



Northeast Water Purification Plant Expansion

Presentation to Council Transportation, Technology & Infrastructure Committee

Department of Public Works
& Engineering
February 13, 2017



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NEWPP EXPANSION

- Project Background
- Ongoing Activities & Upcoming Authorizations

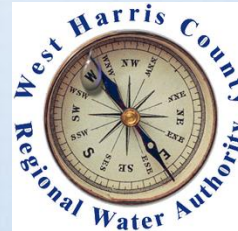
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Project Background

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In Partnership With:



Design-Builder

Legal

Project Advisor



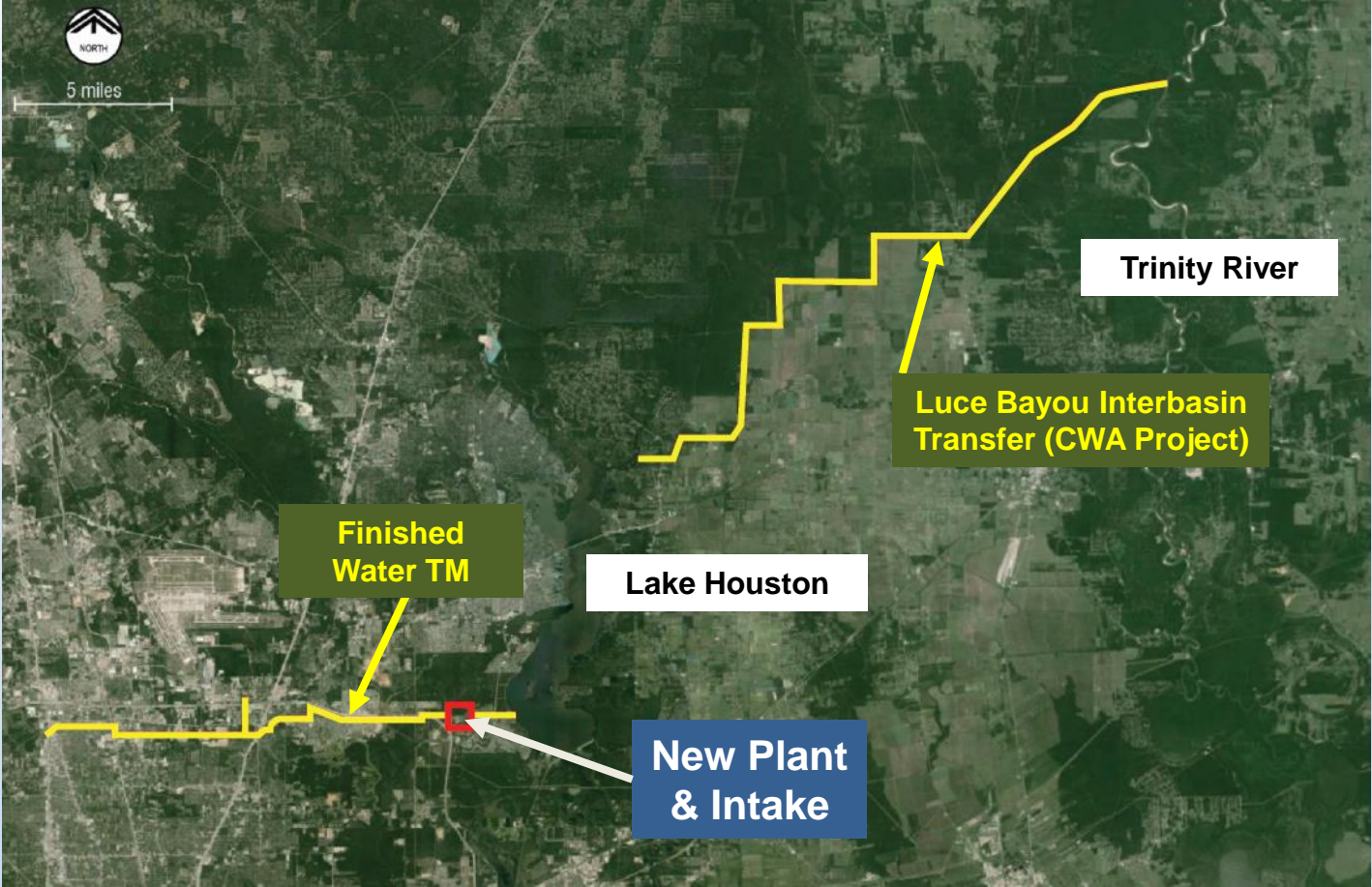
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NEWPP Expansion Necessary to Meet Local Groundwater Subsidence Regulations



