



WATER PURIFICATION PLANT EXPANSION



# NEWPP Expansion Project MONTHLY STATUS REPORT



February 2022

## KEY PERFORMANCE INDICATORS (KPI)

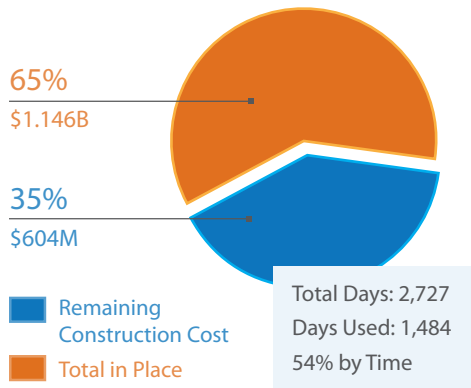
Status through February 2022

KPI	Description	Target*	Status	Trend (from last update)	Notes
Phase 1 Completion	Phase 1 (80 MGD) Substantial Completion date	Feb. 20, 2023	●	↑	HWT Progress Schedule forecasts a 3/18/23 completion (-27 days float).
Phase 2 Completion	Phase 2 (240 MGD) Substantial Completion date	July 23, 2025	●	↑	HWT Progress Schedule forecasts a 8/20/25 completion (-29 days float).
D-B Financial Performance	D-B Authorized Amount vs. July 2019 Budget	\$1.765B	●	▬	Expenditure status based on base GMP and other amounts as defined in Exhibit F of Amended and Restated Agreement.
Safety	Number of reportable events	0	●	▬	6.130M hours to date. 17 OSHA recordable incidents. 0 lost time incidents.

● Actual Ahead of Target  
 ● Actual Nearing Target  
 ● Actual Behind Target  
 ↑ Status Improved From Last Period  
 ↓ Status Declined From Last Period  
 ▬ Same as Last Briefing

\*Includes days added via Change Order for unforeseen conditions.

## CONSTRUCTION STATUS\*



\*Earned value based on current Design-Builder amount. Schedule based on duration from EWP 1 through Phase 2 Substantial Completion.

## M/WBE STATUS

SUBCONSULTANT PARTICIPATION - HWT\*

M/WBE FIRMS – 14.6%

HWT – 85.4%

\*As reported on COH OBO B2G contract audit summary.

SUBCONSULTANT PARTICIPATION - PATC\*

M/WBE FIRMS – 28.9%

CAROLLO – 71.1%

\*As reported on COH OBO B2G contract audit summary.

Percentages based on amount paid through Feb. 2022

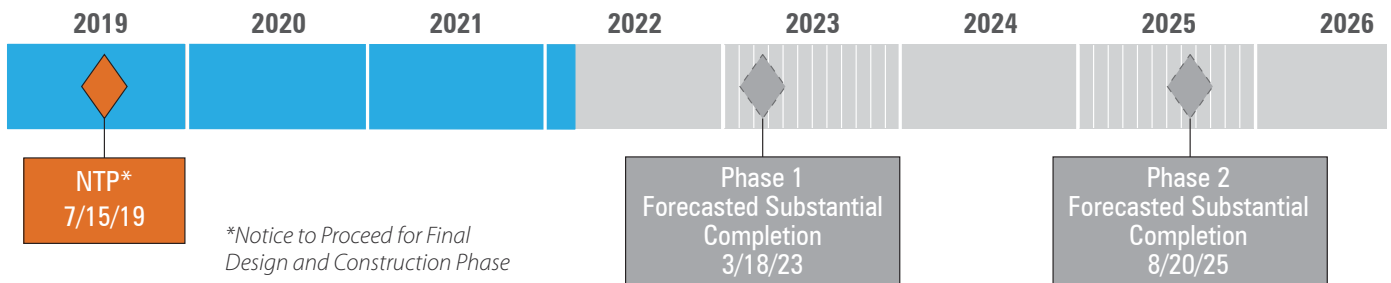
## BUDGET SUMMARY

Status through invoice dates listed below.

