



BROADWATER

SYSTEMS GROUP

Architecting Operational Advantage.

WATER & WASTEWATER MONITORING

Built for Rural Systems. Engineered for Compliance.

Rural water and wastewater operators are stretched thin. Few staff. Distributed assets. Aging infrastructure. Strict regulatory requirements. And SCADA quotes that come in at fifty thousand dollars before anyone has touched a wrench. BSG offers a different path: industrial-grade remote monitoring for rural systems, transparent pricing, local accountability.

The Problem We Solve

Water and wastewater operators in rural Montana face the same operational pattern, week after week:

- Driving an hour to a remote pump station to confirm what you already suspected — that the pump kicked off three days ago.
- Finding out about a tank running low when a customer calls, not when your monitoring system notices.
- Lift station overflow events that turn into EPA reportable incidents because no one was alerted in time.
- Compiling compliance reports by hand from paper logs, hoping nothing was missed.
- Paying \$30,000 to \$50,000 for a traditional SCADA system that requires its own IT department to maintain.

The big SCADA vendors built their products for treatment plants in cities. Rural systems have always made do with whatever was left over.

What BSG Deploys

A typical rural water system deployment includes:

- Tank level sensors with configurable high/low alerts. Tells you when storage is dropping, when pumps need to start, when something is overflowing.
- Lift station monitoring — pump run/stop status, wet well levels, equipment fault detection. Catch problems before they become EPA reportable events.
- Pressure monitoring at distribution points. Identify pressure drops that indicate leaks, line breaks, or valve issues.
- Flow monitoring with cumulative totals for compliance reporting and leak detection.
- Equipment runtime tracking for pumps, blowers, and other powered assets — feeds maintenance scheduling and predictive failure detection.
- RS485/Modbus bridge support for existing PLCs. We don't make you replace what's already working.

All sensors run on BSG's private LoRaWAN network — no cellular dependency, no business wifi exposure, no consumer-grade hardware.

What It Tells You

Real-time visibility, configurable alerts, and the audit trail your regulators are going to ask for.

- Live dashboard accessible from any device — phone, tablet, desktop.
- Configurable setpoints with chain-of-command alert routing. SMS to the on-call operator, escalation to backup if not acknowledged within your defined window.
- Historical reporting for compliance reviews. Every reading, every alert, every operator acknowledgment timestamped and exportable.
- Anomaly detection across sensors over time. The system learns what "normal" looks like for your operation and tells you when something drifts.
- Map-based site visualization. Every well, lift station, and tank in your district pinned to its real-world location with status at a glance.

Investment Range

BSG pricing is transparent. No dealer markups. No "contact sales" gates. Real numbers you can budget against.

Deployment Size	Typical Install	Monthly Service
Single site (1 well, lift station, or tank)	\$2,500 – \$4,500	\$79 – \$149
Multi-site system (2–5 sites, 4–10 sensors)	\$5,500 – \$10,000	\$149 – \$399
Distributed system (6+ sites, lift stations, tanks)	\$12,000 – \$25,000+	Custom quote

Installation includes hardware, gateway, commissioning, operator training, and travel within 50 miles of Townsend. Larger systems and complex integrations quoted custom after a no-pressure site visit. Monthly service includes platform access, alert delivery (SMS, email, in-app), audit reporting, and ongoing system support.

What You Keep

- Drive time saved. Operators stop making confirmation runs to remote sites — they go when something actually needs attention.
- Compliance cushion. The audit trail is automatic. Compiling regulatory reports goes from days to minutes.
- Earlier intervention. Lift station overflows, frozen lines, pump failures — all caught earlier, before they escalate to reportable events or service interruptions.
- Operator peace of mind. The on-call operator knows the system is watching, even at 2 AM. When the alert comes, it's specific and actionable.
- Documented operational history. Insurance reviews, rate cases, board meetings — you walk in with data.

Schedule a Site Walk-through

BSG site visits are no-pressure. We come out, walk your assets, listen to where the operational pain is, and tell you honestly whether monitoring would help — and what it would cost. We don't pitch what you don't need.

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