Cucamonga Valley Water District

⦿ Rancho Cucamonga, California

▶ **ICONICS**

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Cucamonga Valley
Water District ®

Service Beyond Expectation
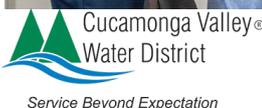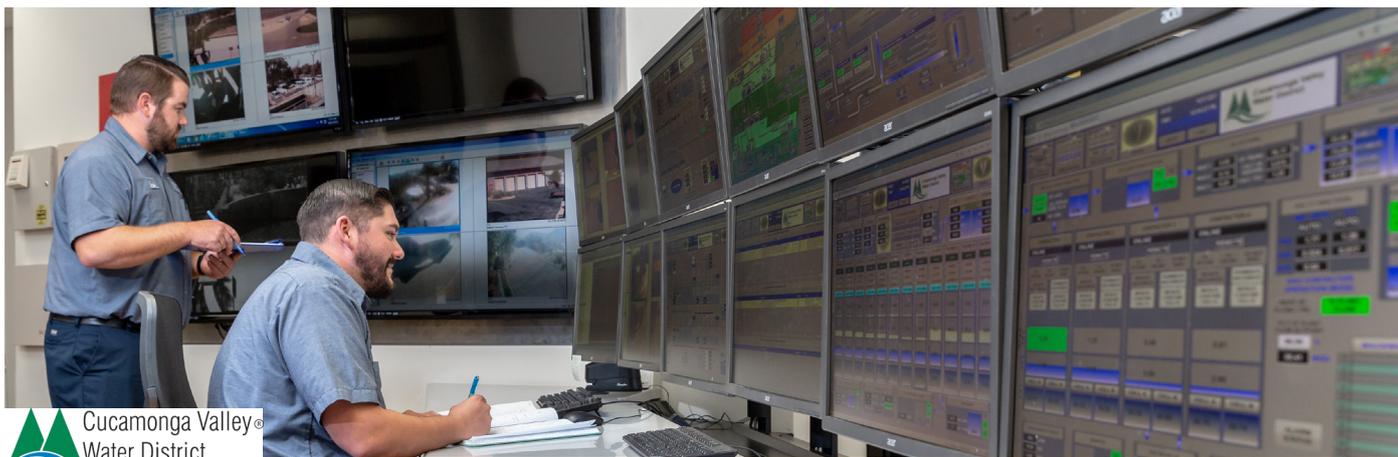
About the Cucamonga Valley Water District

Headquartered in Rancho Cucamonga, California and in accordance with its mission, the Cucamonga Valley Water District (CVWD) strives "to provide high quality, safe and reliable water and wastewater services, while practicing good stewardship of natural and financial resources." The facility services a 47-square-mile area with approximately 200,000 people. This area includes Rancho Cucamonga, some areas of San Bernardino County and portions of Upland, Fontana, and Ontario. CVWD functions as a Special District, an independent unit of local government that serves the needs of its community. CVWD has approximately 48,000 water connections, 37,000 sewer connections, and an average daily demand of approximately 47 million gallons. They are one of the leading water suppliers in the region thanks to their innovative water treatment technologies and leadership in addressing state and regional water issues.

