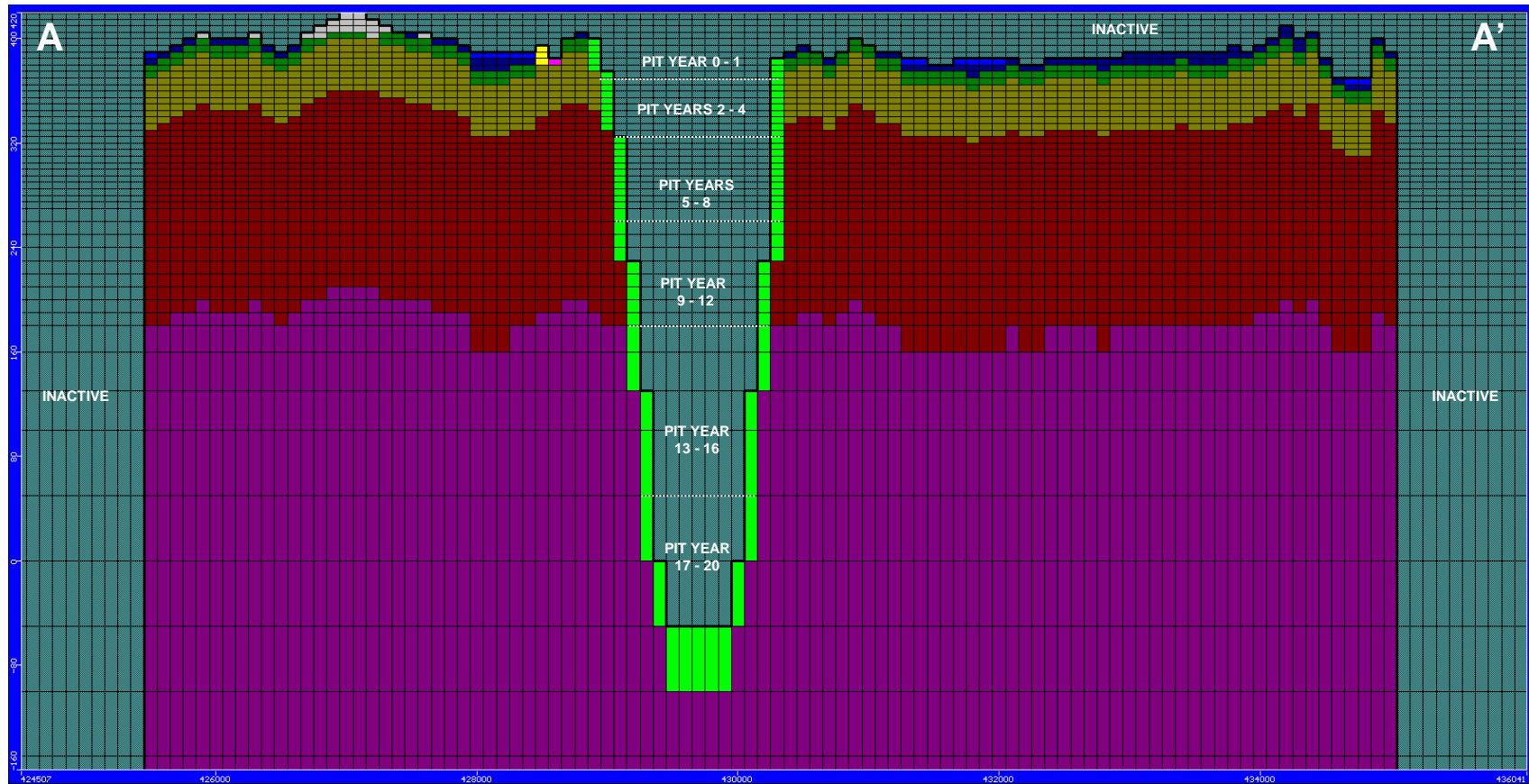


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FIGURE: 2



LEGEND

GEOLOGIC UNIT / K (M/S):

- OVERBURDEN / 9E-6
- SHALLOW W. BR. / 4E-7
- UPPER ROCK / 1E-7
- INTERMEDIATE ROCK / 2E-8
- DEEP ROCK / 1E-9
- DAM / 1E-5

BOUNDARY CONDITION CELLS:

- INACTIVE / NO FLOW
- CONSTANT HEAD
- PIT WALL/FLOOR SEEPAGE FACE DRAIN
- HILLSIDE SEEPS DRAIN
- DAM TOE DRAIN



CÔTÉ GOLD PROJECT

MODEL CROSS-SECTION A-A'

