

**SWAN LAKE FIRST NATION – MATRIX SOLUTIONS  
INC. PARTNERSHIP**

**INDIGENOUS CONSTRUCTION MONITORING**

**WEEKLY REPORT**

**SPREAD 7**

**NOVEMBER 13<sup>TH</sup> TO NOVEMBER 17<sup>TH</sup>**

## 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 13<sup>th</sup> to November 17<sup>th</sup>, 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)	2	ID # HER 160. Native prairie, KP-863+400.		
		Heritage resource feature ID # 160. SSKP-863+270 to 864+270 next 800 m	HD Bores #1 crew in area.	
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	1		Re-access pre-existing soil bags	
Aquatic Life	N/A			
Animal Observations or Burrows	N/A			

Bird Nests	N/A			
Trees (Red Willow)	N/A			
Wetlands	55	MB-054 semi permanent marsh (class 4) wetland complex SSKP 840+700	Access crew in area.	
Wetlands		SSKP 847+400 MB-069 Wetlands seasonal marsh class 3.	Backfilling in area.	
Wetlands		MB-054 semi permanent marsh class 4. KP-841+300	Access crew in area.	
Wetlands		KP-838+132. class 1 & 2 MB-053 Ephemeral/ temporary marsh.	Access crew in area.	
Wetlands		Wetlands: 1 MB-071 Semi-Permanent Marsh Class 4 Wetland Complex SSKP 848+100	Buffer Crumb crew in area.	
Watercourse Crossing	1	Water course crossing MB-WC-31. ID # Drainage SSKP 903+090	Tacifying crew in area.	

### **Additional Observations and Summary of Activities or Concerns**

Weekly activity included attending daily tailgate meetings and continue to check access points on the ROW and monitor Spread 7.

November 13, 2018 - Safety included: Communication, let your supervisor know your where about and what you are doing at all times. Focus on job at hand. Equipment: keep good eye contact with the operator. Lifting and handling lift with your knees not your back. Hunting season has started make sure you have your high vis on. Make sure you have your boot cleats on the ROW is slippery.

**Weather forecast/Environment:** Temp minus 7, Wind chill minus 24 in the morning and minus 12 in the afternoon. UV index 1 or low.

**General:**

RD#1 (SSKP 808+568) Banister is de-watering at sf 1. Bore pipe has been installed under the roadway. All gas jugs on site are in drip trays. The site is very clean and organized. RD # 1 KP # 808+500. Clean and organized. Generators are well contained. No concerns. RD # 16 KP # 842+883 Dozers levelling off the right of way. Very clean and tidy. RD#28 (SSKP 840 + 882) Banister prepping the aqua dam site. The crew on site is pumping water so banister could start building a ramp to get across this wetland area. This area is a semi-permanent marsh (class 4) wetland complex. They will be installing wetland ramps with material from the borrow pit east of sf 27.

RD#28 (SSKP 847 + 200) Banister back filling at sf 28 going east. They are using spotters to make it easier for the excavator to back fill. RD # 28 KP # 842+882 Worker using ice augers to drill holes in the ice to put the hose in the holes to pump the water over the other side of the aqua dam in the wetlands seasonal marsh class 3. MB-059.

RD#38 (SSKP 863 +400) Monitor the excavating that's going on at sf 38 and running the pilot hole. Archaeologist was on site. RD # 38 KP # 863+371 Re-assessing the pre-existing contaminated soil. ID # HER 160. Native prairie.

**Work Forecast:** Go back and monitor the ROW tomorrow.

November 14, 2018 - Safety included: Muddy sites, slips, trips, falls. Wear the proper footwear. Heavy equipment, keep eye contact with operator at all times. Wear proper P.P.E. Weather dress for the season not the day. Communication, let your co-workers know where you are going and when you will be back. Ice and snow. Take it slow, slow down, stay in control at all times when driving. Hunting season has arrived make sure you wear your high vis at all times. Make sure you have cell service on the ROW just case of an emergency

**Weather forecast/Environment:** Temp 1, Wind chill minus 15 in the morning UV index 1 or low.

**General:** Attended tailgate meeting.

RD#12 (SSKP 819 +500) Monitor Banister prepping the de-watering site. The crew were drilling holes at the de-watering site to get the system up and running. Workers filling in the holes with filtered sand. Walked the right of way checking for oil or gas spills and leaks. No concerns clean and tidy.

