



Prince William Sound
Aquaculture Corporation
DEVELOPING SUSTAINABLE SALMON FISHERIES
FOR ALASKA AND THE WORLD

July 17th, 2020

PWSAC Request for Qualifications – Domestic Wastewater Upgrades

Prince William Sound Aquaculture Corp.
500 First Street
Cordova, AK 99574

Dear Interested Contractors,

The Prince William Sound Aquaculture Corporation (PWSAC) based in Cordova, Alaska is seeking proposals for the design, purchase, and installation of three (3) domestic wastewater system and/or upgrades of the current for remote hatcheries within Prince William Sound. The system(s) will be installed at Main Bay, Wally Noerenberg and Armin F. Koernig hatcheries and will incorporate wastewater collection from the bunkhouse, hatchery, and permanent staff housing. It is the responsibility of the winning contractor to provide all designs, permit submissions (including ADEC plan review), construction materials, and contractor schedule while performing the predetermined work plan. Installation at the site will be completed in coordination with ADEC and as otherwise set by PWSAC (Owner). Construction to be completed by September 30th, 2022.

A bid packet and specification sheet are included in with this invitation letter. Due to the ongoing concerns of CoV19, the winning submitter will need to sign an acknowledgement letter and abide by distancing protocols and PPE requests as set by PWSAC prior to executing the work.

The awarded contractor is responsible for all materials delivered to the facility and removal of determined excess at the end of the project. Any hazardous materials must be declared prior to arrival on site.

Proposals for the PWSAC Domestic Wastewater Upgrades must be received at PWSAC's office by 5:00pm ADT, Friday July 31st, 2020 via fax 907.424.7515, email casey.pape@pwsac.com, mail PO BOX 1110 Cordova AK, 99574, or hand delivered to the PWSAC office 500 First St. For additional information, please email or call 907.277.4277 ext. 6. Bid proposals will be kept confidential. PWSAC reserves the right to reject any and/or all bid proposals.

Thank you for your interest and I look forward to hearing from you.

Sincerely,

Casey Pape
Operations Manager PWSAC

**DEVELOPING SUSTAINABLE SALMON FISHERIES
FOR ALASKA AND THE WORLD**

P.O. Box 1110 · Cordova, Alaska 99574
P. 907 424 7511 · F. 907 424 7514

www.pwsac.com

PWSAC Domestic Wastewater Upgrades Project Specifications Sheet:

System Size	3 each @ 1,500-2,500 (tbd by bidder)
Operated Year-round	Yes
Staffing (year-round occupancy)	6-10
Seasonal Occupancy	Up to 25 (60 days or less)
System Type	Septic Tank with ADEC Secondary Treatment Or otherwise identified alternative
Currently Discharging?	Yes
Type of Discharge	Marine Outfall (at all facilities)
Site Characteristics	
Climate Type	Temperate Rain Forest
Annual Precipitation	+ 60 in/ year
Temperature	10°F – 80°F
Elevation	+/- 0ft LMWL
Soil Characterization	Blasted Bed Rock (Fill Rock)
Permitting Required	Yes
Type	APDES or UIC
Locations:	
Main Bay hatchery	60.51915621, -148.09253938
Wally Noerenberg hatchery	60.79930601, -148.08879218
Armin F. Koernig hatchery	60.05021702, -148.06698961
Transportation	To be provided by PWSAC landing craft

Domestic Wastewater Upgrades Installation

The purpose of this project is to provide a domestic wastewater treatment or injection system compatible with three (3) private/ state hatcheries within Prince William Sound. Each hatchery is “off-grid” and is presently powered by a power plant of either diesel fired or hydropower turbine generator(s). All facilities are staffed year-round with up to twenty-five (25) personnel during the peak of the adult returning salmon season. Winter staffing of permanent and seasonal staff of 8-14 is most common. Most facilities are open to the public (COVID19 excluded), however, there is little demand for public bathroom use.

The project includes the following tasks:

1. Site Visits and Scoping: Travel to each facility to assess current system and evaluate needs of site including future operating plans and facility upgrades. Assess soil, existing waste collection system,

power and fuel usage, available lands and rolling stock applications. Consult with site staff on maintenance and possible siting of the new system(s).

2. Design: The development of drawings illustrating the structural, collection and electrical system configurations.
 - The structural design shall include all framework, supports, and fastening methods and sampling ports for the treatment system. It shall include any modifications required to the buildings where the new system will integrate with old underground lines and or existing plumbing and sewer lines.
 - Evaluate options for abandoning the current outfalls. Flow data, layout, and facility drawings to be provided by Owner. Obtain additional data as needed and as approved by the Owner.
 - Submit all drawings for Owner and Engineer review.
3. Product Documentation: Provide product data sheets with descriptive information noting model numbers and accessory components furnished.
4. Permitting Submission and Design Review: Submit (PWSAC) approved designs and permit application to ADEC and plan review by December 1st, 2020.
5. Construction: Furnish and install all components, tanks, filtration, sterilization, circuits, and hardware to provide a complete and operational system. Comply with all pertinent codes adopted by the State of Alaska. Utilize licensed journeyman electricians in accordance with state statute for all electrical work. Provide all sample/testing, operations training, and maintenance instruction.

An estimated 1,500 – 2,500 gallons of water, average, are consumed by the staff daily. Provide a sewer septic system that will offset 120 percent, or better, of the present peak daily consumption. As a minimum, provide the following equipment:

1. Primary septic tank for collection of domestic wastewater for up to twenty-five (25) personnel (permanent housing and bunkhouse).
2. Secondary treatment settling tank and aeration chamber. All mechanical and serviceable components to be easily accessible from top with simple tools and maintenance needs.
3. Clarification and sterilization (on marine discharge systems).
 - Controls and Monitoring: Remote digital interface, ethernet monitoring, and battery monitoring.
4. Provide disconnects, circuit protection, and panels as required by the National Electrical Code and the system components.

Permitting Timeline:

December 1st, 2020 – Submit Plans to ADEC Plan Review

September 30th, 2021 – Substantial progress on Install at Wally Noerenberg and Armin Koernig

September 30th, 2022 – Substantial progress on Install at Main Bay

October 2020 – NOI review and permits to operate for all facilities

- **Domestic Wastewater Upgrades: The deadline for receiving completed bids is at 5:00pm ADT, on Friday July 31st, 2020**

PWSAC Reserves the right to reject any or all bids.

Company: _____

Address: _____

Telephone: _____

Fax: _____

Email: _____

Authorized company official: _____

Title: _____

Signature of authorized company official: _____

Date Submitted: _____