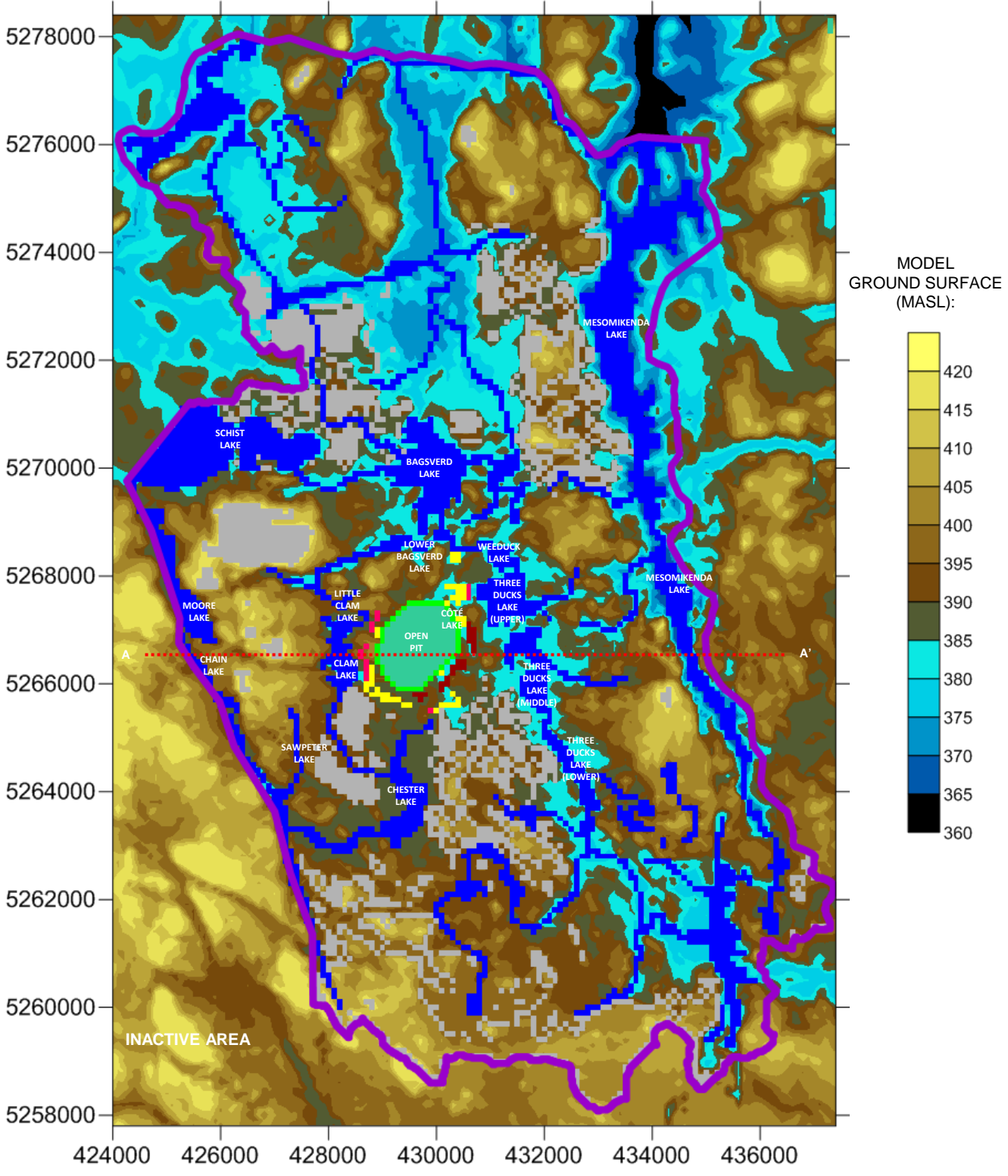


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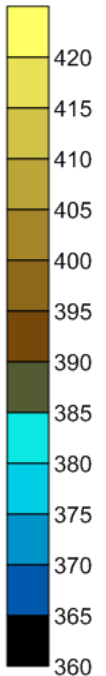
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FIGURE: 3



MODEL GROUND SURFACE (MASL):



LEGEND

- MODEL AREA
- PIT WALL SEEPAGE FACE DRAIN
- HILLSIDE SEEP DRAIN
- LAKE / RIVER CONSTANT HEAD
- REALIGNMENT DRAIN
- DAM TOE DRAIN
- PIT INTERIOR (INACTIVE)
- MRSPs
- - - CROSS-SECTION FIGURE A-A'

NOTES
 BOUNDARY CONDITIONS FOR OPERATIONS PHASE SHOWN.

