

Calgary, Alberta

Sanitary Sewer Line Replacement using Weholite



Less than 20 years after a reinforced concrete pipe was laid to connect the Albertan city of Airdrie with Calgary's Bonnybrook Wastewater Treatment Plant, severe corrosion had taken its toll.

Sewage became septic as it ran through the system, producing high levels of hydrogen sulfide which corroded the structural steel, destroying the integrity of the pipe. A section running beneath Nose Creek was already so compromised that it had to be replaced - ideally with a pipe that offered superior anti-corrosion properties.

Infra Pipe delivered a portion of the solution to demonstrate the suitability of Weholite in a highly corrosive sewer environment. The contractor, Volker Stevin, laid 1,860m of 60" HDPE lined, reinforced concrete pipe. The replacement pipe also included a 140m section of 60" RSC 160 Weholite for trial purposes.

Tests conducted three years later showed "the inspected pipe was in excellent condition, with no ovality... no discernible wear... bonds and joints are in excellent condition." Weholite was made an acceptable material by the City of Calgary, and is scheduled for inclusion in additional sanitary line projects.



A test of 60" RSC 160 Weholite pipe proved very effective.

Project:
Sanitary Sewer Line Replacement

Owner:
City of Calgary

Application:
1,860 metres of
60" HDPE lined reinforced
concrete pipe,
140 metres of 60"
RSC 160 Weholite

Engineers:
City of Calgary – Wastewater

Contractor:
Volker Stevin