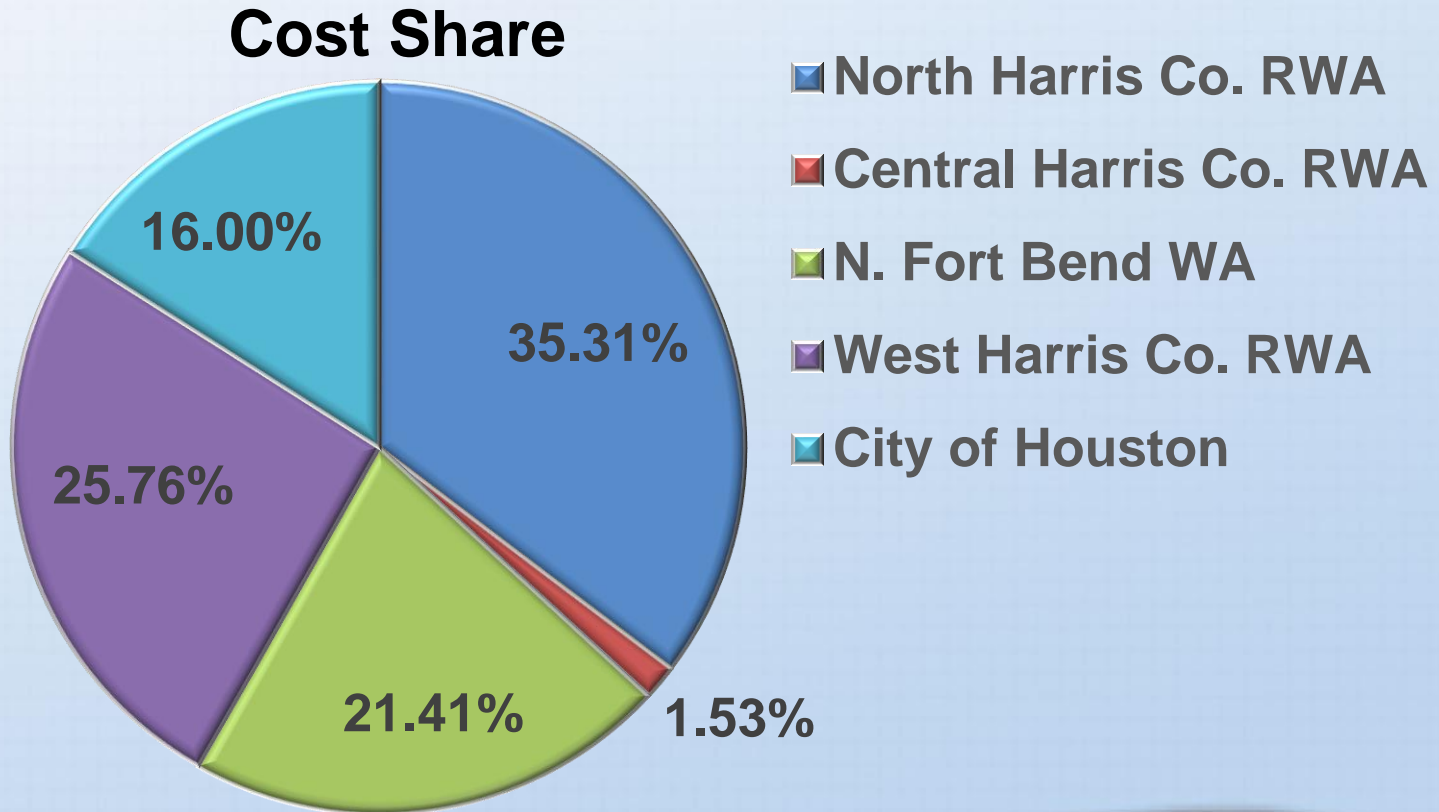
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NEWPP Expansion is One Piece of Regional Plan to Deliver & Treat Trinity River Water



