



AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

AquaSBR®

Sequencing Batch Reactor

AquaSBR® System Phases



AQUA-AEROBIC SYSTEMS, INC.
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1 Mix-Fill (MF)

Influent Flow



2 React Fill (RF)

Influent Flow



5 Decant / Sludge Waste / Idle (D)



Effluent

FIVE PHASES
OF OPERATION

3 React (R)



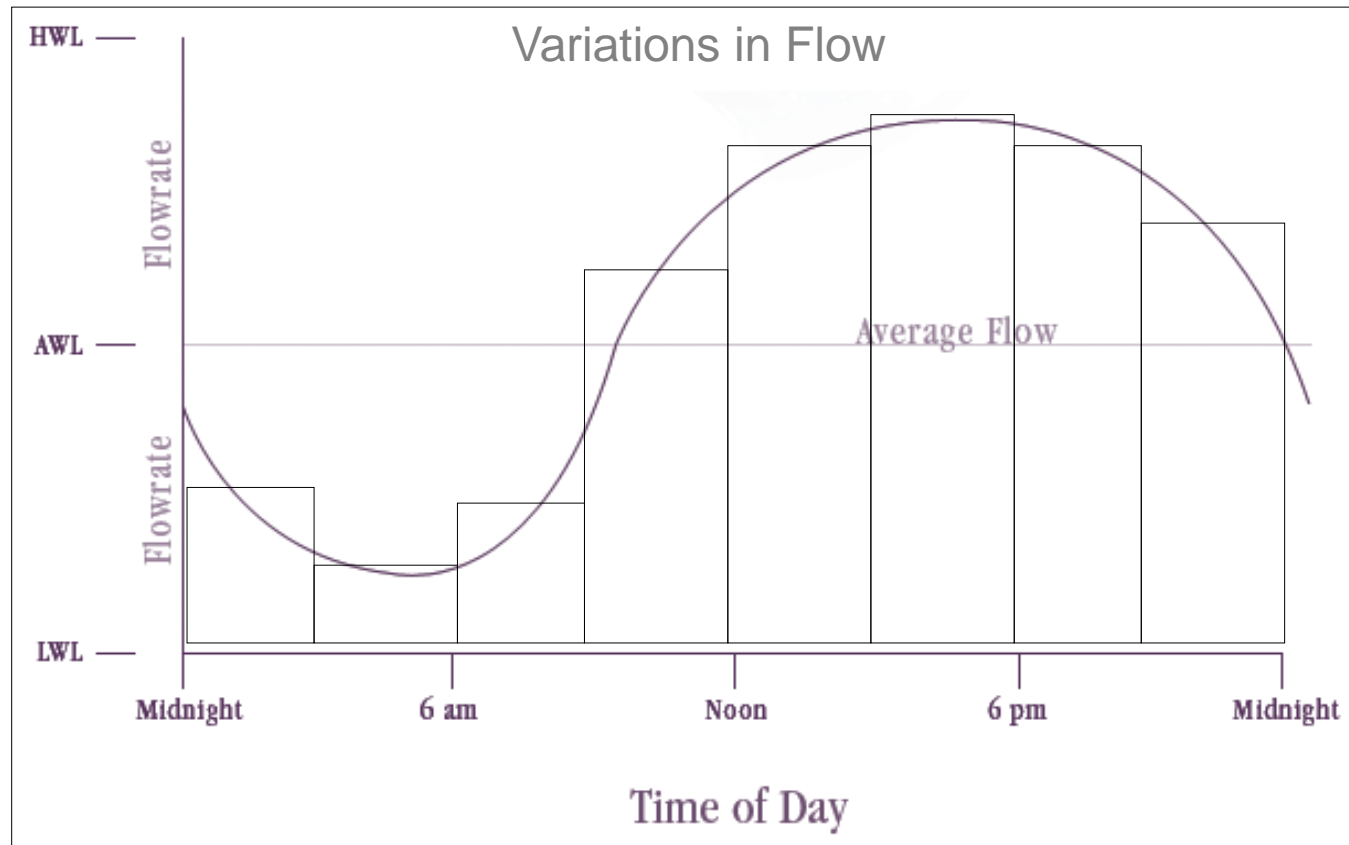
4 Settle (S)





