



SGS MUSCOWPETUNG

ABORIGINAL CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD # 5

OCTOBER 22ND TO OCTOBER 28TH, 2018

Social and Cultural Features

Field Observation	# of occurrences	Description and Mitigation Measures	Mitigation Status	Further Action Required (Yes/No)
Traditional Use Area (hunting, fishing, gathering, trapping)	6	HER132 (SSKP623.23-623.47)/177 (SSKP623.69-623.98), HER133 (SSKP623.87-624.12)/178 (SSKP623.69-623.98) & 179 (SSKP623.69-623.98)	Ongoing	Yes
Rock Formations (rocks of significance, tipi rings, etc.)	0			
Artifacts	0			
Bones	0			
Potential Gravesites	0			

Environmental Features

Field Observation	# of occurrences	Description and Mitigation Measures	Mitigation Status	Further Action Required (Yes/No)
Medicinal or Cultural Plants	6	SSKP624.02 VG-57, SSKP622.28-SSKP625.75	Ongoing	Yes
Aquatic Life	0			
Animal Observations or Burrows	0			
Bird Nests	0			
Trees (Red Willow)	0			
Wetlands	6	SK-504, SK-505 & SK-435	Ongoing	Yes
Watercourse Crossing	6	SK-WC68 SSKP624.3, SK-WC64 SSKP581.58	Ongoing	Yes

Additional Observations and Summary of Activities or Concerns

Throughout the week ACM's monitored in the Heritage Resource Areas, HER132 SSKP623.23-SSKP623.47 & HER133 SSKP623.87-SSKP624.12, also located in this area is a Native Prairie Zone SSKP622.28 throughout the right of way, going through 2 wet land crossings SK504 & SK505. Archaeologist Steve Kasston, Golders Archaeologist and the monitors from Pheasant Rump First Nation & Jacobs Archaeologist was also in attendance during the ditching process of the mainline. Ditch is 65 inches (1.7 metre) in depth and does not have to be sloped like a bell hole trench. Crews were ditching the ROW with excavators due to the amount of rock in the area with the use of oilers who assisted in the depth process by measurement. Once the mainline ditch was complete in the HER 132 & HER133 areas up to SSKP623+910 bend area, crews began prepping by having truckloads of fine sand transported and delivered to create a sand bed to protect the pipeline before and after it is laid into the trench, this is to act as a barrier between the pipeline and its harsher surroundings. The lowering process which is lowering the mainline pipe into the trench, mainline pipe must be lowered into the trench safely by utilizing adequate lifting equipment and trained operators, also another issue during the process is protecting workers from injuries associated with pipe lowering operation. Once the mainline pipe was lowered into the trench back fill crews arrived and began to fill the trench with the native backfill material from the area. Due to the amount of rock excavated during the ditching process, excavators with shaker buckets were utilized. These buckets were used to shake the sand through the sifter and have the rock stay in the bucket, this was done to ensure the pipeline and the coating are not damaged during the backfill process. Crews continued for several days compacting the backfilled areas and clearing the right of way of rock and skids from the lowered in mainline pipe. Hydrotesting was also taking place in this area on the HDD pipe sections on both sides of Chapleau Lake SK WC68 SSKP624.03, the water was drawn from approved sources and, after use, will be disposed of along the pipeline ROW, in this case a bin was set up and geo tech fabric was laid underneath to protect the vegetation in the area.

Ending the week monitoring topsoil and excavation at SSKP624+120 which is the end of HER133 area, the excavator placed all topsoil stripped from the area onto geo-tech laid out by an oiler hand, geo-tech fabric is used to protect the vegetation in the area. Clearing around the HDD pipe area and continue to complete the remaining mainline ditch process in that area.

Photos of Sites Visited & Topics Discussed This Week



Beginning of the ditch process



Ditching continues HER132 & HER133



Crews using excavators to create sand bed before lowering



Lowered in mainline section



Backfill process on west of Chapleau Lake



Excavating around pipe in preparation for hydro test



Excavating around HDD area for cut out

Approvals

Prepared by

Jennifer Wolfe

Jennifer Wolfe
Senior Construction Monitor

October 28, 2018

Reviewed by

J Roach

Joseph Roach
Project Manager

October 30, 2018

Approved by

Emmanuel Olotu

Emmanuel Olotu, P.Eng.
Technical Manager, Geotechnical

October 30, 2018

This document is issued by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content of appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.