



Northeast Water Purification Plant Expansion

Presentation to Council Transportation, Technology & Infrastructure Committee

**Department of Public Works
& Engineering
November 12, 2015**



NEWPP EXPANSION

- History/Purpose of the Project
- Procurement Process
- Procurement Activities
- Appropriation

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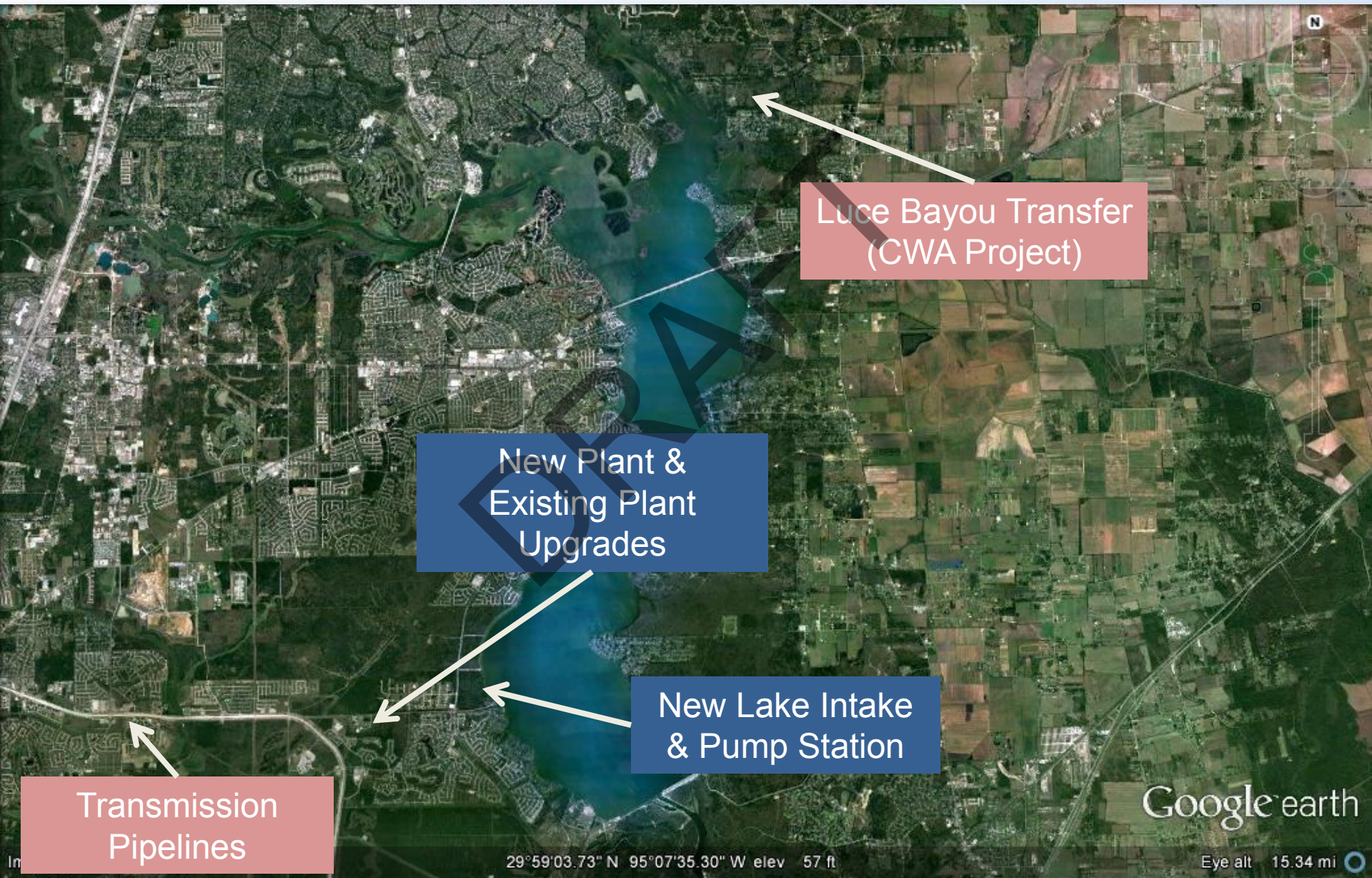
History and Purpose

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Project History and Purpose

- Regulatory Requirements to transition to surface water sources due to effects of subsidence
- Trinity River Water Rights were planned to meet this mandate:
 - Luce Bayou Inter-Basin Transfer (underway)
 - NEWPP Expansion (in procurement)
 - New Transmission Pipeline (underway)

