



WATER PURIFICATION PLANT EXPANSION



NEWPP Expansion Project MONTHLY STATUS REPORT



September 2020

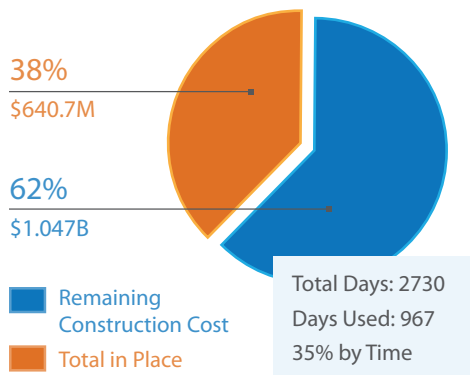
KEY PERFORMANCE INDICATORS (KPI)

Status through September 2020

KPI	Description	Target	Status	Trend (from last update)	Notes
Phase 1 Completion	Phase 1 (80 MGD) Substantial Completion date	Jan 25, 2023	●	↓	Current schedule shows available float is significantly reduced.
Phase 2 Completion	Phase 2 (240 MGD) Substantial Completion date	June 27, 2025	●	↓	Current schedule shows available float is significantly reduced.
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	●	▬	2.886M hours to date. 5 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

CONSTRUCTION STATUS*



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

MWBE STATUS

SUBCONSULTANT PARTICIPATION - HWT*

M/WBE FIRMS – 13.9%

HWT – 86.1%

*As reported on COH OBO B2G contract audit summary.

SUBCONSULTANT PARTICIPATION - PATC*

M/WBE FIRMS – 27.4%

CAROLLO – 72.6%

*As reported on COH OBO B2G contract audit summary.

Percentages based on amount paid through Sep 2020

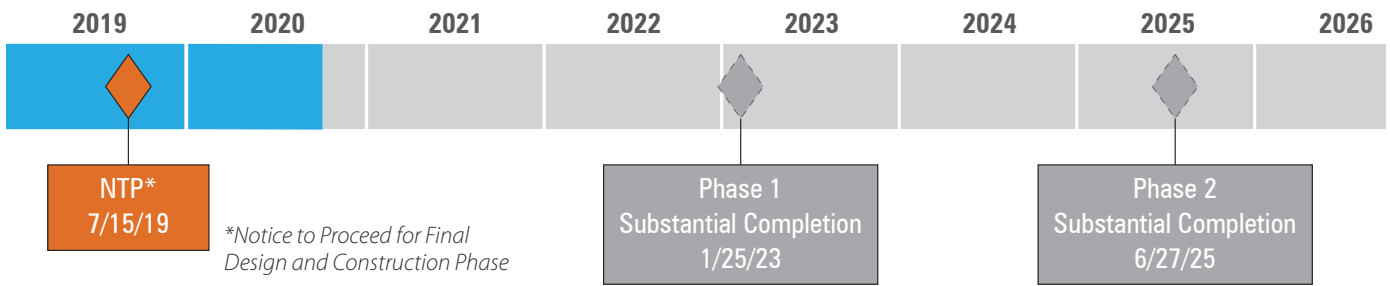
BUDGET SUMMARY

Status through invoice dates listed below.

	Budget ¹	Authorized Amount ²	Invoiced to Date ³	Invoice Date/ % Invoiced ³
Design-Builder (Houston Waterworks Team) ⁴	\$1,765,532,834	\$1,688,408,774	\$640,705,101	Aug 2020/38%
Project Advisor/Technical Consultant (Carollo Team) ⁵	\$95,759,349	\$89,520,497	\$39,788,700	Aug 2020/44.4%
Outside Legal (Hawkins Delafield and Wood)	\$2,131,590	\$1,931,590	\$1,591,995	Jul 2019/82.4%
City/Other ⁶	\$21,022,642	\$21,022,642	\$11,480,011	Dec 2018/54.6%
Management Reserve ⁷	\$88,243,764			
TOTAL⁸	\$1,972,690,179	\$1,800,883,503	\$693,565,806	

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

SCHEDULE STATUS



NOTEWORTHY ACCOMPLISHMENTS

- **Central Plant:** Ongoing structural concrete for facility 281 and 282 filter modules 1 and 2; header installation facility 291 transfer PS 1; installation of pump cans facility 292 transfer PS 2; Ongoing conduit installation for facilities and 311 and 312 post-chemical nos. 1&2.
- **North Plant:** Ongoing formwork, rebar placement and structural concrete for work all structures.
- **IPS:** Final installation of 108-inch bridge landward underground piping.
- **Admin Building:** Began installation of structural steel at Admin Building; completed structural steel at Maintenance Building.
- **LREQ:** Ongoing rebar installation for elevated walkway and deck facilities 601&602.
- **Yard Piping:** Ongoing installation of 120-inch & 84-inch and FW and fittings Corridor 5, and various diameters corridors 3 and 4.
- **South Plant:** Ongoing installation 78-inch inlet pipes facility 401 HSPS; completed 102-inch outlet pipe install GST 362; awaiting final load transfer platform installation GST 362; Ongoing installation of structural steel floors 2 and 3 and masonry walls facility 520 dewatering building.
- **Substation and Site Electrical:** Ongoing installation of switchgear facility 102; Ongoing installation of duct banks, new and existing plants.

3-MONTH LOOK AHEAD

- Continue install of 84" & 96" FW in Corridor 4 (September-November)
- Continue install 108", 84" & 120" FW pipelines in Corridor 5 (Ongoing-January)
- Continue concrete on Gravity Sludge Thickener Complex 2, Facility 502, and Service Building (Ongoing-December)
- Place wall concrete and begin SOG placements at Gravity Sludge Thickener Complex 4, Facility 504, and Service Building (Ongoing-January)
- Steel erection for Administration & Maintenance Building Breezeway (November)
- Place elevated concrete floor slabs at Administration & Maintenance Building (October-December)
- Complete installation of 108" Raw Water to existing plant termination (December)
- Liquid Residual EQ 601 Facility backfill and box culvert install (October-December)
- Install and encase 72" suction lines to High Service Pump Station Pump Cans, Building 401 (October-November)
- Install HSPS 402 pump cans (November)
- Substation 102 yard work and energize gear (November-December)
- Pull 25kv cable from Substation 102 to Substation 111 (November-December)
- Install Bridge Crane and finish steel erection at Solids Dewatering 520 (November)
- Place elevated structural slabs on Dewatering building-September (November)
- Place slab on grade at GST 362 and begin wall panel casting (December)

“The scale and scope of this project is so grand that I am really able to utilize my experience for the betterment of the project, while still being able to learn new things and grow as a professional. At the end of the day, this is just a fun project to be a part of and I am really enjoying my work here!”

- Lynea Gallagher,
PATC Construction Auditor

GOOD NEIGHBOR UPDATE

- **Next Meeting Date:** Q3 2020
- **Website:** <https://greaterhoustonwater.com/>



Central Plant – Phase 2



Installation of 78" Inlet Pipes and their Encasement at HSPS 401



Completed Maintenance Building Steel Structure



Erection of Structural Steel 3rd Floor Roof Framing at the Dewatering Building 520



Installation of MSB 111 Roof Blocking Underway