



State of Alaska
Department of Environmental Conservation
Village Safe Water Program

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December 6, 2021

To: Vendor List

Re: Amendment 4
ITB 22-VSW-TLT-032
Packaged Water Treatment System
ITB Due Date: December 8, 2021 @ 10:00 AM AST

The following are vendor questions and the department's response:

1. Vendor: In the past week we have taken a closer look at the process requirements listed within the specifications, as well as reference to the 2007 Water Treatment Study report prepared by CE2 Engineers, Inc. We have concerns that the WesTech Water Boy equipment will be able to produce finished water to the quality goals listed in specification section 2.2 D. Our concerns are rooted in the influent raw water contaminants that are well above the MCL - such as TOC (47.1 mg/L), True Color, Iron and Manganese. We understand the 2007 Water Treatment Study showed good results for the removal of Iron, Manganese (but not to MCL), color, and Arsenic. However, the 2007 study was executed with some different process parameters when compared to the Water Boy process. Some of these parameter variances include total detention time, heated water temperature, and configuration/shape of flocculator paddles. Additionally, there are comments within the 2007 report that bring into question the validity of the removal data for some of the constituents.

Considering this, we are not certain the Water Boy equipment will work to the levels required for this particular project, and as such we will not be able to provide a process performance guarantee with our bid. Also, WesTech does not have ample historical data on raw waters with

similar influent characteristics as those listed in the Tuluksak specifications. Therefore, we cannot provide parameter values for influent water to which we know the Water Boy can meet the effluent goals. We know the Water Boy will reduce Iron, Manganese, Arsenic, Color, and TOC. But we don't know to what extent on this temperature and consistency of water at Tuluksak.

We want this project to be a successful project for both the end user and for WesTech. Considering this, WesTech will gladly provide a bid for our standard Water Boy equipment, but without a process performance guarantee. We understand this is not per the specification requirements, and if you decide to refuse WesTech's bid we will respect your decision and thank you for the opportunity to review this ITB. If additional discussion is desired, then we would be happy to discuss this in greater detail with you.

Department: The following changes are required:

- a. 46 07 13, Paragraph 1.1, A: Replace "20 gpm" with "25 gpm".
- b. Revise and add to end of paragraph 46 07 13, Paragraph 1.3, C.11: "Manufacturer's certificate is required to indicate maximum influent water quality conditions where system performance can meet required finished water quality goals and note any exceptions to design criteria."
- c. Revise and add to the following 46 07 13, Paragraph 2.3, sub-paragraph A.2. a. – g, and add new sub-paragraph j.:
 - a. Arsenic: 31.3 to 36.3 µg/L.
 - b. Iron: 5.54 to 6.99 mg/L.
 - c. Manganese: 0.331 to 0.719 mg/L.
 - d. Total Organic Carbon: 1.67 to 47.1 mg/L.
 - e. Dissolved Organic Carbon: 1.66 to 44.8 mg/L.
 - f. True Color: 65 to 90 PCU.
 - g. pH 7.06 to 7.4.
 - h. No change.
 - i. No change.
 - j. "Additional raw water quality samples are being collected in November 2021-January 2022 and will be provided to the successful bidder as they are available."
- d. Delete in its entirety 46 07 13, Paragraph 2.7, C.

Bidders must acknowledge this amendment on Submittal Form A – Bidder Information. A bid that doesn't acknowledge this amendment may be found non-responsive and rejected.

Evan Patterson



Procurement Specialist