NEWPP Expansion is one piece of overall plan to deliver & treat Trinity River supply



Luce Bayou Transfer
(CWA Project)

New Plant &
Existing Plant
Upgrades

New Lake Intake
& Pump Station

Transmission
Pipelines

NEWPP expansion is needed to meet conversion mandate (HGSD & FBSD)



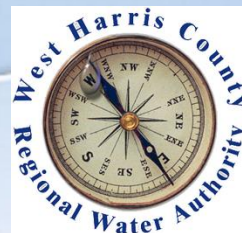
NEWPP Expansion Partnership with Regional Water Authorities

**Cost Share
Authorities: 84%
CoH 16%**

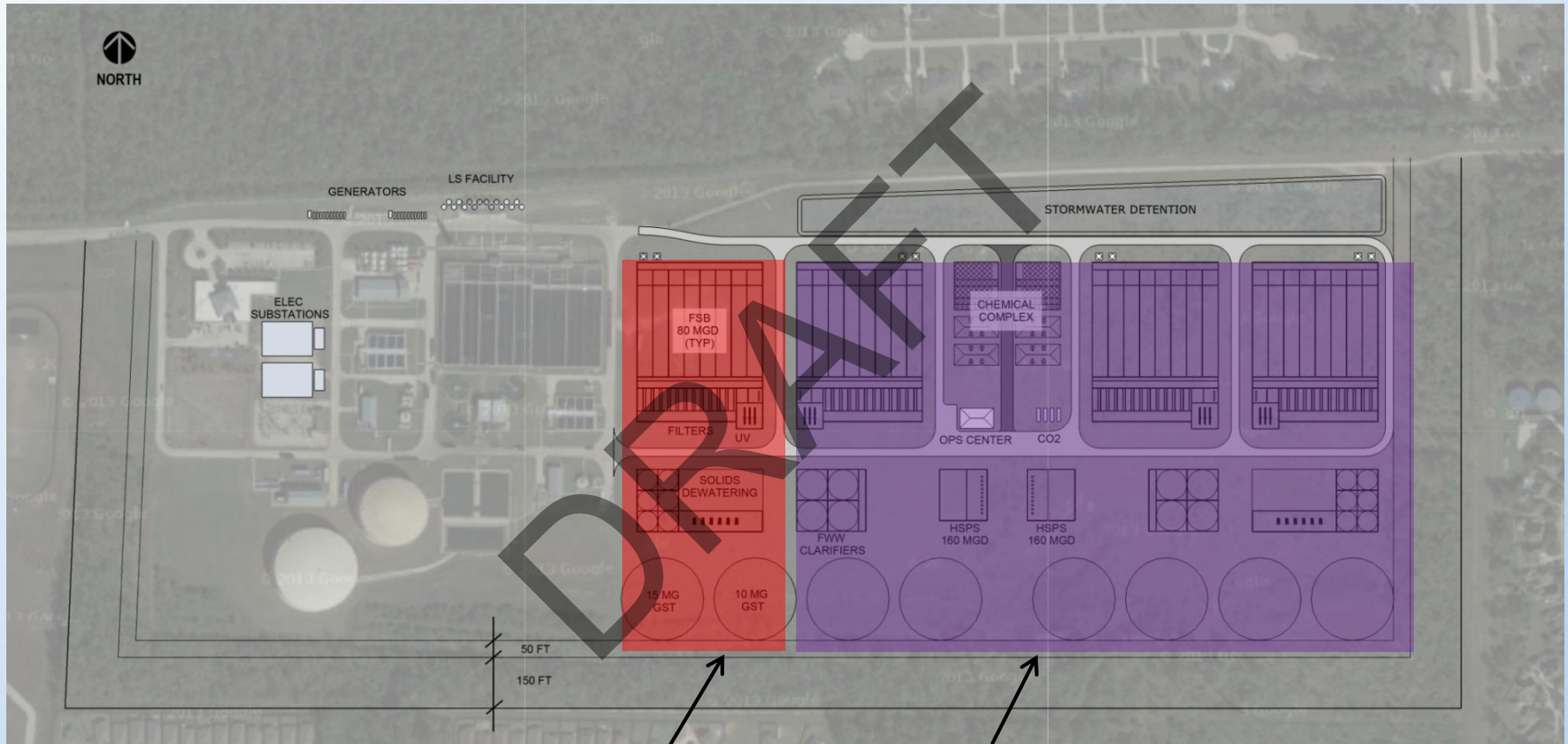
August 31, 2021

June 30, 2024

	Pro-rata Cost Share (%)	Phase I (1 st 80 MGD) (%)	Phase II (remaining 240 MGD) (%)
NHCRWA	35.313	63.813	25.813
CHCRWA	1.525	0.575	1.842
NFBWA	21.406	14.325	23.767
WHCRWA	25.756	21.288	27.246
COH	16.000	0.000	21.333
Totals	100.000	100.000	100.000