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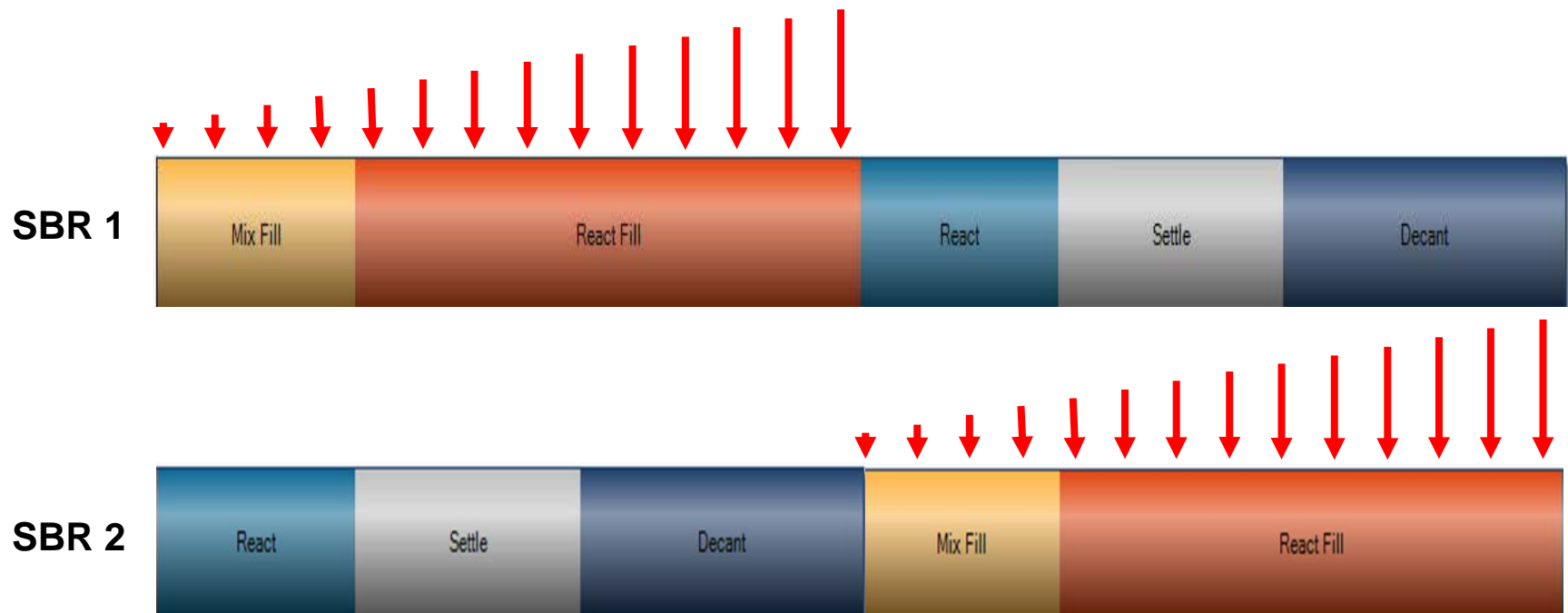
Cycle Times – Batch Volume Determination





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Cycle Structure - Typical Dual Basin Relationship

