

Date: **January 9, 2023**

Project No.: **20985**

To: **Orleans Wastewater Management Advisory Committee (WMAC)**

From: **Mike Giggey**

Subject: **Orleans Wastewater Management Planning
Work Plan for Proposed Sewer Phase 3**

At the December 22, 2022 WMAC meeting, it was voted to proceed with further evaluation of a possible sewer extension to serve the upgradient areas of Crystal Lake and Pilgrim Lake, with expected nitrogen removal benefits for Lonnie's Pond and Arey's Pond. The purpose of this memo is to lay out important tasks leading to a possible funding article for Phase 3 at the 2023 Annual Town Meeting.

In this memo, the proposed tasks are accompanied by a tentative schedule with the target of formulating an ATM article before the March 9, 2023 deadline for the warrant. The suggested completion dates are linked to WMAC meetings:

- January 12
- January 26
- February 9
- February 23

Complete Conceptual Design

- Develop a revised sewer layout that protects Crystal Lake and Pilgrim Lake from phosphorous loads, and also addresses all of Orleans' remaining nitrogen load removal responsibilities for Lonnie's Pond and Arey's Pond under the PB Watershed Permit.
 - AECOM will do the sewer routing—report to WMAC on Jan 12
 - Wright-Pierce will update the nitrogen flux calculations—complete by Jan 26
- Make decisions about the degree of unsewered growth to be accommodated in these sub-watersheds—at WMAC Jan 12:
 - Between 2004 and 2014
 - After 2014
- Decide on water use basis (2014-15 vs. 2018-19, or other)—at WMAC Jan 12.

Develop Cost Estimates

- AECOM to develop costs estimates (design and construction)—by WMAC Feb 9.
- AECOM to Identify permitting needs—by WMAC Feb 9.

Consider Brewster Participation

- Make decisions about the possibility of addressing Brewster's responsibilities in these sub-watersheds—by WMAC Jan 26. (Need to discuss who should be involved in this decision)

- Establish some guidelines for possibly working with Brewster—WMAC Jan 26
 - Who will be the lead contact(s) for each town?
 - Nature of commitment needed and when
 - Cost sharing formula
 - Public input needed for both towns

Coordinate with Town Boards and Committees

- Coordinate with other Town boards and committees—in Jan
 - Health Department—address sanitary needs?
 - Water and Sewer Commissioners
 - Planning Department—growth
 - Finance Committee
 - Marine and Fresh Water Quality Committee
 - Public Works
 - Water Department—water system improvements that could be included?
 - Other?

Coordinate with Select Board

- Regular updates by Kevin Galligan
- Presentation to Select Board by WMAC—early March

Consult with the Public

- Conduct a public consultation program to receive citizen input—target a public meeting in late March. Present a decision matrix. Be ready for likely questions:
 - Why this area for the next sewer phase, instead of others?
 - Is this consistent with CWMP?
 - Adequacy of pond protection measures
 - Reserve capacity in wastewater treatment plant and its use here
 - Wisdom of including Brewster—why let Brewster use treatment plant capacity that could serve Orleans?
 - Town stance on Title 5 regulations and watershed permitting (not directly on task, but good opportunity)
- Consider Public Service Announcements

This list is far from complete; I offer it just to get the conversation started. This memo could be a prime discussion topic for the WMAC meeting on January 12.