

**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
→ Coarse Filter placement	north 0+355 to 0+370	Almost finished and need to be approved
→ Coarse Filter placement	south 0+205 to 0+150	Placement meets specs.
	north 0+205 to 0+190	still need to be approved.
→ West abutment cleaning	0+150 to 0+125	Bedrock reached: no Frozen material at the foundation.
→ West abutment bathymetry	0+150 to 0+132	Needs to be completed to 0+125

**SAFE AND SAFETY REMARKS**

A lot of co-activity, with many haul trucks transporting coarse filter material. Be aware of the surroundings.

Issued by :

*Jonathan Leblanc*  
Signature

2018-08-13.

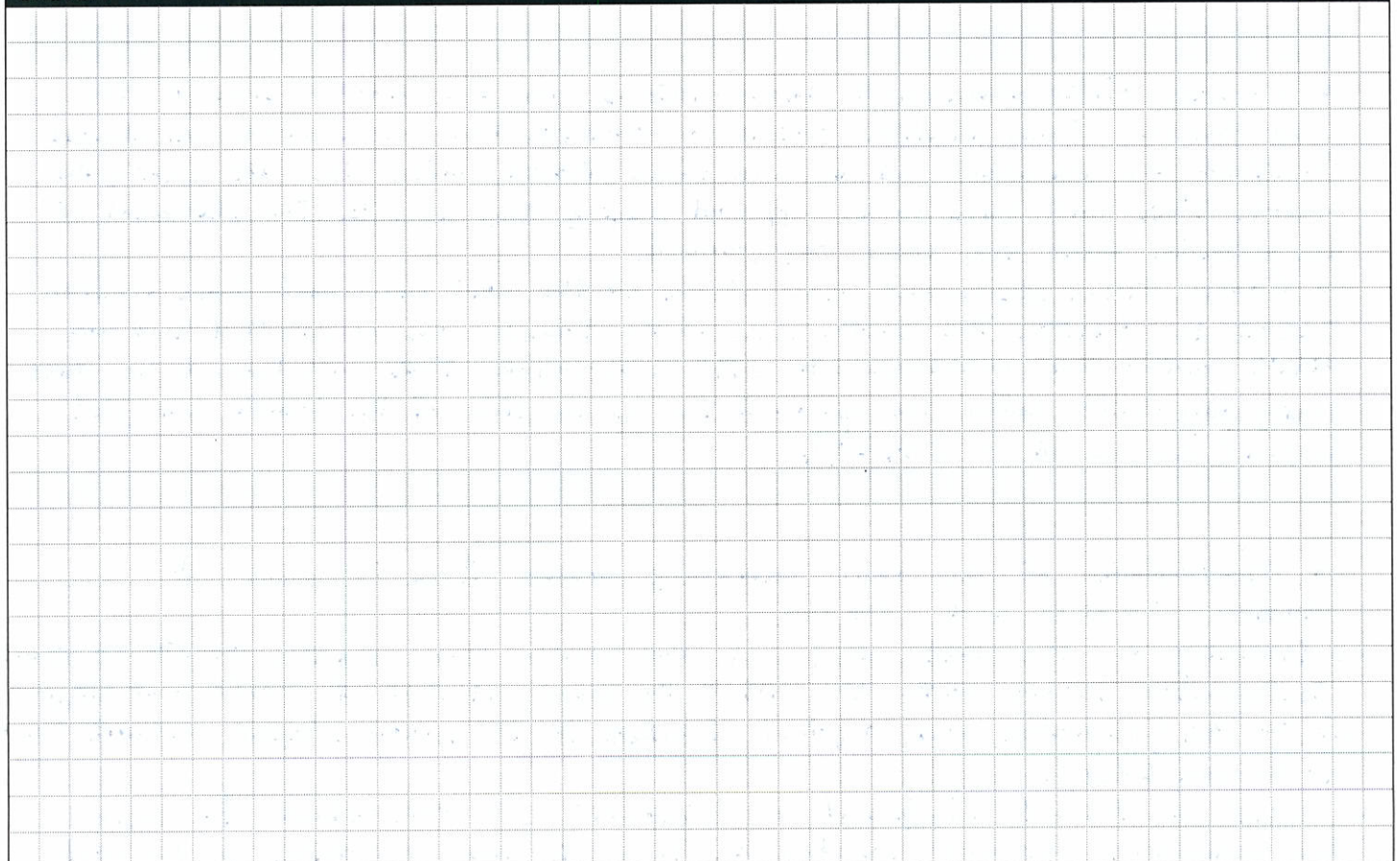
Date

Verified by :

Signature

Date

**SKETCH**







**SNC-LAVALIN**

**SITE REPORT**  
(Detailed)

20180813-DS-SR

Document number

Visit date 13/08/2018	Time (Start/End) 6AM-6PM	Project No. 658309	Prepared by A. Arbuzov
Project WTD construction		Client Agnico Eagle	
Consultant SNC-Lavalin		Contractor KCG	

Weather : ☒ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☐ Light ☒ Moderate ☐ Strong,

Temperature : 3 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☒ Yes ☐ No Inspection report or other :

Approval forms (2)

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Inspection at the east abutment to see the progress of excavation (by updating survey points and taking new points). - See appendix. There were three sectors where fractured bedrock was seen (around st. ~0+745). The contractor is confident that the sector can be entirely excavated down to bedrock (see pictures).
- Inspection of coarse filter placement at st. 0+355 - 0+375 (north side). Additional cleaning was done at the trench and some spot checks were taken (all matching with bathymetry). The fine filter was also placed at the bottom of the trench up to el. 148.0 m (as per procedure communicated by P.E. McDonald).
- the west abutment foundation was approved up to st. 0+130 (see approval form)

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

- | No | Subject  | Given to |
|----|--|----------|
| -  | The QC noticed that the operator was placing fine filter material without placing hishove (at the bottom of the trench (for the filter base at 148.0 m - as per construction method communicated by P.E. McDonald). This was communicated to the contractor's representative by the QC.  |          |
| -  | It was noticed that the excavation done at the west abutment (Ester) was not filled with anything (as per drawings - see section E-E aug. 0007). AEM decided to place coarse filter instead of rock fill since the thickness to be filled was of 0.5 m (drawings was 1.0 m but construction platforms were reduced from 154.0 to 153.5 m). |          |



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
• Fine filter placement (base at bottom of the trench to 148.0 m)	0+355 to 0+375	• not well placement method, but corrected shortly.
• West abutment cleaning foundation	0+150 to 0+180	• Backhoe reached at all times
• Coarse filter placement and reprofiling.	~ 0+150 to 0+205	• Approval form - well placed and as built verified.

## SAFE AND SAFETY REMARKS

Working close to water and near operators (for final cleanup) - keep your distance.

Issued by :

*[Signature]*

Signature

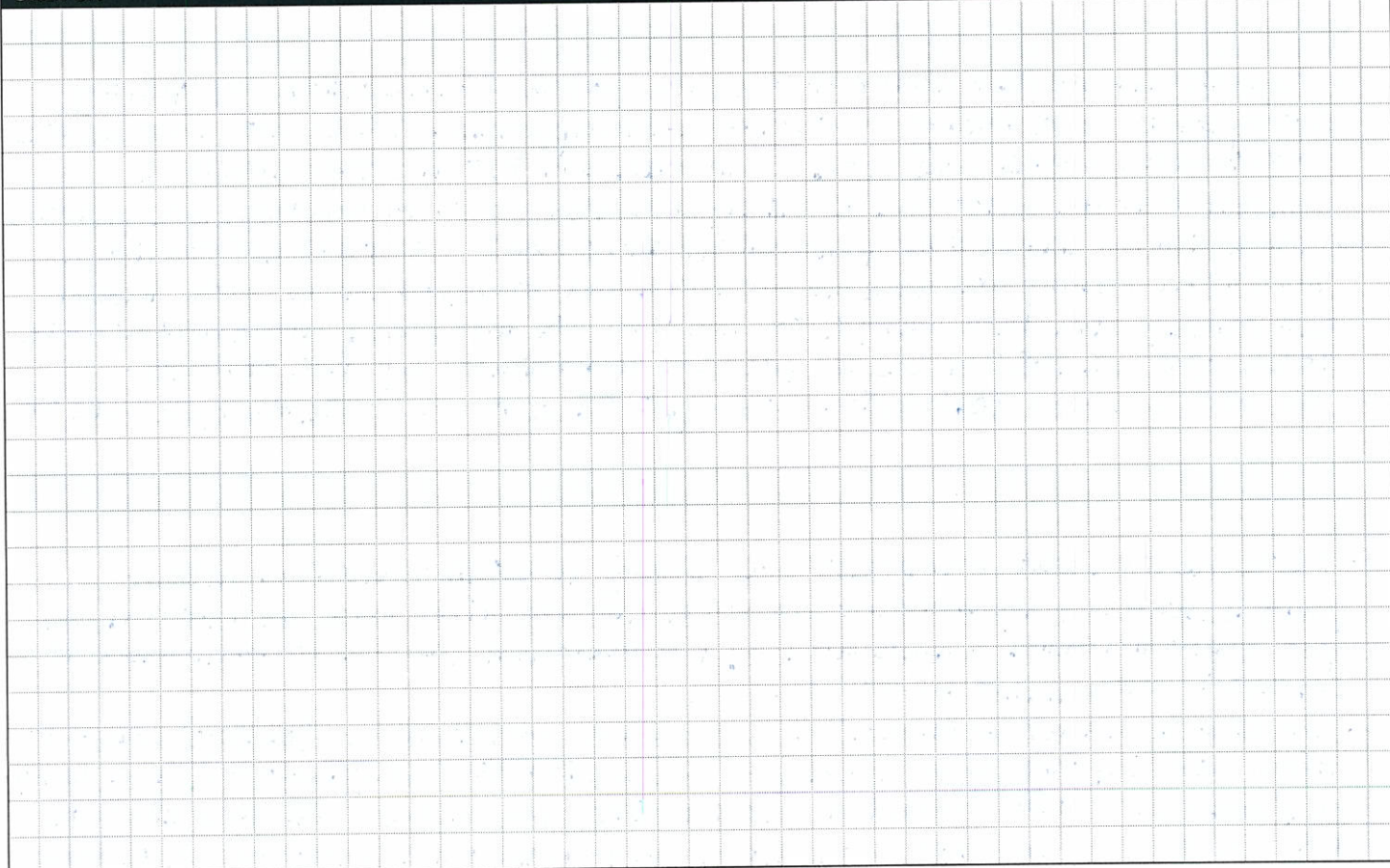
Date

Verified by :

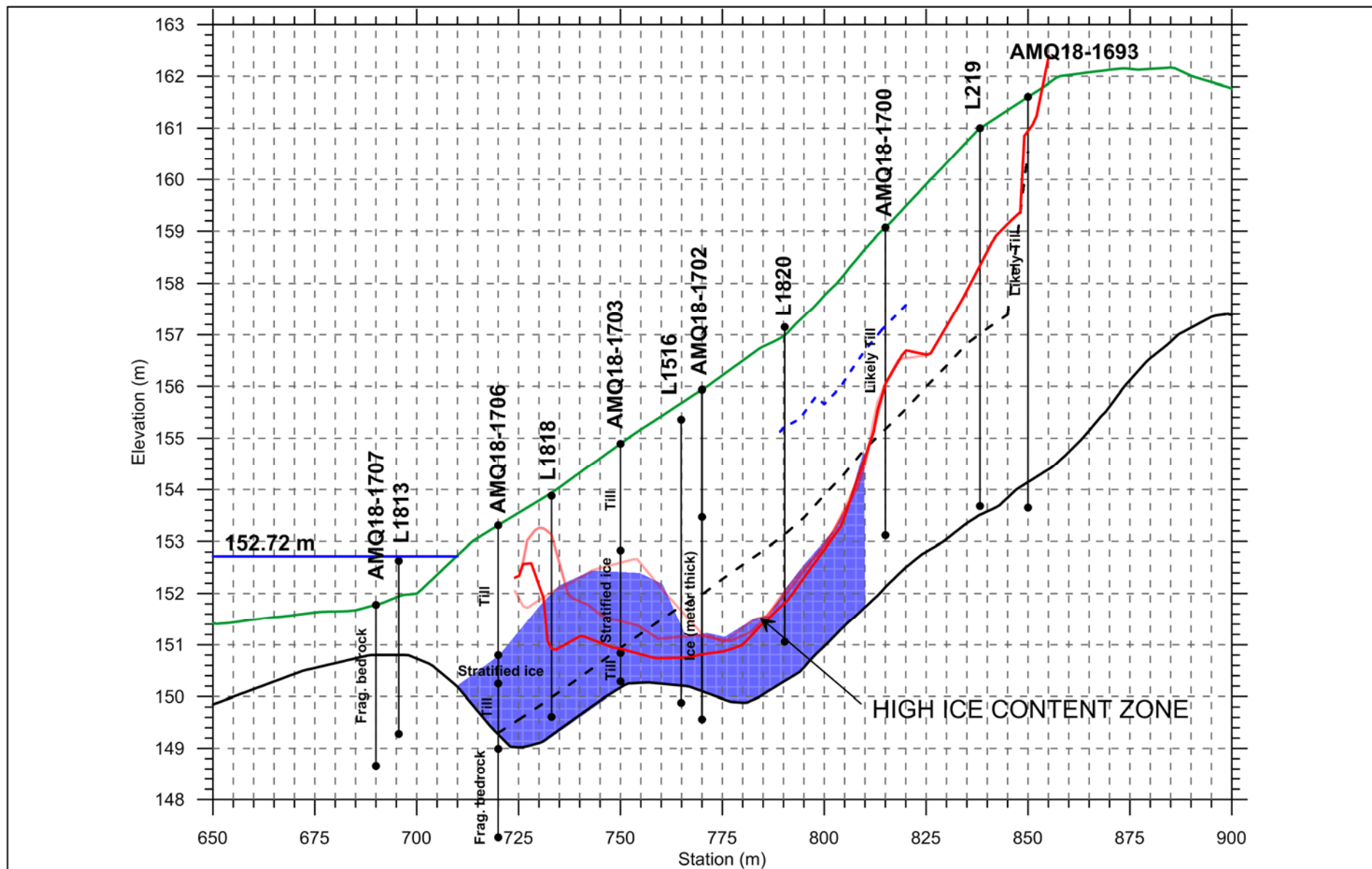
Signature

Date

## SKETCH







#### Legend

- TN
- Excavation depth (4 m)
- Bedrock
- Water level (2018-08-09)
- Observed High ice content zone surface
- Excavation survey 20180810
- Excavation survey 20180811
- Excavation survey 20180812

Prepared by



Prepared for



#### Whale Tail Dike Construction

#### Daily excavation at the East Abutment

Dessin.	Scale	Project #
Verif.	Date	Figure #
	2018-08-11	658309





**SNC • LAVALIN**

**SITE REPORT**  
(Detailed)

20180814-NS-SR

Document number

14/08/2018 6PM-6AM 658 309 J. Leblanc  
Visit date Time (Start/End) Project No. Prepared by

WTD Construction Agnico Eagle  
Project Client

SNC-Lavalin KCG  
Consultant Contractor

Weather : ☐ Sunny ☒ Cloudy ☒ Rain ☐ Storm ☐ Snow ☐ Glaze  
Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong, Temperature : ~ 3 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☒ Yes ☐ No Inspection report or other :  
Approval Forms

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- From station 0+355 to 0+375, observations of the Fine Filter placement until elevation 148m is reached in the Key trench.
- Observation and approval of the coarse Filter placement from station 0+355 to 0+375 (measurements with the surveyor).
- A bathymetry of the center portion of the Key trench, from 0+355 to 0+375 took place after the Fine Filter placement at 148m and before coarse Filter placement at the south side of the trench.
- Footprint approval of the west abutment from 0+060 to 0+130. Most of the clean-up was completed during day shift. Some corrections were asked and corrected by the excavator.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

- | No | Subject   | Given to |
|----|---|----------|
| →  | Excavation at the east abutment. Bedrock is observed from station ~ 0+725 to ~ 0+770.   |          |
| →  | Coarse Filter placement at the west abutment, from station 0+150 to ~ 0+100. It will need to be approved since the GPS equipped bucket didn't have the necessary data uploaded to be able to profile the slope. |          |
| →  | Survey of the west abutment bedrock surface after the approval.   |          |
| →  | Water level survey : downstream = 152.70m ; upstream = 152.70m.   |          |
| →  | Fine Filter placement observation until station 0+157 in the west abutment.   |          |



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
Coarse filter placement	0+355 to 0+375	See approval form.
Footprint approval of the west abutment (bedrock surface needed)	0+060 to 0+130	See approval form.
Coarse filter placement	0+150 to ~0+100	Placement respects the specs. requirements, Needs to be approved after slope (photo)

## SAFE AND SAFETY REMARKS

Narrow access road and a lot of co-activity in every directions. Needs to be really careful when driving at the site.

Issued by :

Jonathan Leblanc  
Signature

2018-08-14.

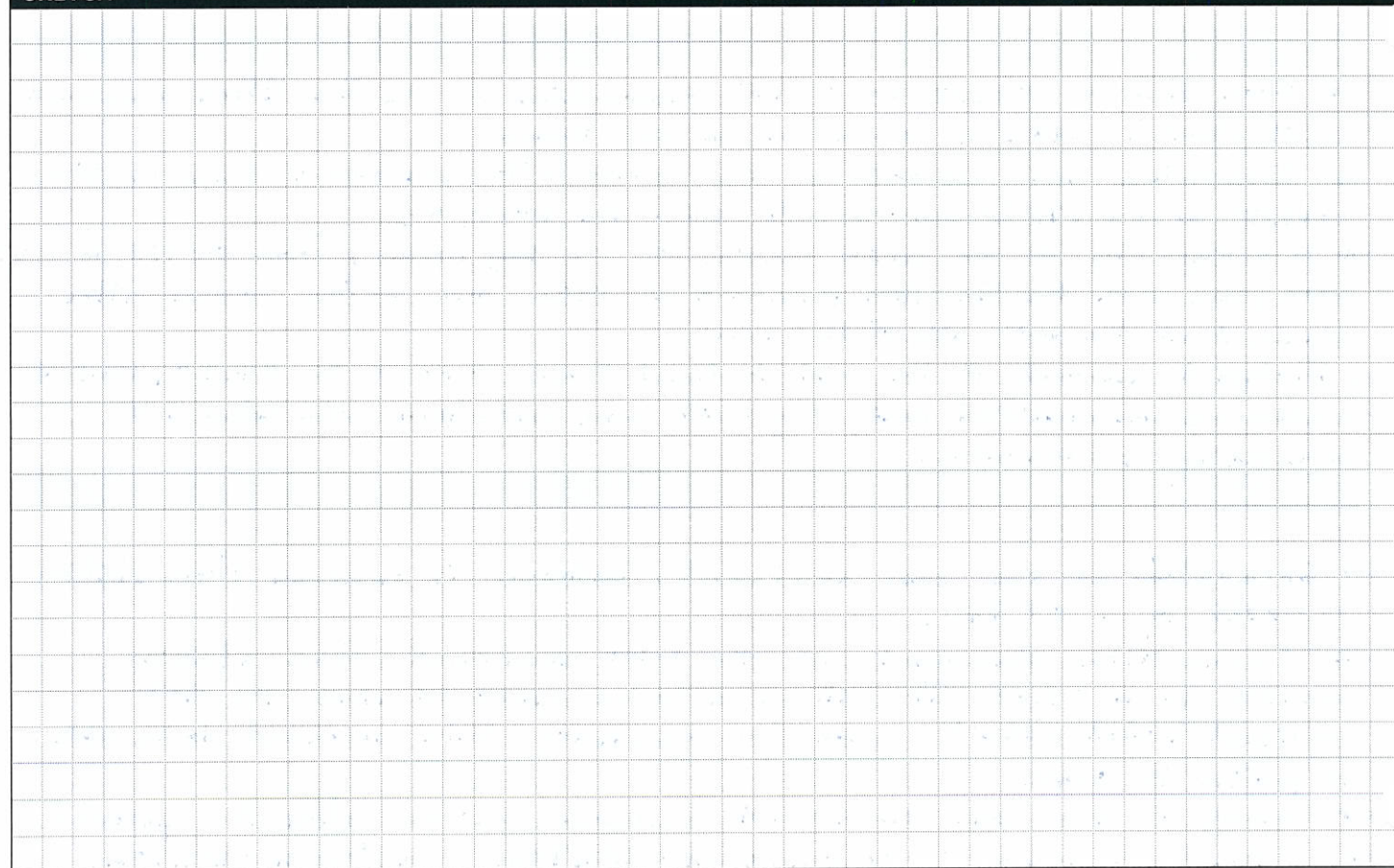
Date

Verified by :

Signature

Date

## SKETCH







SNC • LAVALIN

**SITE REPORT**  
(Detailed)

20180814-DS-SR

Document number

14/08/2018

6AM-6PM

658309

A. Arbaliza

Visit date

Time (Start/End)

Project No.

Prepared by

WTD Construction

Agnico Eagle

Project

Client

SNC-Lavalin

KCG

Consultant

Contractor

Weather :

☐ Sunny

☒ Cloudy

☐ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None

☒ Light

☐ Moderate

☐ Strong,

gusts

Temperature : 7 °C

Comments :

Appendix :

☒ Yes

☐ No

Pictures

☒ Yes

☐ No

Inspection report or other :

Approval form

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Inspection of the excavation at the east abutment. Survey was not updated.
- Inspection of final cleaning between st. 0+375 and 0+585. First bathymetry did not work and a second one was done but no bathymetry was sent during the day shift. If a bathymetry is sent tomorrow, there won't be any QA to approve (crew change).
- Rough cleaning of the key trench up to 0+620. Some spot checks were taken to see if the foundation thawed (see below). It seems that the problem is more around st. 0+580 (2m difference from theoretical bedrock).
- Placement of fine and coarse filter according to specs.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No	Subject	Given to



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
Coarse filter placement	0+100 to 0+085	According to specs
Fine filter placement	0+116 to 0+354 (excluding the others)	According to specs
East abutment excavation	~0+075	

## SAFE AND SAFETY REMARKS

working near water - keep yard distance.

Issued by :



Signature

14/08/2018.

Date

Verified by :

Signature

Date

## SKETCH

thaw Foundation advancement :

Date	0+580	0+620	0+635	0+650
12/08/2018	—	149.79	149.88	149.66
13/08/2018	149.83	149.74	149.76	149.61
14/08/2018	149.75	149.63	149.69	149.60
Theoretical bedrock (Approximate)	147.60	149.00	149.3	150.0





SNC • LAVALIN

SITE REPORT  
(Detailed)

20180815-NS-SR

Document number

15/08/2018

Visit date

6PM-6AM

Time (Start/End)

658 309

Project No.

J. Leblanc

Prepared by

WTD CONSTRUCTION

Project

Agnico Eagle

Client

SNC-Lavalin

Consultant

KCG

Contractor

Weather :

☐ Sunny☒ Cloudy☐ Rain☐ Storm☐ Snow☐ Glaze

Wind :

☐ None

gusts

☒ Light☐ Moderate☐ Strong,

Temperature : ~ 8 °C

Comments :

QA crew change during next day shift (15/08/2018).

Appendix :

☐ Yes☒ No

Pictures

☒ Yes☐ No

Inspection report or other :

## ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- Key trench clean-up observations, from station 0+395 to 0+415. First clean-up completed on north side which is ready for rockfill slope adjustments. Fractured zone in bedrock is located more towards the north side of the trench. Better quality bedrock has been found back at station ~ 0+411.
- Fine filter placement observations in the key trench. The placement meets the specs requirements and stopped at 0+370 (5m below the coarse filter acceptance).
- lakebed mass excavation at the south side until station 0+630. A good quantity of sediments was excavated.

## SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

- Bathymetry of the bedrock foundation, from station 0+375 to 0+395 was received during night without the spot check elevation that have been taken during night. The Approval of this section of the key trench can be done in the beginning of the ~~night~~ day shift, if the bathymetry fit the spot checks.
- Trunk observations at the end of the west abutment at station 0+075 to get rid of a bedrock outcrop with an elevation higher than 157m in the slurry wall. Even if this excavation is within bedrock, this portion will be approved to confirm that the new exposed bedrock is clean.
- Water level survey : Downstream: 152.70m ; Upstream = 152.70m.



**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
Key trench clean-up	0+395 to 0+415	Ready for rockfill profiling and final clean-up
Foundation on bedrock	0+375 to 0+395	Bathymetry received and ready for approval
Five filter placement	Reached 0+370	Meets specs requirements

**SAFE AND SAFETY REMARKS**

Co-activity on the dike. Communication is very important.

Issued by :

*Jonathan Leblanc*

Signature

2018-08-15

Date

Verified by :

Signature

Date

**SKETCH**



**20180816-NS-SR**

Document number

2018-08-16 19:30/6:00 658309 M. D. - SÉZÉQUEL  
Visit date Time (Start/End) Project No. Prepared by  
WTD CONSTRUCTION Agnico Eagle  
Project Client  
SNC-Lavalin KCG  
Consultant Contractor

Weather : ☐ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☐ Light ☒ Moderate ☐ Strong,

Temperature : 5 °C

Comments : FIRST NIGHT SHIFT AFTER CREW CHANGE, STARTED LATE DUE TO TRANSPORTATION DELAYS

Appendix : ☐ Yes ☒ No Pictures ☒ Yes ☐ No Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)**

- EAST ABUTMENT EXCAVATION WITH SHOVEL: ONGOING. THE EXCAVATOR HAS BEEN WORKING BETWEEN STATIONS 0+750 to 0+800 APPROXIMATELY. THAWED MATERIAL WAS NOT STOCKPILED BUT PUT DIRECTLY IN TRUCKS.
- COARSE FILTER HAS BEEN PLACED ON THE DOWNSTREAM SIDE (BELOW EL. 153.5) AT STATION 0+375 to 0+395 AND PROFILED. IT NEEDS TO BE CONFIRMED BY GPS COORDINATES (SHOVEL + SURVEYOR), APPROVAL FORM TO FOLLOW DURING DAY SHIFT.
- COARSE FILTER ON THE UPSTREAM SIDE HAS BEEN REPROFILED AT ST. 0+325 to 0+395 : TO BE CONFIRMED BY SURVEYOR/QA/QC.
- KEY TRENCH HAS BEEN CLEANED BETWEEN 0+380 to 0+435 BUT THERE IS STILL SOME CLEANING LEFT TO DO. TO BE APPROVED BY QA/QC WITH BATHYMETRY.

**SITE GUIDELINES (guidelines, memos, modification proposals, etc.)**

- | No | Subject  | Given to |
|----|--|----------|
| →  | COARSE FILTER HAS BEEN PLACED UP TO EL. 157.0m ON THE UPSTREAM SIDE OF THE DIKE AT THE WEST ABUTMENT (STATION 0+090 to 0+139). DAY SHIFT QA/QC SHOULD CONFIRM WITH THE CLIENT REPRESENTATIVE AND CONTRACTOR THE GEOMETRY OF THE DIKE AT THAT LOCATION (DOES NOT SEEM TO COMPLY WITH SECTION D-D WEST ABUTMENT AT STA 0+120). |          |
| →  | INSPECTION OF QC REPRESENTATIVE TAKING A SAMPLE OF COARSE FILTER ST. 0+130 UPSTREAM SIDE ON A PAD MADE BY THE EXCAVATOR OPERATOR.  |          |



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
→ EAST ABUTMENT EXCAVATION	0+750 TO 0+800	Ø
→ COARSE FILTER PLACEMENT	0+395 TO 0+395 (North)	NEED TO BE APPROVED
" PROFILE CORRECTION	" (South)	"
→ KEY TRENCH CLEANING	0+380 TO 0+435	"
→ COARSE FILTER SAMPLING BY QC	0+130 UPSTREAM	OK ACCORDING TO THE SPECS

# SAFE AND SAFETY REMARKS

NIGHTS ARE GETTING DARKER: BE VISIBLE + GOOD RADIO COMMUNICATION

Issued by :

*[Signature]*

Signature

2018-08-16

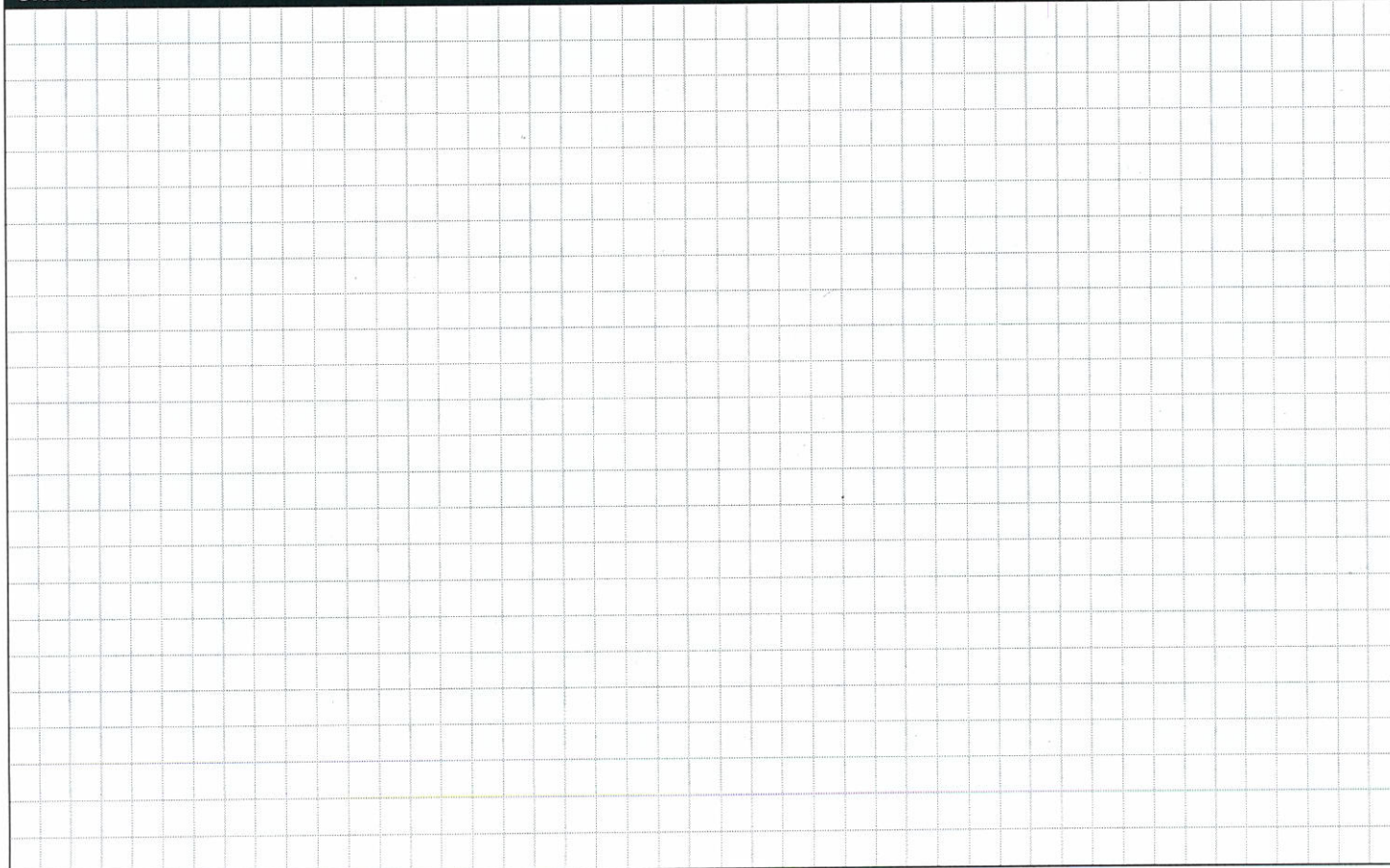
Date

Verified by :

Signature

Date

# SKETCH







SNC • LAVALIN

# SITE REPORT (Detailed)

Document number

Visit date: 16-08-2018 Time (Start/End): 6AM-6PM Project No.: 658309 Prepared by: Tezera Fiwu Azmald

Project: WTD construction Client: Agnico Eagle

Consultant: SNC-Lavalin Contractor: KCG

Weather : ☒ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☐ Light ☒ Moderate ☐ Strong,

Temperature : -5 °C

Comments :

Appendix : ☐ Yes ☐ No Pictures ☐ Yes ☐ No

Inspection report or other :

## ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- Inspection of excavation in the east abutment area. Checked if bedrock has been reached at stations between station 0+39 to 0+72, did spot checks and approved that bedrock has been reached. The bedrock is highly fractured with <sup>many</sup> vertical fractures from north-east to southwest. (See approval form)
- observed fine filter placement from station 0+395 progressing east
- Observed coarse filter placement in west abutment area between approximate stations 0+139 to 0+170

## SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

- | No | Subject  | Given to |
|----|--|----------|
| →  | observed trench bottom cleanup between stations 0+415 and 0+435, and approved the clean-up. (Refer to approval form) |          |
| →  | observed trench bottom cleanup between stations 0+435 and 0+455.   |          |
|    |  |          |
|    |  |          |
|    |  |          |
|    |  |          |

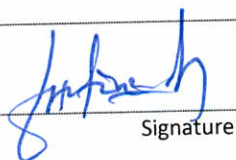


**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
→ Foundation (bedrock inspection)	east abutment b/n stations 0+39 to 0+42	Approved
→ Fine filter placement	0+395 to 0+405	in progress
→ Coarse filter "	0+139 to 0+170	Approved
→ Trench bottom cleaning	0+415 to 0+435	Approved
→ "	0+435 to 0+450	in progress

**SAFE AND SAFETY REMARKS**

Issued by :

  
Signature

Aug. 16, 2018  
Date

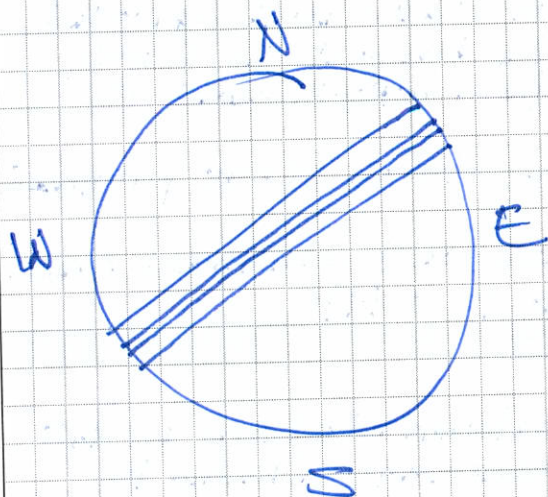
Verified by :

Signature

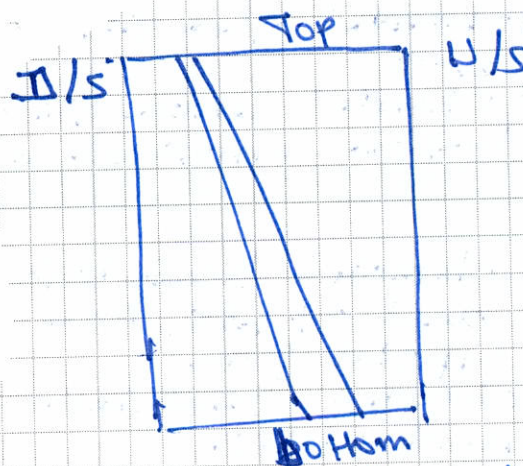
Date

**SKETCH**

Crack orientation (approximate and general) in the bedrock at the east abutment area.