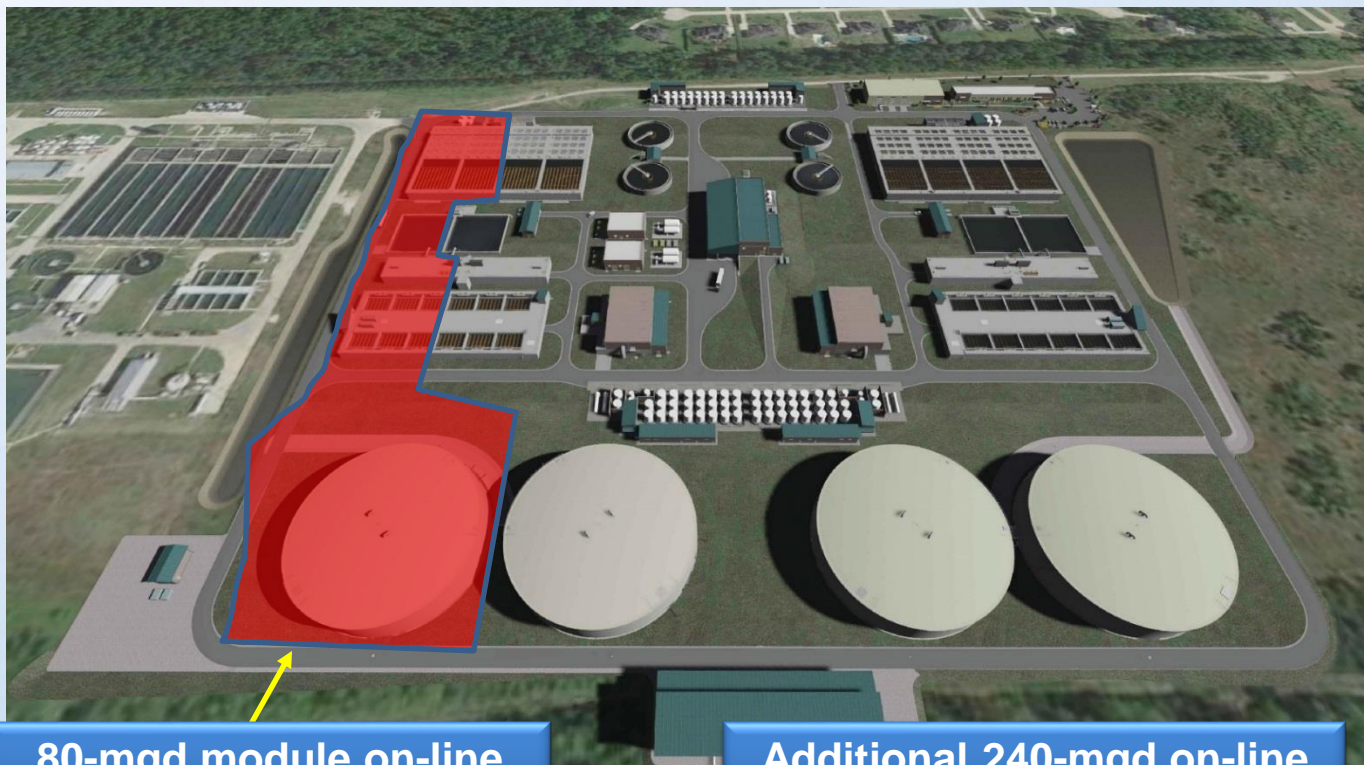
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Houston is Delivering Project on Behalf of Four Authority Partners



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320-mgd Expansion with Early 80-mgd Milestone is Planned



