



HORIZONTAL WATER SUPPLY SOLUTIONS

Groundwater collection, pumps and controls for irrigation and continuous water-supply needs

A horizontal well is a buried groundwater-collection system. A long section of heavy spec slotted tile, with options for double or triple filter sock, is installed in suitable soils and connected to a standpipe and pump. By collecting water along a broad section of the aquifer, the system can support dependable irrigation and other continuous non-potable water-supply needs.

What a complete water supply well service includes

Diversified Dewatering can assist from site evaluation through startup: confirm the intended use and required flow and pressure, test candidate locations, recommend well length and sock configuration, install the horizontal well, select and install the pump, provide controls, test performance and commission the system.

Services available

- Horizontal well installation
- Submersible pump installation
- Well pump replacement and pump testing
- VFDs, controls, startup and commissioning

Industries and non-potable water-supply uses

Row crops, orchards, vineyards, nurseries, sod farms, golf courses and municipal irrigation needs. Schools, hospitals and firehouses for irrigation and non-potable water supply.

Soil suitability matters

Best suited to granular soils, sand and gravel. Clay, silts and soils with high organic content are generally not suitable for this installation method.

AT-A-GLANCE SYSTEM

8" SOCK TILE	600-1000 GPM OUTPUT
20' COLLECTION DEPTH / 25' as an option	12" STEEL RISER

PUMPS, CONTROLS & SUPPORT

SUBMERSIBLE PUMPS /
PUMP REPLACEMENT & PERFORMANCE TESTING /
VFD / CONTROLS /
STARTUP & COMMISSIONING

Final well performance depends on soil, groundwater level, tested yield and system demand.

FROM SITE EVALUATION THROUGH INSTALLATION, PUMP SELECTION, TESTING & COMMISSIONING



EVALUATED, INSTALLED AND STARTED AS ONE SYSTEM

Reliable water starts with the site, soil and required system demand.

Horizontal well project comes together

1 Evaluate the site

Confirm the preferred well-head location, terrain and soil conditions. Review power lines, loading and unloading areas, access routes and culvert crossings.

2 Test candidate locations

Use well-point tests to identify soil and groundwater conditions. Check water level and pump-test the points to verify adequate volume before final design.

3 Select the well and pump

Recommend well length, double- or triple-socked 8-inch tile, pump brand and size based on required GPM and PSI, and VFD or standard controls.

4 Install the horizontal collection well

Connect the socked tile to the bentonite-cloth-wrapped standpipe. The trencher enters vertically, advances horizontally and places the tile in one pass; the end is capped and sealed.

5 Test, start and commission

Verify flow, pressure and controls, complete startup and confirm the system is operating as designed. Ongoing service planning is discussed before turnover.

Why customers want horizontal wells

Consistent water flow: A long horizontal intake draws from a broad aquifer section and can support steady yield through peak demand.

Proper water pressure: Stable intake helps pumps maintain the pressure needed for sprinklers, drip systems and pressurized water supply.

Lower operating cost: Efficient intake and lower pump head means less horse power and energy is needed.

Longer equipment life: Consistent inflow can reduce cavitation and wear on pumps and motors.

Track-mounted trencher capabilities

- 12 ft track-to-track width; 30 ft front-to-back length
- 17-25 ft work platform and 12-14 ft clearance
- 750 hp and 275,000 lb-ft of torque
- Maximum trench depth of 20 ft

Access planning should account for overhead lines, transport and unloading space, ground conditions and any ditch or culvert crossings.

Scan to check us out online

diversifieddewatering.com



Information that helps plan a horizontal well correctly

USE & DEMAND

Crop or facility use, seasonal schedule, required GPM and operating PSI.

LOCATION

Preferred well head, horizontal well length, discharge or distribution connection and

SOIL

Granular soil, sand or gravel; identify clay, silt, organics and obstructions.

ACCESS

Terrain, trencher route, unloading area, overhead clearance, culverts and working

GROUNDWATER

Existing water level, tested yield and desired elevation above the installed sock tile.

PUMP & CONTROLS

Pump type and brand, VFD or standard controls, electrical service, testing and

Service planning note: For projects more than 3-4 hours from our office, we typically recommend coordinating startup and future service with a qualified local well-service company for faster long-term response. Diversified remains involved from initial consultation through project completion.

DIVERSIFIED DEWATERING

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HORIZONTAL WATER SUPPLY WELL PUMP & WATER SUPPLY SOLUTIONS

Site-specific evaluation, installation and startup



Reliable irrigation and water-supply solutions for Michigan, the Midwest and projects beyond.