(a) Orientation of cracks in plan view



(b) orientation of cracks in profile (vertical) direction



20180817-NS-SR

Document number

2018-08-17 18:00/6:00 658309 M.O.-JÉZÉQUEL  
Visit date Time (Start/End) Project No. Prepared by  
WTD CONSTRUCTION Agnico Eagle  
Project Client  
SNC-Lavalin KCG  
Consultant Contractor

Weather : ☒ Sunny ☐ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong,

Temperature : 10 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☒ Yes ☐ No

Inspection report or other :

Approval Forms

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

→ EAST ABUTMENT: INSPECTION OF ROCKFILL PLACEMENT ON THE UPSTREAM SIDE AGAINST NATURAL GROUND BETWEEN ST. 0+736 TO 0+768 UP TO AN ELEVATION OF 155.0 m. ON THE DOWNSTREAM SIDE (SAME STATIONS: 0+736 TO 0+768), COARSE FILTER HAS BEEN PLACED AGAINST NATURAL GROUND. IT IS MENTIONED IN DRAWING 000R, NOTE 13 THAT IT IS NOT NECESSARY TO PLACE COARSE FILTER AGAINST FROZEN SOIL BETWEEN ST. 0+730 TO 0+838 APPROXIMATELY. HOWEVER, THE CONTRACTOR PROCEEDED WITH COARSE FILTER PLACEMENT ANYWAY TO PREVENT THE SLOPES OF OVERBURDEN FROM THAWING. VISUAL INSPECTION OF ROCKFILL GRADATION: MEETS THE SPECS.  
→ COARSE FILTER PLACEMENT AGAINST ROCKFILL ON BOTH SIDES (NORTH AND SOUTH) BETWEEN ST. 0+395 TO 0+415. NO EXCESS HANDLING OF THE MATERIAL.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No Subject Given to  
→ FINE FILTER PLACEMENT BETWEEN COARSE FILTER IN THE LAKE BETWEEN ST. 0+390 TO 0+395  
GOOD TECHNIQUE USED BY EXCAVATOR OPERATOR IN ORDER TO LIMIT SEGREGATION OF THE MATERIAL (FINE FILTER WAS GENTLY DEPOSITED AND NOT HANDLED EXCESSIVELY).  
→ IN THE MIDDLE SECTION +/- 2.5m FROM THE CENTERLINE, FINE FILTER MATERIAL HAS BEEN PLACED BETWEEN ST. 0+230 TO 0+260 FROM AN ELEVATION OF 155.0 m UP TO EL. 157.0m. THE LIFT THICKNESS IS > 1.5m WHICH IS THE UPPER LIMIT ACCORDING TO THE TECHNICAL SPECS (3.6.3.4)  
→ KEY TRENCH CLEANING STARTED FROM 0+435 ON THE SOUTH SIDE TOWARDS THE END OF THE SHIFT (ONGOING)



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
→ COARSE FILTER PLACEMENT	0+415 TO 0+435	MEETS THE TECHNICAL SPECS
→ FINE FILTER PLACEMENT	0+390 TO 0+395	"
	0+230 TO 0+260	LIFT THICKNESS IS 2.0 m WHICH IS 0.5 m > MAX LIFT THICKNESS
→ ROCKFILL + COARSE FILTER PLACEMENT	0+736 TO 0+768	ROCKFILL GRADATION + LINES (SLOPE) MEET THE SPECS
→ KEY TRENCH CLEANING	FROM 0+435	ONGOING

## SAFE AND SAFETY REMARKS

LOTS OF CO-ACTIVITIES ON THE DIKE: PAY ATTENTION TO HAULING TRUCKS AND EXCAVATORS.

Issued by :



Signature

2018-08-17

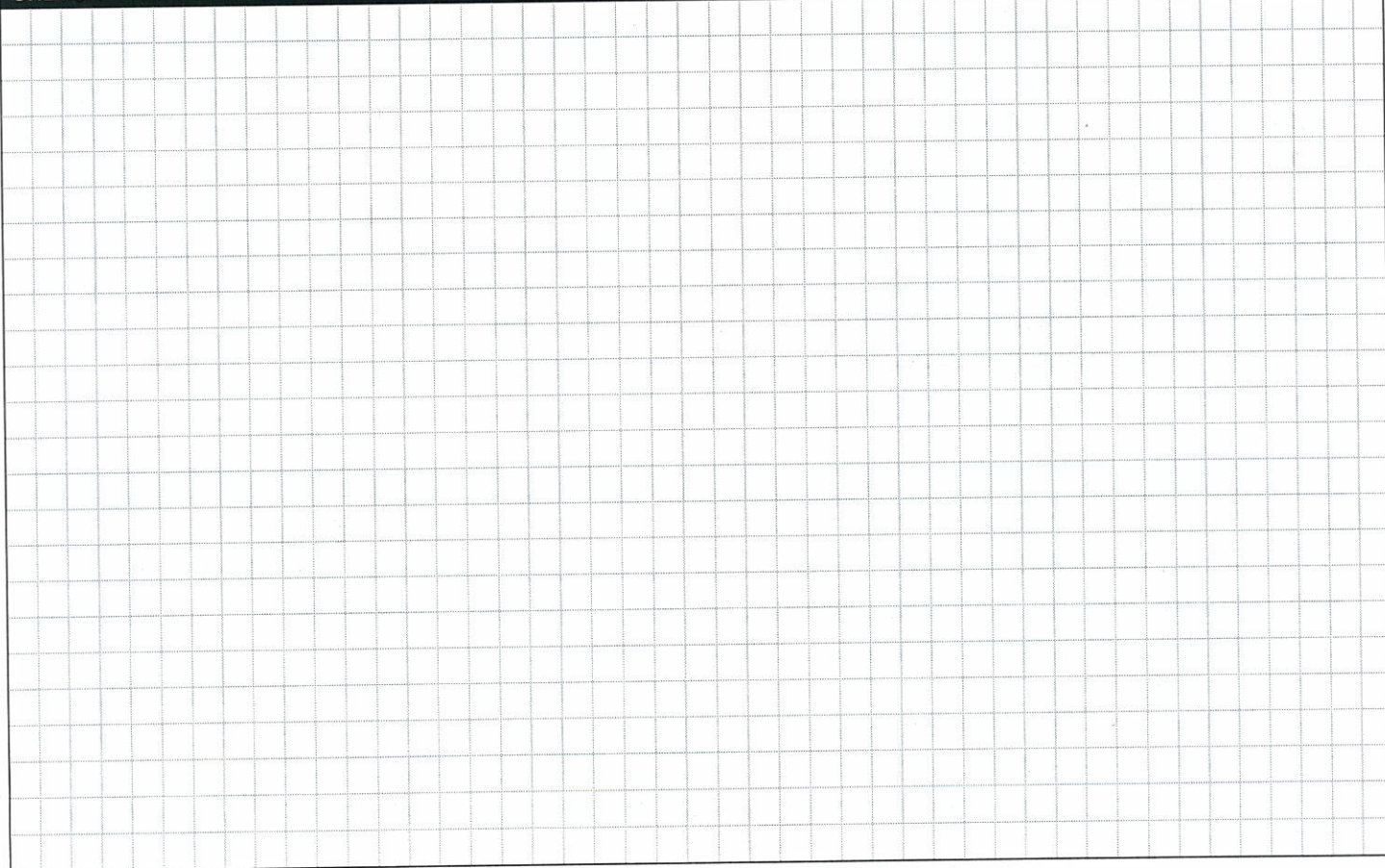
Date

Verified by :

Signature

Date

## SKETCH







SNC • LAVALIN

SITE REPORT  
(Detailed)

20180817-DS-SR

Document number

Visit date: August 17, 2018 Time (Start/End): 6:00 PM / 6:00 AM Project No.: 658309 Prepared by: Tezera Ferede Azmach

Project: WTD construction

Client: Agnico Eagle

Consultant: SNC-Lavalin

Contractor: K.C.G.

Weather : ☒ Sunny ☐ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong,

Temperature : ~10 °C

Comments :

Appendix : ☐ Yes ☐ No Pictures ☐ Yes ☐ No

Inspection report or other :

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- observed trench clean-up between stations 435 to 0+475. QC representative checked bedrock elevation. Foundation condition was found to be acceptable.
- East abutment area : (between stations 0+739 and 0+772): foundation needed to be cleaned out and it was cleaned to our satisfaction before placement of fine filter.
- Fine filter and coarse filter (fish) placement (between stations 0+739 and 0+772) was observed and it is ongoing. It was observed that coarse filter material was placed between the fine filter material and the frost material on the downstream side

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

- | No | Subject   | Given to |
|----|---|----------|
| →  | of this zone, which is different from what is projected (shown) in cross-section. This was brought to the attention of the ARM and the contractor, and also the QA supervisor. A discussion is ongoing on this issue. (Refer to Note at the back) |          |
| →  | observed fine filter sampling from material placed around station 0+400. Sampling procedure is good.  |          |
| →  | Fine filter placement (using buckets) was observed in west abutment. Foundation is acceptable.  |          |
| →  | Trench clean up is going on from 0+735 to eastward  |          |



**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
→ French clean-up	0+435 to 0+445	Acceptable
→ Fine filter placement	0+439 to 0+442	some changes
→ Fine filter sampling	0+400	good sampling procedure
→ Coarse filter placement	0+439 to 0+442	Upstream side

**SAFE AND SAFETY REMARKS**

Issued by :

*[Signature]*

Signature

Aug 17, 2018

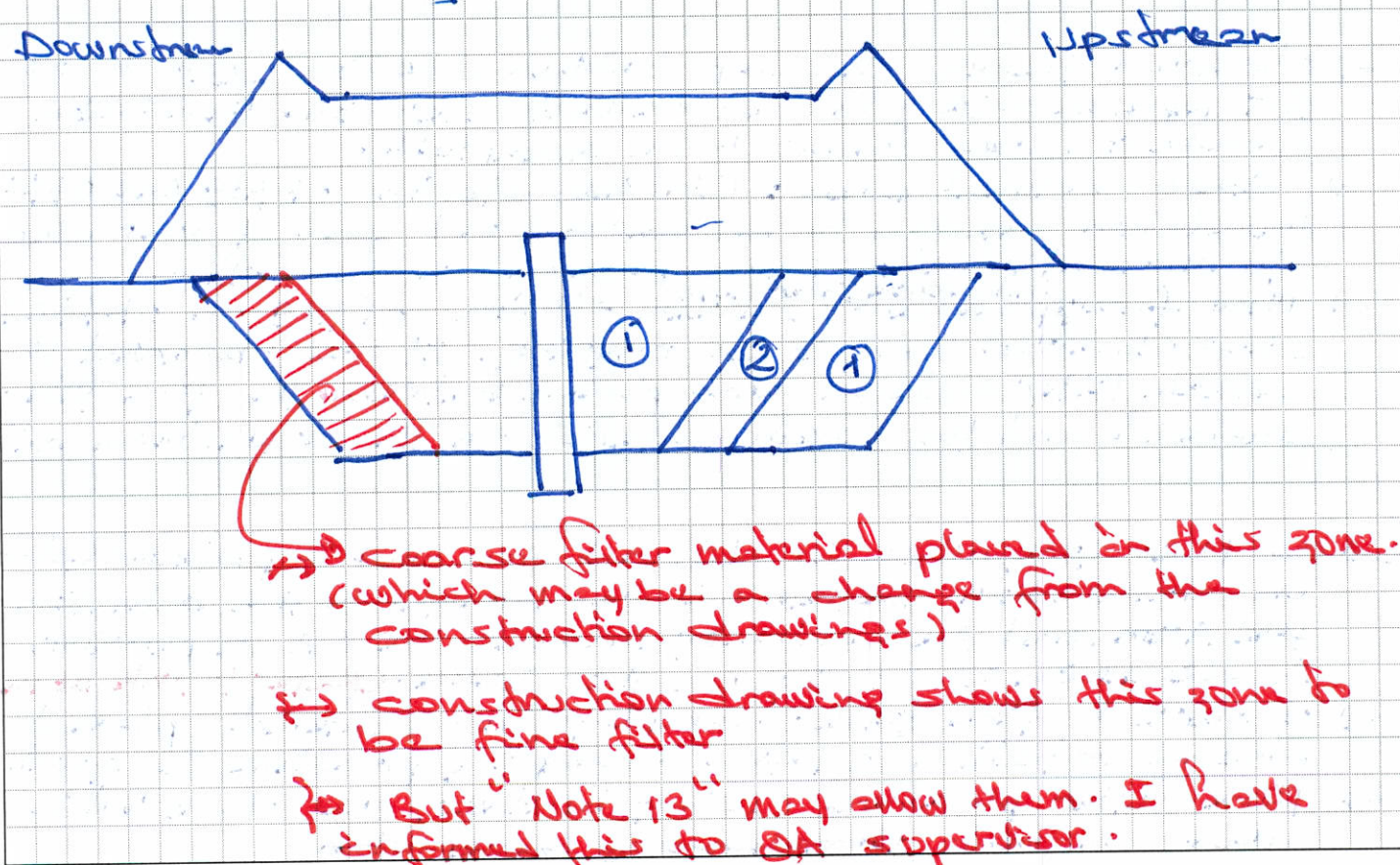
Date

Verified by :

Signature

Date

**SKETCH**







SNC-LAVALIN

# SITE REPORT (Detailed)

20180818-NS-SR

Document number

2018-08-18 Visit date 18:00/6:00 Time (Start/End) 658309 Project No. MATHIEU JÉZÉQUEL Prepared by

WTO CONSTRUCTION Project Agnico Eagle Client

SNC-Lavalin Consultant KCG Contractor

Weather : ☒ Sunny ☐ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze  
Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong, Temperature : 10 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☒ Yes ☐ No Inspection report or other :  
3 APPROVAL FORMS

North side : 0+455

South side : 0+475

## ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- COARSE FILTER PLACEMENT BETWEEN STATIONS 0+415 TO 0+475. AT THE RREST (EL. 153.5), THE WIDTH OF THE COARSE FILTER REGULARLY EXCEEDS 3.0m DUE TO THE CONSTRUCTION METHOD PROPOSED BY AGNICO EAGLE (ELEVATION BUFFER FOR COARSE FILTER TOE PLACEMENT). SEE THE SKETCH.
- FINE FILTER PLACEMENT BETWEEN STATIONS 0+345 TO 0+435. GOOD HANDLING/PLACEMENT BY EXCAVATOR OPERATOR TO AVOID SEGREGATION OF THE MATERIAL. INSPECTION OF QC REPRESENTATIVE SAMPLING PLACED FINE FILTER AT ST. 0+400, EL. 153.5m TO THE SATISFACTION OF QA INSPECTOR
- FINE FILTER PLACEMENT UP TO EL. 157.0m BETWEEN STATIONS 0+135 TO 0+209. AS PREVIOUSLY MENTIONED, LIFT THICKNESSES > 1.5m WHICH IS THE MAXIMUM LIFT THICKNESS ACCORDING TO SPECS.
- EXCAVATION OF LAKEBED MATERIAL AT STATIONS 0+580 TO 0+600. EXCAVATOR WITH SHOVEL WITH TEETH TO EXCAVATE POTENTIALLY FROZEN LAKEBED MATERIAL. "ROUGH" CLEANING, ONGOING.

## SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No Subject Given to  
→ FINE FILTER IS NOW AT EL. 157.0m FROM ≈ 0+080 TO 0+335



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
COARSE FILTER PLACEMENT	0+415 TO 0+475 (South)	WIDTH EXCEEDS 2.7m
FINE FILTER PLACEMENT	0+415 TO 0+455 (North)	MEETS THE SPECS
"	0+395 TO 0+435	LIFT THICKNESS > 1.5m
LAKED EXCAVATION	0+135 TO 0+209	ONGOING ("ROUGH" EXCAVATION)
	0+580 TO 0+600	

## SAFE AND SAFETY REMARKS

WHEN SAMPLING FINE FILTER FROM CRUSHER PRODUCTION, SWITCH RADIO CHANNEL TO COMMUNICATE WITH CRUSHER SUPERVISOR AND OPERATORS TO APPROACH THE CRUSHER SAFELY.

Issued by :

*[Signature]*

Signature

2018-08-18

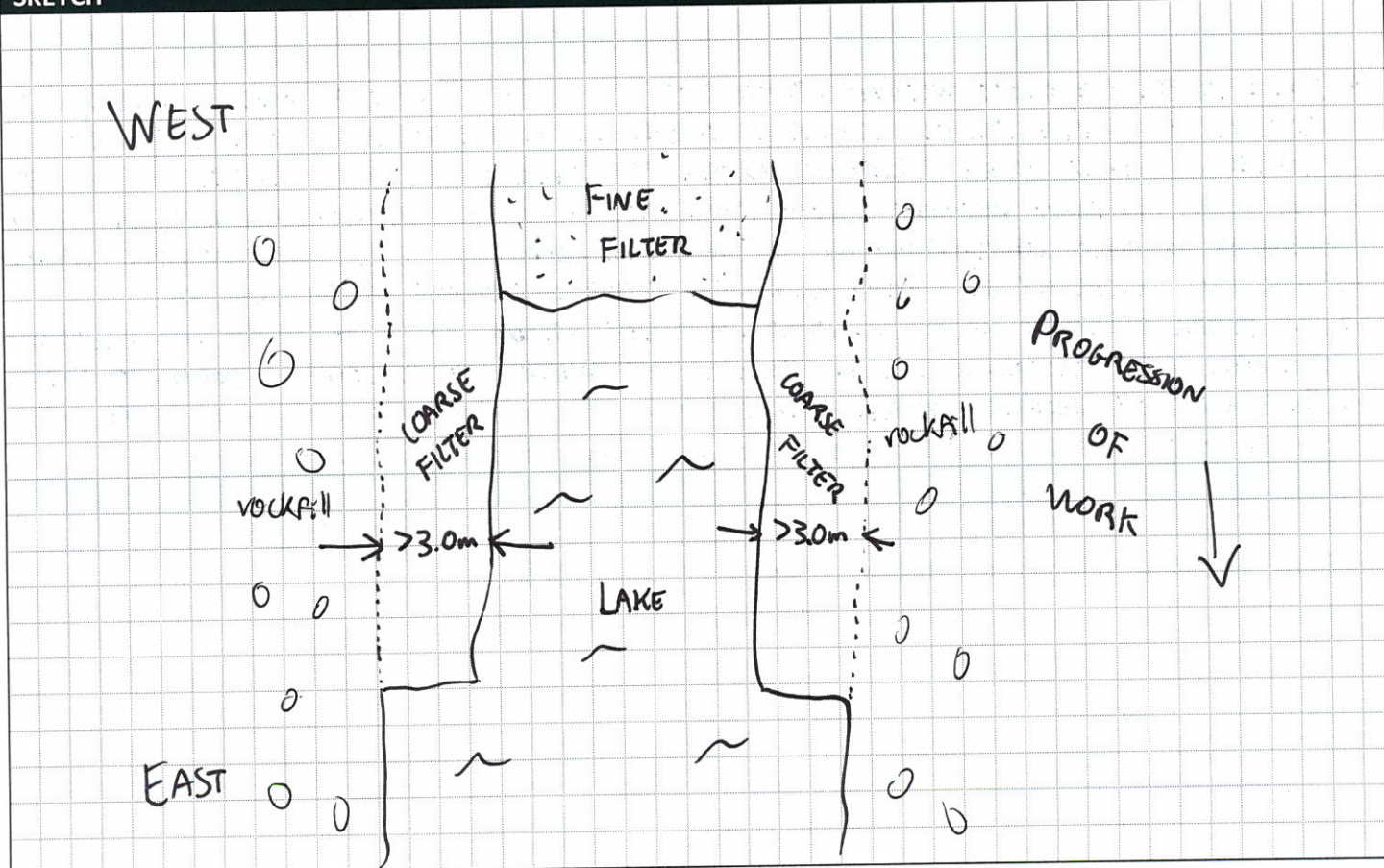
Date

Verified by :

Signature

Date

## SKETCH







SNC • LAVALIN

SITE REPORT  
(Detailed)

20180818-05-SR

Document number

August 18, 2018

Visit date

6:00AM / 6:00PM

Time (Start/End)

658309

Project No.

Tezera Fines Azmatch

Prepared by

WTD construction

Project

Agnico Eagle

Client

SNC-Lavalin

Consultant

KCG

Contractor

Weather :

☐ Sunny

☒ Cloudy

☒ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None gusts

☒ Light

☐ Moderate

☐ Strong,

Temperature : -5 °C

Comments :

Appendix :

☐ Yes

☐ No

Pictures

☐ Yes

☐ No

Inspection report or other :

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- QA/QC observed that there existed coarse filter material at the footprint of the fine filter (top of bedrock - previously approved foundation) during check-up ~~at~~ in front of the fine-filter placement progression. Such checks are normally carried out ~~at~~ at 20 m interval. After today's observation, it was decided to do such checks every 10m.
- Foundation clean-up in the trench was observed and found out to be acceptable for stations 0+475 to 0+515.
- Observed coarse filter placement between stations 0+475 and 0+495 and was found it out to be acceptable.

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

- Observed that coarse filter material was placed outside design extent in section between stations 0+120 and 0+135. Coarse filter was placed instead of rock fill. This was pointed out to the QC and client. The client is in contact with the QA supervisor to discuss this. (Refer to the figure or sketch in the next page)
- Fine filter placement is ongoing in east abutment area between station 0+433 and 0+472
- coarse filter placement (from Et. 153.5 to Et. 155m) on downstream side is ongoing between stations 0+220 and 0+320



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
→ Foundation (trench) cleanup	between stations 0+475 and 0+515	Acceptable
→ Coarse filter placement	0+475 to 0+495	Acceptable
→ Coarse filter placement	0+120 to 0+135	different from design
→ Coarse filter "	0+220 to 0+320 (checking alert)	ongoing.

## SAFE AND SAFETY REMARKS

Issued by :

Tezere Firoz Azmarch

Signature

*[Signature]*

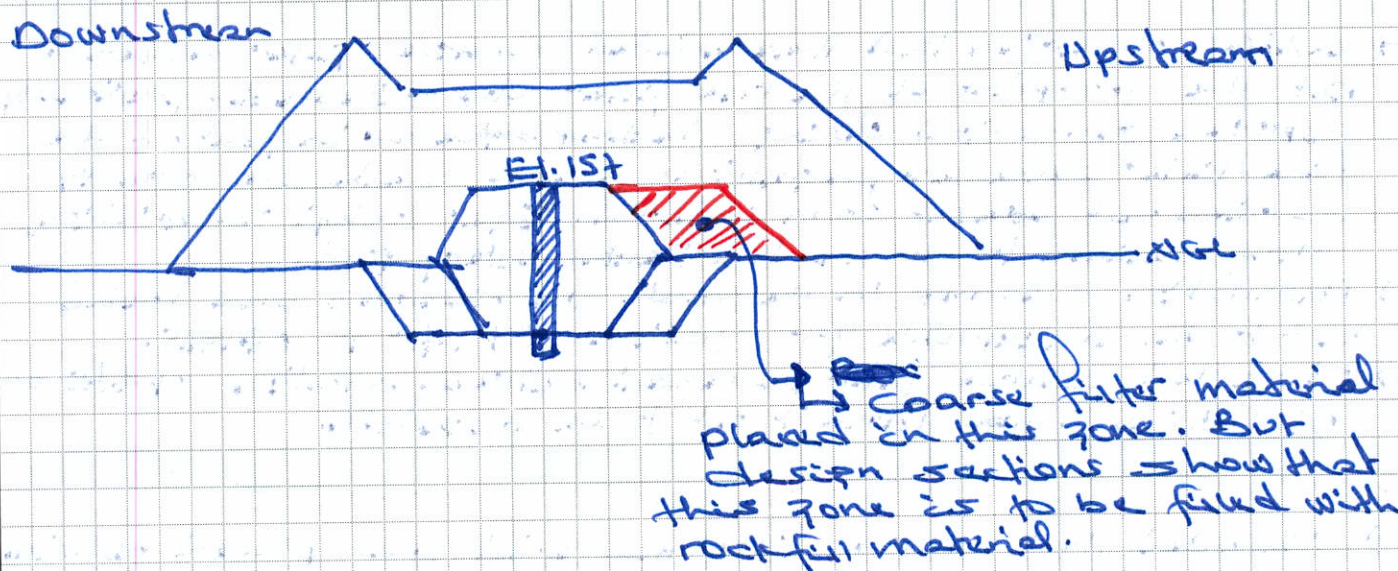
Date

Verified by :

Signature

Date

## SKETCH







SNC-LAVALIN

SITE REPORT  
(Detailed)

20180819-NS-SR

Document number

2018-08-19 18:00/6:00 658309 M. JÉZÉQUEL  
Visit date Time (Start/End) Project No. Prepared by

WTO CONSTRUCTION Agnico Eagle  
Project Client

SNC-Lavalin KCG  
Consultant Contractor

Weather : ☐ Sunny ☒ Cloudy ☒ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☐ Light ☒ Moderate ☐ Strong,

Temperature : 4 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☒ Yes ☐ No Inspection report or other :

## ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- FOUNDATION (FOOTPRINT) WAS APPROVED AT THE EAST ABUTMENT BETWEEN ST 0+773 TO 0+790.
  - ZONE OF FRACTURED BEDROCK BETWEEN 0+771 TO 0+781 (REFER TO SKETCH)
  - BOTTOM OF THE FOUNDATION IS ON BEDROCK (FRACTURED AND SOUND) AND ON FROZEN SOIL.
  - WELL CLEANED AND NO ICE-RICH MATERIAL LEFT ON FOUNDATION FLOOR.
- QA INSPECTOR NOTICED THAT FINE FILTER + COARSE FILTER HAVE BEEN PLACED BETWEEN ST 0+740 TO 0+770 DURING A PREVIOUS SHIFT AND HAVE NOT BEEN APPROVED BY QA OR QC
  - COARSE FILTER ON THE UPSTREAM SLOPE (AGAINST ROCKFILL) IS TOO THIN. A WIDTH OF 1.0m WAS MEASURED AND THE REQUIREMENT FROM THE DRAWINGS IS 1.5m: NON-CONFORMITY. (SEE THE SKETCH).
- WIDTH OF COARSE FILTER AGAINST NATURAL GROUND ON THE DOWNSTREAM SLOPE WAS REDUCED FROM 3.0m AT ST. 0+790 AND BELOW TO 1.5m BETWEEN 0+770 TO 0+790.

## SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

- No Subject Given to
- COARSE FILTER PLACEMENT APPROVED BETWEEN 0+495 TO 0+515 ON BOTH SIDES (NORTH AND SOUTH), EL. 153.5m.
    - FOLLOWING APPROVAL OF COARSE FILTER, CONTRACTOR CLEANED THE KEY TRENCH WITH A SHOVEL BETWEEN 0+500 TO 0+515 AS REQUESTED BY QA INSPECTOR. A LOT OF SEGMENTS ACCUMULATED ON THE LAKE FLOOR HAVE BEEN REMOVED.
  - FINE FILTER PLACEMENT APPROVED BETWEEN 0+471 TO 0+480 AT THE ELEVATION 153.5m.
    - FINE FILTER HAS BEEN CONTAMINATED WITH COARSE FILTER AND BOULDERS AT ST. ≈ 0+465. IT HAS BEEN CLEANED WITH A SHOVEL AS REQUESTED BY QA AND QC REPRESENTATIVES.
  - ROCKFILL AGAINST NATURAL GROUND AT THE EAST ABUTMENT (UPSTREAM SIDE) HAS BEEN APPROVED BETWEEN ST. 0+770 TO 0+785 (EL. 155.0m)
    - VISUAL INSPECTION OF GRADATION LOOKS CONFORM TO THE SPECS.



UP TO AN ELEVATION OF 155.0 m.

THE ROCKFILL SURFACE (EL. 153.5m) HAS BEEN CLEANED BEFORE AS REQUESTED BY SITE REPORT QA/QC REPRESENTATIVES

### SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
FOUNDATION (FOOTPRINT) APPROVAL	0+772 TO 0+790	APPROVED
COARSE FILTER PLACEMENT	0+740 TO 0+770	NON-CONFORMITY (THICKNESS)
"	0+495 TO 0+515	APPROVED
FINE FILTER PLACEMENT	0+471 TO 0+480	APPROVED
ROCKFILL PLACEMENT	0+770 TO 0+785, SOUTH SIDE	APPROVED
"	0+140 TO 0+240, NORTH SIDE	APPROVED

### SAFE AND SAFETY REMARKS

WEAR LIFE JACKET NEAR WATER AND ON BOAT

Issued by :

Signature

2018-08-19

Date

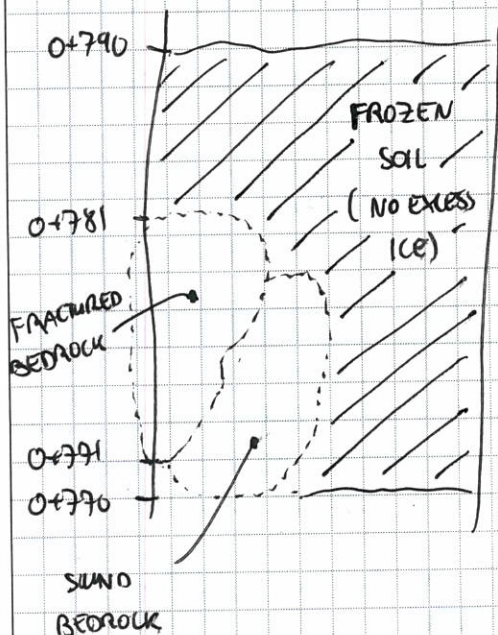
Verified by :

Signature

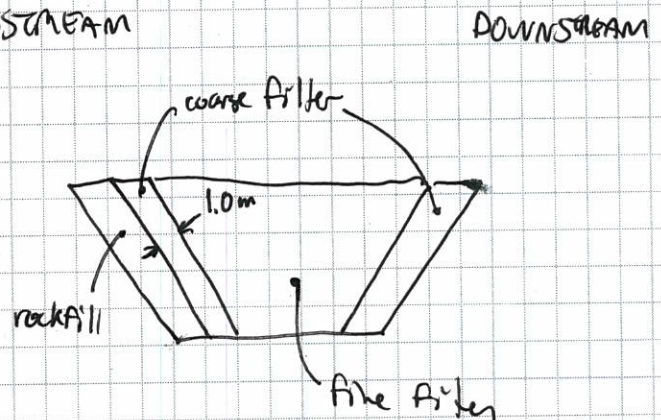
Date

### SKETCH

FOUNDATION APPROVAL - EAST ABUTMENT



COARSE FILTER - EAST ABUTMENT







20180819 - DS-SR

Document number

August 13, 2018	6:00 Am / 6:00 PM	658309	Tezera Fines Azmaka
Visit date	Time (Start/End)	Project No.	Prepared by

Project

Agnico Eagle

Client

SNC-Lavalin

Consultant

Contractor

Weather :

☐ Sunny☒ Cloudy☒ Rain

☐ Storm

☐ Snow☐ Glaze

Wind :

☐ None  
gusts☐ Light☐ Moderate☐ Strong,

Temperature : 5 °C

Comments :

## Freezing rain

## Appendix :

☐ Yes☐ No

## Pictures

☐ Yes☐ No

Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Observed coarse filter placement between stations 0+495 to 0+515 to est. 1531.5 and was acceptable.
- Observed foundation clean-up between stations 0+515 and 0+555, and was found to be acceptable after a second round of clean-up.
- Observed rock fill placement between stations 0+270 and 0+175 (i.e., heading west) on upstream side.
- Observed fine filter sampling ~~between~~ at stations 0+410
- Observed coarse filter placement between stations 0+772 and 0+805 on upstream side

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

- Observed <sup>Subject</sup> coarse fit placement between stations 0 + 742 and 0 + 790  
→ " " " " " 2 ft about stations 0 + 540, which is progressing east. Given to

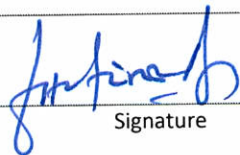


**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
coarse fill placement	0+495 to 0+515	Acceptable & approved
"	0+712 to 0+805 (W/L)	ongoing
"	0+772 to 0+790 (GLS)	"
"	at about 0+540	"
Fine filter <del>placement</del> <sup>Sampling</sup>	0+410	good sampling
rock fill placement	0+270 to 0+175	ongoing
Foundation clean-up	0+515 to 0+555	Accepted/Approved

**SAFE AND SAFETY REMARKS**

Issued by :

