VISION PLAN

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AUGUST 2021

COMMUNITY POWERED WORKSHOP The Nature 🧼 🦝 ASAKURA Conservaticy

CENTRAL

ACKNOWLEDGMENTS

Project Team

Nicole Joslin, AIA, LEED AP Executive Director

Marla Torrado, Ph.D. Planning Director

Shavone Otero Community Coordinator

Thomas Medina Community Planner Amy Belaire, Ph.D. Texas Director of Science and Strategy

The Nature Conservancy

Katie Coyne, AICP, ESA, SITES AP Principal-In-Charge

Claire Eddleman-Heath PLA, LEED AP, SITES AP Project Manager

Kari Spiegelhalter Deputy Project Manager

Andrew Wright Landscape Designer



City of Austin Working Group

Christine Chute Canul Parks and Rec. Dept.

Office of Sustainability

Parks and Rec. Dept.

National Parks Service

Watershed Protection Dept.

Watershed Protection Dept.

Marc Coudert

Megan Eckard

Sydney Garcia*

Leah Gibson

Marie Lancaster

Justin Stewart Parks and Rec. Dept

David Trujillo Watershed Protection Dept.

LaJuan Tucker Parks and Rec. Dept

Staryn Wagner Watershed Protection Dept.

Katie Wettick Urban Trails Program

Jessica Wilson Watershed Protection Dept.

Gibran Lule-Hurtado* National Parks Service

Approvals

Environmental Commission Recommended 4/7/2021

City of Austin Parks and Recreation Department Recommended 8/24/2021

*Working Group Members from the National Parks Service

LETTER FROM THE COMMUNITY WORKING GROUP

Williamson Creek is a gem crossing West to East in South Austin between Oak Hill and McKinney Falls State Park. Residents of the neighborhoods surrounding Williamson Creek have enjoyed this natural beauty for more than twenty years. Community efforts over a number of years, including trash pick-ups, tree planting and the removal of invasive species. have resulted in improving the health of the creek and supporting the native flora and fauna. Central Williamson Creek Greenway is slowly becoming a more welcoming green space for residents to connect with nature and for nature to thrive.

We are thrilled to envision the future of a place we love so dearly with the Central Williamson Creek Greenway Vision Plan. This Vision Plan represents a 12-month process of both Williamson Creek Working Group (WCWG) formal and creative efforts to engage the community and input derived from public engagement. Community engagement activities included: community members recording their own oral histories through WCWG interviews; virtual community picnics; virtual mapping that enabled community members to propose ideas such as food forest planting and hiking trails in and around the creek; several in-person and socially-distanced "Creek Chats" to engage the community; and a final community picnic to unveil the Vision Plan and offer an opportunity to provide community feedback in 2021.

Implementation of the community's spirited ideas for this plan, in part or entirety, will transform Central Williamson Creek Greenway from its current state to one that will serve nature and the community in the future.

Thank you to the St. David's Foundation for providing the grant used to draft this Vision Plan. to Community Powered Workshop for facilitating the process, and to Asakura Robinson for co-creating this Vision Plan with us. We also want to thank members of the City of Austin Working Group for their dedication and time. We are excited to move forward with the support of Austin Parks & Recreation, the Watershed Protection Department, and their affiliates. Lastly, we would like to thank and acknowledge those longtime friends who have supported and participated in efforts to maintain Williamson Creek since 2005.

Sincerely,

The Central Williamson Creek Working Group

Mary Olmstead	Steve Prather
Anna Pittala	Jessica Sager



Community Working Group

Mary Olmstead Anna Pittala **Steve Prather Jessica Sager Nicole Sanford Greg Stevens Michael Usher Esther Weekes**

City Departments

Watershed Protection Department Parks and Recreation Department **Public Works** Office of Sustainability Office of Innovation Housing and Planning Department **Equity Office**

Nicole Sanford Greg Stevens

Michael Usher Esther Weekes

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A Guide to Commonly Used Acronyms

CWCG: Central Williamson Creek Greenway COA: City of Austin PARD: Parks and Recreation Department WPD: Watershed Protection Department CWG: Community Working Group CPW: Community Powered Workshop

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141	
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Central Williamson Creek Greenway Vision Plan

A Note from Community Powered Workshop (CPW)

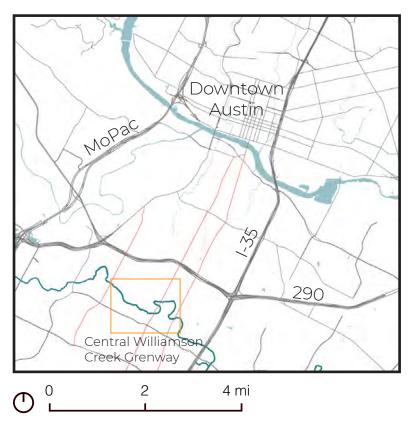
Community Powered Workshop is an Austin-based, non-profit architecture and planning organization that works alongside communities to create powerful and equitable places that promote a healthy future and break barriers of systemic injustice through collaborative planning, communitydriven research and social impact design. We entered this community-led effort to create the Central Williamson Creek Vision Plan in 2017 alongside community members in the Central Williamson Creek area to re-imagine this green space as a resilient, healthy and connected public space. For this Vision Planning process, Community Powered Workshop facilitated the convening of a Community Working Group to bring local voices and perspectives to the table, and a City of Austin Working Group composed of staff from multiple City of Austin departments and the National Parks Service. With the goal to build long-term, collaborative working relationships between community members and public land managers, these working groups place community members and City staff on equal footing in the planning process as a way to balance community priorities that also support a sustainable and healthy environment.

DROJECT OVERVEN



Central Williamson Creek Greenway

Central Williamson Creek is a stretch of nearly continuous greenway along Williamson Creek in Austin, Texas. This section of the creek, which runs for about two miles between S. Congress Avenue and Menchaca Road, and just north of Stassney Lane, is located in a primarily residential area of South Austin. Much of the land directly adjacent to the creek is publicly owned by The City of Austin Parks Department and the City of Austin Watershed Protection Department as a result of a floodplain home-buyout project that transitioned formerly residential land into floodable green space. This land now presents a significant opportunity to create a connected recreational greenway for a park-deficient community in South Austin.



8

Legend





Data sources: City of Austin Google, The Nature Conservancy, USGS

CENTRAL WILLIAMSON CREEK GREENWAY

Home Buyout Program

The homes in the neighborhood adjacent to and within the Williamson Creek floodplain have experienced repeated destructive flooding over the past two decades. All homes in the neighborhoods are at an increased risk as floods continue to intensify due to climate change and Austin's rapid growth and development. Major floods in 1998, 2001, and 2013 prompted a consideration of a buyout program in this area, and in 2015, the first phase of a home buyout program began through a partnership between the City of Austin and the U.S. Army Corps of Engineers. As of 2019, fifty-one properties have been purchased by the city and demolished to prevent future redevelopment. There are a total of four buyout areas along the project site: the Meadow Creek buyout area, Radam Circle buyout area, the Richmond Tributary buyout area, and the Heartwood buyout area (see map on page 9). The land and floodplain recovered from this effort is now owned

and maintained by the City of Austin's Watershed Protection Department with the goal of maintaining it as an open, floodable space to protect adjoining residences from floodina.

Community-Driven Open Space

In addition to the home buyout properties, Central Williamson Creek is bordered by about fifty-eight acres of undeveloped parkland owned by the Austin Parks and Recreation Department and sixteen acres of residential floodplain buyout properties owned by the Austin Watershed Protection Department. This publicly owned land adjacent to the rich biodiverse riparian ecosystem of Williamson Creek presents a unique opportunity to connect residents of South Austin to urban ecological systems, recreation, and gathering spaces.

For more than 20 years residents have discussed and imagined ways to preserve and protect this corridor and make it more connected and accessible where possible. They have dedicated themselves to the greenway through creek clean-ups, invasive species removals and hosted community potlucks and natuer walks. Two community gardens were established in addition to wildflower meadows and the Tom Donovan trail. In 2019 community leaders in the Southwood neighborhood partnered with local non-profits and conservation organizations to initiate a series of community engagement and activation events called Explore! Williamson Creek. Many desires emerged, including interest in a creekside nature trail, social gathering spaces, community gardens, wildlife habitat, and other amenities. The outcome of these activations highlighted the passion community members hold for Williamson Creek and their desire to have a voice in the planning and design process. This vision plan process continues this effort through an engaged Community Working Group feedback process and Community Workshops.



Section A-A': Central Williamson Creek and Surrounding Context at Radam Circle

Previous Planning Efforts

City of Austin Neighborhood planning documents addressing South Austin acknowledge Williamson Creek as a priority area for parks and recreation.

South Austin Combined

Neighborhood Plan: Create bike lanes on major roads, provide a greenbelt path along Williamson Creek.

Southeast Combined Neighborhood Plan: Add more sidewalks, create hike and bike trail along Williamson Creek, add mixed-use zoning.

Southeast Combined Neighborhood Plan: Maintain Williamson Creek in a natural state, improve pedestrian connections, and develop a new neighborhood park.

VISION PLAN OVERVIEW

This Vision Plan report provides a comprehensive guiding vision for the future of the Central Williamson Creek Greenway. The recommendations in this plan were created through close collaboration with a community working group, the City working group, and feedback from the general public.

Chapter 2 | Pages 21-44

Vision Plan

The Vision Plan chapter presents the overall designs for the Williamson Creek Greenway from S. Congress Avenue to Menchaca Road, along with examples of more detailed concept designs for two trailheads at Orland St and S. 1st Street and at Meadow Creek Circle.

Chapter 3 | Pages 45-78

Developing the Vision

This chapter provides a detailed overview of the four community goals that drove this plan, how they were developed, and each goal's corresponding design strategies utilized in the Vision Plan to achieve those goals.

Chapter 4 | Pages 79-86

Community Engagement

This Vision Plan was developed in close collaboration with community members, and this chapter provides an overview of the digital and in-person community engagement process and outcomes. Chapter 5 | Pages 87-120
Existing Conditions

The Existing Conditions chapter provides an overview of current ecological, hydrological, and social conditions of the creek and its immediate surrounding neighborhood.

Chapter 6 | Pages 121-140

Implementation

Chapter 6 lays out a three-tiered approach to funding and constructing the Vision Plan designs over time based on project effort and feasibility, and provides maintenance recommendations.

Image: Constrained of the constrained o

COMMUNITY GOALS

The following four goals emerged from a design process that listened to and engaged with community priorities through a series of virtual and in-person engagement events, described in detail in Chapter 4.

1. A RESTORED, BIODIVERSE GREENWAY

The future Central Williamson Creek Greenway will be a healthy, functioning riparian ecosystem, rich with plant and animal life and free from ecologically destructive invasive species. Volunteer and city ecological restoration efforts, green infrastructure installations, and low-impact trails will preserve the creek's wild character, protect sensitive species, and improve water quality.

2. A COMMUNITY-CENTERED GREENWAY

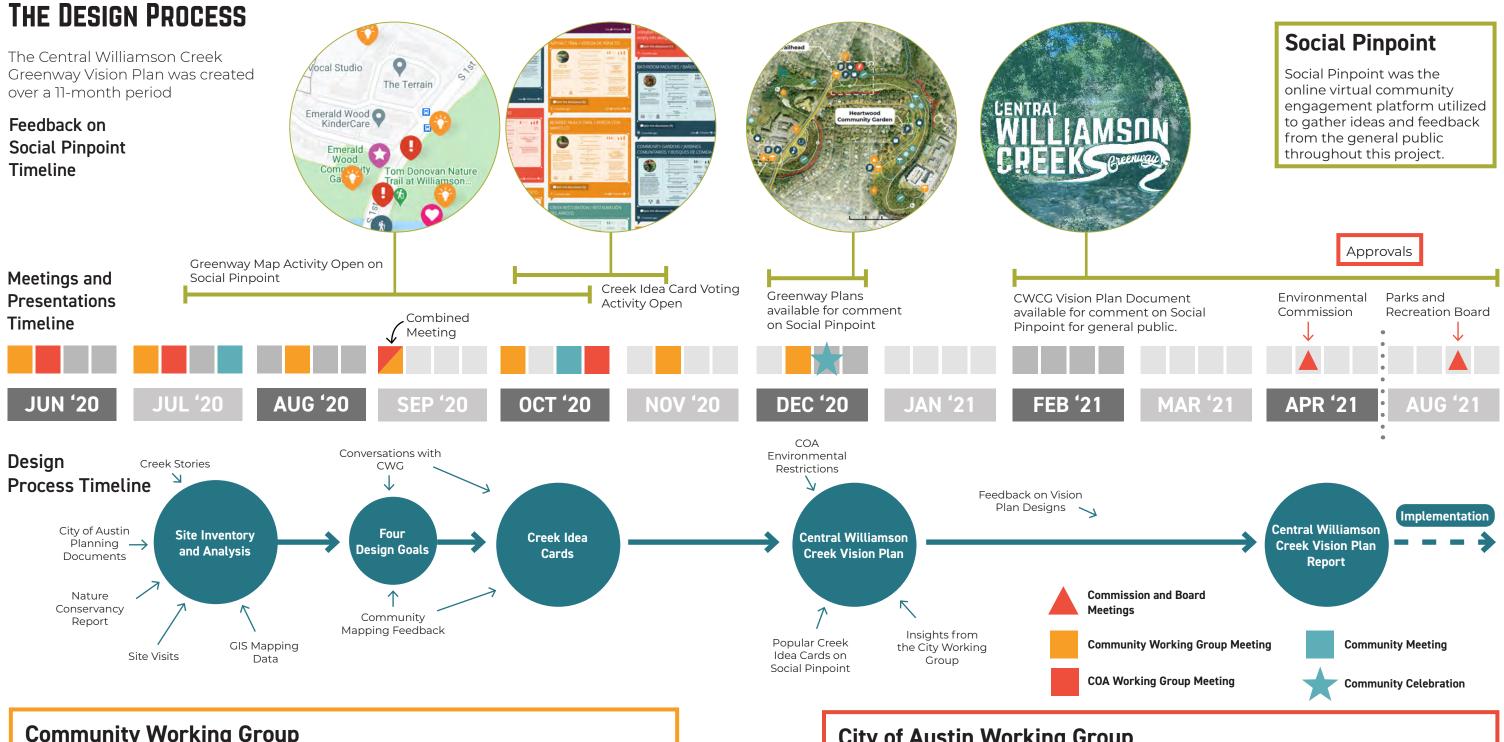
The future Central Williamson Creek Greenway will be a system of trails, parks, community gardens, and other gathering spaces where neighbors and South Austin residents gather to socialize and exercise. Community-built art, urban agriculture, restoration and other projects along the greenway will create a sense of ownership and pride.

3. AN ACCESSIBLE AND VISIBLE GREENWAY

The future Central Williamson Creek Greenway will provide a continuous trail from S. Congress Avenue to Menchaca Road through key land acquisition and low-impact trail construction. Visitors to the greenway will be able to orient themselves through clear wayfinding signage, and learn more about the unique history, ecology, and geology of the creek through educational signage.

4. AN ACTIVE AND CONNECTED GREENWAY

The future Central Williamson Creek Greenway will be an important public health amenity for the neighborhood and the broader Austin community. It will provide a key east-west connection to South Austin neighborhood resources and public transportation. The trail system will connect all communities to the creek and provide accessible creek experiences for those of all abilities. Mountain biking trails, fitness programming, and community gardens along the trail network will further enhance neighborhood health.



Community Working Group

The Community Working Group of eight community members living in the neighborhoods adjacent to the creek was established to collaboratively envision the future of the creek and to build community capacity for future implementation of this plan. The group was given a stipend for participation and met monthly to praticipate in collaborative visioning activities with the design team and to provide feedback on design deliverables.

City of Austin Working Group

The City of Austin Working Group was formed to create a group of experts able to provide advice on parks, trails planning, and environmental restoration, as well as an understanding of the City of Austin's legal requirements for proposed designs. The City Working Group was comprised of 11 City of Austin staff members, representing the Parks and Recreation Department, the Watershed Protection Department, and Office of Sustainability, and the Urban Trails Program. Two members represented the National Parks Service.



OPPORTUNITIES AND CONSTRAINTS

Williamson Creek is a rich ecological and social resource with great potential for increased use by local residents. It provide local residents with a green space for recreation, relaxation, and gathering. The Heartwood and Emerald Wood Community Gardens serve as hubs of community activity. Due to the Watershed Protection Department floodplain buyout program, there are many vacant areas that could provide more opportunities to interact with the creek.

However, there are considerations and limitations to increased community access to the creek. While PARD and WPD own most of the properties along the creek, some sections are privately owned. This poses challenges to the creation of a continuous east-west trail along the creek. Many city-owned properties, meanwhile, are in the Williamson Creek floodplain. In these areas, site improvements must be low-impact and flood safe. In other areas, the creek's rugged terrain and steep slopes limit access.

Floodplains

It should be noted that due to a new precipitation study from the National Weather Service known as Atlas-14, the floodplain maps of the entire city will be re-mapped within the next 3-5 years. The floodplains are shown in this document to reflect an estimation of this future update. It reflects these upcoming changes by showing "estimated" 25 year and 100 year flood events. According to the City of Austin's FloodPro "Fully Developed Floodplain" scenario that can be found at https://www.austintexas.gov/floodpro/

	Many of these challenges also present
	opportunities. Rugged trails can present
2S	moments to highlight south Austin's
	unique geology. Properties in the
	floodplain can host green infrastructure
У	and floodplain restoration. Community
	members can work together to help
	manage invasive plant species. Each
	obstacle presents unique opportunities for
	creativity, teamwork, and stewardship.
٦ I	



OPPORTUNITIES AND CONSTRAINTS MAP

Opportunities Constraints

Bergstrom Spur Urban Trail

> Protect fringe wetlands

Steep slopes limit access

Community Garden

Heartwood

Rimrock

Remove invasive species

5

CENTRAL WILLIANSON CREEK VISION PLAN

Central Williamson Creek Greenway Vision Plan

Central Williamson Creek Greenway Vision Plan

OVERALL VISION PLAN

This Vision Plan design for the Central Williamson Creek Greenway provides conceptual trail and open space designs for Williamson creak, focusing on the Parks and Recreation and Watershed Protection Department-owned land along the length of the creek.