RD#20 (SSKP 826 +700) Monitor banister welding tie-ins west of sf 20. Site is very clean and organized. RD#28 (SSKP 840 +882) RE- Assess the aqua dam west of sf 28. Things are going very well at this site. The crew is doing a very good job of keeping it clean. Checked the lighting plant it was well contained. Walked the right of way checking for cigarette butts, garbage, gas or oil leaks or spills.

RD#37 (SSKP 861 + 600) Banister spraying beet juice and tree sap on top of the topsoil. This keeps the topsoil from being blow away in windy conditions.

RD # 28 KP-841+300 MB-054 semi-permanent marsh class 4 wetlands. Reassessing the wetlands workers pumping the water over to the other side of the aqua dam. Checked the right of way for garbage, oil or gas spills, cigarette butts. No issues.

**Work Forecast:** Going to monitor the lines. Re-assess RD # 38. RD # 28.

November 15, 2018 - Safety included: Slips, trips, falls. Watch where your stepping. Pay attention to the terrain. Proper P.P.E. on the work sites. Heavy equipment. Be aware of your surroundings. Keep eye contact with the operator. Dress for weather properly. Housekeeping: Keep vehicle clean. Clean windshield, brake lights and head lights. Do not use cruise control on slippery roads. Hunting season has arrived make sure you wear your high vis at all times on the ROW.

**Weather forecast/Environment:** Temp 1, Periods of snow. Snow mixed with freezing rain early in the morning. Wind becoming north 20 km/ gusting to 40 near noon.

Follow all bio security

MB-054. Semi-permanent marsh class 4. KP-841+300 Access crew in area.

**General:** Attended tailgate meeting.

RD#17 (SSKP 824 +900) Monitor Banister removing some ice from the trench at sf 17. Banister prepping the trench, so they could go ahead and install the trench box and do an x-ray on the pipe. RD#27 (SSKP 839 +200) Banister is prepping the aqua dam at sf 27 going east towards sf 28. The aqua dam site is a wetland area MB-053

ephemeral /temporary marsh (class 1/class 2) wetland complex. RD#28 (SSKP 840 +882) Banister is making very good progress with this aqua dam at sf 28. They have pump all water to the other side of the dam. Ready to put down the geo-tech and building a ramp out of sand. Hauling ramp material from the borrow pit.

RD#38 (SSKP 863 +371 to 863 +983) Banister prepping the native prairie site. Banister will be reaming 38" and installing the trench box at this site. Archaeologist was on site.

RD # 38 KP-853+560. No activity. Clean and organized. Walked the right of way checked for cigarette butts, gas or oil spills, garbage. No concerns.

RD # 31 KP-853+560. Monitor the right of way. Checked for cigarette butts, gas or oil spills, No issues.

RD # 28 KP-841+300 Observed workers checking to see how much more water needs to be drained from the wetlands before continuing onto RD # 37 east. Clean and organized. RD # 37 KP-839+000. Workers setting up the pumps to start the draining the wetlands. Clean and tidy. 2 snow cats coming across the wetlands from RD # 28.

**Work Forecast:** Go back and monitor the ROW

November 16, 2018 - Safety included: Muddy sites, Slips, trips, falls. Wear the proper footwear. Heavy equipment: maintain eye contact with operator at all times. Wear proper P.P.E. Weather dress for the season not the day. Communication: let your co-workers know where you are going and when you will be back. Ice and snow. Take it slow, slow down, stay in control at all times when driving. Buckled up your seatbelt before you start to drive. Follow speed limit at all times. Hunting season has arrived make sure you have your high vis on at all times.

**Weather forecast/Environment:** Temp -9, wind chill near minus 18, UV index 1 or low 30 percent of snow. Wind 15 km/h.

Follow all bio security

**General:** Attended Tailgate meeting.

RD # 4 KP-813+200 Excavator being loaded up onto the flat deck of the semi-truck to transported to other job site.

RD#5 (SSKP 816+200) Monitor Banister tackifier moving east of sf 5. Crew is spraying beet juice and tree sap. This application keeps the topsoil from being blown away.

RD#14 (SSKP 821 +100) Banister doing a very good job of cleaning the site at sf 14. The crew is removing some fencing and geo-tech at this site.

RD # 14 KP-821+183 Excavator digging and breaking up the sand, so the grader can level off the entrance of RD # 14.

RD # 27 KP-838+132 Snow cats busting up the ice in the wetlands to keep it open, so the workers can lay the aqua dam on both sides of the wetlands. MB-053 Class 1-2. Ephemeral / temporary marsh.

