

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

INDIGENOUS CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 9

AUGUST 13TH TO AUGUST 18TH

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 nine. 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 August 13th to August 18th, 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			
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			
Watercourse Crossing	N/A			

Additional Observations and Summary of Activities or Concerns

Attended daily safety meetings and SA Energy orientation along with Matrix Solutions Orientation provided by Greg Lewis. Weekly activity included becoming familiar with the access points on the ROW and

August 13, 2018 - Safety included: know the medics, where they are and their phone numbers in case of emergency. Adjust speed when driving in close proximity to Spread 9 workers. With winds on gravel roads drive slow when passing and don't follow vehicles too closely give adequate time to stop safely. Weather forecast, a low of +14c with a high +24c with gusts of wind up to 30 KM from NW. Drove to KP 1000+98 WC # MB-WC58 to assess water course bridge, the bridge installed with geo tec set up with t-posts and have safety caps on them as it has been contained from contaminating the water course. Arrived at wetland habitat KP 1002+18-1002+24 Wetland ID MB-181, geotec installed properly. Arrived at KP 1018+750 water course, work has not started. Viewed the Wellington Wildlife Management area at KP 1026+70 a non-wetland where planned tree cutting has not started. Drove to Dead horse Creek KP 1042+000, work has not started. Work forecast, continue to familiarize ourselves with the project and be aware of procedures and fine tune safety guidelines.

August 14, 2018 - Safety included: being aware of people/traffic/heavy equipment, watch for wildlife, obey speed limits and watch for changing weather conditions. Weather forecast, low of +12c and a high of +21c with wind gusts up to 15km/h. Checked cleaning station site at Road 9 KP 1011+97 and they were in the process of grading area with dozer. Could not access KP 1013 non fish bearing drainage too congested but able to access KP 1019 non fish bearing drainage condition was good, the mower has cut crops around it and the hydro vacs were close by daylighting hotlines/cables. Arrived at KP 1027 +900 to 1027+100 to check out the trees that will be cut for the RoW, Travelled back to SA Energy Yard in Morden, MB for a meeting with Greg Lewis, Matrix Solutions to discuss payroll/equipment/washing vehicles/oil changes. Work forecast, monitor in the Gretna area.

August 15, 2018 – Safety features included: Drive with care and consideration, slow down when passing vehicles/people and obey all traffic signs. While driving/walking on RoW be aware of surroundings give equipment operators plenty of space. Weather forecast, low of +12c with a high of +31c and wind gusts up to 15/km hr SW with dry and very dusty conditions on gravel roads. Provided with a list of sites along our project south of Morden, MB to scope out and access sensitive areas. No access roads, took pictures. Travelled to, KP 1057+788/1072+000/1076+000/1079+000/1084+300. Road # 52 KP 1084+300 observed a leopard frog on RoW and no stakes indicating they were there, notified Enbridge/SA Energy environmentalists of the finding and sent them pic with location. Assigned to Road #11/12 KP 1016 to assess the trees being cleared. Work forecast, continue to monitor line by focusing on environmentally sensitive areas

August 16, 2018 - Safety feature: drive with consideration and care, use spotter when necessary, obey all traffic signs. Weather forecast, areas of smoke and haze reducing visibility Temp: 29C/16C for high/low. Dry and dusty conditions be careful on gravel roads poor visibility when passing traffic. Drove out to Road #11 at KP 1016, walked to area of trees that were cleared, noticed trees that were hit that weren't within our boundary, also noticed a small non-fish bearing drainage that I will ask about I could not locate on alignment sheet and will inquire with environment if its of any concern. Next stop was at Road #13 KP 1018+820, right away I noticed an area of possible concern. The slope of the stored top soil is very close to protective barrier of geotec and is stacked high about 12 metres above grade. The soil is loose and should be more compacted as it has the potential with heavy rains to slide and overcome the geotec set in place to protect the non fish bearing wetland, notified senior indigenous monitor Cory Monkman and will inform environment as well. Went to assess dead horse creek and environmentalists were performing tests. Went by KP 1035 to assess Thornhill Coulee could not access at this time. Work forecast, monitor various sites through Spread 9.

