

Memorandum



DATE January 5, 2012

TO Trinity River Corridor Project Committee Members: Vonciel Jones Hill (Chair)
Linda Koop (Vice Chair), Monica Alonzo, Scott Griggs, Angela Hunt, Delia Jasso

SUBJECT **Trinity River Corridor Project Update On Environmental Restoration**

At the next Trinity River Corridor Project Council Committee Meeting on Monday, January 9, 2012, the attached briefing will be presented by Rebecca Rasor, P.E., Managing Director, Trinity River Corridor Project. This briefing will provide background information and progress reports on the various environmental restoration projects associated with the Trinity River Corridor Project.

Please contact me if you have questions.



Jill A. Jordan, P.E.
Assistant City Manager



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Attachment

cc: Honorable Mayor and Members of the City Council
Mary K. Suhm, City Manager
A. C. Gonzalez, First Assistant City Manager
Ryan S. Evans, Assistant City Manager
Jill A. Jordan, P.E., Assistant City Manager
Forest E. Turner, Assistant City Manager
Joey Zapata, Assistant City Manager

Kelly High, Director, Trinity Watershed Management
Rebecca Rasor, P.E., Managing Director, Trinity River Corridor Project
Paul D. Dyer, Director, Park and Recreation
Theresa O'Donnell, Director, Sustainable Development & Construction
Rosa A. Rios, Interim City Secretary
Stephanie Cooper, Assistant to the City Manager - Council



Trinity River Corridor Project Update On Environmental Restoration

Trinity River Corridor Project Committee
January 9, 2012

This project addresses a number of regional concerns, though **flood protection** remains the **essential cornerstone** of this multi-faceted effort.

The inter-related components of the project are:

- Flood Protection – September 12, 2011
- Transportation – October 24, 2011
- Recreation – December 12, 2011
- Environmental Restoration – TODAY, January 9, 2012
- Community/economic development – Tentatively February 2012



- Remediation and Reuse
- Habitat Development and Wetland Planting
- Reforestation
- Forest Management Plan



Remediation and Reuse



- Deepwood Landfill site
 - 130 acre site was illegally operated beginning in late 1960s, and caught fire in mid-1990s
 - City was assigned responsibility for cleanup by a Federal District Court order
 - Remediation work consisted of:
 - Relocating and consolidating over 850,000 cy of waste into two areas of 45 acres
 - Adding 1.1 million cy of backfill for cover
 - Installation of perimeter landfill gas collection system
 - Cost of remediation was approximately \$30 million
 - Current site of Trinity River Audubon Center



BEFORE



AFTER



- Elm Fork Athletic Complex
 - City has acquired 138 acres of land off Walnut Hill Lane, west of IH-35E
 - Majority of property used to be operated as the Walnut Hill Landfill
 - Construction is underway
 - Surface debris from previous owner is being removed
 - Additional soil needed to level the site and fill in where the cap has been breached
 - Staff is investigating a water well in the “nature” area to construct a reservoir for aesthetics and irrigation



Remediation and Reuse



Remediation and Reuse



CITY OF DALLAS PARK AND RECREATION

ELM FORK ATHLETIC COMPLEX Landscape Masterplan

workarchitecture



CAYLE COOK & ASSOCIATES



Remediation and Reuse



Rogers-O'Brien Construction



Print #111228705

Date: 12/28/11

Lat/Lon: 32.878278 -96.907928



Aerial Photography, Inc. 954-568-0484

- Elam/ South Loop 12 Landfills (future)
 - Elam Landfill operated from 1957-1980
 - South Loop 12 Landfill operated from 1962 – 1983
 - Both landfills were closed pursuant to TCEQ (then TNRCC) requirements at that time
 - City acquired this property as part of the Dallas Floodway Extension project in 2008
 - As part of acquisition process, preliminary site assessments showed a need for additional soil cover and removal of surface waste
 - City assumed responsibility for remediation at the time of acquisition
 - Estimated cost for total remediation of these landfills is \$12 million (future bond program)