  
Signature

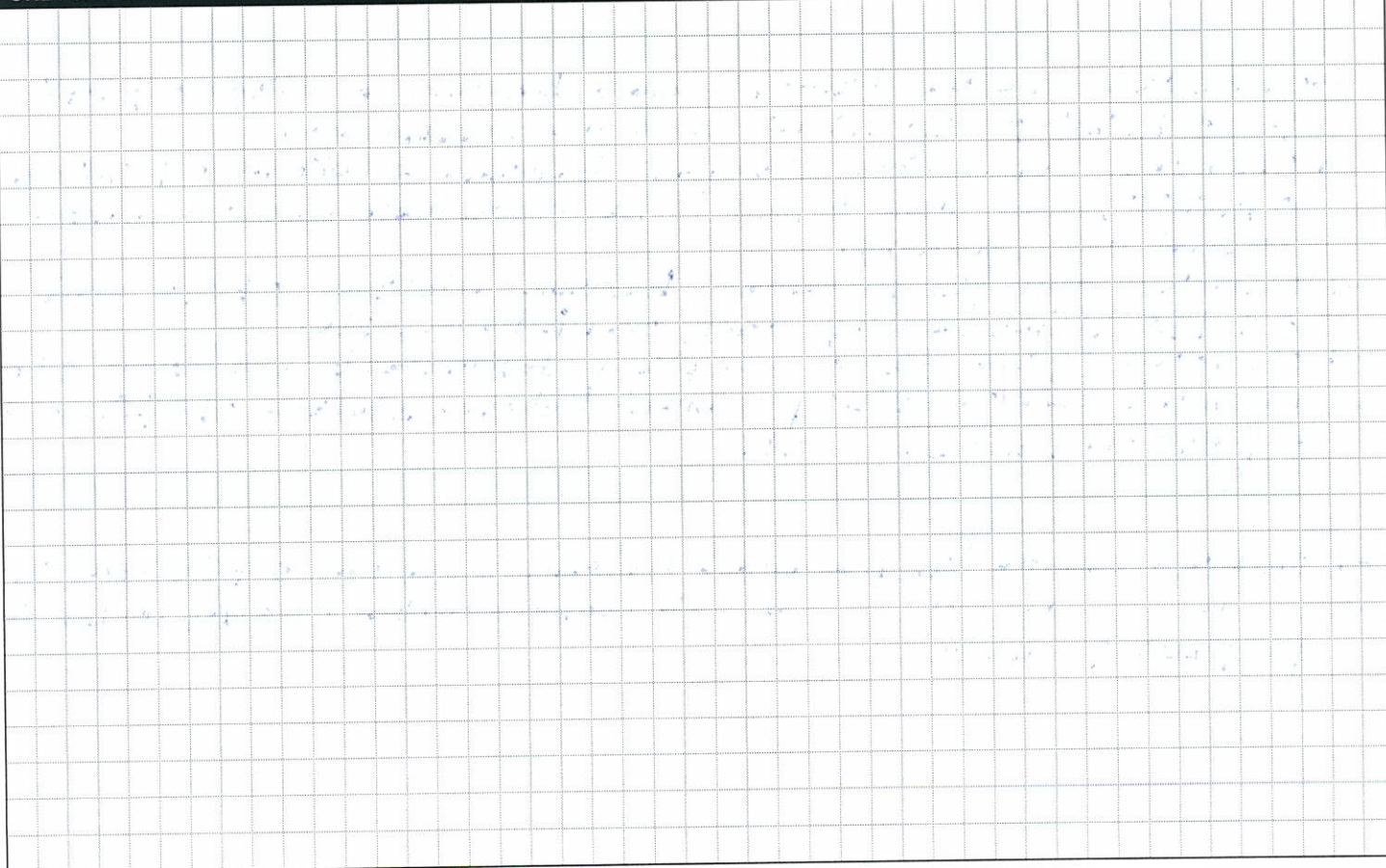
August 19, 2018  
Date

Verified by :

Signature

Date

**SKETCH**





20180820-NS-SR  
Document number

2018-08-20 Visit date 18:00/6:00 Time (Start/End) 658309 Project No. M. JÉZÉQUEL Prepared by

W TO CONSTRUCTION Project Agnico Eagle Client

SNC-Lavalin Consultant KCG Contractor

Weather : ☐ Sunny ☒ Cloudy ☒ Rain ☐ Storm ☐ Snow ☐ Glaze  
Wind : ☐ None gusts ☐ Light ☒ Moderate ☐ Strong, Temperature : 4 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☒ Yes ☐ No Inspection report or other :


**ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)**

- EAST ABUTMENT: FOUNDATION (FOOTPRINT) HAS BEEN APPROVED BETWEEN 0+790 TO 0+808
  - QA REPRESENTATIVE ASKED THE CONTRACTOR TO STRIP THE FOUNDATION BETWEEN 0+790 TO 0+790 WITH AN EXCAVATOR SINCE NO FINE FILTER WAS PLACED ON TOP OF NATURAL GROUND FOLLOWING YESTERDAY'S APPROVAL. IT HAS BEEN DONE TO THE SATISFACTION OF THE QA REPRESENTATIVE
  - FOUNDATION BETWEEN 0+790 TO 0+808 IS ON FROZEN SOIL FREE OF EXCESS ICE
  - WATER PONDING IN THE FOUNDATION HAS BEEN PUMPED BEFORE PLACING FINE FILTER MATERIAL AS REQUESTED BY THE QA REPRESENTATIVE
  - FINAL STATION (0+808) CORRESPONDS TO A FOUNDATION ELEVATION OF 153.5m.
- EAST ABUTMENT: ROCKFILL AND COARSE FILTER PLACEMENT ON THE UPSTREAM SIDE UP TO AN ELEVATION OF 153.5m HAS BEEN APPROVED BETWEEN 0+790 TO 0+808

**SITE GUIDELINES (guidelines, memos, modification proposals, etc.)**

- No ~~Subject~~ ~~Gravel~~
- LINES AND GRADES HAVE BEEN CHECKED WITH THE SURVEYOR AND MEET THE SPECIFICATIONS
  - A 1-m WIDE STRIP OF COARSE FILTER WAS PLACED AGAINST NATURAL GROUND ON THE DOWNSTREAM SIDE TO PREVENT THAWING OF THE SLOPE AND WAS APPROVED BY QA MANAGER
  - KEY TRENCH HAS BEEN CLEANED BETWEEN 0+555 TO 0+575 ON THE NORTH SIDE TO THE SATISFACTION OF QA AND QC REPRESENTATIVES
    - BATHYMETRIC SURVEY POINTS HAVE BEEN TAKEN MANUALLY BY QC REPRESENTATIVE ALONG THE CENTERLINE AT 5m INCREMENTS USING A CHAIN ON A BOAT.
  - KEY TRENCH HAS BEEN CLEANED BETWEEN 0+575 TO 0+595 ON THE SOUTH SIDE TO THE SATISFACTION OF QA AND QC REPRESENTATIVES



 <b>SNC-LAVALIN</b> Vérifié par Checked by Date	<b>Notes de calcul/Design Brief</b>		No de projet Project No.	Subdivision Phase	Élément Element
	ÉLÉMENT/ELEMENT <b>20180820-NS-SR</b>		Date	Page <b>2</b> de/of <b>3</b>	Préparé par Prepared by
<b>MODIFICATION</b> Date		Vérifié par Checked by	Préparé par Prepared by		

- COARSE FILTER PLACEMENT UP TO 157.0 m ON THE DOWNSTREAM SIDE AGAINST FINE FILTER AT STATION 0+220
  - QA INSPECTOR NOTICED THAT THE DOWNSTREAM SLOPE IS A LITTLE TOO GENTLE (TOE OF COARSE FILTER SLOPE IS  $\approx 15$  cm TOO WIDE). QA INSPECTOR ADVISED THE CONTRACTOR TO LET THE SLOPE AS IS BECAUSE FINE ADJUSTMENTS ON 0-6" MATERIAL CAUSES SEGREGATION OF THE COARSE FILTER.
- FINE FILTER PLACEMENT UP TO ELEVATION 157.0 m FROM ST. 0+435. A SAMPLE WAS TAKEN BY THE QC REPRESENTATIVE. ONGOING.
- FINE FILTER PLACEMENT INTO THE LAKE APPROVED BETWEEN 0+495 TO 0+505.
  - PRIOR TO FINE FILTER PLACEMENT, QA INSPECTOR TOLD THE CONTRACTOR TO CLEAN THE KEY TRENCH WITH AN EXCAVATOR, WHICH HE DID
  - LAKEBED SEDIMENTS HAVE BEEN DEPOSITED ON THE SAFETY BERM MADE OF ROCKFILL ON THE NORTH SIDE OF THE DIKE. QA INSPECTOR WARNED THE CONTRACTOR THAT WASTE MATERIAL SHOULD BE PUT IN TRUCKS AND SENT TO THE WASTE OUMP SINCE THIS CAUSES CONTAMINATION OF THE ROCKFILL MATERIAL (IN TERMS OF GRAIN SIZE DISTRIBUTION).
- ROCKFILL MATERIAL ON THE SOUTH SIDE UP TO EL. 157.0 m PROGRESSED TOWARDS WEST, ALMOST MERGED WITH COARSE FILTER AT STATION 0+135. ONGOING.
- COARSE FILTER PLACEMENT ON THE SOUTH SIDE (EL. 153.5 m) APPROVED BETWEEN ST. 0+515 TO 0+555
  - WIDTH OF COARSE FILTER STILL EXCEEDS 3.0 m (DRAWINGS INDICATE A WIDTH OF 2.7 m).
- A SAMPLE OF FINE FILTER TAKEN DURING THE PREVIOUS DAY SHIFT (2018-08-19) WAS LEFT IN THE REAR BOX OF THE PICKUP TRUCK AND THE BAG WAS FOUND FLIPPED ON ITS SIDE WITH MATERIAL COMING OUT OF IT. QA INSPECTOR ADVISED QC REPRESENTATIVE TO DISCARD THAT SAMPLE.
- EAST ABUTMENT: FINE FILTER (EL. 153.5 m) APPROVED BETWEEN 0+772 TO 0+808.



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
FOUNDATION (FOOTPRINT)	0+790 to 0+808	APPROVED
ROCKFILL/COARSE FILTER PLACEMENT	0+790 to 0+808	APPROVED
FINE FILTER PLACEMENT	0+790 to 0+808	APPROVED
COARSE FILTER PLACEMENT	0+515 to 0+555, south side	APPROVED
KEY TRENCH CLEANING	0+555 to 0+595, North side	TO THE SATISFACTION OF QC/QA
	0+595 to 0+595, South side	"
FINE FILTER PLACEMENT	0+495 to 0+505	APPROVED

# SAFE AND SAFETY REMARKS

PAY ATTENTION ON SLIPPERY ROCKS WHEN IT'S RAINING

Issued by :

*[Signature]*  
Signature

2018-08-20

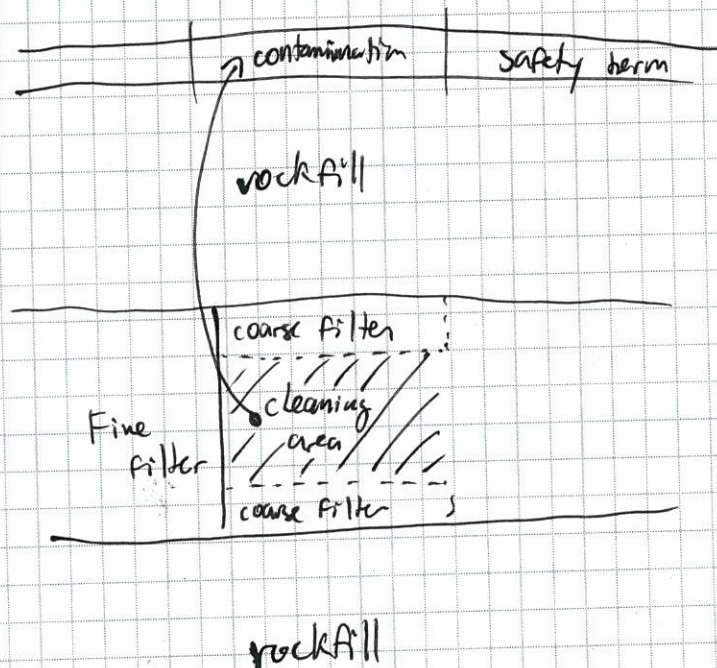
Date

Verified by :

Signature

Date

# SKETCH





20180820-DS-SR

Document number

Visit date: August 20, 2018 Time (Start/End): 6:00AM / 6:00PM Project No.: 658309 Prepared by: Tezera Finew Azmeh

Project: WTD Construction

Client: Agnico Eagle

Consultant: SNC-Lavalin

Contractor: KCG

Weather: ☐ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind: ☐ None gusts ☐ Light ☐ Moderate ☐ Strong,

Temperature: ~3 °C

Comments:

Appendix: ☐ Yes ☐ No Pictures ☒ Yes ☐ No

Inspection report or other:

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

→ observed foundation clean-up between stations 0+555 and 0+595. Part of this section has been observed by QA/QC in the night shift. The QA and QC during day shift made spot checks to make approvals and the checks indicated that the foundation was not clean since indications of frozen foundation condition (i.e. ice) was observed. The day shift QA/QC recommended re-cleaning. The foundation ~~was~~ condition after re-cleaning seem to have reached the bedrock (past the frozen zone). Hence, it was considered acceptable. Refer to photo for ice.

→ observed coarse fill material placement <sup>to El. 153.5m</sup> on the north side

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No Subject Given to

→ between stations 0+515 and 0+555, which was acceptable.

→ observed fine filter material placement (to El. 153.5m) between stations 0+505 and 0+540, and was acceptable.



**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
→ Foundation clean-up	0+555 to 0+ <del>585</del> <sup>595</sup>	Accepted
→ Coarse fill placement to El. 153.5m	0+515 to 0+555	Accepted
→ Fine filter placement to El. 153.5m		

**SAFE AND SAFETY REMARKS**

Issued by :

*[Signature]*  
Signature

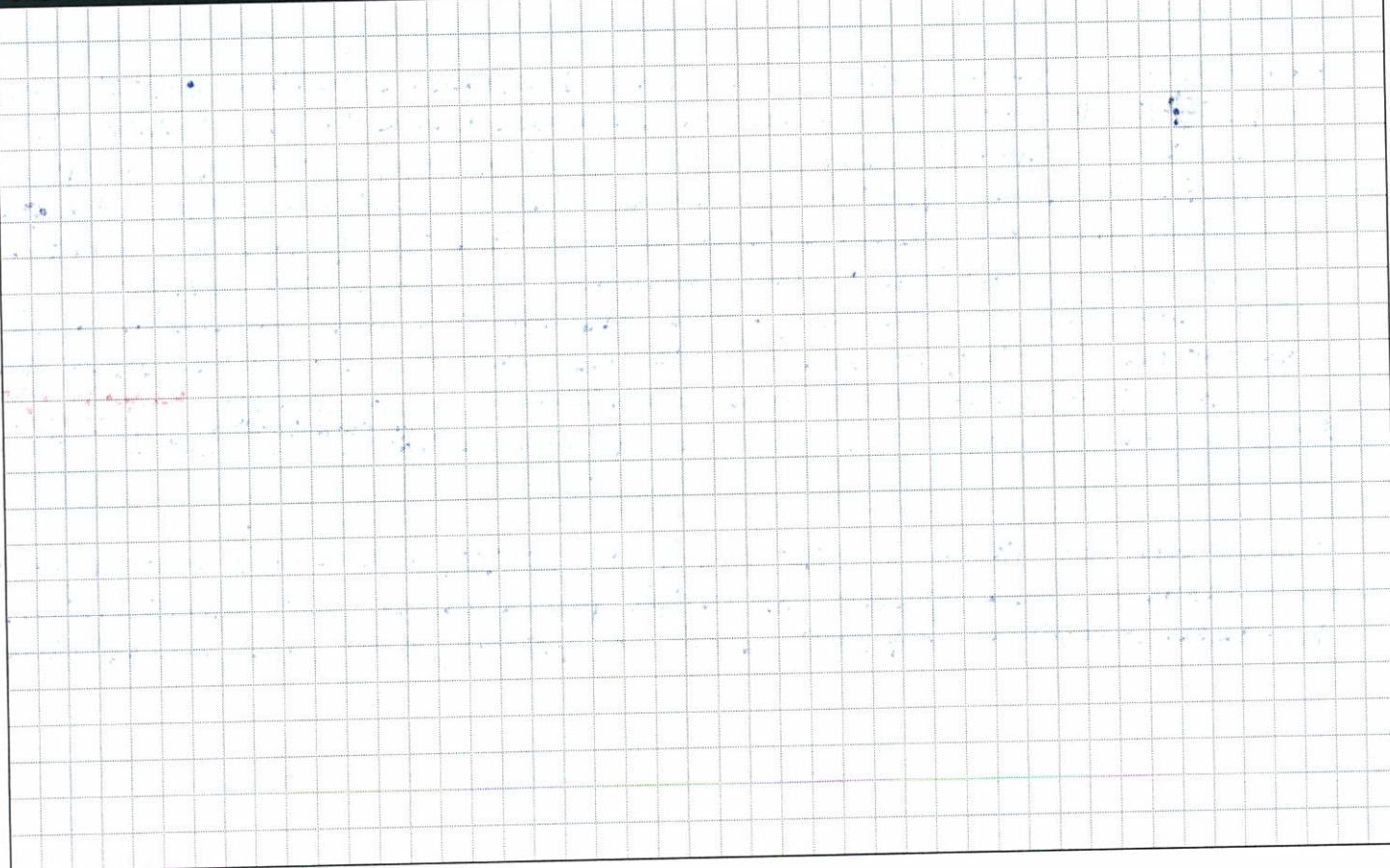
August 20, 2018.  
Date

Verified by :

Signature

Date

**SKETCH**





**Indicators of Presence of Frozen Material above bedrock in the station between 0 + 555 and 0 + 595**





20180821-NS-SR

Document number

Visit date: 2018-08-21 Time (Start/End): 18:00/6:00 Project No.: 658309 Prepared by: M. JÉZÉQUEL  
Project: WTD CONSTRUCTION Client: Agnico Eagle  
Consultant: SNC-Lavalin Contractor: KCG

Weather : ☐ Sunny ☒ Cloudy ☒ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong,

Temperature : 4 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☐ Yes ☒ No

Inspection report or other :

Approval forms

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- CONTRACTOR CREW CHANGE: FIRST NIGHT SHIFT WITH NEW OPERATORS AND FOREMAN
- COARSE FILTER PLACEMENT BETWEEN ST. 0+555 TO 0+575: APPROVED AND MEET THE SPECIFICATIONS  
• WIDTH AT THE CREST IS STILL LARGER THAN REQUIRED:  $\approx 3.5m$  NORTH SIDE AND  $\approx 4.0m$  SOUTH SIDE
- COARSE FILTER PLACEMENT BETWEEN 0+220 TO 0+240: APPROVED AND MEET THE SPECIFICATIONS (NORTH SIDE)
- FINE FILTER PLACEMENT BETWEEN 0+447 TO 0+490: APPROVED
- ROCKFILL PLACEMENT BETWEEN 0+270 TO 0+300: APPROVED (SOUTH SIDE)  
• THE REQUIREMENTS IN TERMS OF COMPACTION HAVE BEEN LARGELY EXCEEDED AND MEET THE SPECIFICATIONS
- ROCKFILL PLACEMENT UP TO EL. 157m STARTING AT 0+310 GOING WEST: ONGOING.
- TRENCH CLEANING WITH SHOVEL EQUIPPED WITH TEETH BETWEEN 0+660 TO 0+690: ONGOING.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No	Subject	Given to
→	FINE FILTER PLACEMENT BETWEEN 0+540 TO 0+545: APPROVED AND MEET THE SPECIFICATIONS • TRENCH WAS CLEANED BY EXCAVATOR BEFORE PLACING FINE FILTER MATERIAL	



### SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
COARSE FILTER PLACEMENT	0+555 TO 0+575, BOTH SIDES	APPROVED
"	0+230 TO 0+240, NORTH SIDE	APPROVED
FINE FILTER PLACEMENT	0+447 TO 0+490	APPROVED
ROCKFILL PLACEMENT	0+270 TO 0+300, SOUTH SIDE	APPROVED
"	START: 0+310, GOING WEST	ONGOING
TRENCH CLEANING	≈ 0+660 TO 0+680	ONGOING
FINE FILTER PLACEMENT	0+540 TO 0+545	APPROVED

### SAFE AND SAFETY REMARKS

BE VISIBLE ON SITE AND USE FRONT LIGHT WHEN WALKING ON THE DIKE  
(HEADLAMP)

Issued by :

*[Signature]*  
Signature

2018-08-21

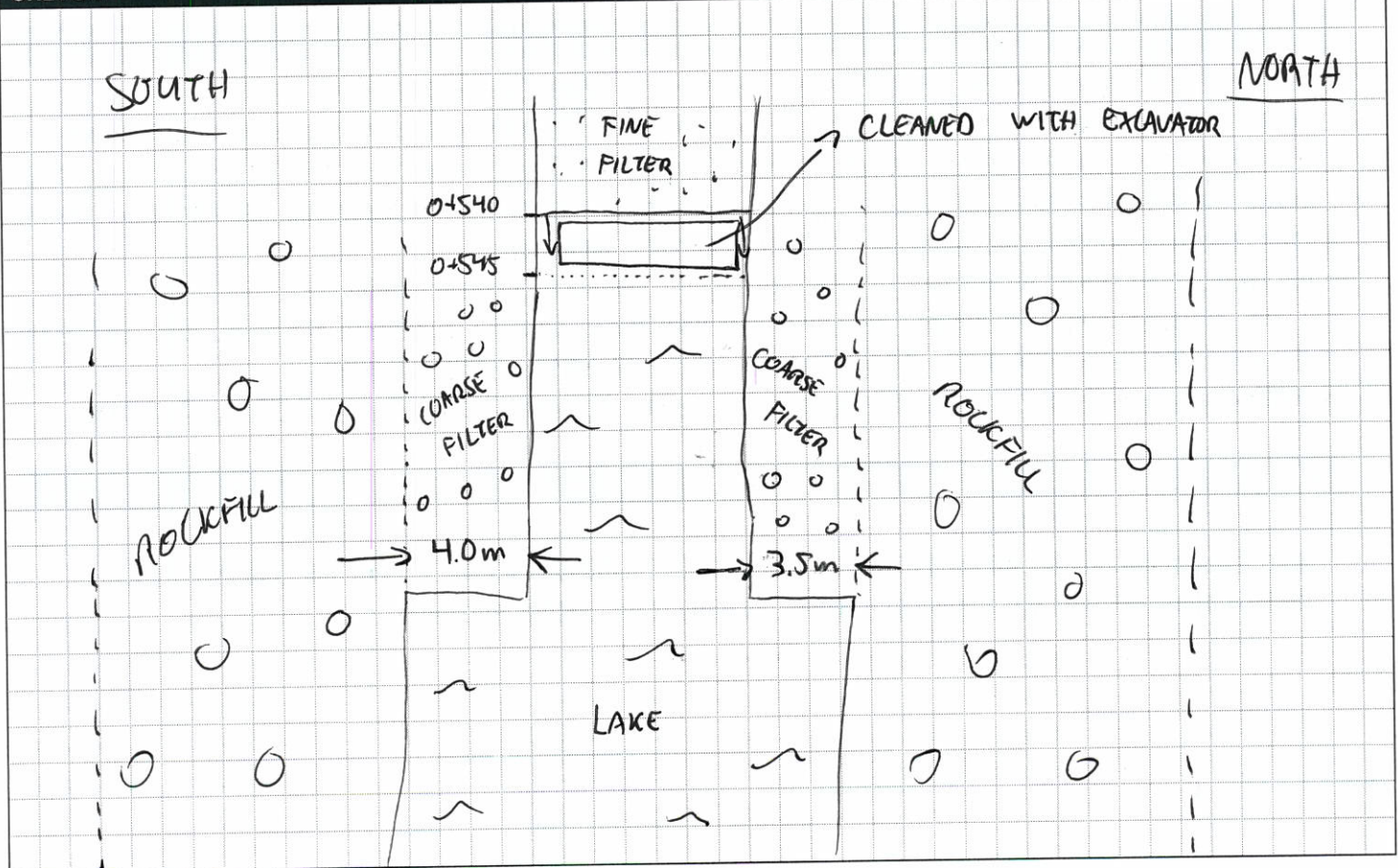
Date

Verified by :

Signature

Date

### SKETCH







SNC-LAVALIN

# SITE REPORT (Detailed)

20180821-DS-SR

Document number

Visit date: August 21, 2018 Time (Start/End): 6:00 AM / 6:00 PM Project No.: 658309 Prepared by: Tezera Fines Azmald

Project: W&D Construction

Client: Agnico Eagle

Consultant: SNC-Lavalin

Contractor: KCG

Weather: ☒ Sunny ☒ Cloudy ☒ Rain ☐ Storm ☒ Snow ☐ Glaze

Wind: ☐ None gusts ☒ Light ☐ Moderate ☐ Strong,

Temperature: ~ 5 °C

Comments:

Appendix: ☐ Yes ☐ No Pictures ☐ Yes ☐ No Inspection report or other:

## ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

→ observed fine filter placement and compaction between approximate stations of 0+065 to 0+085 in the west abutment area where CB slurry wall will be constructed. The fine filter was placed to El. 15m. cleaning of bedrock and minor re-dimensioning will be required before placing the CB wall.

→ observed cleaning and/or excavation in the east abutment area between stations 0+710 and 0+739. Coarse filter material was placed against the in-situ frozen material slope to stop flowing of the thawed in-situ

## SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No	Subject	Given to
1	material towards the pit bottom making the excavation difficult. Extent of this coarse material placed needs to be checked to see if it is as per design, and correction may be required (before placement of fine filter and approval of foundation). Refer to the sketch at the back	
2	Observed placement of fine filter to El. 153.5 between stations 0+545 and 0+575	
3	Observed rock fill placement to El. 15m at about st. 0+140	



## SPECIFIC ELEMENTS VERIFIED

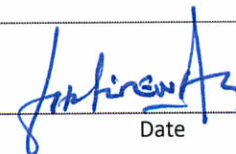
Elements	Location	Scope and comments
→ Fine filter to El. 151	~ 0+065 to 0+085	→ compacted well
→ Excavation and cleaning to bedrock	~ 0+710 to 0+739	→ going on
→ Fine filter placement to El. 153.5m	0+545 to 0+575	→ Accepted

## SAFE AND SAFETY REMARKS

Issued by :

Tezera Firaw Azmatch

Signature



Date

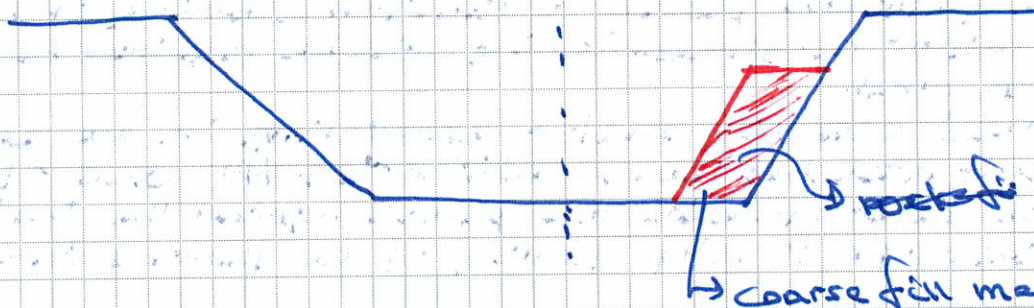
Verified by :

Signature

Date

## SKETCH

Between stations ~ 0+710 and 0+739



→ coarse fill material placed here to support the thawing slope and protect it from spilling into the excavation. The extent of the coarse fill material and also its foundation condition need to be verified after final clean-up before approval.



20180822-NS-SR

Document number

2018-08-22 | 18:00/6:00 | 658309 | M. JÉZÉQUEL  
Visit date | Time (Start/End) | Project No. | Prepared by  
WTO CONSTRUCTION | Agnico Eagle  
Project | Client  
SNC-Lavalin | KCG  
Consultant | Contractor

Weather : ☐ Sunny ☒ Cloudy ☒ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☐ Light ☐ Moderate ☐ Strong,

Temperature : 3 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☒ Yes ☐ No

Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- KEY TRENCH CLEANING BETWEEN 0+595 TO 0+615 TO THE SATISFACTION OF QA/QC REPRESENTATIVES
  - QA INSPECTOR ASKED EXCAVATOR OPERATOR TO SURVEY THE ELEVATION AT ST. 0+609, 1m UPSTREAM WHICH CORRESPONDS TO BOREHOLE AMG17-1201
    - ELEVATION FROM BOREHOLE: 148.70m / FROM SHOVEL: 147.18m
  - BATHYMETRY COMPLETED BY SHOVEL EQUIPPED WITH GPS + MANUAL READINGS WITH MEASURING TAPE ON A BOAT
  - HOWEVER, QA INSPECTOR RECOMMENDS DOING A COUPLE OF SPOT CHECKS BEFORE THE PLACEMENT OF COARSE FILTER MATERIAL DUE TO POTENTIALLY FROZEN LAKEBED MATERIAL REMAINING.
- EAST ABUTMENT: FOUNDATION APPROVAL BETWEEN 0+727 TO 0+739
  - FOUNDATION SITS ON FRACTURED BEDROCK ON THE WHOLE FOOTPRINT
  - ICE LENSES OBSERVED BETWEEN BEDROCK FRACTURES

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

- UNB Subject Given to
- ROCKFILL PLACEMENT APPROVED BETWEEN 0+727 TO 0+739 (EL. 153.5m)
  - COARSE FILTER PLACEMENT APPROVED BETWEEN 0+727 TO 0+739 ON BOTH SIDES (EL. 153.5m)
  - COARSE FILTER PLACEMENT APPROVED BETWEEN 0+385 TO 0+483, DOWNSTREAM SIDE (EL. 155.0m)
    - ROCKFILL PLATFORM HAS BEEN CLEANED TO THE SATISFACTION OF QA INSPECTOR BEFORE THE PLACEMENT OF COARSE FILTER MATERIAL (EXCESS MUD WAS REMOVED)
  - ROCKFILL PLACEMENT APPROVED BETWEEN 0+385 TO 0+483, UPSTREAM SIDE (EL. 155.0m)
  - FINE FILTER PLACEMENT APPROVED BETWEEN 0+490 TO 0+495 UP TO ELEVATION 159.0m
  - THE REMAINING PART OF THE LAKE SECTION (KEY TRENCH) IS BEING CLEANED BY 2 EXCAVATORS AT THE MOMENT. ONGOING.
  - ONGOING PLACEMENT OF FINE FILTER BETWEEN 0+727 TO 0+739 UP TO EL. 153.5m.



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
FOUNDATION (FOOTPRINT)	0+727 TO 0+739	APPROVED (SITS ON FRACTURED BEDROCK)
ROCKFILL PLACEMENT	0+727 TO 0+739	APPROVED
COARSE FILTER PLACEMENT	0+727 TO 0+739	APPROVED
11	0+385 TO 0+483, DOWNSTREAM	APPROVED
ROCKFILL PLACEMENT	0+385 TO 0+483, UPSTREAM	APPROVED
FINE FILTER PLACEMENT	0+490 TO 0+495	APPROVED
KEY TRENCH CLEANING	0+595 TO 0+615	ACCEPTABLE BUT SPOT CHECKS REQUIRED
FINE FILTER PLACEMENT	0+727 TO 0+739	ONGOING.

## SAFE AND SAFETY REMARKS

WEAR LIFE JACKET WHILE DOING MANUAL SURVEY ON THE BOAT.

Issued by :

*Mark J. J. J.*  
Signature

2018-08-22

Date

Verified by :

Signature

Date

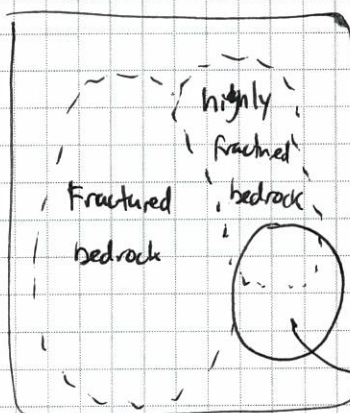
## SKETCH

EAST ABUTMENT FOUNDATION

northSouth

0+739

0+727



presence of ice lenses  
between fractures of bedrock





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SITE REPORT  
(Detailed)

20180822-DS-SR

Document number

Visit date: Aug 22, 2018 Time (Start/End): 6:00AM / 6:00PM Project No.: 658309 Prepared by: Tezera Fina Azmota

Project: WTD Construction Client: Agnico Eagle

Consultant: SNC-Lavalin Contractor: KCG

Weather: ☒ Sunny ☐ Cloudy ☒ Rain ☐ Storm ☒ Snow ☐ Glaze  
Wind: ☐ None gusts ☒ Light ☐ Moderate ☐ Strong, Temperature: 25 °C

Comments:

Appendix: ☐ Yes ☐ No Pictures ☐ Yes ☐ No Inspection report or other:

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

→ Observed foundation clean-up from station 0+595 to 0+615. Previous night shift QC/QA suggested that bedrock has been reached. But, spot check by QC/QA during day shift before approval, showed that lots of mud existed. Further clean-up was carried out, which still showed presence of mud. It was later thought that the mud/soft soil was being squeezed out of the lake bed material underneath the working platform. Hence, it was necessary to seal it by placing rockfill (as shown in the sketch on the next page). QA/QC mentioned that it would be okay to place additional rockfill to seal the

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No	Subject	Given to
	Squeezing out of the lake bed material into the cleaned out area (as suggested by the contractor) as long as the design dimensions of the coarse filter zone and the fine filter zone remained kept the same. Placing the rockfill material helped in the cleaning effort.	
→	Observed fine filter placement at 21:15m	
→	Observed rockfill placement	
→	Observed coarse filter placement.	



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
Foundation clean-up	0+595 to 0+615	Approved
Coarse filter placement	0+483 to 0+540 (d/s)	Approved
• to El. 155 m		
• to El. 157 m	0+390 to 0+400 (d/s)	Approved
Rockfill to El. 155	0+450 to 0+510 (d/s)	Approved
Fine filter to El. 157	0+495 to 0+530	Approved
Rockfill to El. 157	0+415 to 0+517 (u/s)	Approved
Coarse filter to El. 153.5	0+595 to 0+615 (u/s)	Approved

## SAFE AND SAFETY REMARKS

Issued by :

*[Signature]*  
Signature

Aug. 24, 2018.