BOUNDARY CELLS FOR LAKES, RIVERS, HILLSIDE SEEPS, CHANNEL S, TOE DRAINS, MRSPs AND PIT ARE PRESENT IN VARYING LAYERS ACCORDING TO THEIR OUTLET ELEVATION. HOWEVER, FOR ILLUSTRATION PURPOSES, THEY ARE CONSOLIDATED IN A SINGLE PLAN VIEW MAP HERE.

SURFICIAL BOUNDARY CELLS ARE PRESENT ONLY IN THE FIRST ACTIVE CELL THEY APPEAR. LAKES WITH DEEPER BATHYMETRY MAY EXTEND SEVERAL LAYERS.



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MODEL BOUNDARY CONDITIONS



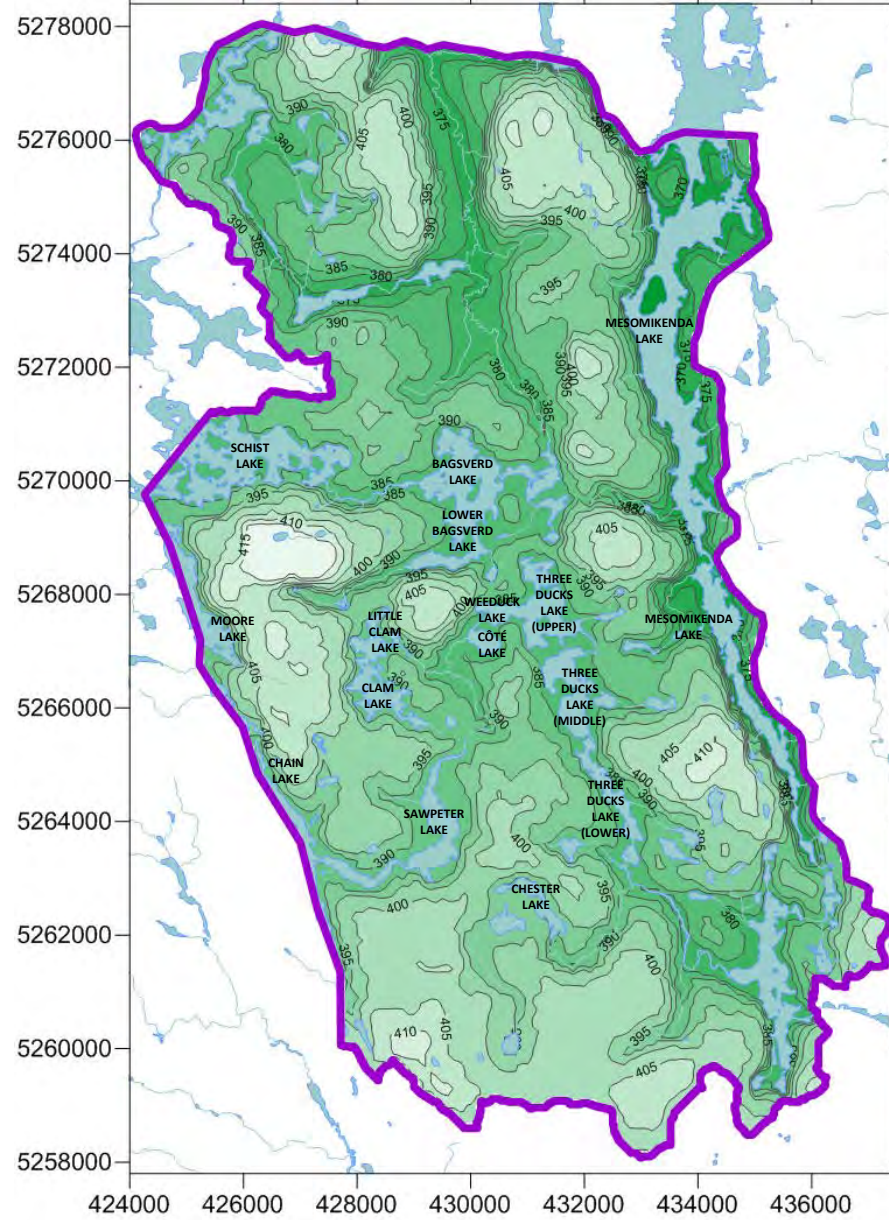
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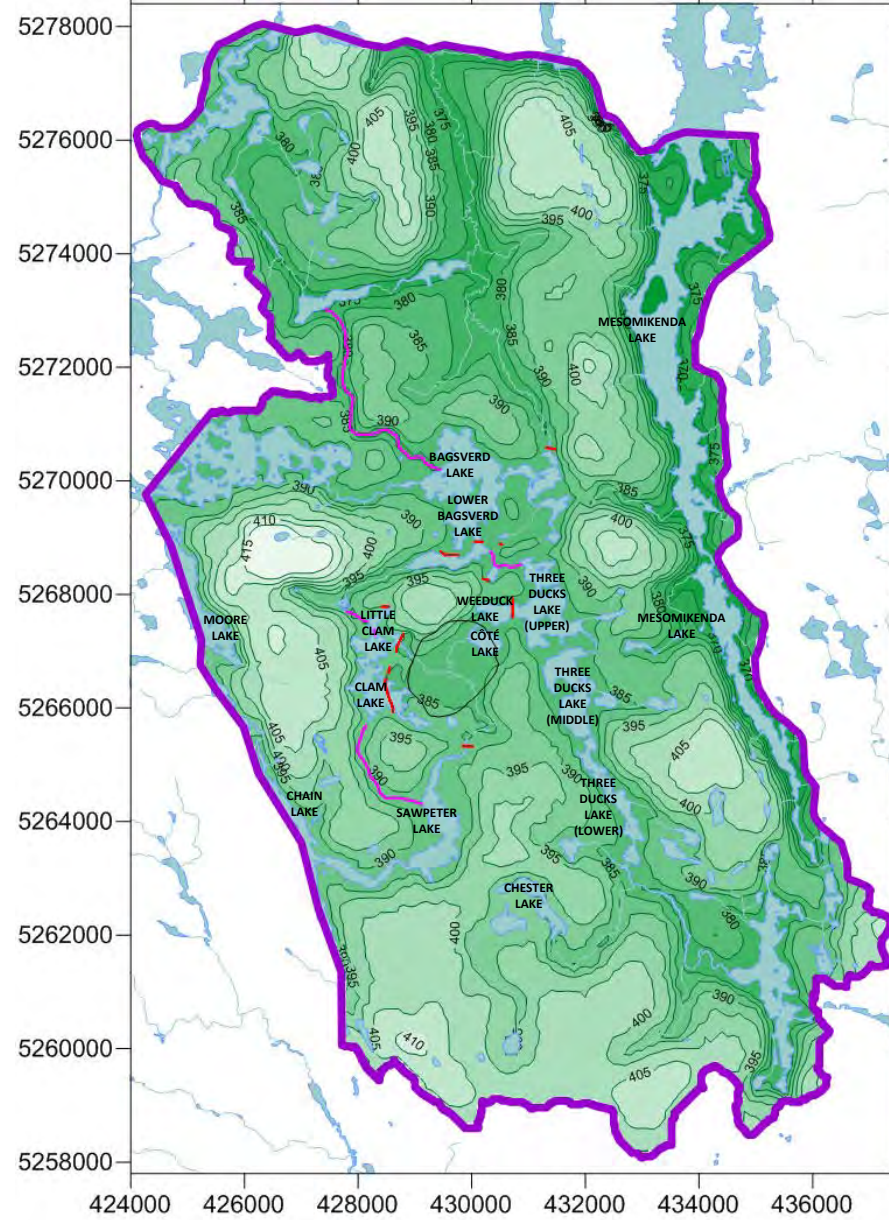
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FIGURE: 4

