



SGS MUSCOWPETUNG

ABORIGINAL CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD 6

FEBRUARY 18TH TO FEBRUARY 24TH, 2019

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)				
Rock Formations (rocks of significance, tipi rings, etc.)				
Artifacts				
Bones				
Potential Gravesites				

Environmental Features

Field Observation	# of occurrences	Description and Mitigation Measures	Mitigation Status	Further Action Required (Yes/No)
Medicinal or Cultural Plants				
Aquatic Life				
Animal Observations or Burrows				
Bird Nests				
Trees (Red Willow)				
Wetlands		801 + 710 MB 1027 Class IV HER Resource 712 + 050 SK 748, Class III 713 + 240 SK 749, semi permanent marsh Class IV 714 + 310 SK 752 Class III 713 + 460 SK 751 Class III 742 + 250 SK 851 wetland complex Class IV 745 + 400 SK 863 open water pond Class V HER Resource area 747 + 000 SK 869, semi permanent marsh Class IV 753 + 300 SK 876 – 2 semi permanent marsh class IV 756 + 000 SK 881 Class III 783 + 400 SK 941 Semi permanent marsh Class IV 742 + 850 SK 857 Class III 781 + 100 SK 935 wetland complex Class IV 782 + 390 SK 936 Class III	Wetland ramp removal and restorations were completed as per the EPP	No
Watercourse Crossing		747 + 900 SK WC 86 Drainage (NFB) 740 + 600 SK WC 85 Drainage (NFB) HER Resource area 712 + 330 SK WC 77 Drainage to Montgomery Creek (FB) HER Resource area 715 + 110 SK WC 78 – SK 753 Montgomery Creek (FB) HER Resource Area 716 + 690 SK WC 79 tributary to Montgomery Creek (FB) HER Resource area	WC ramp removal and restorations were completed as per the EPP	No

Additional Observations and Summary of Activities or Concerns

This week safety focussed on the seven common incident causes: Taking shortcuts – Short cuts that reduce your safety on the job are not shortcuts but an increase chance of injury. Over confident – It will never happen to me, is a bad safety attitude that can lead to incidents. Poor communication – Not understanding the procedure to do a task is a risk on your safety. Poor housekeeping – Poor housekeeping creates hazards of all types, good house keeping involves both pride and a safe work place. Safety Procedures not followed – Purposely not following procedures endangers you and your co-workers. Mental distractions – Stress at home or problems within your personal life can be a major distraction at work. Failure to pre plan – JHA's are an effective way to plan your work day safely. Plan your work and then work your plan.

This week our team monitored/observed the ovality excavations. The hydrostatic tests were completed through 684 + 985 – 774 + 230 sections 28, 29, 30 and 31. The ovalities were detected through the tests areas. To expose the pipe, they were daylighted to carefully remove soil from around and below the ovality area. The pipe was washed off for inspection, the engineer calculated/ measured and in some areas additionally excavated and re measured to confirm ovality relieved. The exposed area was then jeeped for deficiencies. If detected the area was repaired, once repaired the exposed area of pipe was shaded with select material and backfilled.

Sections 28 and 29 confirmed ovalities at test completion. Eighteen in total were excavated and corrected. S158, S155 within the area of HER 136 and S153 S149 were completed with excavating the area relieved the ovality, calipered by engineers and passed. The areas were sand shaded and backfilled. Ovality dig S119 Excavated for the first measurement with engineers, additional excavation was required to relieve ovality second measurement passed. S75 Her resource area S73 and S61 were excavated ovality relieved calliper tested and passed by the engineers. S9, Excavation of the area was completed, the engineers did the first measurement and requested an additional meter on either side of excavation. Hydrovac daylighted the additional area. This time it was excepted by the engineers. S13 was within the high-risk area additional bio security was initiated to relieve the ovality. A wash station was constructed for the equipment and trucks entering and leaving this site. S49, S51, S53, were excavated, jeeps that were detected were repaired. Ovalities S34 – 730 + 045 north side of HER 139 Dimi 3 and S127 S93 S84 ovalities were relieved at the beginning of the week, sand shaded and backfilled.

Sections 30 and 31 detected eight areas containing ovalities. S6 Within HER Resource area was excavated measured and an additional excavation was required the pipe was measured and the ovality relieved and passed by the engineers. S62, and S9 These two ovalities were exposed any jeeps detected were repaired the areas were sand shaded and backfilled. S3 Track hoe cleared roach from ovality area, hydrovac confirmation slot and area was excavated ovality relieved. S62 the ovality was sitting on a thin layer of clay with shale underneath. The area was excavated 5m in both directions, over 18 m of pipe had to be excavated for this ovality. The pipe was measured, jeeped, repairs were completed. At S29, HER Resource 137 S48 Heritage Resource Ovality relieved areas sand shaded and backfilled. S41 and S102 HER Resource area the ovalities within these two areas were completed. S 34 At 751 + 820 several jeeps repaired, ovality was relieved and the area of pipe was sand shaded and backfilled. By the end of the week ovalities through sections 28,29, 30 and 31 were completed. Preparation for Hydrostatic testing for section 32 – 779 + 400 – 806 + 625 crew completed set up of instrumentation for the test, sections were filled with water from Cromer station, the test crew pressurized section for test, completed the leak checks, and began strength test. Continual monitoring during pressurization and leak checks. TS32 Hydro test successfully completed. The test results on the last sections of pipe within spread six may determine additional ovalities.

