

Upcoming Requests for Council Action

Transportation, Technology & Infrastructure Committee June 24, 2019



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REQUESTS FOR COUNCIL ACTION

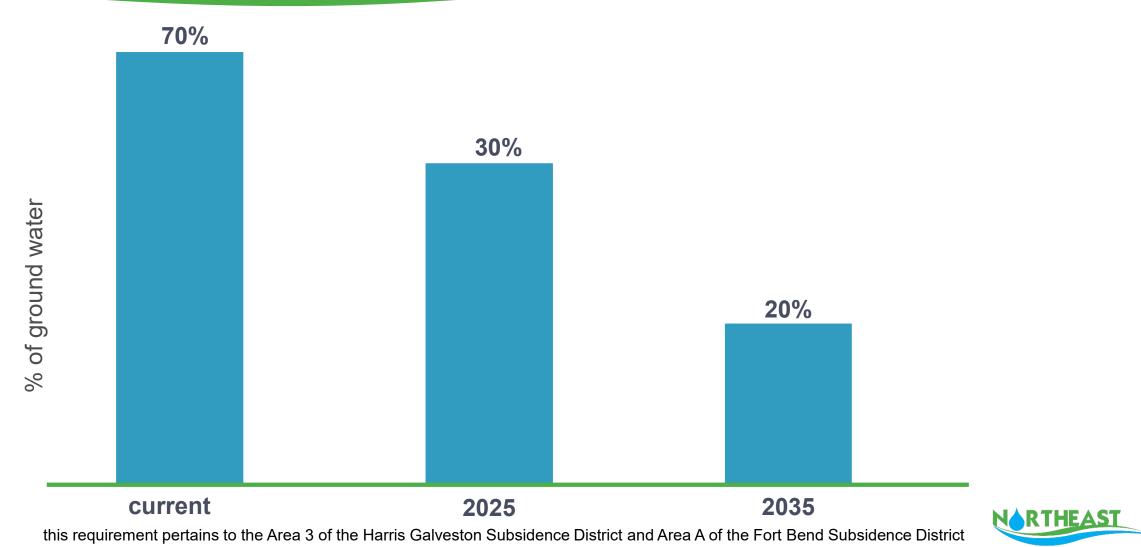
when	what	who
June 2019	Water Supply Contract 1 st Amendment to 2nd Supplement of Water Supply Contract (4 separate contracts)	North Harris County Regional Water Authority West Harris County Regional Water Authority Central Harris County Regional Water Authority North Fort Bend Water Authority
July 2019	Independent Engineering Services 7 th Additional Appropriation to Professional Engineering Services Contract for Project Advisor / Technical Consultant	Carollo Engineers, Inc.
July 2019	Guaranteed Maximum Price 8 th Amendment to Design-Build Services Contract	Houston Waterworks Team