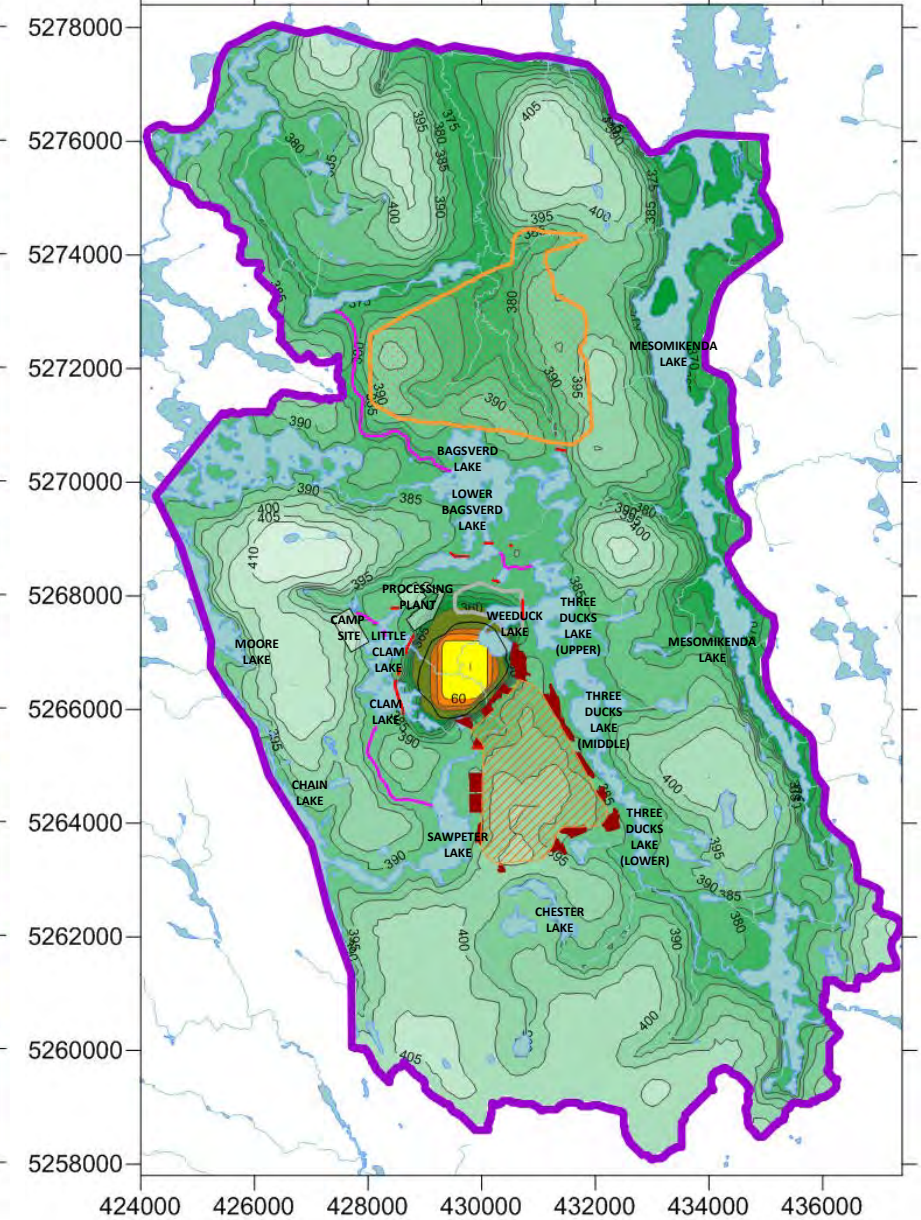
EXISTING PHASE



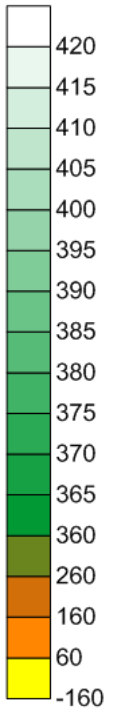
CONSTRUCTION PHASE



OPERATIONAL MINING PHASE



WATER TABLE ELEVATION (masl):



- LEGEND**
- MODEL AREA
 - SURFACE WATER
 - PROPOSED OPEN PIT
 - PROPOSED WATERCOURSE REALIGNMENT
 - PROPOSED DAMS
 - PROPOSED TAILINGS MANAGEMENT FACILITY
 - PROPOSED MINE ROCK AREA
 - PROPOSED LOW GRADE STOCKPILE
 - PROPOSED MRSPs



