

BETWEEN THE PIPES

Vallecitos is Using Trenchless Technology

Vallecitos finds innovative technologies to ensure pipelines are designed, built, and operated to be safe, reliable, and sustainable to achieve pipe integrity. This means ensuring a pipeline and all its related components are running properly. Pipe integrity can be lost due to a combination of many factors such as missing pieces, cracks, pinholes, offsets at joints, and root intrusion.

There are many methods, technologies and practices to ensure pipeline integrity. Recently, Vallecitos' Engineering Department utilized a Cured-In-Place-Pipe (CIPP) Liner and Spiral Wound Liner to maintain District pipes.

The CIPP Liners are epoxy saturated felt tubes which are inserted into the existing pipe, then cured and hardened by steam. There are no joints or seams. Spiral Wound Liners use an above ground winding machine to feed interlocking PVC profile into an old pipe. Both methods result in a new "pipe within a pipe."

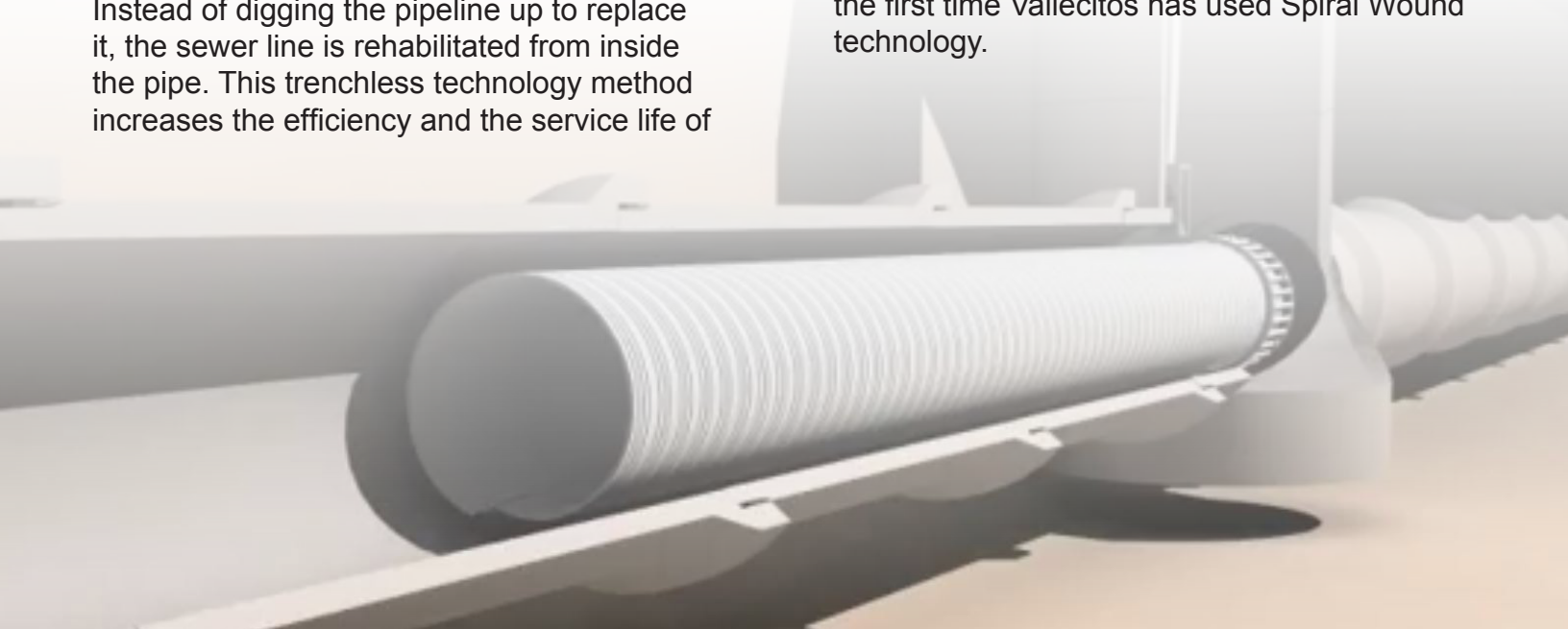
Instead of digging the pipeline up to replace it, the sewer line is rehabilitated from inside the pipe. This trenchless technology method increases the efficiency and the service life of

the pipe without having to replace it; eliminating paving, reducing traffic interruptions, as well as saving the District, and in turn the rate payers, money.

