

Source Water Monitoring



Be Right™



- **Monitor Source Water for**
 - Potable water treatment
 - Industrial processes
 - Food and Beverage
 - Municipal or industrial wastewater discharge



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Detect Changes in Water Quality



- Dissolved organic matter
- Intrusion of another source
 - Spring
 - Municipal or industrial waste
 - Acid mine drainage
 - Produced water from oil and gas drilling operations
 - Algal blooms
 - Reservoir stratification
- Storm events
- Malicious contamination of the source water



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Select The Sensors You Need



- Select up to 6 sensors to connect to the versatile SC1000 Controller
 - Solitax - Suspended solids/turbidity
 - LDO - Dissolved Oxygen
 - Ammonia
 - UVAS - UV Organic*
 - Nitratax – Nitrate*
 - pH
 - Conductivity
 - ORP

*Mounted separately with Bypass Panel



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Rationale for parameter selection

Organics UVAS sc probe, 5mm: Useful for season changes and accidental spills of organic nature

Ammonium NH₄D: May indicate presence of pesticides or other biological degradation of organic matter

pH sensor, Ryton: Acid/base relationships within water

Conductivity, Inductive :May indicate presence of ionic species; measures the total ionic concentration in water

ORP Sensor: May indicate sudden changes for oxidative or reducing species introduced into the water

Turbidity, High Range, SOLITAX™ t-line: May indicate some chemical compounds or increased

bacterial levels (can measure suspended solids as well if proper Prod. No. ordered)

Dissolved Oxygen, LDO: Sudden change may indicate toxic conditions that effect algal respiration or increased levels of bacteria using up the oxygen

Level: Useful with SWP trough

Nitrate NITRATAX™ plus sc 5 mm: Nutrient level within water; agricultural runoff



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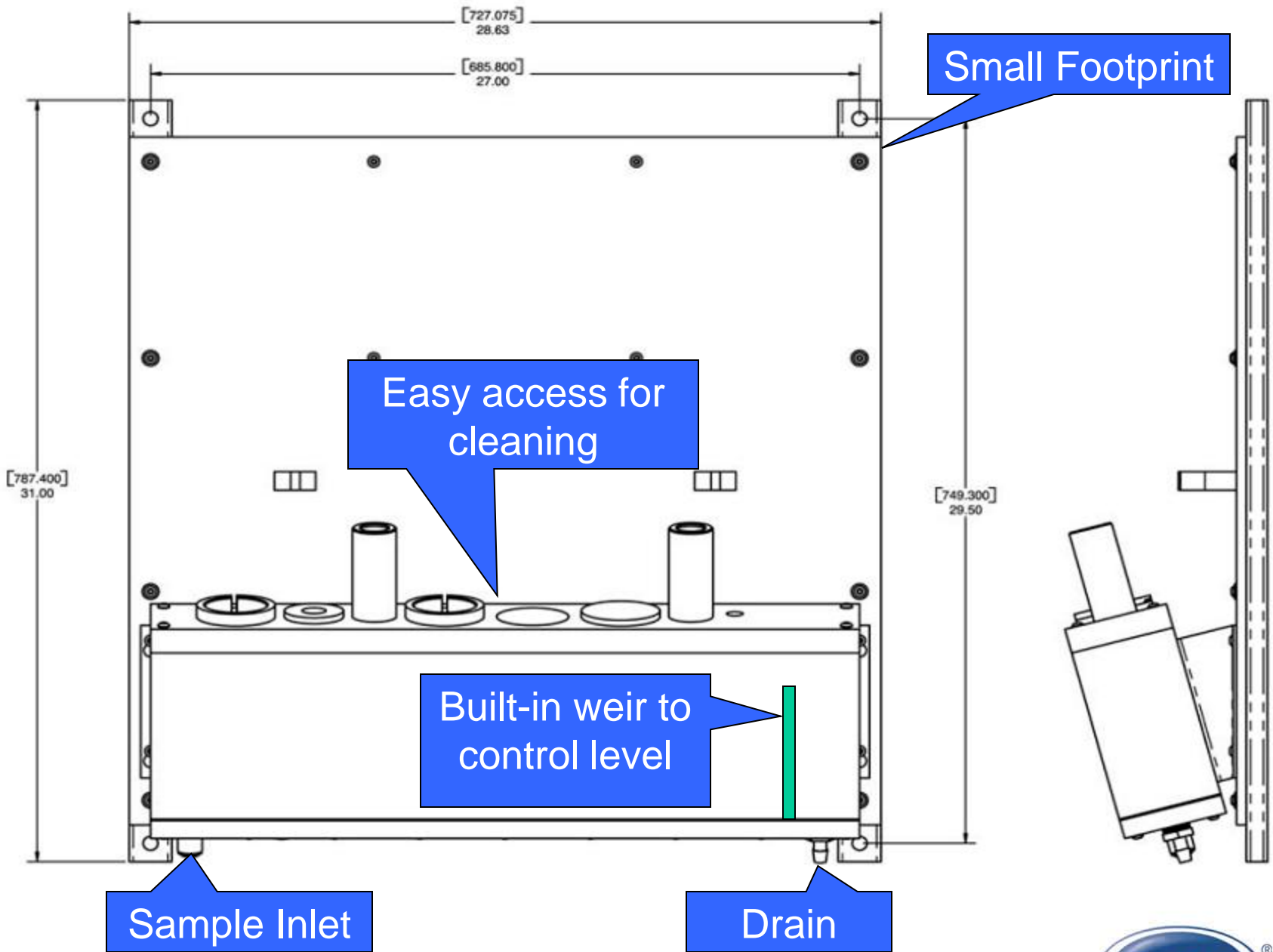
Incident and Source of Contamination

- Contaminated river shut water supply down for 4 days; schools shut down . Chemical blast
- Strychnine found in Reservoir, shut down reservoir. Unknown
- 7500 gallons of diesel spilled in river. Tanker truck crashed
- 15000 liters of diesel in river, direct source of valleys' entire drinking water. Tanker truck crashed diesel oil in River
- 13000 liters of diesel into river shutting down drinking water plant. Auto workshop
- Alum overflow from DWP—Alum delivery guys overfilled Alum tank and excess went into river drinking water plant
- Terrorist contaminant intentionally injected into river, shutting down DWP. Terrorists

Simple Installation



- Plastic back plane
- Fiberglass struts
- PVC sample trough
- Single inlet, outlet
- Single power source
- Easy maintenance
- Level sensor to assure a sample is present



- Easy to install adapters speed installation of sensors



- Plug sensor positions when not in use



- Interprets data to determine baseline
- Provides information on common events establishing a ‘fingerprint’ of the event.
- Provides signal that alarms when significant system deviations occur
- Wall mount, IP-62 enclosure
- 24”x20”x8” dimensions
 - 15” color touch-screen interface/CPU
 - Communication and wiring hardware

Add an Event Monitor



Complement the System with Other Instruments...

- TOC
- Auto Sampler



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And Portable Kits



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