CÔTÉ GOLD PROJECT



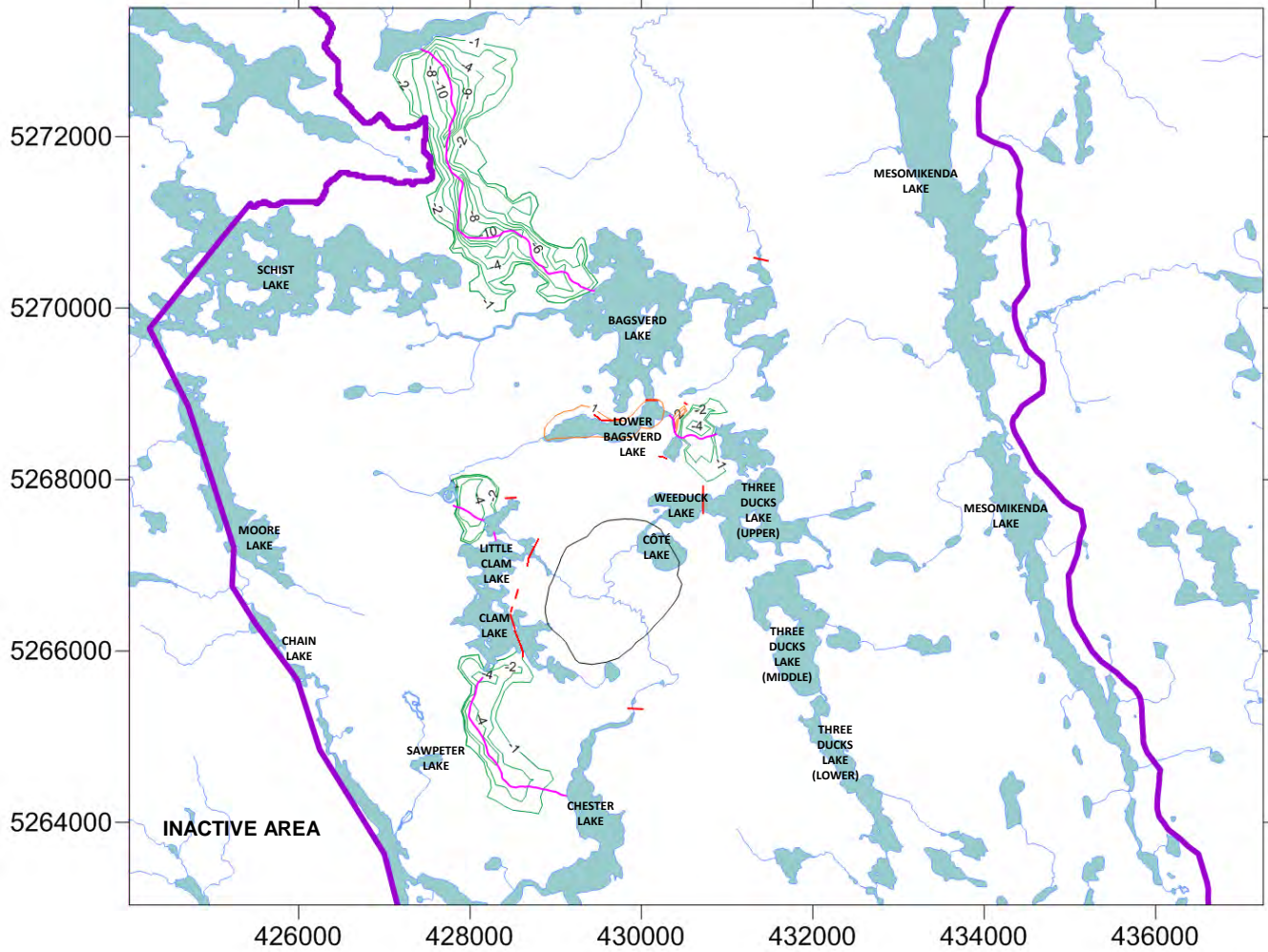
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SIMULATED GROUNDWATER TABLE (masl)

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FIGURE 5



LEGEND

- MODEL AREA
- SURFACE WATER
- PROPOSED OPEN PIT AREA
- PROPOSED WATERCOURSE REALIGNMENT
- PROPOSED DAMS
- WATER LEVEL DECREASE
- WATER LEVEL INCREASE

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SIMULATED GROUNDWATER LEVEL CHANGE FROM EXISTING TO CONSTRUCTION PHASE (m)

