Southwest Regional Pipeline

2020 Diversion Permit Tentative Determination

Public Comment Meeting

January 6, 2021

Dan Lawrence – Aquarion:

Ingrid Jacobs – Aquarion:

Peter Galant – Tighe & Bond:

Vice President, Engineering, Planning & Real Estate

Manager, Water Resources & Infrastructure Planning

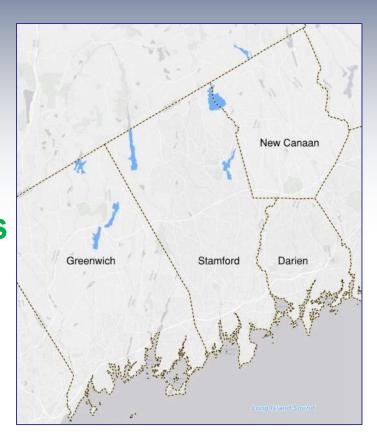
Vice President



Objective

To provide:

- Adequate public water supply
- Improve drought resilience
- Meet reservoir release requirements in Southwest Fairfield County.





Where We are Today

Task		2020												
	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Stakeholder Notification/Meetings														
Filed Application			*											
DEEP Requests for Information														
Public Information Meeting								A						
Respond to Public Questions														
Notice of Tentative Determination												*		
Public Comment Period														



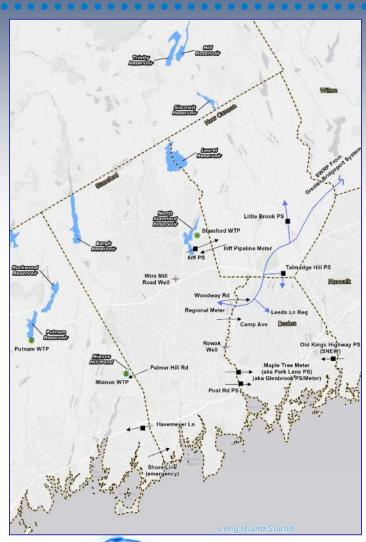
Outline

- What is the Southwest Regional Pipeline (SWRP)
- Water Supply Need
- Solution
 - Increase capacity to transfer water from the Greater Bridgeport System through the Southwest Regional Pipeline (SWRP)
- Impact on Greater Bridgeport System
- Response to Public Questions

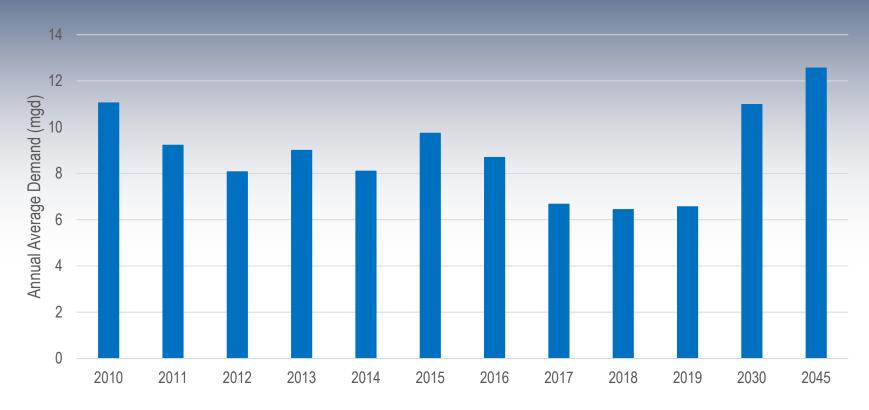


Southwest Regional Pipeline (SWRP)

- From Greater Bridgeport System
- In service since 1990
- Diversion Permit
 - DIV 97-13
 - 7.26 mgd
 - Expires June 2023



Capacity Needed In Addition to Local Sources

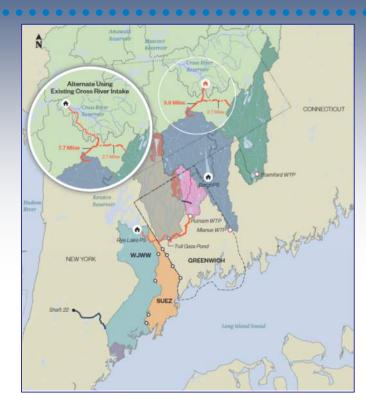


- 1. Based on Margin-of-Safety (Supply/Demand) = 1.15
- 2. Projections include increased demands and reduced available water.

Annual average supply of 12–13 mgd is required from the SWRP to meet DPH target for adequate supply.

Alternatives Considered

- Purchase water from New York City
 - Treated
 - Raw
- Increase reservoir storage
- Develop groundwater supply



Increase Southwest Regional Pipeline (SWRP) capacity

Conservation is Key To All Alternatives

- Amy Vickers & Assoc.
- Irrigation Restrictions

- SWFCR: 2017

Westport/Newtown: 2018

Continued expansion

- Demand reductions observed
 - Additional 2030 savings: 0.2-1.5 mgd
- Success Will:
 - Reduce transfers
 - Delay Improvements

http://aquarionwater.com/CT/waterconservation

Conservation Tips to Reduce Outdoor Water Usage



For Aquarion Customers in Darien, Greenwich, New Canaan, Newtown, Stamford and Westport



