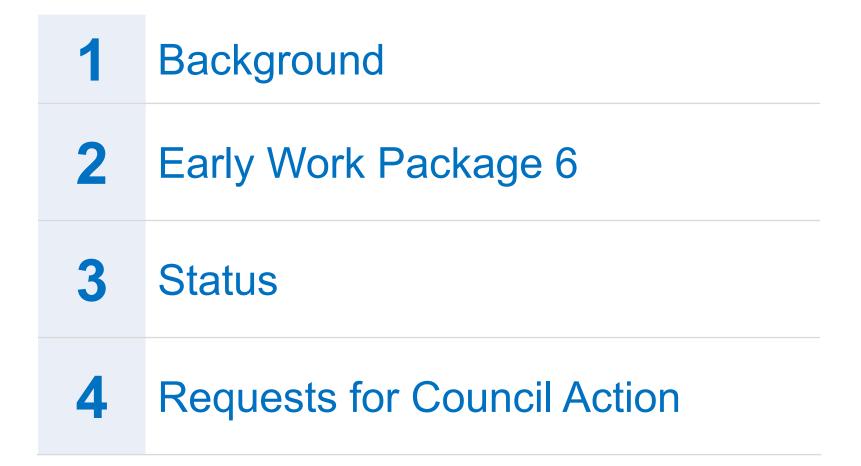


## **NEWPP Expansion Project Update**

#### Transportation, Technology & Infrastructure Committee October 17, 2018





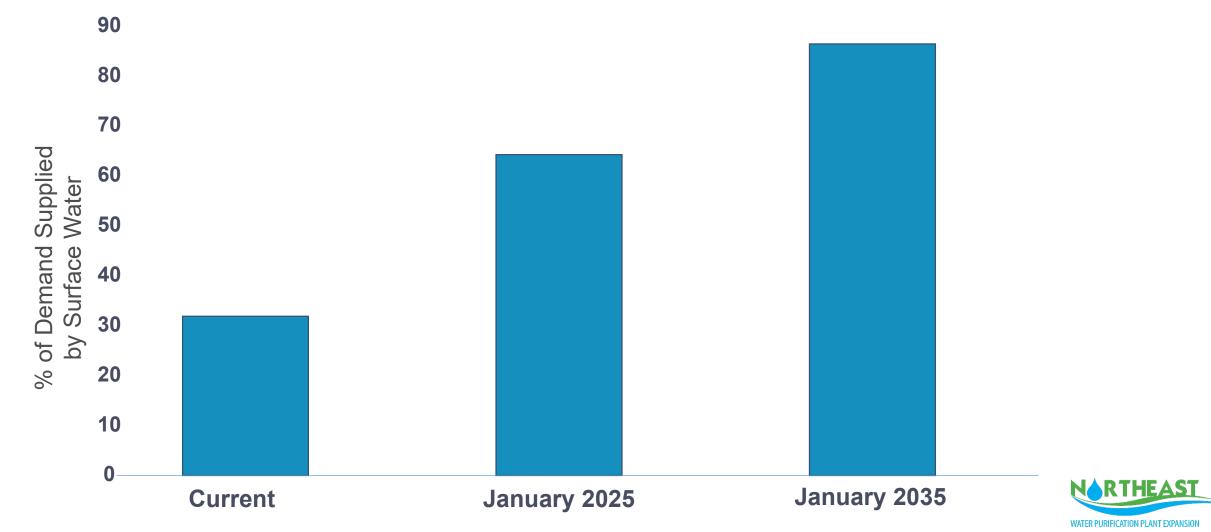




# 1 BACKGROUND



#### SUBSIDENCE REQUIREMENT



### **BIG PICTURE PLAN**

CWA Luce Bayou Interbasin Transfer 2019 Completion

City/NHCRWA/CHCRWA Transmission Main 2021 Completion

New Plant & Intake 2024 Completion

WHCRWA/NFBWA Transmission Main 2021 Completion

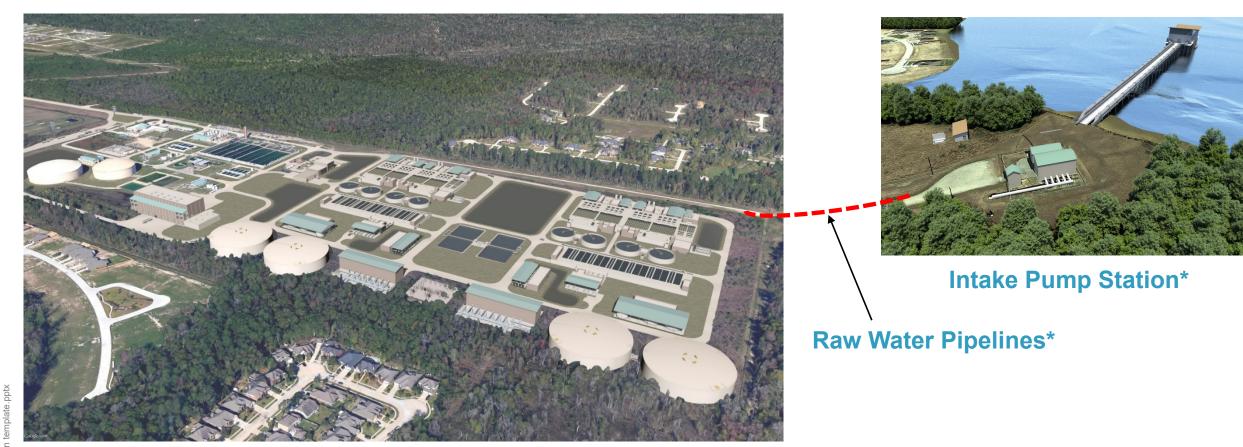
#### **LEGEND**

Project with City participation

**Project by others** 



#### CONSTRUCTION

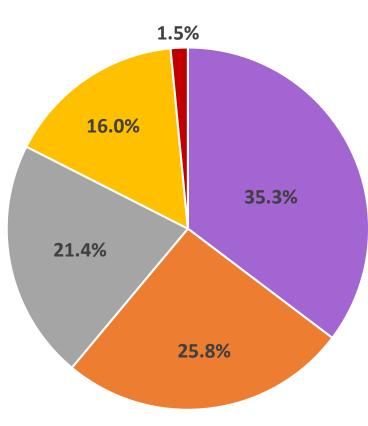


