

CASE STUDY

SCADA Reporting Automation · Municipal Water & Wastewater

GENESIS SCADA · ReportWorX

Process Control Dynamics · pcdsales.com

Two Days of Compliance Reporting.

Reduced to Less Than Two Hours.



2 Days

→ < 2 Hours

Monthly compliance report cycle reduced by more than 90%

3 Systems

→ 1 Source

All required data pulled directly from GENESIS in one operation

Zero

Manual Reformatting

State-format templates built once into ReportWorX — applied every run

THE CHALLENGE

A municipal water district was spending two full working days every month compiling regulatory compliance reports for state environmental agencies. The required data lived across three separate systems: the legacy SCADA historian, a standalone water quality database, and a spreadsheet-based flow log maintained manually by operations staff.

Each cycle meant extracting from all three, reformatting each dataset to match the state's templates, and cross-checking every value against source records before the report could be signed and submitted — a process that was error-prone and dependent on two staff members. When either was unavailable, reporting slipped.

THE SOLUTION

PCD introduced GENESIS SCADA with ReportWorX as the district's unified compliance reporting engine. All three source systems were connected to GENESIS — the legacy historian via OPC, the water quality database via SQL connector, and manual flow records migrated to real-time tags updated through a simple web form. ReportWorX templates were built once to exactly match the state's required submission formats, pulling data points directly from the AssetWorX tag structure, applying cross-check calculations automatically, and flagging any out-of-range values before the report is generated. Reports are now generated on demand or on schedule with a single execution — no data extraction, no reformatting, no manual cross-checking.



PROCESS CONTROL DYNAMICS

THE RESULTS

- Monthly compliance reporting time reduced from two full days to less than two hours
Three separate data sources consolidated into a single GENESIS-connected reporting layer
State-format report templates built once — applied automatically on every run with no reformatting
Automated cross-checks flag out-of-range values before the report is generated — no manual review of raw data required
Reporting no longer dependent on two staff members — any authorized user can execute and submit
Audit trail maintained automatically in Hyper Historian — every data point in every report is traceable to its source

WHY IT MATTERS

For water and wastewater utilities under TCEQ oversight, compliance reporting is not optional and not forgiving of errors. ReportWorX turns a high-effort, high-risk manual process into a repeatable, auditable workflow that any qualified operator can execute — and that produces documentation the agency can trust.

BEFORE — Manual Process

- 1 Export data from legacy SCADA historian
2 Export water quality records from separate database
3 Compile manual flow log from staff spreadsheet
4 Reformat each dataset to match state template
5 Cross-check all values against source records
6 Re-enter corrected values, rebuild totals
7 Final review, print, sign, and submit

AFTER — With ReportWorX

- 1 ReportWorX pulls all required data automatically from GENESIS
2 State-format template applied — no reformatting
3 Built-in cross-checks run and flag any exceptions
4 Staff reviews flagged items only — typically none
5 Report submitted — audit trail auto-archived

7 steps → 5 steps. 2 days → < 2 hours.

Is your compliance reporting still a manual process?

PCD implements GENESIS SCADA with ReportWorX for water and wastewater utilities across Texas and the Rocky Mountain region. Connect your existing data sources and run state-required reports from day one.

ReportWorX · Key Capabilities

- OPC, SQL, web services & database connectivity
State-format templates built once, reused every run
Automated cross-checks and exception flagging
Scheduled or on-demand generation
Full audit trail via Hyper Historian
PDF, Excel, and print-ready output