Simpkin's Properties

- 100 Year Flood Plain
- Public Land
- Under Acquisition Process



SCALE 1:4,200
1 INCH = 350 FEET



Elam Landfill

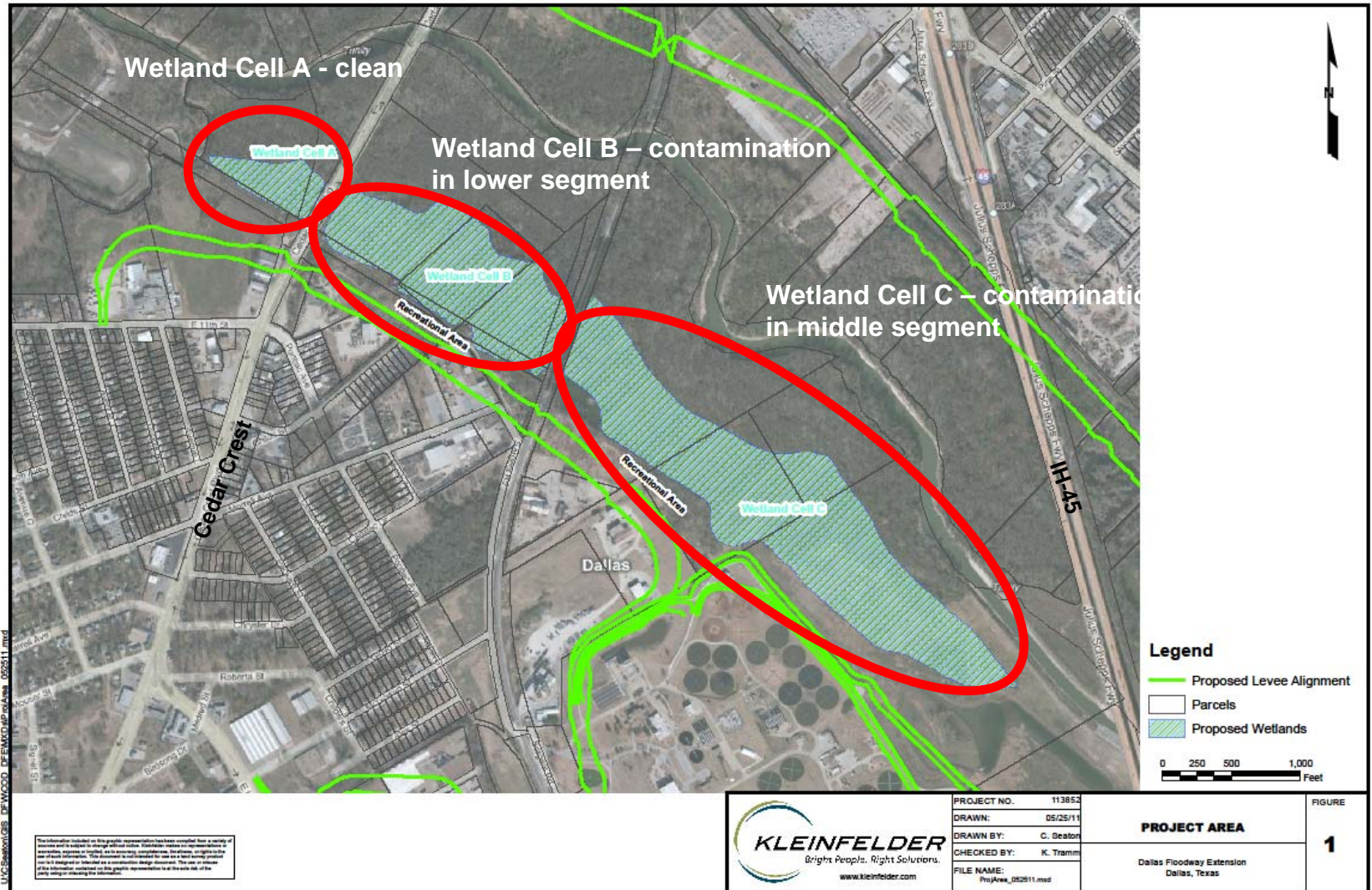
South Loop 12 Landfill



- Upper Chain of Wetlands
 - Phase 1 Environmental Assessments of the properties for this project showed potential for contaminated soils (mostly lead)
 - Corps will not proceed with this project unless the land is “clean”, to TCEQ residential standards
 - Soil sampling determined that contamination was not widespread and primarily at non-hazardous levels
 - City will be responsible for removal and disposal of the isolated areas of contamination
 - Further studies are ongoing and will determine final cost of remediation (potential funding from 1998 bond funds, future bond program)



Remediation and Reuse



- Lamar & Cadillac Heights Levees
 - Corps has initiated soil borings along the footprint of the proposed Lamar & Cadillac Heights Levees to determine if remediation is needed
 - Preliminary indications show some areas of concern but further testing is needed
 - City is responsible for remediation
 - Funding from future bond program



Habitat Development and Wetland Planting



- Although the primary purpose of the chain of wetlands is flood conveyance, they have enhanced the wildlife habitat in the Great Trinity Forest
- Wetland cells added to the Trinity River Audubon Center have also attracted numerous species of wildlife
- The City of Dallas has sponsored many wetland planting events with local volunteer groups, assisted by Corps staff at the Lewisville Aquatic Ecosystem Research Facility



