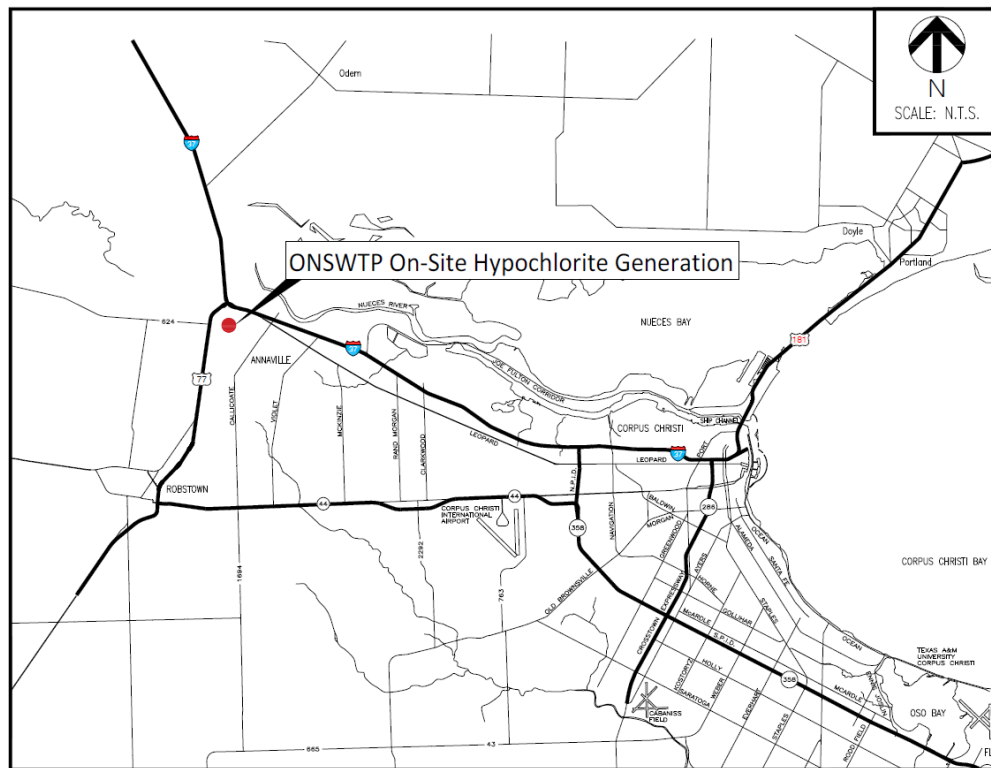




O. N. Stevens Water Treatment Plant On-Site Hypochlorite Generation



Council Presentation
December 11, 2018





Project Vicinity



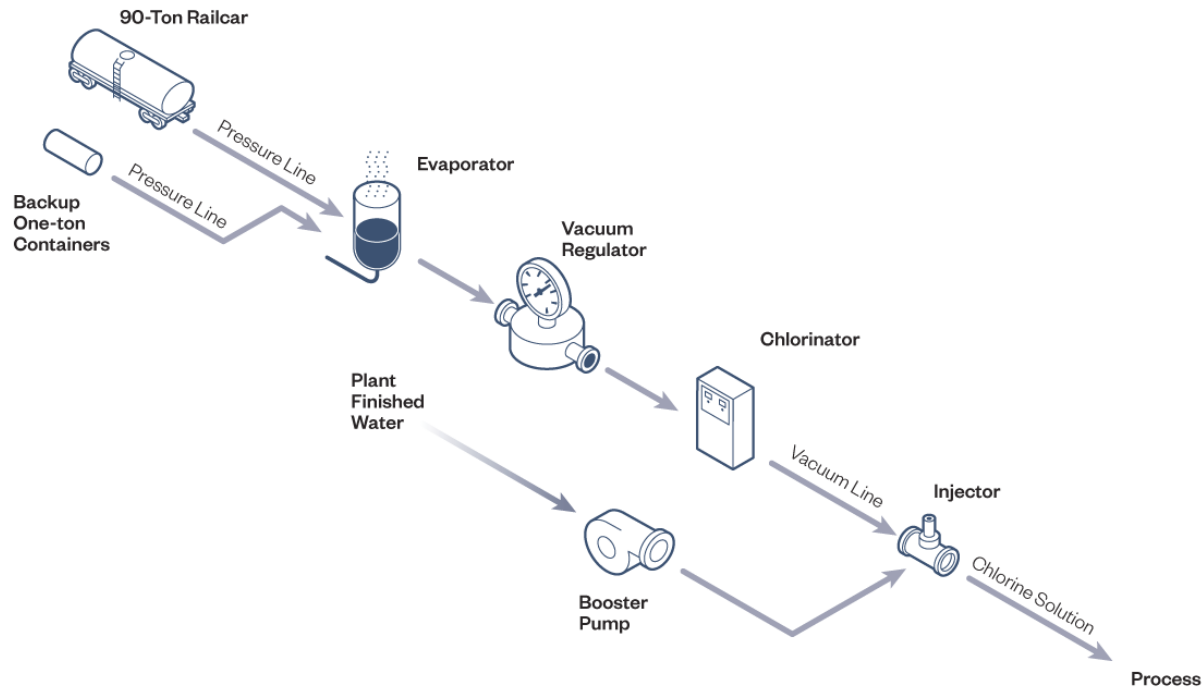


Project Location



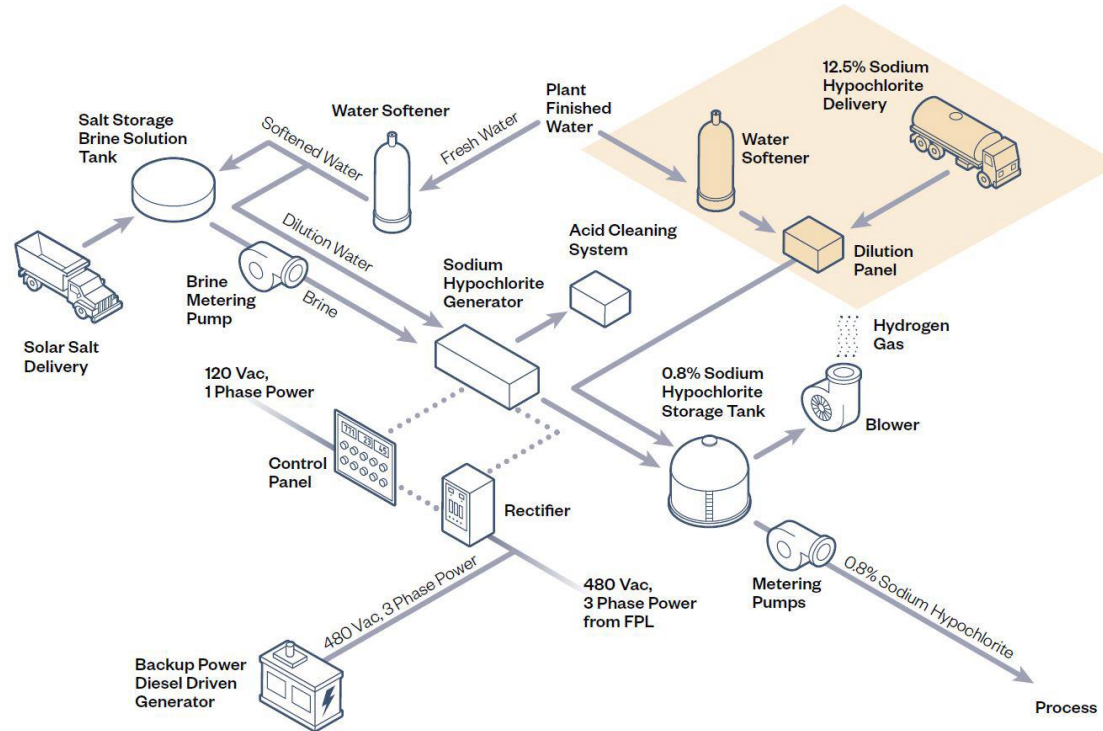


Existing System





Proposed System





Proposed System



Electrolytic Cell



Equipment



Electrical Equipment



Control System





Process Comparison



Existing Chlorine Gas System:

- Chlorine received in 90-ton railcars
- Chlorine is highly corrosive and a toxic inhalation hazard
- Major upgrades, such as a wet scrubber, are required to enhance system safety

On-Site Hypochlorite Generation (OSG) System:

- Inputs are salt and electricity
- Dilute bleach solution generated on site
- Greatly reduces amount of hazardous material at O.N. Stevens
- Lower on-site safety risks



Project Scope



Provides for preliminary design phase services for a new On-Site Hypochlorite Generation (OSG) system at the ONSWTP as summarized below:

- Site survey and subsurface utility investigation
- Scope requirements for geotechnical investigation
- Determine unit quantities, sizing, and design criteria
- Identify construction sequencing and disinfection system transition sequencing
- Develop vendor selection criteria



Project Schedule



2019									
Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Preliminary Design									

Preliminary Design Estimate: 300 Calendar Days $\approx$ 10 months

Projected Schedule reflects City Council award in
January 2019 with anticipated completion by
November 2019



Questions?