Mandatory, Maximum Twice-Weekly Sprinkler Irrigation Schedule

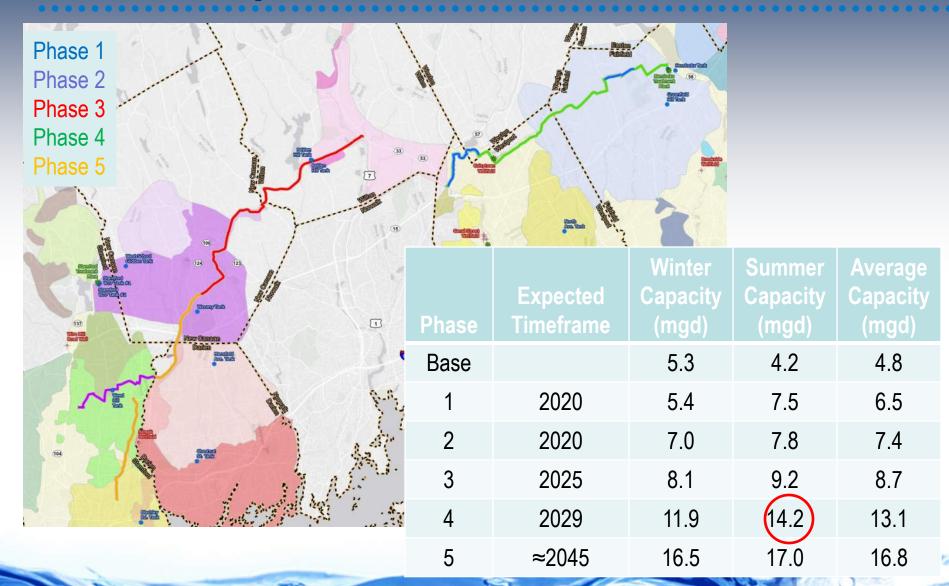
Please Water Only On:						
Sunday & Wednesday 12:01 am – 10:00 am, or 6:00 pm – Midnight						
Saturday & Tuesday 12:01 am - 10:00 am, or 6:00 pm - Midnight						

Sunday & Wednesday 12:01 am - 10:00 am, or 6:00 pm - Midnight

No address number

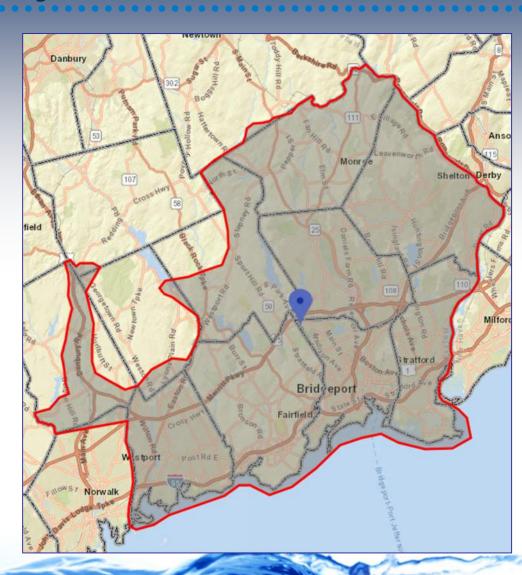


SWFCR Improvement Plan



Greater Bridgeport System

- Regional System
 - 11 towns served
- Sources of Supply
 - Trap Falls Reservoir System
 - Easton Reservoir
 - Hemlocks Reservoir System
 - Saugatuck Reservoir
 - Aspetuck Reservoir
 - Hemlocks Reservoir
 - Canal Street Wellfield
 - Coleytown Wellfield



Impact on Greater Bridgeport System

Start of streamflow releases and reactivation of Housatonic Wellfield @ 11.58 mgd

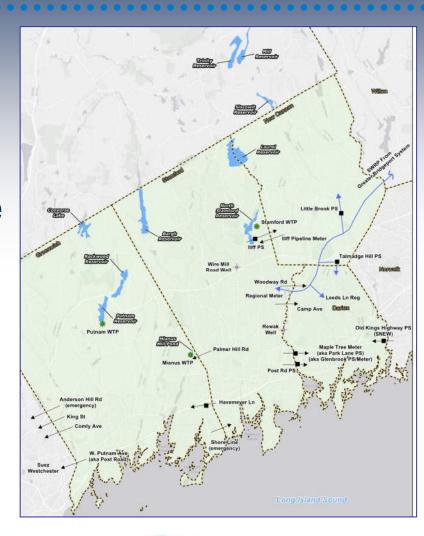


With reactivation of the Housatonic Wellfield the Greater Bridgeport System has adequate supply to meet increased demands and make all required reservoir releases.



SWRP Diversion Permit Application

- Greater Bridgeport System to SWFCR
- Maximum daily limit = 14.2 mgd
- Confirm four towns in SWFCR are one service area
- Term = 25 years
- Tentative Determination adds
 12.56 mgd annual average limit



Public Question Themes

- What was the basis for the projected increase in demands?
 - Historical demands (including drought restriction years)
 - DOT population projections
 - Average 70 gpcd
- What will the impact of the diversion be on streamflow?
 - Downstream flow controlled by releases and will not change
- Does the Greater Bridgeport System have adequate supply?
 - Margin-of-Safety
- Is the Housatonic Wellfield contaminated?
 - Manganese, Nitrate



Objective

By implementing improvements and obtaining this permit we will:

- Provide adequate public water supply
- Improve drought resilience
- Meet reservoir release requirements in Southwest Fairfield County.