BACKGROUND



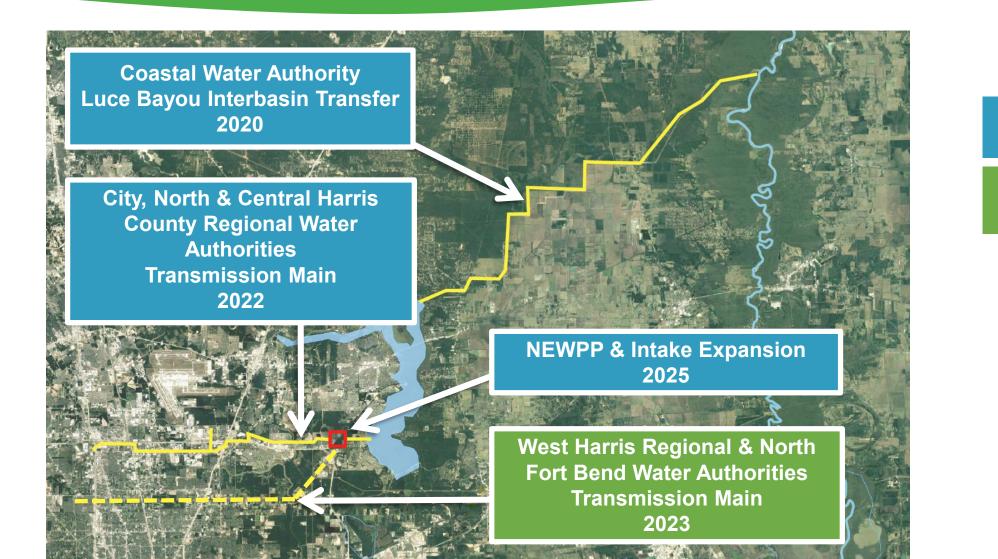
MAXIMUM GROUNDWATER USE



WATER PURIFICATION PLANT EXPANSION

5

INTEGRATED SOLUTION



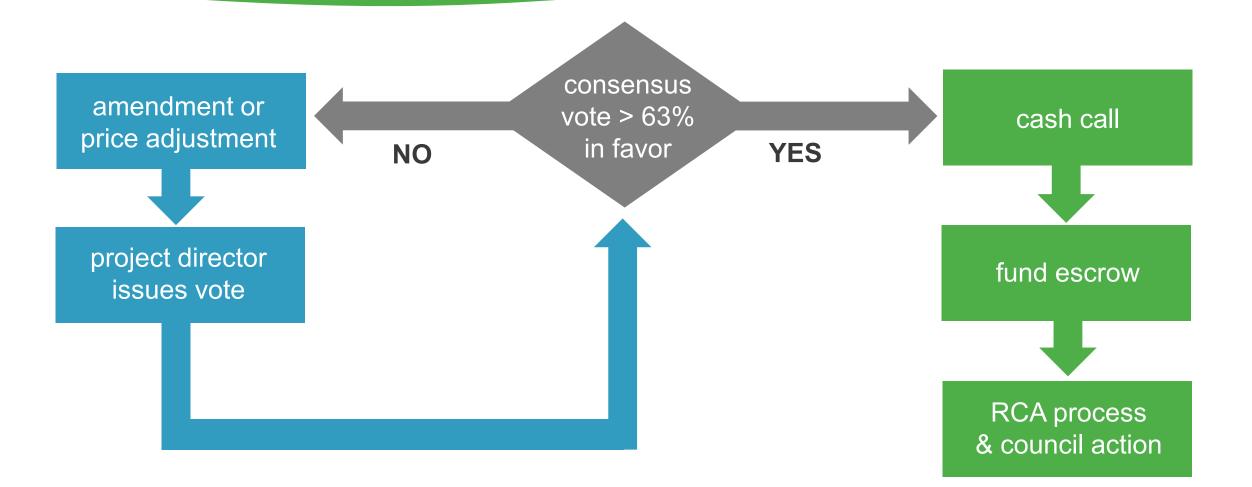
LEGEND

projects with city participation

project by others



VOTING PROCESS





WATER SUPPLY CONTRACT



CONTRACT PROGRESSION

	original contract	1 st supplement	2 nd supplement
date	2002-2008	2009	2015
purpose	City / authority capacity reservations	Luce Bayou Inter-Basin Transfer Project	NEWPP Expansion Project Cost and Capacity Share
amendments	transmission system	Amendment to 1 st Supplement - 2013 Incorporate Texas Water Development Board Loan	Amendment to 2 nd Supplement – July 2019 Establish Procedures for Operations and Distribution



KEY PROVISIONS NO FUNDING REQUIRED

procedures for operations & distribution systems

- excess water usage
- leasing water between participants
- facility management committee
- capital renewal fund
- metering



WATER SUPPLY CONTRACT

REQUESTS FOR COUNCIL ACTION

when	what	who
June 2019	Water Supply Contract 1 st Amendment to 2nd Supplement of Water Supply Contract (4 separate contracts no funding required)	North Harris County Regional Water Authority West Harris County Regional Water Authority Central Harris County Regional Water Authority North Fort Bend Water Authority



INDEPENDENT ENGINEERING SERVICES



DESIGN-BUILD REQUIREMENTS

Per State Law: engineering services MUST be provided independent of the design-build firm

TEXAS ADMINISTRATIVE CODE 2269

Sec. 2249.356. USE OF OTHER PROFESSIONAL SERVICES. (a) The governmental entity shall provide or contract for independently of the design-build firm, the following services as necessary for the acceptance of the civil works project by the entity:

- (1) inspection services;
- (2) construction materials engineering and testing; and
- (3) verification testing services

Carollo Engineers, Inc. is the Project Advisor/Technical Consultant (PATC) that provides Independent Engineering Services