This technology is very effective in hard to reach areas, such as easements. In addition, for projects in the streets, the trenchless method reduces disruptions and impacts to businesses and neighborhoods.

As a result of using this technology, the District recently rehabilitated 1,595 feet of sewer pipe and is scheduled to rehabilitate another 2,300 feet next year. Sections of critical infrastructure were rehabilitated at an affordable price due to the CIPP and Spiral Wound Liner options.

Overall, the project was a success. No sewer laterals were cut and work was done without a sewer bypass. Further, the project was \$37,000 under budget. The lining part of the operation took less than three hours. This is the first time Vallecitos has used Spiral Wound technology.



Environmental Laboratory Accreditation Program Certification for Vallecitos' Water and Wastewater Labs

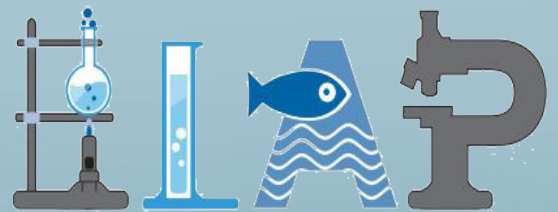
The Vallecitos Water District's Water Laboratory is now accredited with the State Water Board's Division of Drinking Water. This allows the District to operate its own water laboratory which will save the District thousands of dollars each year.

Results will be processed faster, because the samples won't need to be transported to a different location and wait in queue until they are processed.

