



REPORT

To: Electoral Area Directors Committee

Report Number: ENV-EADC-007

From: Kari Bondaroff, Environmental Services Manager

Date: December 17, 2020

Subject: North Peace Airport Subdivision Water and Sewer Condition Assessment

RECOMMENDATION #1:

That the Electoral Area Directors Committee receive the report titled "North Peace Airport Subdivision Water and Sewer Condition Assessment – ENV-EADC-007", which includes the PRRD XYJ Water-Sewer Network Assessment Report, as submitted by Pure Technologies, a Xylem Brand, for discussion.

BACKGROUND/RATIONALE:

The 2019-2022 Regional Board Strategic Plan includes an Organizational Effectiveness Strategy that includes undertaking condition assessments for all PRRD owned assets. A condition assessment of the North Peace Airport Sewer and Water systems was completed in 2020 (see attached).

The 2020 assessment report outlines the current site conditions:

NP Airport Subdivision Waterline Findings – Function 701

- The asbestos-cement waterline main was found to be in good condition. Without conducting a pressure test, a prediction of the pipe's remaining life was non-conclusive and yet estimated to be 15-20 years.
- There are seven inline valves and eight hydrants within the water system. Four of the inline valves were found inaccessible or non-functioning.
- The iron fittings found within the system are suspected to be in severe condition due to oxidation. These fittings are found within the T-joints, valves, and hydrants. As such, hydrant and valve maintenance and inspection of the T-joints when valves are replaced is necessary to ensure the mainline continues to function without leaks.
- Estimated cost for replacing the remaining valves and hydrants is \$125,000.
- Estimated annual contractual costs for inspecting and maintaining the 8 hydrants is \$15,000, replacement parts not included.

NP Airport Subdivision Sewer Findings – Function 603

- All defects observed during the video recording of the entire sewer system were ranked on a scale of 1-5. The scale 5 being the most severe requiring immediate repair or replacement, 4 indicating defects should be addressed within 1 year, and 3-1 needing to be periodically monitored.
- There are twenty six segments of sewer pipe that were evaluated. Three segments require immediate repair or replacement as they have segments within them that are ranked as a 5.

These are segments 2, 7, and 21. Fifteen segments require repair within the next year, these all have a ranking of 4 within them. These are segments 1, 3, 4, 6, 8, 9, 10, 11, 14, 18, 19, 20, 22, 23, and 24. The remainder of the segments have a ranking of 3 or lower.

- Estimated cost to replace all of the segments with a ranking of 4 or 5 is \$800,000.

Financial implications of the assessment are reviewed in the reports listed in Financial Considerations.

ALTERNATIVE OPTIONS:

1. That the Electoral Area Directors Committee provide further direction.

STRATEGIC PLAN RELEVANCE:

- ☒ Organizational Effectiveness
- ☒ Develop a Corporate Asset Management Program

FINANCIAL CONSIDERATION(S):

For complete financial summaries and budget implications, refer to the following reports on the December 17, 2020 Rural Budgets Administration Committee Meeting Agenda:

- North Peace Airport Subdivision Water 2020 and 2021 Budget – ENV-RBAC-010
- North Peace Airport Subdivision Sewer 2020 and 2021 Budget – ENV-RBAC-011

COMMUNICATIONS CONSIDERATION(S):

None at this time.

OTHER CONSIDERATION(S):

None at this time.

Attachments:

1. PRRD YXJ Water-Sewer Network Assessment Report.pdf