

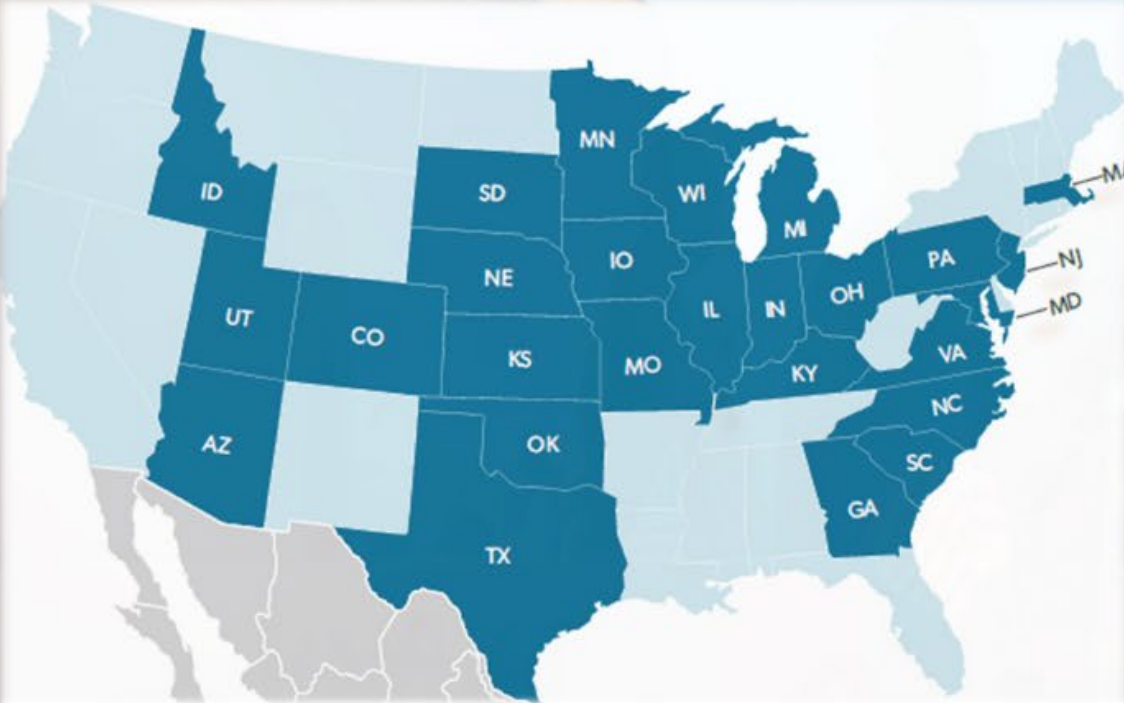


Smithfield.

Good food. Responsibly.®

Wilson, NC Brine Conservation Project

Smithfield as a Whole



~36,500

Employees



260+

Company-Owned Farms



1,400+

U.S. Contract Farms



41

Processing Facilities



Smithfield



Smithfield
CULINARY

Sustainability at Smithfield

Our Approach to Sustainability

At Smithfield, "Good Is What We Do" is not just about producing good food. It's a reflection of how we strive to operate a good business that prioritizes responsible practices, operational excellence, innovation and continuous improvement; to be good stewards of the environment and our animals; and to do good work to make a positive impact on our workforce and in our communities.

Our Sustainability Priorities



Good Business



Good Stewards



Good Food



Good Work

NC Environmental Enhancement

Environmental Enhancement Grant Program

Smithfield contributes \$2 million a year to the North Carolina Department of Justice's Environmental Enhancement Grant program under a 25-year voluntary agreement made in 2000 with the North Carolina attorney general. The program has awarded nearly \$43 million to more than 228 projects in the state.

Grants range from \$5,000 to \$500,000 and are available to nonprofit organizations, including academic institutions and government entities. Funds can be used for land acquisitions or construction, remediation, restoration, planning, education and research projects, with a preference for projects that address environmental harm and damage to overburdened and underserved communities in North Carolina.

In 2023, more than \$2.3 million in Environmental Enhancement Grants were awarded to 18 recipients throughout North Carolina, including \$150,000 for the Coharie Indian Tribe to create a watershed protection plan to manage the Coharie River Watershed; \$200,000 for the Wildlife and Outdoor Recreation Foundation to purchase 48 acres to add to existing wetlands and implement measures to prevent flooding and erosion; and \$150,000 for the Conservation Fund to protect 3,530 acres along the Lumber River, which will become a part of the Lumber River State Park.

