

**MANITOBA METIS FEDERATION – MATRIX
SOLUTIONS INC. PARTNERSHIP**

INDIGENOUS CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 7

NOVEMBER 26TH TO DECEMBER 1ST

1. PURPOSE OF THIS REPORT

The report is a weekly summary of the daily reports submitted by the Indigenous Construction Monitors that are working on spread seven. The social and cultural findings have been tabulated with locations and mitigation measures below. A summary of the construction activities has been summarized for the weeks of November 26th to December 1st, 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)	N/A	November 27, 2018: Traditional Land Use: 1 RD#38 (SSKP 863 +500) Monitor the heritage resource feature site ID#160 sf 38. Banister have started to do the ditching at this site. There is archeologist present at this site.	YES	
Rock Formations (rocks of significance, tipi rings, etc.)	N/A			
Artifacts	N/A			
Bones	N/A			
Potential Gravesites	N/A			

Environmental Features

Field Observation	# of occurrences	Description and Mitigation Measures	Mitigation Status	Further Action Required (Yes/No)
Medicinal or Cultural Plants	N/A			
Aquatic Life	N/A			

Animal Observations or Burrows	N/A			
Bird Nests	N/A			
Trees (Red Willow)	N/A			
Wetlands	N/A	<p>Nov 26, 2018; Wetland: 1 MB-054 semi-permanent marsh (class 4) wetland complex. Access Crew in area.</p> <p>December 1, 2018: MB-1039-semi permanent marsh (class 4 wetland complex, MB-101 wetland area seasonal marsh (class 3)</p>	YES	
Watercourse Crossing	N/A			

Additional Observations and Summary of Activities or Concerns

On November 26th, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230 make sure your vehicle is equipped with a safety kit just in case of an emergency, follow speed limit at all times, this is the time of year for wildlife to be on the move be aware; High minus 15, Wind chill minus 32 in the morning and minus 21 in the afternoon. Risk of frostbite, UV index 1 or low; RD#2 (SSKP 809 +900) Mainline coating crew are between sf 2 and sf 3. This area is a high risk quarter. The site is very clean as they move north to SF 3; RD#25 (SSKP 835 + 806) Monitor banister tie-in crew at sf 25. The crew is welding and grinding the tie-in at this site; RD#28 (SSKP 839 + 700) Monitor banister at the aqua-dam. Banister is hauling ramp material east of sf 28. The crew is also laying down geo-tech before they dump the material. The geo-tech protects the wetlands. This area is a wetland area MB-054 semi-permanent marsh (class 4) Wetland complex; RD#37 (SSKP 861+800) Monitor banister prepping the ditch at sf 36. The crew is also laying down geo-tech on the 5 meter buffer this protects the topsoil when they pull back the material to do the backing filling of the ditch.

On November 27th, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, slips, trips, falls, congested sites, dress warm for the cold weather; High minus 11. Wind chill minus 23 in the morning and minus 16 in the afternoon, UV index 1 or low. Follow all bio security; Traditional Land Use: 1 RD#38 (SSKP 863 +500) Monitor the heritage resource feature site ID#160 sf 38. Banister has started to do the ditching at this site. There is an archaeologist present at this site. Further mitigation required yes; RD#1 (SSKP 811 + 000) Monitor banister mainline coating crew at sf 2. The coating crew have move to sf 3. The crew is doing a good job of cleaning up as they move forward; RD#22 (SSKP 830 +000) Banister is prepping the site by taking down the fence and cleaning up so they could start to backfill the ditch. The crew is moving east towards sf 23 and start backfilling there also; RD#27 (SSKP 839 +580) Monitor banister at the aqua dam. Banister is moving along very well with this aqua dam. All pumps at this wetland have drip trays. Banister and Enbridge take extra precautions when it comes to the wetlands; RD#38 (SSKP 863 +500) Monitor the heritage resource feature site ID#160 sf 38. Banister has started to do the ditching at this site. There is an archaeologist present at this site.