	Budget <sup>1</sup>	Authorized Amount <sup>2, 9</sup>	Invoiced to Date <sup>3</sup>	Invoice Date/ % Invoiced <sup>3</sup>
Design-Builder (Houston Waterworks Team) <sup>4</sup>	\$1,765,532,834	\$1,750,704,627	\$1,146,124,722	January 2022/65.5%
Project Advisor/Technical Consultant (Carollo Team) <sup>5</sup>	\$95,759,349	\$89,520,497	\$55,146,398	January 2022/61.6%
Outside Legal (Hawkins Delafield and Wood)	\$2,131,590	\$1,931,590	\$1,591,995	July 2019/82.4%
City/Other <sup>6</sup>	\$21,022,642	\$21,022,642	\$16,783,263	June 2021/79.8%
Management Reserve <sup>7</sup>	\$88,243,764			
<b>TOTAL<sup>8</sup></b>	<b>\$1,972,690,179</b>	<b>\$1,863,179,356</b>	<b>\$1,219,464,378</b>	

- Budget as established July 2019.
- Equals budget plus executed change orders/amendments less non-approved allowances less non-utilized contingency as of reporting date.
- Sum total of approved invoices and City recovery costs as of Monthly Report issuance. Percentage = Invoiced/Authorized Amount.
- Original budget equals initial contract amount + amendments 1-8, including allowances and contingency.
- Original budget equals initial contract value + amendments/appropriations 1-6, minus adjustment per Cash Call #1.
- Includes City Recovery, mitigation costs, and other miscellaneous items.
- Owner's contingency used for funding approved change orders and other expenditures within Authorized Amounts column.
- Does not include Houston \$75M reserve for 425 MGD rating work.
- Does not include Subcontract values above \$20M allocation in BOP Sub-Alliance #9; funds are currently in dispute.

## SCHEDULE STATUS



## NOTEWORTHY ACCOMPLISHMENTS

- **Central Plant:** Ongoing install access ramp facility 281 Filter Module 1; ongoing masonry and structural steel and pipe install facility 282 Filter Module 2; install HVAC facility 291TPS; ongoing install of process mechanical piping facilities 311 and 312. Ongoing F/R/P concrete work facilities 313, and install SH metal tank and equipment pads facility 314.
- **North Plant:** Ongoing structural, building, mechanical, and electrical work all facilities.
- **Site Civil:** Ongoing install overflow channel.
- **Admin & Maintenance Buildings:** Ongoing installation of carper and stair tile.
- **LREQ:** Ongoing install of storm culvert between facilities 601/602 and ongoing interior wall finish facility 602.
- **Yard Piping:** Ongoing installation of air gap system 96-inch OZW, 96-inch FW and 60-inch, and initiated construction of chemical injection vault facility 402.
- **South Plant:** Ongoing tank fill GST 361; terminated power LCP and MCC facility 510; install of centrifuge feed pumps, and ongoing install process mechanical and electrical facility 520 Dewatering Building; ongoing install of lighting and electrical and precast walls facility 401 HSPS.
- **Substation and Site Electrical:** Completed grounding facility 401; ongoing cable install facility 520.

### 3-MONTH LOOK AHEAD

- Complete performance testing of raw water pumps at the Intake Pump Station - *ongoing through April*
- Construct stormwater detention basin at Intake Pump Station - *April through June*
- Complete the raw water pipe corridor storm sewer crossing and chlorine dioxide piping installation - *ongoing through May*
- Ready Administration and Maintenance Building for Substantial and Final Completion - *ongoing through June*
- Continue focus on chemical feed and ozone systems installation for Phase 1 North Plant - *ongoing through August*
- Complete chemical piping systems from North Plant to Central Plant - *ongoing through May*
- Begin testing SCADA systems for Phase 1 Filter, Phase 1 HSPS components, and IPS control - *ongoing through June*
- Install filter media and complete chemical piping at Phase 1 Central Plant - *ongoing through September*
- Continue mechanical, electrical, and building dry in activities at Phase 1 HSPS - *ongoing through August*
- Continue conveyor, piping, and electrical system installations at Dewatering Facility - *ongoing through May*
- Ready for SCADA system testing at Dewatering Facilities - *ongoing through May*
- Commence and continue Phase 1 site paving at Dewatering Facility - *April through October*
- Continue use of GST 1 and 2 for Phase 1 HSPS pump testing and filter media installation - *ongoing through September*
- Concrete structure construction at Phase 2 facilities continues - *ongoing through December*
- Continue installing filter gallery piping in Phase 2 filter - *ongoing through August*

“As this project begins to take shape, I try to imagine how the next generation of operators will advance this utility.”

— Joey Eickhoff  
Houston Water  
Operations Manager

### GOOD NEIGHBOR UPDATE

- **Next Meeting Date:** March 20, 2022
- **Website:** <https://greaterhoustonwater.com/>





282-Filter Module 2 – Pipe installation



Air-gap Monitoring System: 96-inch FW



242-Flocculation and Sedimentation Train 2: SB3 Trough Install



Overflow Channel Bottom Slab Installation



Central Plant – Phase 1