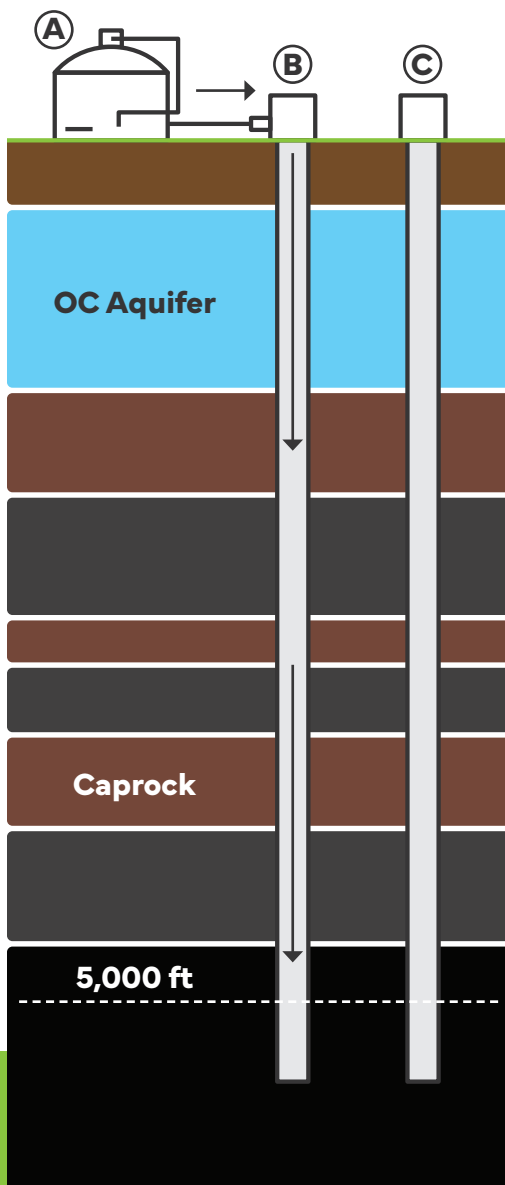


Biosolids Deep Well Injection

In an era where environmental concerns are at the forefront of global discussions, finding sustainable solutions for managing biosolids is more critical than ever. The proposed Deep Well Injection (DWI) project presents an innovative approach to managing biosolids, which are the solid organic matter recovered from the sewage treatment process. DWI provides a forever home for these carbon- and nutrient-rich residuals which also contain trace amounts of substances like PFAS (per- and polyfluoroalkyl substances), microplastics, and pharmaceuticals.

Biosolids from the anaerobic digesters (A) at OC San's Reclamation Plants will be injected (B) more than 5,000 ft underground, below several layers of caprock. A second well (C) monitors the permanently contained biosolids.



OC San is currently conducting a feasibility study to show that deep well injection of biosolids will:

- Inject biosolids, which are the solid organic matter recovered from the sewage treatment process, more than 5,000 feet down into a sandstone layer below several caprock layers.
- Create a natural digester that converts biosolids to methane and carbon dioxide.
- Create a local biosolids management option.
- Be segregated and safe from the aquifer that supplies drinking water.
- Return carbon deep underground, permanently reducing greenhouse gas emissions.
- Follow proven technology: The City of Los Angeles has been doing this exact process for 17 years at its Terminal Island Treatment Plant.
- Ensure that trace contaminants (PFAS/microplastic/pharmaceuticals) are safely sequestered deep underground, preventing their release into the environment and safeguarding public health for generations to come.
- Reduce/eliminate transport costs, long-haul truck traffic and associated air pollution.
- Reduce treatment costs and user fees.

Deep Well Injection: A Cleaner, Greener Solution for Our Community

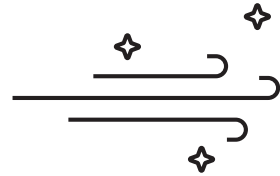
We're actively pursuing deep well injection for waste management—and it's great news for our environment and our neighborhoods. Here's what that could mean for you:

Reduced Truck Traffic



associated with transporting biosolids to farm land for use as a soil amendment

Improved Air Quality



Massive Carbon Emissions Reduction (if all biosolids are injected)

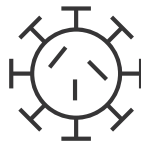
638.5

tons of CO₂/day

222,020

tons of CO₂/year

Reduced Release of PFAS (Forever Chemicals), Microplastics, and Pharmaceutical Residues



into the land, waterways and ocean - safeguarding public health

Benefits for the Entire Santa Ana River Watershed



Resource Innovation for a Sustainable Environment

An Orange County Sanitation District Program | ocsan.gov/RISE



Water



Solids



Energy



Air

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