**80-mgd module on-line
no later than Aug. 2021**

**Additional 240-mgd on-line
no later than Jun. 2024**

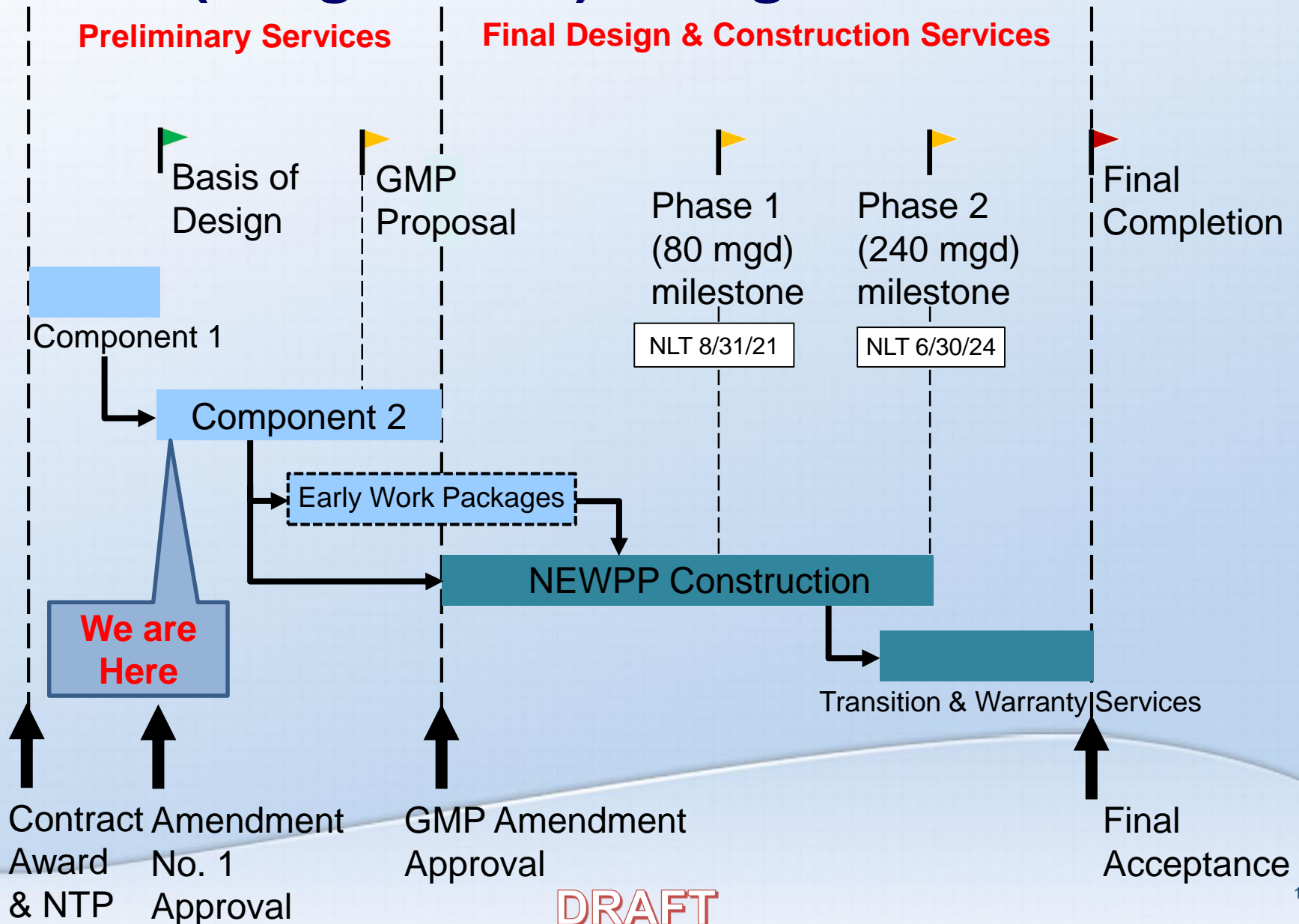
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New Intake in Lake Houston will Supply Raw Water to Plant