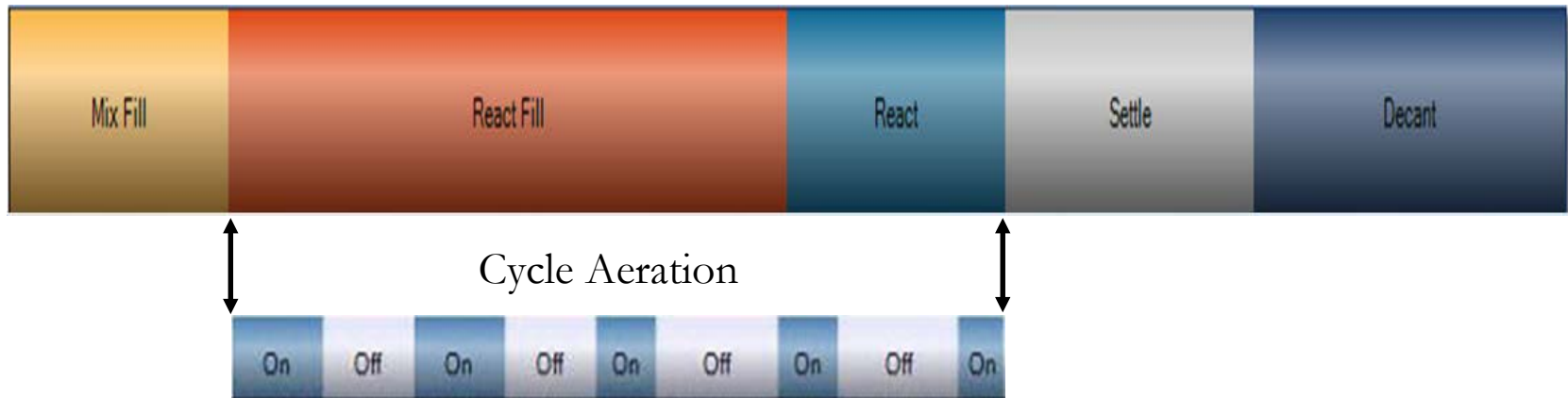




Adaptive Design

Nitrogen Removal

Total Nitrogen Removal

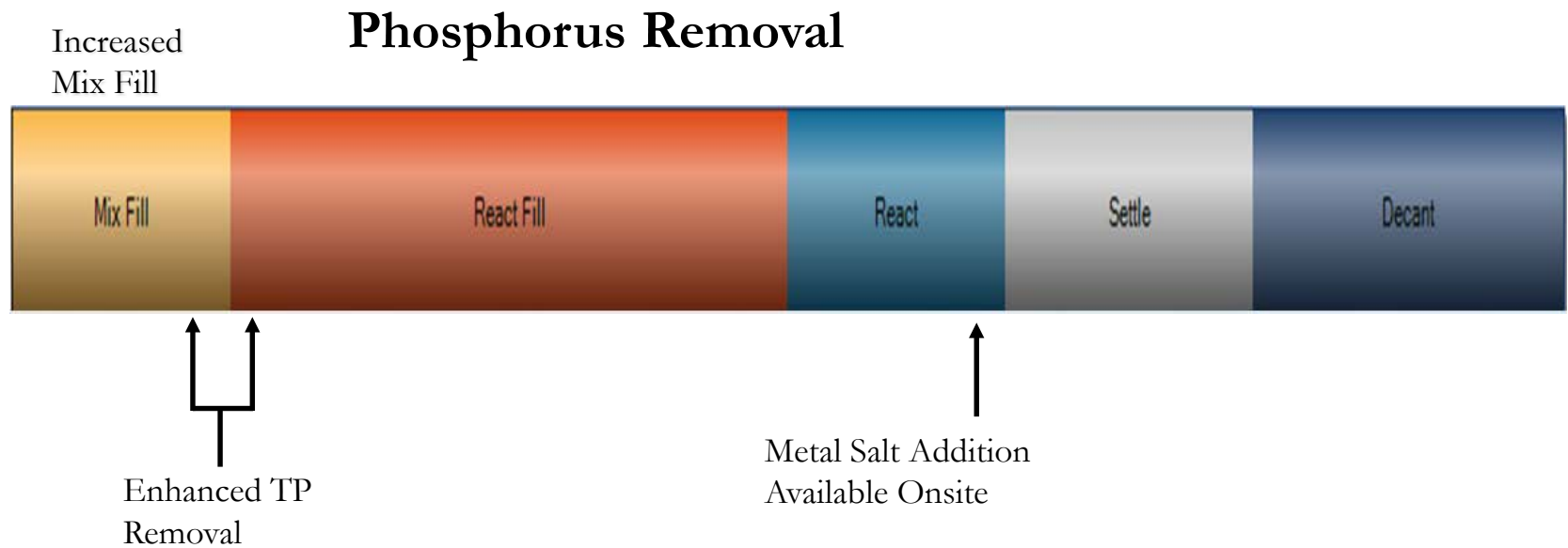




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Adaptive Design

Phosphorus Removal



AquaSBR® Components

Unequaled Quality



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Aqua MixAir®

Aqua-Aerobic
Decanter



Aqua-Aerobic Control Solutions

Aqua-Aerobic Decanter



AQUA-AEROBIC SYSTEMS, INC.
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- Two Models Available
 - Electrically Actuated
 - Ballast
- Floating Units
- Subsurface Withdrawal
- Redundancy in Control
- Low Entrance Velocities



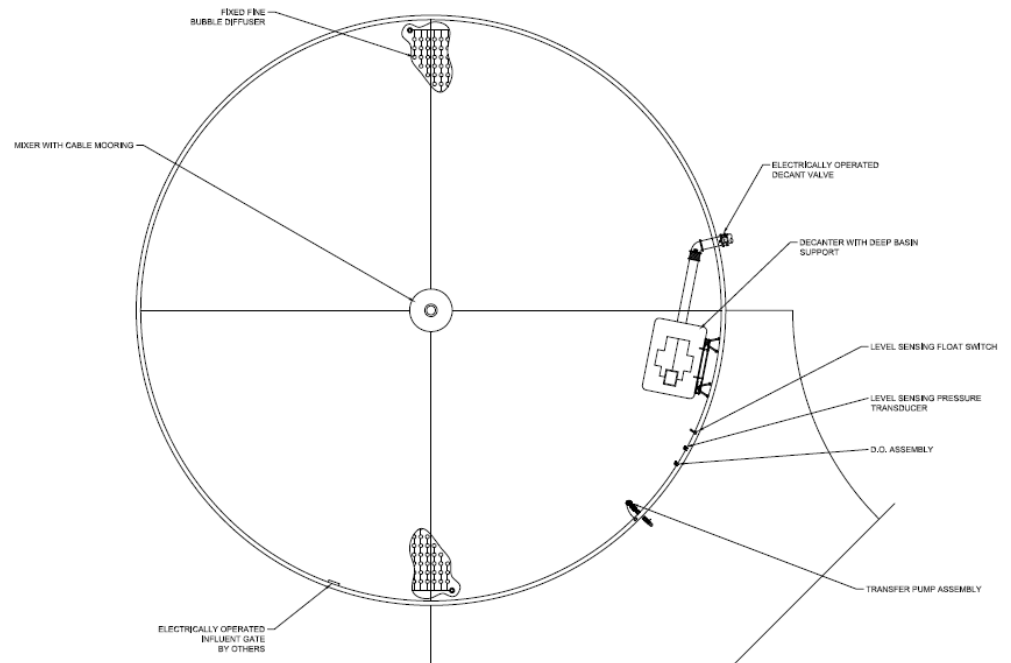


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Installation Profile

Valdosta, GA

- Largest AquaSBR in the US
- 12 MGD Average / 22 MGD Peak
- 3 mg/L TN / 1 mg/L TP





Installation Profile

Port Wentworth, GA – Metal Removal

- AquaSBR System with AquaDisk Cloth Media Filters
- IntelliPro System Installed
- Three (3) Basin SBR System / Two (2) Six-Disk Filters
- Effluent Discharge to Savannah River
- Hg, Cu, Pb limits met with SBR system
- Partial particulate Zn removed in SBR and polished by Filter

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Metal Removal



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	Required Limit (µg/L)	Plant Influent (µg/L)	Filter Influent (µg/L)	Plant Effluent (µg/L)
Total Hg	0.2	<0.2	<0.2	<0.2
Total Cu	5	16	<5	<5
Total Pb	1.5	1.6	<1.5	<1.5
Particulate Zn		39	5	0



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