



SGS MUSCOWPETUNG

ABORIGINAL CONSTRUCTION MONITORING

WEEKLY REPORT

SPREAD # 3

NOVEMBER 27TH TO DECEMBER 3RD, 2017

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) | 0 | | | |
| 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 | 0 | | | |
| Aquatic Life | 0 | | | |
| Animal Observations or Burrows | 0 | | | |
| Bird Nests | 0 | | | |
| Trees (Red Willow) | 0 | | | |
| Wetlands | 0 | | | |
| Watercourse Crossing | 1 | South Saskatchewan River Crossing. Horizontal directional drilling and testing the water turbidity. | South Saskatchewan Crossing ongoing. | Ongoing |

Additional Observations and Summary of Activities or Concerns

The horizontal directional drilling at the South Saskatchewan River is still ongoing. They have reached 1275 metres with the 36-inch reamer. Issues with new fracks and losing too much fluid and mechanical issues have delayed the drilling process but crews have been ready for the fracks and have all been contained. So, they decided to trip back as of yesterday and plan is to drill from exit point in the next few days.

At this time, the testing of the water turbidity by Golder Associates is ongoing and has remained consistent throughout the week.

Tie-ins are still ongoing with no with environmental concern. Also, the backfilling of ditches and bell holes are still ongoing with no concerns currently.

Hydro testing of the mainline has been completed of the first three phases of the mainline. They will be de-watering the mainline this week. They have made a filtering box which the water will flow through before its released into the field.

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Photos of Sites Visited & Topics Discussed This Week



FLUID LEAK THROUGH HYDRAULIC HOSE WAS CONTAINED IMMEDIATELY

North West Elevation

☉ 123°SE (T) ☉ 51°20'57"N, 106°58'9"W ±16.4ft ▲ 1723ft



FLUID FROM FRACK

North Elevation

☼ 192°S (T) ● 51°20'55"N, 106°58'0"W ±16.4ft ▲ 1754ft



FRAMING HOARDING OVER A TEST HEAD

North East Elevation

☼ 243°SW (T) ☉ 51°21'20"N, 107°0'1"W ±16.4ft ▲ 1726ft



29 Nov 2017, 11:30

FILLING SAND BAGS FOR DIVERTING WATER

North Elevation

☼ 187°S (T) ● 51°21'24"N, 106°59'58"W ±16.4ft ▲ 1714ft



FILTERING BOX FOR DE-WATERING

North West Elevation

☼ 116°SE (T) ● 51°2'20"N, 106°11'52"W ±16.4ft ▲ 1871ft



LOWERING IN SECTION OF PIPE FOR TIE IN



FRACK FLUID



POINT OF DE-WATERING MAINLINE



X-RAY OF WELD

East Elevation

☼ 256°W (T) ● 51°20'51"N, 106°57'35"W ±16.4ft ▲ 1786ft



30 Nov 2017, 14:22

INSTALLING POLY OVER HOARDING FRAME

West Elevation

☼ 110°E (T) ● 51°0'56"N, 106°8'37"W ±16.4ft ▲ 1908ft



WELDING OF A TIE IN

North Elevation

☼ 193°S (T) ● 51°20'56"N, 106°58'8"W ±16.4ft ▲ 1717ft



02 Dec 2017, 12:01

FRACK FLUID



PACKING IN DIRT IN A BELL HOLE (BACKFILLING AND COMPACTION)

Approvals

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December 3, 2017

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December 5, 2017

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December 5, 2017