



May 16, 2023

Marios Georgiou, PE  
Conсор Engineers  
345 Bobwhite Court, Suite 230  
Boise, Idaho 83706

**Re: WesTech Treatment Plant Expansion, Plan Review #2023-60, City of Ontario,  
PWS ID #4100587  
Conditional Approval**

Dear Mr. Georgiou:

Thank you for your submittal of plan review information to the Oregon Health Authority's Drinking Water Services (DWS). On April 21, 2023, electronic copies of the plan drawings, specifications, a project narrative and diagram were received. On April 25, 2023, the plan review fee of \$3300 was received. On May 1, 2023, a hard copy of the drawings was received. The project consists of installing a WesTech Trident Model ½ TR-840A Custom train to the existing WesTech Claricell contact adsorption clarifier treatment plant, along with the needed controls, piping, valves and appurtenances, and a new potassium permanganate diaphragm metering pump. This third 2-MGD capacity train will increase the total capacity of the plant to 6-MGD. The plans have been reviewed and are approved based on meeting the following condition:

1. Only materials designed for potable water service and meeting NSF Standard 61: Drinking Water System Components or equivalent shall be used in those elements of the water system which are in contact with potable water.

I also have the following comments:

- I note that the silica sand and garnet media depths are less than in the two existing trains. However, the proposed media consists of smaller size particles to maintain a comparable L/d ratio to the existing trains and is anticipated to provide similar performance.
- I note that a Hach TU5300sc turbidimeter will be installed to measure the individual filter effluent (IFE) from the proposed filter. The combined filter effluent (CFE) of the three filters can continue to be reported on the monthly reports.

- An evaluation of the Major Unit Processes confirmed they match the existing trains, so the plant will continue to be granted removal credits of 2.5-log for *Giardia* and 2.0-log for *Cryptosporidium*.
- A new tracer study must be conducted when the combined flows out of the old plant and the WesTech plant exceed 5720 gpm. It is my understanding that the pumping capacity out of the clearwell will need to be increased for this to happen. A plan for the tracer study must be submitted for review before it is conducted.
- A filter profile must be conducted after backwash at least quarterly.

Upon completion of the project, please verify in writing that the construction was completed according to the submitted plans. If substantial changes are made, a set of record (as-built) drawings must be submitted. Until it is verified that the project meets the construction standards in OAR 333-061-0050 and Final Approval is granted for the project, the new facilities are not approved for use.

If you have any questions or would like this in an alternate format, please feel free to call me at (541) 966-0900 or email at [william.h.goss@oha.oregon.gov](mailto:william.h.goss@oha.oregon.gov) .

Sincerely,



William Goss, PE  
Regional Engineer

c: Julie Wray, OHA–DWS, Portland, OR  
Joe Foote, PE, Consor Engineers (pdf copy only)  
Casey Mordhorst, Jacobs/City of Ontario (pdf copy only)  
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