

Kansas Department of Wildlife, Parks and Tourism

Solicitation for Design Services

Modifications to Raw Water Intake, ANS and Zebra Mussel Screening - Filtration Project

Milford Fish Hatchery, Geary County, Kansas

KDWPT is requesting engineering design services for the evaluation, assessment and construction of modifications to the raw water intake supply at the Milford Fish Hatchery. The intent of the project is to prevent the infiltration of aquatic nuisance species into the fish production surface water supply and to protect the waters of the State of Kansas from discharges associated with the Hatchery.

The successful applicant will be responsible for the collection of all pertinent field data, assessment of the current capacities of the existing water supply filtration equipment, assessment of existing electrical capacity and coordination with both field staff from KDWPT, representatives from potential filtration equipment suppliers and the electrical supplier. Prior to and following the collection of sufficient data, the consulting design team shall meet with agency staff to determine the scope and direction of the final design. Upon determination of the final design criteria, the consultant will then prepare plans, specifications and construction documents to take the project through the bid process, review of submittals and construction of the proposed improvements.

KDWPT has studied the problems associated with the introduction of invasive species into the water supply of the hatchery over the course of the past few years. Data from that study, along with minimum design requirements will be given to the successful design firm upon award of the design contract. The scope of work determined so far shall include, but may not be limited to, the following items:

- Condition assessment, recommendations for modification, enhancement of the underwater screen intake and water supply line to the existing pump station.
- Design of a replacement initial disk screen (40-micron) located in the pump house to protect the water supply pumps from problems associated with ANS.
- Assessment and coordination with electrical supplier, of electrical capacity to the pump station and new filtration building. Design of recommended upgrade for both electrical supply and pump control operation.
- Design of a filtration building including tie-in to existing 24" raw water supply line and the design of a water supply line manifold to allow for additional modular filtration units as needed.
- Coordination with the filtration equipment supplier and incorporation of that equipment into the new filtration system. The proposed filtration units should provide 25-micron filtration of the raw water which will effectively eliminate problems associated with zebra mussel infestation.
- Provide any and all expertise associated with the design and construction of all relevant components of the above listed items. Provide any necessary environmental permitting associated with the project. Provide code requirement documentation and incorporation of a code footprint into the construction plans.

Contacts for the project are as follows:

Harold Jagerson, Milford Hatchery Manager (785) 238-2638

Jason Goeckler, Aquatic Nuisance Species Coordinator (620) 342-0658

Chad Grisier P.E., KDWPT Engineering Services (620) 672-0836

Dennis Glascock, KDWPT Engineering Services Project Manager (620) 672-0716