Argyle Cheese Factory LLC (Argyle Cheese) is a dairy manufacturer located on a farmstead in Argyle, New York. The company produces high quality yogurts, buttermilk, and artisan cheeses. Argyle Cheese is the first in the area to offer yogurt in a recyclable, returnable glass container.

**Challenge**

In an effort to expand their operations, Argyle Cheese has decided to move to a more structured facility with state-of-the-art processing and cleaning equipment. The move is expected to increase wastewater amounts from 3,000 GPW (gallons per week) to approximately 4,600 GPW and potentially as high as 20,700 GPW. As a result, Argyle Cheese has expressed concern over the increased amounts of wastewater that would be generated, especially with respect to whey.

By seeking support from the New York State Pollution Prevention Institute (NYSP2I), Argyle Cheese wanted to identify more efficient ways to manage their waste and wastewater.

**Solution**

NYSP2I conducted an on-site assessment to better understand the operation of their facility and identify process improvements and best practices related to water use and wastewater management. Additionally, NYSP2I evaluated the wastewater and whey disposal options for Argyle Cheese. Once the options were evaluated to improve processes, an economic analysis was initiated to determine feasibility.

**Results**

As Argyle Cheese prepares to move into their new production facility, NYSP2I has identified opportunities to reduce water use and wastewater volumes, divert whey to various re-purposing outlets, and save the company money. Some of these reduction opportunities include:

- Low flow manual spray nozzles for hose spray-down cleaning
- Clean-in-place system to control tank and vat cleaning processes
- Low flow spray balls in the tanks for clean-in-place cleaning
- Switching from manual clean-out-of-place washing to automatic clean-out-of-place machine
- Send whey waste to Glens Falls wastewater treatment for seasonal nitrate wastewater treatment of Ames Goldsmith high nitrate waste

While additional information required to complete the economic analysis is not yet available (specific details not known until start-up), Argyle Cheese would certainly realize water and wastewater costs savings with implementation of any of the identified options above. NYSP2I can assist Argyle Cheese with implementation efforts.