

## Model P

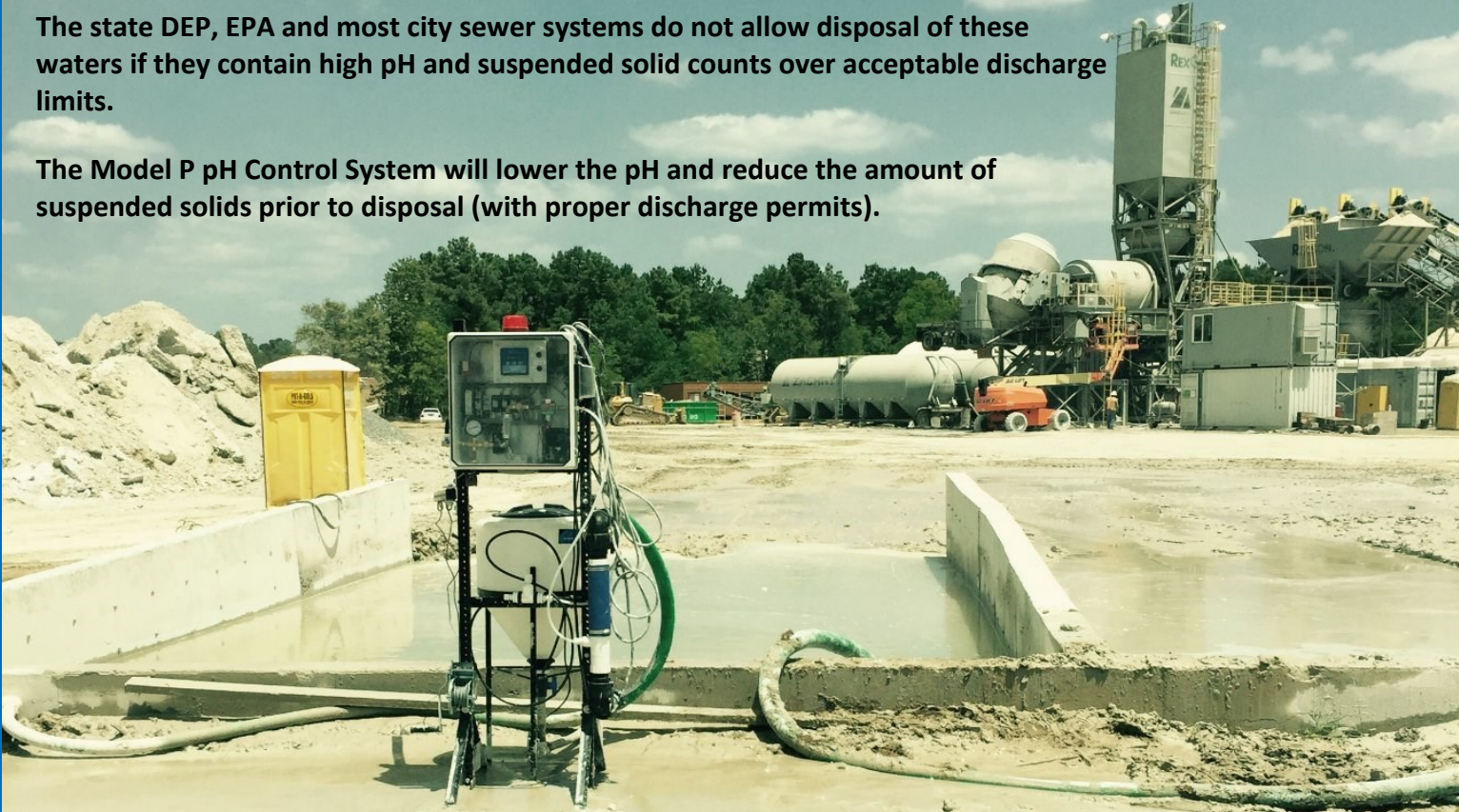
# pH Control System from ATSI

Ready mix and precast facilities produce hundreds or even thousands of gallons of washout wastewater per day based on the size of their operation and plant. This water is usually collected in single or multiple pit systems.

In addition, plants can generate significant volumes of stormwater on their property.

The state DEP, EPA and most city sewer systems do not allow disposal of these waters if they contain high pH and suspended solid counts over acceptable discharge limits.

The Model P pH Control System will lower the pH and reduce the amount of suspended solids prior to disposal (with proper discharge permits).



CO<sub>2</sub> gas is available virtually everywhere, through your local gas or welding supplier. It is considerably safer and less expensive than sulfuric and hydrochloric acid.

The system requires 120 VAC and a CO<sub>2</sub> cylinder to operate. The system is designed to treat washout pits up to 25,000 gallon in volume. A "double system" can treat larger pond sizes.

The treated water can be used for making new concrete, dust suppression in your yard, cooling your sand and rock piles, or disposed into the sewer or environment (where permitted, consult local regulatory authorities in your area).

**TOTAL SYSTEM SOLUTIONS**

Another Innovative Product from BFK  
They Simply Work!

