



ITEM REPORT UTILITIES COMMISSION

Agenda Date: 6/8/2022
Agenda Section: Information Only

Department Origination: Public Works

Agenda Item: Water Treatment Plant Improvements Project Monthly Update

Approval Required: No Action Required

BACKGROUND

On March 16, 2021, the City retained the services of SEH to design a reconstruction of the City's existing water treatment plant filter (WTP) underdrain system. The project was necessary because the old filter underdrain system became fouled with filter media, resulting in physical failure of the underdrain system in all four (4) of the WTP filter cells. Through extensive investigation, it was determined that the existing underdrain system could not be salvaged and needed to be replaced with a new system.

Work Complete Since Last Update:

- Biweekly construction progress meetings continue to be held on site at the WTP.
- The plant continues to produce water for customers.
- Hach DO Sensor start-up and operator training.
- Thul concrete crack injected the Filter Wall leaks.
- Fresh Blast applied second coat to the floor of the Filter Room and coated the WTP hallway, post crack injection (except for the remaining leak location) and have begun coating of the walls and floors in the Filter Face Pipe Gallery.
- Fresh Blast has been completing paint touch ups:
 - Water heater vents, condensate drain, and pipe insulation.
 - MAU-2 duct inlet.
 - Behind exit/emergency lights.
 - New air scour valve.
 - MAU-4 ductwork and equipment pads.
- NPC, Holden, Fresh Blast, City staff, and SEH worked on punch list items including, but not limited to, paint touch ups, weather stripping, drawings, and labelling.
- Vessco training on pneumatic and electrical actuators.
- NPC, SEH, and City staff verified the troughs in all four (4) filters are level.
- NPC has cleaned exterior grounds and seeded the areas requested by the City.
- Exterior Filter Room door was repaired by NPC.
- O&M manuals have been reviewed by SEH upon receiving them from NPC. Upon final approval, hard copies have been brought to the plant and electronic copies have been shared with the City.
- SEH and City staff have worked together to re-set filter inlet weir elevations to more evenly split influent flow to each filter in order to even out filter run times between the filters.

Work Scheduled:

- Punch list completion.

Project Schedule Changes: None. The project has reached substantial completion and final completion is schedule for June 3, 2022.

Project Budget Update:

- Project Budget (amended at February 15, 2022 City Council Meeting): \$2,195,360
 - Construction Contract: \$1,598,000 (including \$50,000 Owner’s Allowance)
 - Contingency: \$319,600
 - Engineering: \$185,050
 - SEH: \$176,050
 - AE2S: \$9,000
 - Soft Costs: \$79,900
 - LMCIT Required Full-Time Inspection (after 7/15/2021): \$12,810 LMCIT (included in SEH Amendment No. 2)
- Contingency Items
 - Engineering Amendments:
 - SEH Amendment No. 1: \$100
 - SEH Amendment No. 2: \$26,723.64 (not including \$12,810 LMCIT above)
 - AE2S: \$49,475
 - Change Order No. 1: \$208,194.54
 - Change Order No. 2: \$49,163.19
 - Change Order No. 3: \$27,276.40
 - Change Order No. 4 (in progress):
 - Crack Injection Time & Materials Overage: \$483.28
 - Detention Basin Coatings Removal: \$1,689.96
 - Backwash Orifice Plate Relocation \$8,666.99
 - Filter Face Room Coatings: \$18,338.84
 - Unused Owner’s Allowance Adjustment: (\$47,449.64)
 - Outstanding Changes:
 - SEH Fee Amendment No. 3: \$25,000
 - Misc. Costs: \$1,015.25
- Contingency Remaining (estimated): (\$49,324.94)
- Estimated Total Budget Remaining: (\$49,324.94)

FINANCIAL IMPLICATIONS

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STAFF RECOMMENDATIONS

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COUNCIL ACTION REQUESTED

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