Habitat Development and Wetland Planting



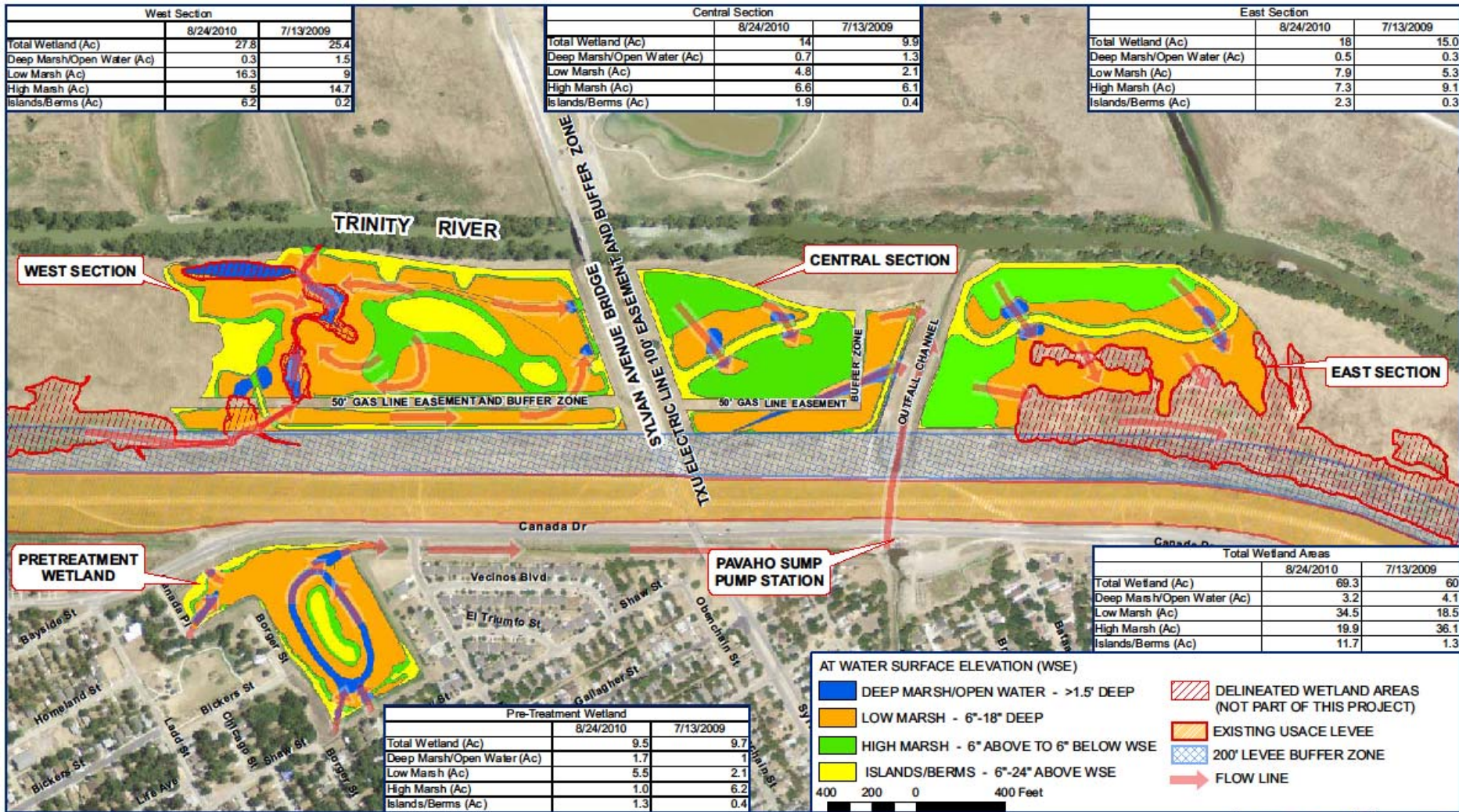
Habitat Development and Wetland Planting



- As part of the City's 2006 Consent Decree, the City is designing a wetland cell near the Pavaho Pump Station
- Objectives of the Pavaho Stormwater Wetland are:
 - Creation of habitat for wetland flora and fauna
 - Water quality improvement of storm runoff reaching the Trinity River