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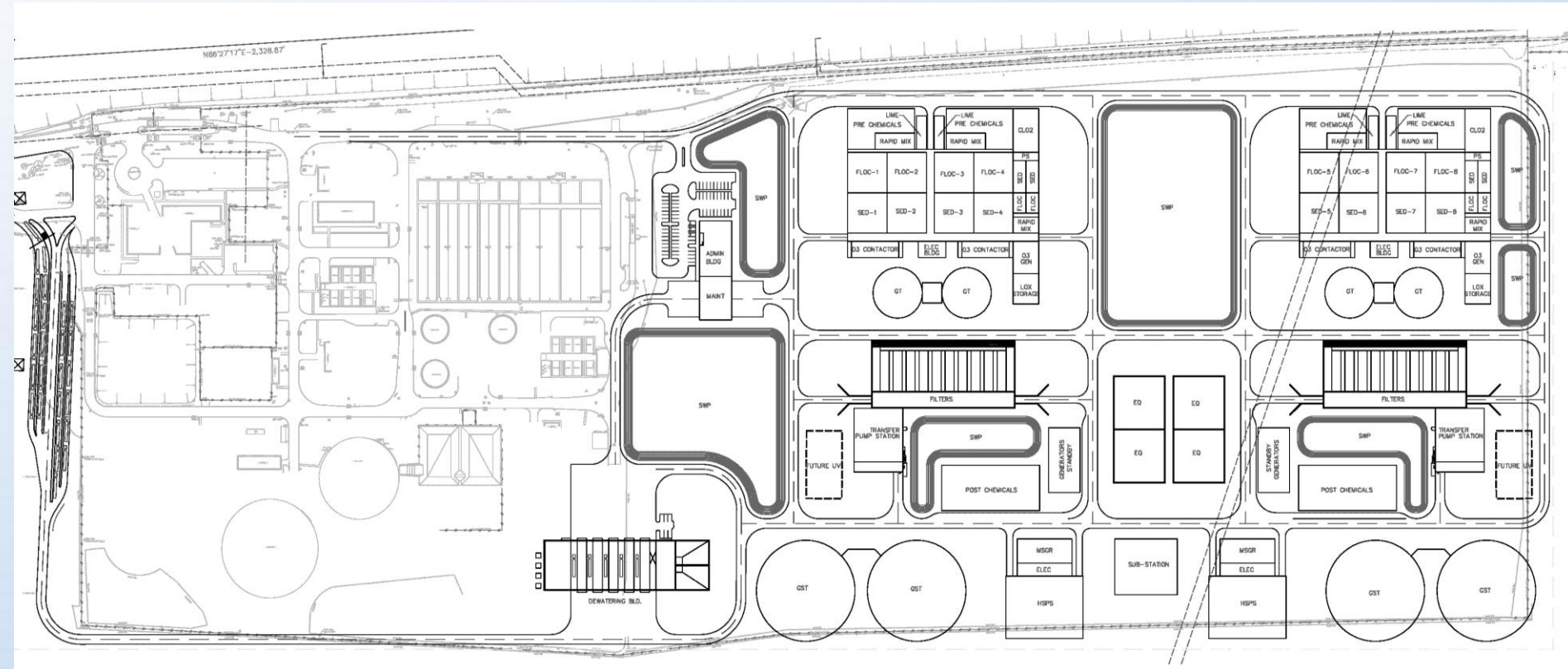
Expansion being Delivered using 2-Phase (Progressive) Design-Build



Ongoing Activities & Upcoming Authorizations

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Expansion Plan Developed During Component 1