This overall design details the placement and locations of several design components:

1. Trails

Trail Materials

Austin's 2014 Urban Trails Plan identifies Williamson Creek as a Tier 2 trail. indicating that it should be constructed with a paved material. Throughout the community engagement process for this Vision Plan, the community emphasized their desire for natural, low-impact trails along the greenway. This document recommends mulch or bonded mulch trails to align as closely as possible to community desires. However, a City-led preliminary engineering report and corresponding community engagement are recommended as the next steps in the process to create a balanced approach to trail development.

Trail Placement

Trail placement along the creek was determined by the following factors:

1. Slope

Slope analyses identify changes in elevation in the land. Areas with a shallow slope were prioritized for trail placement because it is difficult for trail users to walk on steep slopes. Creating a trail on steep slopes also requires greater ecological disturbance and potential for erosion. See Chapter 5 for a detailed slope analysis.

2. Property Ownership

Trail placement runs primarily along City-owned PARD and WPD property; however, there are several locations where land adjacent to the creek is privately owned. This plan recommends acquiring easements in those properties. In the meantime, trail users may walk in the Cityowned creek bed when water is not flowing in the creek. After rains, trail users should utilize "high water" routes on city sidewalks to avoid trespassing on private property. These high water routes are short detours that guickly reconnect to the greenway trail on City-owned property.

3. Sensitive Ecological Features

Central Williamson Creek's biodiversity and unique geological features are a primary draw for visitors. however, these sensitive natural assets must be protected, and are protected legally through the City of Austin's environmental restrictions. According to this code, trails can not be placed within a 50' buffer of a Critical Environmental Feature (CEF) without an environmental variance. CEFs include seeps, springs, fringe wetlands, and rim rock. The placement of the trail along Central Williamson Creek maintains a 50' distance from these features, unless it is absolutely necessary to pass within the buffer zone to provide trail connectivity.

4. Neighborhood Connectivity

When considering trail placement, community input on common access points to the creek and identification of existing community assets and resources took high priority. This trail placement identifies a network of access points at key intersections, bridges, neighborhoods, and community resources.

2. Vision Plan Elements

Creek Idea Cards

The Vision Plan Elements. which include structures or other features that would features such as signage, community otherwise be destroyed by flooding if they gardens, and community message boards, were in the floodplain. arose from the Creek Idea Card community engagement process outlined in Chapter 4. **4.** Environmental Features This involved the development of 50 Creek Idea cards that were voted "up" or "down in" popularity by community members. Ecological Restoration Both popularity and feasibility were taken Significant opportunities exist for multiple into consideration when selecting the final types of ecological restoration along cards to be included in the plan as a Vision Williamson Creek: Plan Element. Each Element corresponds with one of the four overall goals, which can be identified by their color. See pages 24-25 1. Creek Restoration for a full list of Vision Plan Elements and the 2. Woodland Restoration goals they support. 3. Wildflower Meadows

3. Example Trailheads

Site Selection

Detailed conceptual designs for two trailheads are included in this plan. The purpose of these designs are to show examples of how activated trailheads and community gathering spaces at key nodes along the trail can further social, ecological, and community health goals. These sites were selected based on hydrological, ownership, and social factors.

Meadow Creek Trailhead

This land is buyout property that is owned surroundng environment by visitors. by WPD. This site was selected to take advantage of funding offered by the Stone Berms department for ecological restoration and tree planting on buyout property. It is the Stone berms slow rainwater flow before it largest continuous piece of buyout property enters the creek, helping to remove some and and straddles both the north and south sediments and decrease erosion. sides of the creek.

Orland Trailhead

This land is owned by PARD. It was chosen as an example trailhead because it is out of the floodplain, and can thus have built

- 4. Fringe Wetland Restoration

Opportunities for these four types of restoration are located and identified throughout the Overall Vision Plan. The Chapter 6 Implementation Plan outlines how both volunteer efforts and City-led efforts can work in tandem over time to achieve restoration goals.

Reclaimed Branch Berms or Wattle Fence

Reclaimed branch berms are neatlystacked piles of 3-inch or larger branches that provide habitat and cover for small animal species and line trails to improve wayfinding and minimize impact to the

VISION PLAN ELEMENTS

These vision plan elements included in this design are a result of the "Creek Cards" community engagement process outlined in Chapters 3 and 4.



Creek & Woodland Restoration



Environmental Signage



1. A Restored, Biodiverse Greenway

2. A Community-Centered Greenway

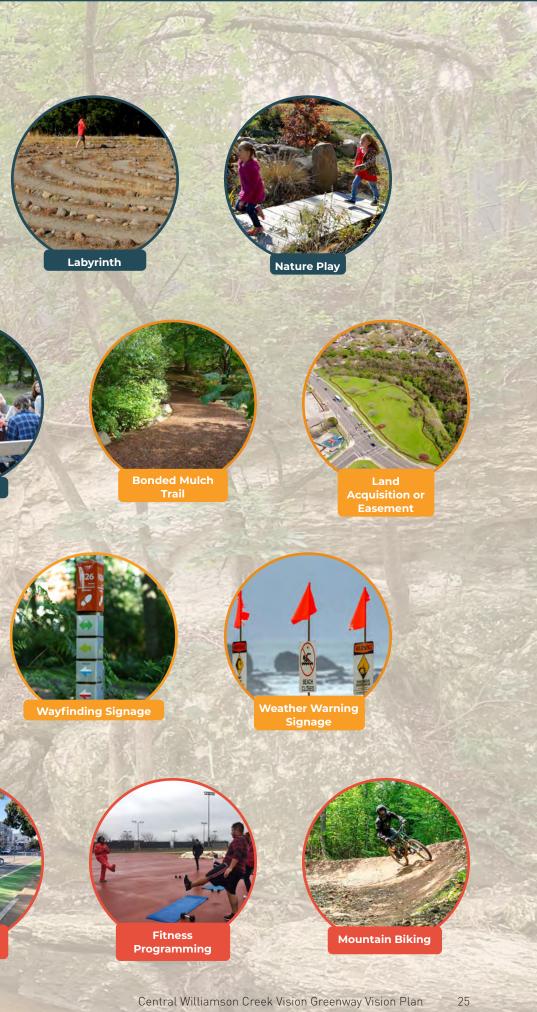
3. An Accessible and Visible Greenway

4. An Active and Connected Greenway

Goal Key

Infrastructure









. Management



Pollinator Nesting Boxes













Natural Surface Trail





Invasive Species Management

Wildflower Planting **Pollinator Nesting** Θ Boxes

ESTIMATED 100 YEAR FLOODPLAIN IMATED 25 YEAR FLOODPLAIN

Meadow Creek Trailhead



Ò

Orland Trailhead

Note: Mapped locations are conceptual. Final locations must be approved by city property owners and meet City of Austin Environmental Code, including protection of tree critical root zones. Refer to the implementation section and appendices.



Trailhead

- **Proposed Nature Trail**
- **Existing Bike Lanes**
- ---**Proposed Bike Lanes**
- **High Water Route**
- **Mountain Biking Trail**
- **City Property**
- ····· Stone Berms
- 1111 **Floodplain Safe Boundary**
- **Tributaries** 1000
- **Geology Highlight**
- **Fringe Wetland Restoration**
- Seep/Spring \bigcirc
- · · · . **Creek + Woodland Restoration**
- 1 **Green Infrastructure**
- **Rim Rock / CEF**
- Wildflower Meadow
- **Food Forest Trees**

500 1,000' 250





ESTIMATED 100 YEAR FLOODPLAIN

TED 25 YEAR FLOODPLAIN



MENCHACA TO **UNION PACIFIC**

28

Central Williamson Creek Greenway Vision Plan



Note: Mapped locations are conceptual. Final locations must be approved by city property owners and meet City of Austin Environmental Code, including protection of tree critical root zones. Refer to the implementation section and appendices.

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500'

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Wildflower Planting

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Classroom

Trailhead

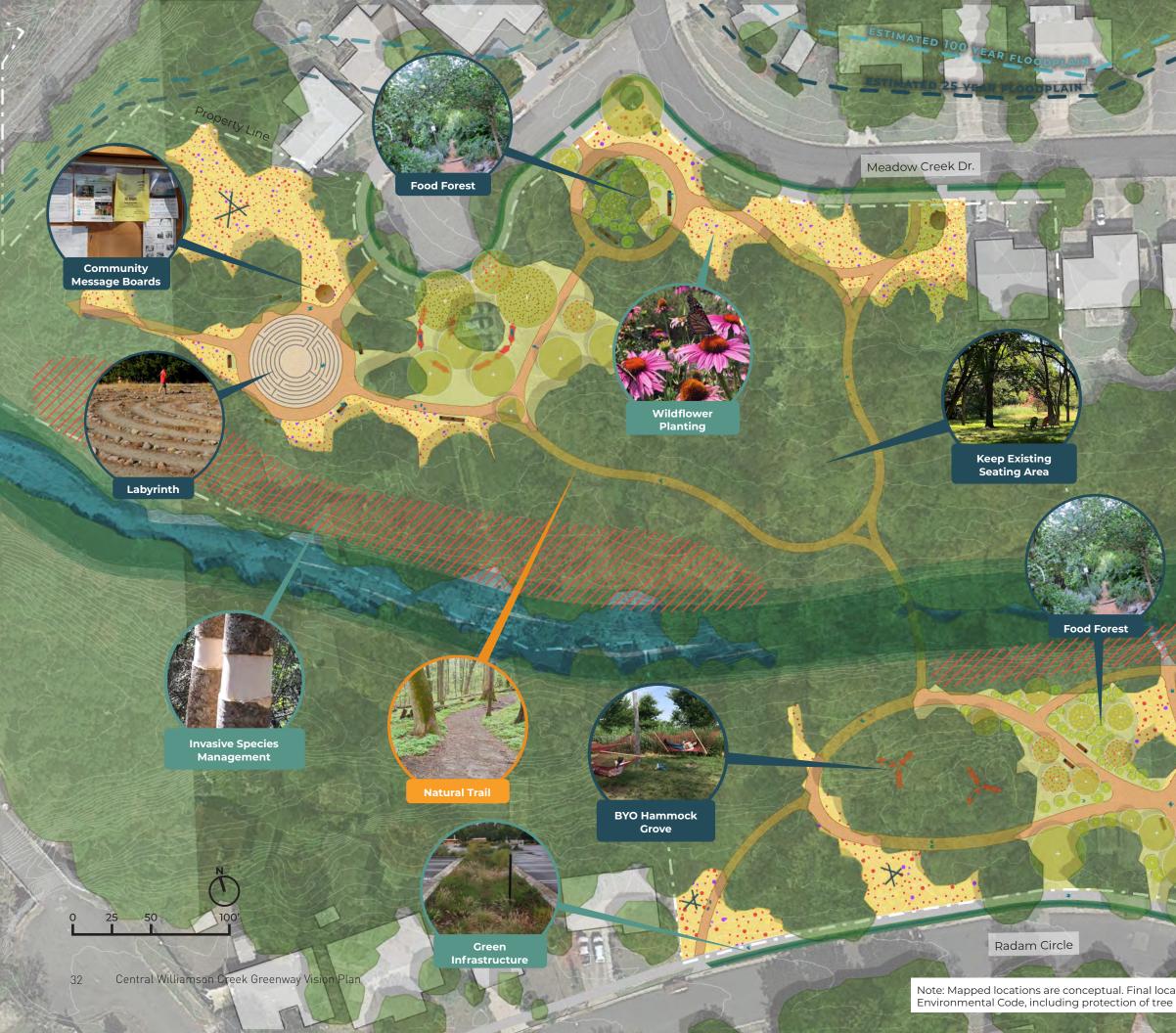
- Proposed Nature Trail
- Existing Bike Lanes
- -- Proposed Bike Lanes
- High Water Route
- Mountain Biking Trail
- City Property
- ····· Stone Berms
- //// Floodplain Safe Boundary
- Creek and Tributaries
- Geology Highlight
- Fringe Wetland Restoration
- Seep/Spring
- Creek + Woodland Restoration
- Green Infrastructure
- Rim Rock / CEF
- Wildflower Meadow
- Food Forest Trees

500'

Union Pacific to South 1st Emerald Wood Community Garden (Existing)

Note: Mapped locations are conceptual. Final locations must be approved by city property owners and meet City of Austin Environmental Code, including protection of tree critical root zones. Refer to the implementation section and appendices.





MEADOW CREEK TRAILHEAD

A group of contiguous floodplain buyout properties west of Emerald Forest Drive presents an opportunity for a major trailhead and community gathering space. Because these properties are within the floodplain, all site improvements must be low-impact and flood safe. Amenities shown here include a fitness lawn, hammock groves, and a labyrinth, providing spaces for neighbors to gather, relax, and stay healthy. Wildflower meadows, pollinator nesting boxes, and green infrastructure help to conserve and improve the creek environment. Other programming ideas include invasive species management, public art, and expansion of existing seating areas.

> Fitness Programming

> > Public Art

Note: Mapped locations are conceptual. Final locations must be approved by city property owners and meet City of Austin Environmental Code, including protection of tree critical root zones. Refer to the implementation section and appendices.

SONLY ISL LO SOUTH CONGRESS



- **Proposed Nature Trail** \bigcirc
- **Existing Bike Lanes**
- **Proposed Bike Lanes**
- **High Water Route**
- **Mountain Biking Trail**
- **City Property**
- **Stone Berms**
- **Floodplain Safe Boundary** ////
- **Creek and Tributaries**
- **Geology Highlight**
- **Fringe Wetland Restoration**
- \bigcirc Seep/Spring
- **Creek + Woodland Restoration** · · · ·
- **Green Infrastructure**
- Rim Rock / CEF
- Wildflower Meadow

Music Grove

Food Forest Trees





Outdoor

Classroom

Invasive Species Management

Tom Donovan Nature Trail

(Existing)

Environmental **Education Signage**

Wildflower Planting

Pollinator Nesting (a)Boxes





Wood Bine D

Heartwood Community Garden (Existing)

Heartwood Dr







Land Acquisition

Weather Warning Signage



Note: Mapped locations are conceptual. Final locations must be approved by city property owners and meet City of Austin Environmental Code, including protection of tree critical root zones. Refer to the implementation section and appendices.

HEARTWOOD BUYOUT AREA Community gathering space

Public Art

Invasive Species Management

ast alt.

Community Message Board

Natural Trail

Food Forest

Current street view looking northwest on Heartwood Dr.

> Green Infrastructure

Heartwood Community Garden

View after implementation

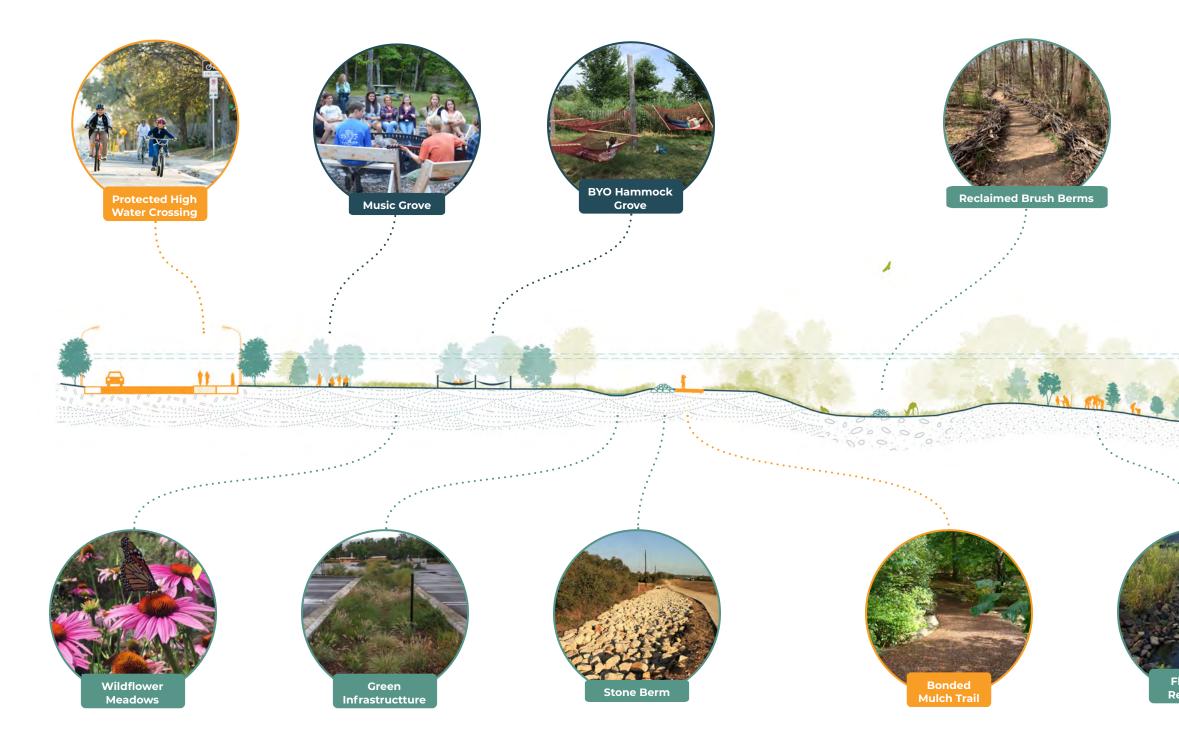
Heartwood Dr.

