

# Harry Tracy Water Treatment Plant Upgrade

San Bruno, CA

**Owner:** San Francisco Public Utilities Commission  
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**General Contractor:** Kiewit Infrastructure West Co.  
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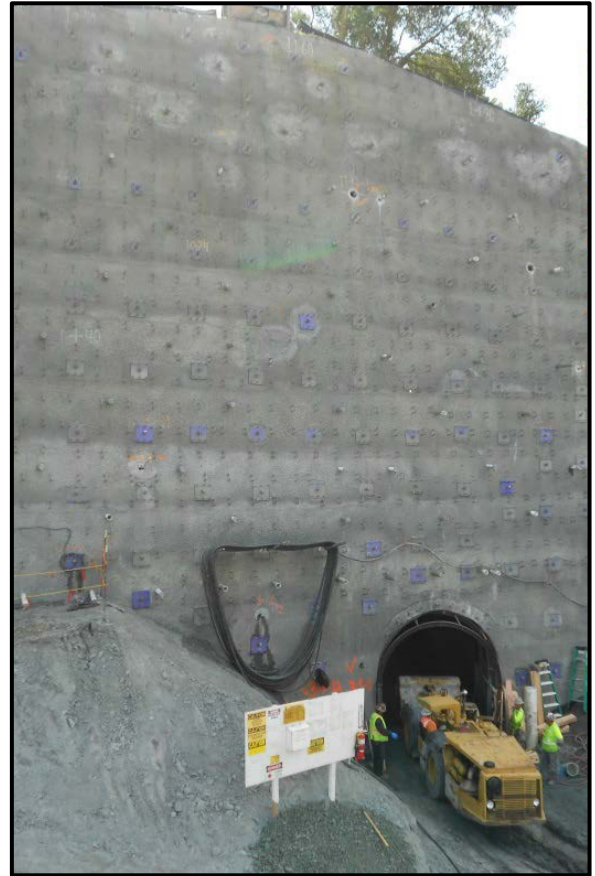
**Engineer/Architect:** Jacobs Associates  
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**DTDS Project Manager:** Brett Mainer & Steve McCullough  
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**Year Performed:** June 2011 – December 2012

**Contract Value:** \$5,048,920

**Major Scope:** Tunnel, Shaft, Soil Nail Wall, Soldier Piles, and Micropiles



## Project Description:

Two 12 ft x 12 ft horseshoe shaped tunnels approximately 300 foot long driven via Roadheader. Ground support consisted of wide flange steel sets with shotcrete lagging. Subsequent to tunnel excavation, 108" diameter welded steel pipes were installed, and the annulus filled with cellular grout. Multiple permanent sculpted shotcrete soil nail walls were also located throughout the water treatment plant. The largest single wall area is approximately 23,000 square feet and has a maximum retained height of approximately 8 feet. Several micropile foundations were also constructed at the site.

