
TOWN OF EASTEND
WTP, RAW WATER RESERVOIR & INTAKE UPGRADES

BCL File #103.02-7B
September 9, 2020

General Progress to Date

In August, project progress included:

- Completed concrete pours of the reservoir columns.
- Completed shoring and formwork for the top slab. Concrete pour was completed on September 8 (after the cut-off for progress payment).
- Completed the columns for the loading dock.
- Installed the effluent pumping station (fibreglass tank).
- Installed the river intake including piping, air scour line and screen.
 - Intake line was installed by directional drilling, but a cofferdam was constructed to dewater the river at that location and set the intake into its exact place.
 - Cofferdam and installation plans were coordinated with Water Security Agency, Conservation Officers and Saskatchewan Ministry of Environment (Fish, Wildlife and Lands Branch).
- Installed the reservoir intake structure and intake line.
- Installed the reservoir and river pumphouse structures including the bottom slabs and most of the walls up above the water table.
- Completed the topsoil / overburden removal of the raw water reservoir (pond site).
- Imported 7,400 cubic metres of fill material to build up the berms and access road.

During the next work period (month), construction is expected to include rebar and concrete placement of the pony walls and loading dock. After the top slab has cured for a few days, the shoring and formwork will be removed, and the reservoir hydrostatic test will be completed. Earthwork for the earthen reservoir will continue leading up to installation of the liner material before winter.

Progress payment for this month also included payment for the process treatment equipment shop drawings. Westridge is eligible for 15% of the treatment equipment cost at this stage which covers their internal design work and allows all the materials to be ordered. This added a cost of \$217,500.00 to Progress No. 4 in addition to the above-mentioned work.

Progress Certificate

Progress No. 4 is certified and represents work completed to August 31, 2020. Westridge Construction Ltd. is eligible for payment in the amount of \$1,006,094.25.

Westridge provided their required WCB clearance and Statutory Declaration paperwork along with their invoice.

Payment in the amount of \$100,609.43 should also be made to the holdback trust account, as required by the Builder's Lien Act. Total holdback to date should be \$199,739.73.

Construction Schedule

An updated construction schedule was provided by Westridge on August 5, 2020. Based on the submission, Westridge appears to be on schedule.

Change Order #1

Based on the Town's approval at their August Council Meeting, a Change Order was issued to Westridge Construction which included some changes to the air scour and backflushing procedures at each of the reservoir and river intake structures. The extra cost for the changes is \$6,773.50 plus taxes.

Testing

Since the last report, concrete tests were completed on the walls and columns of the reservoir. All concrete testing received to date meets or exceeds the specifications. An updated summary will be forwarded to the Town next month.

Shop Drawings

Westridge has provided 45 shop drawing submittals to date, with some that are still in review.

Shop drawings that have been reviewed since the last project engineer's report are:

Transmittal	Description	Status
41	Generator Mechanical	Reviewed & Returned
42	Motor Control Centre	Reviewed & Returned
43	Harmonic Filter	Reviewed & Returned
44	Wiring Devices	Reviewed & Returned
45	Baseboard Heater & Fan	Reviewed & Returned
46	PLC & Instruments	Reviewed & Returned
47	Lights & Heater	Reviewed & Returned
48	Generator Mechanical	Under Review

Photos



Reservoir intake structure installation.



Effluent pumping station installation.



River intake and air scour line installation in riverbed.



Removal of cofferdam to submerge intake structure.



Removal of cofferdam and material from river bottom.



Riverbank vegetation restoration work underway.



River intake structure and intake line.



Connection between reservoir intake pumphouse and water treatment plant.



Imported material to build up berms of the raw water reservoir (pond).



Excavation and earth moving from reservoir intake and pumphouse.



Top slab rebar and drainage piping inspection.



Top slab rebar and drainage piping inspection.

Prepared by: Matthew Feige, P.Eng.