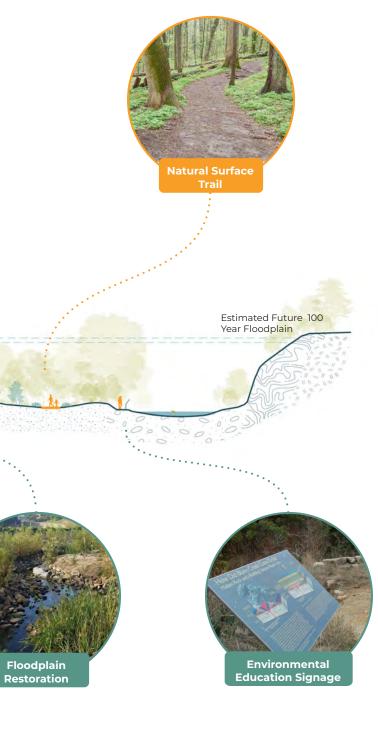
Pollinator Nesting Boxes

Wildflower Planting

View before implementation

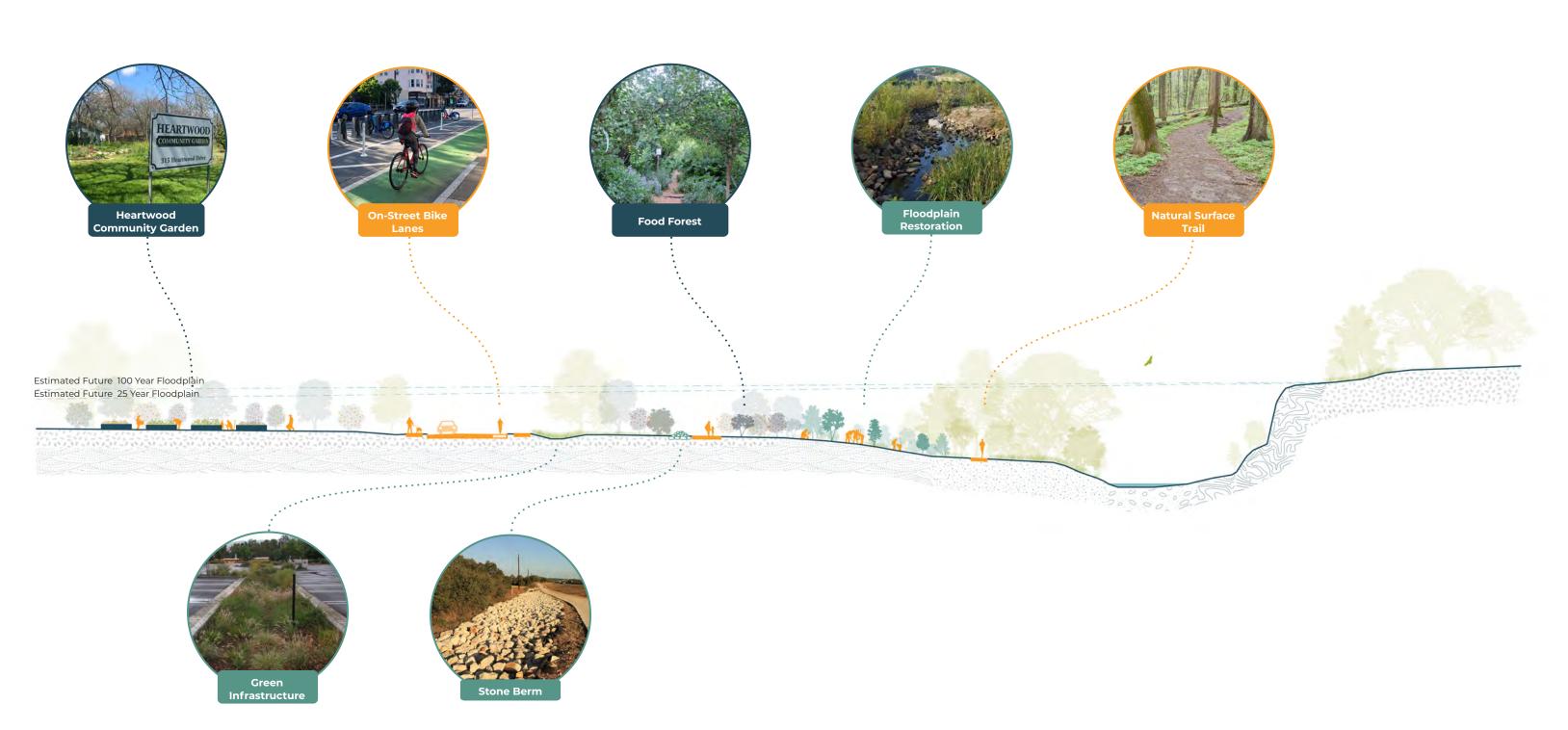
VIEW NORTHEAST AT TOM DONOVAN PARK Section A-A':







VIEW NORTHEAST AT HEARTWOOD COMMUNITY GARDEN Section B-B':





ORLAND STREET TRAILHEAD

A PARD-owned site at the intersection of South 1st and Orland streets presents opportunities for creek access and amenities. This property includes outside the floodplain, meaning it can accomodate a wider variety of programming and site improvements. This flexibility allows the site to serve as a potential hub for activities such as community gardening, environmental education, nature play, and invasive species management. The site also features a steep descent into the floodplain. A boardwalk or other more extensive site improvements may be necessary to ensure creek access and connectivity.



Invasive Species Management



THE FUTURE CENTRAL WILLIAMSON CREEK IS ...

A RESTORED, BIODIVERSE GREENWAY

DESIGN STRATEGIES

Enhance biodiversity through floodplain restoration

Preserve the creek's wild character

Reveal ecology through environmental education experiences

Balance access with conserving floodplain ecology

AN Accessible AND Visible Greenway

DESIGN STRATEGIES

Support community-built projects

Create inviting gathering spaces at key nodes

Integrate community agriculture and agroforestry

A Communitycentered Greenway **DESIGN STRATEGIES**

Integrate accessible creek experiences

Connect to public transportation and community resources

Create activities for all ages

46

DESIGN STRATEGIES

Connect all communities to the creek

Orient through clear wayfinding

Reveal the creek's ecology and history

Prioritize key land acquisition for trail connectivity



ARTICULATING COMMON GOALS

The four primary goals and design strategies were developed in close conversation and collaboration with the Central Williamson Creek Community Working Group, The City of Austin Working Group, and the general public. This community engagement process is described in greater detail in Chapter 4.

Creak Idea Cards

"Creek Idea Cards" were used as part of the community engagement process on the digital platform Social Pinpoint and at in-person, socially distanced events to gain an understanding of the types of programs, trails, amenities, and other uses the Community Working Group and general public desired along the trail. These idea cards were organized into four categories, each helping to achieve one of the four main goals of the project.

Idea Card Placement

The most popular idea cards were selected by the community using a digital voting activity on Social Pinpoint. After this process, the design team placed the cards along the greenway using information from existing conditions, comments on the cards, other community engagement outcomes, and conversations with the Community Working Group.

Idea Card Key

1. A Restored, Biodiverse Greenway
2. A Community-Centered Greenway
3. An Accessible and Visible Greenway
4. An Active and Connected Greenway



Example Idea Card

Name and Description

This section provides a general overview of the toolkit item.

From top-left to bottom-right, these icons indicate the relative cost (low to high), appropriate age-groups (child, youth, adult), flood suitability, and whether the item could be implemented by community volunteers or by a professional contractor.



Goals —

These icons indicate which visioning goals the toolkit item supports. From left to right, the goals are "Conserve the Creek Environment," "Represent the Community, and "Make the Greenway Visible and Accessible." A darkened icon indicates that the toolkit item supports the goal.

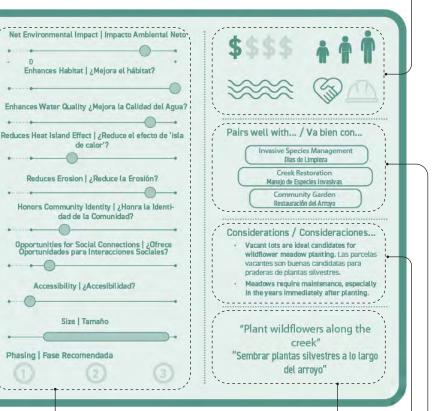
Sliders -----

Limitations

From of the various serve opportunities esent item, as well a phases during le." implemented.

Colors

Each toolkit item is color-coded to one of four different categories: Green for nature, blue for community, orange for access and connectivity, and red for active recreation.



These sliders provide a detailed overview of the various strengths, weaknesses, and opportunities presented by each toolkit item, as well as the appropriate phase or phases during which the item could be

Toolkit items were developed through community input and feedback. This section displays comments and quotes from community members relevant to the toolkit item.

Considerations

Each toolkit item comes with its own unique design considerations. Look here for important comments, caveats, and information.

Pairings

The success and viability of each toolkit item is strengthened when paired with other complementary items. This section provides some suggested pairings.

GOAL #1: A RESTORED, BIODIVERSE GREENWAY

1. Enhance biodiversity through floodplain restoration

Williamson Creek and its floodplain are home to an abundance of aquatic and terrestrial creatures. However, this habitat is threatened by large swaths of invasive species. Floodplain restoration, including the removal of invasive species, and planting of native species, will increase biodiversity.

Toolkit Items:



CREEK RESTORATION WILDFLOWER PLANTING

POLLINATOR BOXES

2. Preserve the creek's wild character

Central Williamson Creek Greenway will be kept as natural as possible. This reflects the desires of the neighboring community to have as little impact as possible on the ecology of the creek and to preserve the sense of wilderness in the heart of South Austin.

Toolkit Items:

NATURAL TRAILS

WILDFLOWER PLANTING

3. Reveal ecology through environmental education experiences

CREEK RESTORATION

Educational experiences along the greenway will facilitate the discovery of the unique ecology, hydrology, and geology of the creek environment.

Toolkit Items:

ENVIRONMENTAL EDUCATION

OUTDOOR CLASSROOM

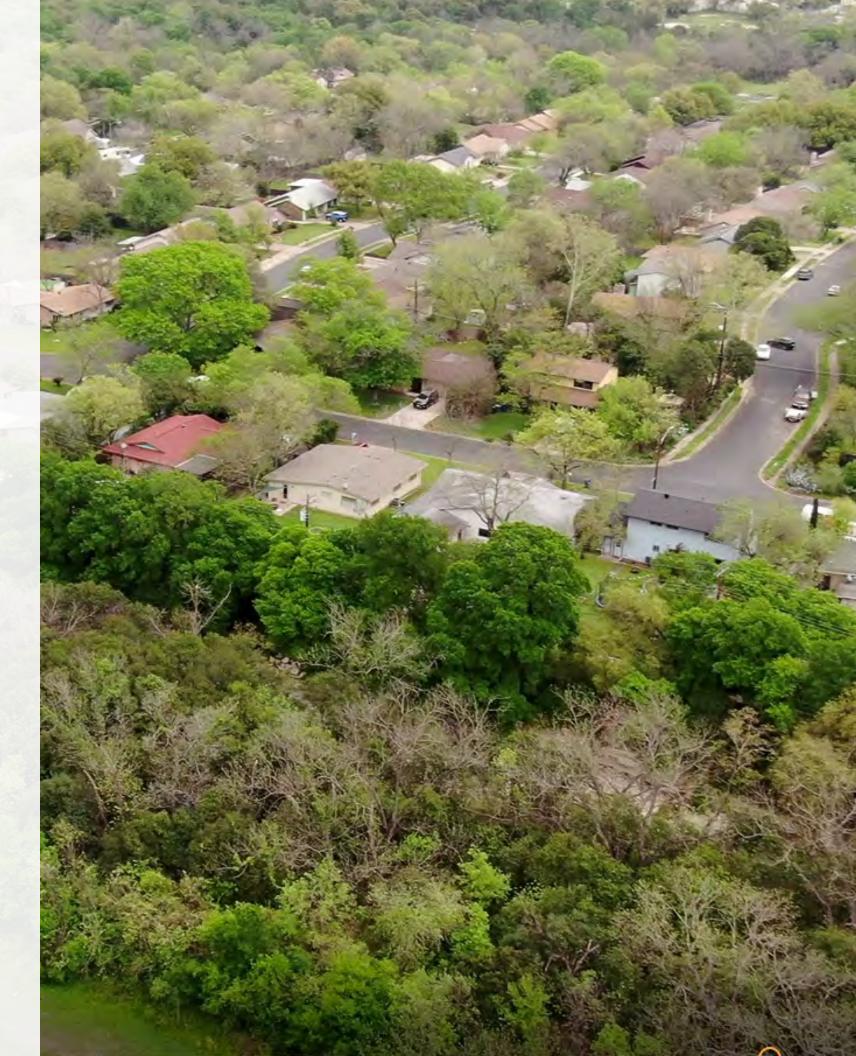
4. Balance access with conserving floodplain ecology

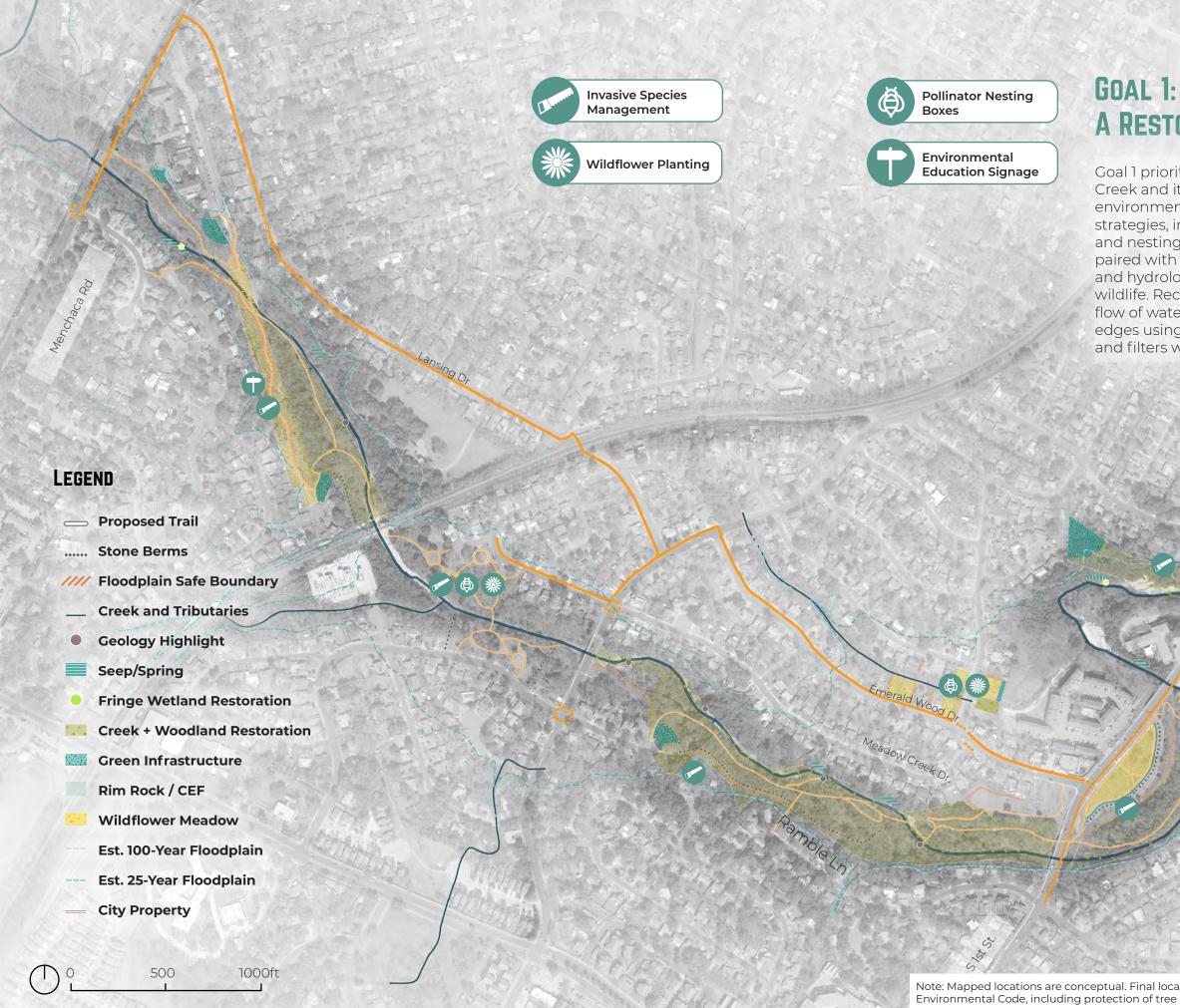
The trails along Williamson Creek will maintain a safe distance from critical environmental features, such as seeps and springs, fringe wetlands, and rim rock. Low-impact trail materials and interventions will be prioritized.

Toolkit Items:

NATURAL TRAILS

CREEK RESTORATION





A RESTORED, BIODIVERSE GREENWAY

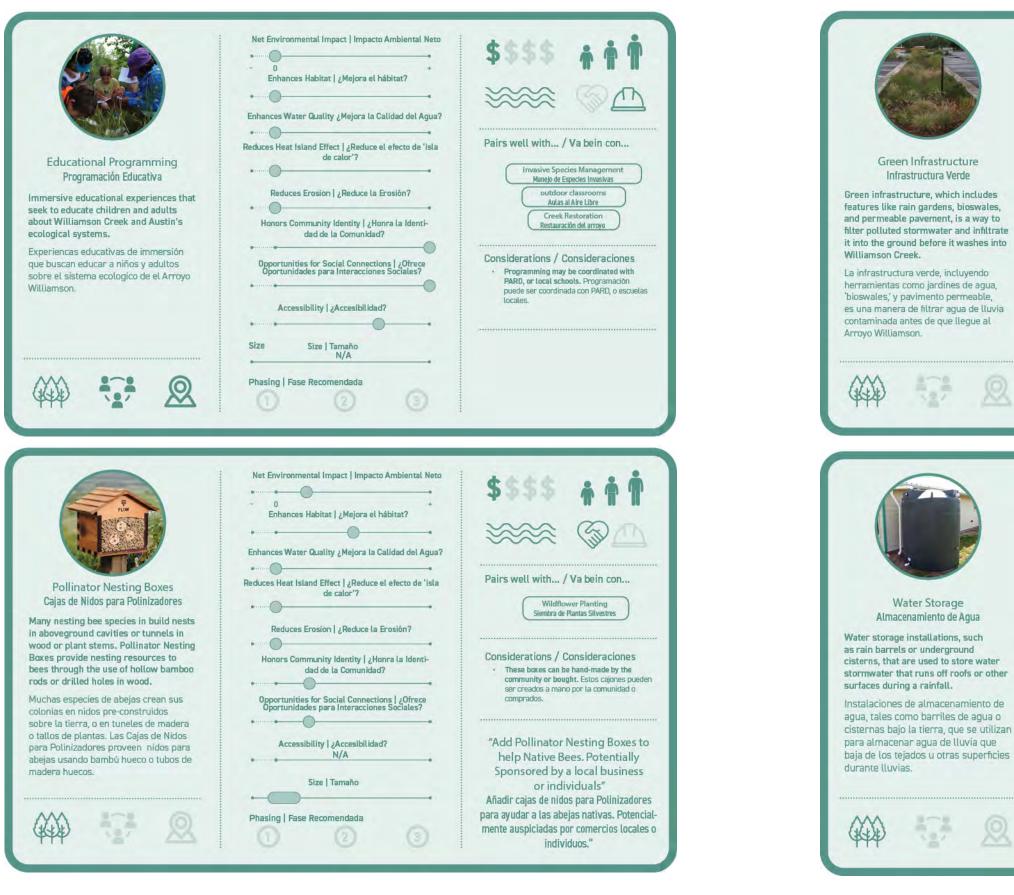
Goal 1 prioritizes the ecological functioning of Williamson Creek and its floodplain, as well as community-based environmental education experiences. Habitat-creation strategies, including pollinator nesting boxes for bees, bats, and nesting birds, and multiple types of restoration, may be paired with educational signage that explains the ecology and hydrology of the creek and its importance to urban wildlife. Reclaimed branch berms and stone berms slow the flow of water, create habitat, and delineate trail and property edges using natural materials. Green infrastructure infiltrates and filters water before it enters the creek.