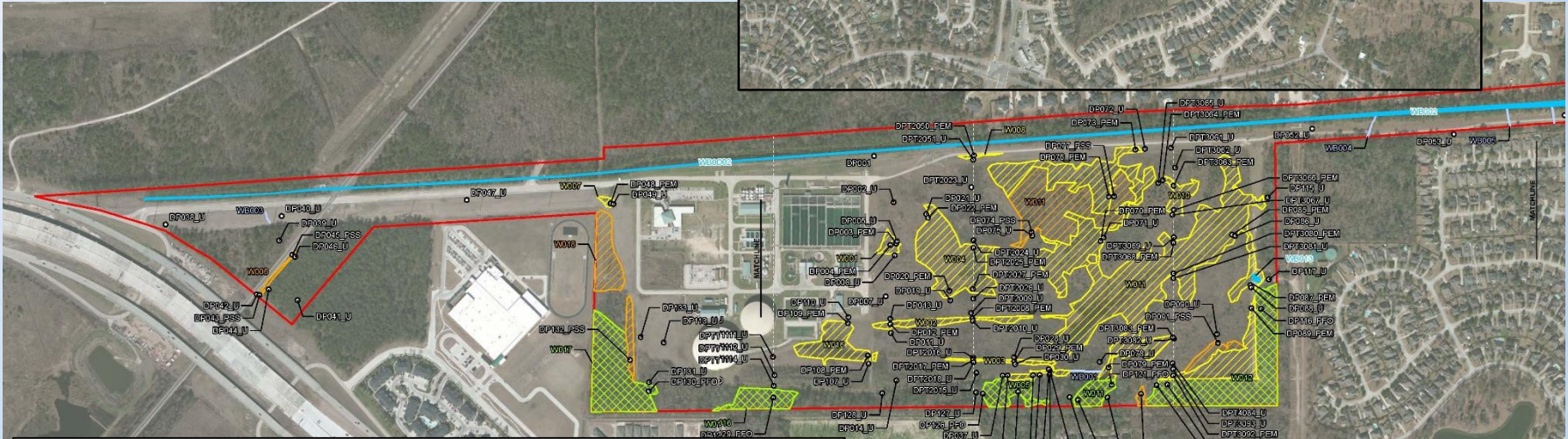
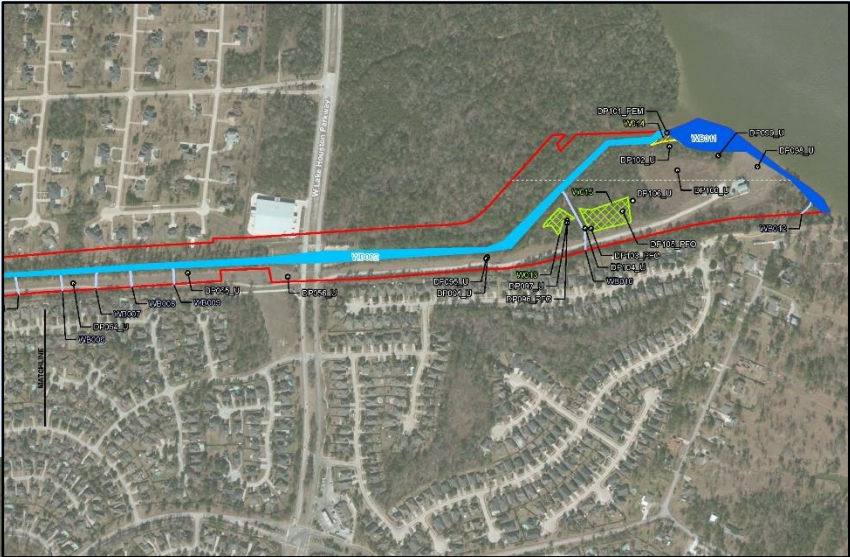
Existing 80 mgd
plant to remain operational










320 mgd addition fits
within current site

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Anticipating Record of Decision for 404 permit in Spring 2017