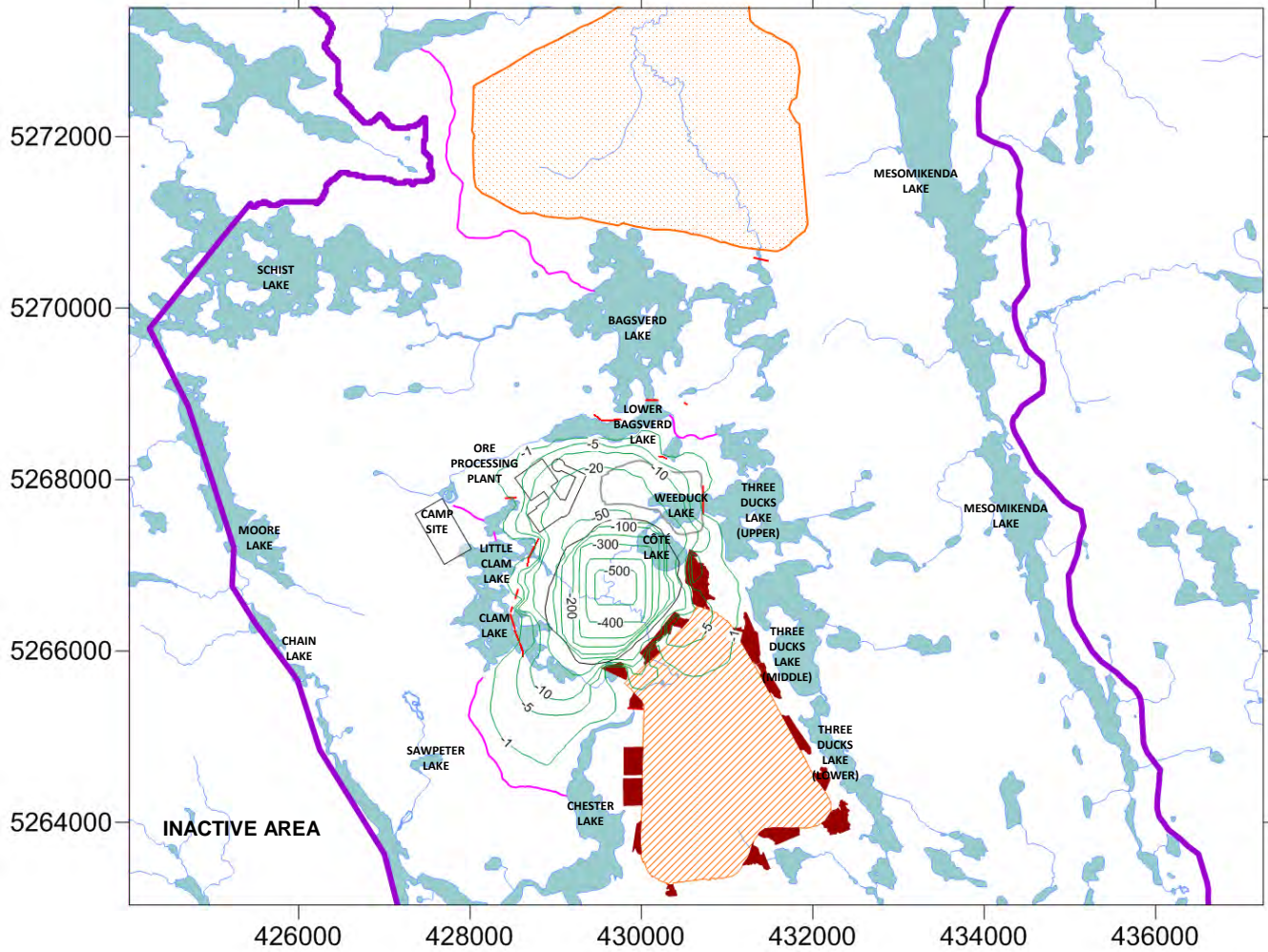


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FIGURE: 6



LEGEND

- MODEL AREA
- SURFACE WATER
- PROPOSED OPEN PIT AREA
- PROPOSED WATERCOURSE REALIGNMENT
- PROPOSED DAMS
- PROPOSED TAILINGS MANAGEMENT FACILITY
- PROPOSED MINE ROCK AREA
- PROPOSED LOW GRADE STOCKPILE
- PROPOSED MRSPs
- WATER LEVEL DECREASE