Note: Mapped locations are conceptual. Final locations must be approved by city property owners and meet City of Austin Environmental Code, including protection of tree critical root zones. Refer to the implementation section and appendices.

Creek Idea Cards



Note: Mapped locations are conceptual. Final locations must be approved by city property owners and meet City of Austin Environmental Code, including protection of tree critical root zones. Refer to the implementation section and appendices.



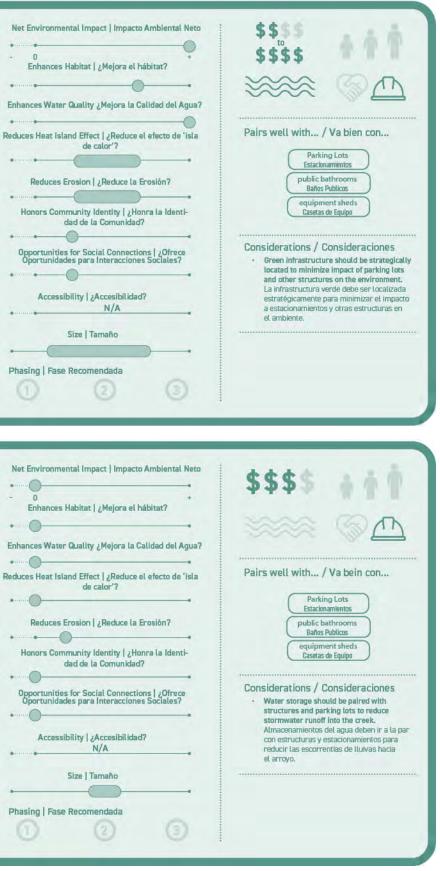
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GOAL #2:

A COMMUNITY-CENTERED GREENWAY

1. Support community-built projects

Improvements to the Central Williamson Creek Greenway have historically been initiated and completed by passionate community members. These community-led projects will be further encouraged with funding from local grant-giving organizations.

Toolkit Items:



PUBLIC ART

2. Create inviting gathering spaces at key nodes

Investments in community gathering spaces at PARD and WPD properties will establish new opportunities for community connection and togetherness at trailheads, community gardens, restoration sites, and outdoor education areas along the greenway.

Toolkit Items:

HAMMOCK GROVES

GATHERING SPACES

3. Integrate community agriculture and agroforestry

BENCHES

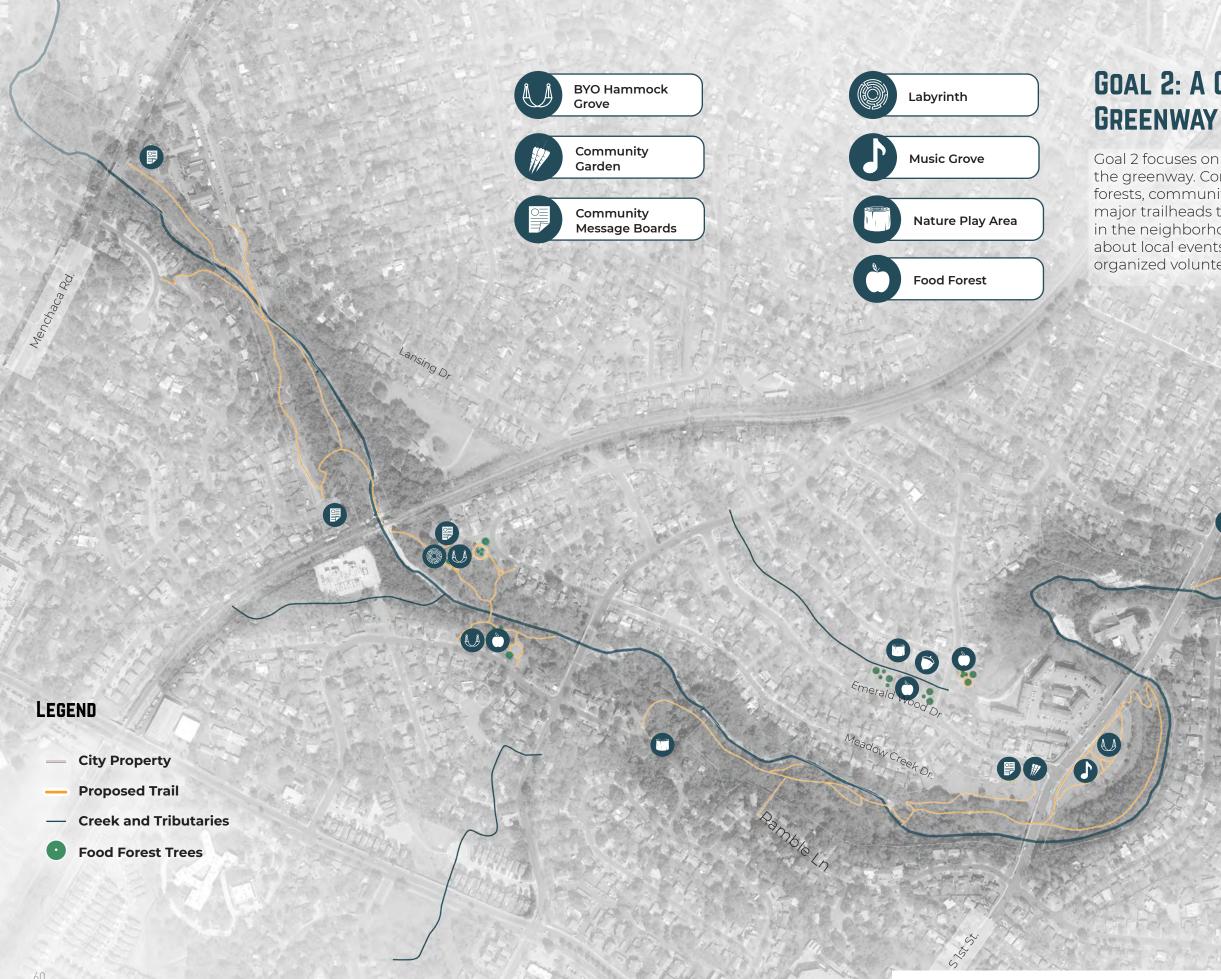
There are currently two community gardens along Central Williamson Creek Greenway. As the neighborhood grows, there will be increased interest in establishing more gardens. Much of the buy-out land represents a significant opportunity for groves of fruit and nut trees.

Toolkit Items:

COMMUNITY GARDENS

FOOD FOREST





GOAL 2: A COMMUNITY-CENTERED

Goal 2 focuses on the community and social aspects of the greenway. Community-built projects, such as food forests, community gardens, and labyrinths, are placed at major trailheads to create places for social connectedness in the neighborhood. Visitors to the greenway can learn about local events at Community Message boards, where organized volunteer opportunities can be posted.



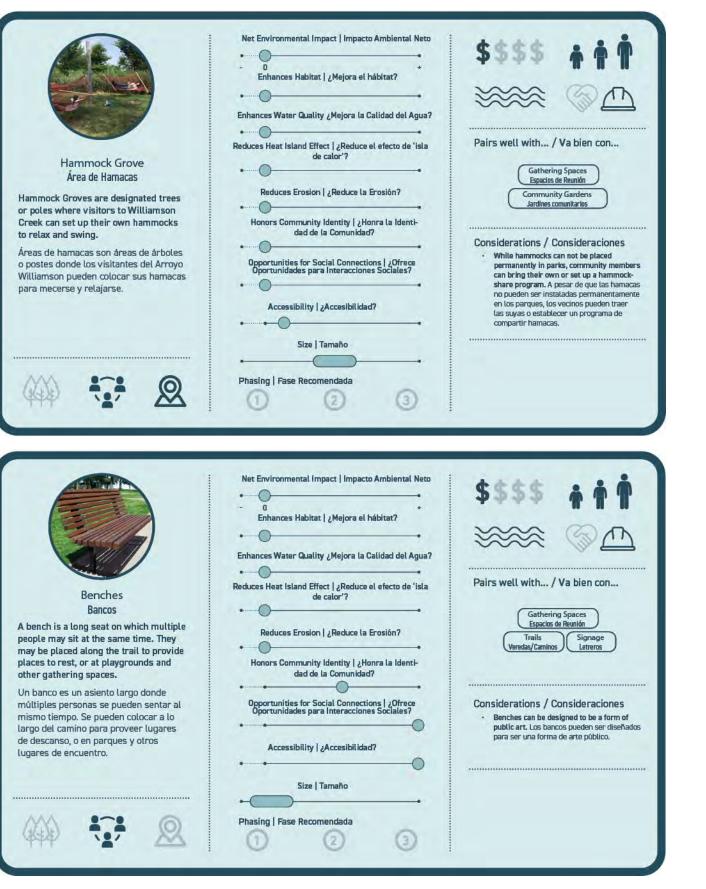
Note: Mapped locations are conceptual. Final locations must be approved by city property owners and meet City of Austin Environmental Code, including protection of tree critical root zones. Refer to the implementation section and appendices.

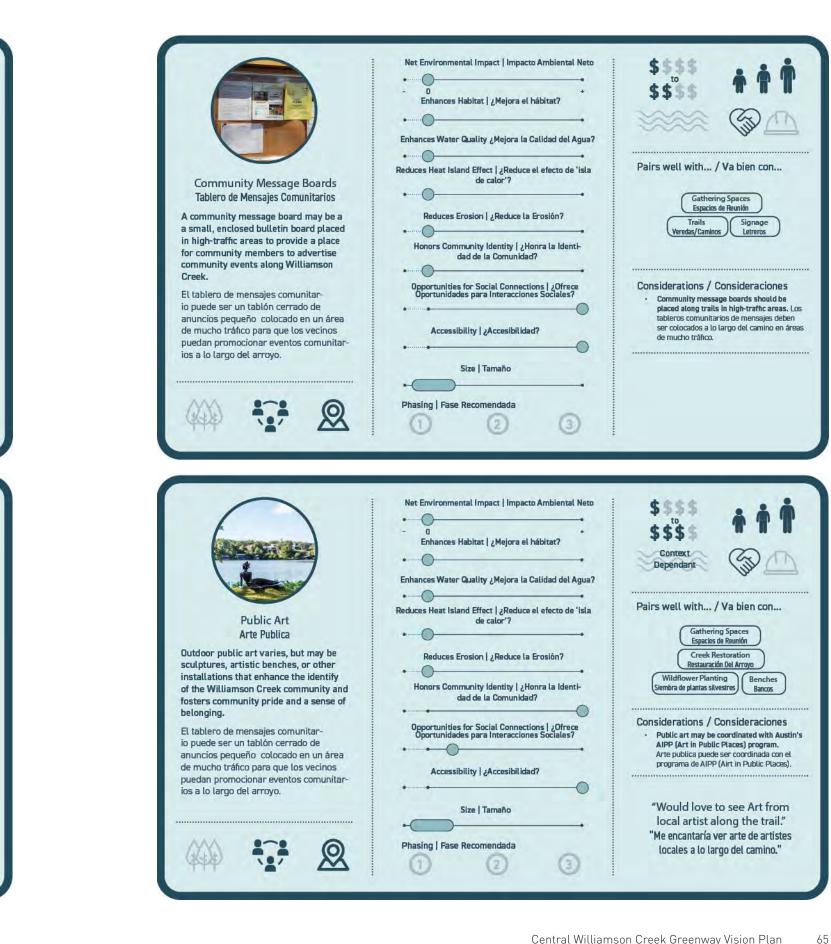
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Creek Idea Cards

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GOAL #3:

AN ACCESSIBLE AND VISIBLE GREENWAY

1. Connect all communities to the creek with low-impact trails

Central Williamson Creek Greenway is a local recreational amenity that should be easily accessible to all surrounding communities through a distributed network of clear, visible trailheads and trails that minimize impacts to the environment.

Toolkit Items:

NATURAL TRAILS

2. Orient through clear wayfinding

Continuous signage along the creek and at trailheads will orient visitors as they enter the creek and make their way along the trail or to neighborhood resources, such as community gardens, schools, and convenience stores.

Toolkit Items:

Design Strategies

SIGNAGE

3. Reveal the creek's hydrology, ecology, and history

Central Williamson Creek Greenway has an abundance of interesting natural features, such as rim rock, fringe wetlands, evidence of past volcanic activity. Educational signage along the trail will reveal their stories.

Toolkit Items:

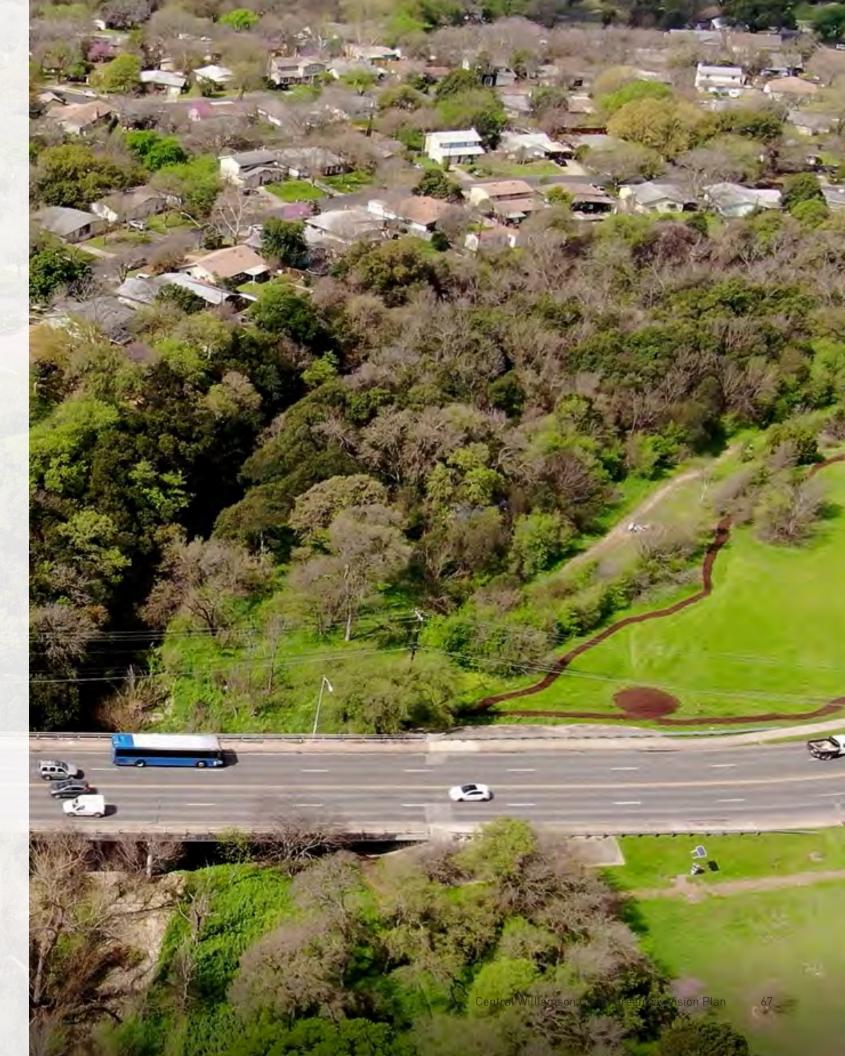
(ENVIRONMENTAL EDUCATION)

4. Prioritize key land acquisition and easements for trail connectivity

Land acquisition from private property owners adjacent to the creek will create a continuous, connected trail along the Central Williamson Creek Greenway.

Toolkit Items:

LAND ACQUISITION AND EASEMENTS





GOAL 3: AN ACCESSIBLE AND VISIBLE

Goal 3 highlights the community desire to make the greenway easily accessed and easy to enter from the street. Well-distributed wayfinding signage both on the street and in the greenway will help visitors orient themselves. Weather warning signage will warn community members of predicted storm events and fastflowing water in the creek. Land acquisition will increase accessibility of the greenway, so visitors can use one, continuous path from S. Congress Avenue to Menchaca

Note: Mapped locations are conceptual. Final locations must be approved by city property owners and meet City of Austin Environmental Code, including protection of tree critical root zones. Refer to the implementation section and appendices.

Creek Idea Cards



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GOAL #4: AN ACTIVE AND CONNECTED GREENWAY

1. Connect to Public Transportation and Community Resources

Completion of a continuous trail along Williamson Creek provides an enormous opportunity for an east-west trail connection throughout south Austin. This trail will connect the surrounding neighborhoods to existing and future destinations, such as bus stops, convenience stores, schools, community gardens, and other community resources.

Toolkit Items:

BIKE RACKS

MOUNTAIN BIKING TRAILS

2. Design for Accessible Creek Experiences

Central Williamson Creek will provide key ADA-accessible creek experiences for those of all abilities.

Toolkit Items:

PATHS

3. Integrate Activities for All Ages

Trailheads and other community gathering spaces will include active and educational activities for all ages, from outdoor classrooms for children to environmental education signage for all ages. At large trailheads, lawns will provide open spaces for all-ages community events and fitness programs.

