

November 9, 2022

REQUEST FOR PROPOSALS FOR IMPROVEMENTS TO TOWN OF STERLING MUNICIPAL WATER SYSTEM

The Town of Sterling, CT requests written proposals from licensed and qualified water system consultants and operators with offices or customers in the State of Connecticut to undertake a multi-phase water system maintenance and improvement program for the Town's small public water system. The Town owns and maintains a limited area of public water utility, with assistance and management from a private utility service provider. In consultation with that service provider, the Town recognizes that its overall system requires several tasks for maintenance and upgraded facilities. These items include:

Task 1: Water Chemical Feed Pump Replacement and Acquisition of Spare Pump Rebuild Kits

The CT Department of Public Health requires that all public water systems have replacement pumps available and ready for immediate replacement in case of chemical pump failures. The Sterling water system will therefore require removal and replacement of the three (3) chemical feed pumps, including three (3) spare pumps and pump rebuilding kits. These new chemical feed pumps will be connected to the existing injection lines and injection check valves. Specific scope for Task 1 includes:

- Purchase and delivery of six (6) peristaltic chemical feed pumps;
- Purchase and delivery of three (3) KOP rebuild kits;
- Removal of older chemical pumps and installation, start-up, and programming of replacement chemical feed pumps;
- Documentation of installation to CT Department of Public Health.

Task 2: Replacement of Bulk KOH Chemical Feed Line

The current Potassium Hydroxide Bulk Chemical feed line at the Town's water system treatment equipment building is in need of removal and replacement. The treatment equipment building includes chemical feed pumps and chemical day tanks along with bulk storage tanks. The current bulk storage piping has leaks and needs replacement. Aside from leaking when the tank is refilled, the rest of the fill piping is currently assessed as Scheduled 40 PVC, which presents safety and possible spill concerns. Piping should have been installed using CPVC materials. Tank vents will be piped outside the building. The new piping will use the location of the old piping, and will retain a cam and groove cap. Specific scope for Task 2 includes:

- Remove existing feed line piping and replace with CPVC fittings and new pipe; and
- Reattach storage tank covers.

Task 3: Atmospheric Water Tank ROV Inspection and Sediment Removal

Department of Public Health regulations require an inspection of all public water system atmospheric tanks every ten years. The decennial inspection of the Town of Sterling's 400,000 gallon atmospheric water tank was due during 2021 and is now overdue. An inspection and removal of accumulated sediment is anticipated to be accomplished by a remotely-operated vehicle (ROV), and will take place while the tank will be in service. The tank will not be drained for this inspection and sediment removal, and access for the ROV will be from the hatch located on the concrete tank. Specific scope for Task 3 includes:

- Conduct, by a Certified Tank Inspector, a ROV-based inspection of the atmospheric water tank, including chlorination of all inspection equipment prior to inspection;
- Removal of up to six inches (6") of accumulated sediment from the atmospheric water tank; and
- Submission of an Inspection Report to the Department of Public Health.

Task 4: Production Meter Flow Verification Testing

As part of a diversion permit granted by the Connecticut Department of Energy & Environmental Protection (DEEP) to the Sterling Water System, the system's production meters must be tested and calibrated annually. There are two meters that require calibration testing, and flow testing will take place while running the system's Well 1A, and flowing water into the distribution system. Specific scope of Task 4 includes:

- Conducting meter flow testing on Sterling water system, utilizing strap-on mag meters; and
- Preparation and submission of Flow Testing Report for Town review and submission to CT DEEP.

Task 5: Refurbishment of Well 1A

The Sterling Water System's Well 1A has been experiencing reduced water yield. In addition, mineral deposit buildup has been reducing flow capacity through the well screen, and customers have complained about higher manganese near the end of system service areas. As a result, Well 1A is in need of refurbishment. The Well will need to be taken out of service for a 1-2 week period of time during work, with Well 2 or Well 3 activated for this interim. Control testing will need to be conducted to ensure that wells will cycle automatically and properly. Follow up water sampling will be required on Well 1A before it returns to service. Specific scope of Task 5 includes:

- Testing of control system of Well 2 or 3 to ensure property automatic well cycling for period when Well 1A is offline;
- Removal, inspection, and reinstallation of line shaft turbine pump for Well 1A;
- Conducting of pre- and post-flow testing on Well 1A;
- Recording of pre-and post- project videos of the inside of Well 1A and screen, providing copies of video to Town;
- Refurbishment of Well 1A with mechanical and chemical treatment;
- Treatment of well wastewater before discharging water;
- Disinfection of well and equipment with 50 ppm solution and conducting bacteria sampling prior to returning Well 1A to service; and

- Provision of well cleaning report including all testing data.

Task 6: Water Customer Meter Replacement

Several individual residential and commercial water meters as part of the Sterling Water System are out of date and in need of upgrade. This task will ensure that all meters can be read using outside touch pads and have outside recorders. The Town water system has five additional commercial meters currently in stock but will require installation of these. The residential meters will need to be purchased prior to installation. Specific scope of Task 6 includes:

- Purchase and installation of twenty (20) 5/8" x 3/4" residential water meters and touch pad recorders;
- Purchase and installation of one (1) 2" meter with touch pad recorder;
- Installation of five (5) commercial meters with touch pad recorders;
- Replacement of meter wires as needed; and
- Provision of report of installation activity, including pre-and post-installation readings and product serial numbers.

Respondents should provide a statement of qualifications and scope of services with pricing based on this project's description, divided up by Task as detailed above. Any additional services that respondents believe are necessary based on the scope of services described should be included and detailed in the proposals. Selected respondent will be expected to post a bond in an amount and form acceptable to the Town to guarantee the performance of the installed improvements. Proposals will be rated on the following:

- Qualifications, relevant experience and proper licensing;
- Analysis of current water system needs and proposed solutions;
- Proposed equipment to be installed with labor and material costs; and
- Anticipated time frame for implementation of system maintenance activities.

Questions about this RFP should be directed to Joyce Gustavson at jgustavson@sterlingct.us by email only, no later than November 30, 2022. Answers to questions received will be posted by December 7, 2022 on the Town's website at <https://www.sterlingct.us/about-sterling/public-legal-notice-and-bids/>.

Sealed Bids clearly marked "Sterling Municipal Water System Improvements" shall be received until 12:00 p.m. on Wednesday, January 4, 2023 at the Office of the First Selectman, Sterling Town Hall/Municipal Building, 1183 Plainfield Pike, P. O. Box 157, Oneco, CT 06373-0157. The Town of Sterling reserves the right to accept or reject any and all bids.

Bids will be publicly opened and read at an open public meeting on Wednesday, January 4, 2023 at 6:00 p.m. in Room #15 at the Sterling Municipal Building by the Board of Selectmen.

The Town of Sterling will not reimburse from any expenses incurred in connection with this Request for Proposals (RFP) including, but not limited to, preparing the initial response and any additional information requested or travel expenses relating to any oral presentation. Please be advised that responses will be considered property of the Town, are matters of public record, and may be disclosed by Sterling after the awarding of a contract.

Confidentiality - If the Respondent believes that any information in its proposal should be treated as confidential that material shall be clearly marked. The Town shall endeavor to protect confidential material from disclosure to non-Town employees to the extent required by State or Federal law. In no event will the Town be responsible for the inadvertent disclosure of your response to this RFP.