Habitat Development and Wetland Planting



**FIGURE A-1
PROJECT LAYOUT
PAVAO STORMWATER WETLAND
CITY OF DALLAS, TEXAS**

DATE: 8-25-2010

ASIN FILMERS
1349 EMPIRE CENTRAL
SUITE 1000
DALLAS, TEXAS 75247
PHONE: (214) 631-0100
FAX: (214) 631-8100

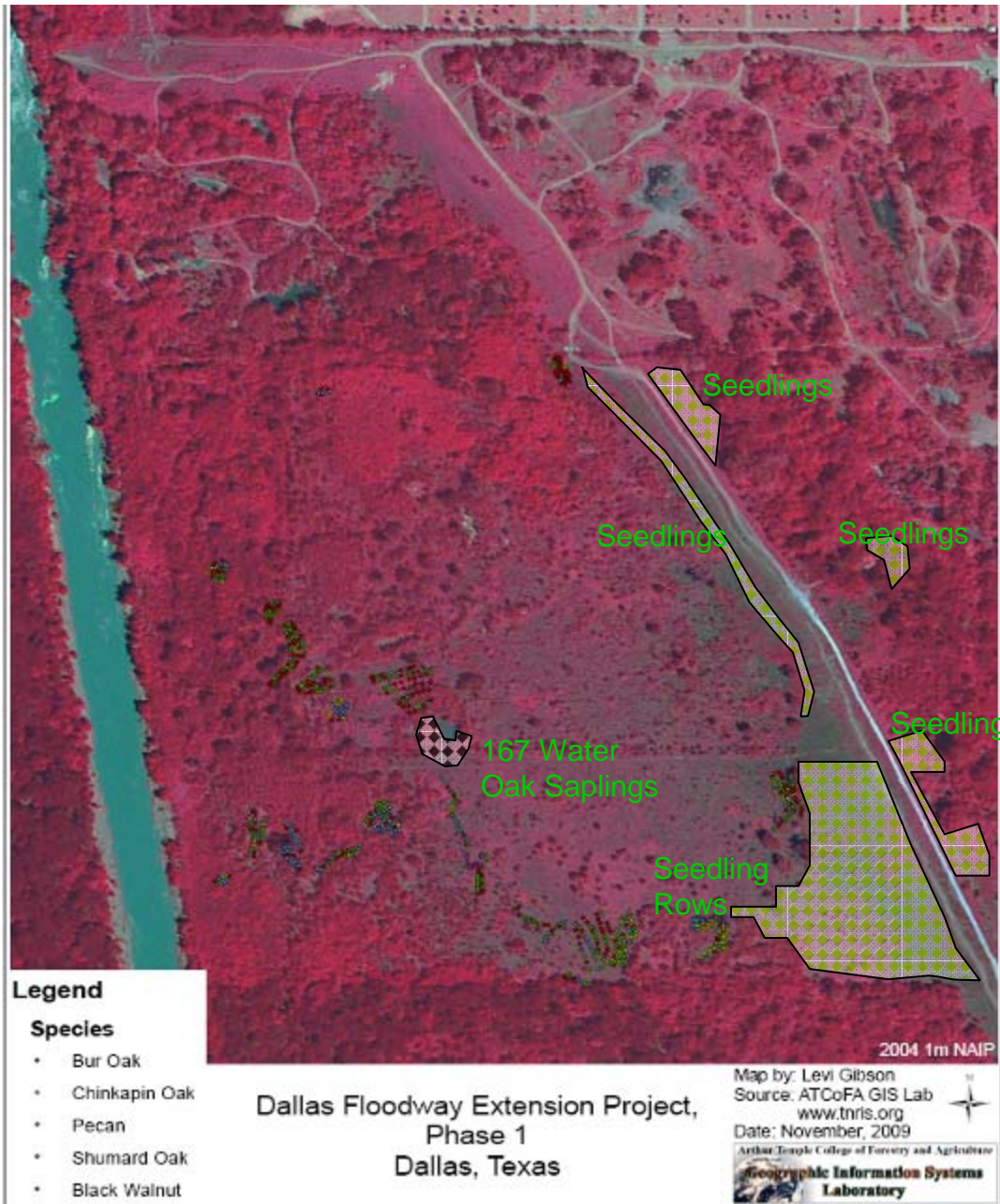
Reforestation



- As part of the Dallas Floodway Extension project, the Corps will plant 1,175 trees in the Great Trinity Forest, as mitigation for the chain of wetlands construction
- Corps has already begun establishing some trees in an area near IH-20 and Dowdy Ferry Rd.
- Future plantings by the Corps will be strategically located throughout the forest



