

Mike Nepple – Sample Professional Experience

Owner: Lake Chelan Sewer District, Chelan, Washington

Project: South Shore Sanitary Sewer System Replacement & Extension

References: Dwane Van Epps, Director of Chelan Public Works - (509) 682-8030

Howard Laughery, P.E., LCSD Engineer (Retired) - (509) 886-3012

Jack Goehry, LCSD Commissioner (Retired) - (509) 682-5219

Background: An asbestos-cement pipe sewer collection system built in 1959 had failed. Excessive infiltration overloaded the City's wastewater treatment plant.

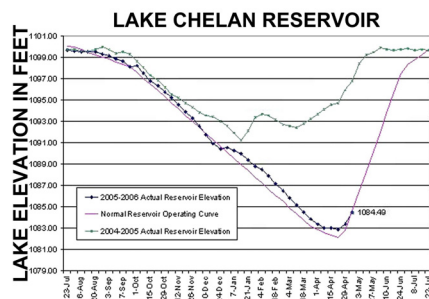
Challenges and Issues:

- The leaking interceptor piping was located within Lake Chelan, about 20 feet below the high-water elevation.
- The lake serves as the regional drinking water supply.
- Lakefront homes required lateral service line replacements.



Mike's Role: Mike served as project manager and lead designer under former employment. Developed ULID assessment methodology, performed hydraulic modeling, prepared civil & mechanical designs. Administered several major construction contracts over a four year period.

Scope of Project Services:



- Obtain required DOE approvals & assist in securing state, federal and local permits & approvals for in-lake construction.
- Assist the owner in securing grant and low-interest loan financing.
- Model system hydraulics to establish capacity for growth, and to establish operational impacts on receiving facilities.
- Prepare design documents, and provide turnkey bidding, construction, testing, and closeout services to the Owner.

Outcomes:

- Replaced over three miles of mainline sewer within lakebed with HDPE pipe. Replaced 1,100 LF of pipe below existing homes by bursting.
- Modified three pump stations to increase capacity, added a new pump station with telemetry and odor control facility.
- Pipe replacements completed in 1999 reduced flows to the WWTP by about 160,000 gallons per day and reduced system maintenance requirements to a minimum.
- The uplake system extension was completed in 2002.