PROJECTS FUNDED SINCE 2002 INCLUDE:



NC Foundation for Soil and Water Conservancy
\$5,592,000 to fund statewide lagoon closures, installation of on-farm water systems and other projects



Ducks Unlimited
\$2,760,750 for wetland restoration, infrastructure construction, land acquisition and land management in Eastern NC



NC Coastal Federation
\$2,595,972 for living shoreline installation, land acquisition, advanced hydrological modeling tool to identify future restoration and conservation, restoration of tidal marsh and floodplain lands



NC Coastal Land Trust
\$2,546,500 for land acquisition in Eastern NC, acquisition of conservation easements and updates to conservation plans



NC Wildlife Resources Commission
\$1,484,000 for habitat maintenance and installation of field buffers to improve water quality



Cape Fear River Assembly
\$700,000 for water quality monitoring in Chatham County and to research water, benthic and fish samples



City of Jacksonville
\$675,000 for aerator installation and bioremediation and construction of an oyster habitat in the New River Estuary



City of New Bern
\$354,000 for a hydrologic study, construction of storm-water infrastructure in an underserved neighborhood, and resiliency planning to address massive flood events



The Conservation Fund
\$500,000 for land acquisition to expand state game lands and protect 3,530 acres along the Lumber River

Smithfield-Wilson

- The Wilson facility was built in 1957 as a harvesting and fresh cuts facility by the Swift Co.
- Wilson produces Ready-to-Cook (RTC) Retail Bacon for over 200 different labels
- Daily throughput is near 500,000lbs of deliciousness
- 600 Full-time employees
- 2 Production shifts, 5-6 days/wk
- Operation includes:
 - 2 belly injection lines
 - 7 natural gas smokehouses
 - 19 production lines
 - Refrigeration utilizes 24,000lbs of Ammonia
 - Wastewater pretreatment operation



Wilson's Environmental Achievements

NCDEQ-Environmental Steward Initiative (ESI)

- *Celebrated our 15yr recognition as an Environmental Steward in 2023*

North American Meat Institute (NAMI)

- *Environmental Recognition of Tier 4 2016 – 2024*
- *1st Place National Award for Water Reduction 2023*
- *2nd Place National Award for Waste Reduction 2024*

City of Wilson Pretreatment Compliance Award

- *Gold: 2014 – 2021*
- *Silver: 2022 – 2024*

Smithfield President's Award for Water Reduction 2019



Brine Conservation Project

Objectives

- More robust training for new department employees
- Discussed during daily MIQ Tier meetings
- Create SOP for calculations for brine formulation
- Upgrades to equipment

Goals

- 10% reduction in disposal costs
- Possible water usage reduction
- Avoidance of Notice of Violation (NOV) with
City of Wilson Pretreatment for chlorides



excessive brine on floor

Brine Conservation Project

Cure Pump & Hang (CPH) Department

Concerns:

- Excessive waste brine = Excessive disposal & hauling costs
- Excessive waste brine = Excessive chlorides = NOV's
- Excessive brine makeup for total of production
- Inadequate training for new employees on the importance of waste brine conservation
- Failures to communicate between Operations and Maintenance about issues that arise

Brine Conservation Project

Execution Schedule (How we will implement the solution(s)) to get the desired results?

Activities		Week Beginning								
		1-Jul	18-Jul	25-Jul	12-Aug	26-Aug	2-Sep	9-Sep	23-Sep	30-Sep
1	Change valve over to waste water after pumping cherwood or applewood	●	▲							
2	Spraying down the floor twice a shift (as apposed to three)		●	▲						
3	Establish SOP for changing valve for waste brine tank			●▲						
4	Increase the pressure on the injector blowers to force more pickle back into the injector and away from falling onto the floor				●▲					
5	Take readings from waste brine tank at shift start, break,a nd end of shift to establish baseline/trend					●▲				
6	Create sharepoint waste brine tank tracker to fill out until Ignition form is ready					●▲				
7	Create form in Ignition to input tank levels					●	▲			
8	Editing sanitation floor turnover paperwork in CPH to confirm the waste bring valve has been changed to wastewater							●	▲	
9	It's required that someone from 2nd or 3rd shift signs teh floor turn-over paperwork for CPH							●	▲	
10	Building out real-time graph in ignition to display tank levels and transfer times									●▲