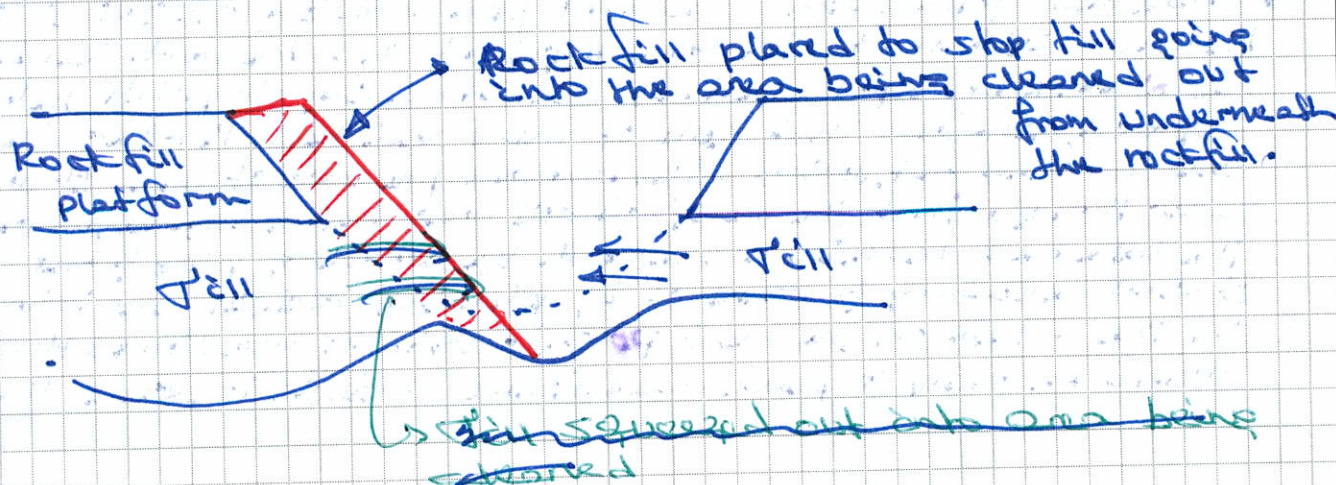
Date

Verified by :

Signature

Date

## SKETCH





2018 08 23 - NS - SR

Document number

2018-08-23 18:00/6:00 658309 M. SÉZÉQUEL  
Visit date Time (Start/End) Project No. Prepared by  
VTD CONSTRUCTION Agnico Eagle  
Project Client  
SNC-Lavalin KCG  
Consultant Contractor

Weather : ☐ Sunny ☒ Cloudy ☒ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong,

Temperature : ~ 0 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☐ Yes ☒ No Inspection report or other :

APPROVAL FORMS

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- COARSE FILTER PLACEMENT BETWEEN 0+595 TO 0+633 D/S AND 0+615 TO 0+633 U/S : MEETS THE SPECS
- FINE FILTER PLACEMENT BETWEEN 0+727 TO 0+739 UP TO EL. 153.5 m : MEETS THE SPECS
  - THE EXTENT OF FINE FILTER REACHES ST. 0+725 : AT THIS LOCATION, THERE IS A BERM THAT SEPARATES THE EAST ABUTMENT FROM THE LAKE. COARSE FILTER ON EACH SIDES REACH ST. 0+720. FOUNDATION CONDITION WAS NOT ASSESSED UNDER THOSE BACKFILLED AREAS.
- FINE FILTER PLACEMENT IN THE LAKE BETWEEN 0+595 TO 0+600 : MEETS THE SPECS.
- ROCKFILL PLACEMENT BETWEEN 0+395 TO 0+415, UPSTREAM UP TO EL. 157.0m : MEETS THE SPECS.
- ROCKFILL PLACEMENT BETWEEN 0+420 TO 0+450, DOWNSTREAM : ACCEPTED
  - THE MATERIAL AT THIS LOCATION WAS PLACED USING A SHOVEL BECAUSE THE ROCKFILL FOOTPRINT WAS TOO NARROW TO USE A BULLDOZER. THE QC REPRESENTATIVE TOLD THE OPERATOR TO PASS

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No	Subject	Given to
1	MANY TIMES WITH HIS SHOVEL (CAT 395D) ON THE ROCKFILL WHILE WAITING FOR TRUCKS. THE COMPACTION ACHIEVED USING THIS TECHNIQUE IS TO THE SATISFACTION OF QA/QC REPRESENTATIVES.	
2	→ LAKEBED (KEY TRENCH) CLEANING BETWEEN 0+635 TO 0+655. ONGOING.	



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
COARSE FILTER PLACEMENT	0+595 TO 0+633 U/S, 0+615 TO 0+633 D/S	APPROVED
FINE FILTER PLACEMENT	0+737 TO 0+739	APPROVED
"	0+575 TO 0+600	APPROVED
ROCKFILL PLACEMENT	0+395 TO 0+415, U/S	APPROVED
ROCKFILL PLACEMENT	0+430 TO 0+450, D/S	APPROVED
KEY TRENCH CLEANING	0+635 TO 0+655	ONGOING

## SAFE AND SAFETY REMARKS

NIGHTS ARE GETTING COLDER, MAKE SURE TO WEAR PROPER CLOTHING AND WARM UP IN THE PICKUP TRUCK IF REQUIRED.

Issued by :

*[Signature]*  
Signature

2018-08-23

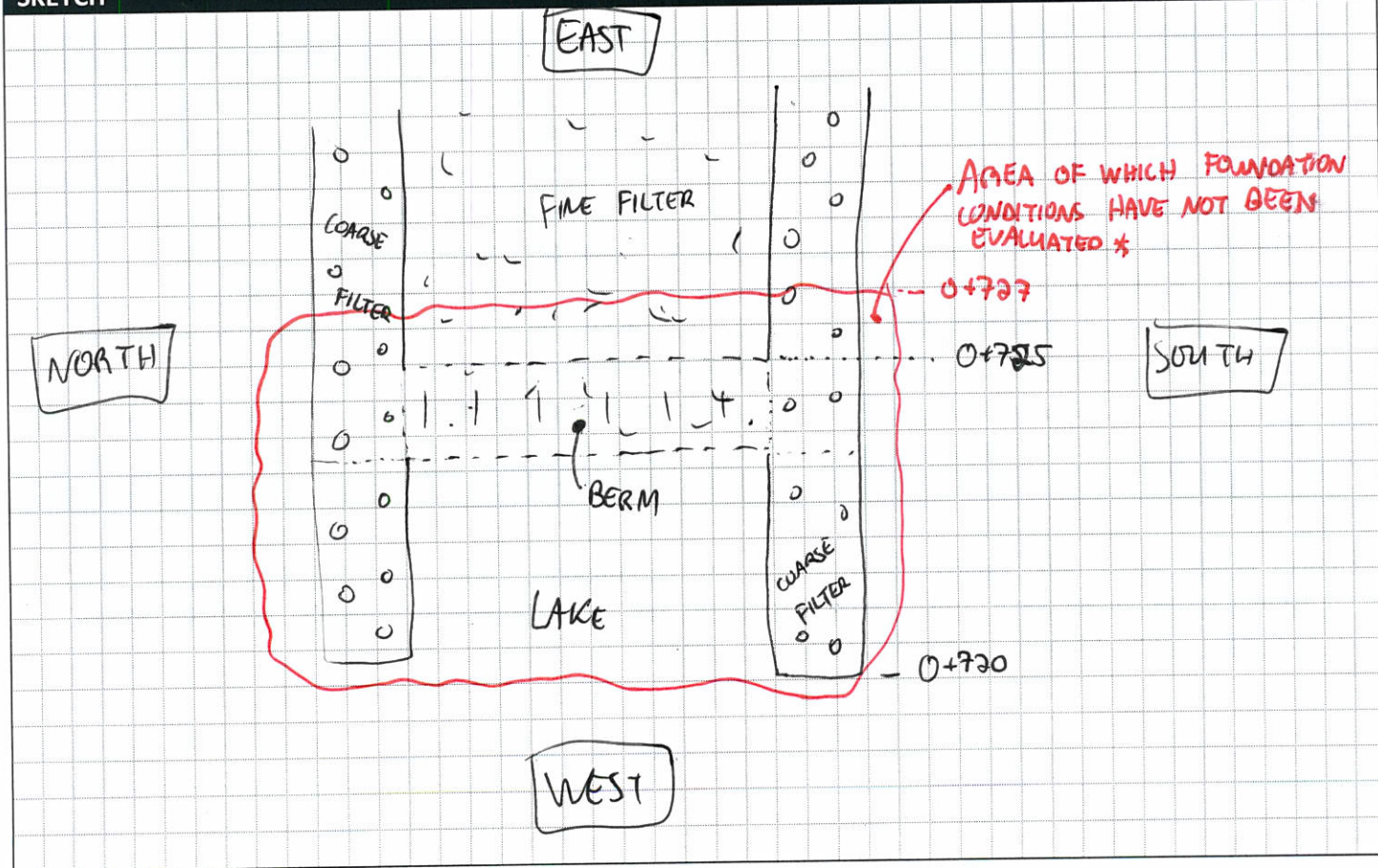
Date

Verified by :

\_\_\_\_\_  
Signature

Date

## SKETCH







SNC • LAVALIN

SITE REPORT  
(Detailed)

20180823-DS-SR

Document number

Aug. 23, 2018 6:00 AM / 6:00 PM 658309 Tezera Firew Azmaka

Visit date

Time (Start/End)

Project No.

Prepared by

Project

WTD Construction

Agnico Eagle

Client

SNC-Lavalin

Consultant

KCCG

Contractor

Weather :

☐ Sunny

☒ Cloudy

☐ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None  
gusts

☐ Light

☐ Moderate

☐ Strong,

Temperature : ~5°C °C

Comments :

Appendix :

☐ Yes

☐ No

Pictures

☐ Yes

☐ No

Inspection report or other :

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- Observed coarse fill placement from station 0+633 to 0+655 to El. 153.5m in the lake trench.
- observed placement of fine filter inside the trench from station 0+600 to 0+625.
- observed foundation clean-up from station 0+635 to station 0+655. the foundation bedrock seems to have been reached. The bedrock is free of ice and fractured.
- Observed foundation clean-up between stations 0+655 and 0+675 and bedrock seems to have been reached.

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

- observed rock fill placement to El. 157m. Extent of bedrock rock fill compared to the coarse filter material on the downstream side needs to be checked after getting the cross-section drawings. ~~From the~~ It was mentioned in the daily meetings, by the drafts person, that at some sections of rock fill placement on the downstream side, the rock fill could be on top of sitting on top of the coarse filter, as shown in the sketch in the next page. This was later found out to be true after receiving the cross-section drawings for stations between 0+355 to 0+385. Refer to attachment.

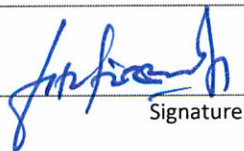


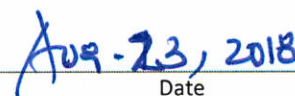
## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
→ 0+63 Foundation cleanup	0+635 to 0+655	acceptable
→ Foundation cleanup	0+655 to 0+675	acceptable
→ Coarse filter placement to E.L. 153.5	0+633 to 0+655	acceptable
→ Fine filter placement	0+600 to 0+625	acceptable

## SAFE AND SAFETY REMARKS

Issued by :


  
Signature


  
Date

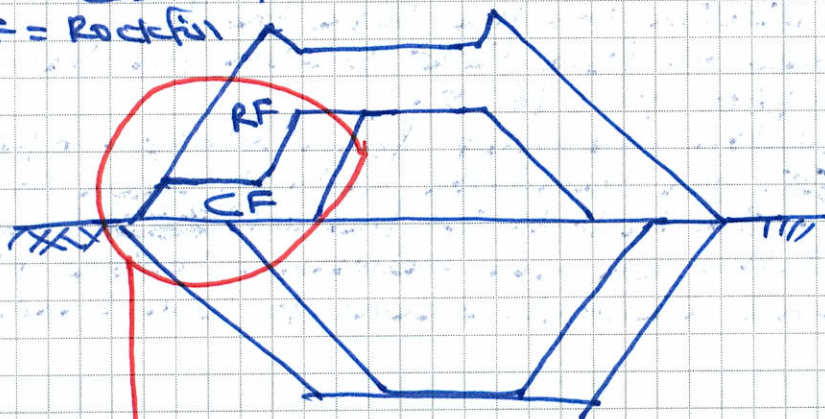
Verified by :

Signature

Date

## SKETCH

CF = coarse filter  
RF = Rockfill

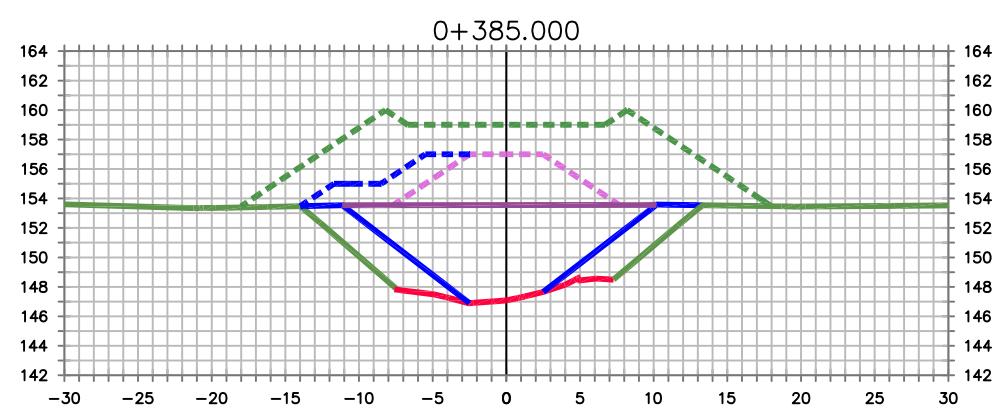
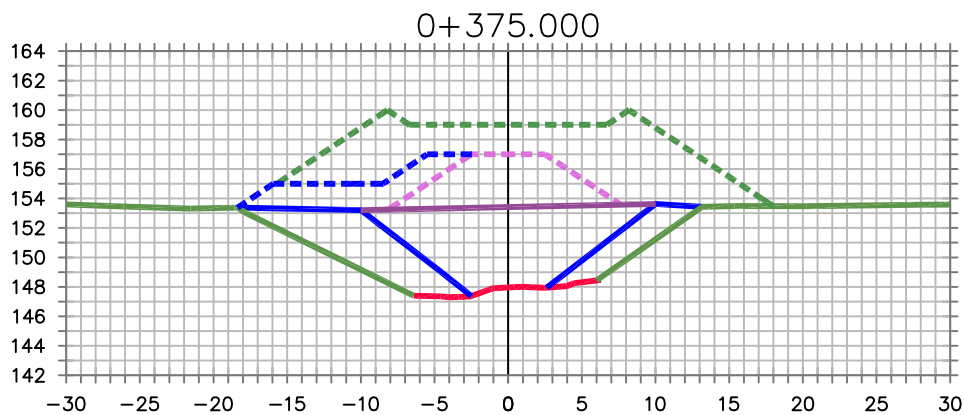
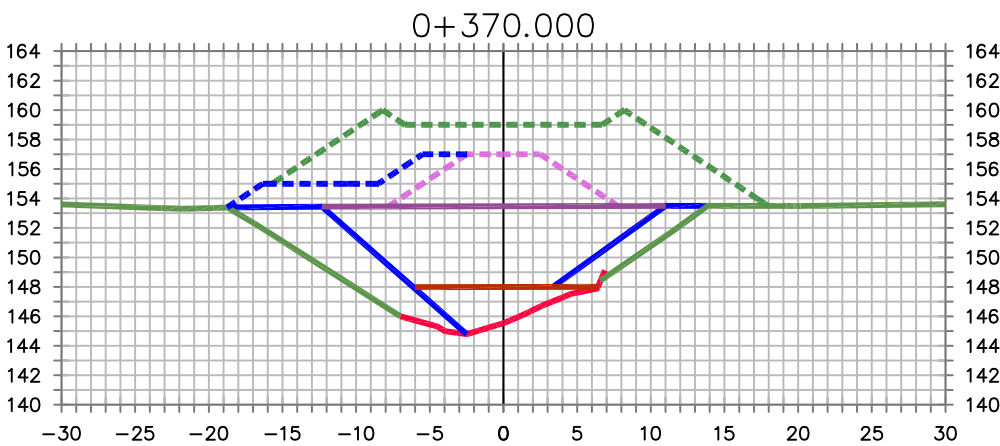
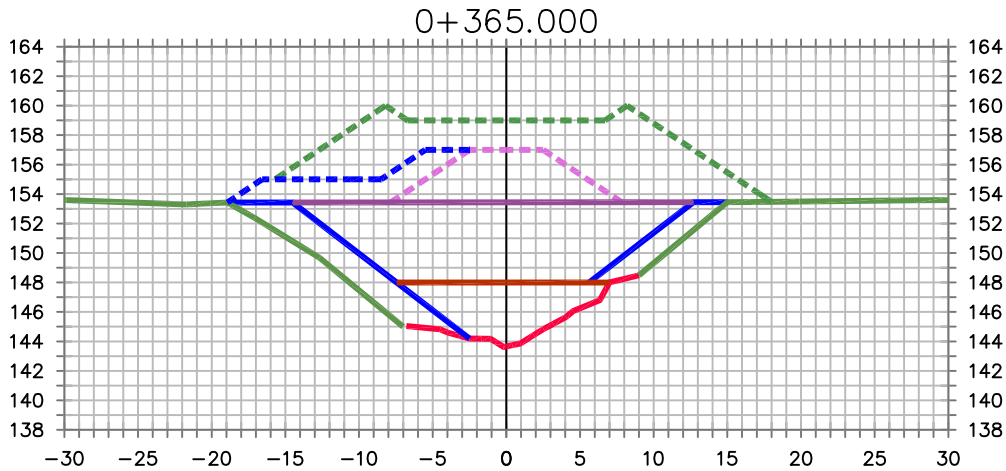
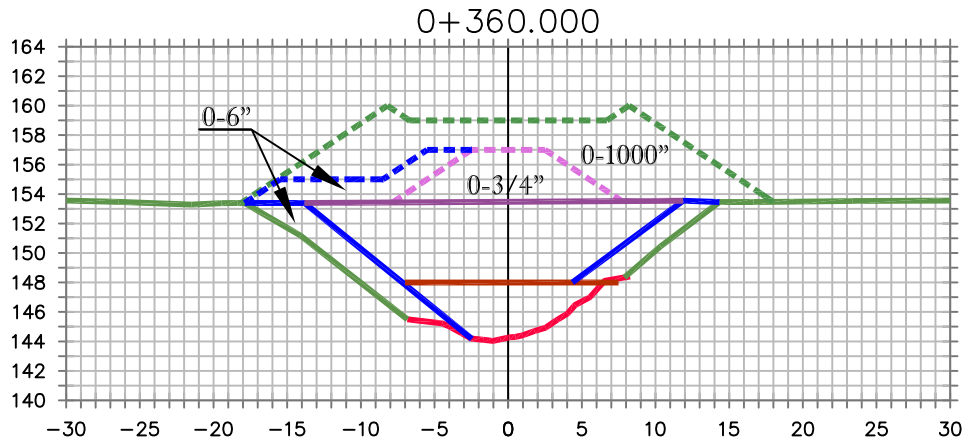
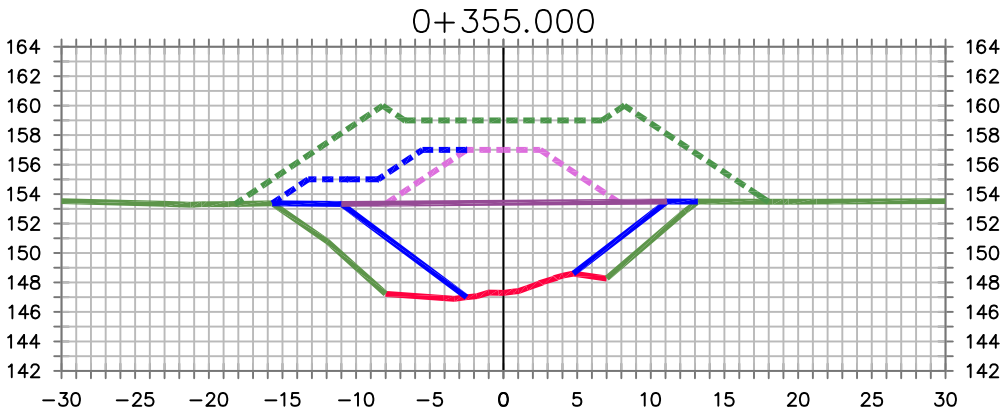


→ compare this with cross-section F-F  
at station 0+350 in construction  
drawings.



SECTION VIEW 0+355 TO 0+385  
WHALE TAIL DIKE CONSTRUCTION - WHALE TAIL  
CONTRACT # 11-811

c:\Dropbox\Dropbox (Groupe Gilbert)\arcentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMQ DIKES\CON-SK (METHOD AND EXTERNAL DRAWING)\CON-SK-013-04-355\_TO\_04-385.dwg



KIVALLIQ CONTRACTORS  
GROUP LTD

PREPARED BY : MARC-ANDRÉ BLACKBURN  
DATE : 23-08-2018  
CON-SK-013





SNC • LAVALIN

**SITE REPORT**  
(Detailed)

20180804-NS-SR

Document number

2018-08-24 18:00/6:00 658309 M. JÉZÉQUEL  
Visit date Time (Start/End) Project No. Prepared by

W TO CONSTRUCTION Agnico Eagle  
Project Client

SNC-Lavalin KCG  
Consultant Contractor

Weather : ☐ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze  
Wind : ☐ None gusts ☐ Light ☐ Moderate ☒ Strong, Temperature : ~ 0 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☐ Yes ☒ No Inspection report or other :

Approval forms

**ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)**

- COARSE FILTER PLACEMENT OBSERVED BETWEEN 0+655 TO 0+674 : MEETS THE SPECIFICATIONS
- FINE FILTER PLACEMENT IN THE TRENCH OBSERVED BETWEEN 0+625 TO 0+647 : MEETS THE SPECIFICATIONS
  - CLEANING IN FRONT OF THE FINE FILTER PLACEMENT (BOTTOM OF THE LAKE) WITH A BUCKET EQUIPPED WITH A LIP TO THE SATISFACTION OF QA/QC REPRESENTATIVES.
- FINE FILTER PLACEMENT UP TO AN ELEVATION OF 157.0m OBSERVED BETWEEN 0+530 TO 0+590 : MEETS THE SPECIFICATIONS
- QA INSPECTOR NOTED THAT SAMPLE No. FF-AMQ-066 TENDS TO ERR ON THE COARSER SIDE AND SHOWS NON-CONFORMANCES ON 28mm AND 0.075mm SIEVES (% PASSING IS TOO LOW)
  - AS REQUESTED BY THE QA INSPECTOR, THE QC REPRESENTATIVE TOOK ANOTHER SAMPLE OF FINE FILTER IN THE SAME AREA THAN FF-AMQ-066 (ST. 0+795, EL. 153.5m) FOR FURTHER COMPARISON.

**SITE GUIDELINES (guidelines, memos, modification proposals, etc.)**

Who	Subject	Given to
→	COARSE FILTER PLACEMENT UP TO AN ELEVATION OF 155.0m OBSERVED BETWEEN 0+540 TO 0+570 ON THE DOWNSTREAM SIDE: MEETS THE SPECIFICATIONS.	
→	LAKEBED CLEAN-UP IN THE KEY TRENCH BETWEEN 0+675 TO 0+715: ONGOING. <ul style="list-style-type: none"> <li>• FROZEN LAKEBED SEDIMENTS WERE OBSERVED AT 0+715</li> </ul>	



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
COARSE FILTER PLACEMENT (KEY TRENCH)	0+655 TO 0+674, BOTH SIDES	APPROVED
COARSE FILTER PLACEMENT	0+540 TO 0+570, EL. 155m	APPROVED
FINE FILTER PLACEMENT (KEY TRENCH)	0+625 TO 0+647	APPROVED
FINE FILTER PLACEMENT	0+530 TO 0+590	APPROVED
KEY TRENCH CLEANING	0+675 TO 0+715	ONGOING.

## SAFE AND SAFETY REMARKS

DRIVE CAREFULLY WITH PICKUP TRUCK ON THE DIKE AS HAULING TRUCKS CAUSE DAMAGE TO ACCESS ROADS. REDUCE THE SPEED.

Issued by :

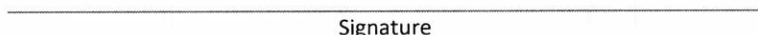


Signature

2018-08-24

Date

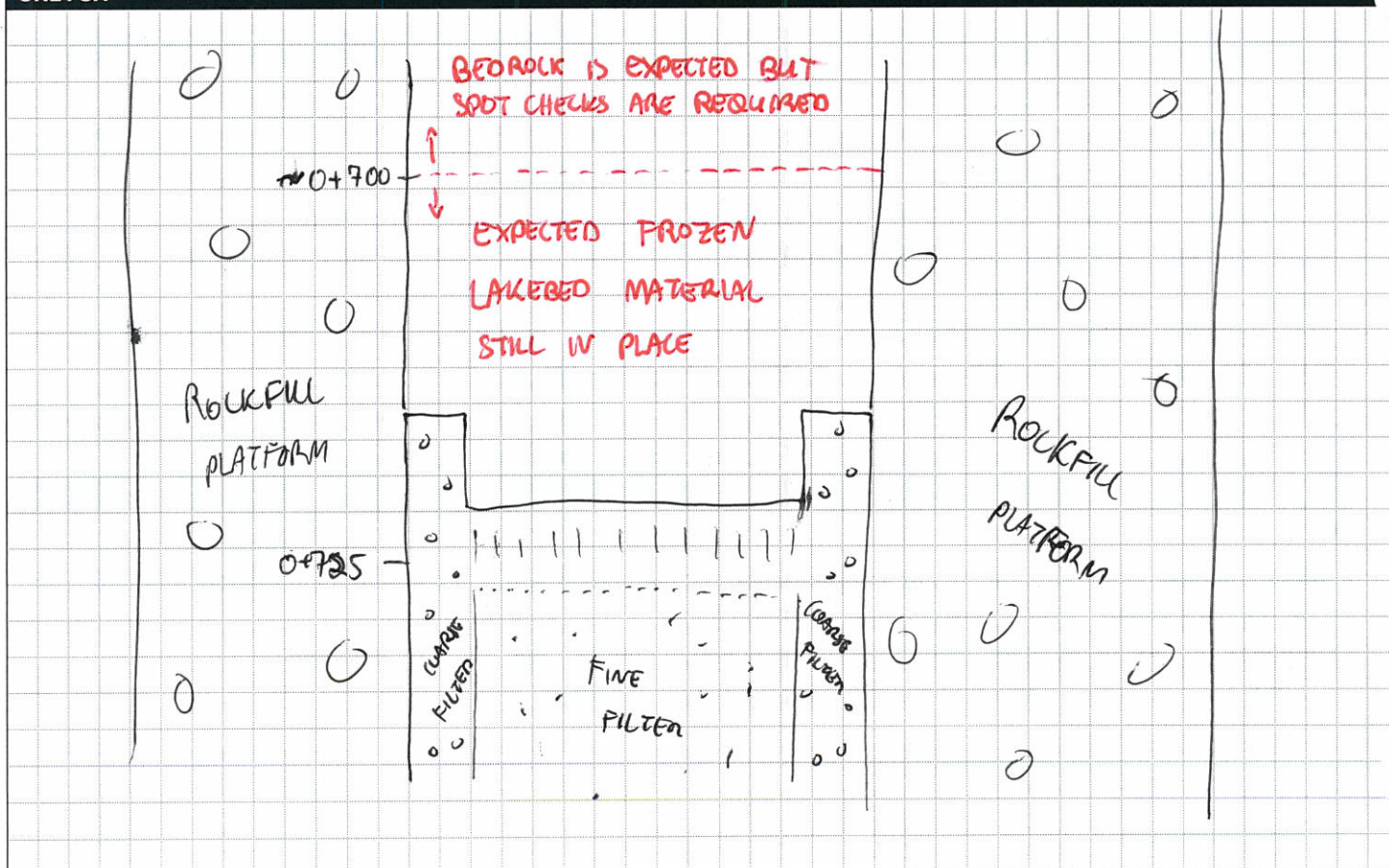
Verified by :



Signature

Date

## SKETCH







SNC-LAVALIN

SITE REPORT  
(Detailed)

20180824-DJ-SR

Document number

Visit date: Aug 24, 2018 Time (Start/End): 6:00AM/6:00PM Project No.: 658309 Prepared by: Tezera Frew Azmadel

Project: SNC-Lavalin Client: Agnico Eagle

Consultant: SNC-Lavalin Contractor: KGG

Weather: ☐ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind: ☐ None gusts ☒ Light ☐ Moderate ☐ Strong,

Temperature: -3 °C

Comments:

Appendix: ☐ Yes ☐ No Pictures ☐ Yes ☐ No Inspection report or other:

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- observed foundation clean-up between stations 0+675 and 0+705. Foundation was cleaned up and seems to be free of ice and mud.
- observed coarse filter placement between stations 0+674 and 0+702, to El. 153.5m.
- sample was collected from this area at station 0+692, N
- observed fine filter placement between stations 0+647 and 0+673. It is going well. This is to El. 153.5m
- observed fine filter placement to El. 157m between stations 0+590 and 0+625

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

- No Subject Given to
- observed coarse filter placement to El. 155m and El. 157m between stations 0+500 and 0+600 (for El. 155m) and between stations 0+410 and 0+520 (for El. 157m).
- observed foundation clean-up on the lake trench between stations 0+705 to 0+715. There seems to be frozen material in this area. clean-up is not complete. It will continue during the night shift.



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
Foundation/french clean-up	0+675 to 0+705	- acceptable
Coarse filter to El. 153.5 ~	0+674 to 0+702	- acceptable
Fine filter placement to El. 153.5 ~	0+674 to 0+673	- acceptable
Fine filter placement to El. 157m	0+590 to 0+625	- acceptable
Coarse filter placement to El. 155 ~	0+570 to 0+600	- acceptable
Coarse filter placement to El. 157m	0+410 to 0+520	- acceptable

# SAFE AND SAFETY REMARKS

Issued by :

*[Signature]*  
Signature

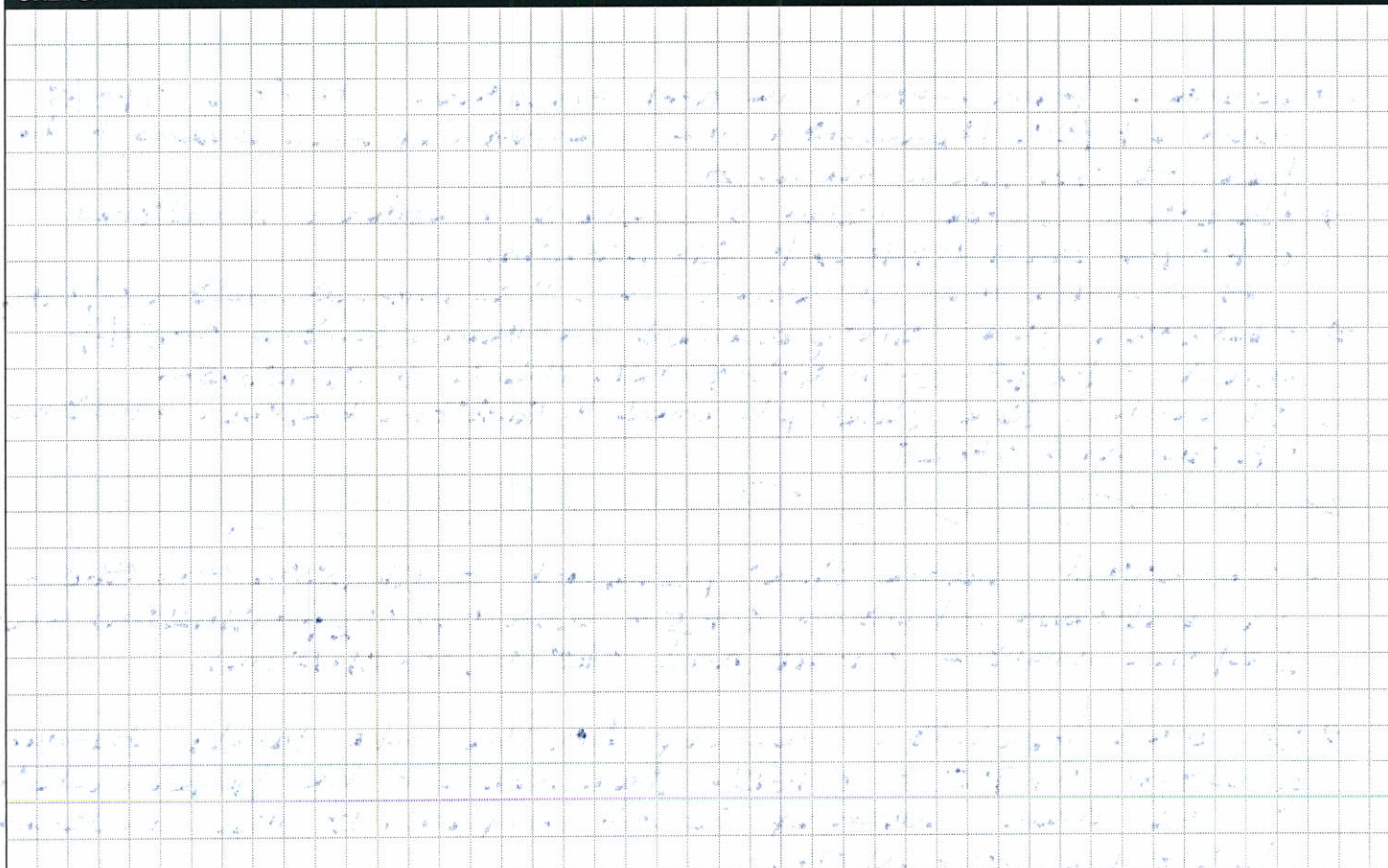
*Aug 24, 2018*  
Date

Verified by :

Signature

Date

# SKETCH





20180825-NS-SR

Document number

Visit date: 2018-08-25      Time (Start/End): 18:00/6:00      Project No.: 658309      Prepared by: M. JÉZÉQUEL  
 Project: WTD CONSTRUCTION      Client: Agnico Eagle  
 Consultant: SNC-Lavalin      Contractor: KCG

Weather : ☐ Sunny    ☒ Cloudy    ☐ Rain    ☐ Storm    ☐ Snow    ☐ Glaze  
 Wind : ☐ None gusts    ☒ Light    ☐ Moderate    ☐ Strong,  
 Temperature : 2 °C

Comments : \_\_\_\_\_

Appendix : ☒ Yes    ☐ No    Pictures ☒ Yes    ☐ No    Inspection report or other : \_\_\_\_\_

**ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)**

- FINAL SLOPES OF NATURAL GROUND ON BOTH UPSTREAM/DOWNSTREAM SIDES AT THE EAST ABUTMENT BETWEEN 0+740 TO 0+797 WERE APPROVED BY QA/QC REPRESENTATIVES
  - REFER TO APPROVAL FORM 20180825-NS-01 FOR DETAILS
  - COARSE FILTER MATERIAL WAS PLACED AGAINST THE DOWNSTREAM NATURAL SLOPE TO PREVENT NATURAL GROUND FROM THAWING AND FALLING INTO THE EXCAVATION. (WITH A 1H:1V SLOPE).
- ROCKFILL PLACEMENT ON THE UPSTREAM NATURAL SLOPE APPROVED BETWEEN 0+740 TO 0+797 FOLLOWING THE NATURAL GROUND ELEVATION
- FINE FILTER PLACEMENT IN THE KEY TRENCH APPROVED BETWEEN 0+693 TO 0+695
- FINE FILTER PLACEMENT UP TO EL. 159.0m APPROVED BETWEEN 0+625 TO 0+655.

**SITE GUIDELINES (guidelines, memos, modification proposals, etc.)**

No	Subject	Given to
1	OBSERVED CLEAN-UP OF KEY TRENCH IN THE LAKE SECTION BETWEEN ~0+705 TO 0+715. FROZEN LAKEBED MATERIAL (SANDY SOIL) WAS REMOVED FROM THE LAKE FLOOR. STILL ONGOING.	