Independent Engineering Services = PATC



KEY PROVISIONS

Project Advisor / Technical Consultant (PATC) services through 2025

- technical oversight
- project management advisory services
- public engagement
- quality assurance
- construction auditing
- start-up, commissioning & operations / maintenance support



REQUEST FOR COUNCIL ACTION

when	what	contract amount	management reserve	city salary recovery	appropriation
July 2019	Independent Engineering Services 7 th Additional Appropriation to Professional Engineering Services Contract for Project Advisor / Technical Consultant	\$68.0M	\$2.0M	\$2.0M	\$72.0M



SUMMARY

	approval action	contract amount	management reserve	city salary recovery	appropriation ¹
previous	contract & amendments 1-6	\$31.5M	\$0	\$2.8M	\$34.3M
current	Project Advisor/Technical Consultant	\$68.0M	\$2.0M	\$2.0M	\$72.0M
	total	\$99.5M	\$2.0M	\$4.8M	\$106.3M

1. appropriation includes management reserve & city salary recovery



COST SHARING

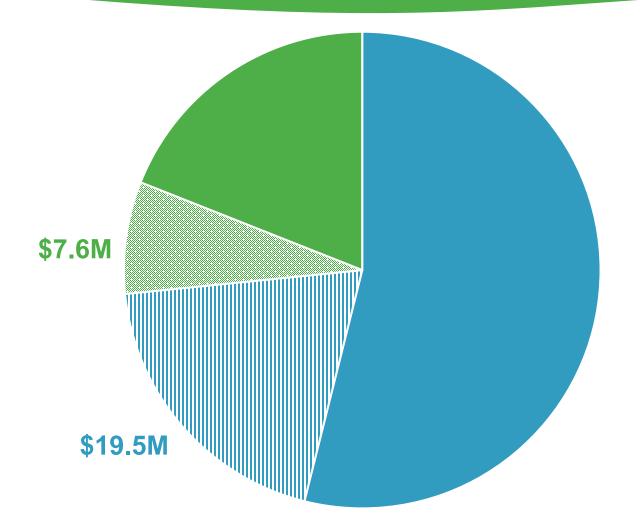
approval action		appropriation ¹	City of Houston (16% + oversized) ²	water authorities (84%)
previous	contract & amendments 1-6	\$34.3M	\$5.5M	\$28.8M
current	7 th Additional Appropriation to Professional Engineering Services Contract for Project Advisor / Technical Consultant	\$72.0M	\$11.5M	\$60.5M
future	no additional appropriations	N/A	N/A	N/A
	total	\$106.3M	\$17.0M	\$89.3M

appropriation includes management reserve & city salary recovery 1.

city is funding 100% of oversized facilities that will allow for future beneficial use of entirety of water rights in San Jacinto & Trinity River 2.



COMMITMENT TO MWBEs



PROJECT GOAL 24% participation of \$99.5M

- PATC balance
- PATC paid to date*
 - MWBE proposed commitment
 - MWBE paid to date*



*the paid to date dollars vary from the Houston Office of Business Opportunity website: PATC - \$19.8M, MWBE - \$7.4M

GUARANTEED MAXIMUM PRICE



NORTHEAST WATER PURIFICATION PLANT



Treatment Facilities

WATER PURIFICATION PLANT EXPANSION 20

* new facilities shown are renderings of the completed project

KEY PROVISIONS

- plant expansion construction
- permitting
- construction supervision
- material testing / quality control
- inspection
- integration
- plant start-up
- final acceptance



PRICE BREAKDOWN

task	amount
design*	\$174,225,383
construction*	\$1,120,085,461
construction management*	\$108,685,635
inspection / testing*	\$49,193,630
major equipment	\$83,843,499
design-build fee / contingency	\$180,049,719
performance bonds / payment bonds	\$49,449,507
guaranteed max price total	\$1,765,532,834

*eligible for MWSBE participation (\$1.452B)



GUARANTEED MAXIMUM PRICE



CURRENT REQUEST FOR COUNCIL ACTION

when	what	contract amount	management reserve	city salary recovery	appropriation
July 2019	Guaranteed Maximum Price 8 th Amendment to Design-Build Services Contract	\$900.0M	\$23.3M	\$2.5M	\$925.8M