#### **Treatment Facilities\***

\*Renderings of future facilities at completion of construction



#### PARTNERSHIP

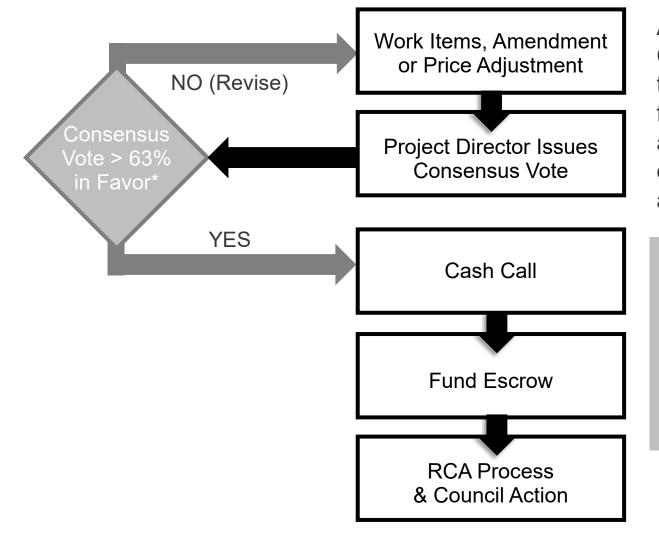


#### **NEWPP Expansion Cost Share**

- North Harris County Regional Water Authority
- West Harris County Regional Water Authority
- North Fort Bend Water Authority
- City of Houston
- Central Harris County Regional Water Authority



#### AGREEMENT



Article VI of the Second Supplement Contracts between each Authority and the City requires Authority consensus for approval of all contract amendments. A weighted vote that exceeds 63% must be achieved to approve each item.