Crews moved forward on the spring mitigation our team monitored and observed wetland ramps removed in low lying areas and restoration of wetlands. 801 + 710 MB 1027 Class IV HER Resource the ramp was removed and restoration to the wetland completed. 712 + 050 SK 748, Class III, 713 + 240 SK 749, semi-permanent marsh Class IV, 714 + 310 SK 752 Class III, and 713 + 460 SK 751 Class III 712 + 330 SK WC 77

Drainage to Montgomery Creek (FB) HER Resource area. 715 + 110 SK WC 78 – SK 753 Montgomery Creek (FB) Clear span bridge removed HER Resource Area. Erosion control installed at the drainage creek and tributary . silt fence and diversion berm on west side of the creek. 716 + 690 SK WC 79 tributary to Montgomery Creek (FB) HER Resource area. Wetland restorations were completed to 742 + 250 SK 851 wetland complex Class IV, 745 + 400 SK 863 open water pond Class V HER Resource area. 747 + 000 SK 869, semi-permanent marsh Class IV, 753 + 300 SK 876 – 2 semi-permanent marsh class IV, 756 + 000 SK 881 Class III, 783 + 400 SK 941 Semi permanent marsh Class IV, 742 + 850 SK 857 Class III, 781 + 100 SK 935 wetland complex Class IV, 782 + 390 SK 936 Class III, 747 + 900 SK WC 86 Drainage (NFB), and 740 + 600 SK WC 85 Drainage (NFB) HER Resource area.

805 + 600 The Pipestone Creek Observed the right of way cleaned up. All the hose was rolled up and hauled off site. The pups, matts and flume pipe were all hauled down to the laydown area for de mob. The large matted area on the east side was cleaned up as well with all the matting loaded on trucks and hauled off site, the geo teck and skids were removed. Backfilling of the ditch line was completed throughout the area. Clay was hauled from the stock pile to construct the roach and silt fence – erosion control was installed on the west bank of the creek.

Additional observations included machine clean up of the right of way. Crews worked on snow removal, ripping and re contouring the right of way. Building up the roach on ditch line and cleaning up debris. Our team observed areas crews were burning brush -784 + 300, 784 + 420, 786 + 900, 787 + 250, 752 + 550, 753+ 850. Our team observed areas where Crews hydro-vac slots for test leads (Cathodic Installs). We continued to observe the block valve installations. 691 + 523 MLBV #18 the frame was installed for this valve. The valve was hauled to site, prepped and set into place. Welds were completed sand bedding and backfilling began at the area. At 706 + 670 MLBV # 19 The bell hole was excavated for this valve. The valve was prepped and taken to site crew installed temporary spool took measurements and took the spool back out. Additional excavating was completed to the bell hole. MLBV #19 was installed and tie ins completed. Sand shading and backfilled. 744 + 666 MLBV # 20 The crew set in platforms to cut out spool from mainline, excavating the ramp was completed and MLBV #20 was hauled to site and unloaded. MLBV # 21 was unloaded at 774 + 232. Installation of MLBV #20 and #21 is ongoing.

Our team continues to monitor Spring mitigation, mechanical clean up and pipeline right of way activities.

Photos of Sites Visited & Topics Discussed This Week



805 + 700 West bank of the Pipestone Creek erosion control.



West bank at the Pipestone Creek MB 1010



Wetland SK 799 restoration in process



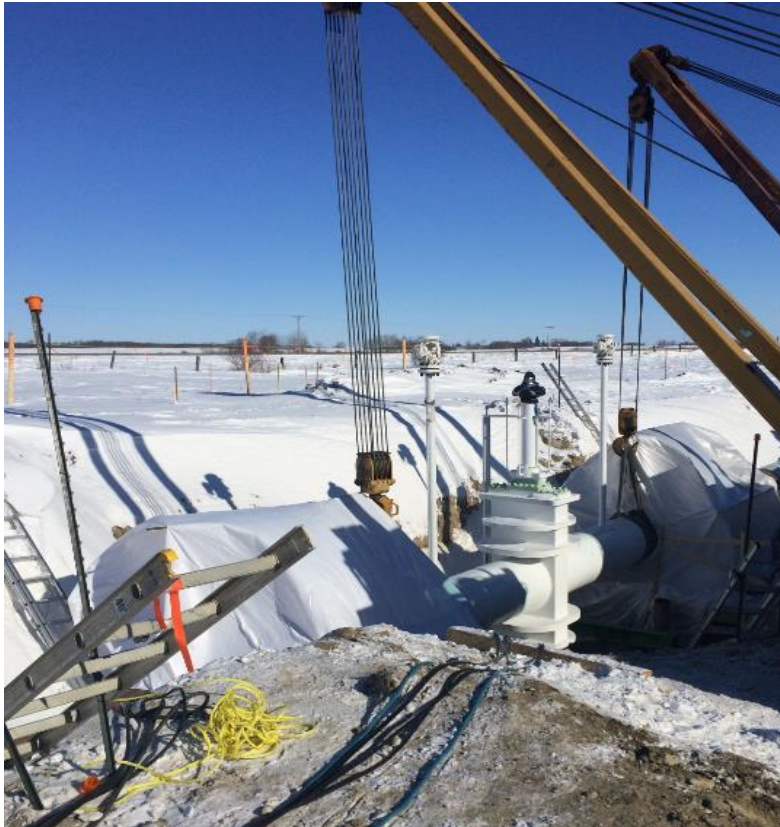
716 + 700 Removing ramp at Montgomery Creek SK WC 79.



715 + 100 Track hoe stripping wetland SK 752 - WC 78.



691 + 535 Installing MLBV # 18



774 + 232 Installing MLBV # 21

Approvals

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February 25th, 2019

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