SUMMARY

	approval action	contract amount	management reserve	city salary recovery	appropriation ¹
previous	contract & amendments 1-7	\$449.7M	\$6.7M	\$2.4M	\$458.8M
current	8 th Amendment to the Design- Build Services Contract	\$900.0M	\$23.3M	\$2.5M	\$925.8M
future	appropriation – 2020	\$132.1M	\$16.3M	\$2.6M	\$150.9M
future	appropriation –2021	\$283.7M	\$114.8M	\$2.6M	\$401.1M
total		\$1,765.5M	\$161.1M	\$10.0M	\$1,936.6M

1. appropriation includes management reserve & city salary recovery

GUARANTEED MAXIMUM PRICE



COST SHARING

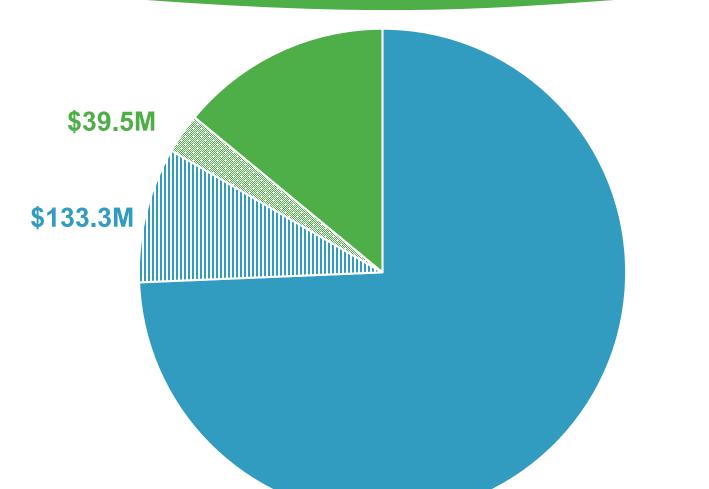
approval action		appropriation ¹	City of Houston (16% + oversized) ²	water authorities (84%)
previous	contract & amendments 1-7	\$458.8M	\$99.3M	\$359.5M
current	8 th Amendment to the Design-Build Services Contract	\$925.8M	\$253.0M	\$672.8M
future	appropriation – 2020	\$150.9M	\$2.6M	\$148.3M
future	appropriation –2021	\$401.1M	\$81.4M	\$319.8M
	total	\$1,936.6M	\$436.3M	\$1,500.3M

1.appropriation includes management reserve & city salary recovery

2.city is funding 100% of oversized facilities (\$75.5M) that will allow for future beneficial use of entirety of water rights in San Jacinto & Trinity River VORTHEAS



COMMITMENT TO MWSBEs



PROJECT GOAL 13.5% participation of GMP \$1.766B

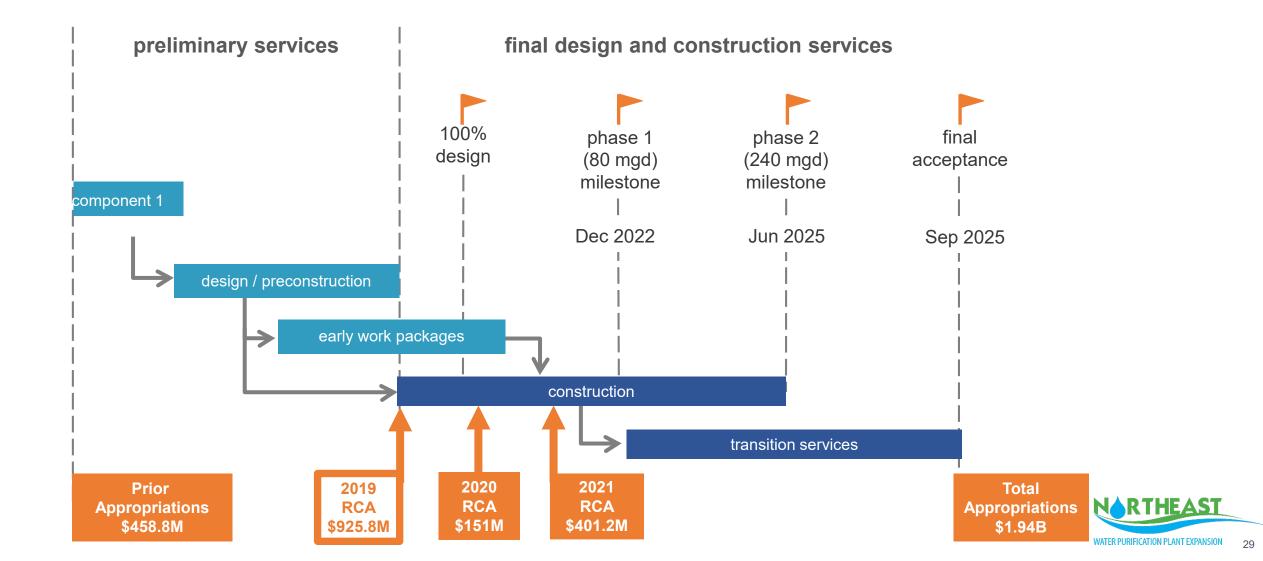
- Houston Waterworks Team (HWT) balance
- HWT paid to date*
 - MWSBE proposed commitment
 - MWSBE paid to date*