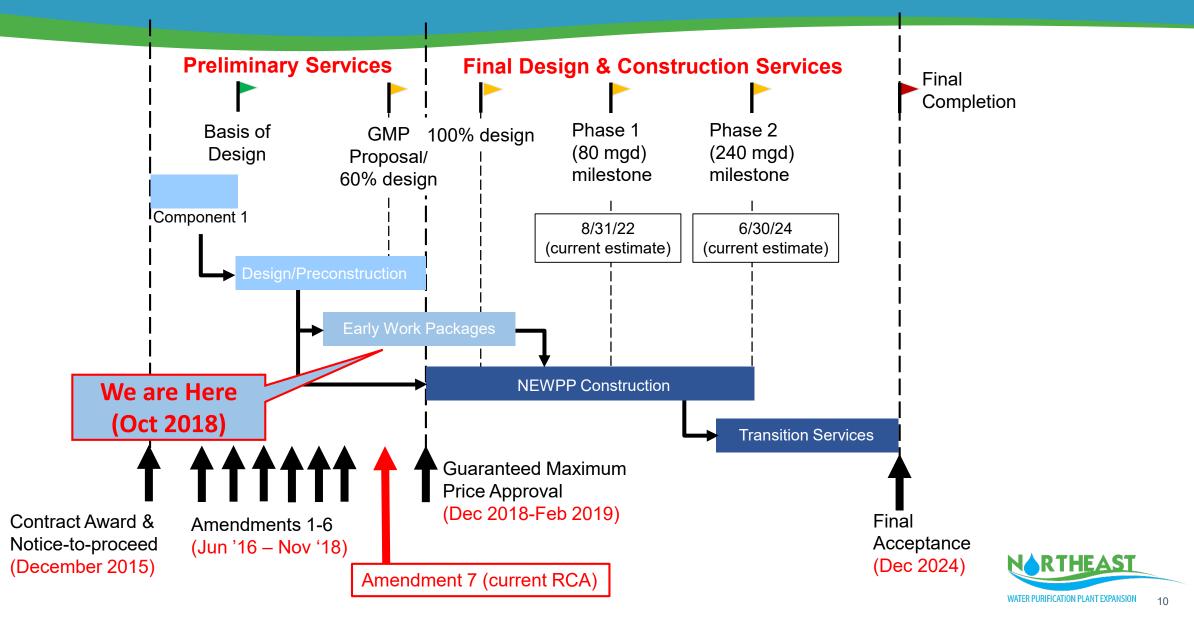
- \* Weighted consensus based on the following cost share percentages:
  - NHCRWA 35%
  - WHCRWA 25.8%
  - NFBWA 21.4%
  - *Houston* 16%
- CHRWA 1.5%



# 2 EARLY WORK PACKAGE 6



#### SCHEDULE



#### **OVERVIEW**



Early Work Package 6 ≈ \$230M



### **INTAKE PUMP STATION**



- \$69.9M
- McCarthy Construction
- Construction of intake, pump station, bridge deck, building, on-shore electrical building, associated piping & mechanical



Renderings of future facilities at completion of construction



### **NORTH PLANT STRUCTURES**



#### • \$20.5M

- Balfour Beatty Construction
- Concrete structures for rapid mix, floc/sed, recycle facilities for Train 2
- Structure on critical path for reaching Phase 1 milestones



Rendering of future facilities at completion of construction

## **EQUIPMENT, PIPING & OTHER ALLOWANCES**



#### Total Allowances - \$96.2M

- Yard Piping \$50.9M
  - 108" Raw Water
  - 120" Finished Water
  - Other Piping Systems
  - Equipment \$33.0M
    - Large Valves
    - Vertical Turbine Pumps
    - Ozone Equipment
    - Adjustable Speed Drives
  - Concrete Batch Plant \$5.0M
- Other \$7.3M





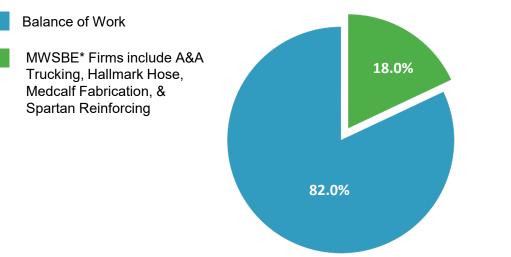
#### **INDIRECT COSTS**

Description	Amount
Professional Services	\$15.1M
General Conditions	\$7.4M
Fee	\$10.7M
Bonds	\$4.2M
Contingency	\$6M
TOTAL	\$43.4M

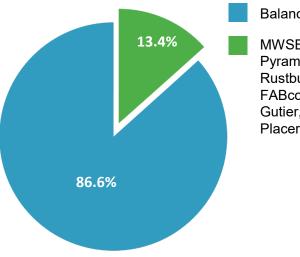


### **MWSBE PARTICIPATION EARLY WORK PACKAGE 6**





MWSBE Participation for Intake Pump Station McCarthy Construction \$9.4M of \$70.0M direct construction cost



Balance of Work

MWSBE\* Firms include Pyramid, Locke Solutions, Rustbusters, Omni Pipe, FABco, Competitive Choice, Gutier, Empire, Rebar Reinf Placers





# 3| STATUS



### EARLY WORK PACKAGE (EWP) **OVERVIEW**

EWP 2A – Phase 1 Filter/Transfer Pump Station Structures \$45.5M - McCarthy Construction **Project Description** 

- Concrete structures for West Filter and Transfer Pumping Station
- Underslab piping & dewatering



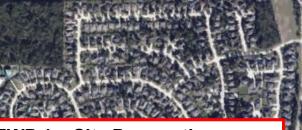
#### **EWP 4 – Raw Water Pipelines**

\$57.9M -Barnard Construction

#### **Project Description**

- Install two 108" pipelines
- Tunnel under West Lake Houston Parkway
- Electrical ductbank & chemical piping





