

**TOWN OF EASTEND  
WTP, RAW WATER RESERVOIR & INTAKE UPGRADES**

BCL File #103.02-7B

July 8, 2020

**General Progress to Date**

In June, project progress included:

- Forming, rebar tying and placement of the bottom reservoir slab.
- Forming and rebar tying of the reservoir walls and columns.
- Wall concrete pour has been set for Tuesday, July 14, 2020.

During the next work period (month), construction is expected to include placement of the reservoir walls and columns and beginning formwork of the top slab. The underground piping and rough excavation of the raw water reservoir (pond) was delayed slightly but is also set to begin in July.

**Progress Certificate**

Progress No. 2 is certified and represents work completed to June 30, 2020. Westridge Construction Ltd. is eligible for payment in the amount of \$376,123.50.

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

Payment in the amount of \$37,650.00 should also be made to the holdback trust account, as required by the Builder's Lien Act. Total holdback to date should be \$46,475.00.

**Construction Schedule**

A preliminary construction schedule (up to and including building close-up) was provided by Westridge on May 21, 2020. Based on the submission, Westridge appears to be on schedule.

**Shop Drawings**

Westridge has provided 29 shop drawing submittals, with some that are still in review. No input is required from the Town at this time.

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

<b>Transmittal</b>	<b>Description</b>	<b>Status</b>
13	Underground Pipe Fittings	Reviewed & Returned
14	Top Slab Rebar	Reviewed & Returned
15	FRP Grating	Reviewed & Returned
16	Miscellaneous Metals	Reviewed & Marked to Resubmit
17	Access Hatches	Reviewed & Returned
18	(Void)	Ignore
19	(Void)	Ignore

**Shop Drawings Continued:**

Transmittal	Description	Status
20	Exterior Pad Rebar	Reviewed & Returned
21	Pumps	Reviewed & Returned
22	River Intake Screen	Reviewed & Returned
23	Vulcan Hoist	Reviewed & Returned
24	Plumbing Fixtures	Reviewed & Returned
25	Unit Heaters	Reviewed & Returned
26	Fans	Reviewed & Returned
27	Dampers & Louvres	Reviewed & Returned
28	Trench Drains	Reviewed & Returned
29	Roof Trusses	Under Review (Structural)
30	(Void)	Ignore
31	Wall Formwork	Reviewed & Returned
32	Column Forms	Reviewed & Returned
33	Treatment Process Equipment	Under Review

**Testing**

Since the last report, concrete tests were completed on the bottom slab of the reservoir. The concrete cylinders were tested at 7 days to project whether the full 28-day cure will meet the 35 MPa specifications. Typically, the concrete should be at least 60-70% strength after 7 days and appears to be on track to meet the specifications. Results are provided below and 28-day tests will be reported once received.

Concrete	7-Day Break Cylinder 1	28-Day Break Cylinder 2	28-Day Break Cylinder 3	Comments
Bottom Slab #1	30.9 MPa	TBD	TBD	88% of required strength
Bottom Slab #2	32.2 MPa	TBD	TBD	92% of required strength
Bottom Slab #3	28.8 MPa	TBD	TBD	82% of required strength
Bottom Slab #4	30.2 MPa	TBD	TBD	96% of required strength
Bottom Slab #5	32.1 MPa	TBD	TBD	92% of required strength
<b>SPECIFICATIONS</b>	<b>N/A</b>	<b>35 MPa</b>	<b>35 MPa</b>	

**Photos**



Bottom slab rebar inspection – overall view.



Bottom slab rebar inspection – sump boxes, wall dowels and pipe penetrations.



Bottom slab concrete pour underway – trowel finishing.



Bottom slab concrete pour underway – vibration and finishing work.



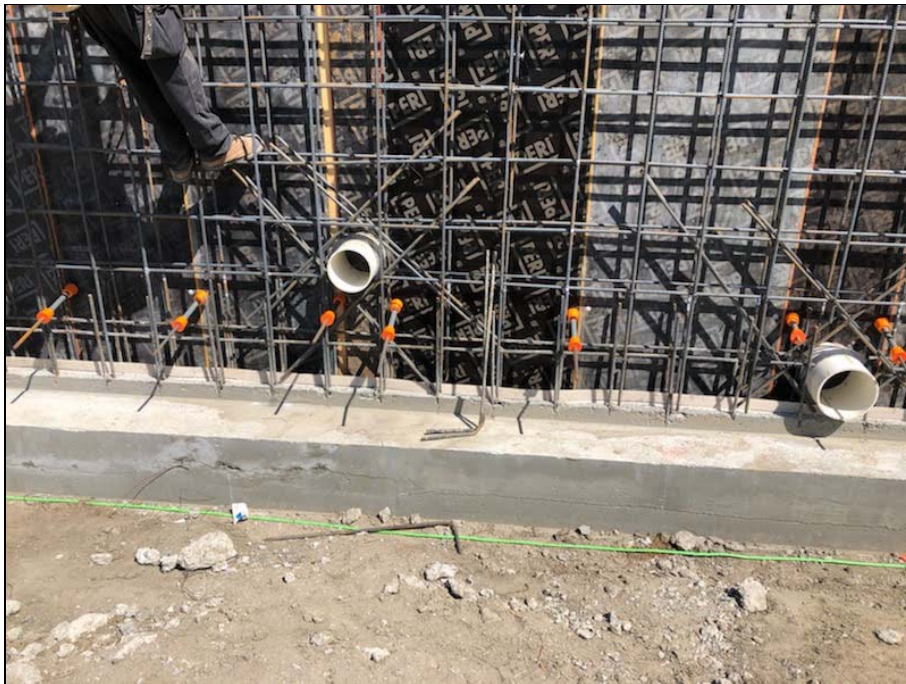
Bottom slab concrete pour – completion.



Wall rebar and formwork inspection – interior walls.



Wall rebar and formwork inspection – exterior walls.



Wall rebar and formwork inspection – wall sleeves and extra rebar.

Prepared by: Matthew Feige, P.Eng.