

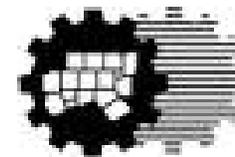


The Lake Worth Greenprint

(working title)

Lake Worth Regional Coordinating
Committee Meeting

February 20, 2014



North Central Texas
Council of Governments

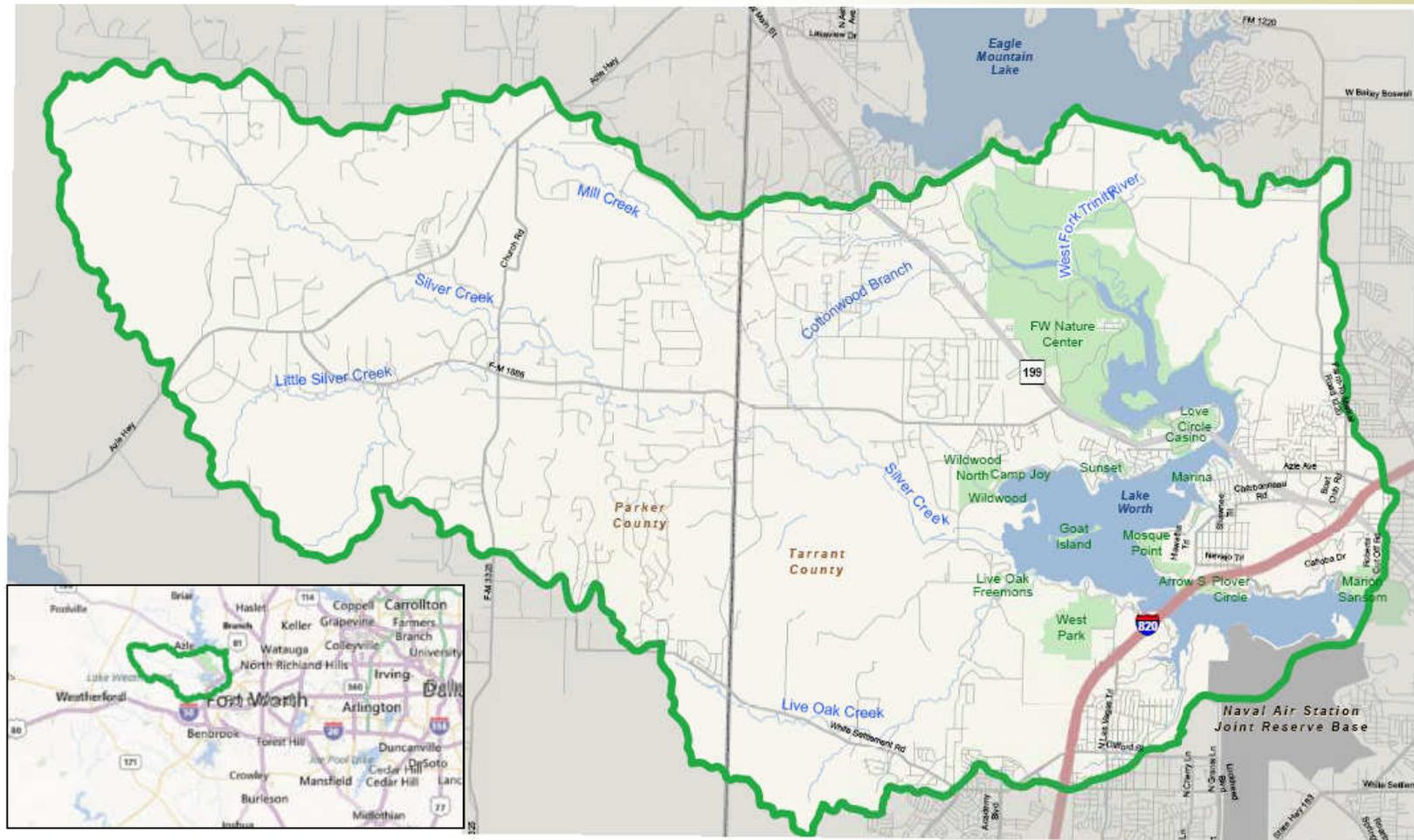
Presentation Items

- Project background
- Water quality maps and discussion
- Recreation maps and discussion
- Next steps
- Questions/comments?