Reforestation



- Seedlings & saplings planted by Corps area near IH-20 and Dowdy Ferry

Forest Management Plan

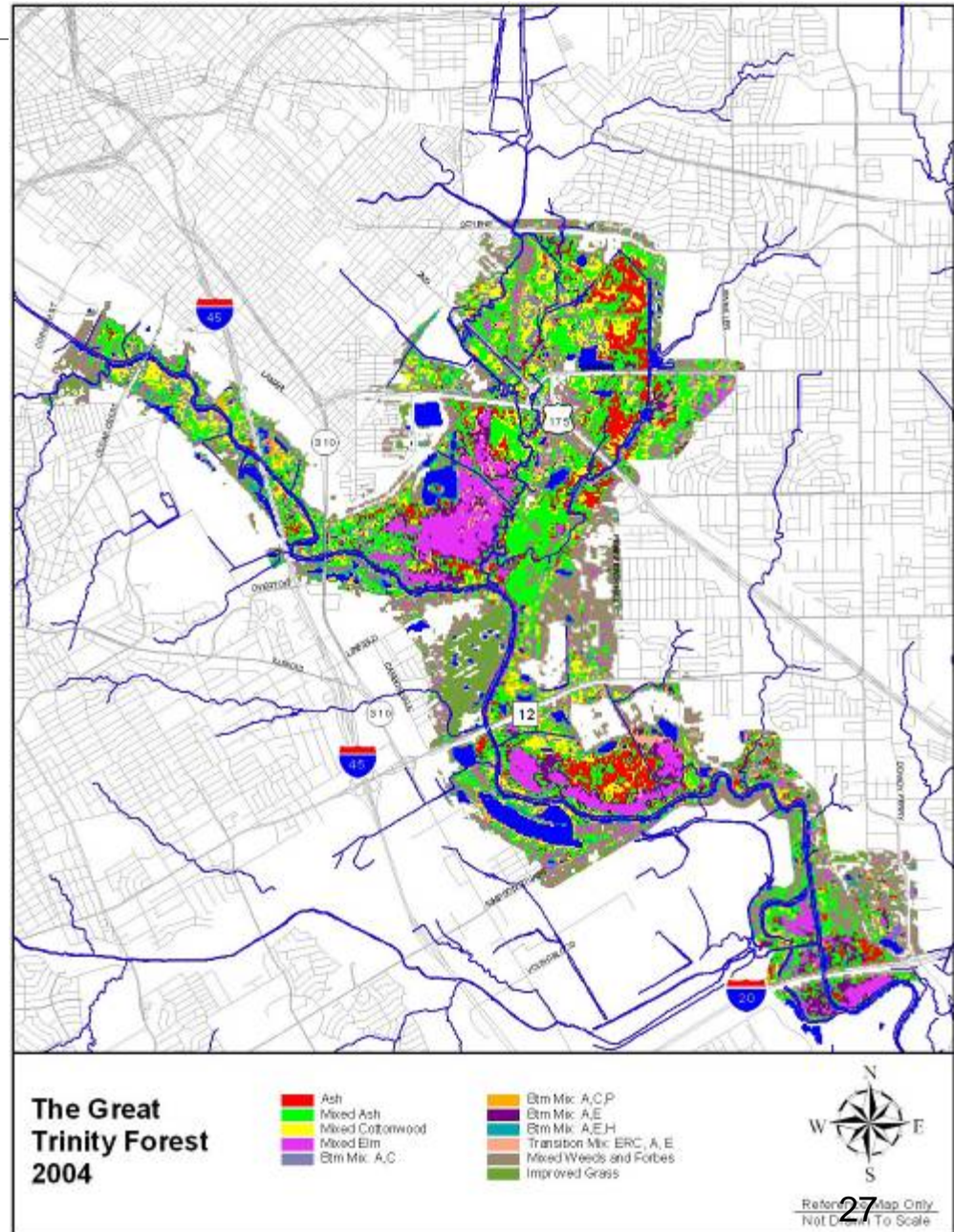


- In 2008, Council adopted the Great Trinity Forest Management Plan, which is a detailed operator's manual on how to care for the forest
- Purpose of the plan:
 - Enhance aesthetics
 - Provide for recreation opportunities
 - Improve water quality
 - Improve air quality
 - Improve habitat and wildlife diversity
- This living document contains 31 volumes and covers a span of 40 years of future operations and maintenance



Forest Management Plan

- The plan includes a comprehensive inventory of existing trees and vegetation, soil types, wildlife, and topography
- Initial cost to begin implementation
~\$900,000 (equipment & staff)
- Annual cost after initial investment ~\$540,000
- The plan has not yet been implemented due to budget and staffing constraints







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