Improved Equipment and Maintenance PMs



pin & hang



diverter valve



pump & valve

Brine Conservation Project

Cure Pump & Hang (CPH) Department

CPH Brine Valve



CONNECTED

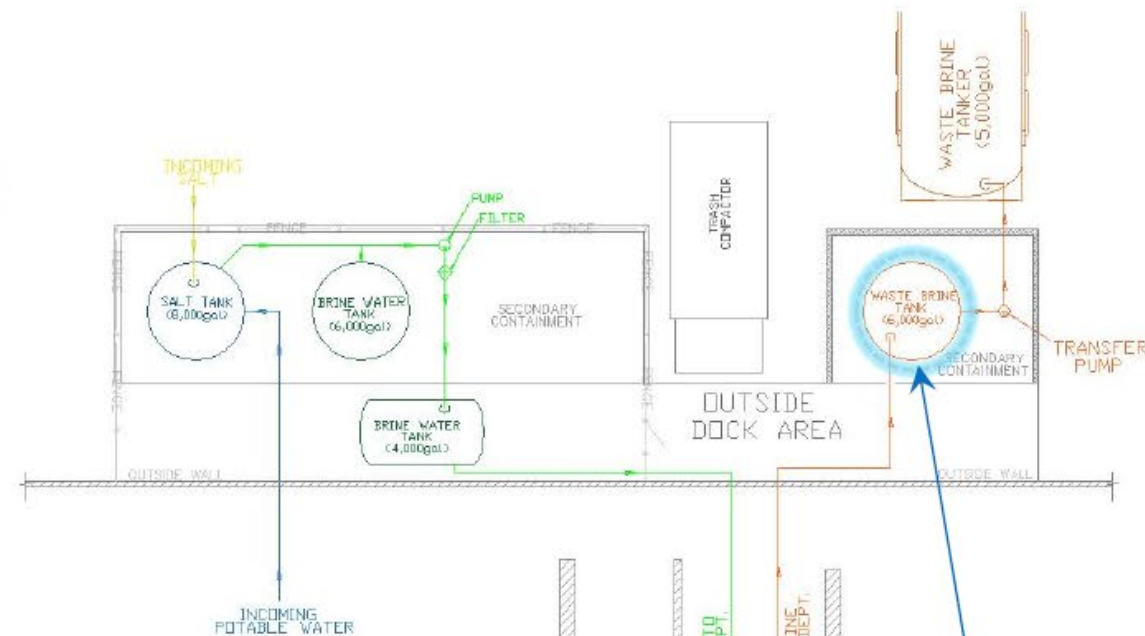
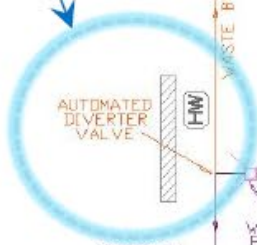
WASTE WATER (O)

WASTE BRINE (C)