Project Summary - How CVWD Continually Strives for *Service Beyond Expectation*

In 2008, the Cucamonga Valley Water District embarked on a control system project intended to simultaneously retrofit an existing treatment facility and increase the functionality of its existing controls. The organization identified features in an HMI/SCADA solution that would easily integrate with existing infrastructure. Working with engineering partner, Black & Veatch, CVWD sought a solution that was not processor-intensive, could deliver a mobile component for employees, and provide comprehensive reporting abilities. After extensive evaluation of multiple platforms, CVWD selected the ICONICS automation software suite as a comprehensive package. The package offered graphics, trends, alarming, and notifications in a single software suite. Along with the comprehensive package, ICONICS also offered an unlimited tag count with a fully operational trial system capable of being developed as a pilot.
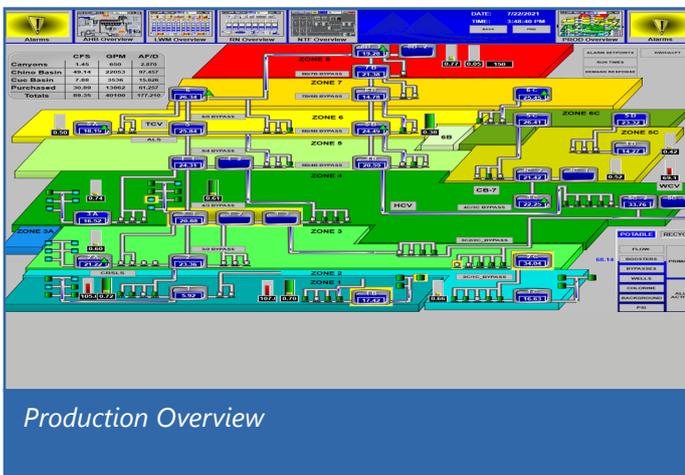
Production Overview
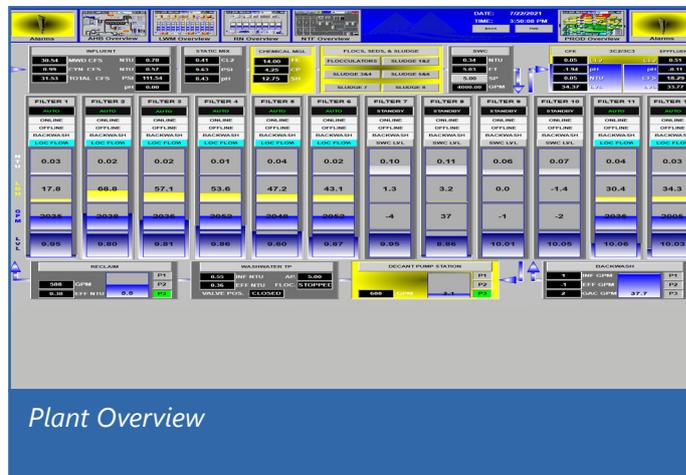
Plant Overview

Initially, the GENESIS32™ Enterprise HMI/SCADA suite was deployed including:

- AlarmWorX™ Multimedia
- ReportWorX™
- ToolWorX™
- TrendWorX™
- WebHMI™

ICONICS Solutions Deployed

As the CVWD continued to leverage its system's capabilities to better serve its customers, it looked to ICONICS ever-evolving solutions to achieve new goals. With GENESIS64 on the horizon, both the CVWD and ICONICS teams used collaborative methods to develop the scope and approach to upgrade and cutover to the new system. The following solutions were identified and utilized in the upgrade:

- GENESIS64™ HMI/SCADA Suite
- AlarmWorX™64 mmx
- ReportWorX™64
- WebHMI™

Realized Benefits from ICONICS Software Upgrade

Again, ICONICS was able to meet Cucamonga Valley Water District's needs for its industrial automation application. New features and tools have provided the opportunity for the CVWD to improve system performance in the areas of Supply, Quality, and Efficiency.

GENESIS64 has provided the tools to guarantee safe and secure control related to water supply with seamless integration of new technology regardless of communication protocols. Water quality is of the highest priority as related to public health and is secured with intuitive visualization, effective alarming, and the ability to analyze historical data. Efficient operation provides the ability to optimize system operations and provide *Service Beyond Expectation*. The GENESIS64 product suite has allowed CVWD staff to develop a system that is highly scalable with seamless integration of new process applications.

Conclusion

The Cucamonga Valley Water District initially selected ICONICS due to its advanced HMI/SCADA solutions, feature-rich applications, and ability to pilot a fully functional system. The District recently completed a system upgrade with the support and ease expected of ICONICS. Future plans include continuous development focusing in the area of operational efficiency. With ICONICS as a partner, the Cucamonga Valley Water District can most certainly continue to provide *Service Beyond Expectation*.

Solutions Highlighted

WebHMI - Brings the capabilities of GENESIS64 applications to any HTML5 or WPF compliant web browser

AlarmWorX Multimedia - OPC Alarm Management Software

ReportWorX - Enterprise Reporting, Charting and Analysis Software

CVWD Operations Strategy

“The GENESIS64 product suite has allowed us to develop a system that our operators have confidence in. It is highly scalable and provides seamless integration of new applications into our existing control system. ”

Randy Stewart
Automation and Controls Supervisor
Cucamonga Valley Water District