RD # 28 west KP-841-300. MB-054. Semi-permanent marsh class 4.

RD#28 (SSKP 840 +882) Monitor banister at the aqua dam hauling sand material from the sand hills east of sf 28. They have also laid down some geo- tech to protect the wetlands. This area is a wetland area MB-054 semi-permanent marsh (class 4)

RD#28 (SSKP 848 +400) Monitor banister at sf 28. Crew is moving east of sf 28 doing some back filling. The site is very clean.

**Work Forecast:** Go back and monitor the ROW tomorrow.

November 17, 2018-Safety included: Congested sites. Be aware of moving equipment, keep eye contact with operator at all times. While driving, pay attention to road conditions and signs. Stay alert. Maintain vehicles, keep clean headlights brake lights windshield. Take garbage out after each shift. Proper P.P.E. to be worn on the job site.

Weather dress for the season not the day. Lifting and handling. Lift with the knees not the back.

All injuries, incidents, and occupational illnesses can be prevented. All operating exposures can be controlled. As a Senior Monitor I'm accountable for safety performance. All employees are responsible for safety. Safety is 24/7 and benefits family, friends, co-workers and community. Be aware of students and children in Brandon area and gravel roads as school is in season. Dress in layers cold weather season here and drink plenty of water as dehydration can happen when cold out.

Muddy conditions and snow be aware of surroundings on foot and when driving.

High winds possible today be careful around crews for dust contamination/coating fumes/welders fumes and also when opening doors vehicles/office doors/bathroom doors.

**Weather forecast/Environment:**

Sunny. Wind southwest 30 km/h gusting to 50. High minus 12. Wind chill minus 33 in the morning and minus 22 in the afternoon. Risk of frostbite. UV index 1 or low.

Minimize the number of environmental non-compliances.

Provides Environmental Due diligence.

Increase and strengthen the communication links between Contractors and Enbridge Construction and Environmental staff regarding environmental considerations and mitigation.

Provide daily on the job awareness/education through assessment and communication of the environmental considerations and mitigation.

**General:** In our morning meeting discussed the freezing weather that can cause frostbite with the windchill from strong winds. Also, be careful around crews that are welding and coating to keep out of direction of wind blowing the fumes.

SSKP 863+385 Reaming 30"bit drill under road on exit side Excavator digging out wet mud inside of trench box. Archaeologist was present monitoring the dig up. Hydro-vac was present to suck up any water.

SSKP 839+000 Access crew Snow Cats breaking ice almost finished. They will continue to install aquas dams through wetland MB-054 Semi-Permanent Marsh Class 4 Wetland Complex. Haul ramp material from the sand hills east of Rd # 28 to the ramp west of Rd # 28. Went to sand hills and the access ramp to monitor construction. They are doing a great job working in the cold conditions.

SSKP 848+100 Buffer Crumb Crew crumbling subsoil off the buffer mulch through wetland MB-071 Semi-Permanent Marsh Class 4 Wetland Complex.

Rd # 28 Monitored the hauling the ramp material from the sand hills east of rd. # 28 KP-840+882 to the ramps west of rd. 28 west KP431+300.

RD # 61 Beet juice applied to the topsoil around the water crossing. Very clean and tidy. KP- 903+000. MB-WC-31. Water course crossing. ID3 Drainage skip 903.09.

RD # 63. Workers has completed spraying beet juice with the tree sap to the topsoil. Walked the right of way. Clean and tidy. No concerns. KP- 903+400.

RD # 50. Attended the tailgate meeting on the workers bus. Banister has completed the pull of the bore across the road. Workers waiting for the corrosion test to come back before back filling the trench. KP- 883+500.

**Work Forecast:** Day off tomorrow. Continue to monitor sensitive areas on Monday and areas of priority.



**Photos of Sites Visited & Topics Discussed This Week**

November 13, 2018

Photo



Description & Location KP-842+882

Photo taken facing west.  
Worker drilling holes in the wetlands.  
Seasonal marsh class 3 ID #SSK 842.

Photo



Description & Location KP-842+883

Photo taken facing west.  
Dozers leveling the right away @ RD # 16



RD#1 (SSKP 808 +568)

De-watering station  
Photo taken facing west



RD#1 (SSKP 808 +568)

Banister doing a good job of putting gas  
in drip trays at the de-watering station  
Photo taken facing west



RD#28 (SSKP 840 +882 )

Banister prepping the aqua dam  
pumping water so they could get across  
the wetland  
Photo taken facing west



RD#28 (SSKP 847 +200)

Banister back filling at sf 28  
Banister using spotters to backfill  
Photo taken facing east

November 14, 2018



Description & Location KP-819+100

Photo taken facing east.  
Bobcat with drill attached drilling holes.  
Workers pouring the filtered sand into the holes.