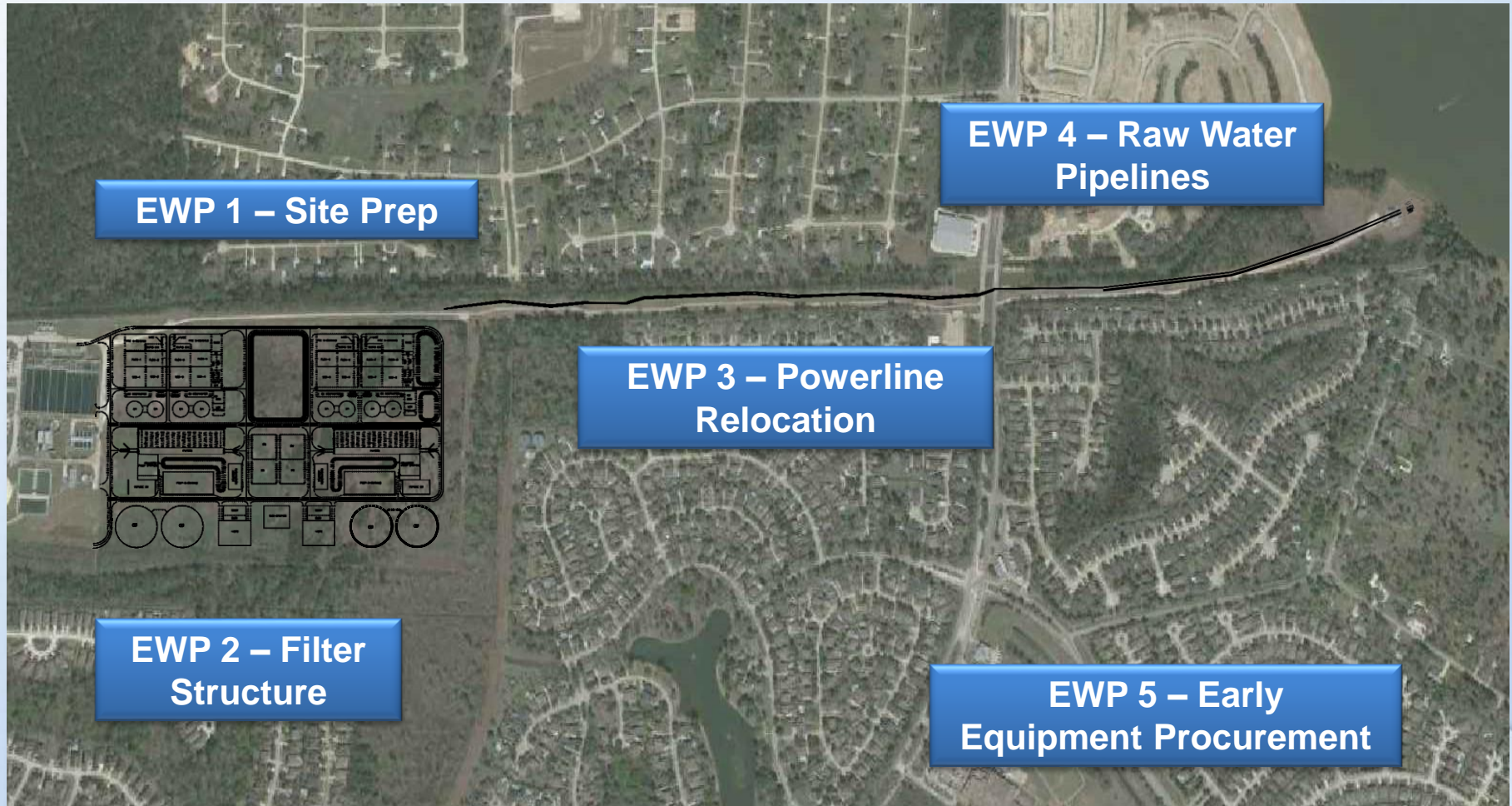
Impacts to jurisdictional wetlands & streams require mitigation



| | | | |
|---|------------------|---|------------------------|
|  | Project Boundary |  | Scrub-Shrub Wetland |
|  | Transect |  | Ephemeral Waterbody |
|  | Data Point |  | Intermittent Waterbody |
|  | Emergent Wetland |  | Perennial Waterbody |
|  | Forested Wetland | | |

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Early Work Package Construction will Begin in 2017



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Upcoming Authorizations

| Action | Approximate Date | Estimated Amount(\$)* |
|--|------------------|-----------------------|
| Approve Additional Component 2A Funds | March 2017 | \$3.0M |
| Approve Stream Mitigation Purchase | March 2017 | \$0.6M |
| Approve Wetland Mitigation Purchase | March 2017 | \$3M |
| Approve HWT Component 2B Amendment | Apr/May 2017 | \$66M |
| Approve PATC WO9 Amendment | Mar/Apr 2017 | \$15M |
| Approve EWP Construction Amendments | July-Oct 2017 | \$150M |
| Approve GMP Amendment | Mar/Apr 2018 | \$900M |
| *Budgetary estimates, actual values to be based on negotiated amendments | | |

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Q & A

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