**EWP 1 – Site Preparation** \$37.3M – Lazer, Emerald, Others **Project Description** 

- Clear and grub 90 acre site
- Stormwater management
- Roads, trailers, fence
- Mass excavation



#### **EWP 1 – SITE PREP**



Anticipated completion – Spring 2019, on budget



#### **EWP 2A – PHASE 1 FILTER + TRANSFER PUMP STATION STRUCTURES**



Night-time Concrete Pour

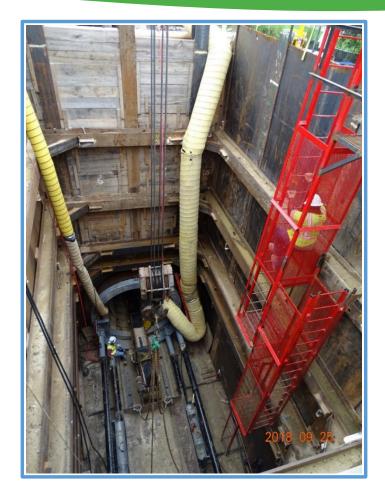
Foundation for Transfer Pump Station



Anticipated completion – Spring 2020, on budget



## **EWP 4 – RAW WATER PIPELINES**



Tunneling under West Lake Houston Parkway is ongoing

108" raw water pipes are being installed



Anticipated completion – Spring 2020, on budget



## **OVERALL M/WBE PARTICIPATION**

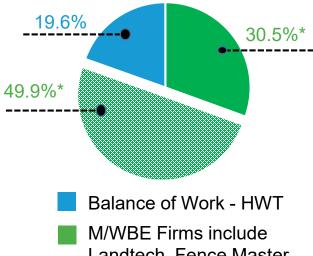
#### **Design-Builder Subconsultant Project Advisor/Technical Consultant Subconsultant Participation Participation** M/WBE Firms – **23.6%** M/WBE Firms – 25.7% Regional – **3.2%** (Binkley & Barfield, LAN & others) Regional – 4.9% (SWCA, CP&Y & Espey) Houston Waterworks Team – 73.2% Carollo - 69.4%

As of October 2018



### **OVERALL MWSBE PARTICIPATION**

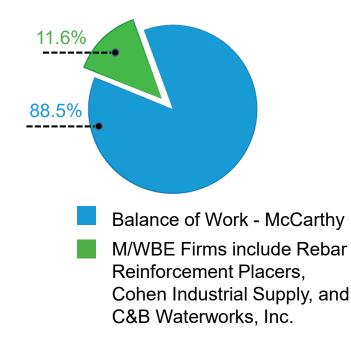
#### **MWSBE Participation for EWP 1** \$13.8M of \$17.2M direct construction cost



Landtech, Fence Master, Lazer and Emerald

\*80.4% Commitment of which 49.9% paid through Oct 2018 & 30.5% remaining to be paid

#### **MWSBE Participation for EWP 2A** \$3.8M of \$35.5M direct construction cost



**MWSBE** Participation for EWP 4 \$4.3M of \$32.2M direct construction cost 10 7%\* 86.7% Balance of Work - Barnard M/WBE Firms include Republic Traffic Safety, J. Simmons, Fierro Group, Z Logistics, M&D Foundation, AGS Consultants, All Steel

> \*13.3% Commitment of which 2.6% paid through Oct 2018 & 10.7% remaining to be paid



As of October 2018

## **COMMUNITY OUTREACH**

Website: greaterhoustonwater.com Hotline: 281-520-3777 **Public Meetings:** October 25, 2017 November 15, 2017 May 1, 2018 September 4, 2018 January 2019 - TBA Quarterly public meetings Construction notifications distributed Over 75 contractor outreach events



# **4 REQUESTS FOR COUNCIL ACTION**



### RECENT & UPCOMING REQUESTS FOR COUNCIL ACTION

Approval Action	Date	Amount
Original Appropriation	December 9, 2015	\$3.3M
Amendments #1 - #3	Dec 2016 – May 2017	\$84.3M
Amendment #4 – EWP 1	December 19, 2017	\$37.4M
Amendment #5 – EWP 4	February 28, 2018	\$57.9M
Amendment #6 – EWP 2A	April 18, 2018	\$45.5M
Legal Amendment	July 25, 2018	\$154K
Amendment #7 – EWP 6	November 2018	\$230M
Guaranteed Maximum Price Amendment	Late 2018/	TDD
Project Advisor/Technical Consultant Amendment	Early 2019	



### greaterhoustonwater.com