The Lake Worth Greenprint Study Area



The Lake Worth Greenprint

Objectives

1. **Develop** a long-term vision for a Lake Worth open space network, **and involve stakeholders in the decision-making process.**
2. Build upon plans **already complete or underway, e.g. trail alignment study for Lake Worth, Lake Worth Vision Plan, and the Lake Worth CIIP.**
3. Identify lands most important **for lake water quality, as well as other related community driven open space/conservation goals.**
4. **Help the city and stakeholders** evaluate the relative importance of undeveloped land **in the watershed.**
5. **Evaluate** tools that can be used to protect Lake Worth's water quality.
6. **Provide education about** voluntary conservation easements (**CEs**) and their tax advantages to potential partners to make **CE opportunities** more widely understood and employed where appropriate.



Greenprinting Process

Current Conditions Analysis

Goal Setting & Public Engagement

Economic Benefit Study

GIS Data Collection & Mapping

Conservation Finance Feasibility Assessment

Level of Service Analysis

Action Planning / Recommendations



Greenprint Mapping Analysis

- Provides a systematic approach to identify lands that offer the best opportunities for water quality protection and recreation access.
- Uses Geographic Information Systems (GIS) to inform long-term strategies for land stewardship.
- Translates regional values into objective metrics.
- Reflects community's vision and unique watershed resources.
- Offers a unique blend of science and preference.





Lake Worth Greenprint - Mapping Goals

Derived from Greenprint Interviews, Greenprint Polling, and Lake Worth Vision Plan

- **Protect Water Quality and Quantity**
 - High Priority Water Quality Zones
 - Stewardship Opportunities

- **Provide Recreation**
 - Provide Recreation Access
 - Provide Recreational
Connectivity to Lake Worth Trail



Technical Advisory Team (TAT)

Purpose:

Provide expert review and advice regarding design, data input, rationale, outcomes, and mapping

Responsibilities

- Verify the completeness and appropriateness of model criteria
- Recommend best available data sources
- Help insure that defensible science is used for all models and assumptions
- Review input data and model results for accuracy and currency

Lake Worth Greenprint

Technical Advisory Teams (TAT)

TAT 1: Protect Water Quality and Quantity

Brett McGuire – City of Lake Worth
Clair Davis – Fort Worth, Flood Plains
Eric Fladager – Fort Worth, Planning
Ranjan Muttiah – Fort Worth, Stormwater
Paul Bounds – Fort Worth, Water
Rachel Wiggins – NAS Joint Reserve Base
Tracy Michel – NCTCOG
Kyle Wright – NRCS
George Conley – Parker County
Alice Moore – Tarrant County
Mark Ernst – Tarrant Regional Water District
Tina Hendon – Tarrant Regional Water District
Bill Fox – Texas AgriLife
Ken Klaveness – Trinity Waters
Sam Adamie – Tarrant County Public Health

TAT 2: Provide Recreation

Randy Whiteman – City of Lakeside
Brett McGuire – City of Lake Worth
Clair Davis – Fort Worth, Flood Plains
Nikki Sopchak – Fort Worth, Parks &
Community Services
Eric Seebock – Fort Worth, Parks &
Community Services
Paul Bounds – Fort Worth, Water
Suzanne Tuttle – Fort Worth Nature Center
Rachel Wiggins – NAS Joint Reserve Base
Kyle Wright – NRCS
Tracy Michel – NCTCOG
Alice Moore – Tarrant County
Sam Adamie – Tarrant County Public Health



Protect Water Quality and Quantity

Analysis - Identify lands with greatest potential for Water Quality protection (would have the greatest negative impact if developed)

1. Identify criteria that characterize water quality protection priorities
2. Assemble data
3. Translate data into ranked criterion maps
4. Assign relative weightings that reflect Lake Worth watershed priorities.
5. Combine the building blocks into a composite conservation priority map for High Priority Water Quality Zones.
6. Identify areas that offer unique opportunities for stewardship.





