water and wastewater

URBANSYSTEMS.

City Wastewater Outfall

City of Chilliwack

The project consisted of a total of 1,600 m of 1220 mm diameter pipe. Approximately 1,200 m of the outfall was constructed with high density polyethylene pipe, the remaining 400 m was constructed with steel pipe. The new outfall is designed to accommodate the City of Chilliwack's rapid growth for the next 25 years in which time the city anticipates their population to double.

CHALLENGES

- Construction had to occur within a 4 month window when the Fraser River was at it's lowest level. Maintaining schedule during both design and construction stages was critical.
- The new outfall was located less than 4 m from the existing pipe. Consideration was given to preventing the existing pipe from falling into the open trench during construction.
- Approximately 1,200 m of the outfall is located within Skway IR #5, Urban Systems acted as a liaison between the City of Chilliwack, Skway First Nation, Indian and Northern Affairs Canada, and the Contractor to ensure all stakeholder interests were considered.
- Approximately 200 m of the outfall passes through a till layer overlying an unconsolidated layer of peat. Lightweight fill was used to minimize the chance of differential settlement of the new outfall.
- 100 m of the outfall was required to be located under the centreline of a major connector road in Chilliwack, this required the daily closing of the entire road and prompt work to allow it to be re-opened for evening traffic.

client
City of Chilliwack

project
City Wastewater Outfall

services
Design, Tendering, Contract Administration & Construction Supervision

year
2002

file
6.1036.0033.03