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
FINAL LATERAL SLOPES (NATURAL GROUND)	0+740 TO 0+747	APPROVED
ROCKFILL PLACEMENT	0+740 TO 0+747, UPSTREAM	APPROVED
FINE FILTER PLACEMENT (KEY TRENCH)	0+693 TO 0+695	APPROVED
FINE FILTER PLACEMENT	0+695 TO 0+655 (E.L. 157.0m)	APPROVED
KEY TRENCH CLEAN-UP	~0+705 TO 0+715	ONGOING.

# SAFE AND SAFETY REMARKS

BEWARE OF CO-ACTIVITIES WHEN APPROVING FOUNDATION CONDITIONS: LOTS OF TRUCKS AND EXCAVATORS WORKING IN A NARROW AREA.

Issued by :

*[Signature]*

Signature

2018-08-25

Date

Verified by :

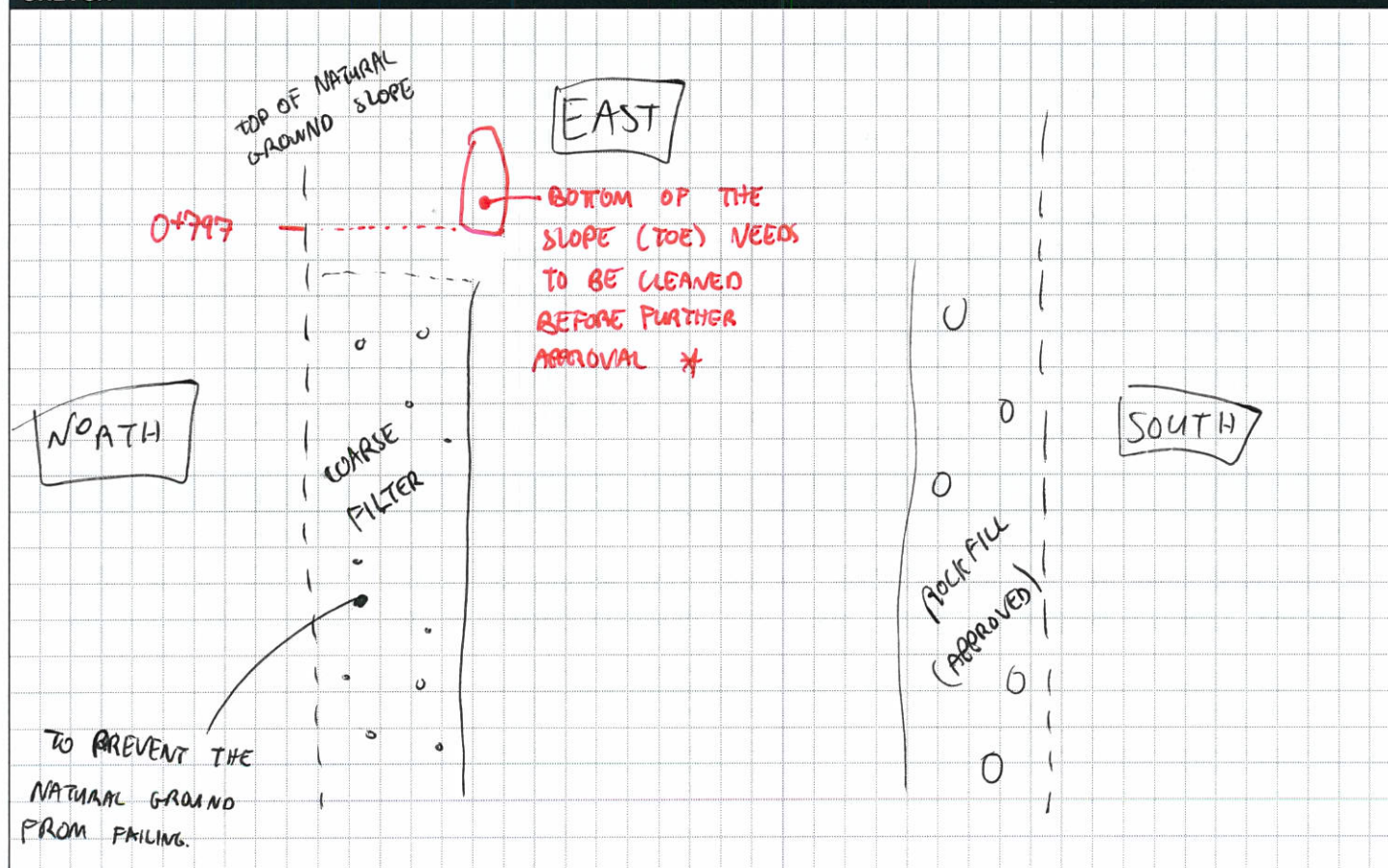
*[Signature]*

Signature

*[Signature]*

Date

# SKETCH







SNC • LAVALIN

SITE REPORT  
(Detailed)

20180825-DS-JR

Document number

Aug. 23, 2018 6:00AM / 6:00PM 658309 Tezera Frew Azmaha

Visit date

Time (Start/End)

Project No.

Prepared by

WTD Construction

Project

Agnico Eagle

Client

SNC-Lavalin

Consultant

ICCG

Contractor

Weather :

☒ Sunny

☒ Cloudy

☐ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None gusts

☒ Light

☐ Moderate

☐ Strong,

Temperature : ~ 7 °C

Comments :

Appendix :

☐ Yes

☐ No

Pictures

☐ Yes

☐ No

Inspection report or other :

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

→ observed cleaning of trench in the lake. The cleaning was carried out between stations 0+705 and 0+727. This is the first foundation cleaning in the lake. Cleaning in this area took much time since there was a frozen soil condition.

→ observed placement of coarse filter material against the natural slope in the downstream side of the east abutment area between sections 0+797 and 0+835. The natural slopes were cleaned and restored before placing the coarse filter material.

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

→ observed placement of fine filter material between sections 0+815 to 0+835 to El. 157m.

→ observed placement of rockfill material to El. 157m on the upstream side between stations 0+797 and 0+835.

→ observed placement of coarse filter material on the upstream side to El. 157m between stations 0+740 and 0+835.



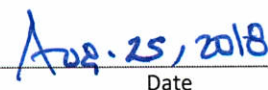
**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
→ Placement of Rockfill to El. 157 (W/S)	0+797 to 0+835	Accepted
→ coarse filter placement to El. 157 m (W/S)	0+740 to 0+835	Accepted
→ Fine filter placement to El. 157	0+815 to 0+835	Accepted
→ Foundation clean-up	0+705 to 0+727	Accepted
→ coarse filter placement (d/s)	0+797 to 0+835	Accepted

**SAFE AND SAFETY REMARKS**

Issued by :

  
Signature

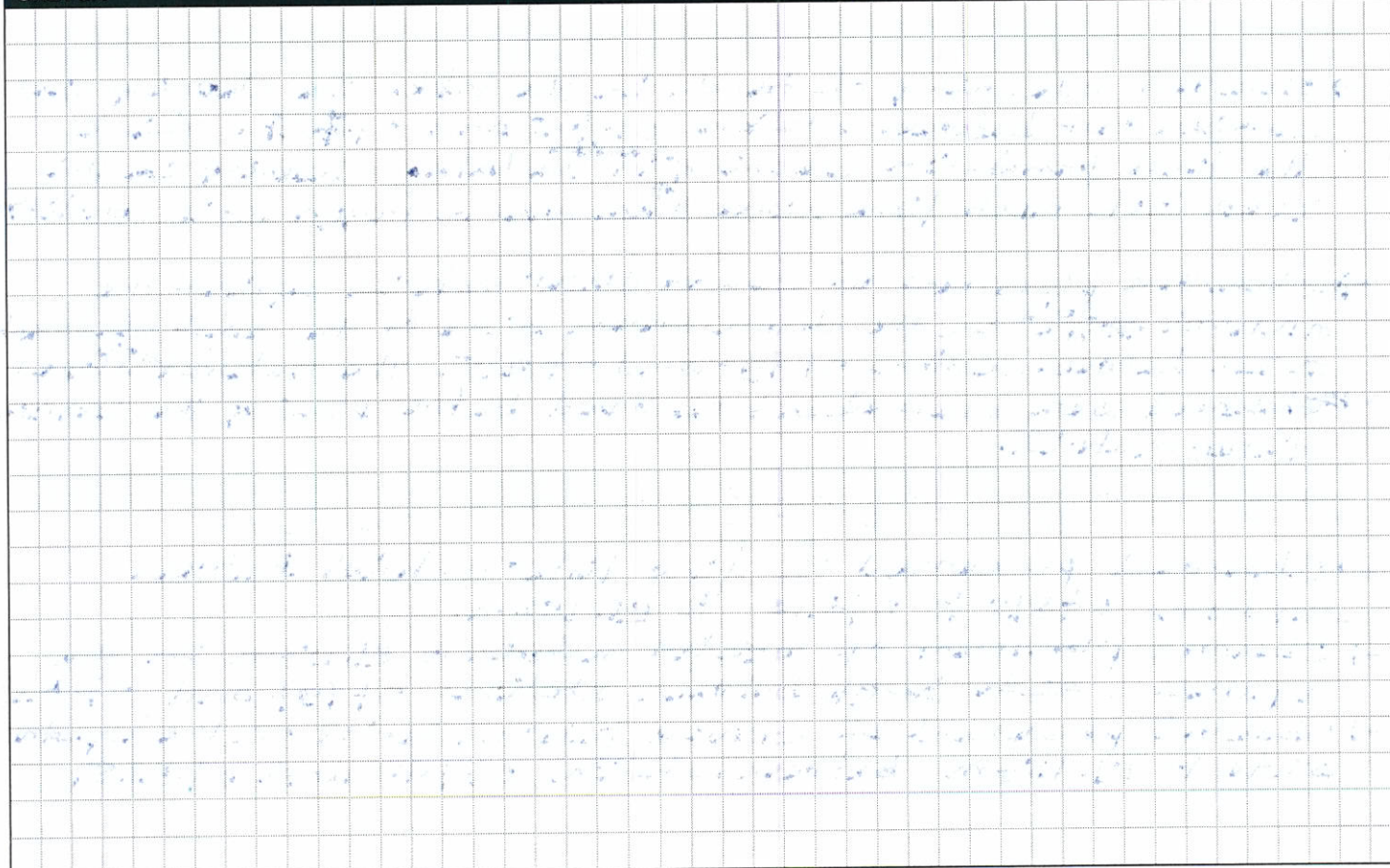
  
Date

Verified by :

Signature

Date

**SKETCH**







SNC • LAVALIN

SITE REPORT  
(Detailed)

20180826-NS-SR

Document number

Visit date: 2018-08-26 Time (Start/End): 18:00/6:00 Project No.: 658309 Prepared by: M. JÉZÉQUEL

Project: WTD CONSTRUCTION Client: Agnico Eagle

Consultant: SNC-Lavalin Contractor: KCG

Weather: ☐ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze  
Wind: ☐ None gusts ☒ Light ☐ Moderate ☐ Strong, Temperature: -1 °C

Comments:

Appendix: ☒ Yes ☐ No Pictures: ☒ Yes ☐ No Inspection report or other:

Approval forms

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- FINE FILTER PLACEMENT AT THE EAST ABUTMENT BETWEEN 0+748 TO 0+815 FOLLOWING THE ELEVATION OF THE NATURAL GROUND UPSTREAM: APPROVED  
• HOWEVER, SOME FINE FILTER MATERIAL COULD BE ADDED TO MEET THE DRAWINGS (REFER TO THE SKETCH ON PAGE 2)
- COARSE FILTER PLACEMENT UP TO EL. 155.0m BETWEEN 0+600 TO 0+652: APPROVED
- COARSE FILTER PLACEMENT (KEY TRENCH) BETWEEN 0+702 TO 0+728, NORTH SIDE: APPROVED
- ROCKFILL PLACEMENT: LINES AND GRADES TO BE CONFIRMED WITH THE AS-BUILT SURVEY (EL. 157.0m)
  - SOUTH SIDE: 0+555 TO 0+626
  - NORTH SIDE: 0+508 TO 0+583

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No	Subject	Given to



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
FINE FILTER PLACEMENT (EL. VARIES)	0+748 TO 0+815	APPROVED BUT REFER TO SKETCH
COARSE FILTER PLACEMENT (EL. 155.0m)	0+600 TO 0+652	APPROVED
COARSE FILTER PLACEMENT (KEY TRENCH)	0+702 TO 0+728, NORTH SIDE	APPROVED
ROCKFILL PLACEMENT (EL. 157.0m)	SOUTH SIDE: 0+555 TO 0+626 NORTH SIDE: 0+508 TO 0+583	PENDING (AS BUILT SURVEYS TO BE ISSUED)

# SAFE AND SAFETY REMARKS

FROZEN CONDITIONS: FLOOR CAN BE SLIPPERY, WATCH YOUR STEP.

Issued by :

*[Signature]*

Signature

2018-08-26

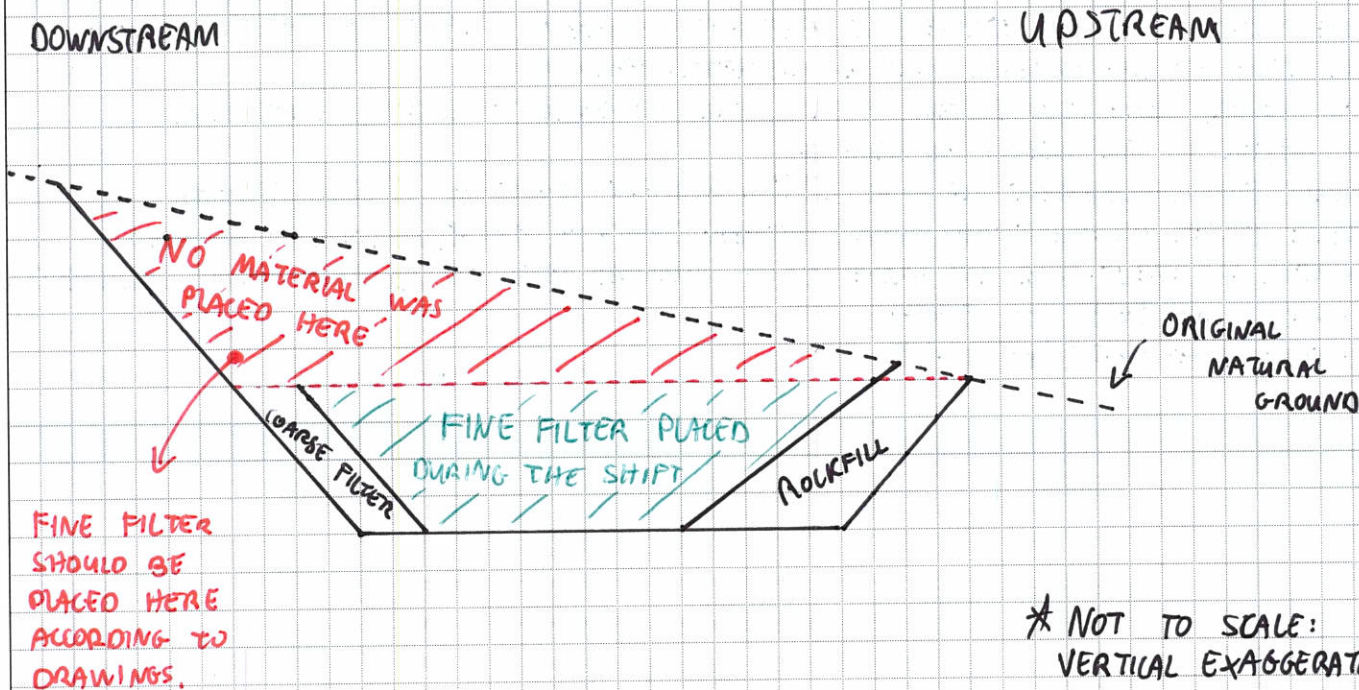
Date

Verified by :

Signature

Date

# SKETCH







SNC-LAVALIN

SITE REPORT  
(Detailed)

20180826-DS-JR

Document number

Aug. 26, 2018 6:00 AM / 6:00 PM 658309 Tezera Faw Azmat

Visit date

Time (Start/End)

Project No.

Prepared by

CITD Construction

Project

Agnico Eagle

Client

SNC-Lavalin

Consultant

ICG

Contractor

Weather :

☒ Sunny

☐ Cloudy

☐ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None

gusts

☒ Light

☐ Moderate

☐ Strong,

Temperature : ~ 10 °C

Comments :

Appendix :

☐ Yes

☐ No

Pictures

☐ Yes

☐ No

Inspection report or other :

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- Observed fine filter placement in the trench to El. 153.5 m between stations 0+695 and 0+721. This is the final section of the key trench. The key trench is now ~~fully~~ completely filled with fill materials.
- Observed fine filter ~~placement~~ placement to El. 157 m in the east abutment area between stations 0+738 and 0+805.
- Observed coarse filter placement to El. 153.5 m between stations 0+702 and 0+728.
- Attended 3 weeks meeting. (Refer to next page for issues raised)

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

- Observed rock fill placement between stations approximately between 0+702 to 0+728 (to El. 153.5 m) - observed fine filter
- Observed coarse filter placement in the east abutment area to El. 157 m between stations 0+745 and 0+805 on the downstream side. Refer to the sketch in the next page.
- Observed rock fill placement to El. 157 m between stations 0+625 and 0+583 (heading west) on the downstream side.
- Observed coarse filter placement between stations 0+520 and 0+645 to El. 157 m on the downstream side.



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
Coarse filter (upstream) El. 153.5	0+702 to 0+728	Accepted
Rock fill CULS to El. 153.5	~ 0+702 to 0+728	Accepted
Fine filter to El. 157m	0+738 to 0+805	Accepted
Coarse filter (d/s) to El. 157	0+745 to 0+805	Accepted
Fine filter to El. 153.5	0+695 to 0+728	Accepted
Rock fill to El. 157 (d/s)	0+625 to 0+583	Accepted
Coarse filter to El. 157 (d/s)	0+520 to 0+645	Accepted

## SAFE AND SAFETY REMARKS

Issued by :

Tezera Fines  
Signature

Aug. 26, 2018  
Date

Verified by :

Signature

Date

## SKETCH

→ Points Raised in weekly meeting:

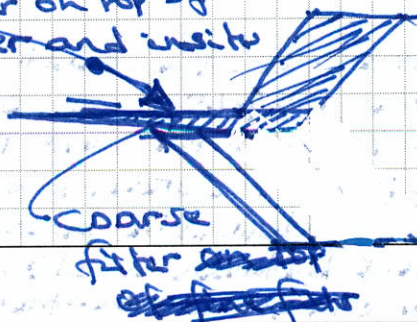
→ question was raised from Hemi Drilling personnel on life span of the CB mix. they want to know what the life span should be.

→ Issues were raised regarding the intersection between the secant pile walls and the frozen east abutment: there is a concern that the abutment may thaw and result in preferential flow path.

→ Points Raised in Daily Meeting:

→ SNC and client agreed that <sup>sections between</sup> 0+355 to 0+388 is not a priority for this weekend.

Coarse filter on top of fine filter and inside soil



Coarse filter on top of fine filter



20180827-NS-SR

Document number

2018-08-27 18:00/6:00 658309 M. JÉZÉQUEL  
Visit date Time (Start/End) Project No. Prepared by

WTO CONSTRUCTION Agnico Eagle  
Project Client

SNC-Lavalin KCG  
Consultant Contractor

Weather : ☒ Sunny ☐ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None ☒ Light ☐ Moderate ☐ Strong, gusts Temperature : 0 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☒ Yes ☐ No Inspection report or other :

### APPROVAL FORMS

#### ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- \* AFTER DISCUSSIONS WITH DAY SHIFT QA INSPECTOR AND FURTHER VERIFICATIONS WITH THE SURVEYOR, IT WAS CONCLUDED THAT THE BEDROCK FOUNDATION BETWEEN THE LAKE SECTION AND THE EAST ABUTMENT HAS BEEN EVALUATED AND WAS TO THE SATISFACTION OF QA/QC REPRESENTATIVES. HENCE, THE SKETCH OF DAILY REPORT 20180823-NS-SR AND ITS STATEMENT CAN BE DISCARDED \*
- QA INSPECTOR COMPARED A SECOND SAMPLE OF FINE FILTER TAKEN AT ST. 0+775, EL. 153.5m (FF-AMQ-079) WITH A PREVIOUS SAMPLE THAT WAS TOO COARSE (FF-AMQ-066) / REFER TO 20180824-NS-SR SITE REPORT
- SAMPLE FF-AMQ-079 MEETS THE REQUIRED SPECIFICATIONS (GRADATION CURVE).
- OBSERVED FINE FILTER PLACEMENT UP TO EL. 154.2m BETWEEN 0+317 TO 0+383 : MEETS THE SPECS.
- THIS SECTION IS GOING TO BE DYNAMICALLY COMPACTED SINCE THE BOTTOM OF THE KEY TRENCH IS MUCH DEEPER THAN EXPECTED BETWEEN THOSE STATIONS (FIRST COMPACTION AT EL. 154.2 m)

#### SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

- OBSERVED COARSE FILTER PLACEMENT UP TO EL. 154.2m BETWEEN 0+317 TO 0+383 : MEETS THE SPECS.
- THE WIDTH OF COARSE FILTER AT THAT LOCATION IS SIGNIFICANT DUE TO THE DEPTH OF THE KEY TRENCH: THERE IS BARELY ANY ROCKFILL THAT CAN BE PLACED ON THE PLATFORM AT 153.5m ON THE DOWNSTREAM SIDE WHILE RESPECTING OVERALL WIDTH OF THE DIKE (AS SHOWN ON SKETCH OF 20180823-NS-SR). → REFER TO SKETCH
- OBSERVED ROCKFILL PLACEMENT UP TO EL. 157.0m BETWEEN 0+625 TO 0+700 : APPROVED
- OBSERVED COARSE FILTER PLACEMENT UP TO EL. 155.0m BETWEEN 0+652 TO 0+695 : APPROVED
- OBSERVED FINE FILTER PLACEMENT UP TO EL. 157.0m BETWEEN 0+655 TO 0+740 : APPROVED
- OBSERVED ROCKFILL PLACEMENT (EAST ABUTMENT) UP TO EL. 157.0m BETWEEN 0+756 TO 0+777 : APPROVED



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
FINE FILTER PLACEMENT EL. 154.2m	0+317 TO 0+383	APPROVED
COARSE FILTER PLACEMENT EL. 154.2m	0+317 TO 0+383 (NORTH)	APPROVED
ROCKFILL PLACEMENT EL. 157.0m	0+625 TO 0+700	APPROVED
COARSE FILTER PLACEMENT, EL. 155.0m	0+652 TO 0+695 (NORTH)	APPROVED
FINE FILTER PLACEMENT EL. 157.0m	0+655 TO 0+740	APPROVED
ROCKFILL PLACEMENT (EAST ABUT.) EL. 157.0	0+756 TO 0+797	APPROVED

## SAFE AND SAFETY REMARKS

THE SPACE TO WORK ON THE DIKE IS REDUCED: BEWARE OF TRUCKS CIRCULATING ON THE DIKE AND STAY OUT OF THEIR WAY

Issued by :



Signature

2018-08-27

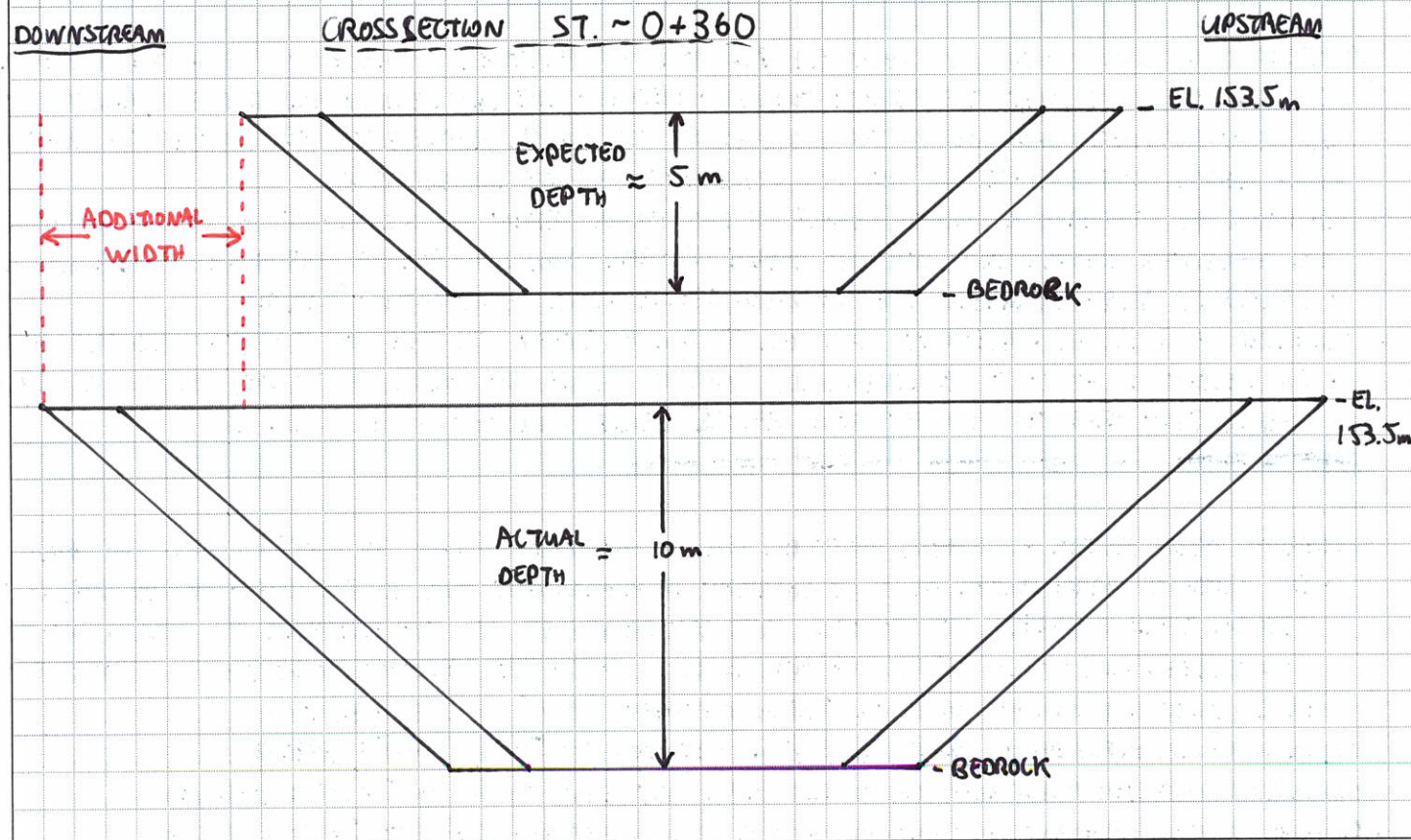
Date

Verified by :

Signature

Date

## SKETCH







SNC • LAVALIN

**SITE REPORT**  
(Detailed)

20180821-DS-SR

Document number

Aug. 27, 2018

Visit date

6:00 AM / 6:00 PM

Time (Start/End)

658309

Project No.

Tezera Firew Azmeh

Prepared by

WTD Construction

Project

Agnico Eagle

Client

SNC-Lavalin

Consultant

ICCG

Contractor

Weather :

☒ Sunny

☐ Cloudy

☐ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None  
gusts

☐ Light

☐ Moderate

☐ Strong,

Temperature : ~ 13 °C

Comments :

Appendix :

☐ Yes

☐ No

Pictures

☐ Yes

☐ No

Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Construction is progressing slowly since there is a crew change (shortage in ~~new~~ operators) due to rotation of crews.
- observed rock fill placement to El. 155m between stations ~ 0+700 and 0+755 (downstream) and between stations 0+634 and 0+677 (upstream)
- observed rock fill placement in the area where dynamic compaction will be started soon. The rock fill was placed to ~ El. 154.5m between stations 0+340 and 0+360 (on down stream side) and between 0+320 and 0+355 (upstream)

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No	Subject	Given to
→	observed coarse filter placement to El. 155m between stations 0+695 and 0+755	
→	observed coarse filter placement to El. 157 between stations 0+689 and 0+752	



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
Coarse filter, El. 155 (d/s)	0+695 to 0+755	Accepted
Coarse filter to El. 154 (d/s)	0+689 to 0+752	Accepted
Rockfill to El. 155 (d/s)	0+700 to 0+755	Accepted
Rockfill to El. 155 (u/s)	0+634 to 0+677	Accepted
Rockfill to El. 154.5 (d/s)	0+340 to 0+360	Accepted
Rockfill to El. 154.5 (d/s)	0+320 to 0+355	Accepted

## SAFE AND SAFETY REMARKS

Issued by :

Tezera 

Signature

Aug. 27, 2018

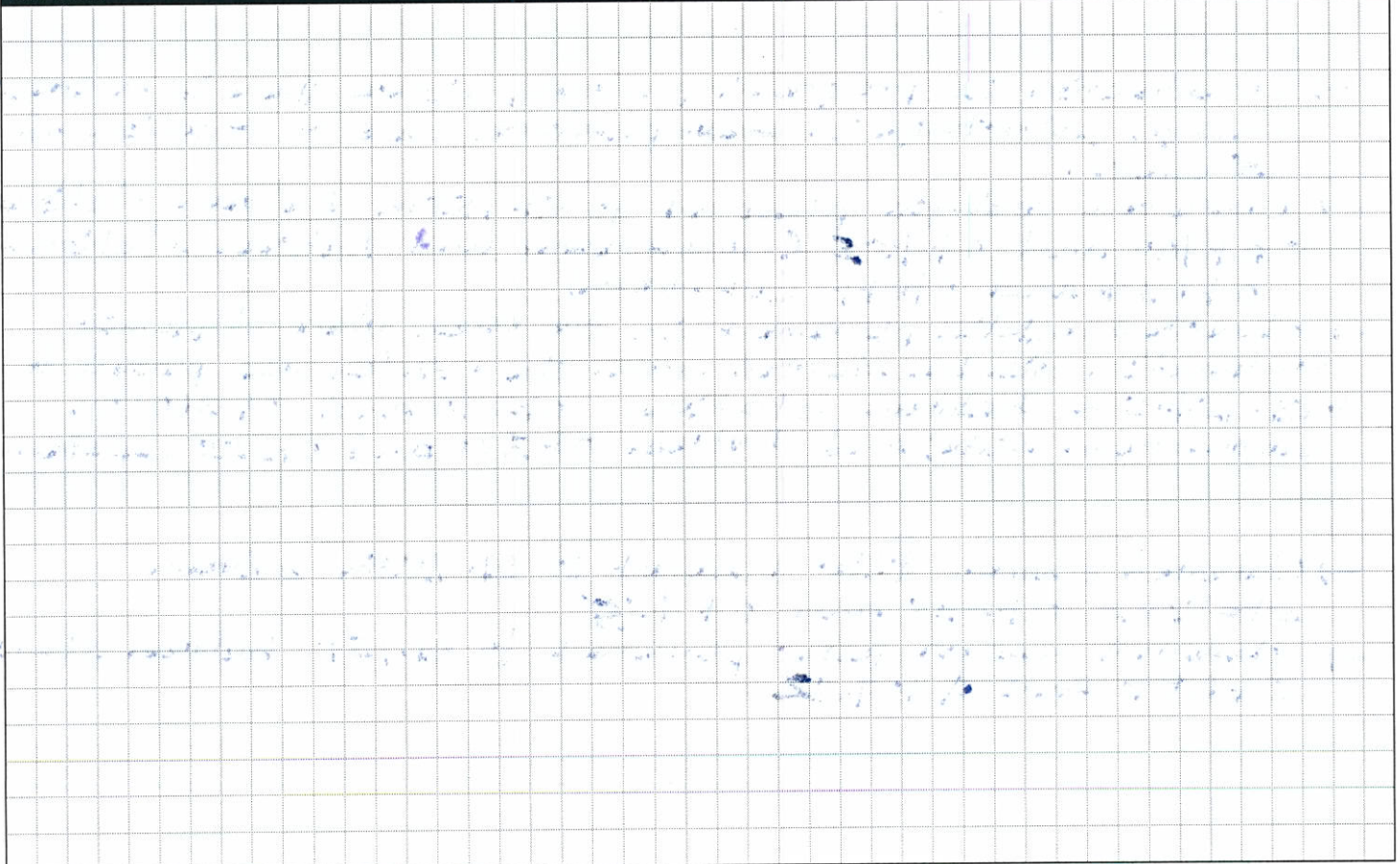
Date

Verified by :

Signature

Date

## SKETCH







SNC • LAVALIN

SITE REPORT  
(Detailed)

20180828-NS-SR

Document number

2018-08-28 18:00/6:00 658309 M. JÉZÉQUEL  
Visit date Time (Start/End) Project No. Prepared by

WTD CONSTRUCTION Agnico Eagle  
Project Client

SNC-Lavalin KCG  
Consultant Contractor

Weather : ☐ Sunny ☒ Cloudy ☒ Rain ☐ Storm ☒ Snow ☐ Glaze  
Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong, Temperature : ~ 6 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☒ Yes ☐ No Inspection report or other :

APPROVAL FORM

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

-> VERY FEW ACTIVITIES WERE PERFORMED BY THE CONTRACTOR DUE TO CREW CHANGE. FOR THOSE REASONS, NO QC REPRESENTATIVE HAS BEEN ON SITE BETWEEN 12:00 AM TO 6:00 AM ON AUGUST 28, 2018.  
-> OBSERVED ROCKFILL PLACEMENT (SOUTH SIDE) UP TO EL. ~154.5m FROM 0+355 TO 0+385: APPROVED  
-> OBSERVED COARSE FILTER PLACEMENT UP TO EL. 157.0m BETWEEN 0+645 TO 0+689: APPROVED  
• AS REQUESTED BY THE QA INSPECTOR, THE QC REPRESENTATIVE TOOK A SAMPLE OF COARSE FILTER AT STATION 0+685, EL. 157.0m

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No	Subject	Given to



### SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
ROCKFILL PLACEMENT (SOUTH SIDE), EL. 154.5	0+355 TO 0+385	APPROVED
COARSE FILTER PLACEMENT, EL. 159.0m	0+645 TO 0+689	APPROVED

### SAFE AND SAFETY REMARKS

NIGHTS ARE VERY DARK: ALWAYS WEAR A HEADLAMP WHEN OUT OF THE VEHICLE.

