



November 7, 2022

Goble Sampson Associates, Inc.
6355 Ward Road, Suite 200
Arvada, Colorado 80004
USA

Attn: Josh Queen

RE: BENNETT WWTF CO
Exceptions/Clarifications

Josh,

Please see the below comments for the Bennent WWTP CO project. Please let us know if there are any questions.

1) Reference: Section II. Scope of Work Part B. Submittals

Within 45 calendar days after Notice of Award (or based on an accepted time proposed by the Supplier in the Contract Schedule Form of this RFP), the Supplier shall submit to Owner for approval complete shop drawings and complete technical submittals.

Aqua's Exception/Clarification

Aqua Aerobic Systems will be providing both the biological and membrane portions of the MBR process. Please adjust the above to read "Within 8-10 weeks (56-70 calendar days) after Notice of Award..."

2) Reference: Section 465349-4 2.2.A

Peak Hour Flow (PHF)

We provided both peak hourly flow and peak daily flow. I suggest we respond that a 24-hour high flow is what we call peak daily flow.

Aqua's Exception/Clarification

Please change the Peak Hour Flow to say Peak Hydraulic Flow as the peak flow can last up to 24 hours.

3) Reference: Section 465349-5 2.3.A.2

Evidence that the Supplier has at least five (5) operating installations where the type of membrane system proposed for this project has been in successful operation for at least five years with similar design, operational, and effluent requirements.

Suggest we request they identify how long plants have been in successful operation,

Aqua's Exception/Clarification

RFP Section I.C specifies the five plants be provided within the last 5 years, not operating for at least 5 years - please clarify which is correct.

4) Reference: Section 465349-4 1.3.A

If system is incapable of processing average or peak flow rates during the warranty period, the membranes shall be replaced and installed by the Supplier at no cost to the Owner. This information is required to estimate the 20-year life cycle costs associated with membrane replacement.

Aqua's Exception/Clarification

Please change the above sentence to read: "If the system is incapable of processing average or peak flow rates during the warranty period, the membranes shall be replaced or added to, with the membranes installed by the Supplier at no cost to the Owner."

5) Reference: Section 465349-9 3.1.A

Supplier shall conduct factory testing and verification of equipment prior to shipment. Testing shall demonstrate correct alignment, smooth operation and freedom of excessive vibration and noise of all equipment. Test period shall demonstrate accurate measurement of sensors and function of run sequences.

Aqua's Exception/Clarification

Only mechanical equipment will go through simple mechanical testing. The remaining equipment will be tested after installation. Our testing will include QA and QC testing.

6) Reference: Section 465349-9 3.2.A

Start-up services shall be provided by the supplier of the entire system, as well as OEMs of the following (at a minimum):

Aqua's Exception/Clarification

Aqua Aerobic Systems service technicians are qualified to start up all equipment provided by Aqua Aerobic Systems. No equipment vendors will be on-site during startup.

7) Reference: Section 220513-3 2.2.A

Unless specified otherwise, motors shall be suitable for continuous operation at an elevation of 0 to 3000 feet above mean sea level.

Correct
this

Aqua's Exception/Clarification

Please revise the above to read "...elevation of 0 to 5500 ft above mean sea level."

8) Reference: Section 465349-7 2.4.3.b

Disinfection, RAS and WAS pumping from MBR tank to bioreactor and sludge holding tank, respectively, and sludge dewatering. Supplier will supply design criteria, including pump duty points, for RAS and WAS pumps.

Aqua's Exception/Clarification

Aqua Aerobic Systems will provide feed pumps to pump the bioreactor contents to the membrane trains and pneumatic valves for gravity-flow of RAS to the bioreactors and WAS to the sludge holding tank. Please revise the paragraph to state: "Disinfection, RAS and WAS pumping from the MBR tank to bioreactor and sludge holding tank, respectively (if applicable), and..."

Proposals may indicate
if RAS and/or WAS
pumps are necessary

9) Reference: Section 465349-7 2.5.A

Supplier shall provide membranes and all associated equipment including but not limited to membrane module frames, including any necessary tank grating/planking supports, permeate piping...

Aqua's Exception/Clarification

AA may choose for a subcontractor to provide grating/planking

Aqua Aerobic Systems does not provide grating/planking support or permeate piping outside the membrane tanks. Please revise this paragraph to state: "Supplier shall provide membranes and all associated equipment including but not limited to membrane module frames, including any necessary frame supports, in basin permeate piping..."

Sincerely,

Nicholas Fortsas
Project Application Engineer

CC: Aqua-Aerobic Systems, Inc.
Kelly, Scott
Aqua-Aerobic Systems, Inc.
De Los Santos, Manuel
Aqua-Aerobic Systems, Inc.
Holland, David
Aqua-Aerobic Systems, Inc.
Villacorta, Sarah