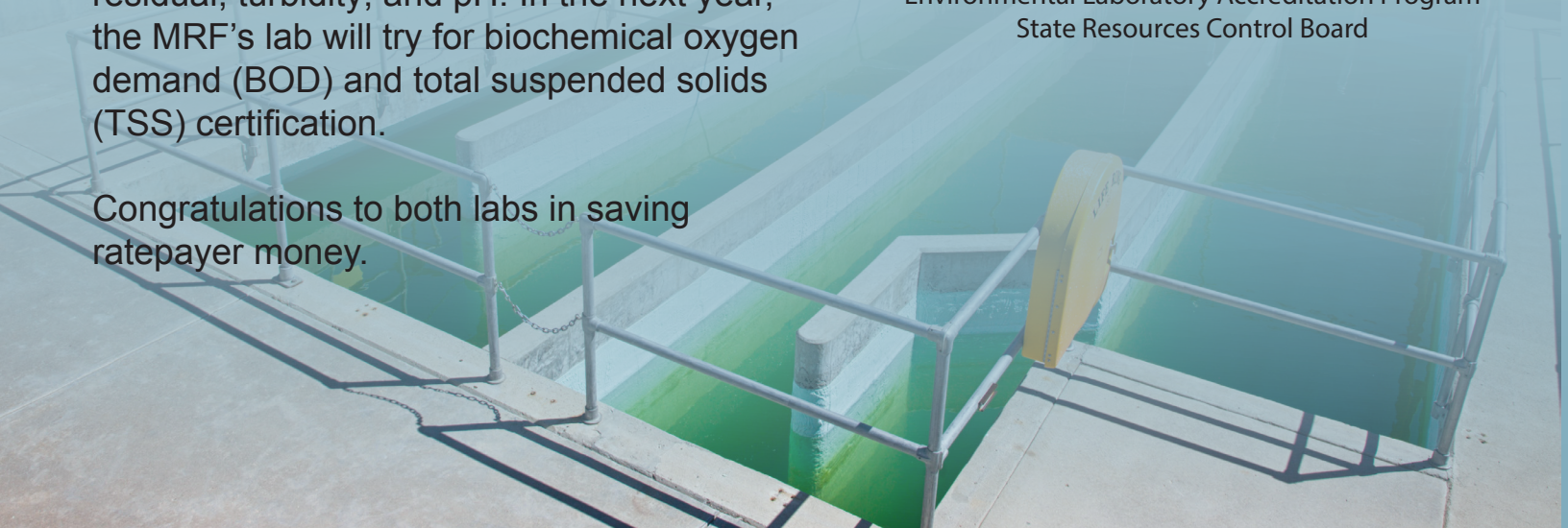


The Meadowlark Reclamation Facility (MRF) Lab also received Environmental Laboratory Accreditation Program (ELAP) Certification. The MRF lab is certified in: coliform (using a membrane filtration procedure); chlorine residual; turbidity; and pH. In the next year, the MRF's lab will try for biochemical oxygen demand (BOD) and total suspended solids (TSS) certification.

Congratulations to both labs in saving ratepayer money.



Environmental Laboratory Accreditation Program
State Resources Control Board



Vallecitos to Host WaterSmart Landscape Classes

Vallecitos will be hosting an upcoming WaterSmart Landscape Makeover Series at the District's offices located at 201 Vallecitos de Oro in San Marcos. This is an educational program that will empower residents to upgrade their high-water-use turf area into a WaterSmart landscape.

This is done through four classes with lectures, hands-on lab work, demonstrations, homework assignments and one-on-one coaching by local landscape and irrigation professionals, all at no cost to residents. For program parameters and to apply, please visit: <https://landscapemakeover.watersmartsd.org/>.

Applications are currently being accepted for the Spring session that begins on Monday, April 29, 2019. The class schedule is as follows:

Monday, April 29 from 5:30 p.m. until 8:30 p.m.

Monday, May 6 from 5:30 p.m. until 8:30 p.m.

Monday, May 13 from 5:30 p.m. until 8:30 p.m.

Monday, May 20 from 5:30 p.m. until 8:30 p.m.

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San Diego County Water Authority

WaterSmart Landscape Makeover Program

FOUR-CLASS SERIES 3-HOUR DESIGN WORKSHOP VIDEOS ON DEMAND EVENTS AND RESOURCES

Spend Less on Water and More on Life

The WaterSmart Landscape Makeover Program classes and events offer a great opportunity to create a garden that loves San Diego as much as you do.



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www.vwd.org

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Between the Pipes is a publication of information and interest to Vallecitos water and sewer customers. If you receive water or sewer services from another district, please disregard any information that does not apply to you.

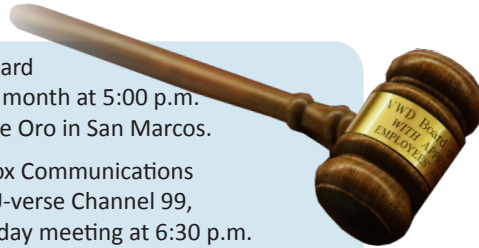
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The public is welcome to attend the Vallecitos Board Meetings the first and third Wednesday of each month at 5:00 p.m. in the Administration building—201 Vallecitos de Oro in San Marcos.

Meetings are also aired on San Marcos TV on Cox Communications Channel 19, Time Warner Channel 24 or AT&T U-verse Channel 99, which air on the Monday following the Wednesday meeting at 6:30 p.m. Visit www.san-marcos.net/smtv for programming schedule.



“Like us” on Facebook or follow us on Twitter @vallecitoswater

Vallecitos Open House Tour set for Saturday, June 22, 2019, from 8:30 a.m. to 12:30 p.m.

Our water and wastewater specialists offer customers a first-hand look at what it takes to operate the District and provide reliable, exceptional and sustainable water and wastewater services to the more than 100,000 residents in our service area.

Open House is scheduled for June 22, 2019, from 8:30 a.m. to 12:30 p.m. and begins at the District’s Administrative Offices located at 201 Vallecitos de Oro, in San Marcos. Lunch will be provided. Register online at www.vwd.org/openhouse or contact Alicia Yerman at (760) 752-7123.