Description & Location KP-826+700

Photo taken facing west.  
Workers welding the tie-ins.



RD#12 (SSKP 819 +500 )

DE-Watering system  
The crew prepping the site for the de-watering system  
Photo taken facing west



RD#20 (SSKP 826 +700 )

Banister tie-ins crew  
The site is very clean and organized  
Photo taken facing west



RD#28 (SSKP 840 +882)

Aqua Dam  
This is a wetland area MB-054 semi permanent marsh (class 4)  
Photo taken facing west



RD#37 (SSKP 861 +600 )

Banister spraying beet juice and tree sap  
To keep the topsoil from being blow away  
Photo taken facing west

November 15, 2018



Description & Location KP-863+300

Photo taken facing east.  
Reassessing the right away. No activity.



Description & Location KP-853+560

Photo taken facing east  
Hydro vac truck parked  
Lower In crew on left side of picture



RD# 38 (SSKP 863 +371 to 863 +983 )

This area is the native prairie  
Banister going to do some reaming 38"  
and installing the trench box  
Photo taken facing east



RD#28 (SSKP 840 +882 )

Aqua dam sf 28  
Banister pretty much done pumping  
water  
They will be laying down geo-tech and



RD#27 (SSKP 839 +200 )

Aqua dam sf 27 going east  
Banister prepping the site to pump water  
Photo taken facing east



RD# 17 (SSKP 824 +900 )

Banister cleaning the ice out of the trench  
Photo taken facing south

November 16, 2018



Description & Location KP-821+183 51 N

Photo taken facing north.  
Excavator digging up the frozen sand.



Description & Location KP-813+200

Photo taken facing west.  
Workers waiting to get more beet juice mixed with tree sap to continue on with the spraying .



RD#5 (SSKP 816 +200 )

This is the tackifier crew  
This where they spray beet juice and tree sap. To keep the topsoil from being blown away. Photo taken facing east



RD# 14 (SSKP 821+100 )

Banister clean up crew at sf 14  
Crew is doing a very good job of cleaning  
Photo taken facing west



RD#28 (SSKP 840 +882)

Banister at sf 28  
Banister hauling sand across the wetland  
MB-054 semi permanent marsh (class 4)  
Photo taken facing west



RD#28 (SSKP 848 +400 )

Banister doing some back filling at sf 28.  
They are using eco bags on top of the pipe as a anchor they use these in wetland area. Photo taken facing east

November 17, 2018



Description & Location KP-903+400

Photo taken facing north.  
Workers finished spraying the beet juice to the top soil.



Photo taken facing east.

Photo taken facing east.  
Workers went around the water course crossing. MB-WC-31. ID # Drainage SSKP 903.09



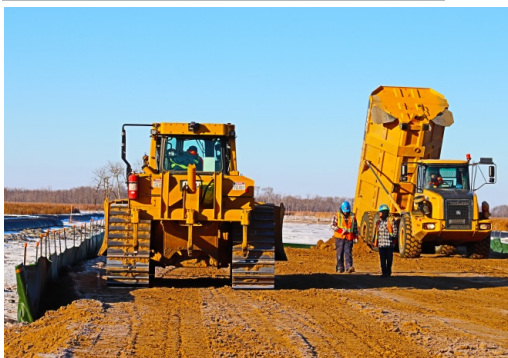
Description & Location: SSKP 839+000

Access Crew  
Snow Cat far ahead breaking ice in a row  
Workers will be installing aqua dams  
Facing east



Description & Location: SSKP 843+000

Access Crew  
Excavator loading Rock truck with sand  
Rock Truck takes load to wetlands ramp  
Facing east



Description & Location: SSKP 840+575

Access Crew  
Rock Truck dumps sand  
Dozer pushes it on wetland ramp  
Facing west



Description & Location: SSKP 863+385

C86:BT109 HD Bore Crew # 1  
Digging wet soil out of trench box  
Hydro-vac sucking up water in trench box  
Facing southeast

**APPROVALS**



\_\_\_\_\_  
Lee Bear  
Senior Construction Monitor

\_\_\_\_\_  
December 18, 2018

Date



\_\_\_\_\_  
Daniel Tober  
Senior Environmental Scientist

\_\_\_\_\_  
December 18, 2018

Date