Toolkit Items:

FITNESS PROGRAMS

Tom Donovan Nature Trail at Williamson Creek Central Greenbelt



Cer exp Too





Future Bergstrom Spur Urban Trail

GOAL 4: AN ACTIVE AND CONNECTED

Goal 4 prioritizes active recreation along the greenway and how trail connections to neighborhood bike routes, adjacent urban trails, and neighborhood resources can make Central Williamson Creek Greenway a key east-to-west hike and bike trail that makes active transportation easy and improves community health. The creation of a "high water route" along urban streets (shown in orange) ensures that the trail will be usable even when the creek is flowing

Note: Mapped locations are conceptual. Final locations must be approved by city property owners and meet City of Austin Environmental Code, including protection of tree critical root zones. Refer to the implementation section and appendices.

Creek Idea Cards

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A: ENGAGEMENT



ENGAGEMENT STRATEGY

To ensure a process of co-creation of the vision for the Central Williamson Creek Greenway between the consultants and community, an extensive and comprehensive engagement strategy with both the Community Working Group and the general public was planned for this project. However, due to the COVID-19 crisis beginning in March 2020 and continuing throughout the entirety of the project, much of this engagement shifted from in-person to online, digital engagement with some outdoor, socially distanced "creekside" events, where participants could pick up a "creekpack" of engagement activities in English and Spanish. These activities could also be mailed to community members upon request.

DIGITAL ENGAGEMENT

The majority of digital engagement took place using a platform called Social Pinpoint. Virtual Community Working Group and City Working Group meetings were held monthly on Zoom (See schedule on pages 14 - 15). Three public virtual creek chats were held on Zoom to demonstrate Social Pinpoint, present designs, and solicit feedback.

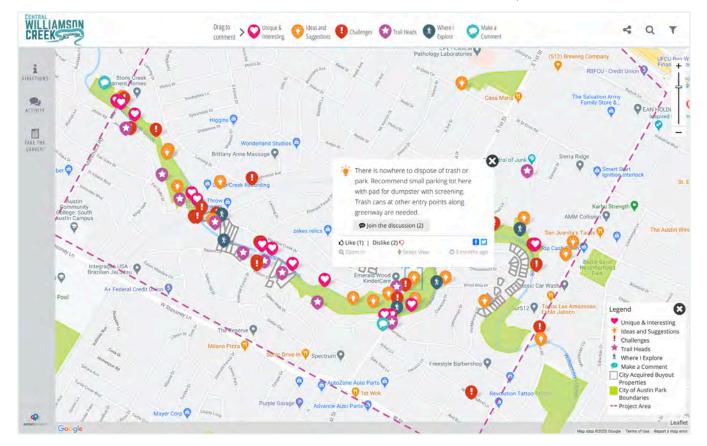
Community Mapping

During the Existing Conditions Phase, community members were asked to use Social Pinpoint to geographically share their ideas, activities, and unique places along the Greenway. Categories included identifying locations for "Unique and Interesting Features," "Ideas and Suggestions," "Trailheads,", and "Challenges." This online mapping activity was open from July 23rd, 2020 to October 13th, 2020.

Toolkit Idea Cards

Findings from the Community Greenway Map and outcomes from the Storytelling activities, conversations with the Community Working Group, and other community engagement activities were then used to craft the four primary goals of the Central Williamson Creek Green Vision Plan.

- 1. A Restored, Biodiverse Greenway
- 2. A Community-Centered Greenway
- 3. An Accessible and Visible Greenway
- 4. An Active and Connected Greenway





These four goals guided the development of 52 unique "Creek Idea Cards," each organized into one of the four goal categories. Community members on the Central Williamson Creek Greenway Social Pinpoint website voted on ideas by adding a thumbs up on ideas they wanted to see at the Greenway or a thumbs down on ideas they did not want to see. After voting closed on November 7th, the design team tabulated the votes, and integrated the highest scoring idea cards into the Vision Plan for the Central Williamson Creek Greenway.

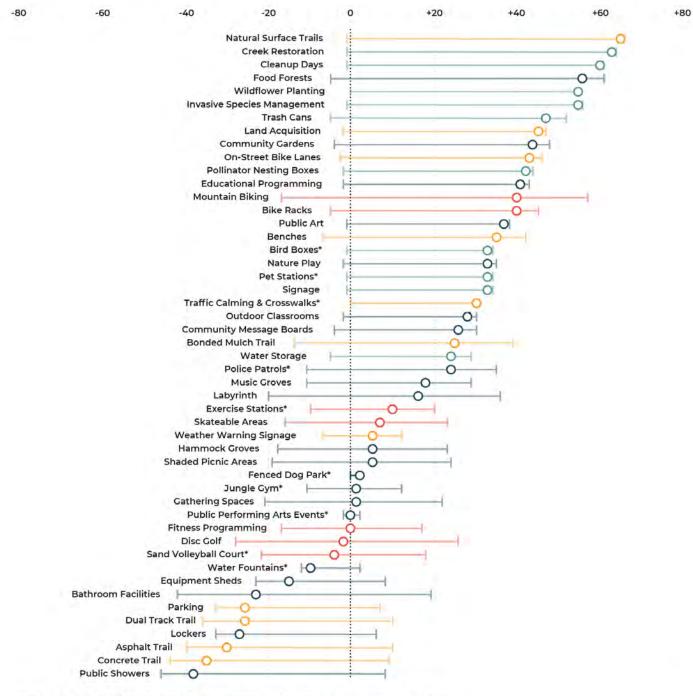
Idea Card Key

- 1. A Restored, Biodiverse Greenway
- 2. A Community-Centered Greenway
- 3. An Accessible and Visible Greenway
- 4. An Active and Connected Greenway

Idea Card Scores

Once the voting period on Social Pinpoint closed, the results were tabulated and summarized. This graphic shows the net score each creek idea card received. Idea

cards received one point when they received a "thumbs up" and one negative point when they received a "thumbs down." The sum of these points produced the net score.



* Indicates ideas added by community members via Social Pinpoint during feedback period

Vision Plan-**Placement of Creek Idea Cards**

After the voting period on Social Pinpoint closed, the idea cards were then placed along the Greenway using information gathered from existing conditions, conversations with both the working group, and insights from the initial Social Pinpoint Greenway Mapping Exercise. A conceptual design for the entire greenway, as well as two trailheads at South 1st and Orland streets and Meadow Creek Drive were available for comment until January 18th, 2021.



You can download the document from the Site Design section above. 1. Are there any ideas you would like to see at locations we don't currently have shown? 3. What do we not have enough of? 4. What do we have too much of? 5. Are there any other community-led ideas that should be added? 6. What are we missing?

7. Do you see anything that doesn't work?

Comment on the Central Williamson Creek Greenway Vision Plan in the forum below!

2. Are there any ideas you see that should be removed from their locations because they are not ideal for that location?

IN-PERSON ENGAGEMENT

Due to the COVID-19 crisis, in-person engagement was limited to four "Creek Chats," where Community Powered Workshop and representatives from the Community Working Groupand representatives from the Community Working Group facilitated an in-person version of the Creek idea card activity. These events were socially distanced and held outdoors at picnic tables along Central Williamson Creek.







ICOMPARTE TU VISIÓN HOY!

EEK.ORG





CENTRAL WILLIAMSON CREEK **PROVIDES A PEACEFUL PLACE FOR PEOPLE TO CONNECT WITH NATURE.**

COMMUNITY CONTEXT

Demographics

The Central Williamson Creek area is surrounded by about 11,000 residents, mostly living in single-family homes. This is a diverse community both racially and economically. Fifty-one percent of residents are non-white, with 45% of that group identifying as Hispanic/Latinx. Fortyfive percent of the neighborhood is lowincome and 19% is middle income.¹ This area is considered to be socioeconomically vulnerable, with high levels of linguistic isolation and refugees.

Community Health

According to the Healthy Parks Plan for Travis, Bastrop, and Caldwell Counties, this neighborhood has high rates of adult heart disease, high cholesterol, poor mental health, and prevalence of stroke. These poor health outcomes can be aggravated and compounded by other demographic factors, including the area's high socioeconomic vulnerability. These are important considerations, as parks are critical public health assets that offer free opportunities to be active. Parks and green space can ease depression and anxiety by providing areas to relax and connect with friends and family. They also cool the surrounding environment and filter out air and water pollutants that can harm health.

Prior Engagement

The Central Williamson Creek Vision Plan expands upon a previous community engagement process that began in 2019 through a collaboration between neighborhood community members, Public Green & Wild, The Nature Conservancy, Community Powered Workshop, and the National Parks Service. Engagement efforts were focused in the Middle Williamson Creek buyout area between Union Pacific Railroad and S. 1st Street. The focus area includes the buyout neighborhoods of Meadow Creek Drive and Radham Circle. The engagement process included four community events as part of a series called Explore! Williamson Creek. Three of these events were "Creek Stomps," which involved a short overview on the creek's ecology and hydrology, a guided community hike, and an opportunity for community feedback. The final event invited those who were unable or uninterested in exploring the creek to attend a more traditional focus group format to garner feedback. In addition to these events. the Watershed Protection Department conducted feedback surveys at the Richmond Tributary Buyout Area, Meadow Creek, Heartwood Buyout Area, and Radham Circle. These surveys were intended to provide feedback to the Watershed Protection Department on how they are currently managing buyout land and how they may manage it in the future to align with community desires.

^{1.} Low-income is defined as households whose ratio of household income to poverty level was less than 2, calculated from the Census Bureau's American Community Survey.

Prior Engagement Outcomes

Many themes emerged from the Explore! Williamson Creek focus group, creek stomps, and the Richmond Tributary survey from Watershed Protection Department.

Explore Williamson Creek!

Strengths

Nature and Wildlife

- Natural beauty of the creek
- Escape from the city
- Sense of discovery and joy

Recreation

- Place to hike or walk dogs
- Chance to connect with nature
- Opportunities to exercise •

Challenges

People experiencing homelessness

Land Management Strategies

- Dislike for unmanaged lots
- Desire for mowing so areas are more aesthetically pleasing

Opportunities

Creek Trail

• Trails that improve connectivity

Community Spaces

• Areas with picnic areas, swings, and amenities

Neighborhood Stewardship

• Community stewardship events

Watershed Protection Dept.

Richmond Tributary Survey

Current Use

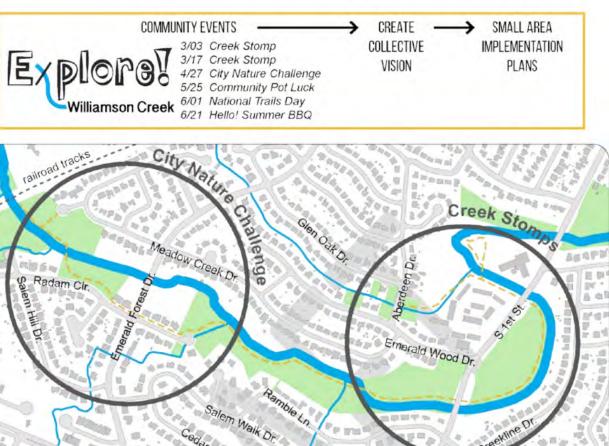
- The area is most commonly used for plant and wildlife observation.
- 63% of those surveyed use buyout areas for recreation.

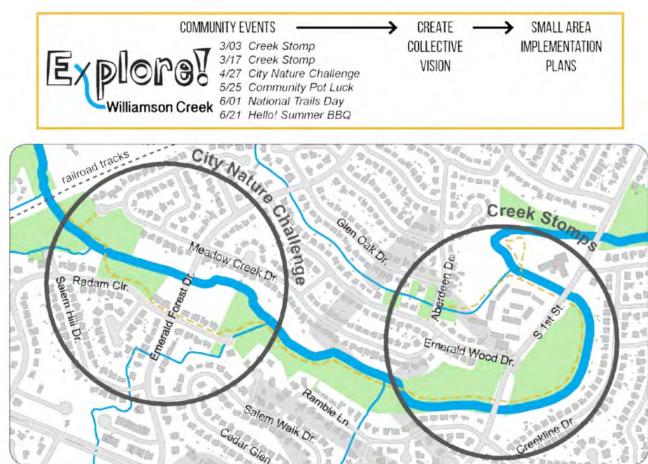
Amenities

65% of survey participants are in favor of adding community amenities, volunteering, and management practices that benefit water quality and habitat for pollinators.

Buyout Landscape Management

- Half of those surveyed are in favor of low-growing meadows to provide clear lines of sight.
- · A majority of participants are in favor of mowing areas near the front of lots and allowing native vegetation to grow near the back of lots by the creek.





Map and schedule of Explore! Williamson Creek Events.

Community Voices

The planning and design of the Central Williamson Creek Greenway emerges out of a close collaboration with community members and builds upon the previous engagement efforts of *Explore! Williamson Creek.* See Chapter 4 for a more detailed overview of the community engagement process for this vision document. Challenge 1:

(2)

 $(\mathbf{1}$

2

3

Balance conflicting community desires for maintained vs natural open spaces.

Challenge 2:

Balance access with people experiencing homelessness.

Opportunity 1: Trailhead and Community Gathering Space

Opportunity 2: Continuous trail along Central Williamson Creek.

Opportunity 3: Gathering space with community gardens and food forest.

Community Voice

"I remember walking along the creek bed and noticing how all the urban noise - traffic, sirens, etc. - were muted."

Community Voice

"Catching turtles, learning to skip rocks, building forts out of the junk that washed in were how I spent my summers with friends."

Community Snapshot

Legend

- Community Garden
- School
- Fresh for Less Site



COMMUNITY

Central Williamson Creek Greenway Vision Plan



CENTRAL WILLIAMSON CREEK IS A GREEN RIBBON OF BIODIVERSITY THROUGH SOUTH AUSTIN.

LOCAL ECOLOGY

Williamson Creek stretches across the Environmental Protection Agency's Level 3 Edwards Plateau and Blackland Prairie Ecological Regions. The Edwards Plateau ecoregion is characterized by thin limestone or granite soils and the Blackland Prairie region has thick clay soils. Each of these characteristic soils host different types of native plants, thus the **ecotone² between** these two ecoregions produce conditions that are very biodiverse.

These open spaces surrounding the creek are rich with biodiversity due to the alluvial sediments and availability of water, which create favorable conditions for a broad diversity of plant and wildlife species. The past few years have seen a community effort to document local biodiversity in Williamson Creek using iNaturalist, a citizen science phone app that identifies and records plant and animal sightings. Both native and invasive plants have been documented along the creek. Citizen scientists have recorded more than 305 nature observations of more than 171 species within the Central Williamson Creek Greenway. While the most observed wildlife species by citizen scientists include common species such as raccoons, woodpeckers, and fox squirrels, many sightings record less common species such as Barred Owl (*Strix varia*), Green Heron (*Butorides virescens*), and American Basketflower (Centaurea americana).



Havhurst's Scallopwing and Buttonbush



for urban wildlife.



The wildflowers along Williamson Creek provide habitat and forage

Roseate Skimmer Dragonfly

^{2.} Ecotone - A region of transition between two biological communities.

Vegetation

Vegetation along Williamson Creek and in its floodplain is dominated by large areas of woody vegetation interspersed with intermittently mowed wildflower meadows in buyout parcels owned by the Watershed Protection Department. Patches of fringe wetlands, especially near seeps and springs, are scattered throughout floodplain. Many areas along the creek are dominated by invasive woody and herbaceous vegetation, most notably stands of Glossy Privet, Giant Reed, and Chinese Tallow. Areas dominated by invasive species should become high priority areas for invasive species management per the City of Austin Invasive Species Management Plan published in 2012.

Challenge 1:

(1

(2)

(1

2

3

Balance sensitive ecology with community access and recreation.

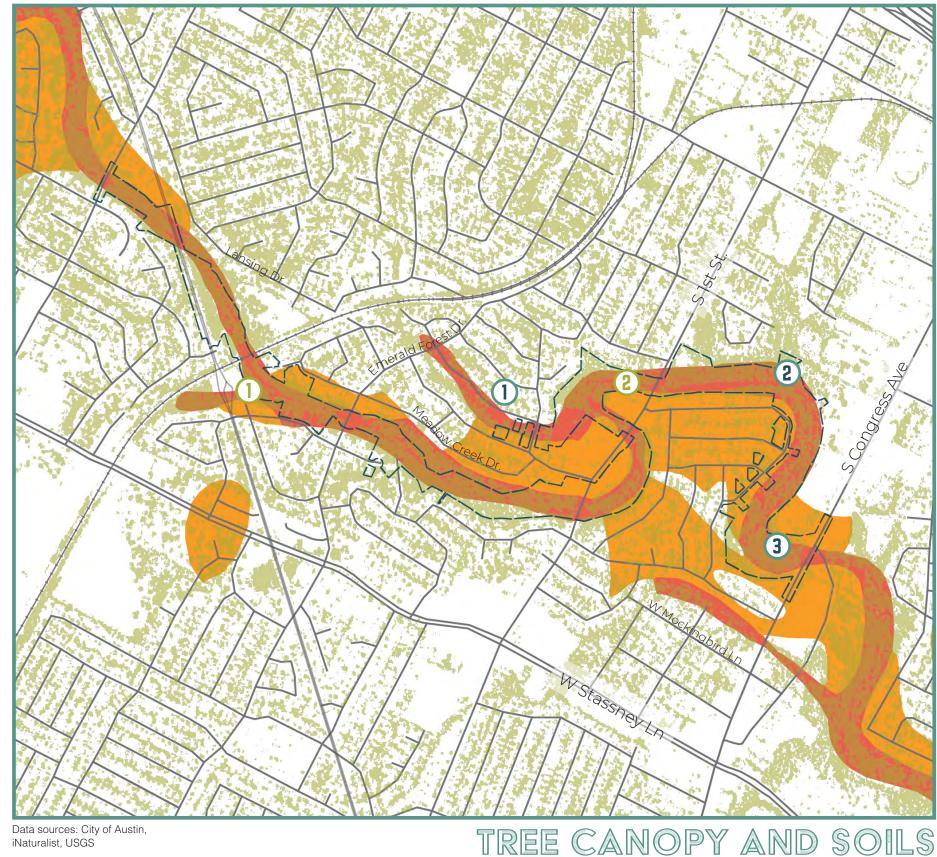
Challenge 2:

Balance invasive species removal with erosion control.

