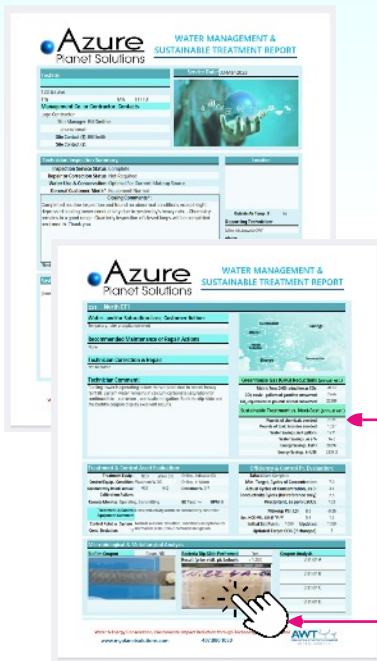


# The Azure Planet Solutions, Water Treatment Management Report - New Features



PDF Report to email immediately upon completion of service  
(Technician logging and reporting is mobile phone, app-based; Data is compiled and the finished report is sent from the server.)



Environmental Impact Reduction Highlights & Water/Energy Savings with Sustainable Technology

Greenhouse Gas (GHG) Reductions (annual est.)	
Metric Tons GHG reduction as CO <sub>2</sub> :	7.26
CO <sub>2</sub> equiv., gallons of gasoline consumed:	816
CO <sub>2</sub> equivalent as pounds of coal consumed:	8027
Sustainable Treatment vs. Next-Best (annual est.)	
Pounds of chemicals avoided:	462
Pounds of toxic biocides avoided:	276
Water Savings, in K gallons:	238.5
Water Savings, as a %:	7.3
Energy Savings, kWh:	10221
Energy Savings, in US\$:	2156.66

Click images in Internet browser to view and download

## Intuitive Layout Provides for Rapid Assessment of Controls & Equipment Status and Operating Targets

Clear Description & Status of Treatment & Control Equipment, Tech. Actions

Calculated Deviations Alert the Service Technician to necessary PM Actions

Other Deviations Alert the Service Technician to Inspect or Comment on Conditions out of desired range.

Critical Performance Computations are Automatically Completed in the Service App

Treatment & Control Asset Evaluation:				Efficiency & Control Pt. Evaluation:			
Treatment Equip.:	NCD	Device 2.0	Online, Indicator OK	Saturation: Complete			
Control Equip., Condition:	Walchem W100		Online, In Alarm	Min. Target, Cycles of Concentration:	7.0		
Conductivity Read/ Actual:	935	942	Deviation % 0.7	Actual Cycles of Concentration, as CI:	3.4		
Calibration Actions:				Conductivity Cycles (for reference only):	2.6		
Remote Monitor:	Operating, transmitting	BD Test:	Yes	GPM:	103		
Treatment & Control Equipment Comment	Low conductivity alarm on conductivity controller			Makeup PSI, LSI	8.6	-0.25	
Control Point vs. System	Normal seasonal deviation; conditions acceptable for normal for scale-/ bio-/ corrosion-mitigation			Sys. NCD-PSI, LSI @ °F:	91	5.9	1.3
Cond. Deviation:	11			Initial Set Point:	1050	Updated:	1050
				Updated Target COC (if changed):	7		



## Quick-Read Summary Comments for Each System

- Plus, closing comment on first page, (not shown)

OS1 CP3, CWS-1
<b>Water- and/or Saturation-Loss; Customer Action:</b>
<b>Recommended Maintenance or Repair Actions</b>
None
<b>Technician Correction &amp; Repair</b>
Not Required
<b>Technician Comment:</b>
Water quality is excellent with conductivity operating slightly below setpoint. No visible sign of waterloss so it's suspected that filter backwash is reducing the potential for additional water use reduction. Powder production is positive, which benefits corrosion mitigation but, slightly higher cycles of concentration would make the Practical Scaling Index (PSI) in a more favorable range.