August 17, 2018 – Safety features: Be aware of slips-trips -falls, dusty roads, use caution and use spotter when reversing. Weather forecast is cloudy. Arrived at SSKP 1018.62 and did a walk through the piles of excavated material. Travelled along pipe line route on highways and periodically driving in to R.O.W. to check on areas that need to be monitored. Checked on spread 9 along the way paying extra special attention to SSKP1015, SSKP1012, SSKP 102.18. Made way back to kick off, very high concentration of different machinery and personal, found that because of traffic we would save Mary-Jane drainage for another time when congestion is less dangerous. Worked our way back and checked on 1034.5 and monitored the area. Drove to Gretna station observing progress SSKP'S of pipeline waterways and areas of sensitivity along the way. Arrived at Morden field office complete daily reports. Work forecast, continue to monitor various sits on Spread 9.

August 18, 2018 – Safety feature: Driving on gravel road stay a safe distance away, obey all traffic signs, be aware of surroundings from traffic/people/wildlife. At SSKP 1035.13 observed several different kinds of medicinal traditional plants growing in water course area. Also, an abundance of nectar gathering insects. Evidence of a large population of rodents and burrow holes of larger mammals In and around the riparian buffer zone seen evidence of what looks like a dead calf and also seen ruminants of what appears to be two old buffalo wallows. While driving to monitor suggested SSKP's we came across a crew laying down mats SSKP 1027.75, as we looked to the west it was observed that the tree line that was to be monitored was completely cleared. Entered R.O.W. off eastern approach to reach what was to be areas of monitoring treed ridges SSKP's 1025 1026 1027. Drove to Dead Horse Creek. Observed worker applying signage. Made way to check on SSKP 1041.79 and noted that area still has farmers crop. Work way back to field office to compile notes for the day. Work forecast, day off.

Photos of Sites Visited & Topics Discussed This Week



Aug 13/18
Water Course Bridge KP 1000+98
WC #MB-WC58
North side of bridge



Aug 13/18
Water Course Bridge KP 1000+98
WC #MB-WC58
South side of bridge



Aug 13/18
Mary Jane Creek temporary man made crossing
SSKP 1000.98



Aug 13/18
Signage of location and directions of
safety procedures SSKP Range 1016.56-1016.57



Aug 14/18
Compressor used for cleaning station
Rd #9



Aug 14/18
Dozer in background grading area for
station, compressor will be moved to
south boundary opposite from proposed
ditch



Aug 14/18
Wetland Habitat

Wetland ID MB-192
Road # 13



Aug 14/18
North boundary stake (pink) trees to left
will be cleared for RoW access



Aug 15/18
 Rd# 52 KP 1084+300
 Frog on RoW



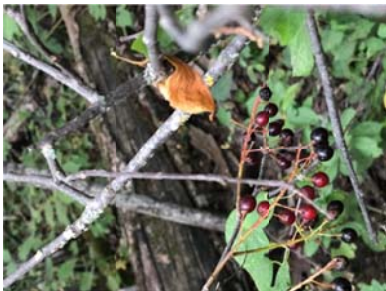
Aug 15/18
 Rd#13 KP 1018+800
 Work beginning, wetland habitat



Aug 15/18
 Large Leopard frog



Aug 16/18
 pinch cherry's SSKP 1016



Aug 16/18
 Choke Cherry's SSKP 1016



Aug 17/18
 KP 1016
 Cleared trees facing south
 Looking towards riparian area (green stakes)



Aug 17/18
Sloped loose soil 12 metres above grade
With heavy rain could slide and overcome
protective barrier (black with wooden stakes)
looking towards north



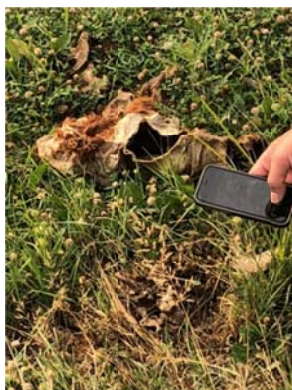
Aug 17/18
On south side on boundary looking east
Damaged tree through inner bark



Aug 17/18
Work still in progress, protecting the
wetland habitat with geotex and T-posts
also the orange mushroom caps being
used for safety, facing towards the south



Aug 18/18
congested area at kick off facing East



Aug 18/18
dead calf hide and bones
SSkp1035.13 looking down into gully



Aug 18/18
Gordie Cardinals Clearing Crew
Installing road mats in ditch
SA Energy

APPROVALS



Lee Bear
Construction Monitor

August 23, 2018

Date



Daniel Tober
Senior Environmental Scientist

August 23, 2018

Date