Opportunity 1: Educational wildflower meadow pocket parks at buyout areas.

Opportunity 2: Context-sensitive ecological restoration and habitat creation.

Opportunity 3: Invasive species management of Ligustrum and invasive grasses.





Legend



- Alluvial soils
- Tree Canopy
- -- Project Boundary

iNaturalist

iNaturalist is a popular citizen-science app that allows users to document and share plant and animal observations. These observations are geolocated and provide researchers with valuable information about the spatial distribution and ecology of plant and animal species.

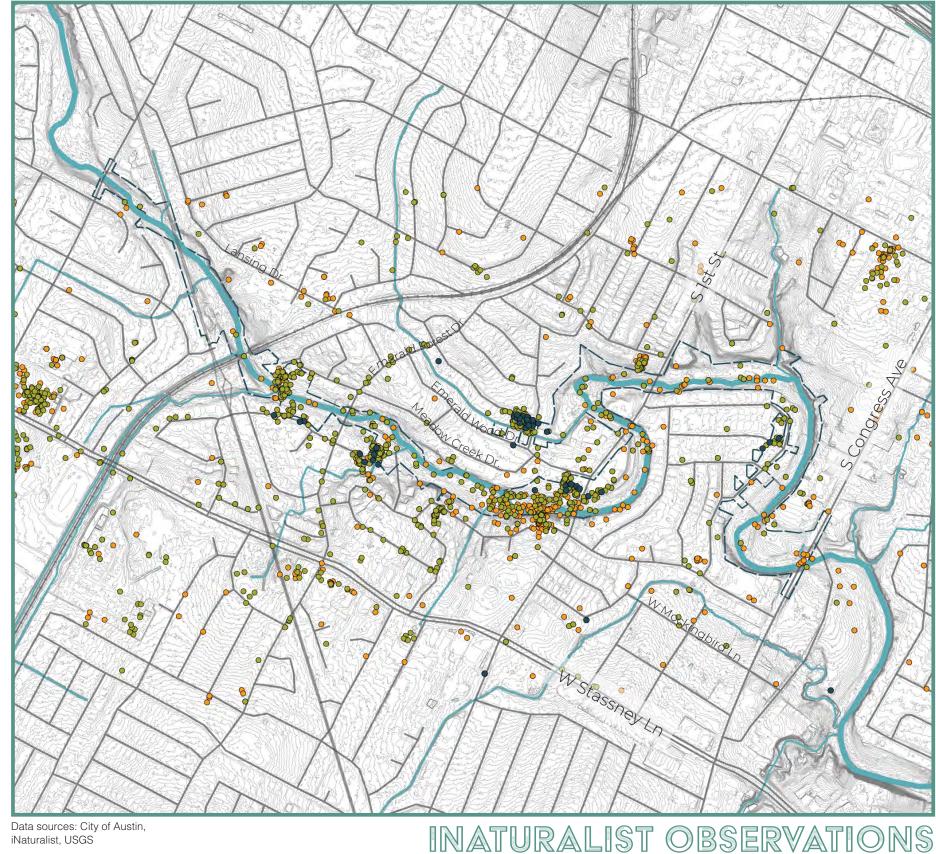
Residents and community members of Williamson Creek have used iNaturalist to document the creek's biodiversity through both individual initiative and organized community "bio-blitzes." The map on the right shows the results of these efforts.

Wildlife

The plant and habitat diversity in Williamson Creek allow for a broad range of fish, amphibian, bird, and mammal species to thrive. iNaturalist and previous field surveys conducted by The Nature Conservancy included spiny softshell turtle, green heron, great blue heron, cedar waxwings, and chimney swift sightings. In September 2018, two wildlife cameras were installed in the Central Williamson Creek Greenway with the Austin Wildlife Watch project and Austin park rangers. These cameras documented deer, raccoons, opossums, and coyotes.

Legend

- iNaturalist Wildflower Observation
- \bigcirc iNaturalist Plant Observation
- \bigcirc iNaturalist Wildlife Observation
- Creeks
- -- Project Boundary



iNaturalist, USGS



Vegetative Inventory

This map was compiled by a series of field surveys completed by The Nature Conservancy intended to document existing vegetation. This inventory will be used to develop a site plan that protects healthy, native vegetation and removes and manages invasive species. In future plan development, patches of native plants and fringe wetlands along the creek may be designated as Vegetation and Soil Protection Zones (VSPZs) as part of the SITES Certification process.



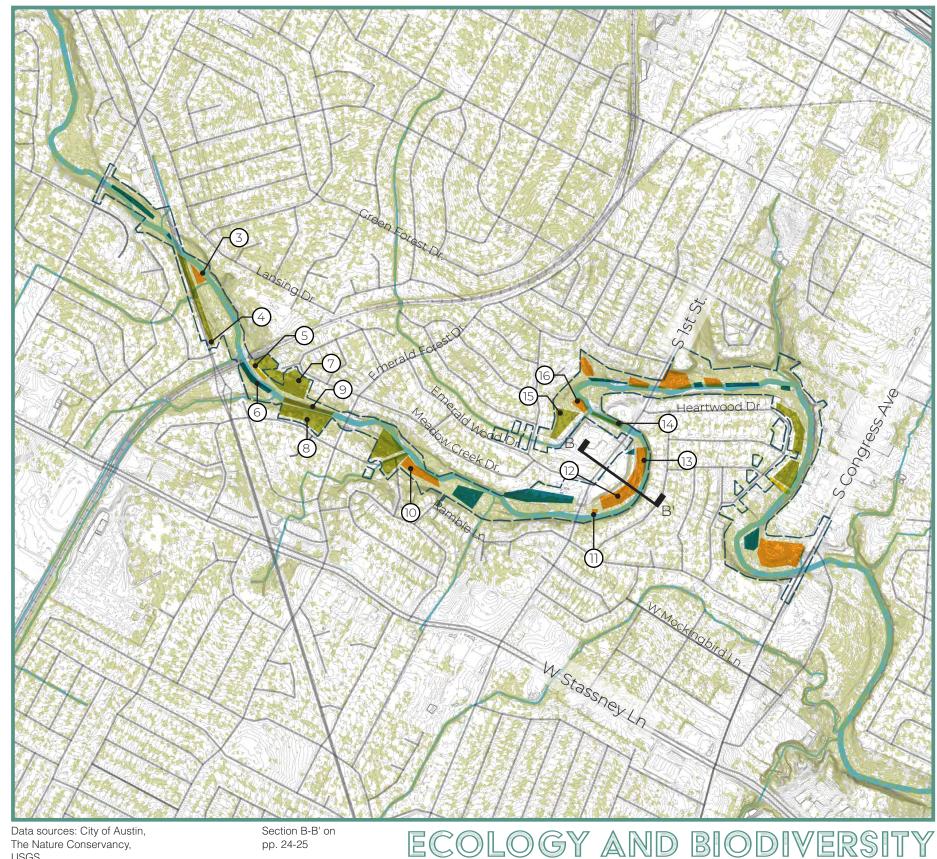
Native wetland fringe along Williamson Creek.

Legend Invasive Mowed Mixed invasive/native Native

- Tree Canopy
- Creeks
- -- Project Boundary

	Patch	Description
--	-------	-------------

Patch	Description
1	Ash and Hackberry predominate/canopy. Pecans, American Elm, Boxelder dispersed. Some Lilu, Nandina
2	Dense giant ragweed, under power lines
3	Ligustrum, canopy, evidence of some management activities
4	Johnsongrass/Forb, Juvenile Woody (hackberry, cedar elm, pecan) under powerlines
5	Bamboo thicket, some Oaks
6	Dense red oaks along bank
7	Buyout area mowed, large cedar elms, a few pecans, a few live oaks
8	Buyout area mowed, some large DBH trees
9	Ligustrum along bank, some cedar elms
10	Ligustrum, canopy and understory. Towards east, more oaks and cedar elms mixed into canopy
11	Bamboo cluster
12	Grow zone east of trail; ligustrum understory, few cypress and Viburnum near bank. Few large pecans
13	Numerous young cedar elms
14	Yard for apartments, large native trees as partial canopy along bank
15	Detention Pond adjacent Richmond Trib, some forbs/wildflowers
16	Mostly Ligustrum NW of Richmond trib, heritage pecan tree, a few hackberries
	Unnumbered parcels to be classified



The Nature Conservancy, USGS

pp. 24-25



Common Native Herbaceous Plants

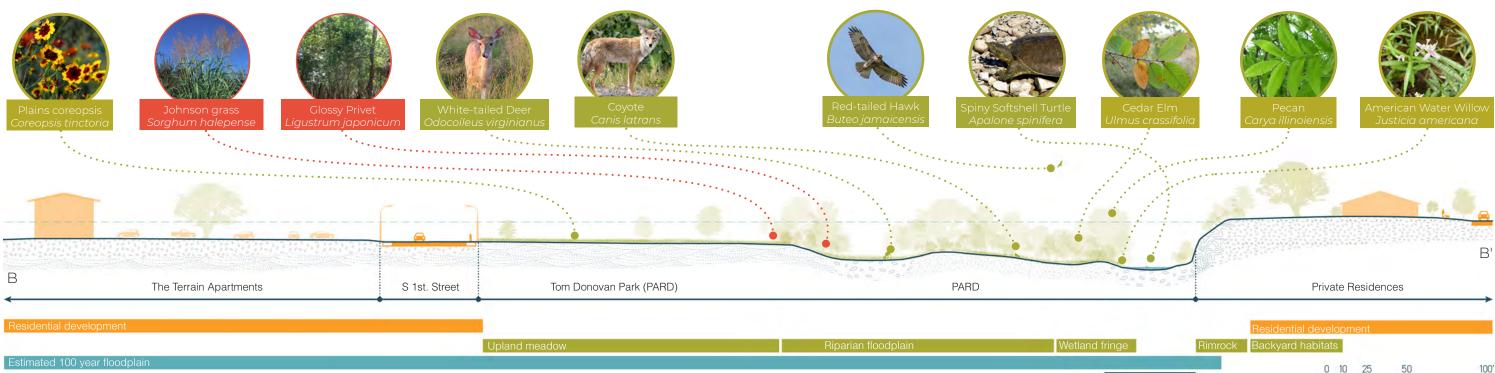
- American Water Willow (*Justica americana*)
- Western Ragweed (Ambrosia psilostachya)*
- Flame Acanthus (*Anisacanthus quadrifidus var. wrightii*)
- Illinois Bundleflower (*Desmanthus illinoensis*)
- Inland Seaoats (Chasmanthium latifolium)
- Plains Coreopsis (Coreopsis tinctoria)
- Pigeonberry (*Rivina humilis*)
- Purple Threeawn (Aristida purpurea)
- Sideoats Grama (Bouteloua curtipendula var. curtipendula)
- Silver Bluestem (*Bothriochloa laguroides ssp. torreyana*)

Common Native Tree Canopy

- · American Elm (Ulmus americana)
- Ashe Juniper (*Juniperus ashei*)
- Black Willow (Salix nigra)
- Box Elder (Acer negundo)
- Cedar Elm (*Ulmus crassifolia*)
- Hackberry (*Celtis laevigata*)
- Live Oak (*Quercus fusiformis*)
- Pecan (Carya illinoiensis)
- Texas Red Oak (Quercus texana)

Common Invasive Herbaceous Plants

- · Bamboo (*Phyllostachys aurea*)
- Barnyardgrass (Echinochloa crusgalli)
- · Bermuda Grass (*Cynodon dactylon*)
- Garden Cornflower (*Centaurea cyanus*)
- · Giant Reed (Arundo donax)
- · Johnsongrass (*Sorghum halepense*)
- Perennial Ryegrass (Lolium perenne)
- Prickly Lettuce (*Lactuca serriola*)
- Rescuegrass (*Bromus catharticus*)
- · Silky Bluestem (*Dichanthium sericeum*)
- Tropical Lantana (Lantana camara)



Section B-B': View north at Tom Donovan Park

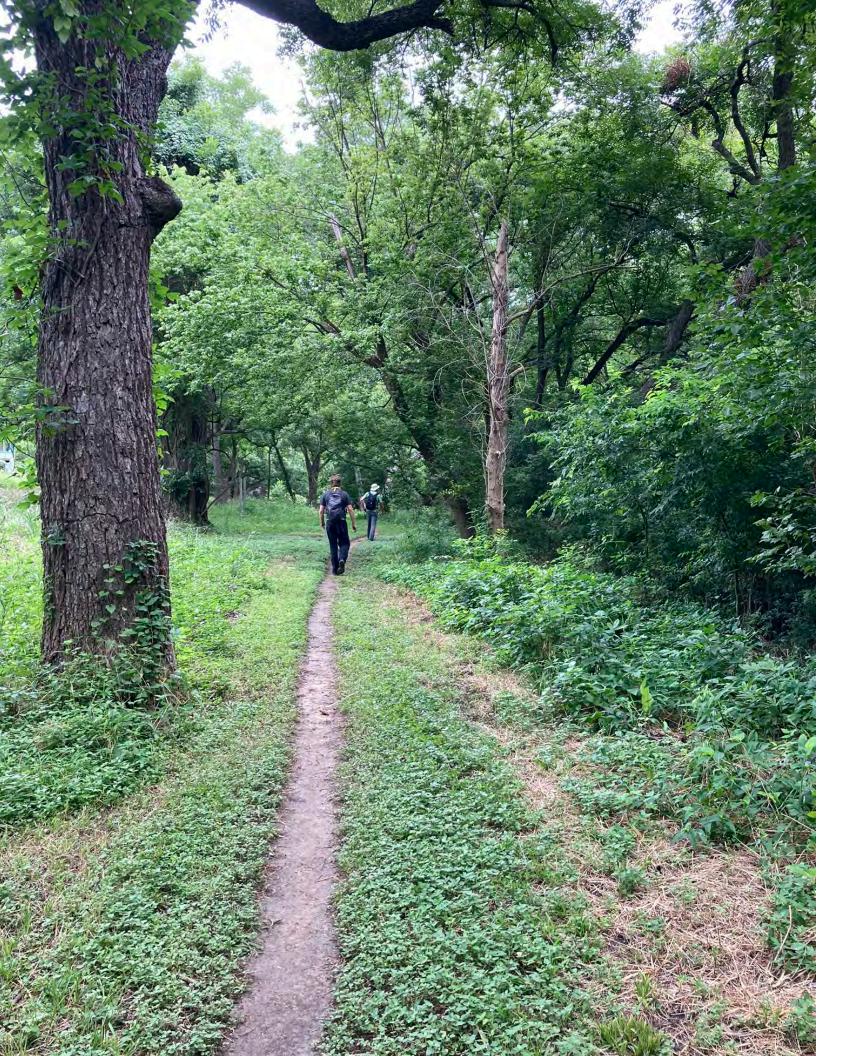
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Common Invasive Tree Canopy

- · Chinaberry (*Melia azedarach*)
- Chinese Privet (*Ligustrum senense*
- Chinese Tallow (*Sapium sebiferum*)
- Glossy Privet (*Ligustrum japonicum*)
- Nandina/heavenly bamboo (Nandina domestica)
- Tree of Heaven (Ailanthus altissima)

Note - Invasive species are defined by the National Invasive Species Council as "nonnative (or alien) to the ecosystem under consideration and whose introduction causes or is likely to cause economic or environmental harm or harm to human health." However, even native species may be aggressive and outcompete other species, causing ecological harm.

Native plant species with an * next to their names indicates that these plants are aggressive and may harm biodiversity in the Williamson Creek ecosystem.



CENTRAL WILLIAMSON CREEK IS EASY TO GET TO BY BUS, BIKE, AND ON FOOT.

GREENWAY ACCESS

Neighborhood Access

The neighborhoods along Central Williamson Creek have a robust sidewalk network, creating good pedestrian connectivity for the adjoining neighborhoods. Emerald Forest Drive provides a dedicated bike lane for traveling in the north-south direction, and StassneyLane provides a bike lane for travelling in the east-west direction. In the future, the CAMPO 2035 plan hopes to augment S. Congress Avenue S. 1st Street, and MenchacaRoad to become safe, designated "bike corridors." In the meantime, the surrounding neighborhood roads of mostly low-traffic residential homes offer a safe alternative to high-traffic thoroughfares like S. Congress Avenue and Menchaca Road. The City of Austin Urban Trail Network is actively working on a plan to develop the abandoned Bergstrom Spur Right-of-Way as an urban trail. The 2014 City of Austin Urban Trails Plan also proposes the creation of additional car-free regional connections via the Williamson Creek Greenway and the Union Pacific right-ofway. Central Williamson Creek is served by the 1, 3, 10, 311, and 801 bus.

Creek Access

Access to the creek itself can be a challenge. Many informal trails and entrances have been created by community members. However, they occur sporadically through the greenway and do not provide a connected path along the entirety of the Central Williamson Creek Greenway. Access to these informal trails are frequently found at the mowed, grassy buyout parcels and under the bridges where S. 1st Street, S. Congress Avenue, and Menchaca Road cross Williamson Creek.



Creek entrance from the north side of S. Congress Avenue



South 1st Street is a common access point to Williamson Creek



This major entryway along S.1st Street is adjacent to a large, grassy park and the Emerald Wood Community Garden.

