

Project Brief

Specified Manhole Base Liners
Pierce County, WA



PREDL systems
THE MANHOLE LINER EXPERTS



PREDL SYSTEMS Solutions

- Stop Inflow and Infiltration (I & I)
- Superior benching



Pierce County, located in Washington State south of Seattle, contains 22 cities and towns linked to the Chambers Creek Regional Wastewater Treatment Plant. As with many areas in the Pacific Northwest, the region experiences heavy rainfall and high ground water.

Pierce County Public Works and Utilities **specified and installed their first lined manhole base in 1989**. The county was impressed by the watertight pipe connecting bells included on all manhole base liners. In addition to the watertight connections, traditional concrete benching needed to be repaired or replaced within 10 years of installation. The first lined manhole bases installed in 1989 show no signs of wear with virtually no maintenance. Over the years, **more than 10,000 lined manholes** have been installed in the region.

As the County continues to upgrade the collection system, the real benefit of lined manhole bases is being seen. In a neighboring sewer district, which has not specified PREDL SYSTEMS manhole base liners, the inflow and infiltration (I&I) rate increases 7 times during a storm event. In Pierce County, the I&I rate increase is just 1.5 times during the same event. This **dramatic reduction in I&I** has a direct savings in treatment cost and preserves plant capacity. With a recent investment of \$305 million into treatment plant upgrades, Pierce County is extremely pleased that their small investment in superior infrastructure is paying off big returns.

Customer:

Public Works and Utilities
Pierce County, WA

Engineers:

Robin Ordonez - Wastewater Utility
Engineering Manager, Pierce County

Contractors:

Various

Precasters:

Various

Date:

1989 - Present

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