NEXT STEPS



SCHEDULE



COUNCIL ACTION

approval action		appropriation ¹	City of Houston (16% + oversized) ²	water authorities (84%)
	1 st Amendment to the 2 nd Supplement of Water Supply Contract (4 separate contracts)	N/A	N/A	N/A
current	7 th Additional Appropriation to Professional Engineering Services Contract for Project Advisor / Technical Consultant	\$72.0M	\$11.5M	\$60.5M
	8 th Amendment to Design-Build Services Contract	\$925.8M	\$253.0M	\$672.8M
future	Design-Build – 2020 appropriation	\$150.9M	\$2.6M	\$148.3M
	Design-Build – 2021 appropriation	\$401.1M	\$81.4M	\$319.8M

appropriation includes management reserve & city salary recovery 1.

2. city is funding 100% of oversized facilities that will allow for future beneficial use of entirety of water rights in San Jacinto & Trinity River city's share of 16% of GMP in the 1st appropriation to indicate good faith



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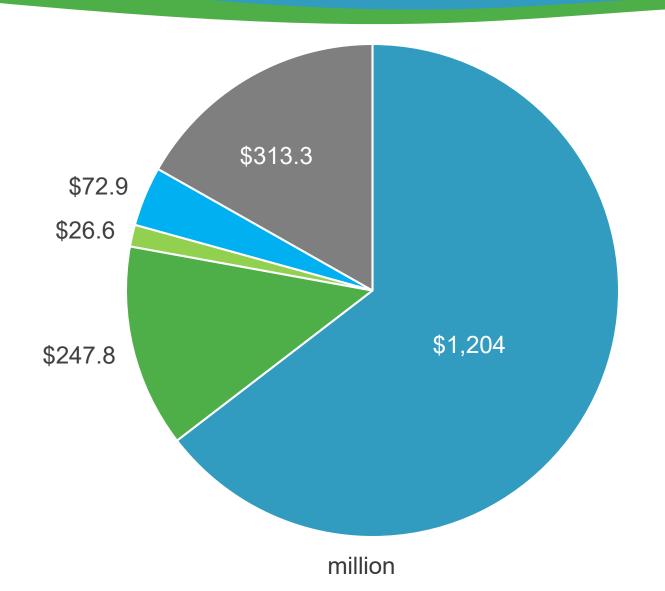
COUNCIL ACTION

future accept work

- early work package 1
- early work package 2A
- early work package 4
- early work package 6
- phase 1 milestone
- phase 2 milestone
- final



COMMITMENT TO MWSBEs



TOTAL PROJECT GOAL \$274.4M 1,000+ jobs created

project subs

- 82 non-MWSBE
- 66 MWSBE
 - Houston Waterworks Team (HWT) HWT MWSBE
 - PATC
 - PATC MWBE
 - non-eligible