Issued by :



Signature

2018-08-28

Date

Verified by :

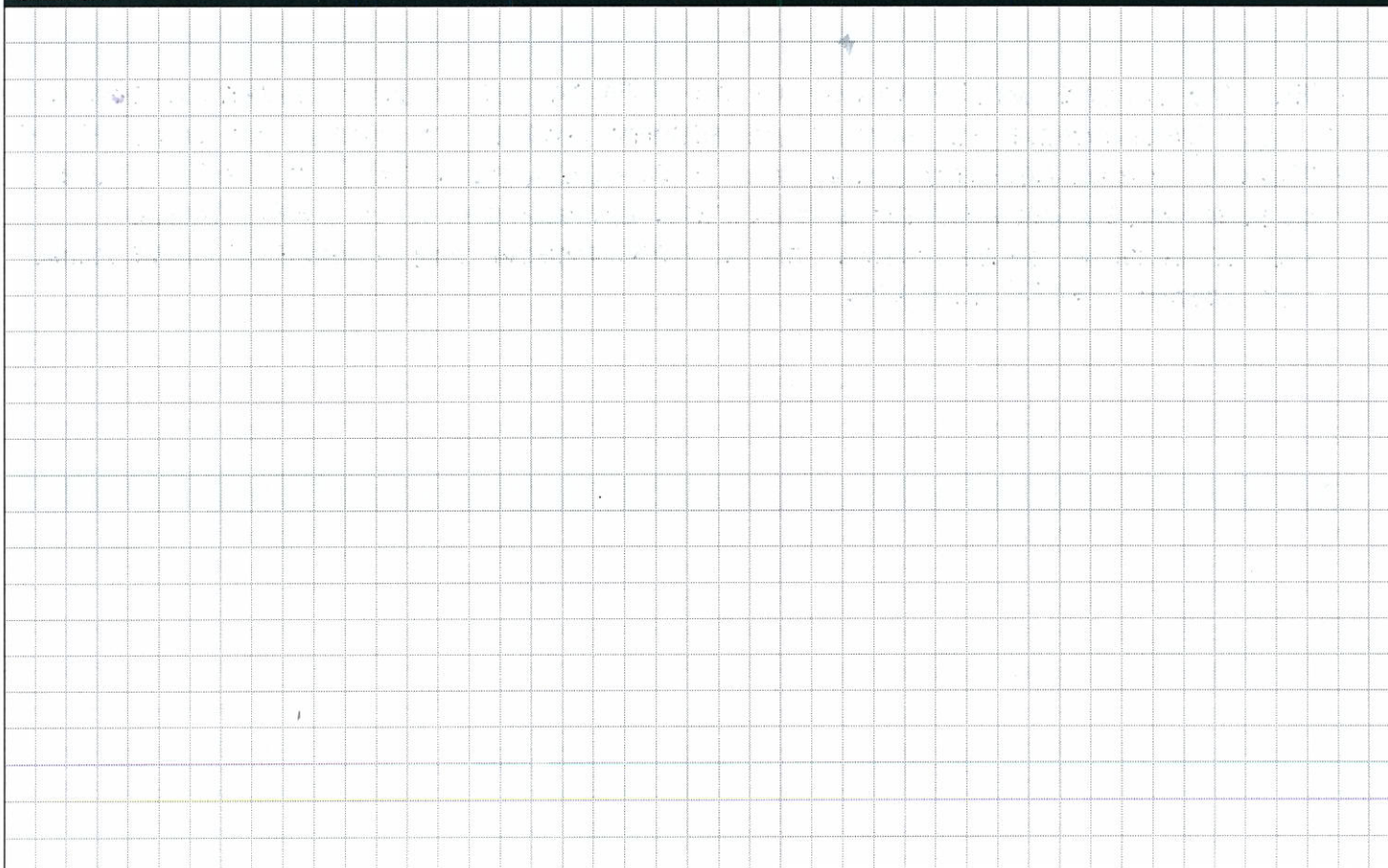
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Signature

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Date

### SKETCH





20180828-05-SR

Document number

Visit date: Aug. 28, 2018 Time (Start/End): 6:00 AM / 6:00 PM Project No.: 658309 Prepared by: Tezera Fawzi Azmat

Project: Agnico Eagle Client:

Consultant: SNC-Lavalin Contractor: KCG

Weather : ☒ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☐ Light ☐ Moderate ☐ Strong, Temperature : ~10 °C

Comments :

Appendix : ☐ Yes ☐ No Pictures ☐ Yes ☐ No Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

→ Visited the laboratory facility on site, specifically checked if laboratory equipment for CB mix testing is available and set-up properly. I had a discussion with QC personnel on adequacy of laboratory equipment for the test on CB mix. Laboratory seem not yet set up to carry out the test on CB mix. There may not be adequate equipment to prepare samples and do test.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No Subject Given to

This needs to be verified soon by setting up the lab.  
→ Write the weekly report for activities between Aug. 22 and August 29.



**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments

**SAFE AND SAFETY REMARKS**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Issued by :

Signature

Date

Verified by :

Signature

Date

**SKETCH**





SNC-LAVALIN

SITE REPORT  
(Detailed)

20180829-NS-SR

Document number

Visit date: 2018-08-29 Time (Start/End): 18:00 / 6:00 Project No.: 658309 Prepared by: M. SÉZÉQUEL

Project: WTD CONSTRUCTION Client: Agnico Eagle

Consultant: SNC-Lavalin Contractor: KCG

Weather: ☐ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze  
Wind: ☐ None gusts ☒ Light ☐ Moderate ☐ Strong, Temperature: 8 °C

Comments:

Appendix: ☒ Yes ☐ No Pictures: ☒ Yes ☐ No Inspection report or other:

Approval Forms

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- LAST SHIFT OF CURRENT QA ROTATION. NO QA INSPECTOR IS GOING TO BE ON SITE DURING DAY SHIFT OF AUGUST 29, 2018.
- THE WHALE TAIL DIKE IS NOW CONSTRUCTED UP TO ELEVATION 157.0m ON ITS ENTIRE LENGTH EXCEPT FOR A PORTION BETWEEN ~0+330 TO ~0+380. DYNAMIC COMPACTION WILL BE CARRIED OUT ON THIS SECTION DUE TO DEEPER BEDROCK. REFER TO WEEKLY REPORT 20180829-WR FOR MORE DETAILS.
- QA AND QC REPRESENTATIVES WALKED ALONG THE DIKE FOR A VISUAL INSPECTION AND NOTICED THAT SOUTH ROCKFILL CREST BETWEEN ~0+560 TO 0+580 (EL. 157.0m) DID NOT SEEM WELL COMPACTED AND SOME MATERIAL WERE MISSING. ADDITIONAL ROCKFILL WAS PLACED AND COMPACTED TO THE SATISFACTION OF QA AND QC REPRESENTATIVES (LINES & GRADES + COMPACTION MEET THE REQUIRED SPECIFICATIONS).

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

- KB Subject: 19 APPROVAL FORMS HAVE BEEN FILLED (ROCKFILL, COARSE AND FINE FILTERS) FOR LIFTS BETWEEN 153.5 TO 155m AND 155 TO 157m. THE WHOLE DIKE AS OF AUGUST 29, 2018 6:00 AM IS NOW APPROVED THROUGH APPROVAL FORMS.
- FINE FILTER IS APPROVED THROUGH A SINGLE APPROVAL FORM FROM 153.5m TO 157.0m



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
<u>FILL PLACEMENT</u> (ROCKFILL, COARSE/FINE FILTERS)	<u>VARIES</u>	<u>REFER TO APPROVAL FORMS</u> <u>20180829-NS-01 TO 19.</u>

## SAFE AND SAFETY REMARKS

WHEN WORKING LONG HOURS AT THE OFFICE, MAKE SURE TO MOVE AND TAKE BREAKS FROM  
TIME TO TIME TO AVOID BACK/NECK PAIN.

Issued by :



Signature

2018-08-29

Date

Verified by :

Signature

Date

## SKETCH

DOCUMENT NUMBER	ACTIVITY	LOCATION	UP TO ELEVATION (m):
20180829-NS-01	ROCKFILL PLACEMENT	0+483 TO 0+634, SOUTH SIDE	155.0
-02	"	0+677 TO 0+736, SOUTH SIDE	155.0
-03	"	0+785 TO 0+815, SOUTH SIDE	155.0
-04	"	0+300 TO 0+340, NORTH SIDE	~154.5
-05	"	0+360 TO 0+420, NORTH SIDE	~155.0
-06	"	0+510 TO 0+700, NORTH SIDE	155.0
-07	"	0+755 TO 0+815, NORTH SIDE	155.0
-08	"	0+450 TO 0+555, SOUTH SIDE	157.0
-09	"	0+700 TO 0+756, SOUTH SIDE	157.0
-10	"	0+140 TO 0+235, NORTH SIDE	157.0
-11	"	0+390 TO 0+508, NORTH SIDE	157.0
-12	"	0+625 TO 0+756, NORTH SIDE	157.0
-13	"	0+799 TO 0+835, NORTH SIDE	157.0
-14	COARSE FILTER PLACEMENT	0+095 TO 0+130, NORTH SIDE	155.0
-15	"	0+755 TO 0+815, NORTH SIDE	155.0
-16	"	0+065 TO 0+130, NORTH SIDE	157.0
-17	"	0+805 TO 0+835, NORTH SIDE	157.0
-18	FINE FILTER PLACEMENT	0+065 TO 0+120	157.0
-19	"	0+805 TO 0+815	157.0





**SNC-LAVALIN**

**SITE REPORT**  
(Detailed)

20180830-NS-SR

Document number

2018-08-30 6:00PM/6:00AM 658309 J. LEBLANC  
Visit date Time (Start/End) Project No. Prepared by

WTD CONSTRUCTION Agnico Eagle  
Project Client

SNC-Lavalin KCG  
Consultant Contractor

Weather : ☒ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze  
Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong, Temperature : 5 °C

Comments : QA crew change : NO QA DURING DAY SHIFT.

Appendix : ☐ Yes ☒ No Pictures ☒ Yes ☐ No Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- DYNAMIC COMPACTION HAS STARTED DURING THE PREVIOUS DAY SHIFT. NO QA WAS ON SITE DURING COMPACTION DUE TO QA CREW CHANGE. PHASE 1 OF DYNAMIC COMPACTION WAS COMPLETED BETWEEN STATIONS 0+335 to 0+380 AT ELEVATION 153.5m (A TOTAL 5 IMPACT POINTS). THE RESULTING HOLES WAS REACHING A DEPTH VARYING FROM 1.5 TO 1.8M.
- DURING THE NIGHT SHIFT, THE HOLES WERE FILLED WITH FINE FILTER (WITH EXCAVATOR).
- DYNAMIC COMPACTION WILL ONLY TAKE PLACE DURING DAY SHIFT.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

- | No | Subject   | Given to |
|----|---|----------|
| →  | WEST ABUTMENT SLURRY WALL TRENCH CLEANED DURING THE PREVIOUS DAY SHIFT. QA/QC REPRESENTATIVES OBSERVED THAT THE CLEANING OF THE BEDROCK SURFACE IS ADEQUATE.  |          |
| →  | QA/QC REPRESENTATIVES NOTED <del>SOME</del> MANY BOULDERS > Ø 1000mm IN THE ROCKFILL PLACEMENT BETWEEN ELEVATION 153.5m and 157m AROUND STATION 0+380 (ON THE <del>DOWNSTREAM</del> UPSTREAM SIDE). QC REPRESENTATIVE TOLD THE CONTRACTOR TO TRY TO AVOID PLACING BOULDER WITH DIAMETER LARGELY EXCEEDING 1000mm. |          |



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
DYNAMIC COMPACTION PHASE 1 (DAY SHIFT)	0+335 to 0+380 AT ELEVATION 153.5M	COMPACTION DURING DAY SHIFT. HOLES WERE FILLED WITH FINE FILTER DURING NIGHT SHIFT.

# SAFE AND SAFETY REMARKS

Issued by :

*Jonathan LeBlond*  
Signature

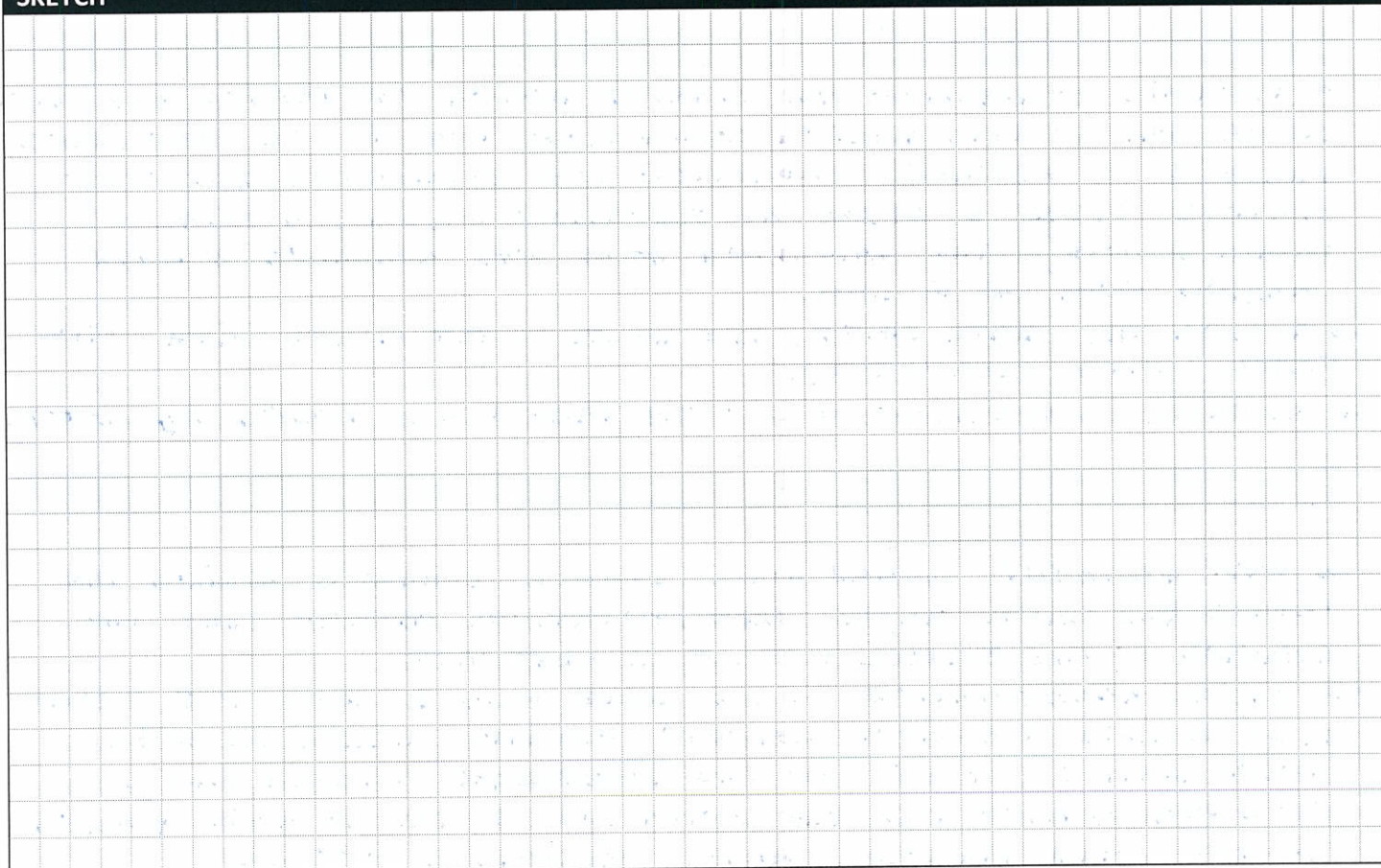
2018-08-30  
Date

Verified by :

Signature

Date

# SKETCH







SNC • LAVALIN

**SITE REPORT**  
(Detailed)

20180830-DS-SR

Document number

Visit date 2018-08-30	Time (Start/End) 6AM/6PM	Project No. 658309	Prepared by A. Arbaiza
Project WTD construction		Client Agnico Eagle	
Consultant SNC-Lavalin		Contractor KGG (with Menard for Dynamic compaction)	

Weather : ☐ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong, Temperature : ~ 7 °C

Comments :

Appendix : ☐ Yes ☒ No Pictures ☒ Yes ☐ No Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

→ Clarification on night shift report (20180830-NS-SR) : Dynamic compaction was started on the 29 of August during the day and phase 1 and phase 2 were completed between st. 0+335 to 0+380 (see dug. N° 200 for plan view - found in menard's work program - Rev. 1, August 24<sup>th</sup> 2018). Once Night shift arrived on site, the contractor already filled some holes, therefore night shift crew were under the impression that only phase 1 was done. Therefore, at the end of Night shift, phase 1 and phase 2 craters were filled with fine filter. <sup>(9 holes)</sup> During today's shift it was mentioned to the QC inspector that fine filter sampling should be taken at night (therefore one sampling is missing from previous shift) since placement of fine filter in the craters is

No	Subject	Given to
	only happening during night shift.	
→	During the daily meeting it was mentioned that the rockfill placed between el. 153.5 and 157 m (~ st. 0+380) was bigger than 1.0 m in Ø. AEM decided to leave it as is.	
→	Inspection of dynamic compaction between st. 0+335 to 0+380 at el. 153.5 m for phases 3 and 4. Measurements (depth and diameter) were taken by Menard and QC inspector (the data was kept by Menard).	
→	Dynamic compaction of phase 1 and 2 was started from st. 0+305 (crater #29) to st. 0+225. It was noticed that the craters of phase 1 were very close to the rockfill platform (upstream) and that some of the rockfill particles were going inside the craters (see sketch). The contractor is now aware and will take the necessary measures to remove big particles from the craters before filling. →	



**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
• Dynamic compaction Phase 3 and 4.	0+335 to 0+380 at el. 153.5 m.	Measurements taken by QC and menard of the craters.
• Fine filter placement	0+335 to 0+380 at el. 157.0 m But small depression to be filled still.	Placement according to specs & QC took sampling. Small depression needs to be filled.
• Dynamic compaction Phase 1 and 2	0+305 to 0+225 at el. 157.0 m.	Careful to remove big rockfill particles before filling (NS)

**SAFE AND SAFETY REMARKS**

A lot of mist on site. visibility is reduced - be careful when driving and walking near operators.

Issued by :

*[Signature]*

Signature

30-08-2018

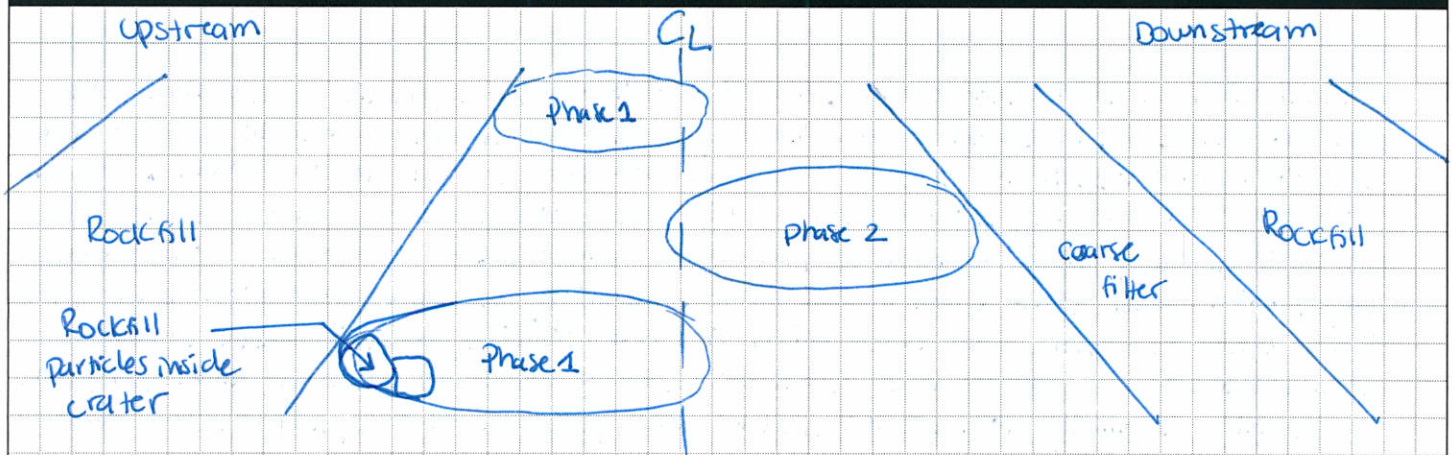
Date

Verified by :

Signature

Date

**SKETCH**



→ QA and QC don't have pick up (since 3 days) therefore the inspection to the dike is dependent on the availability of AEM truck.

to el. 157.0 m

→ Fine filter placement from st. 0+335 to 0+380 (normally an approval form would have to be filled to approve the dynamic compaction (all phases) at these stations but the data was not available to us. First of all, the compactive energy zone DC-11 was not present in their work method document only available for zone DC-10) and has not been available to us yet. Secondly, the phase 3 and 4 data was not available either. AEM directed to fill this zone and write the approval once data is available.





SNC • LAVALIN

SITE REPORT  
(Detailed)

20180831-NS-SR

Document number

2018-08-31	6PM / 6AM	658 309	J. Leblanc
Visit date	Time (Start/End)	Project No.	Prepared by
WTD Construction		Agnico Eagle	
Project		Client	
SNC-Lavalin		KCG	
Consultant		Contractor	
Weather :	<input checked="" type="checkbox"/> Sunny	<input type="checkbox"/> Cloudy	<input type="checkbox"/> Rain
	<input type="checkbox"/> Storm	<input type="checkbox"/> Snow	<input type="checkbox"/> Glaze
Wind :	<input checked="" type="checkbox"/> None gusts	<input checked="" type="checkbox"/> Light	<input type="checkbox"/> Moderate
	<input type="checkbox"/> Strong,	Temperature : 3 °C	
Comments :			
Appendix :	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Pictures
	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Inspection report or other :

## ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- Water level survey : Upstream = 152,688m , Downstream = 152,638m . Told the surveyor to repeat this survey at each night shift.
- Fine filter placement observations and approval up to elevation 157m between station 0+330 to 0+380. Line and grade approved with the surveyor.
- Filling of the dynamic compaction craters at elevation 157m (Phases 1 and 2) between station 0+305 to 0+225. Surface is ready for Phases 3 and 4.
- QC representatives took fine filter sample at station 0+225 (elevation 157m).
- QC representatives took coarse filter sample at station 0+353 (elev. 155m).
- Coarse filter placement and approval up to elevation 155m between station 0+320 to 0+385 at the downstream ~~side~~ side of the dike.

## SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

- | No | Subject   | Given to |
|----|---|----------|
| →  | Rockfill placement observations up to elevation 155m at the downstream side of the dike. QC representatives told the operator <sup>not to contaminate</sup> the coarse filter portion that will be elevated up to the elevation 157m with the rockfill (see sketch).  |          |
| →  | Coarse Filter placement observations between station 0+330 to 0+380 at elevation 157m at the downstream side of the dike. Material placement and gradation (visual) meets the specs requirements. Placement finished at the end of the shift. Lines and grades will have to be checked with the surveyor at the beginning of the day shift prior to approval. |          |



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
→ water level	Upstream and downstream	Will be repeated next shift.
→ Fine Filter placement	0+330 to 0+380 @ 157m	See approval Form
→ Coarse filter placement	0+320 to 0+385 @ 157m(d/s)	Ready for approval with surveyor.
→ Fill DC. craters	0+305 to 0+225	Filled and ready for Phases 3-4
→ Coarse Filter placement	0+320 to 0+385 @ 155m(d/s)	See approval form
→ RockFill placement	0+330 to 0+380 @ 155m(d/s)	Meet specs. requirements.

## SAFE AND SAFETY REMARKS

Heavy equipment circulation on the north side of the dike, where there is a blind spot at the east abutment access. Good communication is very important.

Issued by :

Jonathan Leblanc

Signature

2018-08-31

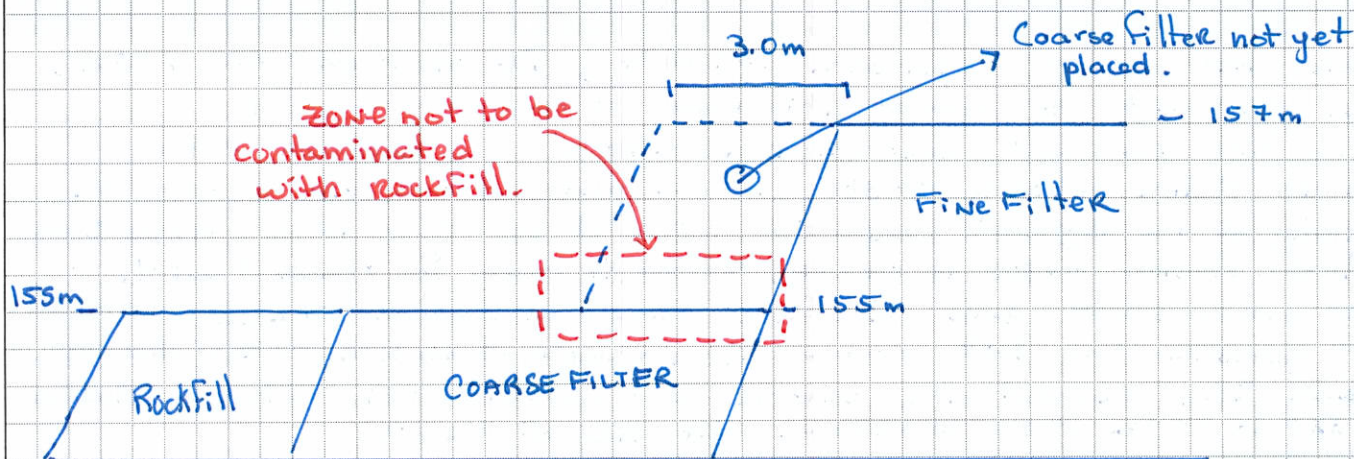
Date

Verified by :

Signature

Date

## SKETCH







**SNC • LAVALIN**

**SITE REPORT**  
(Detailed)

20180831-DS-SR

Document number

31/08/2018

6AM/6PM

658309

A. Arbaiza

Visit date

Time (Start/End)

Project No.

Prepared by

WTD construction

Agnico Eagle

Project

Client

SNC-Lavalin

KCG (Menard for D.C.)

Consultant

Contractor

Weather :

☒ Sunny

☒ Cloudy

☐ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None gusts

☒ Light

☐ Moderate

☐ Strong,

Temperature : ~5 °C

Comments :

Appendix :

☒ Yes

☐ No

Pictures

☒ Yes

☐ No

Inspection report or other :

→ Approval forms

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

→ Final placement of coarse filter from 0+320 to 0+385 was inspected and approval form was filled (see approval form).

→ Inspection of rock fill placement (see stations). Placement according to specs.

→ It was discussed with the client and contractor that between st. 0+330 to 0+410, the coarse filter downstream (between st. 153.5 to 157.0m) was missing some rock fill due to the deep zone of bedrock encountered (see sketch). A minimum length of 2.0m was stated by the designer in order to protect the coarse filter between these stations.

→ Dynamic compaction from st. 0+305 to 0+92 was continued today (Phase 1 and 2 complete and Phase 3 and 4 up to st. 0+184). Compaction according to Menard's method program.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

→ QA/QC don't have pickup, therefore the inspection of the dike is dependant on the availability of AEM truck.



**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
• Rockfill placement	• 0+320 to ~0+358 (South el. 157m)	• At el. 157.0m. Placement meet spec requirements
• Dynamic compaction Phase 1 and 2.	• 0+330 to 0+380 (North el. 157.2m)	• compaction according to merard's work method.
• Fine filter placement in craters	• 0+305 to ~0+092	• All filled for next phases
• Dynamic compaction Phase 3 and 4	• 0+225 to ~0+092	
	• 0+305 to ~0+184	

**SAFE AND SAFETY REMARKS**

Respect 60 m distance from crane when doing dynamic compaction. Always stay visible from operators.

Issued by :

*Angela*

Signature

31/08/2018

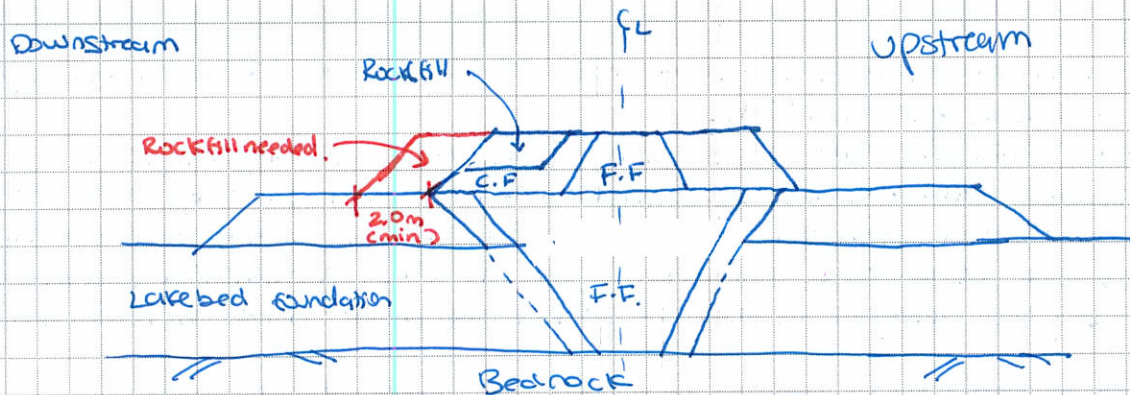
Date

Verified by :

Signature

Date

**SKETCH**





20180901-NJ-SR  
Document number

Visit date 01-09-2018	Time (Start/End) 6PM - 6AM	Project No. 658309	Prepared by J. Leblanc
Project WTD Construction		Client Agnico Eagle	
Consultant SNC-Lavalin		Contractor KCG	
Weather : <input checked="" type="checkbox"/> Sunny <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Storm <input type="checkbox"/> Snow <input type="checkbox"/> Glaze Wind : <input checked="" type="checkbox"/> None gusts <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Strong, Temperature : 5 °C			
Comments :			
Appendix : <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pictures <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Inspection report or other :			

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Water level survey : Upstream = 152.672 m downstream = 152, 615 m. The surveyor was uncertain of its calibration. Calibration will be validated during next day shift.
- Fine Filter placement in the dynamic compaction craters of Phases 3 and 4 between chainage 0+305 to 0+184.
- Compaction of the Fine Filter between 0+305 to 0+184 after craters were filled. QC representative told the operator to concentrate the effort on the transition zones (Fine Filter / coarse Filter and Fine Filter / Rock Fill). QC representative also made sure that the operator was slow enough during the compaction (the operator was often too fast).

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

- | No | Subject  | Given to |
|----|--|----------|
| →  | Rockfill placement at 155m at the upstream side of the dike between 0+358 to 0+380.  |          |
| →  | Rockfill placement from 155m to 157m at the upstream side of the dike between 0+330 to 0+360. Gradation (visual) of the rock fill was good in general (sometimes too fine). QA/QC representatives made sure with the operator: at the rock fill stockpile to avoid finer material zone in the stockpile. |          |



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
Fine Filter placement in craters	0+305 to 0+184	All filled.
Fine Filter compaction	0+305 to 0+184	Compacted at QA/QC satisfaction.
Rock Fill placement	0+330 to 0+360	Meet the spec.
Water level survey	Upstream at 157m.	requirements
	Both upstream and downstream.	Will be repeated next NS.

## SAFE AND SAFETY REMARKS

Be visible at all time, especially during dark hours (which are getting earlier each day).

Issued by :

Jonathan Leblanc  
Signature

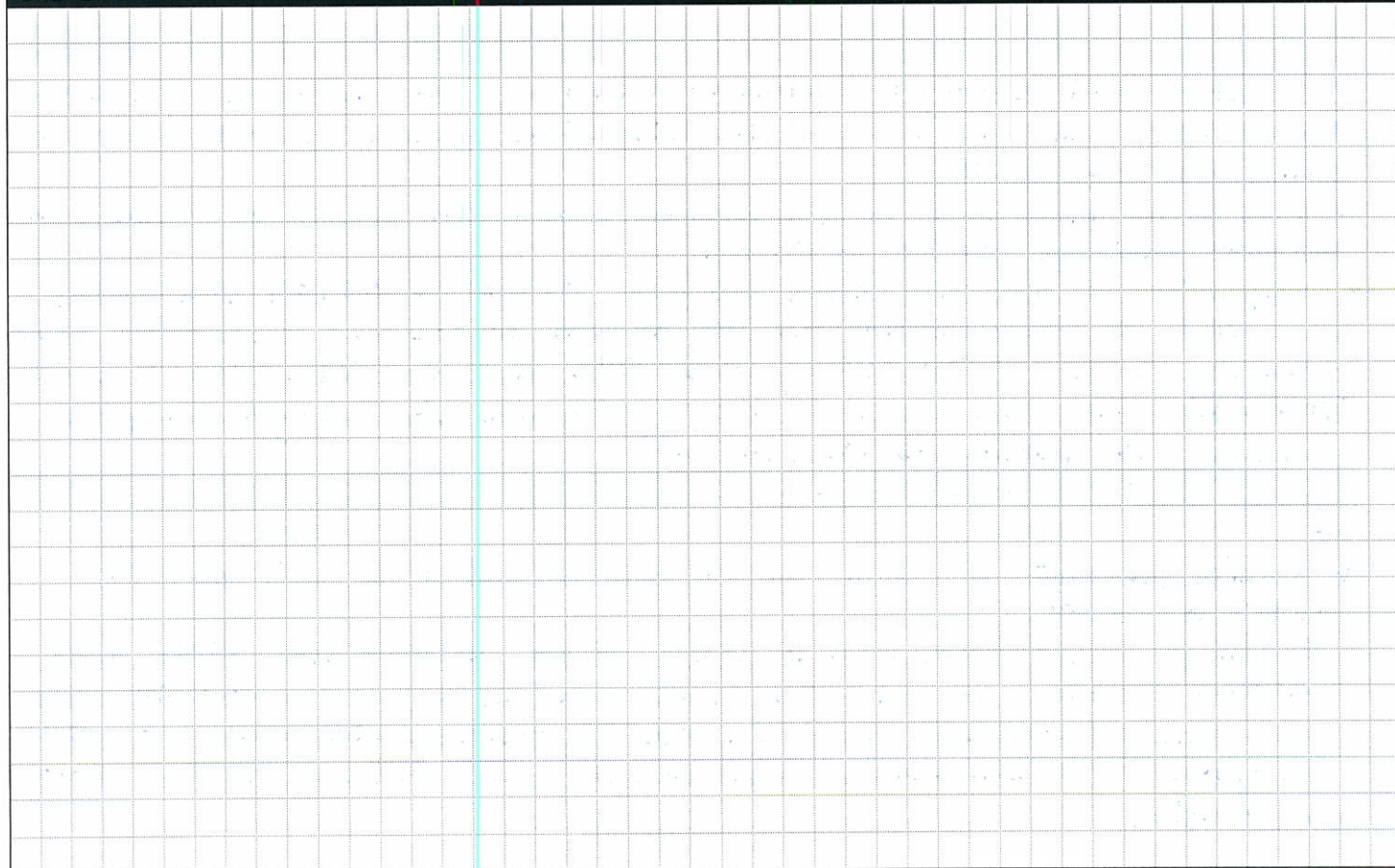
2018-09-01  
Date

Verified by :

Signature

Date

## SKETCH







SNC • LAVALIN

# SITE REPORT (Detailed)

20180901-DS-SR

Document number

01/09/2018 6AM/6PM 658309 A. Arbizu  
Visit date Time (Start/End) Project No. Prepared by

WTD construction

Project

Agnico Eagle

Client

SNC-Lavalin

Consultant

KCG (Ménard for D.C.)