IAMGOLD CÔTÉ GOLD PROJECT

**SIMULATED GROUNDWATER LEVEL CHANGE FROM
CONSTRUCTION TO OPERATIONS PHASE, ULTIMATE PIT (m)**

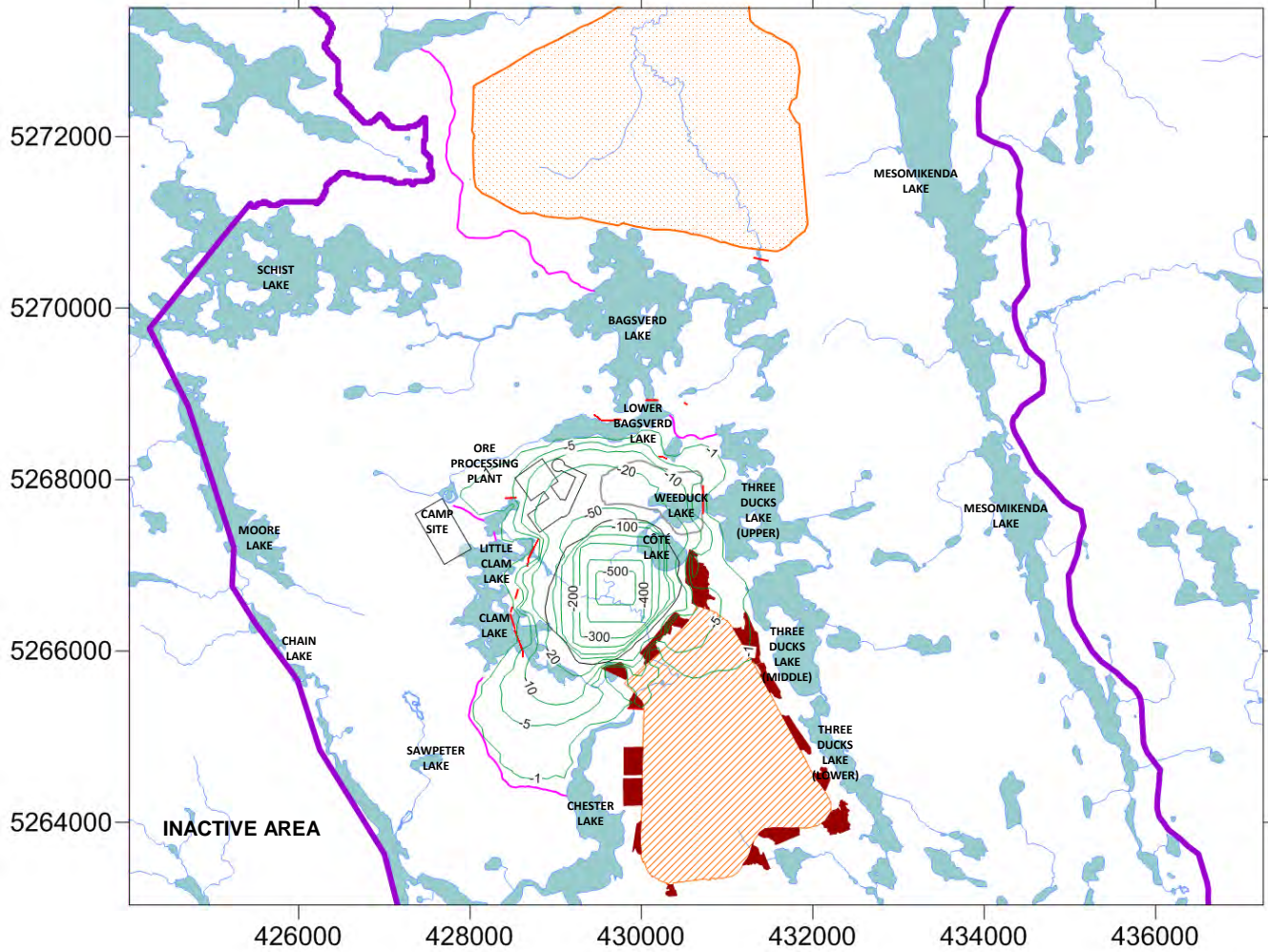
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FIGURE: 7



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LEGEND

- MODEL AREA
- SURFACE WATER
- PROPOSED OPEN PIT AREA
- PROPOSED WATERCOURSE REALIGNMENT
- PROPOSED DAMS
- PROPOSED TAILINGS MANAGEMENT FACILITY
- PROPOSED MINE ROCK AREA
- PROPOSED LOW GRADE STOCKPILE
- PROPOSED MRSPs
- WATER LEVEL DECREASE

IAMGOLD CÔTÉ GOLD PROJECT

SIMULATED GROUNDWATER LEVEL CHANGE FROM CONSTRUCTION TO OPERATIONS PHASE, ULTIMATE PIT (m) – SENSITIVITY ANALYSIS

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FIGURE: 8



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As a global, employee-owned organisation with over 50 years of experience, Golder Associates is driven by our purpose to engineer earth's development while preserving earth's integrity. We deliver solutions that help our clients achieve their sustainable development goals by providing a wide range of independent consulting, design and construction services in our specialist areas of earth, environment and energy.

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