Steep Stream Banks



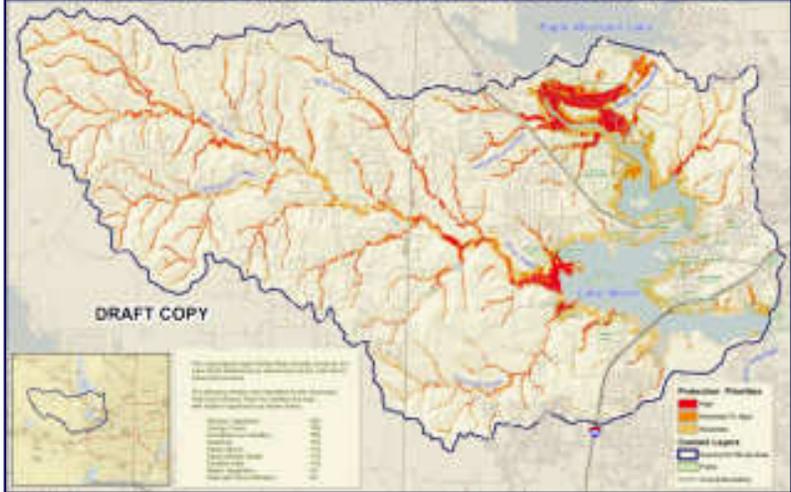
Erodible Soils



Steep Slopes



Lake Worth Greenprint - High Priority Water Quality Zones

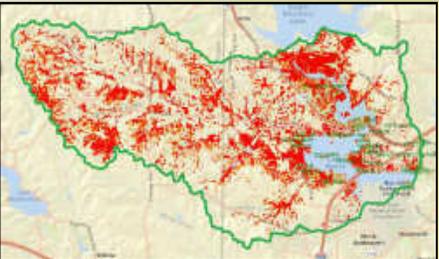


Relative Weighting by Function

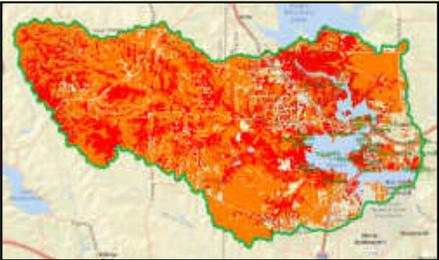
- Nutrient uptake
 - Riparian vegetation 20%
 - Wetlands 13%
- Erosion prevention
 - Steep Stream banks 11%
 - Erodible Soils 11%
 - Steep slopes 11%

- Multiple Benefits
 - Canopy Cover 15%
 - Native Vegetation 4%
 - Floodplains and Buffers 15%

