

LIQUA-Level

Water Level Monitoring System for Stormwater Infrastructure



LIQUA-Level is a robust water-level measurement system for stormwater infrastructure.

Coupling LIQUA-Level with P4's Rain-mX and Flow-RTC system creates a stormwater infrastructure monitoring and performance documentation system.

Battery health and solar re-charging cycles are documented and displayed.

Wireless data transmission.



- Applications & Value
- Surface Systems
- Below-Ground Systems
- Dry (Infiltration) Wells
- Data-driven Maintenance
- Performance Documentation

Data Sampling & Resolution

10-min. (std)

0.25" resolution



Nationwide cellular connectivity (WiFi option – contact P4)



Water level measurements for:

- StormTrap™ Systems
- ADST™ Systems
- AquaBlock™ and R-Tank™ Systems
- Surface Systems
- Dry (Infiltration) Wells
- Any location with vertical space



Browser-based dashboard (viewing and data download). Advanced notice of potential problems. Data visualization. Data-driven maintenance notification.



Water-level monitoring system to complement other sensor systems (curated data stream).

LIQUA-Level – Specifications

Communication

- Cat-M1 cellular (4G LTE, 5G)
- Wi-Fi option available (contact P4)

Installation & Measurement

- During or post-construction installation
- Easy removal and replacement of sensor
- 6" to 120" range (0.25" resolution)

Power

- Voltage – 12V DC
- Battery – 5,000 mAh NiMH pack (modular)
- No external power required (120V power option)
- Remote battery health monitoring
- Solar re-charging with remote monitoring

Maintenance (owner performed)

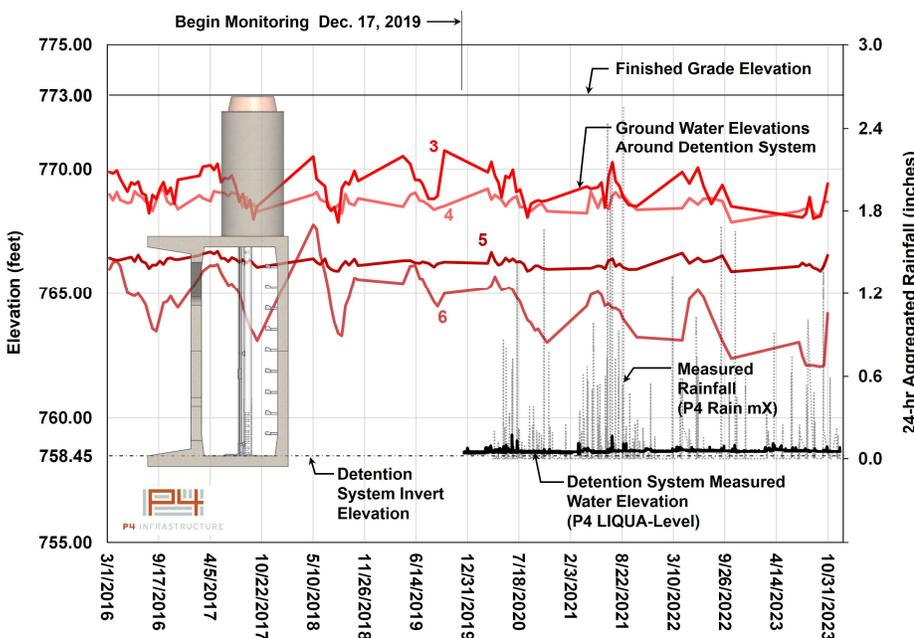
- Modular system (sensors, computer, battery)
- Remote battery health monitoring
- Solar panel cleaning (every 6 months – location dependent)
- Float (sensor) inspection – data driven

Operating Temperatures & Compliance

- Fahrenheit: -30 °F to 120 °F
- Celsius: -34 °C to 49 °C
- FCC

User Interface & Data

- Browser-based access & display
- CSV downloading
- Mobile via iOS and Android
- 90%+ data reliability



How do you know stormwater has not leaked into your groundwater system?

How do you know your underground detention system has been operating properly over the past four years?

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