Contractor

Weather : ☒ Sunny ☐ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☐ Light ☒ Moderate ☐ Strong,

Temperature : 2-10 °C

Comments :

Appendix : ☐ Yes ☒ No Pictures ☒ Yes ☐ No

Inspection report or other :

## ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- Inspection of rockfill placement from 0+358 to 0+380 from el. 155.0 to el. 157.0 m (upstream) Placement and gradation according to specs. (downstream)
- Inspection of rockfill placement from st. 0+330 to 0+410 (2.0 m wide to protect coarse filter - Ref. to site report 20180831-DS-SR) according to specs. However, the gradation seemed to not respect the requirements since the rockfill contained too many fines. QC inspector reported this to the contractor and AEM but the already placed material was left as is.
- Dynamic compaction from 0+305 to 0+492 finished (Phases 1 to 4). Craters of Phase 3 and 4 were filled and QC inspector took sampling at st. ~0+100.
- Dynamic compaction from ~0+305 to 0+410 started for Phases 1 and 2. Craters to be filled in WS.

## SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

- | No | Subject  | Given to |
|----|--|----------|
| →  | Water level is being monitored by AEM and advised to stop monitoring at night. The measurements will be sent to DS QA and will be reported in site report.   |          |
| →  | QA and QC inspected slopes of rockfill all along the dike and some reprofiling needs to be done since some slopes seem to not respect the 1.5:1. Reprofiling will be done WS. Sections mainly in the lake section.   |          |
| →  | Correction from site reports 20180830-US-SR and 20180830-DS-SR : Dynamic compaction was done from el. 154.2m instead of 153.5m from st. 0+335 to 0+380. The material was placed at this elevation since Ménard required to do dynamic compaction at least 1.5m above lake water level which is now at ~152.7m. |          |



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
• Rockfill Placement	• 0+358 to 0+380 (upstream)	→ TO el. 157.0 m
	• 0+330 to 0+410 (downstream)	→ 2.0 wide from coarse filter (157.2 m)
• Dynamic compaction	• 0+184 to 0+092 (Ph. 3+4)	→ F.F. placement indicators
	• 0+300 to 0+410 (Ph. 1+2)	and sampling taken by AC at st. 0+100

# SAFE AND SAFETY REMARKS

Keep distance from crane for dynamic compaction (60 m) and announce when passing ground radius.

Issued by :

*[Signature]*

Signature

01/09/2018

Date

Verified by :

Signature

Date

# SKETCH







**SNC-LAVALIN**

**SITE REPORT**  
(Detailed)

20180902-NS-SR

Document number

02/09/2018  
Visit date

6PM / 6AM  
Time (Start/End)

658309  
Project No.

J. Leblanc  
Prepared by

WTD Construction  
Project

Agnico Eagle  
Client

SNC-Lavalin  
Consultant

KCG  
Contractor

Weather : ☐ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze

Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong,

Temperature : ~5 °C

Comments :

Appendix : ☒ Yes ☐ No Pictures ☒ Yes ☐ No

Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Water level survey one last time since AEM is monitoring it :  
Upstream = 152,679m Downstream = 152,627m.
- Fine Filter craters Filling with the excavator from 0+300 to 0+410.
- Roller compaction between 0+184 to 0+092 on the Fine Filter: 2 passes in the center of the FF zone, 3 passes on the Rockfill and coarse filter transition on both side. QC representative told the operator not to make too much passes since it will only crush the material. The compaction efficiency is limited without adding water on the material.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

- Rockfill approval from 0+320 to 0+380, both upstream and downstream, at 157m elevation :

- Upstream, from 0+339 to 0+350 : Rockfill boulders are too big, with diameter greater than 1500 to 2000mm, causing the grade of the slope to be 400mm over. This section cannot be graded without removing the big boulders in the rockfill slope (this non-conformity has been noted on the approval form).

- Downstream (2m wide rockfill for coarse filter protection) : QA/QC representative told the contractor at the stockpile that the rockfill was too fine to be placed on the dike. After the intervention, rockfill (see Page 2)



# SPECIFIC ELEMENTS VERIFIED

Elements

Location

Scope and comments

Water level  
Fine Filter placement in craters  
Roller compaction  
Rockfill placement

Both upstream and downstream  
0+300 to 0+410  
0+184 to 0+092  
0+330 to 0+380

Will be monitored by AEM.  
Ready for Phases 3-4.  
Compacted at QA/QC satisfaction  
See Approval Form.

# SAFE AND SAFETY REMARKS

Much more co-activity on the dike with Henry drilling transporting material at the west abutment.

Issued by :

*Jonathan Leblanc*  
Signature

2018/09/02  
Date

Verified by :

Signature

Date

# SKETCH

... was of much better quality. The fine rockfill material placed on the dike is of small quantity since the situation was corrected rapidly. (This element has been noted on the approval but has not been judged by QA/QC representatives to be a non-conformity).





**SNC • LAVALIN**

**SITE REPORT**  
(Detailed)

20180902-DS-SR

Document number

02/09/2018

6AM/6PM

658309

A. Arbizu

Visit date

Time (Start/End)

Project No.

Prepared by

WTD Construction

Agnico Eagle

Project

Client

SNC-Lavalin

KCG (DC by menard).

Consultant

Contractor

Weather :

☐ Sunny

☒ Cloudy

☐ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None  
gusts

☐ Light

☐ Moderate

☐ Strong,

Temperature : 25 °C

Comments :

Appendix :

☐ Yes

☐ No

Pictures

☒ Yes

☐ No

Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Dynamic compaction between st. 0+400 to 0+520. Compaction according to menard's work method.
- As built received from st. 0+300 to 0+420 (see attached) for the section were 2.0m minimum rockfill needed to be placed from the course is her.
- verification of compaction at west abutment from st. 0+085 to 0+092 with a shovel: shovel would excavate to see if the walls would stay firm. this was done because there was no dynamic compaction done between st. 0+065 to 0+092. In addition, the trench was not excavated but built. ~~this~~ this was done in the previous rotation. more details to come once more information

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

on this becomes available. By doing this verification, it seemed that the walls were firm and well compacted (see sketch for plan view).



**SPECIFIC ELEMENTS VERIFIED**

Elements

Location

Scope and comments

Dynamic compaction

0+400 to 0+520

Phase 1 and 2.

**SAFE AND SAFETY REMARKS**

Rain: surfaces are slippery. Be aware of your surroundings

Issued by :

*[Signature]*

Signature

03/09/2018

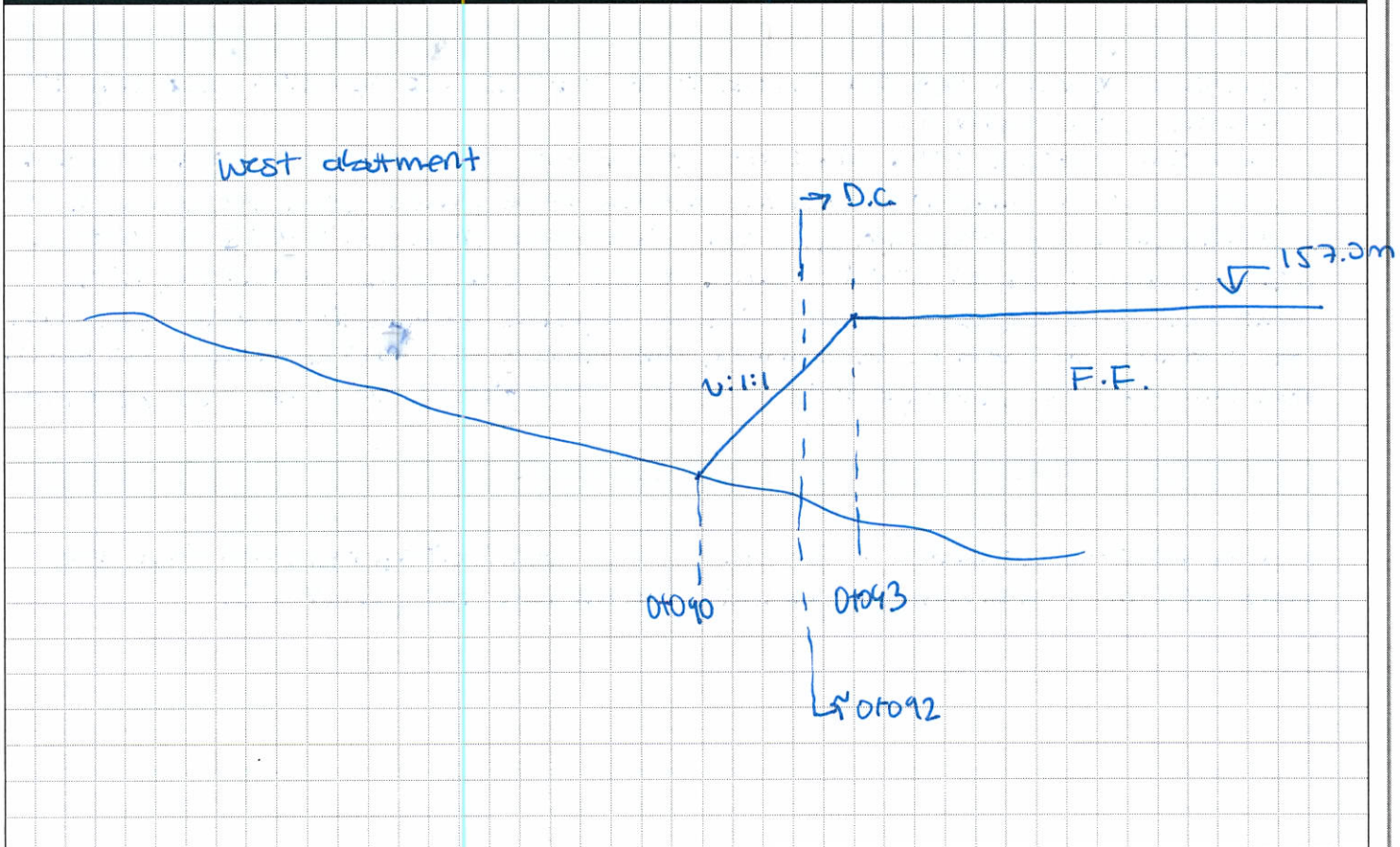
Date

Verified by :

Signature

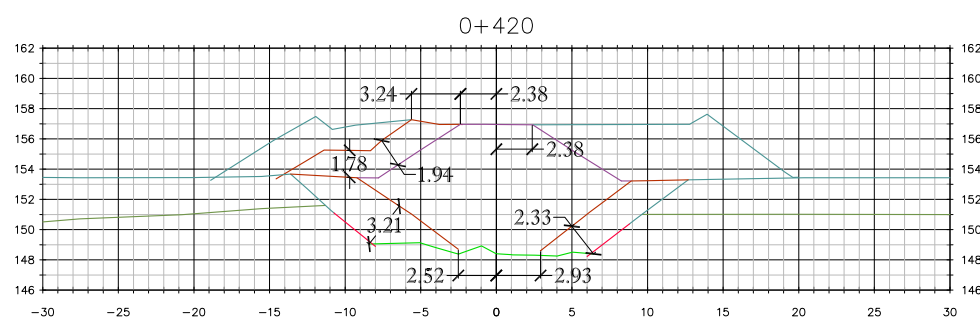
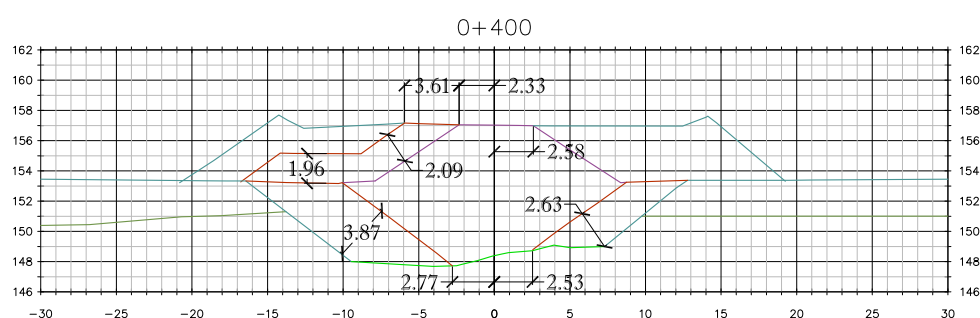
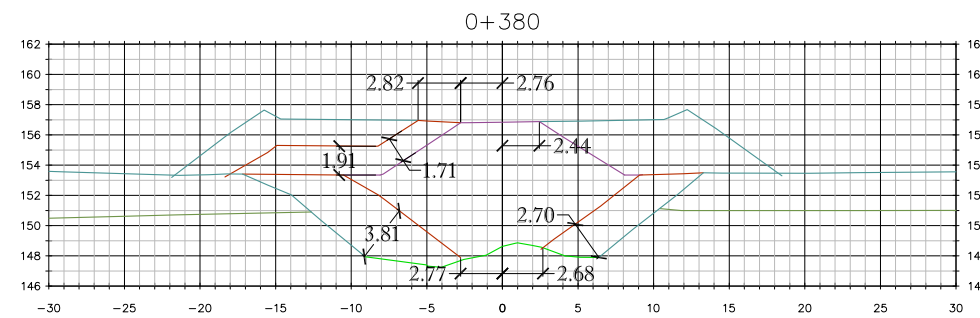
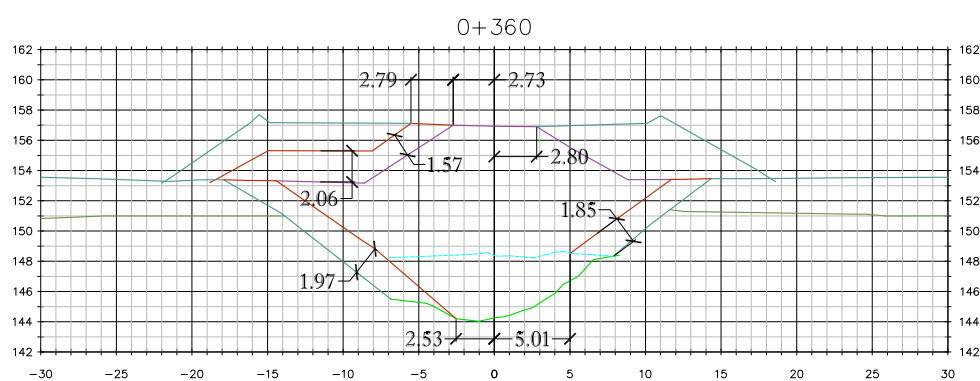
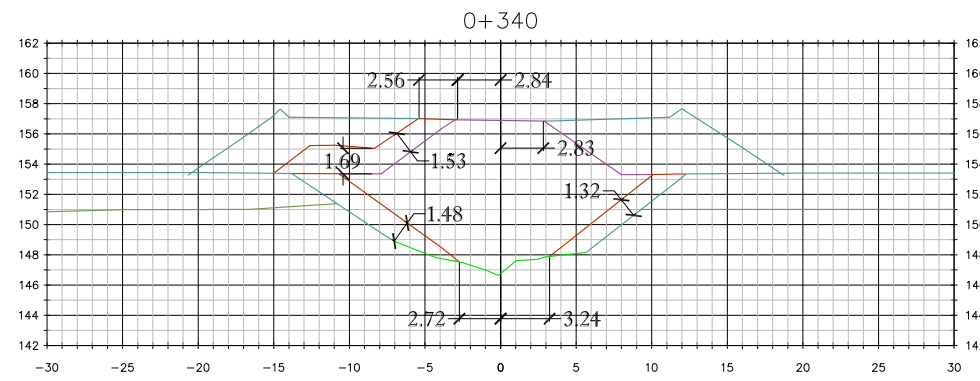
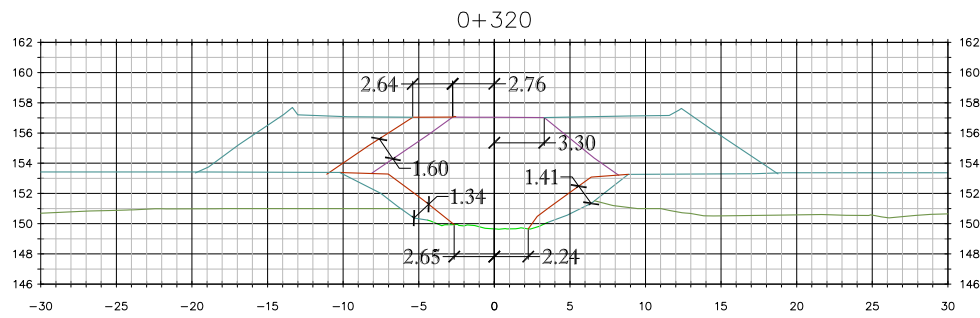
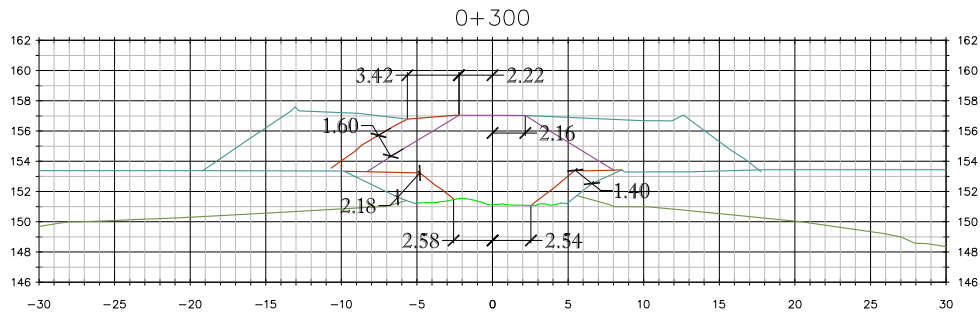
Date

**SKETCH**





AS-BUILT 0+300 to 0+420  
WHALE TAIL DIKE CONSTRUCTION  
CONTRACT # 11-811



- |                 |  |               |  |
|-----------------|--|---------------|--|
| BEDROCK         |  | COARSE FILTER |  |
| NATURAL GROUND  |  | ROCKFILL      |  |
| FINE FILTER     |  | EXCAVATION    |  |
| FINE FILTER 148 |  |               |  |



PREPARED BY : MIKAËL LÉVESQUE  
DATE : 02-09-2018  
CON-FD-067\_AB





SNC • LAVALIN

**SITE REPORT**  
(Detailed)

20180903-NS-SR

Document number

Visit date: 03-09-2018 Time (Start/End): 6AM-6AM Project No.: 658309 Prepared by: J. Leblanc

Project: WTD Construction Client: Agnico Eagle

Consultant: SNC-Lavalin Contractor: HCG

Weather: ☐ Sunny ☐ Cloudy ☒ Rain ☐ Storm ☐ Snow ☐ Glaze  
Wind: ☐ None gusts ☒ Light ☐ Moderate ☐ Strong, Temperature: ~6 °C

Comments:

Appendix: ☐ Yes ☒ No Pictures: ☐ Yes ☒ No Inspection report or other:

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Backfilling of Phases 1 and 2 craters from stations 0+520 to 0+380.
- Observation of the QC representative taking a fine filter sample at station 0+495 (El. 157.0m).
- Earthworks stopped at ~9:30PM on whale Tail Dike.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No	Subject	Given to



**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
→ Backfill Fine Filter	0+380 to 0+520	Ready for phases 3-4
Fine filter sampling	0+495 at El. 157.0m	taken by QC rep.

**SAFE AND SAFETY REMARKS**

Stay vigilant on dike, even if there is less co-activity, especially when the visibility is bad (dark hours + heavy rain).

Issued by :

Jonathan Leblanc  
Signature

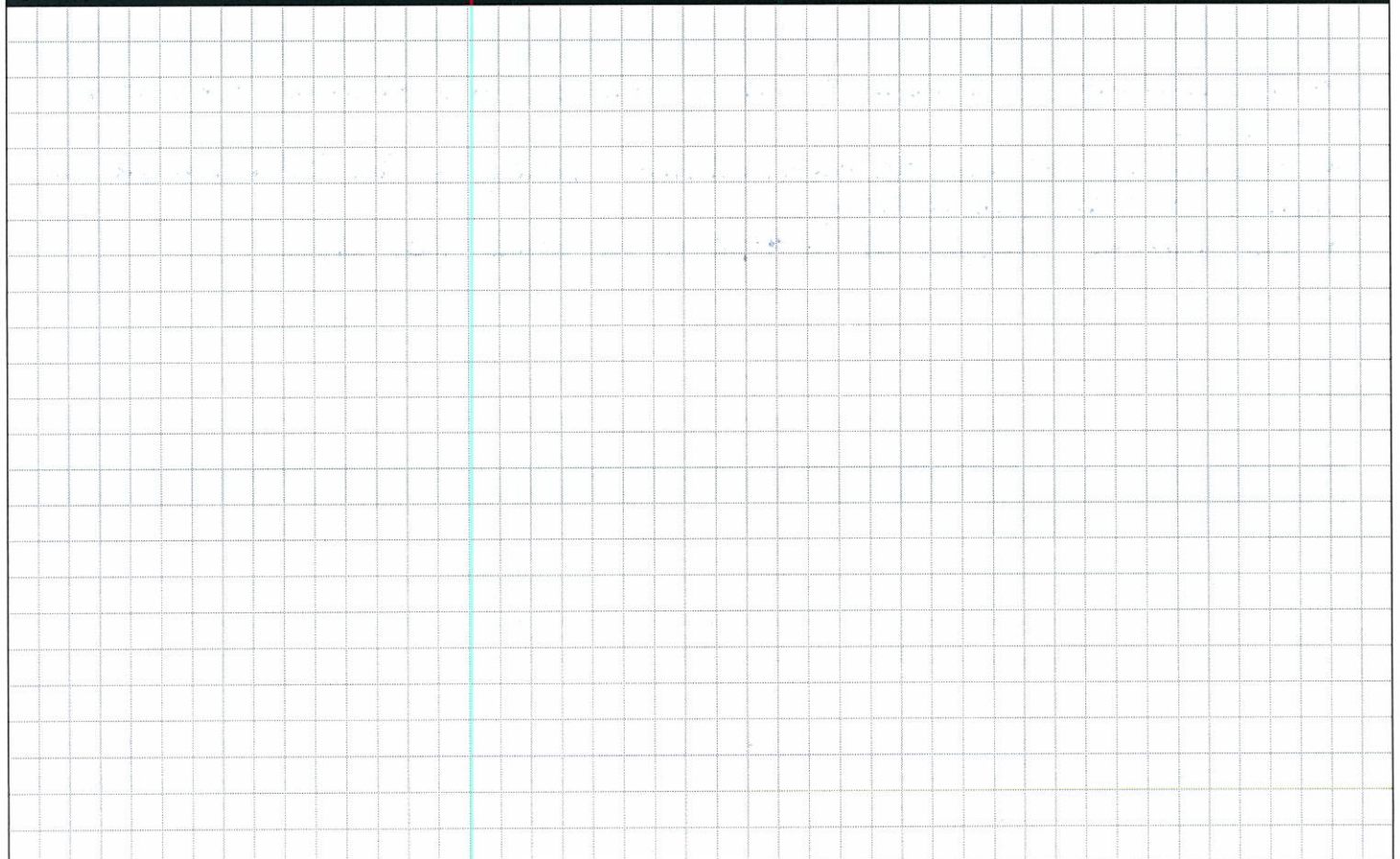
2018-09-03  
Date

Verified by :

Signature

Date

**SKETCH**







SNC • LAVALIN

**SITE REPORT**  
(Detailed)

20180903-OS-SR

Document number

03/09/2018

6AM/6PM

658309

A. Arbaiza

Visit date

Time (Start/End)

Project No.

Prepared by

WTD construction

Agnico Eagle

Project

Client

SNC-Lavalin

KCG (DC by menard)

Consultant

Contractor

Weather :

☐ Sunny

☒ Cloudy

☐ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None  
gusts

☐ Light

☒ Moderate

☐ Strong,

Temperature : ~5-10 °C

Comments :

Appendix :

☒ Yes

☐ No

Pictures

☒ Yes

☐ No

Inspection report or other :

→ Approval form

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

→ Inspection of Dynamic compaction from st 0+520 to 0+595 (Phase 1 and 2). Dynamic compaction from 0+300 to 0+420 (Phase 3 and 4). Both sectors were performed according to menard's work method document.

→ Henry Drilling is ready to start drilling down to bedrock in the compacted area (0+092 to 0+300). they will maybe start tonight or tomorrow morning. About 30 casings (2-3 m in length) have been transported in this area as well as their BG 30. Henry drilling would start with pile #0009 (primary) to be away from the trench and then go towards 0+300.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No	Subject	Given to



**SPECIFIC ELEMENTS VERIFIED**

Elements	Location	Scope and comments
Water level (AEM)	Difference upstream vs downstream = 0,02 m	
Dynamic compaction	0+520 to 0+595	Phase 1 and 2
"	0+300 to 0+420	Phase 3 and 4

**SAFE AND SAFETY REMARKS**

Respect 60 m radius with crane - Dynamic compaction.

Issued by :

 Signature

03/09/2018

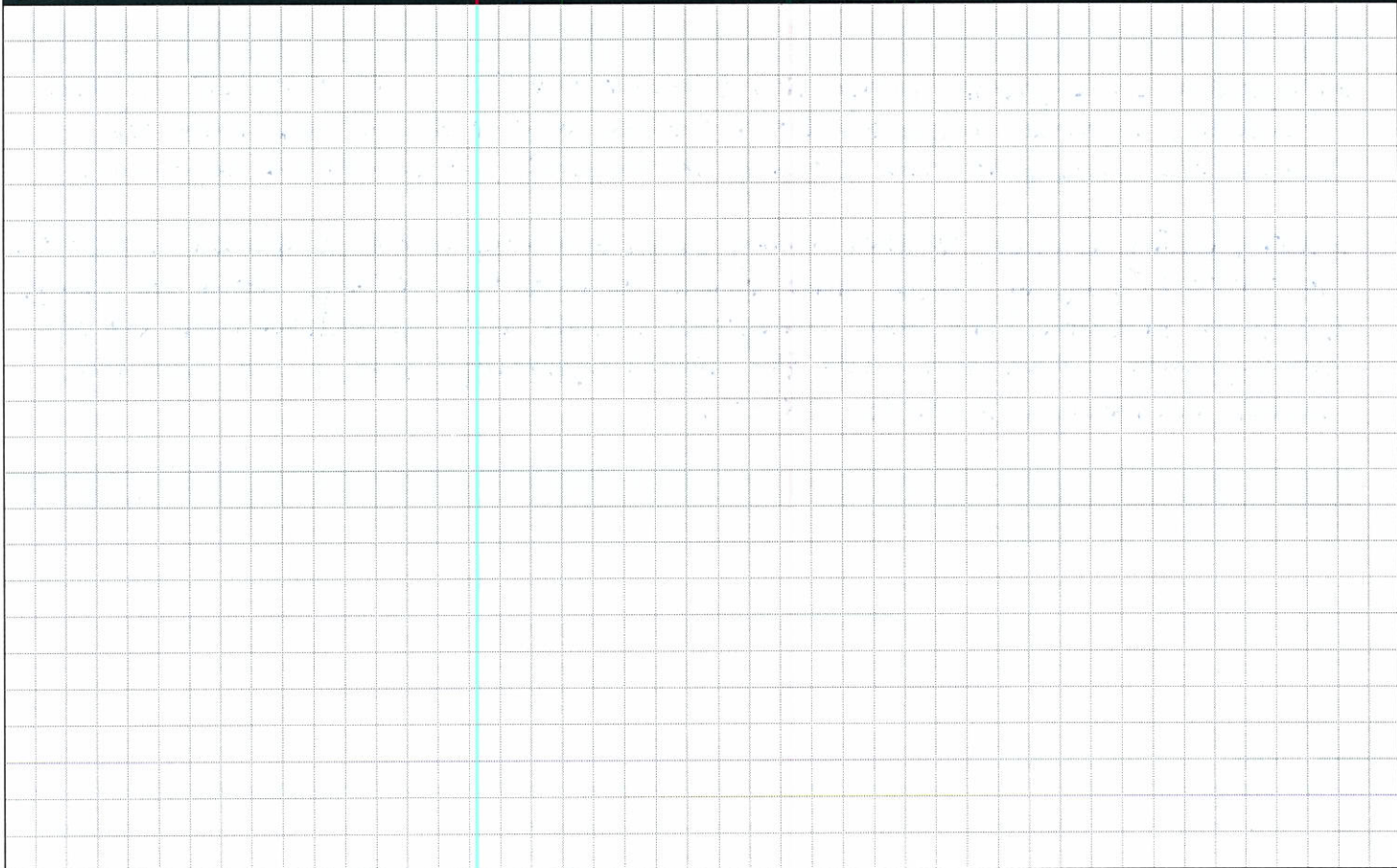
Date

Verified by :

Signature

Date

**SKETCH**







**SNC • LAVALIN**

**SITE REPORT**  
(Detailed)

20180904-NS-SR

Document number

04-09-2018 6PM/64M 650309 J. LeBLANC  
Visit date Time (Start/End) Project No. Prepared by

WTD Construction Agnico Eagle  
Project Client

SNC-Lavalin KCG  
Consultant Contractor

Weather : ☐ Sunny ☐ Cloudy ☒ Rain ☐ Storm ☐ Snow ☐ Glaze  
Wind : ☐ None gusts ☐ Light ☒ Moderate ☐ Strong, Temperature : ~4 °C

Comments : \_\_\_\_\_

Appendix : ☐ Yes ☒ No Pictures ☒ Yes ☐ No Inspection report or other : \_\_\_\_\_

**ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)**

- Fine Filter backfilling in craters between stations 0+300 to 0+420 and 0+520 to 0+595.
- Dynamic Roller compaction between stations 0+300 to 0+420 at the satisfaction of QA/QC representatives.
- 2 Samples taken from QC representative at El. 157.0m at stations 0+565 and 0+340.
- Beginning of the secant piles drilling of the casings until the bedrock surface is reached. The casings is cleaned with the Auger. When surface of bedrock is reached, the casings is drilled about 1 feet below the surface. Verticality and precise location of the...

**SITE GUIDELINES (guidelines, memos, modification proposals, etc.)**

No Subject Given to  
... secant pile are constantly manually measured during the drilling process. The casings will be surveyed at their final position during day shift. Final depth reached for each secant pile will be also transmitted during day shift.



## SPECIFIC ELEMENTS VERIFIED

Elements

Location

Scope and comments

Fine Filter backfilling  
 Fine Filter sampling  
 Roller compaction  
 Secant Piles casing to  
 bedrock

0+300 to 0+420 and 0+520 to 0+595  
 0+345 and 0+565  
 0+300 to 0+420  
 see sketch

QA/QC satisfaction  
 bedrock reached  
 and casings 1 foot  
 into bedrock.

## SAFE AND SAFETY REMARKS

New activities on WTD. Take a step back and be  
 aware of all the operations of the surrounding.

Issued by :

Jonathan Leblanc

Signature

2018-09-04

Date

Verified by :

Signature

Date

## SKETCH

Primary secant piles :

Secant Pile	Station	implemented depth of secant pile by surveyor
0009	0+095.15	3.73m
0013	0+098.35	4.150m
0017	0+101.55	4.180m
0021	0+104.75	3.910m
0025	0+107.95	4.280m





SNC • LAVALIN

SITE REPORT  
(Detailed)

20180904-DS-SR

Document number

2018 / 09 / 04

6AM / 6PM

658309

A. Arbuzov

Visit date

Time (Start/End)

Project No.

Prepared by

WTD construction

Agnico Eagle

Project

Client

SNC-Lavalin

KCG (Menard for DC and Henry Drilling for SP)

Consultant

Contractor

Weather :

☒ Sunny☒ Cloudy☒ Rain☐ Storm☒ Snow☐ Glaze

Wind :

☐ None  
gusts☐ Light☒ Moderate☐ Strong,

Temperature : 20 °C

Comments :

Appendix :

☐ Yes☐ No

Pictures

☒ Yes☐ No

Inspection report or other :

## ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

→ Inspection of dynamic compaction Phase 3 and 4 from st. 0+420 to st 0+595  
Ready for fine filter placement.

→ Inspection of dynamic compaction Phase 1 and 2 from st. 0+595 to st 0+610.  
Compaction according to Menard's work method.

→ At start of the shift casing 0029 (pile) was already drilled through the  
fine filter. Henry Drilling stopped their work at the dike and concentrated their  
efforts to build the permadomes. It seemed that the screen from the mixing plant  
was damaged due to the rain. According to HD it is easily fixable but the permadome  
is critical now and taking more time than expected.

## SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

→ SANA has been working on their survey method to calculate deviation and  
localisation. the 6 casings were surveyed and the data should be ready  
tomorrow.

→ As mentioned previously, the trench at the west abutment has not been filled  
with CB slurry yet since batch plant is not ready yet. Due to the rain and  
snow, the trench is accumulating some water and may turn into ice if temperature  
continues to decrease.



**SPECIFIC ELEMENTS VERIFIED**

Elements

Dynamic compaction  
" "

Location

0+420 to 0+595  
0+595 to 0+610

Scope and comments

Phase 3 and 4  
Phase 1 and 2.

**SAFE AND SAFETY REMARKS**

heavy snow today, surfaces are very slippery. Be aware of your surroundings.  
Also, visibility reduced due to snow.