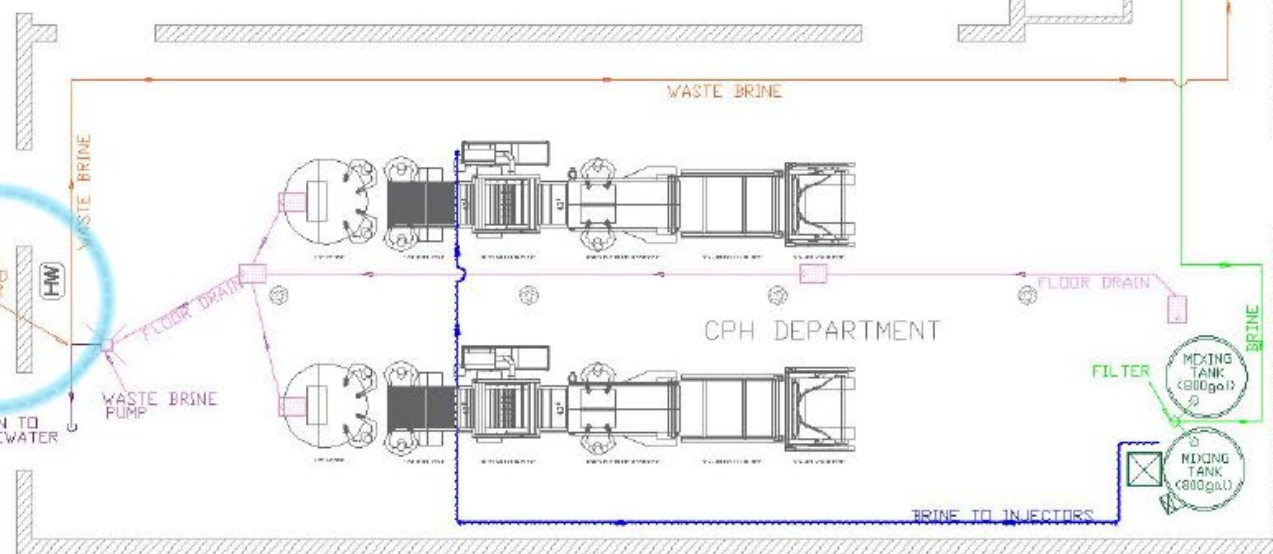
Output: ON = Closed

Time to Change State (ms) 12,000

Valve Successfully Opened.