Filter Assets		Comment
A	B	
Status	Online	Offline
Filter Type	Cartridge	Sand Filter
Inlet PSI	37	47.6
Outlet PSI	37	35.6
Differential PSI		
GPM Flow Rate		
Manual Backwash/ Test	No	No
Asset ID & Log		Ch-3
Status	Online	Standby
Inlet PSI		
Outlet PSI		
Differential PSI		
Load/s or GPM		40.5
Inlet Temp, F		50.1
Outlet Temp, F		59.3
ΔT or Approach, F		1.7
Comment	Sump is clean	Ch-3 standby

Logs for each System Filter & Major Asset

Side-by-Side Makeup & System Water Analysis for Every System

Test Data	Makeup System	Dipslay
Source/ Treat. Method	City	
Water Temperature, F	-	83
Conductivity, µs/cm	360	942 935
pH	7.8	8.3
Chloride (as Cl)	16	55
P Alkalinity	0	10
T Alkalinity	105	280
Calcium Hardness	95	220
Total Hardness	110	260
Silica, Total (as Si)	-	-
Silicate, Active (as Si)	-	-
Iron (as Fe)	0	0
Copper (as Cu)	0	0
Turbidity, NTU	0	0

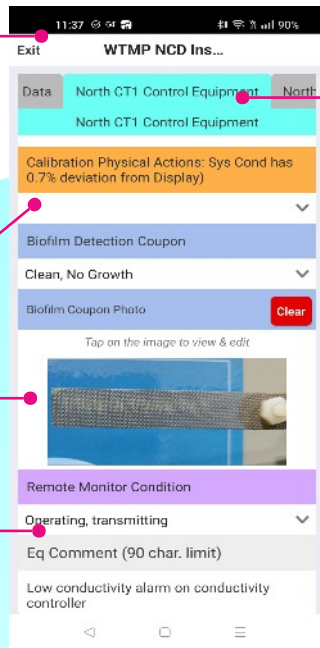
Grouped Biological Results & Corrosion Coupon Logs

Microbiological & Metallurgical Analysis			
Biofilm Coupon	Clean, ND	Bacteria Dip-Slide Performed	Coupon Analysis
		Result (prior visit, pic below): 1,000	Station A
			Station B
			Station C
			Station D

## From a Technician's View...

# Modern Reporting for Modern Treatment Technology

- Actual Screenshots from a Mobile Device



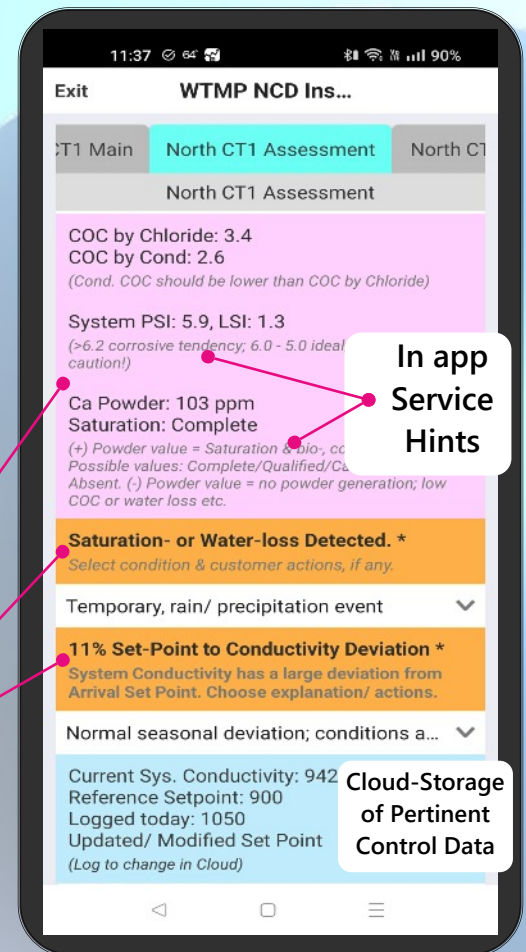
System ID

In-app Alerts!

Photo Uploads

Drop-down Menus for Common Comments

## Technician Assessment Screen - Data Interpretation



In app Service Hints

Complex Calculations Performed Instantly  
Water-loss, Saturation, & Out of Normal Range Alerts

Cloud-Storage of Pertinent Control Data

A Better Planet through Better Service

Water & Energy Conservation, Environmental Impact Reduction through Technology & Expert Service