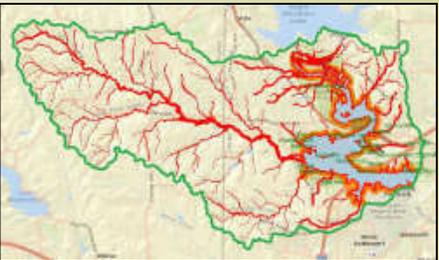
Canopy Cover



Native Vegetation



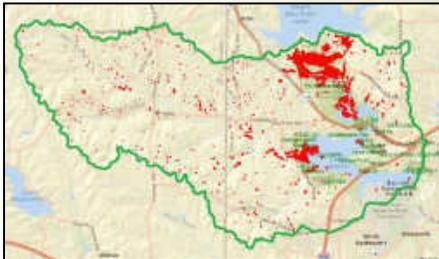
Floodplains and Buffers



Riparian Vegetation

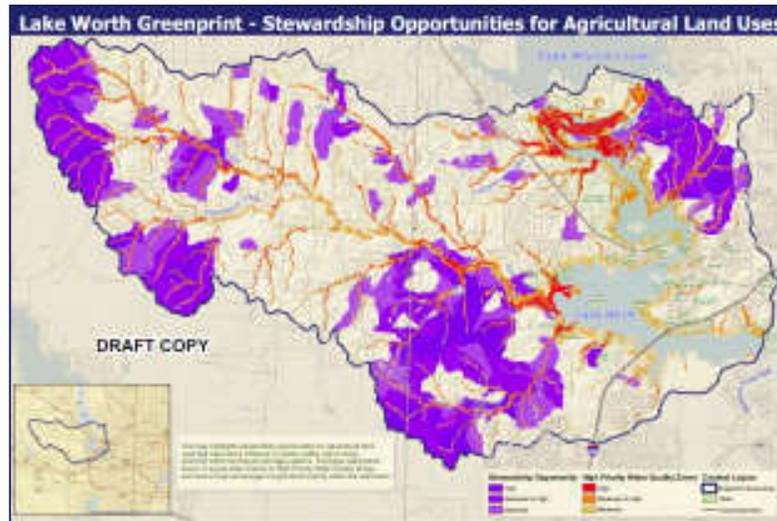


Wetlands

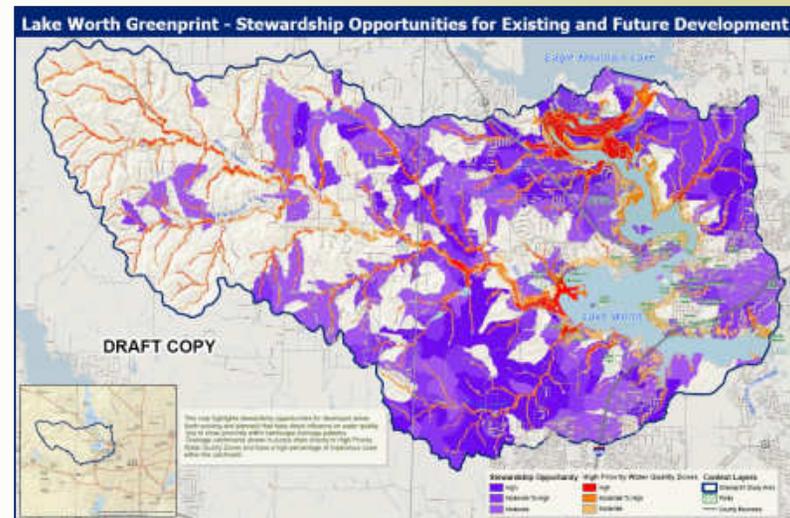




Stewardship Opportunities



Stewardship Opportunities for Agricultural Land Uses



Stewardship Opportunities Existing and Future Development



Provide Recreation Access and Connectivity

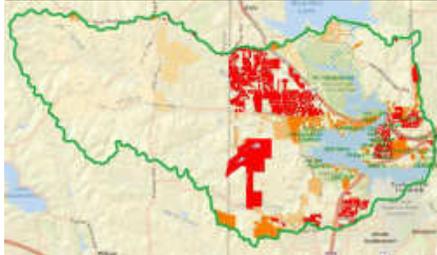
Analysis - Identify lands that enhance opportunities for recreational access and connectivity

1. Identify criteria that characterize recreational priorities
2. Assemble data
3. Translate data into ranked criterion maps
4. Assign relative weightings that reflect Lake Worth watershed priorities.
5. Combine the building blocks into a composite priority map for recreational access and connectivity.