On November 28th, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, make sure your vehicle is equipped with a safety kit, lots of wildlife this time of year be extra careful, slips, trips, falls, congested sites and weather, have your boot cleats on they prevent you from slipping on ice; High minus 5, wind east 20 km/h gusting to 40. Wind chill minus 17 in the morning and minus 11 in the afternoon, snow amount 5 cm; RD#12 (SSKP 819 + 500) Re-assess the de-watering system at sf 12. The site is very clean and organized; RD#23 (SSKP 831 +600) Monitor banister at SF 23. Banister was prepping at the test point site to install the double wall pipe; RD#28 (SSKP 843 +100) Banister was prepping the ditch at sf 28 cleaning out the ice from the ditch. Once this is complete they will do the tie-in; RD#32 (SSKP 853 +600) Monitor the hydro-vac cleaning out the pig pen ID # PS159.

On November 29th, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, Stars Emergency Link Centre 1-888-888-4567 Site ID# 2832. Do not use cruise control on slippery roads, follow speed limit at all times; High minus 6, Wind chill minus 15 in the morning and minus 10 in the afternoon; becoming a mix of sun and cloud near noon. Fog patches dissipating in the morning; RD#27 (SSKP 837 + 700) Monitor banister sandblasting and coating crew at sf 27. This site is a wetland area MB-050 semi-permanent marsh (class 4) wetland complex. The crews are doing a good job of cleaning as they move forward; RD# 27 (SSKP 839+580) Banister hauling ramp material from the borrow pit east of sf 27 to the aqua dam. This is a wetland crossing area from ID# MB-053 semi-permanent marsh (class 4) wetland complex. The site is very clean and organized at this site; RD#38 (SSKP 863 +500) Monitor Heritage Resource Feature ID# 160. Archaeologists have come up with negative results at this site. Banister is lowering the pipe and will begin to do the backfill; RD#41 (SSKP 868 + 400) Monitor DFI installing 4 driven piles and 4 screw piles at MLV# 25 at sf 41. Hydro Vac was on site; Moving all equipment to the lay down at sf 63.

On November 30th, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, Stars Emergency Link Centre 1-888-888-4567 Site ID# 2832, slips, trips, falls, congested sites, follow speed limit at all times, buckle up your seatbelt before you start to drive, do not use cruise control on slippery roads; High minus 4, wind chill minus 13 in the morning and minus 8 in the afternoon, UV index 1 or low, fog patches dissipating this morning; RD#6 (SSKP 816 +800) Monitor banister pulling back the approach and the geo-tech at sf 6. Banister is making easier for the snow plow to clear the roads; RD#22 (SSKP 829.47 + 829.81) Monitor banister at sf 22 removing the geo-tech on the 5 meter buffer. This area is wetland area; MB-040 semi-permanent marsh (Class 3) Banister and Enbridge take extra precaution when it comes to wetland areas; RD#26 (SSKP 836 + 383) Banister are at sf 26 cleaning out the ice from the ditch before they could do the tie-in. Hydro vac is also on site sucking up water. All pumps and gas jugs on site have drip trays. This site is very well organized; RD# (SSKP 843+900) Monitor banister cleaning out the ditch at sf 28. Before they could even start the tie-in. Banister also using water pumps at this site. They are pumping water to a pig pen ID#PS295. Banister is using drip trays at this site for water pumps and gas jugs. The site is very clean and organized.

On December 1st, Medic's camp 1-780-329-9183, Virden Hospital (204) 748-1230, Stars Emergency Link Centre 1-888-888-4567 Site ID# 2832, make sure you keep good house-keeping at all times, do a 360 walk around your vehicle before heading out to site Buckle up your seatbelt before you start to drive, follow speed limit at all times, make sure you have an emergency kit in your vehicle just in case of an emergency; High minus 4, risk of freezing drizzle early this morning. Fog patches dissipating this morning. Wind chill near minus 13. UV index 1 or low. MB-1039-semi permanent marsh (class 4 wetland complex, MB-101 wetland area seasonal marsh (class 3); RD#14 (SSKP 817.35 +823 .06) Re-assess wetland MB-1039-6 semi-permanent marsh (class 4) wetland complex. Banister lowered in the pipe and backfill in this wetland area. No disturbance was done on the wetland area; RD# 41 (SSKP 868 + 400) Re-assess DFI site where 4 driven piles and 4 screw piles at mvu#25. The workers did a good job on

clean up; RD# 48 (SSKP 880.3 +880.48) Re-assess wetland area MB-101 seasonal marsh (class 3) wetland complex. No disturbance was done on the wetland area.