Issued by :

  
Signature

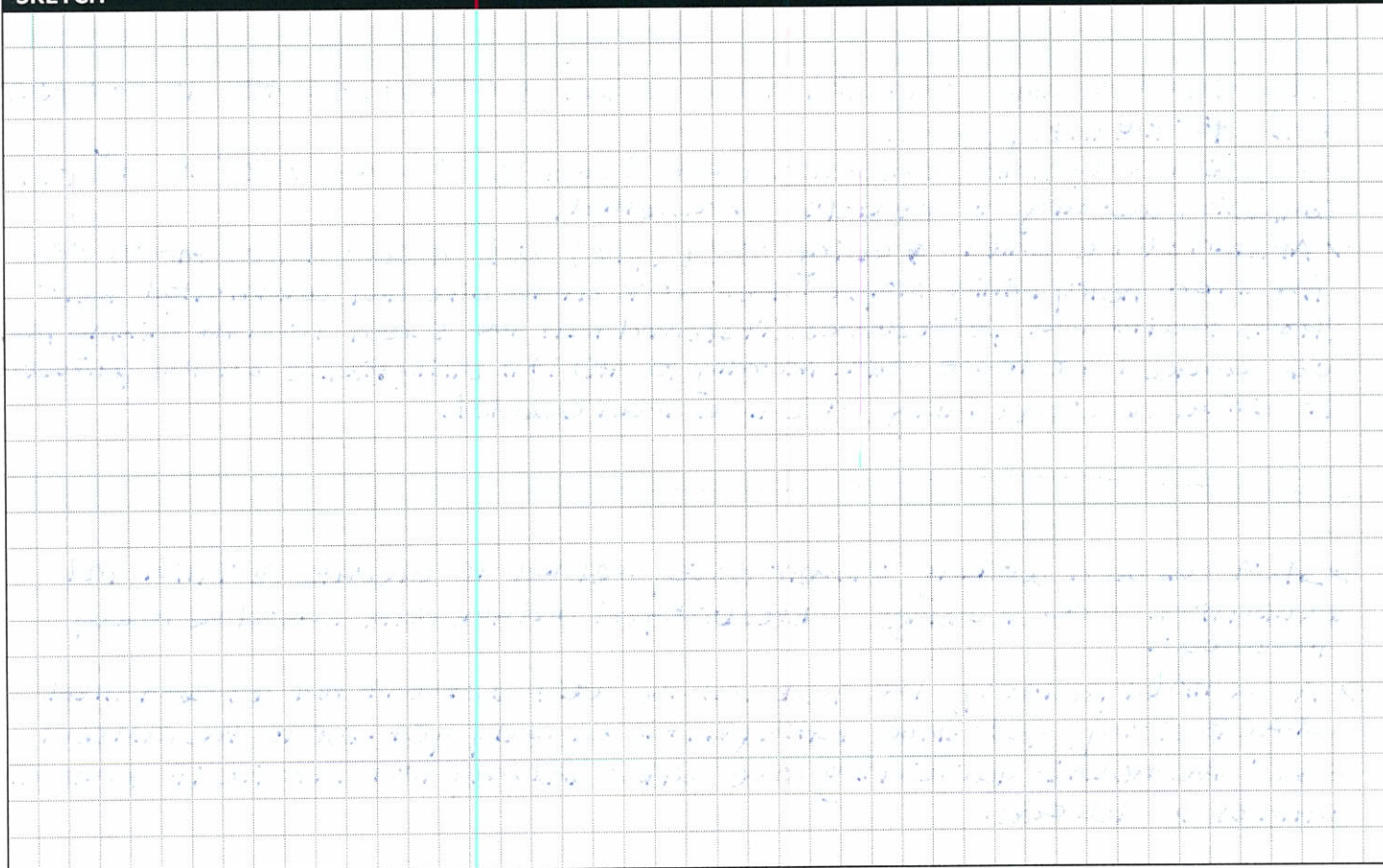
04/09/2018.  
Date

Verified by :

Signature

Date

**SKETCH**







SNC • LAVALIN

# SITE REPORT (Detailed)

2018 09 05 - NS-SR  
Document number

2018/09/05 6PM/6AM 658309 J. Leblanc  
Visit date Time (Start/End) Project No. Prepared by

WTD Construction Agnico Eagle  
Project Client

SNC-Lavalin HCG  
Consultant Contractor

Weather : ☒ Sunny ☐ Cloudy ☐ Rain ☐ Storm ☐ Snow ☐ Glaze  
Wind : ☒ None gusts ☐ Light ☐ Moderate ☐ Strong, Temperature : 0 °C

Comments :

Appendix : ☐ Yes ☒ No Pictures ☒ Yes ☐ No Inspection report or other :

## ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- Fine filter backfilling in dynamic compaction's craters between stations 0+420 to 0+610.
- QC representative sampling of Fine filter at station 0+570 (El. 157.0m).
- Secant piles drilling of the casings until bedrock is reached continues at secant pile 0029. No hole hammer has been used yet : the casings is drilled 1 foot within bedrock. Fine filter material is cleaned from the casings with the Auger. Since bedrock is fractured, some cobbles of it is extracted with the Auger (drilling the casings is destroying the fractured bedrock, hence the fragments with the Auger).

## SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

- No Subject Given to
- Secant piles are currently being drilled with 5m length casings. They also have 1m length casings that they are fixing on the 5m length casings to prepare in advance 6m length casings when bedrock will be deeper.
  - Down the hole hammer should begin the next day shift, with the final clean-up of the holes with compressed air. The hammer is currently on the dike.



# SPECIFIC ELEMENTS VERIFIED

Elements

Location

Scope and comments

Fine Filter backfilling

0+420 to 0+610

stations 0+420 to 0+595 is ready for roller compaction.

Fine filter sampling

0+570 at El. 157.0m

To QA satisfaction.

Secant Piles casing to bedrock

See sketch

Bedrock reached and casings goes 1 foot into bedrock.

# SAFE AND SAFETY REMARKS

A lot of muddy water on site. Take the time to clean the pick-up ligh during the shift. IF not, visibility is heavily reduced.

Issued by :

Jonathan Leblanc

Signature

2018-07-05

Date

Verified by :

Signature

Date

# SKETCH

Primary secant Piles:

Secant Pile

Station

Implemented depth of secant pile

0029

0+111.15

4.600m

0033

0+114.35

4.780m

0037

0+117.55

4.950m

0041

0+120.75

5.100m

0045

0+123.95

5.080m





**SNC • LAVALIN**

**SITE REPORT**  
(Detailed)

20180905-DS-SR

Document number

2018-09-05

6AM/6PM

658309

A. Arbaiza

Visit date

Time (Start/End)

Project No.

Prepared by

WTD construction

Agnico Eagle

Project

Client

SNC-Lavalin

KCB (DC by menard and SP by HD).

Consultant

Contractor

Weather :

☐ Sunny

☒ Cloudy

☒ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None  
gusts

☒ Light

☐ Moderate

☐ Strong,

Temperature : ~ 8 °C

Comments :

Appendix :

☐ Yes

☒ No

Pictures

☒ Yes

☐ No

Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)**

- Inspection of dynamic compaction from st. 0+595 to ~0+710 for Phases 1 and 2. compaction according to menard's work method.
- surface compacted by dynamic compaction and filled with fine filter (st. 0+420 to 0+595) was not compacted with roller. therefore no approval could be done yet.
- HD tried to use their hammer into one of the casings to go deeper into bedrock but their air compressors were not working properly therefore all the casings on site are still not final (elevation to bedrock).
- Personal incident to QA, therefore QA was not very present on site today.

**SITE GUIDELINES (guidelines, memos, modification proposals, etc.)**

No	Subject	Given to



**SPECIFIC ELEMENTS VERIFIED**

Elements

Dynamic Compaction

Location

0+545 to 0+710

Scope and comments

Phase 1 and 2.

**SAFE AND SAFETY REMARKS**

Rainy day - surfaces are slippery.

Issued by :

[Signature]

Signature

05/09/2018

Date

Verified by :

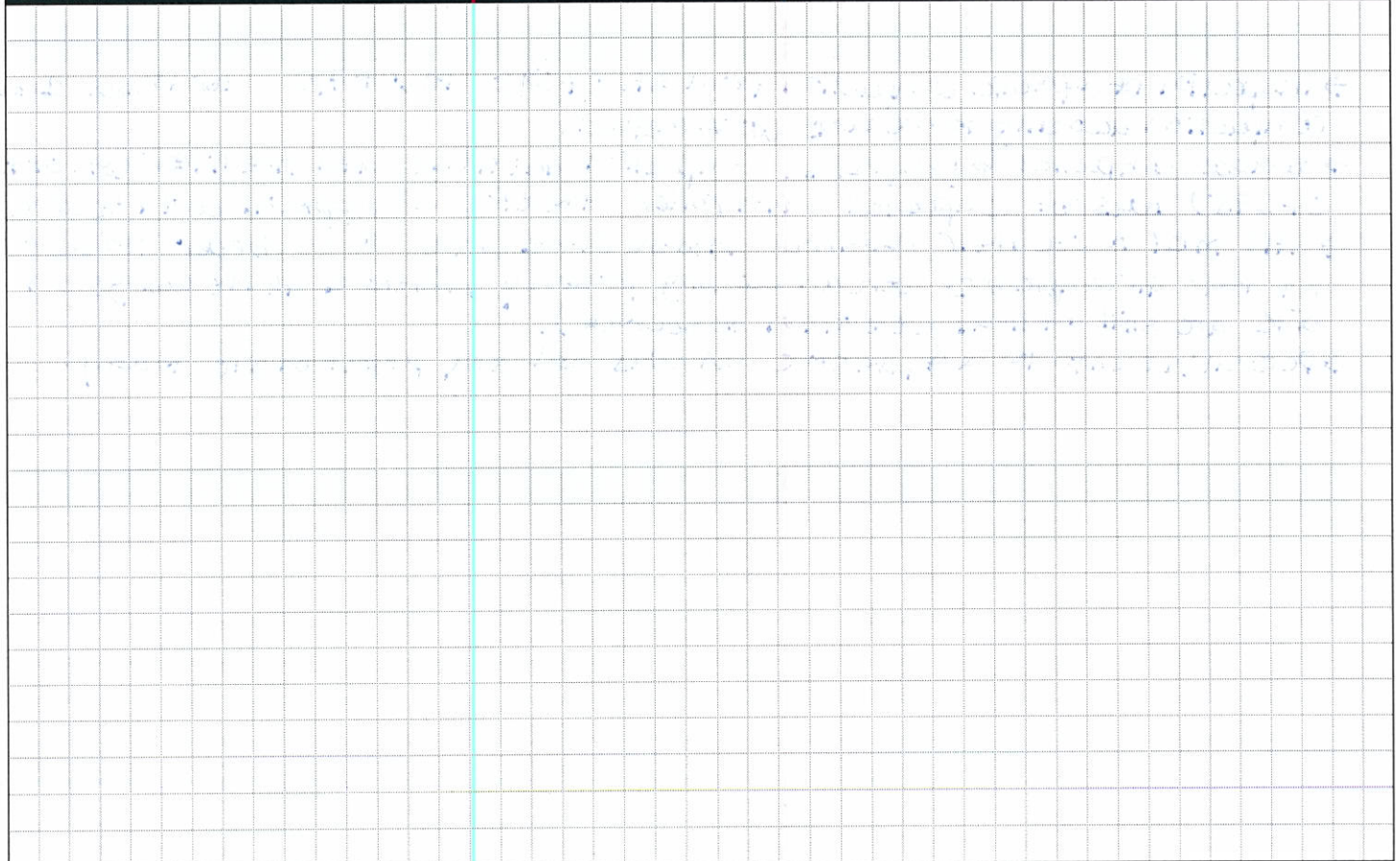
\_\_\_\_\_

Signature

\_\_\_\_\_

Date

**SKETCH**







**SNC • LAVALIN**

**SITE REPORT**  
(Detailed)

20180906-NS-SR

Document number

Visit date 06-09-2018	Time (Start/End) 6PM/6AM	Project No.	Prepared by J. LEBLANC
Project WTD Construction		Client Agnico Eagle	
Consultant SNC-Lavalin		Contractor KCG	
Weather : <input type="checkbox"/> Sunny <input checked="" type="checkbox"/> Cloudy <input checked="" type="checkbox"/> Rain <input type="checkbox"/> Storm <input type="checkbox"/> Snow <input type="checkbox"/> Glaze Wind : <input type="checkbox"/> None gusts <input type="checkbox"/> Light <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Strong, Temperature : 2 °C			
Comments :			
Appendix : <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pictures <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Inspection report or other :			

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Backfilling of the dynamic compaction craters with fine filter material between stations 0+610 to 0+780.
- QC sampling of fine filter material at El. 157.0m, at station 0+665.
- Dynamic roller compaction between stations 0+425 to 0+610. Compaction was achieved to QA/QC satisfaction. This section of the dike is ready for a dynamic compaction approval.
- Henry drilling has the same issue than during day shift with the hammer (not enough air compression). The operator switch back to the Auger and continued drilling casings at the bedrock surface.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

- | No | Subject   | Given to |
|----|---|----------|
| →  | When bedrock is reached (significant decrease in the advancement of the pushing of the casings because the hard surface is reached), the assistant driller put a mark on the casing a 1 foot from the surface. They continue the drilling process until this mark is at ground level. QA/QC then measures the length of casing above ground to determine the final depth of the casing. These measurements will be compared with Henry drilling's measurements of the daily report that stills need to be transmitted during day shift. |          |



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
Backfilling with fine filter	0+610 to 0+780	Ready for approval.
Roller compaction	0+425 to 0+610	to QA satisfaction
QC sampling fine filter	0+665 at El. 154m	Reached bedrock
Secant piles	see sketch	

## SAFE AND SAFETY REMARKS

Slippery conditions with a lot of water. Be aware and take your time

Issued by :

Jonathan Leblanc

Signature

2018-09-06

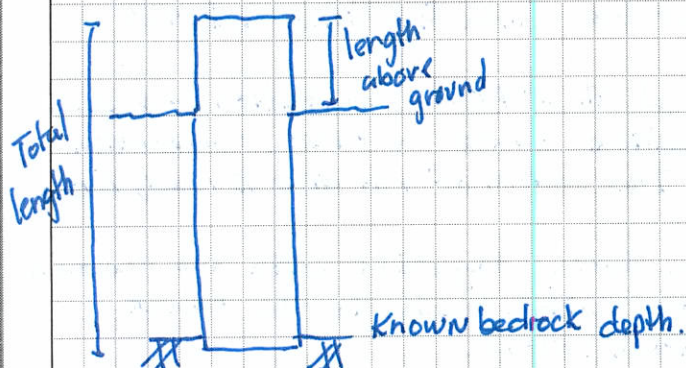
Date

Verified by :

Signature

Date

## SKETCH



<u>Secant Pile</u>	<u>station</u>	<u>Implemented depth.</u>
0049	0+127.15	5.511m
0053	0+130.35	5.626m
0057	0+133.55	5.983m
0061	0+136.75	5.746m
0065	0+139.95	5.897m





SNC • LAVALIN

**SITE REPORT**  
(Detailed)

20180906 - DS - SR

Document number

06/09/2018

6am/6pm

658309

A. Arbaiza

Visit date

Time (Start/End)

Project No.

Prepared by

WTD construction

Agnico Eagle

Project

Client

SNC-Lavalin

KCB (OC by menard and SP by HD)

Consultant

Contractor

Weather :

☐ Sunny

☒ Cloudy

☒ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None

☒ Light

☐ Moderate

☐ Strong,

gusts

Temperature : ~3 °C

Comments :

Appendix :

☒ Yes

☐ No

Pictures

☒ Yes

☐ No

Inspection report or other :

↳ Approval form

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Inspection of dynamic compaction from st. 0+780 to 0+830 for Phases 1 and 2. Compaction according to menard's work method.
- Inspection of dynamic compaction from st. 0+610 to 0+760 for Phases 3 and 4. Menard should be finishing this area tomorrow and demobilizing.
- HD used their rock hammer for casings 0053, 0057, 0061 and 0065. This activity was part of the training that HD is doing to their workers therefore the method they are using is not the final one. Also, these 4 casings were drilled down to bedrock because there was water inside them, therefore it helped HD to use the rock hammer without their pump that is still non functional.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No	Subject	Given to



# SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
• Dynamic compaction	0+780 to 0+830	Phase 1 and 2
"	0+610 to 0+760	Phase 3 and 4
• water elevation at lake	D/S: 152,627; U/S: 152,652	Date = Sept. 3 <sup>rd</sup> 2018

# SAFE AND SAFETY REMARKS

cold weather, always wear warm clothes and protect extremities.

Issued by :

*[Signature]*

Signature

06/09/2018.

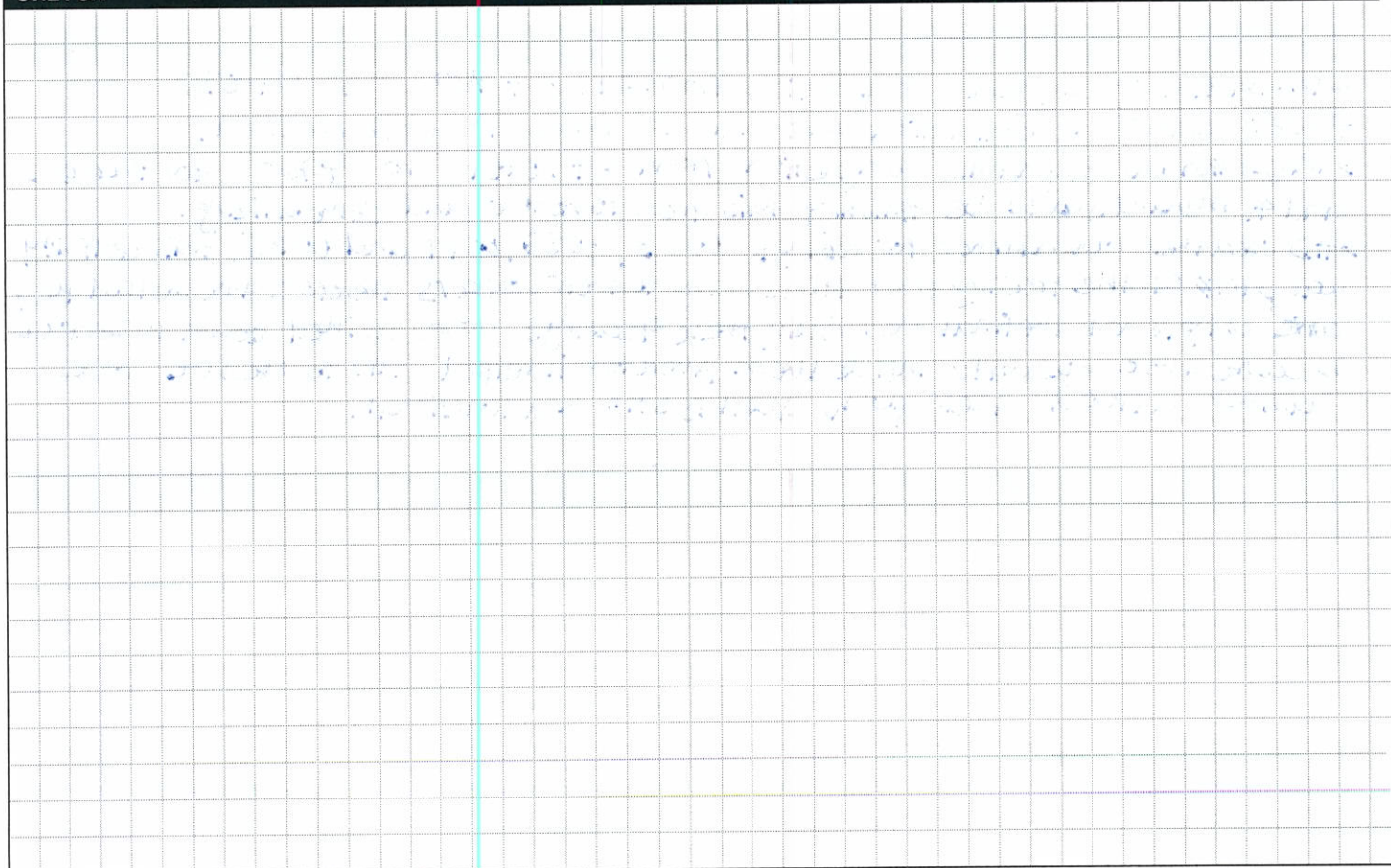
Date

Verified by :

Signature

Date

# SKETCH







SNC • LAVALIN

SITE REPORT  
(Detailed)

20180907-NS-SR

Document number

07-09-2018

6PM-6AM

658307

J. Leblanc

Visit date

Time (Start/End)

Project No.

Prepared by

WTD CONSTRUCTION

Agnico Eagle

Project

Client

SNC-Lavalin

KCG

Consultant

Contractor

Weather :

☐ Sunny

☒ Cloudy

☐ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None  
gusts

☒ Light

☐ Moderate

☐ Strong,

Temperature : 1 °C

Comments :

Appendix :

☐ Yes

☒ No

Pictures

☒ Yes

☐ No

Inspection report or other :

ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)

- Backfilling of craters from stations 0+610 to 0+760 and from 0+780 to 0+830.
- QC sampling of fine filter material at station 0+725 (El. 157.0 m).
- Roller Compaction of Phase 3-4 between stations 0+610 to 0+760.
- Down-the-hole hammer has started during day shift with the completion of secant piles 0057, 0061, 0065. QC representatives measured the final depth of the secant piles at his arrival on site. By the weight and sound of the measuring at the bottom of the pile, it has been judged cleaned of fine filter material by QA/QC satisfaction.

SITE GUIDELINES (guidelines, memos, modification proposals, etc.)

No

Subject

Given to

- Down-the-hole hammer was observed by QC representative and final measures of the depth of the secant pile were taken at the end of the operation (see sketch). All measurements were compiled by QA rep in an excel file.
- Secant piles 0017, 0021 and 0025 are unfinished and will have to be finished during day shift for the CB mix test.
- Casing diameter and wall thickness were measured by QA and QC representative:  
External diameter = 1.00 m Wall thickness = 0.04 m
- When observed, QA asked QC rep. to measure water level in the secant pile (see sketch).



## SPECIFIC ELEMENTS VERIFIED

Elements	Location	Scope and comments
→ Backfilling Fine Filter	0+610 to 0+760 / 0+760 to 0+830	to QA/QC satisfaction
→ Roller compaction	0+610 to 0+760	Ready for approval
→ Secant Piles DTH Hammer into bedrock	See sketch	See sketch

## SAFE AND SAFETY REMARKS

Stay at a safe distance from the drill during DTH hammer since a lot of debris can be projected in the air.

Issued by :

Jonathan Leblanc

Signature

07-09-2018

Date

Verified by :

Signature

Date

## SKETCH

Secant Piles	depth (m)	Bedrock socket (1m min.)
0009	3.58	1.00
0013	4.11	1.12
0029	5.32	1.82
0033	5.04	1.32
0037	5.30	1.43
0041	5.15	1.04
0045	5.14	0.97
0049	<del>5.88</del> 5.81	1.27
0053	<del>6.10</del> 5.88	1.29
0057	<del>5.94</del> 6.10	1.11
0061	5.94	1.15
0065	6.18	1.21

\* Number and type of casings available on site:

## Water level Measurements:

0053	4.07m	El.	152.93
0057	4.12m	El.	152.88
0061	4.10m	El.	152.90
0065	4.03m	El.	152.97
0029	4.12m	El.	152.58
0033	4.52m	El.	152.48
0037	to dork to see water level at the bottom of the pile		

Length (m)	Qty.
5.00	12
4.00	8
3.00	6
2.00	6
1.00	6





SNC • LAVALIN

**SITE REPORT**  
(Detailed)

20180907-DS-SR

Document number

2018/09/07

6AM / 6PM

658309

A. Arbaiza

Visit date

Time (Start/End)

Project No.

Prepared by

WTO construction

Agnico Eagle

Project

Client

SNC-Lavalin

KCB (DC by menard and SP by HIO)

Consultant

Contractor

Weather :

☒ Sunny

☒ Cloudy

☐ Rain

☐ Storm

☐ Snow

☐ Glaze

Wind :

☐ None gusts

☒ Light

☐ Moderate

☐ Strong,

Temperature : -2 to 8 °C

Comments :

Appendix :

☒ Yes

☐ No

Pictures

☒ Yes

☐ No

Inspection report or other :

↳ Approval form

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- Inspection of dynamic compaction from 0+760 to 0+830 phase 3 and 4. Compaction items were checked - See approval form.
- HIO gave an explanation of rock hammering to the client and QA/QC inspectors. It was noticed that some fine filler was still present at the bottom of the casing and HIO responded that the auger is not capable to take out all the material and that about 0,5m can stay if rock hammer is not introduced to the casing (this is because in some casings the rock hammer was not used, only auger since the rock was soft enough).
- Some measurements were taken with the surveyor to check the depth of

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

- ~~No~~ ~~Subject~~ ~~Given to~~
- the bedrock and water inside the casings (see sketch). It was noticed that some material accumulated down to bedrock (about 0,4m). It will be confirmed with HIO if all the casings will be completely cleaned with the rock hammer.
- Roller compaction done after dynamic compaction.



## SPECIFIC ELEMENTS VERIFIED

Elements

Dynamic compaction

Location

ot  
ot 760 to 830

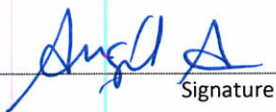
Scope and comments

Phase 3 &amp; 4

## SAFE AND SAFETY REMARKS

It is getting cold - wear appropriate clothes.

Issued by :



Signature

07/09/2018

Date

Verified by :

Signature

Date

## SKETCH

Casing 65 el = 158.43 m  
 depth water = 5.18 m  
 depth rock = 7 m. (151.43)

Casing 45 el = 158.94 m  
 depth water = 5.89 m  
 depth rock = 6.96 m. (151.98 m)





**SNC • LAVALIN**

**SITE REPORT**  
(Detailed)

20180908-NS-SR

Document number

Visit date 2018-09-08	Time (Start/End) 6PM-6AM	Project No. 658309	Prepared by J. Leblanc
Project WTD Construction		Client Agnico Eagle	
Consultant SNC-Lavalin		Contractor KCG	
Weather : <input checked="" type="checkbox"/> Sunny <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Storm <input type="checkbox"/> Snow <input type="checkbox"/> Glaze Wind : <input checked="" type="checkbox"/> None gusts <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Strong, Temperature : ~ 0 °C			
Comments :			
Appendix : <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pictures <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Inspection report or other :			

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

- No activities on dike: Dynamic compaction has been achieved during day shift and there is no more casings (shoe) in order to advance secant piles.
- Secant piles 0017, 0021 and 0025 ~~was~~ have been drilled 1.0 m into bedrock (DTH hammer) during day shift. QA asked QC representative to measure bedrock socket depth (see sketch).
- QA and QC representatives measured water level in all the 15 secant piles (see sketch).
- Measurements were compiled both by QC and QA representatives.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

- | No | Subject   | Given to |
|----|---|----------|
| →  | During the daily meeting of next day shift, we need to ask for the Elevation of Fine Filter that was measured at each secant pile during the implementation by the surveyor since Henry drilling use these fine filter elevations to calculate the elevation of the bottom of the rock socket. These measures have to be the same for everyone in order to be able to approve the drilling of the secant piles. |          |
| →  | Secant pile 0065 was measured again by QC representative to address the problematic highlighted in DS-SR (sediment at the bottom of the pile). The <del>meas</del> depth of the rock socket measured during both DS and NS is comparable with Henry drilling measurement (difference of 0.04m), but sediment can be feel at the bottom of the secant pile by QC rep. while measuring.                           |          |



## SPECIFIC ELEMENTS VERIFIED

Elements

Location

Scope and comments

Secant Piles rock socket

see sketch

During day shift

## SAFE AND SAFETY REMARKS

Be cautious with pick-up truck since there is almost zero visibility on the dike. Clean the head lights often to improve visibility.

Issued by :

Jonathan Leblanc

Signature

2018-09-08

Date

Verified by :

Signature

Date

## SKETCH

Secant Piles

depth (m)

Bedrock socket (1.0 m min.)

0017

4.39

1.21

0021

4.00

1.09

0025

4.35

1.07

Water level Measurements (from ground surface)

0009

3.21 m

0013

3.42 m

0017

3.42 m

0021

3.45 m

0025

3.75 m

0029

3.86 m

0033

3.98 m

0037

4.16 m

0041

4.11 m

0045

4.04 m

0049

4.08 m

0053

4.09 m

0057

4.09 m

0061

4.13 m

0065

4.08 m





**SNC • LAVALIN**

**SITE REPORT**  
(Detailed)

20180908-DS-SR

Document number

08/09/2018

6AM/6 PM

658309

A. Arbaiza

Visit date

Time (Start/End)

Project No.

Prepared by

WTD construction

Agnico Eagle

Project

Client

SNC-Lavalin

KGG (SP by H/D)

Consultant

Contractor

Weather :

☐ Sunny

☒ Cloudy

☒ Rain

☐ Storm

☒ Snow

☐ Glaze

Wind :

☐ None gusts

☐ Light

☒ Moderate

☐ Strong,

Temperature : 0 °C

Comments :

Appendix :

☐ Yes

☐ No

Pictures

☒ Yes

☐ No

Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN** (indicate if test forms were used)

→ Survey with QC and KCB of all the installed casings - elevation of the top of the casing were taken by surveyor and QC took measurements of water depth and bottom of rock. Refer to Secant piles - compilation excel sheet.

→ Method of survey for piles and approval process was discussed with surveyor and client, as well as QC inspector. It was agreed that H/D will take their own measurements by measuring the length of casing and the depth of the bottom of bedrock and then QA/QC will measure by tape as well the depth of the bottom of bedrock and the elevation of the top of the casing with the help of surveyor. In addition, it was discussed with surveyor that the minimum depth of drilling will be determined by the bottom of the casing in the lower angle (compared to bedrock profile) → see sketch.

**SITE GUIDELINES** (guidelines, memos, modification proposals, etc.)

No Subject Given to

→ No batch plant today. H/D still has problems with the plant and KCB has not complete the installation of the permeable (only one installed completely).

→ QA/QC counted the number of secans with Cement-Bentonite:

Barikade = 2 secan (each secan has 10 bags)

Cement-Bentonite = 25 secan

Bentonite = 4

HE cement = 21 (for grout)

GU cement = 22 (for secant piles)

To confirm why there are secans marked cement-Bentonite, others only Bentonite and others Barikade (which is also Bentonite).



**SPECIFIC ELEMENTS VERIFIED**

Elements

water elevation, 06 Sept.

Location

D/S = 152.74 ; U/S = 152.77

Scope and comments

Given by client (AEM)

**SAFE AND SAFETY REMARKS**

Issued by :

*Angela*

Signature

08/09/2018

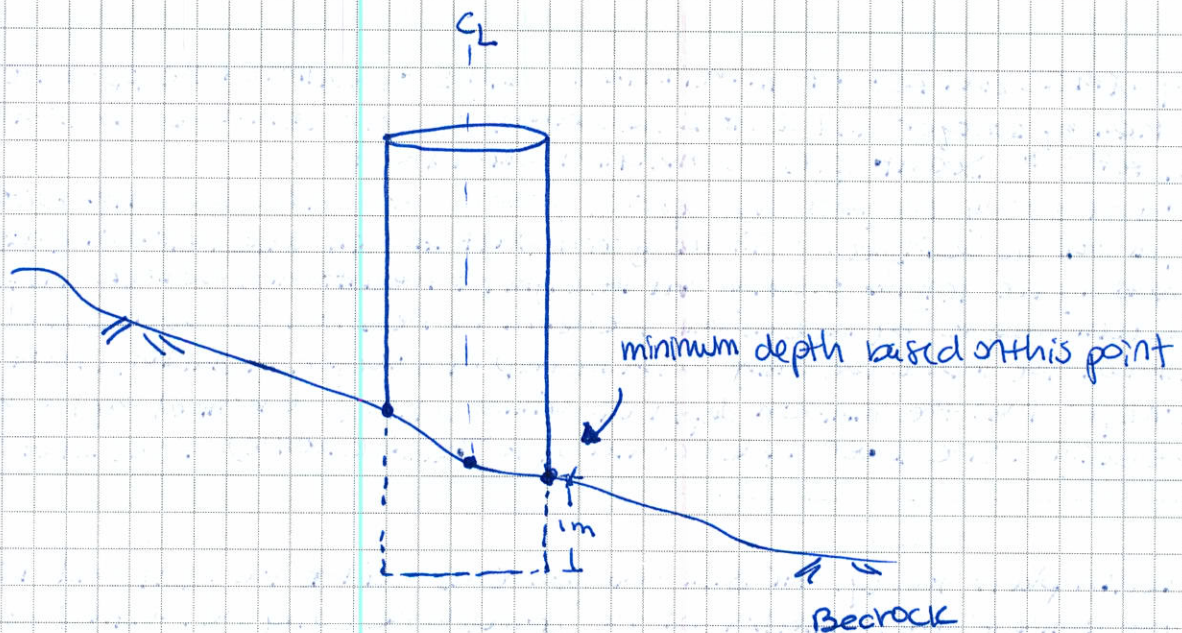
Date

Verified by :

Signature

Date

**SKETCH**







**SNC • LAVALIN**

**SITE REPORT**  
(Detailed)

20180909-NS-01

Document number

09/09/2018 6AM/6AM 658 309 J. LEBLANC  
Visit date Time (Start/End) Project No. Prepared by

WTD CONSTRUCTION Agnico Eagle  
Project Client

SNC-Lavalin KCG  
Consultant Contractor

Weather : ☐ Sunny ☒ Cloudy ☐ Rain ☐ Storm ☒ Snow ☐ Glaze  
Wind : ☐ None gusts ☒ Light ☐ Moderate ☐ Strong, Temperature : ~ 0 °C

Comments :

Appendix : ☐ Yes ☒ No Pictures ☐ Yes ☒ No Inspection report or other :

**ACTIVITIES PERFORMED BY SNC-LAVALIN (indicate if test forms were used)**

- Henry drilling went deeper in the rock for secant piles 0021, 0025, 0029, 0033 and 0037 to practice his crew on the DTH Hammer (Authorized by AEM, as per the previous daily construction meeting, 2018-09-08). QA/QC measured the depth of the bottom of the bedrock for these secant piles and compiled the updated value (refer to secant-piles- compilation excel sheet.)
- 1m rock socket was not completed totally on secant pile 0009 and rework was achieved by Henry drilling. The rock socket has been drilled 0.14m deeper (as per QA/QC measurements). Top of casing elevation discrepancies have to be addressed with day shift surveyor before concluding...

**SITE GUIDELINES (guidelines, memos, modification proposals, etc.)**

No Subject Given to  
...if the rock socket depth is enough. Discrepancies have been found between the survey results compiled in the secant-piles- compilation excel sheet and the top of casing elevations used in the excel sheet sent by Mikhael Harsque (2018-09-08) and used for the vertical deviation calculation.



### SPECIFIC ELEMENTS VERIFIED

Elements

Location

Scope and comments

Secant pile 0009

0+095.15

0.14m deeper. Rock bottom elevation needs to be confirmed.

→ Secant piles 0021, 0025, 0029, 0033 and 0037

0+098.35 to 0+117.55

Rock socket deeper. Compiled in the excel sheet

### SAFE AND SAFETY REMARKS

Heavy equipments working next to the office. Be aware and prudent when outside in the parking lot, especially when going to the laboratory.

Issued by :

*Jonathan Leblanc*  
Signature

2018-09-09

Date

Verified by :

Signature

Date

### SKETCH