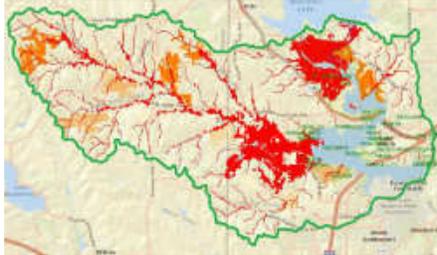




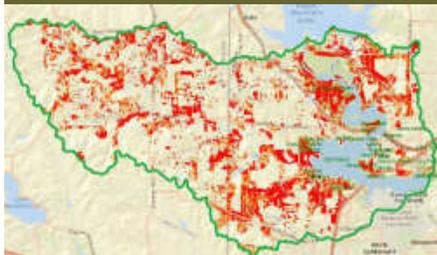
Fitness Zone Priority Neighborhoods



Wildlife Viewing



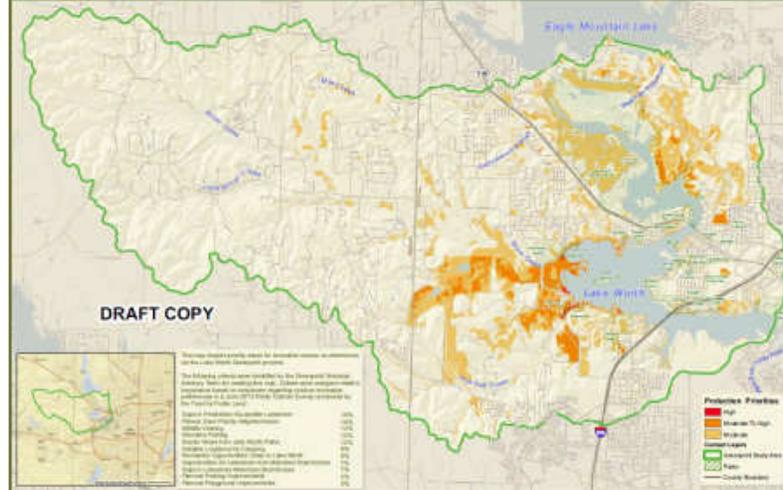
Suitable Locations for Camping



Scenic Views from Lake Worth Parks



Lake Worth Greenprint - Provide Recreation Access to Lake



Relative Weighting based on Outdoor Recreation Preferences Survey
June 2013

- Gaps in Pedestrian-Accessible Lakeshore 14%
- Fitness Zone Priority Neighborhoods 14%
- Wildlife Viewing 12%
- Opportunities for Shoreline Fishing 12%
- Scenic Views from Lake Worth Parks 12%
- Suitable Locations for Camping 9%
- Recreation Opportunities Close to Lake Worth 8%
- Opportunities for Lakeshore Non-Motorized Boat Access 7%
- Gaps in Lakeshore Motorized Boat Access 7%
- Planned Parking Improvements 2%
- Planned Playground Improvements 2%