Legend

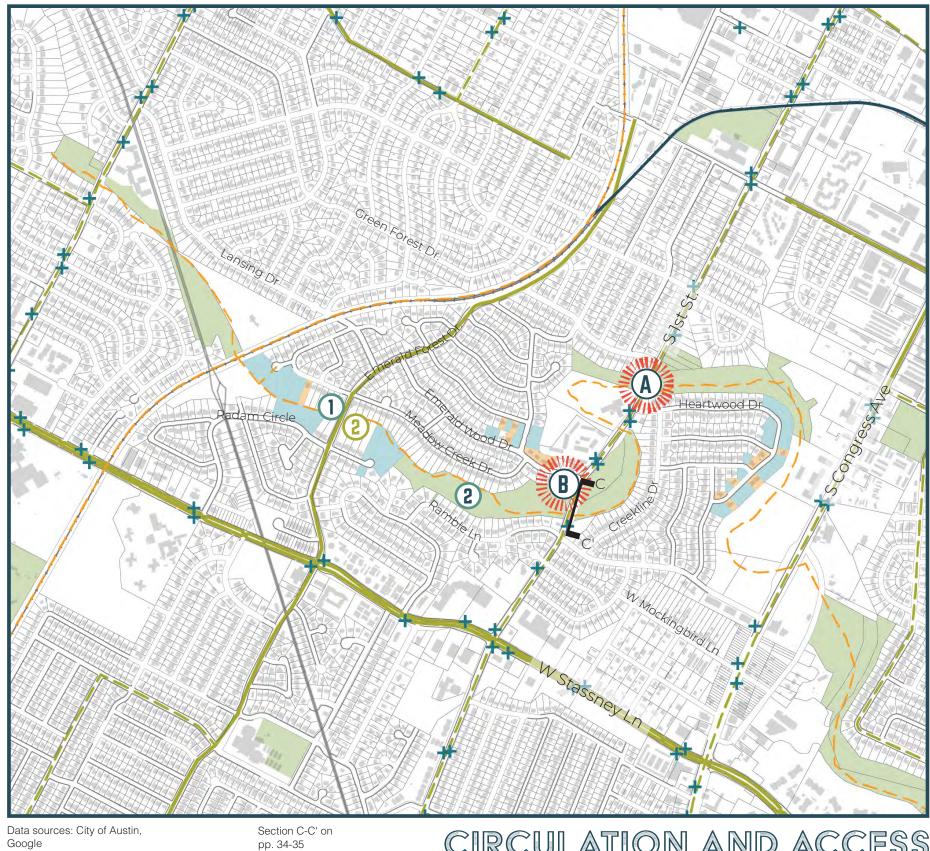
- Community-Identified Access Points
- + CMTA Bus Stops
- Bicycle Lanes
- - CAMPO 2035 Bicycle Corridors
- – COA Urban Trails (2014 Plan)
- ---- Bergstrom Spur (In Progress)
- Sidewalks
- Floodplain Buyout Lots (Owned by Watershed Protection Dept.)
- Floodplain Buyout Lots (Eligible)
- COA Parks (Owned by Parks and Recreation Dept.)

Challenge 1: Steep slopes at potential access points at major road crossings.

Challenge 2: Discontinuous publicly owned property along the creek.

Opportunity 1: Easements along private property to allow access.

Opportunity 2: Continuous, accessible trail along entirety of Central Williamson Creek.



Central Williamson Greenway Creek Vision Plan 106

Slope

Access to Central Williamson Creek is hindered by the area's rugged topography. In some areas, the creek's erosive force has eaten into its banks, exposing steep rock faces dozens of feet tall. Erosion's effects are less dramatic in other places, but still make it difficult to experience the creek. This map shows the locations of these steep areas, illustrating their relationship to the adjacent street grid and the limitations they place on access to Williamson Creek.



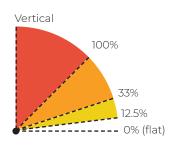
Steep conditions are often due to limestone outcroppings along the creek.

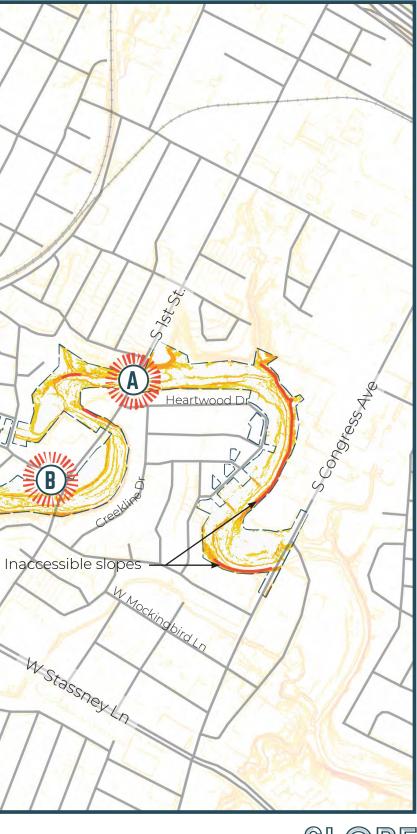
CIRCLE WoodD B

Data sources: City of Austin, Google

Legend

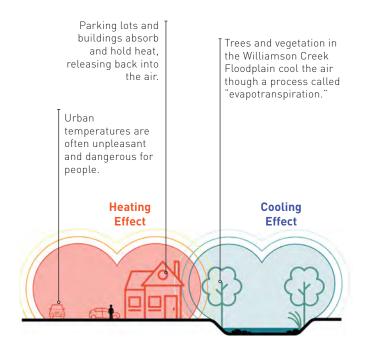
- Community-Identified Access Points
- Moderate slopes (12.5 33.3%)
- Steep slopes (33.3% 100%)
- Extremely steep slopes (>100%)





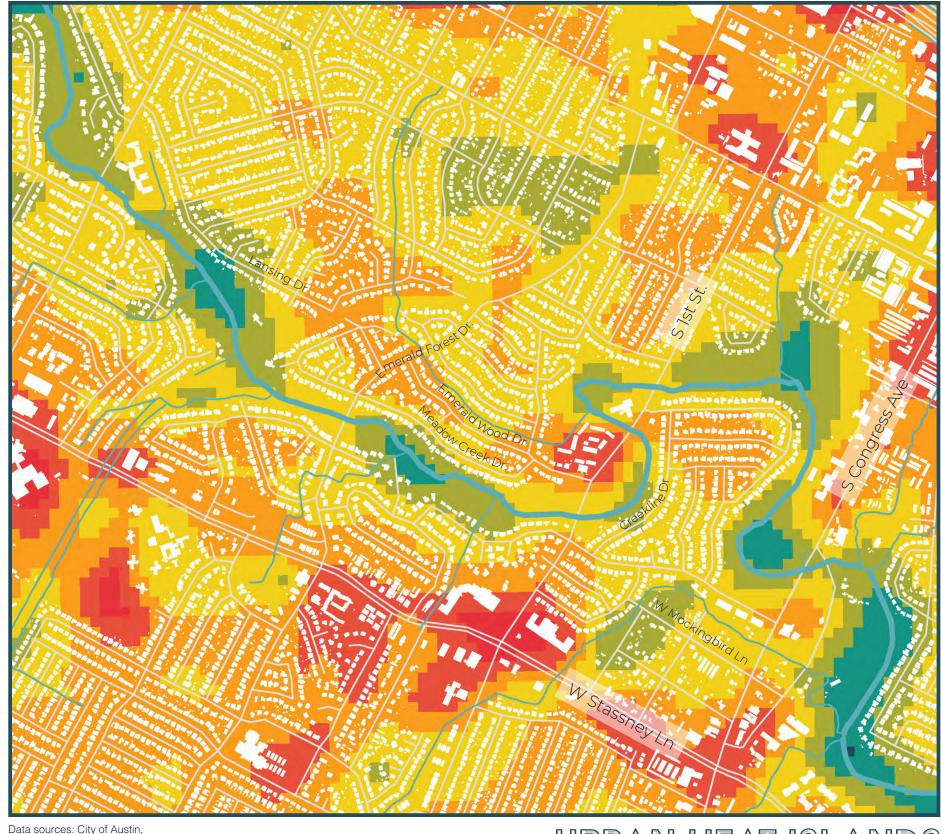
Urban Heat

In the summer and early fall, walking and biking on Austin's hot streets is uncomfortable and puts at-risk groups including the very young, the elderly, and those with pre-existing conditions at risk for heat-related illness. The trees and vegetation along Central Williamson Creek creates a cool ribbon through a hot city. A future hike and bike trail along the creek would provide a safer and more comfortable transportation or exercise route than paved neighborhood streets and sidewalks.



Legend





Data sources: City of Aust LANDSAT

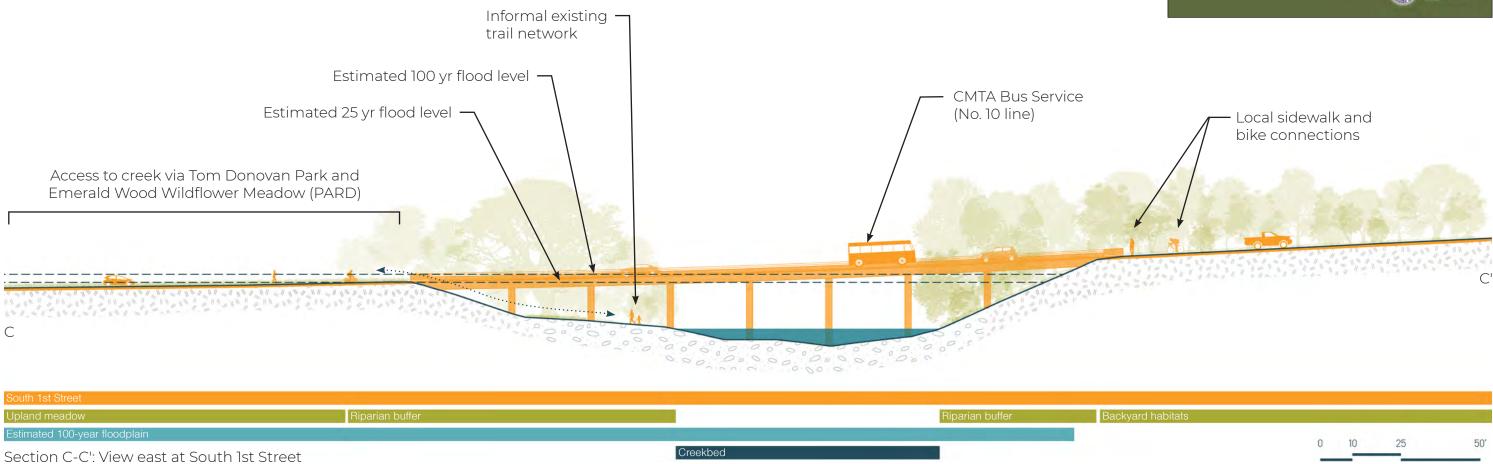
URBAN HEAT ISLANDS

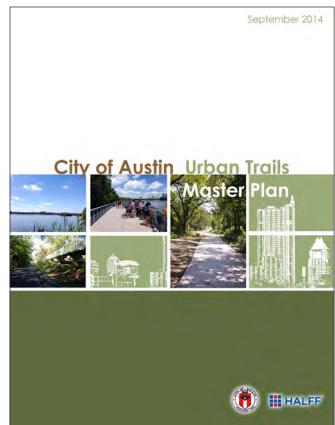
Trailheads

While there are currently no formal trailheads providing access to the Central Williamson Creek Greenway, many community members noted accessing the creek at several bridges that cross the creek. The section below illustrates where the creek flows underneath S. 1st Street bridge. This area presents an opportunity to provide more formalized access to the creek in the future.

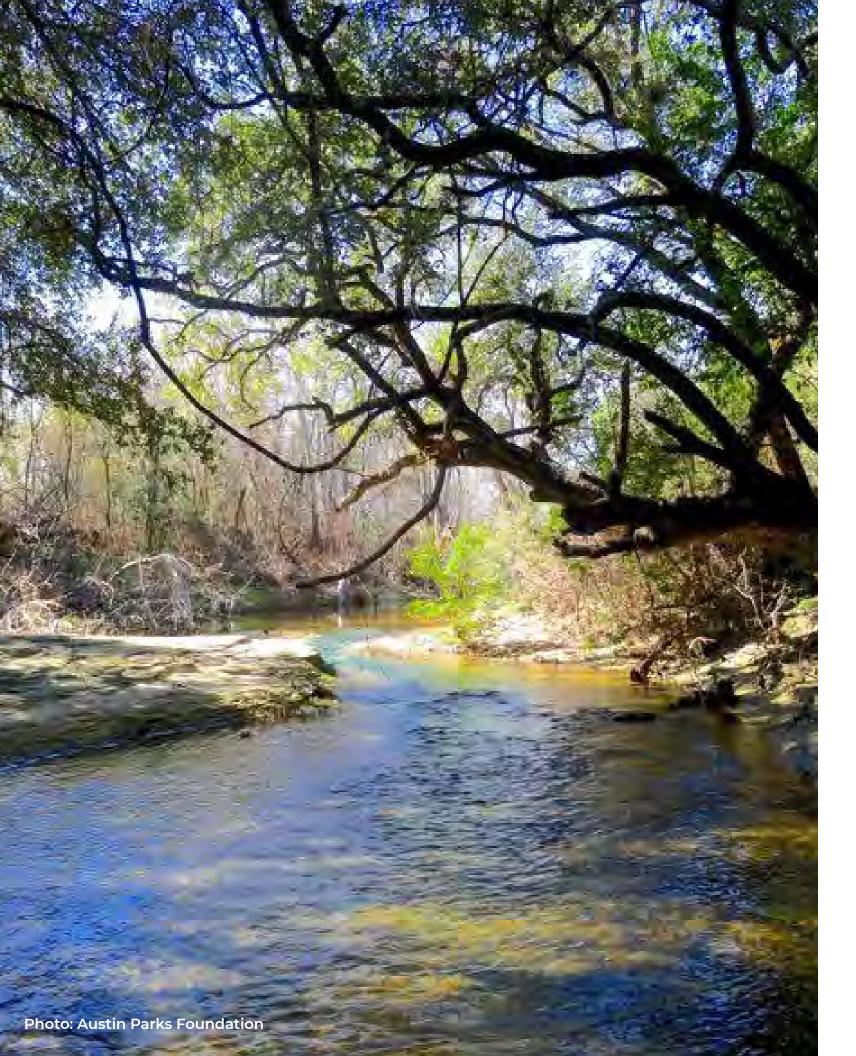
Previous Planning Efforts

Austin Urban Trails Plan (2014): This plan identifies an opportunity for a trail along the Williamson Creek for three miles from Onion Creek to South Menchaca Road. It rates this trail as a Tier Il priority, due to its proximity to major employers, public and private schools, access to transit, access to public places, and potential for completing gaps in existing on-street sidewalks or bike facilities.





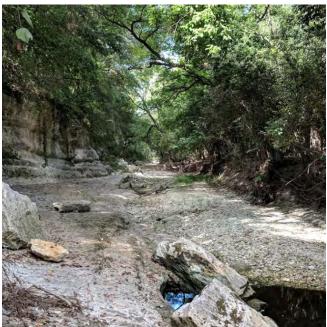
Central Williamson Creek Greenway Vision Plan 113



CENTRAL WILLIAMSON CREEK IS TRANSFORMED WHEN IT RAINS. Hydrology

Williamson Creek Watershed

Beyond the Greenway Vision Plan area, Williamson Creek stretches almost 19 miles across South Austin from its headwaters just west of the intersection of Highway 71 and Covered Bridge Drive to where it empties into Onion Creek just east of 1-35 at McKinney Falls State Park. This water then flows from Onion Creek into the Colorado River, where it travels across east Texas and empties into the Matagorda Bay and the Gulf of Mexico. The Williamson Creek Watershed, which contains Williamson Creek and its tributaries, covers 30.25 square miles. Thirty percent of the Watershed's land falls within the Edwards Aquifer Recharge Zone, land that is regulated by development code to ensure the continued function and quality of the Edwards Aquifer, a critical underground water source for central Texas The Central Williamson Creek area drains 72.5% of the Williamson Creek Watershed (about 22 square miles). About 34% of the Williamson Creek Watershed is covered by impervious surfaces. Land use within the watershed is comprised by 41% single family homes, 9% apartments and condos, and 9% greenbelts. Tree canopy covers 38% of the watershed, and this high number is likely due to high residential land use and greenbelts within the watershed. A high percentage of trees surrounding the greenbelt may help alleviate some flooding.



Between rainfalls, Williamson Creek almost completely dries out, leaving occasional standing pools of water.



Many seeps and springs arise from the rocky outcropping that runs along both banks of Williamson Creek.

Central Williamson Creek Greenway Vision Plan

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Flooding

Austin averages about 34 inches of rainfall per year, with May, June, and October being the wettest months of the year. Rainfall tends to come in intense. short storm events that cause flash floods. Severe rain events can cause dramatic changes in the volume of water flowing through Central Williamson Creek, transforming the space from what is mostly a dry, rocky creekbed into a rapid stream of water. While flooding is an important part of the creek system and provides water flows for plant and animal species, these extreme rainfall patterns pose a threat to those living along Williamson Creek. (Continued on next page.)



- Williamson Creek
- Tributary
- Williamson Creek Watershed

Legend

- Buyout Lots
- Estimated 25-year floodplain
- Estimated 100-year floodplain
- Creeks
- Rimrock
- + Seep/spring

Challenge 1: Help mitigate flooding of homes.

(2) Challenge 2: Balance trail and amenity placement with destructive flood events.

> **Opportunity 1:** Green infrastructure and other floodwater storage opportunities.

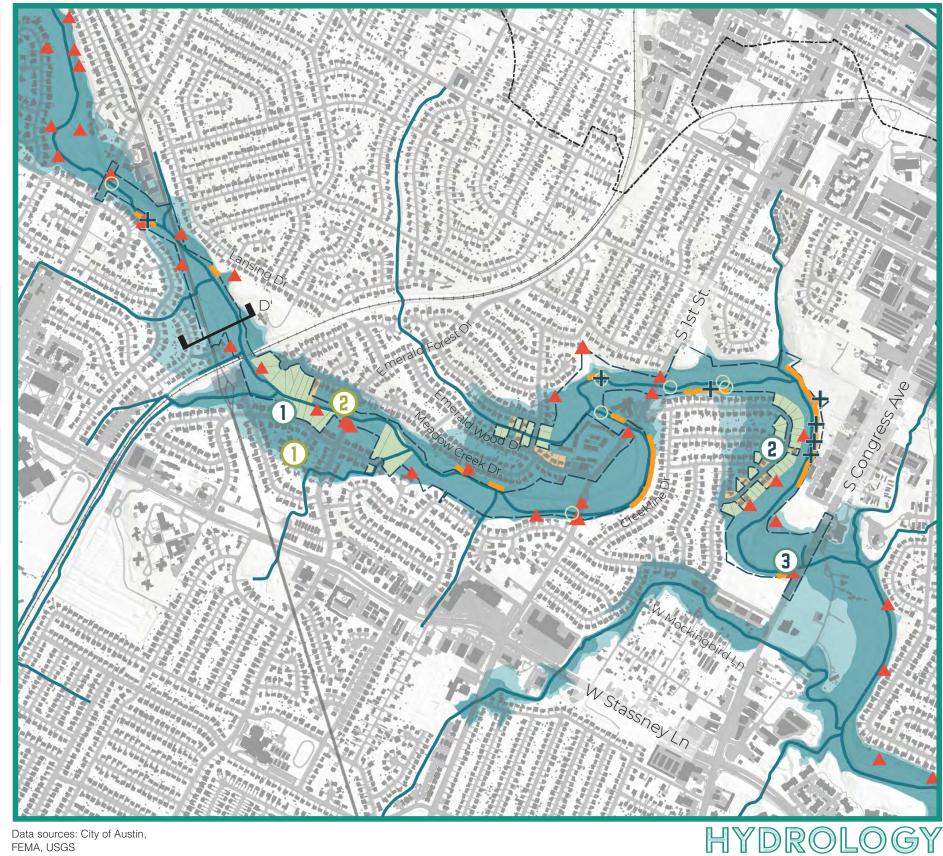
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Opportunity 2: Education around urban flooding and climate change.