Photos of Sites Visited & Topics Discussed This Week

November 26, 2018



RD#2 (SSKP 809 + 900)

Mainline coating are between sf2 and sf3
This area is a high risk quarter
Photo taken facing south



RD#26 (SSKP 835 + 806)

Monitor banister tie-in crew
The crew welding and grinding the tie-in
Photo taken facing east



RD#28 (SSKP 839 +700)

Aqua dam at sf 28
Wetland area MB-054 semi permanent
marsh (class 4) wetland complex
Photo taken facing west



RD#37 (SSKP 861+800)

Banister prepping the ditch at sf 37
Photo taken facing east

November 27, 2018



RD#3 (SSKP 811 +000)

Banister mainline coating crew
The crew is moving to sf 3
Photo taken facing South



RD#22 (829 +800 to 830 + 000)

Banister prepping the site to backfill
This site is very clean and organized
Photo taken facing east



RD#27 (SSKP 839 +580)

Aqua Dam sf 27
Wetland MB-053 Ephemeral /temporary
marsh (class 1&2) wetland complex
Photo taken facing east



RD#28 (SSKP 863 +500)

Heritage Resource feature ID#160
There is archeologist on site
Photo taken facing east

November 28, 2018



RD#12 (SSKP 819 + 500)

DE-watering system sf 12
Photo taken facing west



RD#23 (SSKP 831 +600)

Banister prepping to install the double
wall

pipe at sf 23
Photo taken facing east



RD#28 (SSKP 843 + 100)

Banister prepping the ditch to do the tie-in
Photo taken facing east



RD#32 (SSKP 853 + 600)

Hydro vac cleaning out the pig pen
ID#PS159

Photo taken facing north

November 29, 2018



RD#41 (SSKP 868 + 400)

DFI installing 4 driven piles and 4 screw
piles
Photo taken facing east



RD#38 (863 +500)

Heritage Resource Feature ID#160
Archaeologist are on site
Photo taken facing east



RD#27 (SSKP 839 + 580)

Aqua Dam sf 27
Wetland MB-053 ephemeral/temporary
marsh (class 1/ class 2)
Photo taken facing east



RD#27 (SSKP 837 + 700)

Sandblasting and coating crew at sf 27
The crews did a fine job of cleaning up
Photo taken facing west

November 30, 2018



RD#6 (SSKP 816 +800)

Banister pulling back the geo-tech
making easier for the snow plow
Photo taken facing west



RD#22 (SSKP 829.47 +829.81)

Banister cleaning the 5 meter buffer
Wetland area MB-040 semi permanent
marsh (class 3) Photo taken facing east



RD#26 (SSKP 836 +383)

Banister cleaning out the ditch sf 26
Hydro Vac sucking up the water
Photo taken facing east



RD#28 (SSKP 843 +900)

Banister cleaning out the ditch sf 28
Before they could lower the pipe and tie-
in
Photo taken facing east

December 1, 2018



RD#14 (SSKP 817.35 + 823.06)

Wetland area MB-1039-6
Semi permanent marsh (class 4)
Photo taken facing east



RD#41 (SSKP 868 +400)

This is the site where they install 4
driven
piles and 4 screw piles
Photo taken facing north



RD# 48 (SSKP 880.3 + 880. 48)

Wetland area MB-101
Seasonal marsh (class 3)
Photo taken facing south

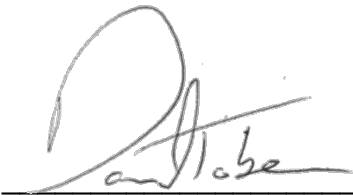
APPROVALS



Arnold Breland
Construction Monitor

December 18, 2018

Date



Daniel Tober
Senior Environmental Scientist

December 18, 2018

Date