

Mike Neppe – Sample Professional Experience

Owner: Firgrove Mutual Water Company, Washington

Project: Zone 2 Reservoir and Controls Facilities Design

References: Mr. Larry Jones, General Manager - (253) 845-1542

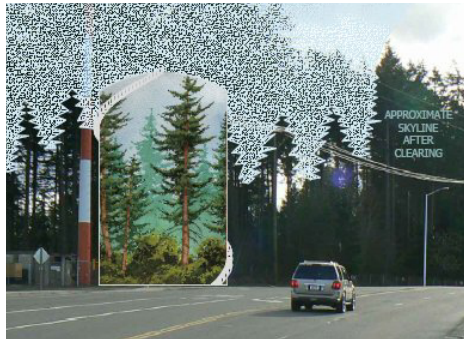
Mr. Leonard Horton, Field Superintendent - (253) 845-1542

Background: The water company had inadequate storage capacity and a system configuration that lead to excessively low pressures in the distribution system. Mike prepared a project report for reservoir facilities to meet the mutual company's storage requirements. Coldwater assisted the water company with permitting, design and construction phase for a new 2.9 million-gallon storage reservoir with associated pumping facilities, control systems and intertie modifications.

Challenges and Issues:

- The five-zone water system is hydraulically very complex.
- Some existing reservoirs are experiencing stagnation, while other portions of the system lack adequate equalization storage.

Mike's Role: Overall management of multi-disciplinary design team, civil and mechanical design, and proper hydraulic integration of the new facilities with the existing water system.



Scope of Project Services:

- Assisted owner in developing land acquisition agreement with the project site property owner.
- Secured required local, State and DOH approvals for site construction.
- Prepared project design documents for competitive bidding under drinking water SRF loan program.
- Provide support to water company staff through the bidding, construction, testing, and startup phases.

Project Elements:

- 2.9 million-gallon steel standpipe reservoir.
- New pump building with PLC-based controls and radio-based telemetry communications.
- 4.3 MGD pump station to utilize 'dead storage'.
- Hydraulic control valve at an existing reservoir site.
- Equipment to provide reservoir mixing and reduce water aging.

Outcome: Construction is in progress.