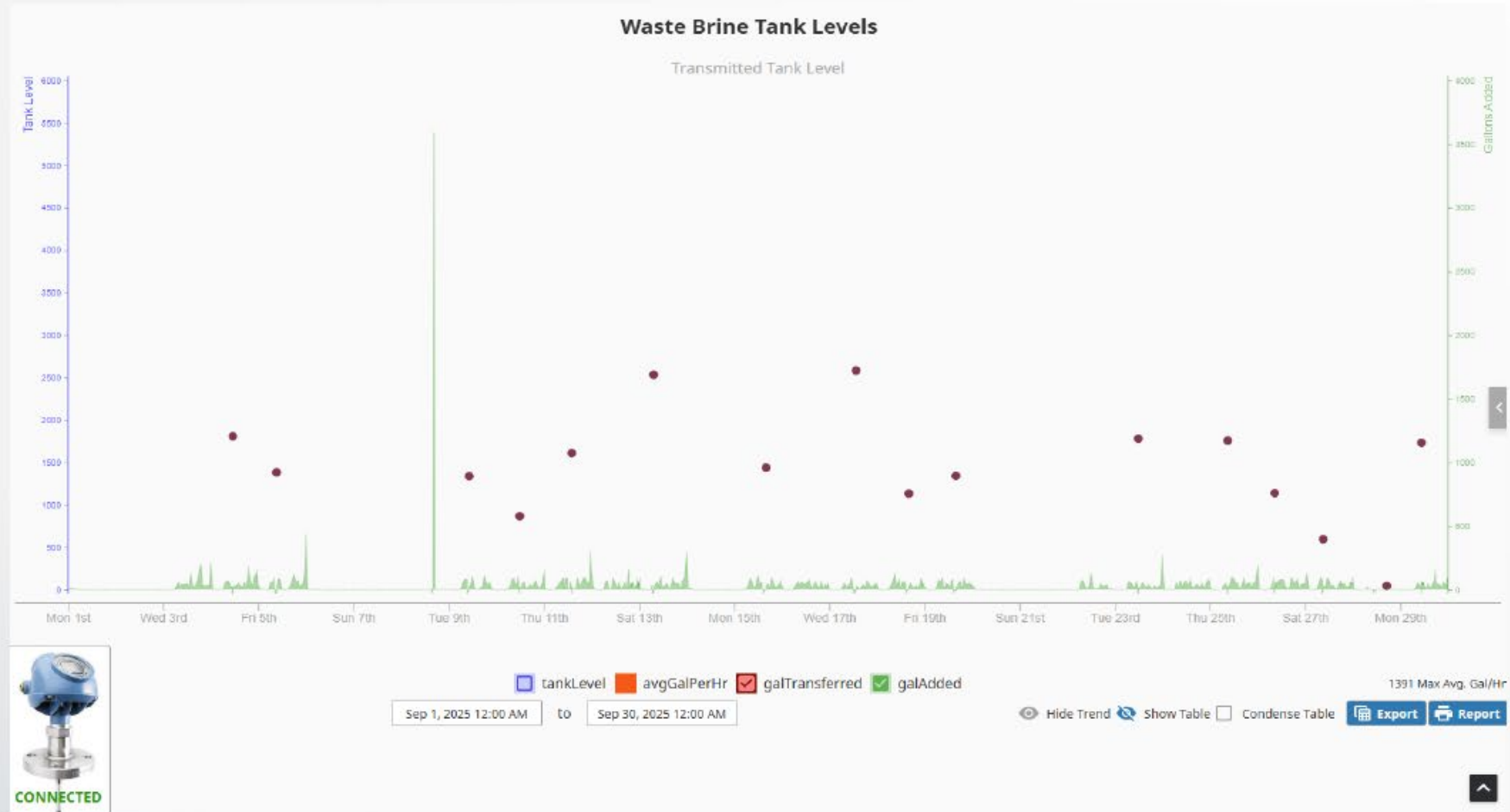


CONNECTED



Improved Equipment and Maintenance PMs

- Installed level sensor in the Waste Brine Holding Tank & integrated into Ignition



Improved Equipment and Maintenance PMs



brine filtration



*brine recovery
hoses*

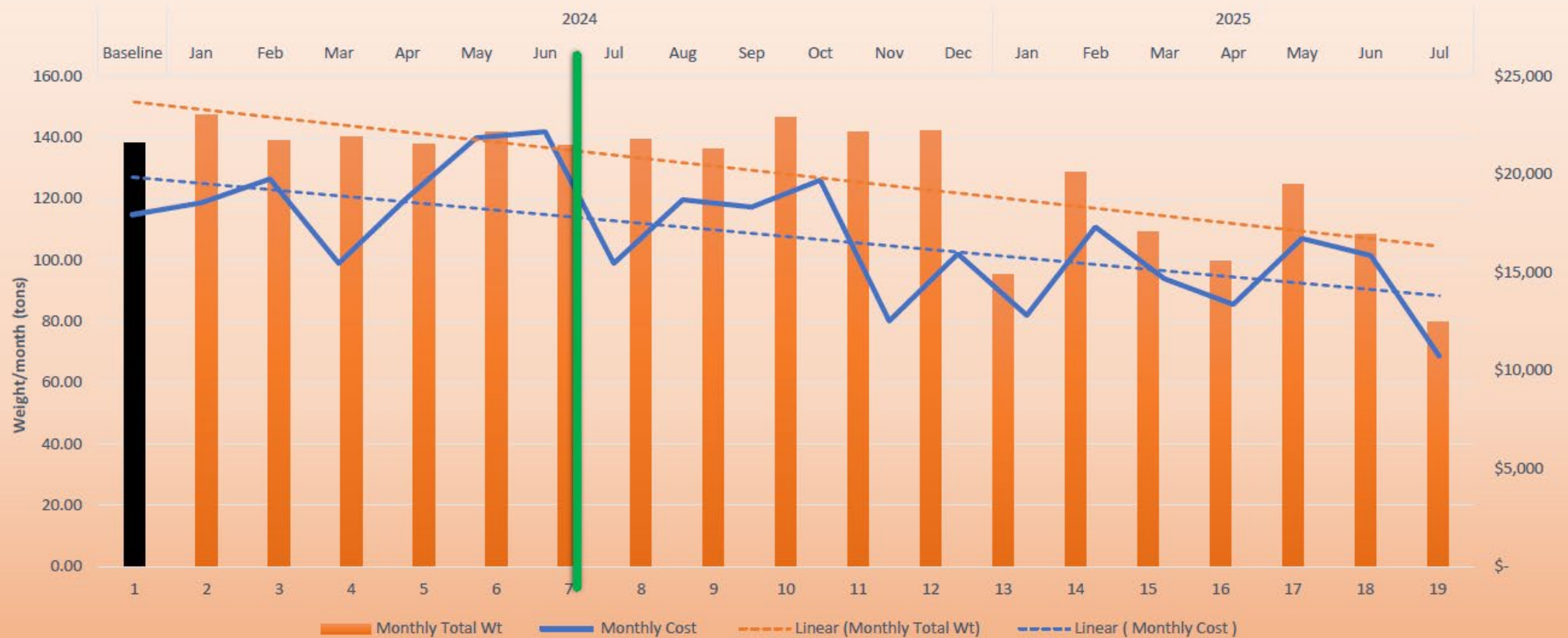


*brine recovery
hoses*

Are We Winning?

14% reduction in costs from 7/2024-12/2024

19% reduction in costs YTD 2025





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Thank You!