### National Resources. Local Expertise.



## **WATERSIM**<sup>™</sup>

# **Combining Forces to Provide Superior Water & Process Solutions**









Apollo, Aqua Treat, Guardian CSC, and Weas Engineering, now unified as Apex, redefine industrial water and process solutions. We blend high-level expertise with a local, tailored approach to customer service. Beyond just being a provider, we forge true partnerships, ensuring the performance and reliability of your water systems. With Apex, expect more than solutions—expect a commitment to problem-solving and value at every turn.

#### **Our Unified Strengths Expand Possibilities:**

ENGINEERED EQUIPMENT & SOLUTIONS — DATA INSIGHT & REPORTING — FLEXIBLE APPROACH

PROCESS CUSTOMIZATION — SUSTAINABLE PRACTICES — COMPLIANCE PRECISION



### The Apex Advantage

#### **Integrated Offerings**

Our approach to water treatment and process is all-encompassing. We deliver a spectrum of services, from comprehensive engineered equipment to innovative chemical solutions, ensuring your unique needs are met with precision.

#### **Team-Driven Excellence**

Working with your water provider should be personal and easy.
Our team's dedication is the key to your operational success, providing industry insights, extensive training, and meticulous water system management for your complete satisfaction.

#### **Problem-Solving Agility**

We recognize the uniqueness of your challenges. Our ability to swiftly adapt enables us to offer solutions that are specifically customized for you. With our flexible strategy, we efficiently solve problems and deliver effective solutions.



### Water is more complex than most realize.

Flows, pressures, temperatures and chemistries all play significant roles in system sizing, operational costs and long-term operability. All too often, the effort to model an entire production facility's water system never takes place. Or, if it does, it's simplified down to just a water balance with flow rates. Failing to take everything into account ends up putting projects and owners at risk of not having a system that will work effectively.

Apex has addressed the historical deficiencies in water modeling by developing WaterSim—the industry's most advanced water simulation software.

#### WaterSim is unmatched in its ability to provide answers to the following:

- How big do the systems need to be?

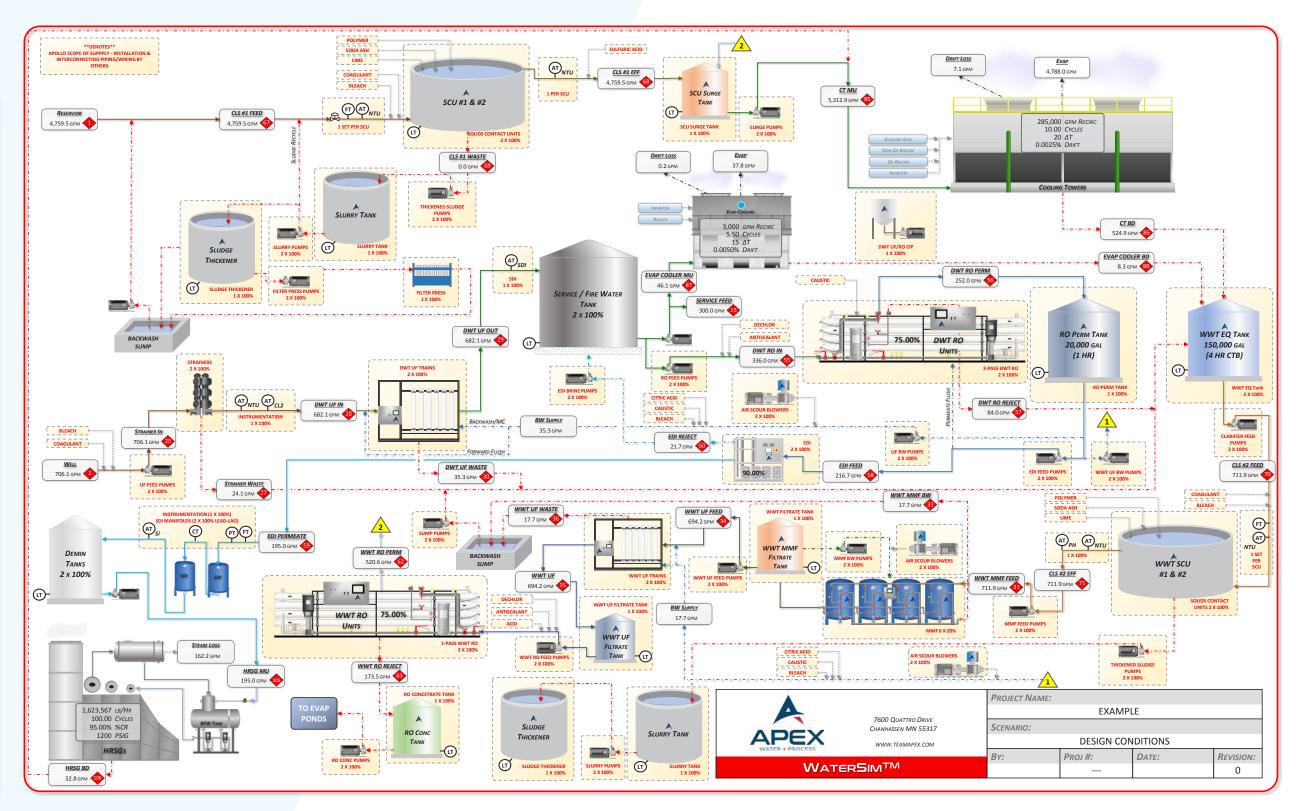
  Don't over/under size equipment.
- Will the systems be able to operate?
   Predict the chemistries to prevent scale, corrosion and fouling.
- Will we be able to discharge the water? Provide visibility to AHJ on estimated flows and compositions.
- How much will it cost?
  Estimate CapEx and OpEx for variety of "What-if" scenarios.
- How do we improve? Identify how to save water, energy, manpower and chemical usages.

# **WATERSIM**<sup>™</sup>

### WATER SIMULATION PROGRAM

# FLOW & QUALITIES THROUGHOUT PROCESS

4759.5  Reservoir om 932  606  8.31  55.0
Reservoir 932 606 8.31
606 8.31
8.31
8.31
55.0
33.0
12.8
4.60
ICO <sub>3</sub>
1CO <sub>3</sub> 250
Br
CL 234.0
F 2.00
10 <sub>3</sub> 3.1
102
PO <sub>4</sub> 3.2
5O <sub>4</sub> 46.8
iO <sub>2</sub>
1CO <sub>3</sub> 200.0
1CO <sub>3</sub> 75.0
Al 0.100
As 0.002
Ba 0.059
Be 0.003
B 0.255
Cd 0.003
Cr 0.000
Co 0.024
Cu 0.013
Fe 0.147
Pb 0.001
Vln 0.024
Hg 0.002
Mo
Ni 0.004
K
Se
Na
Sr
TI 0.001
Sn
Ti
V
Zn 0.038



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