Upcoming Requests for Council Action

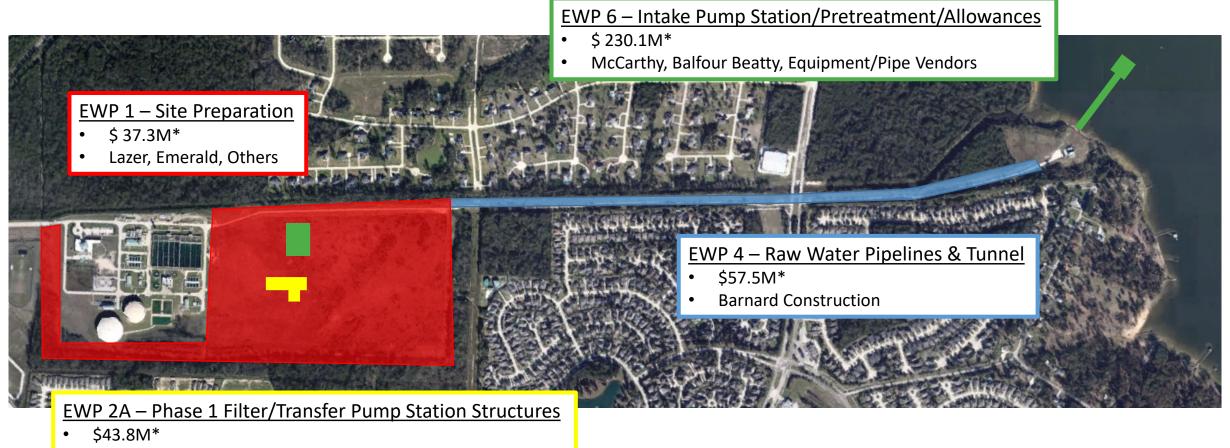
Transportation, Technology & Infrastructure Committee June 24, 2019







EARLY WORK PACKAGES



McCarthy Construction



*Guaranteed Maximum Price for HWT, not inclusive of reserve & administrative costs.

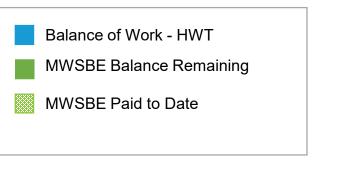
EARLY WORK PACKAGE 1 STATUS

Project Status

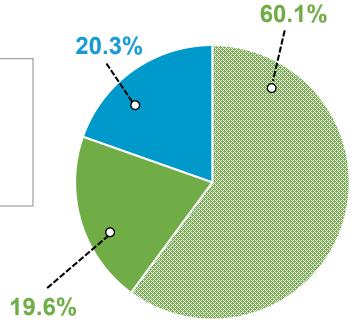
- 450 days of 598 contract completed
- \$28.73M of \$37.34M contract expended







MWSBE Participation \$13.8M Committed of \$17.2M Direct Construction Cost

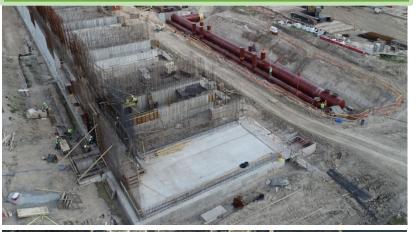




EARLY WORK PACKAGE 2A STATUS

Project Status

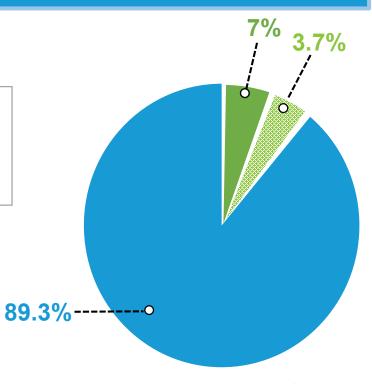
- 335 days of 600 contract completed
- \$18.13M of \$43.81M contract expended





