ALPHA WATER & POWER
DESIGN BUILD DELIVER SUPPORT

Modular and Expandable Wastewater Treatment Plants

One Order. One Price. One Complete Solution.

Alpha Water & Power (AWP) delivers a complete wastewater treatment plant as a transportable, above-ground system. The plant is built in frac tanks around Moving Bed Biofilm Reactor (MBBR) technology and combines biological treatment, filtration, automated controls, and water reuse in one package. It starts at 150,000 gallons per day and expands to 250,000, without the concrete basins, permanent buildings, or complexity of conventional infrastructure.

Why Modular

- **No concrete basins or permanent buildings.** The plant sits above ground in transportable frac tanks.
- **Expandable capacity.** 150,000 GPD initial capacity, expandable to 250,000 GPD as flows grow.
- **Proven biological process.** MBBR treatment in a compact footprint, with automated operation.
- **One complete solution.** A full treatment plant under one order and one price.

Inside the Plant

Biological Treatment

Moving Bed Biofilm Reactor (MBBR) treatment housed in above-ground frac tanks, sized to the facility's flow and loading.

Filtration and Reuse

Filtration after biological treatment, with treated water available for reuse on site.

Automated Controls

Automated plant operation and monitoring, integrated with the treatment system as one package.

Applications

- **Municipalities.** Treatment capacity without a conventional plant build.
- **Growing communities.** A plant that starts at current flows and expands with demand.
- **Industrial facilities.** On-site wastewater treatment and water reuse.
- **Remote developments.** Workforce housing, private facilities, and sites beyond municipal service.

How We Deliver

Design and Permitting

Conceptual design and TCEQ permitting first, so equipment and construction follow an approved process.

Supply and Install

Equipment supply, site civil works, plumbing, electrical, controls, and final system integration under one scope.

Startup and Support

Commissioning and operator training, followed by annual service agreements and 24/7 troubleshooting support.

Commercial structure. AWP acts as equipment supplier, design-build contractor, or engineer of record support, at client election.

Experience

AWP delivers packaged wastewater plants for remote sites, workforce housing, and private facilities, and site-built plants for larger loads, with the wells, storage, pumping, and distribution that complete a water system. Full references are available on request.

- **Aries Lodge.** Packaged wastewater plant and 50,000 GPD RO potable plant for a West Texas workforce camp.





To discuss a modular wastewater plant for your site, call 800-283-5007 or visit awp.co.

Watch the plant overview: vimeo.com/1245110692 or scan the code.

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