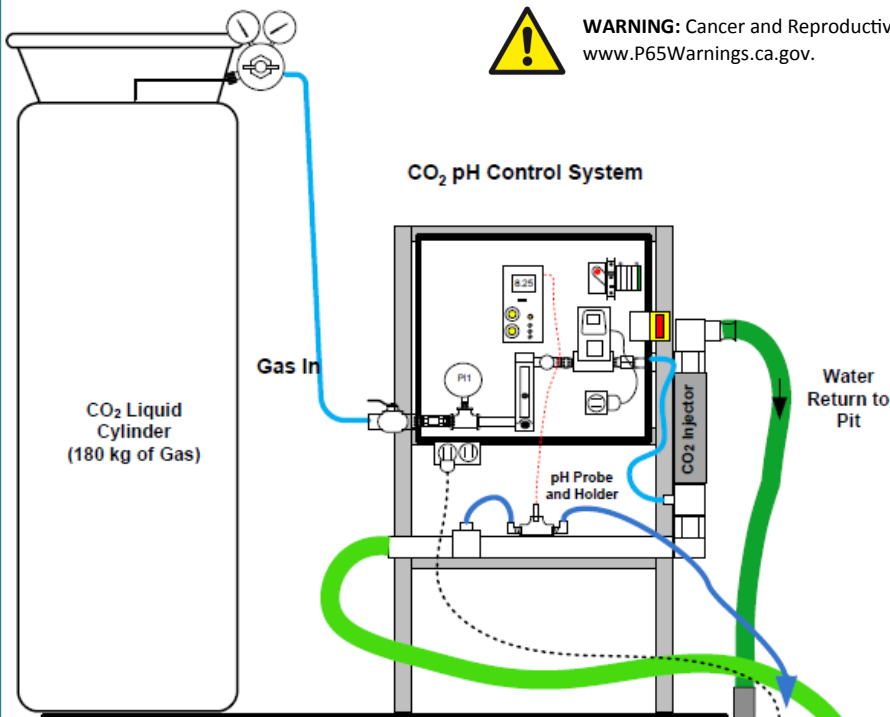
**BFK TECHNOLOGIES INC.**  
CONCRETE RECLAMATION SYSTEMS





**WARNING: Cancer and Reproductive Harm—**  
www.P65Warnings.ca.gov.

### CO<sub>2</sub> pH Control System



CO<sub>2</sub> Injector

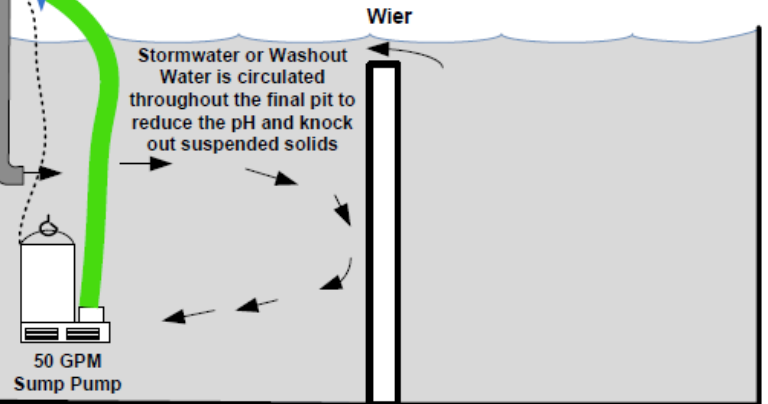
pH Probe

#### The system includes the following components:

- pH Control System and pH probe
- ½ hp Sump Pump (1 hp Optional)
- CO<sub>2</sub> Injector and Water Pipe Network
- Sump Pump Stand
- Hose and Hose Connections
- Injector Cleaning Tank

Single System shown, dual system also available.

2" PVC Dogleg



#### Model P1 Single System Base CO<sub>2</sub> System

Typical uses/sized for:

- Precast plants
- Small to medium Ready Mix plants
- Stormwater treatment
- Plants with a reclaimer installed, but only adjusting pH of a portion of the washout pit water for either reuse or discharge (where permitted)

#### Model P2 Dual System High Gas Flow CO<sub>2</sub> System

Dual system typical uses:

- Washout pits fed by Concrete Reclaimer
- Large Ready Mix plants
- Processes requiring 2nd pH probe for separate pH discharge monitoring (with 2nd pump control options)

For over 25 years, ATSI continues to be the leader in pH Control Systems, having engineered and manufactured Carbon Dioxide and/or Flocculent Based pH Control Systems for all types of processes including ready mix, precast, jobsite construction washout, and wastewater and stormwater treatment.

The ATSI CO<sub>2</sub> system is ideal for treating these polluted waters so they can be reused, or disposed of (where permitted).

Our system utilizes carbon dioxide gas injected into the water to make carbonic acid to reduce the pH, and convert the calcium and magnesium hydroxides into carbonates. These carbonates are heavier and fall out of suspension quickly creating clear pH adjusted water.

The Single system consists of a CO<sub>2</sub> pH Control panel, pH probe, water circulation system piping network, sump pump, hose and CO<sub>2</sub> injector. The dual system adds an additional stream with a 2<sup>nd</sup> CO<sub>2</sub> injector, to more quickly lower the pH level.

When activated, the sump pump circulates water out of the pond and through the CO<sub>2</sub> injector(s), returning the water back into the pond. Water with a pH level higher than the field-adjustable set-point will activate CO<sub>2</sub> gas injection into the water as it circulates. When the pH drops below the set-point, the CO<sub>2</sub> gas stops flowing but the system continues to circulate the water back into the pond to equilibrate and monitor the pH, maintaining the proper pH level.

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A factory-authorized Distributor of ATSI CO<sub>2</sub> pH Control Systems