320 MGD expansion with early 80 MGD milestone is being planned



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

Add'l 240 MGD on-line no later
than June 2024

*Early completion of Phase I driven by incremental conversion mandate

NEWPP Expansion – First Steps (complete)

- Hire Project Advisor/Technical Consultant (PATC)
- Review existing & historical data; Evaluate current plant capabilities
- Develop/assess various options to meet mandate
- Evaluate various delivery methods
- Determined 2-Phase Design-Build Process was only means to achieve req'd delivery milestones (Aug 2021/June 2024)
- Negotiate 2nd Supplement Agreements between CoH & Authorities w/ Council approval
- Seek out TWDB funding

Reasons for 2-phase Design-Build

- Best opportunity to achieve Phase I Delivery Milestone
- Reduces overall schedule risk
- High degree of cost certainty
- Better ability to adapt to market conditions
- Reduces interface risk - One entity responsible for both design & construction
- Preserves City's ability to collaborate & influence design decisions

Design-Builder's Tasks

Preliminary Services:

- Design development
- Pre-construction services
- Guaranteed Max. Price (GMP) for Phase II services

Final Design and Construction Services:

- Complete design & construction
- Post-construction tasks
 - Commissioning
 - Performance testing
 - O&M advisory services
 - Warranty

Procurement Process

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The Procurement Process

- Texas Statute, Title 10, Chap. 2269 governs
- Request for Qualifications (RFQ)
- Establish Qualified Firms Short List
- Request for Proposals (RFP)
- Evaluation & Scoring
- Selection
- Award

Procurement & Contract conforms to TX Statute (Title 10, Chapter 2269)

- Contract Documents (RFQ, RFP, Design-Criteria Package, Design-Build Agreement)
- Technical-Legal Team Coordination:
 - Collaborated on RFQ, RFP, Contract
 - Conference calls
 - Face-to-face meetings
 - Obtained input from outside bond & insurance experts
 - Meetings & collaboration with Authorities
 - Review & comment by industry partners

Procurement Activities

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RFQ Process & establishment of Shortlist of Qualified Candidates

- Pre-RFQ notification & Market Research
- RFQ issued 3/20/15
- Conducted pre-submittal meeting on 4/8/15
- Received SOQs on 4/21/15
- 3 Respondents; all determined qualified

Collaborative RFP Process

- RFP issued 4/30/15
- Conducted pre-proposal meeting 6/11/15
- 12 Addenda issued based on comments & questions received during public comment period
- Extensive opportunity for input on Design-Build Agreement
- Proposals Received 10/27/15
- Stipends offered (1/2 of 1%) of Awarded Contract Amount

Evaluation process

- Criteria & relative weighting provided in RFP
- Technical weighted higher than price
- Sealed price proposals evaluated after technical evaluation completed
- Thorough responsiveness review
(Legal/MWBE/Risk Mgmt/Technical/Financial)
- Selection Panel evaluated & scored technical proposal, & then price proposals independently of support panels

Appropriation

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Appropriation Plan

- (**Dec.**) Award Preliminary Services, Component 1
 - Preliminary engineering & provide basis of design
- (**Future**) Award Preliminary Services, Component 2
 - Continue engineering
 - Early Work Package GMPs
 - Provide Guaranteed Max. Price
- (**Future**) Award Early Work Package GMPs
- (**Future**) Award GMP for Final Design & Construction

Preliminary Services

Final Design & Construction Services

Basis of Design

GMP Proposal

Phase 1 (80 mgd) milestone

Phase 2 (240 mgd) milestone

Final Completion

Component 1

Component 2

Early Work Packages

NEWPP Construction

Transition & Warranty Services

NLT 8/31/21

NLT 6/30/24

Contract Award & NTP

Amendment No. 1 Approval

GMP Amendment Approval

Final Acceptance

CarrollPlus Template With Logo.pptx

Next Steps

- Consensus Vote by Authorities
- Presentation of RCA to City Council
- Award
- NTP for Preliminary Services, Component 1
- NTP + approx 10 months:
 - Negotiated agreement for Preliminary Services (Component 2) for Council Consideration



Northeast Water Purification Plant Expansion

Q & A

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