

Tunneling Services

MWH, now part of Stantec, has the project experience and expertise to provide innovative solutions for the challenges facing all types of tunneling systems.

We have been involved in investigating, planning, designing and constructing underground and trenchless projects, using proven and advanced underground design and construction. Our underground engineering services are delivered by talented, responsive professionals who leverage our global capabilities to enhance local project delivery.

500 miles of tunnels
Over **300** large-diameter shafts
Over **200** underground chambers
100's of trenchless projects

Our team applies **specialized knowledge and experience** to efficiently meet the needs of our clients.

Austin Wastewater Treatment (Texas, USA)



This project takes raw water from Lake Travis and connects it to a pump station via a 9-ft finished diameter tunnel. From this station, raw water is pumped up to the water treatment facility. The Jollyville transmission main was tunneled and includes approximately 36,300 lf of 84-in pipe.

Red Hill Underground Fuel Storage Facility (Hawaii, USA)



The Red Hill project is the primary fuel depot for the United States Navy's Pacific Fleet. Diesel fuel flows by gravity through a 32-inch pipeline and jet fuel flows through 16- and 18-inch pipelines through the Red Hill tunnels to Pearl Harbor.

Neelum-Jhelum Hydropower Project (Muzaffarabad, Pakistan)



This project involves a 184-ft-high concrete gravity dam on the Neelum River to divert water through a 17.7-mile-long headrace tunnel system to an underground 4-unit power station designed to generate 970-MW of electricity. The headrace tunnel crosses under a major river and passes through a seismically active fault.

Our experts apply specialized knowledge and experience to offer **world-class underground engineering services** to efficiently meet the needs of our clients.

Our integrated approach to water and wastewater conveyance combines experience in water engineering with superior capabilities in tunneling.

- » Aqueducts and water-supply tunnels
- » Wastewater tunnels
- » Combined sewer overflow (CSO) storage and conveyance
- » Drop shafts/vortex shafts
- » Gate and valve shafts
- » Pump station, caverns, valve chambers
- » Intakes and outfalls
- » Trenchless Technology – HDD, microtunnels

We provide strategic planning, design, construction management and maintenance services for underground space development projects.

- » Underground research/laboratory facilities
- » Highway tunnels
- » Subway tunnels and station caverns
- » Elevator and ventilation shafts
- » Utility tunnels

We are an industry leader in hydroelectric, dam and pumped storage tunneling components.

- » Power tunnels
- » Diversion tunnels
- » Shafts and inclines
- » Surge chambers and surge shafts
- » Powerhouse, transformer and valve chambers
- » Inlet/outlet tunnels
- » Access tunnels

Our underground engineers support mining tunneling needs for applications used for mine infrastructure, tailings dams and environmental remediation.

- » Surface water diversion tunnels
- » Mine planning and underground development
- » Ore haulage and slurry tunnels
- » Shafts and declines
- » Dewatering systems



Brightwater Conveyance Tunnel

Additional Services

- » Geotechnical investigations
- » Hydraulic studies and modeling
- » Gates and valves
- » Fire and life safety systems
- » Risk and claims management
- » Constructability and cost estimating
- » Construction and program management
- » Inspection
- » Rehabilitation
- » Tunnel Boring Machine (TBM) procurement
- » General contracting

MWH, now part of Stantec, unites architects, engineers and consultants to bring water and infrastructure projects to life. Globally, our community's 22,000 employees always **design with community in mind.**



now
part of



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