- Balance of Work HWT MWSBE Balance Remaining
 - MWSBE Paid to Date

MWSBE Participation \$3.8M Committed of \$35.5M Direct Construction Cost





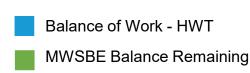
EARLY WORK PACKAGE 4 STATUS

Project Status

- 384 days of 600 contract completed
- \$29.98M of \$57.48M contract expended

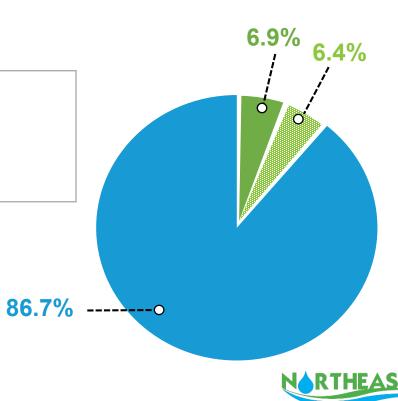






MWSBE Paid to Date

MWSBE Participation \$4.3M Committed of \$32.2M Direct Construction Cost



EARLY WORK PACKAGE 6 STATUS

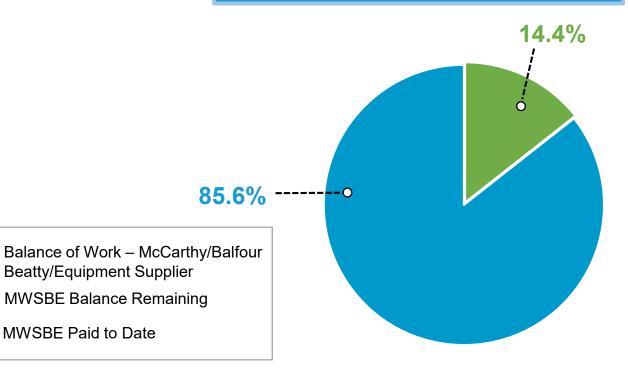
Project Status

94 days of 1306 contract completed\$19.30M of \$214.48M contract

expended

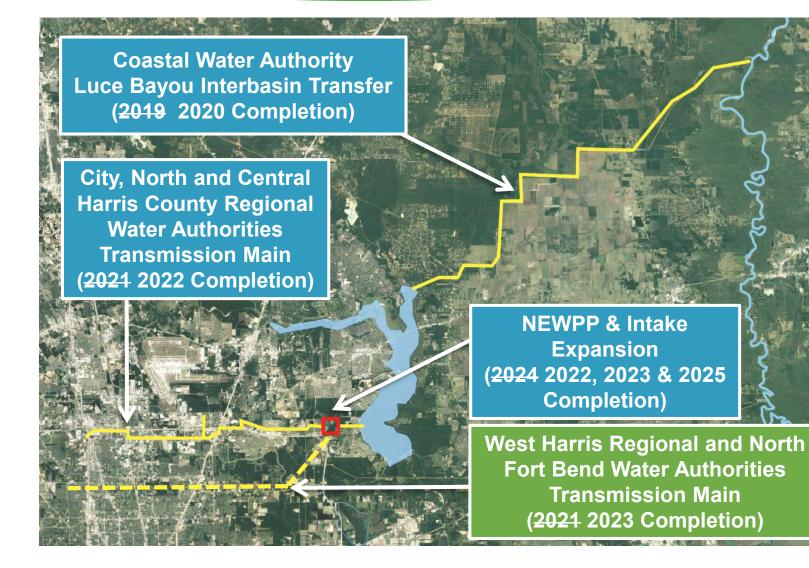


MWSBE Participation \$13.04M Committed of \$90.45M Direct Construction Cost





INTEGRATED SOLUTION



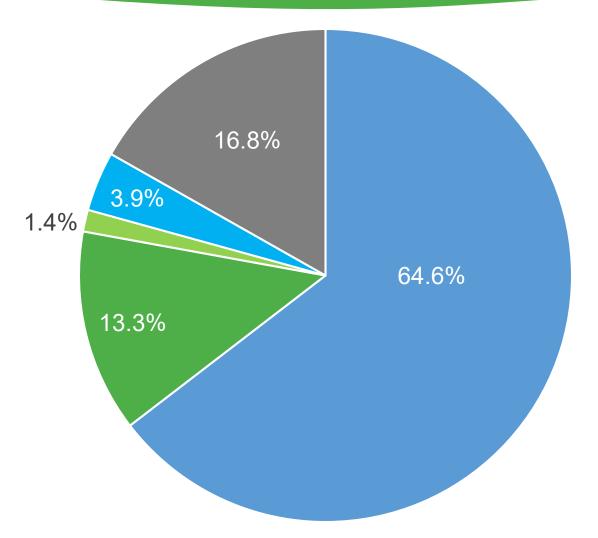
LEGEND

Project with City Participation

Project by Others



COMMITMENT TO MWSBEs



TOTAL PROJECT GOAL \$274.4M 1,000+ jobs created

project subs

- 82 non-MWSBE
- 66 MWSBE
 - Houston Waterworks Team (HWT) HWT MWSBE
 - PATC
 - PATC MWBE
 - non-eligible



% of total project (HWT & PATC together)

SECOND SUPPLEMENT

Cost and Capacity Share*

