

Request for Proposals

Water Quality Monitoring Program

Bid Opening Date: July 16, 2021

Project Abstract

The Town of North Stonington Water Pollution Control Authority is seeking proposals from qualified firms to implement a water quality monitoring program modeled on program initiated in 1976 that called for periodic sampling and testing of potential pollution sources to provide early warning signs of impending sewage problems. The WPCA seeks recommendations for additional sampling locations based on the actual development that has occurred since 1994 and that which is anticipated. The tasks detailed below include: reviewing past sampling locations and available test results; visual inspection, water sampling, and testing in original locations, and comparing results; providing recommendations for additional sampling locations based on development that has occurred and/or to establish baseline conditions, and providing an overall evaluation of results.

Project History

In 1994, the North Stonington Water Pollution Control Authority (WPCA) adopted a Water Pollution Control Plan for the stated purposes of (1) providing information and guidelines for ongoing inventory and monitoring of water quality and potential pollution sources so as to provide early warning signs enabling sewer avoidance, or to determine if sewers are required, and (2) provide information as to the workings of the North Stonington WPCA for the benefit of all concerned.

Specifically, the WPCA was given the responsibility of maintaining a continuous monitoring of conditions and activities which might be expected to endanger the purity of the Town's waters. The institution of a continuing program of water sampling was recommended to provide early indications of impending sewage problems, and the recommended bi-annual reports would revise, as appropriate, the population growth and density projections, industrial development projections and commercial development projections thereby providing early indications of sewer needs if required earlier than the year 2020 (the year projected in earlier reports).

Sampling of subsurface water was to be done on an as needed basis. In 1972, an initial survey of the town was conducted in order to determine if water pollution existed. Based upon the natural drainage characteristics of the land, the Town was subdivided into thirteen drainage districts. Sample sites were then chosen on the basis of current land use patterns. Eleven of the thirteen districts were studied. This same approach was followed in 1976, and results pointed to four potential sources of pollution that included Cedar Ridge, Kingswood/Meadowood, North Stonington Village and the 1-95 state rest area.

Some corrective action was taken and by 1976, the major problems in the Village had been resolved, but the status of the state Rest Area, Cedar Ridge and Kingswood/Meadowood areas remained unchanged. Cedar Ridge remained a significant concern as no improvements had occurred in the intervening four years.

As of the 1994 Plan, the WPCA had not updated the status of these potential problem areas and no further testing was done despite their objective to develop a water quality sampling and testing program that began with the resampling and testing of the initial sampling sites listed in the Sewer Authority's 1976 Report No. 2. The 1994 Plan also recommended additional testing in areas of known industrial, agricultural, residential (home occupation) and commercial operations identified as either not adequately evaluated in the past or

new to the town since 1976, areas around all major bodies of water in Town, and areas with existing or anticipated community sewage disposal systems.

The revised list of 44 Sampling Sites was included in the 1994 Plan (Appendix C).

The water quality sampling program was to be flexible enough to include testing of the following types of ground water:

- Public water supply well fields subject to the Connecticut Aquifer Protection Act (APA).
- Other public water supply fields which are not subject to the APA.
- Community water supply systems.
- Aquifers suitable and identified for future public water supplies.
- Areas of town where sewer avoidance is threatened.

Despite their good intentions, none of the objectives or actions identified in the Plan were implemented.

Between 1994 and 2020, the year the need for public sewers was anticipated, significant growth has occurred but not to the degree projected. A sewer district was established in the Exit 92 area on parcels in the Economic Development and Industrial Districts (See Map Appendix D). Despite the designated district, only AZ Electric and the CT DOT Rest Stop are connected to Public Sewer (private connection with Stonington) and no formal agreement with Stonington exists for further connections. The Hilltop Inn and Bellissimo Grand Hotel on Rte. 2 in the general Commercial Zone are each serviced by individual package treatment plants. All other parcels in town are serviced by on-site septic systems.

Recent interest in several large undeveloped parcels in the Economic Development District and Industrial Zone prompted a new Facilities Study in 2019. Development is expected to continue, and pressure from prospective businesses to provide public water and sewer are increasing. As such, the WPCA has concluded that the 1994 Plan must be updated to reflect the actual and anticipated growth and options for extending public utilities to the existing sewer district thoroughly explored. In 2017, the Commission approved the Map amendment to create the Resort Commercial District along the western end of Rte. 2 just prior to Foxwoods Resort Casino. The new zone consists of approximately 350 acres of formerly residential land, and allows larger mixed-use residential/commercial and recreational developments that will certainly require public water and sewer. The WPCA recommend establishing a new Sewer District in this Zone to be serviced by the extension of the existing MPTN system. No water sampling or testing has occurred in this area, and a baseline should be established.

Required Tasks

1. Review 1972 and 1975 Engineering Reports (Appendix A & B)
 - a. Verify Drainage Districts (13)
 - b. Verify 1972 Sampling Sites (36)
 - c. Review the 1994 Plan revised list of sampling locations
2. Provide recommendations for additional sampling locations based on the list included in the 1994 Plan and development activity (actual and anticipated) since 1994.
3. Visual Inspection of Sampling Sites recommended
 - a. Perform water sampling and testing
 - Specific Conductivity Sampling
 - E-coli MPN Survey
 - Millipore Survey
 - b. Provide comparison with 1972 and 1975 Results
4. Establish and Identify Drainage Areas and New Sampling Sites in Resort Commercial Zone to establish a Baseline
 - a. Provide map and Location description of any new drainage areas and sampling sites

- b. Perform visual inspection of sampling site
- c. Perform water sampling/testing
 - Specific Conductivity Sampling
 - E-coli MPN Survey
 - Millipore Survey
- d. Evaluate results

Instruction to Bidders

1. Bid Submission

All bids are to be forwarded to the Selectmen’s Office, 40 Main Street, North Stonington, CT 06359 by July 16, 2021 at 1:00 P.M. at which time and place the bids will be publicly opened and read.

2. Sealed Envelope: Bids must be submitted on the attached form and submitted in a seal envelope clearly labeled: **WPCA - Water Quality Monitoring Program.**

3. Minimum Insurance Requirements.

The selected contractor shall agree to maintain in force at all times during which services are to be performed the following coverage placed with a company(ies) licensed to do business in the State of Connecticut:

General Liability*	Each Occurrence	\$1,000,000
	General Aggregate	\$2,000,000
	Products/Completed Operations Aggregate	\$2,000,000
Auto Liability*	Combined Single Limit	
	Each Accident	\$1,000,000
Umbrella* (Excess Liability)	Each Occurrence	\$1,000,000
	Aggregate	\$1,000,000
Professional Liability	Each Occurrence	\$1,000,000
	Aggregate	\$1,000,000

A certificate of insurance naming the Town of North Stonington as an additional insured shall be required commencing work.

Workers' Compensation and Employers' Liability	WC Statutory Limits	
	EL Each Accident	\$500,000
	EL Disease Each Employ	\$500,000
	EL Disease Policy Limit	\$500,000

4. Bid Award

The Town of North Stonington reserves the right to reject any and all bids that are not in the best interest of the Town. All bids must be valid for at least 60 days.

5. Questions

Address all questions to Selectmen’s Office selectmen@northstoningtonct.gov All questions must be submitted by July 7, 2021 and answers will be posted on the website. Respondent is responsible for verifying scope of work.