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Navigation Protection Program

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No Interference with Navigation Notification of Work

Registry Number

11153

Application Title

Wascana Creek Crossing

TC File Number

N/A

Province/Territory

Saskatchewan

Body of water

Wascana Creek

Work Type

Pipeline

No Interference Justification

A potable water pipeline and will be installed below the banks of Wascana Creek by the

horizontal directional drill (trenchless) process. Works are not planned within or above the Creek that will interfere with transportation along the watercourse.

Brief project description

Associated Engineering plans a redesign for the City of Regina Cast Iron Watermain replacement. The redesign includes designing a horizontal directional drill approximately 2 m west of the existing cast iron pipe and replacing with a new 500 ml poly pipe for potable water. The new pipeline will parallel the existing pipe. The new pipe will be at a depth between 2.7 m to 3 m. The pipeline will be tied into a new poly line system. Once installed and in operation, the existing cast iron pipe will be decommissioned utilizing bentonite and capped and both ends.

Method of construction

The construction includes installing 500 mm HDPE DR 11 under Wascana Creek by horizontal directional drilling (HDD) processes. Pits will be excavated at Station 1+000 on the north side of Wascana Creek and near Station 1+100 on the south side of Wascana Creek. It is undecided which pit will be an entry pit and which will be an exit pit. From the entry pit, the contractor will follow the profile as close as possible using a walk over system, F5 Falcon with a 475 mm (19”) Transmitter until we reach the exit pit. At the exit pit the contractor will remove the smart head and attach a 400 mm (16”) Reamer and pull reamer from exit pit back to entry pit. Once the entry pit is reached, the 400 mm (16”) reamer will pushed back to exit pit. Once at the exit pit, the 400 mm (16”) reamer will be removed and a 600 mm (24”) reamer will be attached. The 600 mm reamer will be pulled back to the entry pit and pushed back to the exit pit similar to the 400 mm reamer process. Once the 600 mm (24”) reamer is back at the exit pit, a 750 mm (30 “) reamer will be attached and the process of pulling to the entry pit and pushing to the exit pit will be done. Once that is complete the contractor we will determine if the hole needs a wiper pass to clean out any remaining debris, if so a wiper pass will be completed. If not, the 500 mm diameter HDPE pipe will be connected to the 750 mm (30”) reamer along with a 140,000lbs in line swivel and pull the pipe and reamer back to entry side. Once at the entry pit, will detach the HDPE from the swivel and pull the rest of the stem to the drill equipment to complete the process.

Expected Construction Dates

Expected Construction Start Date

2024-10-01

Expected Construction End Date

2024-10-31

Site Location

Latitude

50.439444

Longitude

-104.631111

Submission Date

2024-07-15