Gaps in Pedestrian Access to Lakeshore



Opportunities for Shoreline Fishing



Opportunities Non-Motorized Boat



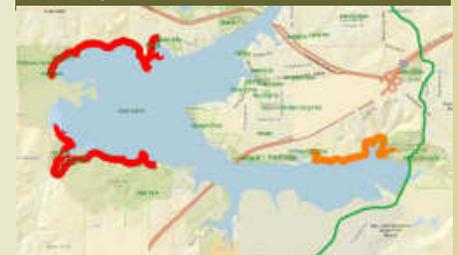
Planned Parking Improvements



Planned Playground Improvements

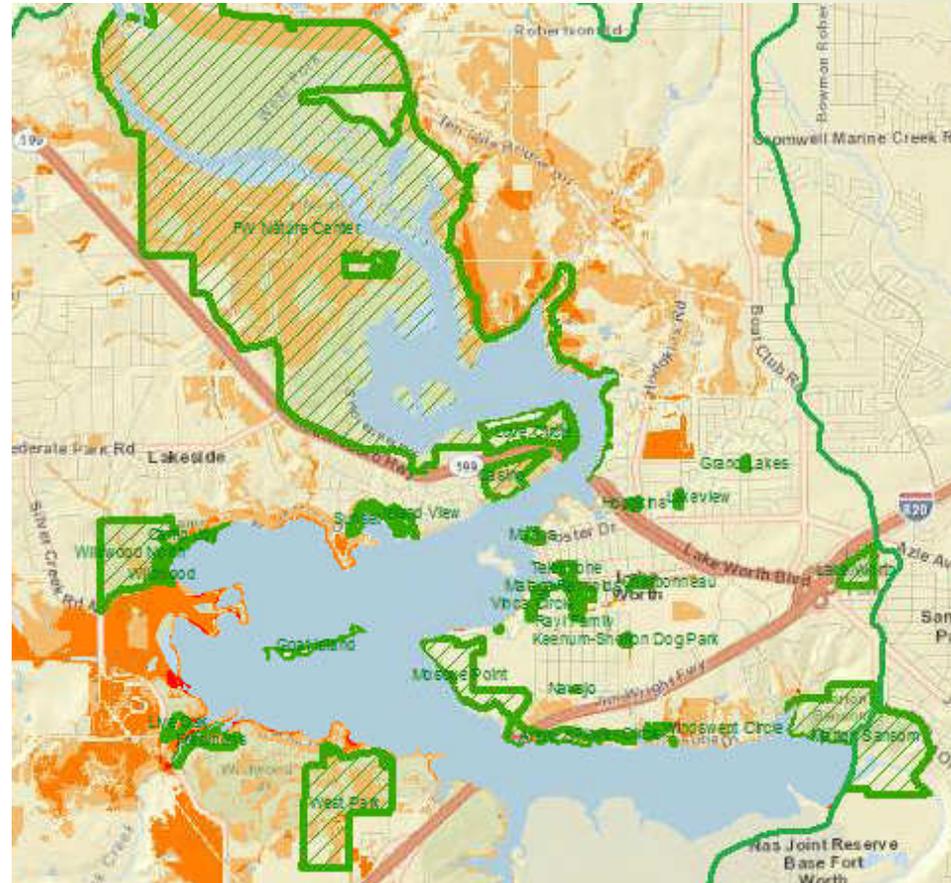


Gaps in Motorized Boat Access





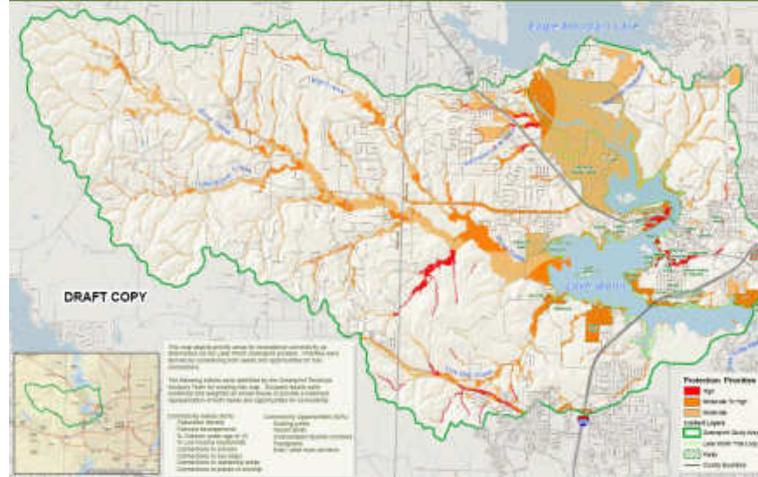
Recreation Access Opportunities



Recreation Access Priorities within existing parks



Lake Worth Greenprint - Provide Recreational Connectivity to Lake Worth Trail



Connectivity Needs and Opportunities

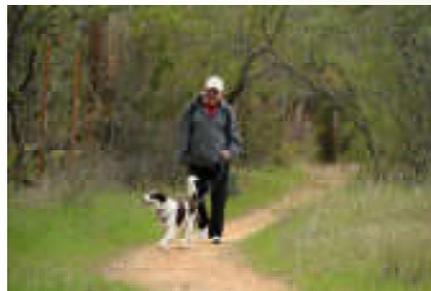
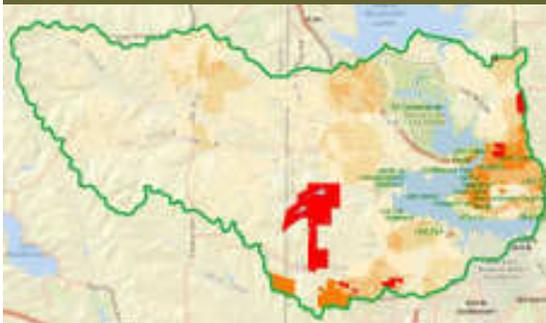
Connectivity Needs (40%)

- Population density
- Planned developments
- % Children under age of 19
- % Low income households
- Connections to schools
- Connections to bus stops
- Connections to residential areas
- Connections to places of worship

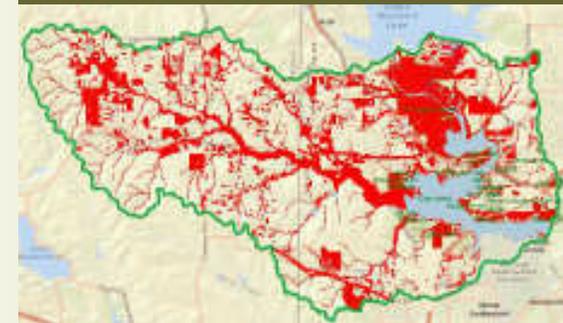
Connectivity Opportunities (60%)

- Existing parks
- Vacant lands
- Undeveloped riparian corridors
- Floodplains
- East / west road corridors

Connectivity Needs



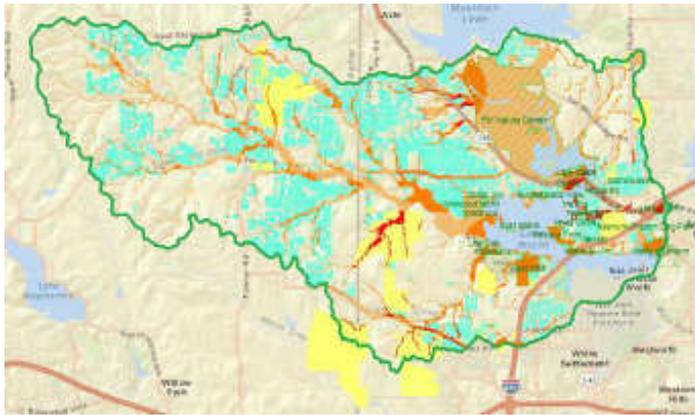
Connectivity Opportunities





THE TRUST *for* PUBLIC LAND
CONSERVING LAND FOR PEOPLE

Connectivity Opportunities



... connecting existing and future neighborhoods



... compared to conceptual trail corridors





Next Steps

Over the next two months:

- **Refine draft Greenprint maps**
- **Conduct research around conservation funding options**
- **Begin discussions of marketing component**
- **Form implementation subgroup**

At the next LWRCC meeting (April):

- **Present results from one additional economic study - Value of riparian corridor protection**
- **Present revised Greenprint maps**
- **Revisit action planning discussion. Includes discussing conservation finance research findings.**

A long, narrow wooden boardwalk made of weathered planks and railings stretches from the foreground into the distance, flanked by tall, dry grasses. The path leads towards a line of trees on the horizon under a heavy, overcast sky. The text "THANK YOU!" is centered in the upper half of the image.

THANK YOU!

February 20, 2014

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