Opportunity 3: Improve stormwater outfalls to better conserve creek water quality.

Wetland

- Stormwater Outfall
- ___ Project Boundary
- ----- Watershed Boundary
- Buildings
- Paved Surfaces





This flood risk is exacerbated by climate change and land development in the Williamson Creek watershed, making Central Williamson Creek a highly floodprone area. Major floods in 1998, 2001, 2013, and 2015 prompted a buyout program that has seen 51 properties purchased by the City, demolished, and converted into open space owned by the Watershed Protection Department. This Williamson Creek Flood Risk Reduction program helps to mitigate the risk of damage to property by removing houses that have experienced repeated flooding out of the floodplain and maintaining these areas as floodable open spaces.

Water Quality

The 2017 Watershed Protection Department Integrity Index report found that the Watershed has a very good overall condition for aquatic life, water quality, contact and non-contact recreation, and habitat and sediment quality. However, there are many stormwater outfalls that empty into Williamson Creek, bringing stormwater runoff with pollutants from roads, parking lots, and other impervious surfaces into Williamson Creek. These common pollutants may include pesticides, fertilizers, construction debris, used car oil, and trash.

Critical Environmental Features

The City of Austin defines Critical Environmental Features as natural features that protect and enhance water quality. As of June 2020, The Williamson Creek Watershed has twenty-nine known springs and seeps, fifteen rimrock/bluff locations, and 55 wetland sites. These three images of rimrock, a seep, and a wetland were all found along Central Williamson Creek.

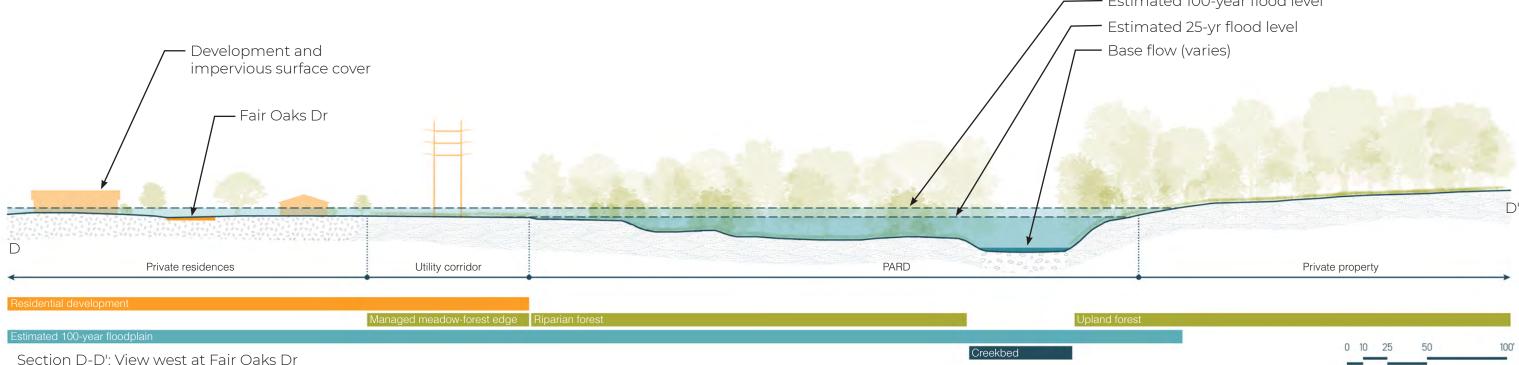
Rimrock

Seep



Rimrock and bluffs are outcroppings of rock that exceed a 60% slope, have a 5 foot rise, and a 40 foot length.

overland.





Springs and seeps are locations where around water reaches the surface and begins to flow

Wetland



Wetlands along Williamson Creek are identified by the type of vegetation found within them.

Estimated 100-year flood level



Central Williamson Creek Greenway Vision Plan 21

IMPLEMENTATION STREAM

The Vision Plan encompasses three tiers of project effort and feasibility. Some ideas can have different levels of effort, and therefore may appear in more than one tier. All ideas, once implemented, will have perpetual maintenance requirements following their completion. The "Tiers" are as follows:

Tier 1:

Community-and non-profit-led efforts that are relatively low-cost and easy to install without technical equipment, machinery, or skills.

Tier 2:

Projects led by a city department, most likely the Parks and Recreation Department or Watershed Protection Department, with community volunteer and engagement opportunities.

Tier 3:

Large-scale city-led projects that may be implemented in the long-term by city staff or contractors.

Maintenance

All projects, no matter the size, will require maintenance for ensured community and environmental health and safety. Similar to implementation, these have levels of engagement and operations. As City-owned public land, community-led efforts must be approved by the property owner.

Tier 1 Projects

Community -led collaborations with City of Austin landowners Watershed Protection, and the Parks and Recreation Department. They can involve work and support with non-profits such as Austin Parks Foundation and Keep Austin Beautiful. All projects must have prior approval by City of Austin property owners.

Toolkit Items Include:

- Nature Trails
- Creek and Woodland Restoration
- Fitness Programming
- Food Forest
- Community Gardens
- Mountain Bike Trails
- Invasive Species Removal
- Labyrinth
- Music Grove
- Seating
- Pollinator Nesting Boxes

Maintenance Considerations:

For Tier 1 community and city-partnered projects, a maintenance agreement must be developed and approved by the City of Austin.

Tier 2 Projects

These are City of Austin landowner projects of \$50,000 dollars or less. They are part of the missions and plans of WPD or PARD, but require advocacy from the community. The community may also be involved for portions of these projects such as planting days.

Toolkit Items Include:

- Nature Play
- Green Infrastructure
- Wildflower Meadows
- Community Message Board
- Bonded Wood Mulch Trail
- BYO Hammock Grove

Maintenance Considerations:

Tier 2 projects should be maintained per City code and operations; however, the City may partner with non-profits and community groups to perform maintenance.

Tier 3 Projects

Projects that require long-term study and funding by City of Austin landowners that will total more than \$50,000 dollars and require major construction. Funds and grants may be raised on behalf of the community to implement these projects.. They will have required community engagement on their further development and route to implementation.

Toolkit Items Include:

- Land Acquisition and Easements
- On-street Bicycle Lanes
- Sidewalk-Shared Use Path
- Green Infrastructure (Large Scale)

Maintenance Considerations:

Tier 2 projects should be maintained per City code and operations; however, the City may partner with non-profits and community groups to perform maintenance.

AREA 1

TIER 1 - 15,000-30,000* TIER 2 - 206,000 TIER 3 - 320,000

Meadow Creek Trailhead

AREA 2

Orland Trailhead

TIER 1 - 15,000-30,000*

TIER 2 - 175,000

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Emerald Wood Community Garden

IMPLEMENTATION STREAM **OPINION OF PROBABLE COST BY AREA**



TIER 1 - 15,000-42,000* TIER 2 - 150,000 TIER 3 - 740,000

Heartwood Community Garder

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ONGOING CITY OF AUSTIN PROJECTS

There are several projects in an array of planning and implementation stages adjacent to the Central Williamson Creek Greenway.

Floodplain Buyout Improvements

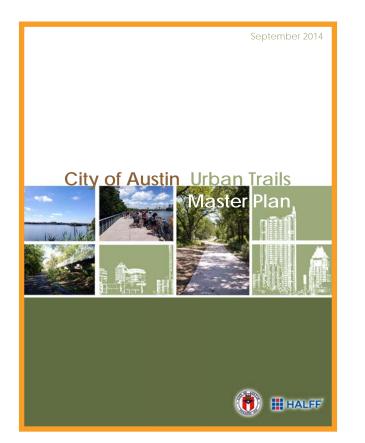
The Watershed Protection Department has several projects underway to improve floodplain buyout lots. Such improvements include using split-rail fences to denote property boundaries, and removal of driveway concrete and debris. Buyouts are likely to continue, so additional land may be acquired and require community input on their mantenance and public use.

2014 Urban Trails Plan

The 2014 Urban Trails Plan identified Williamson Creek as a location for a Tier Il trail. The proposed trail is a 12-foot wide concrete trail. As part of this update, the prioritization of trails may change, based on a variety of factors including equity, constructability, and community input

During the community engagement process for Central Williamson Creek Greenway, community members expressed a strong desire for trails within the greenway to be natural trails. This was stated in community meetings and shown in the Creek Ideas Card voting. As such, the Central Williamson Creek Greenway Vision Plan shows primarily nature trails and mountain bike trails with small accessible loops at trailheads. For street biking and connectivity, the Vision Plan proposes a 'High Water Route'-- a series of bike lanes and shareduse paths out of the floodplain that would connect to existing and planned bicycle and sidewalk networks. This would increase connectivity to an Urban Urban Trail if it moves forward.

The next phase for a trail would be for the City of Austin to commission a Preliminary Engineering Report from a team of consultant licensed engineers and landscape architects. This phase also requires community engagement. The Vision Plan recommends that the Central Williamson Creek Greenway community leaders and community working group are included as stakeholders in this process.



Middle Williamson Creek Flood **Risk Reduction - Engineering Feasibility Study Phase 2**

Middle Williamson Creek Flood Risk Reduction -Engineering Feasibility Study Phase 2 The study reviews methods to reduce flood risk over an area of Williamson Creek between West Gate Blvd and Congress Avenue. Some options requiring construction include: flood walls, which would consist of wall segments protecting specific areas from flooding; channel modifications. which would require excavation at some locations along the creek in order to increase the flow capacity; construction of detention ponds: or a diversion, which would allow water spilling out of the creek to be diverted through underground pipes in order to bypass areas at risk of flooding. The above options are being considered individually or as a combination. Another option considered is voluntary buyouts of homes at risk of flooding. Each of the options is being evaluated for flood reduction effectiveness, cost, as well as environmental impacts. Social impacts will also be evaluated once community engagement is conducted, after the draft feasibility report is available. This community engagement is expected to take place in the second half of 2021. For more information. please visit: https://www. austintexas.gov/department/williamsoncreek-flood-risk-reduction

Wastewater Interceptor

Austin Water is working on a project to install a new gravity wastewater tunnel along and near Williamson Creek, from S 1st Street to S Pleasant Valley Road. The existing wastewater pipeline in Williamson Creek is reaching the end of its useful life and is projected to be nearing its capacity as growth continues in the area. Most of the old pipeline will be removed or properly abandoned once the new tunnel is in place. All proposed pipelines will be underground, although visible construction activity will occur to install the new tunnel and its connections. The project is currently in design, and is expected to begin construction in 2023. Additional community engagement is planned to begin in late 2021. For more information, please visit the City of Austin project website: https://www. austintexas.gov/department/williamsoncreek-wastewater-interceptor

SUSTAINABLE SITES - A FRAMEWORK AND CERTIFICATION FOR SUSTAINABLE AND RESILIENT PROJECTS

The United States Green Building Council has a rating system and certification program called Sustainable SITES Iniative (SITES). SITES is a comprehensive land design and development rating system that is being used by both private and public sectors all around the world.

The purpose of SITES is to certify that a built landscape, such as Central Williamson Creek Greenway, meets measurable goals for sustainability and the environment. The certification is challenging to obtain, and has gained a reputation for innovation and forward-thinking sustainable design.

City of Austin Parks and Recreation Deparment advocates for new projects to pursue SITES. While the Central Williamson Creek Greenway Vision Plan is not yet constructed it includes the necessary high levels of sustainable components to realize a SITES certification. Important components to ensuring these criteria are met are included in the Materials Appendix and Planting Apendix.

To learn more about SITES, please review their free 'Client Deck' which describes the benefits of sustainable landscapes and how the rating system works : <u>https://kapost-</u> files-prod.s3.amazonaws.com/uploads/asset/ file/58efafd9acb75c0094000418/sites-clientdeck.pptx

IMPLEMENTATION BY IDEA

IDEA	Pollinator Nesting Boxes	Invasive Species Management		IDEA	Signage
TIER 1	Many plans for these boxes can be found online. Nest boxes consist of a house with a roof and an infill of material such as bamboo and twigs. The house, roof and post must be wood, sourced from a non-threatened tree species. For more information on materials, refer to the materials appendix. The infill may be constructed from materials found on the greenway- in particular from material salvaged from the invasive species	Invasive species removal at the Tier 1 level includes community volunteers leading a Watershed Protection or PARD approved clean-up day, that can also be supported by local non-profits such as Keep Austin Beautiful or the Austin Parks Foundation. Removal will be done by hand only and can include pulling herbaceous noxious weeds such as Johnson Grass, Bermuda Grass, using weed wrenches to remove mid-sized shrubs such as Nandina and tree girdling to remove		TIER 1	Informal trail markers such as cairns may be implemented to mark distances and direction along trail.
	removal efforts. http://www.xerces.org/sites/default/ files/2018-05/12-015_02_XercesSoc_Nests- for-Native-Bees-fact-sheet_web.pdf	Ligustrum spp. No herbicides or motorized mechanical equipment may be used as part of this effort.		:R 2	Signage in this tier includes weather warnings, community message boards, educational information, interpretive signs, and trail distance markers. These signs can be up to 6ft in height and
R 2		Projects at the Tier 2 level are led by the Watershed Protection Department (WPD) or the Parks and Recreation Department (PARD) but can include community		TIER	must follow the materials guidelines outline in Appendix X.
TIER		volunteers as well as non-proift organizations that contract with WPD or PARD such as The Other Ones Foundation and Texas Conservation Corps. Projects can also include machine removal of invasive trees.	က	This scale of signage will include monument signs and park rules. These signs require a third-party professional fabrication and are often included as a component of a larger project.	
TIER 3		Projects in this Tier will be a component of a large -scale project that is greater than \$50,000 in value. Projects will be responsible for removing any invasive material within their limit of construction.		TIER	
MAINTENANCE	In order to keep nest boxes safe for pollinators , the infill materials sticks, bamboo etc must be replaced once a year during the winter between late January to early February. Old infill may be scattered away from the nest box to decompose. Also, box keepers should watch for any infestations and spider webs to ensure bees are safe from predators.	Invasive Species removal sites require continued maintenance. Often the soil has a continued seed bank of invasive species that will emerge following the removal of established plants. Quarterly inspections and seedling removals are recommended to ensure that sites are not recolonized. Addionatlly, native seeds and plugs should be installed at removal areas.		MAINTENANCE	Signs should be made of durable material that will withstand exposure to elements such as cut metal and stone. Detailed educational signage with images should be placed in the shade to reduce fading over time. Maintenance should be performed on signs once a year to remove dirt and graffiti.



Labyrinth

irns may ces and	A labyrnith may be a community -led project with City approval on all aspects of the design. Labyrinths may be constructed of rock berms from native stone quarried within a 100-mile radius of the site. Configuration of a labyrinth should allow water to drain. Stone berms should not be greater than 18-inches in height. The paths formed by the rock berms would receive shredded wood mulch.
ther boards, etive These nd ines	
These sional d as a	While a labyrinth could be designed and constructed as part of a larger project, the Vision Plan recommends community input and engagement. The labyrinth was conceived of as a mindful way to bring community members together.
e sure to stone. th hade to hance hce a	Typical maintenance will include a yearly inspection of the Labryinth. Tier 1 Labyrinths will require weed removal and should also be inspected after a flood event. Any shifted material should be restored to its original condition. Wood mulch paths should be refreshed anually or after flooding.

IMPLEMENTATION BY IDEA, CONT.

IDEA	Creek + Woodland Restoration	Nature Trail	IDEA	Wildflower Planting
TIER 1	At the Tier 1 level, community members and non-profits may partner with City approval to plant native trees, perennials and grasses to improve the environment. A list of potential species, as well as additional resources, are provided in Appendix A Plant Species.	Nature Trails may be installed with City of Austin approval by community members or community members in partnership with non-profits such as Keep Austin Beautiful and Austin Parks Foundation. Nature Trails should consist of a 6-foot-wide pathway. The pathway material should be single grind hardwood mulch that does not contain invasive seeds.	TIER 1	Due to the technical nature of wildflower meadows on public lands- seeding, planting, establishment and maintenance, all wildflower meadows should be implemented by City of Austin property owner. Volunteer participation may be considered by the City of Austin property owner. Neighbors of the greenway are encouraged to establish
TIER 2	Tier 2 restorations may involve small- scale site grading, planting and temporary irrigation. These projects will be conducted in part by the City of Austin and may also involve non-profits and community volunteers for some aspects of the work.	Projects in the Tier 2 category could be a typical nature trail, but with City of Austin supported installation. Also, Tier 2 includes projects where technical review and skills are required to install nature trails, such as traversing steep slopes. In these cases, City of Austin property owners may work within their department or contract with local trail building non-profits such as the Texas Conservation Corps.	TIER 2	wildflower meadows at their properties which will contribute to the health of the greenway. Wildflower meadows can be established by City of Austin property owners. Establishing a meadow can be a multiyear process. Community members can advocate for meadows.
TIER 3	Tier 3 projects involve large-scale improvements to the environment and creek. The projects may include repairing eroded banks, hydrologic engineering and changes to the creek, soil analysis and improvement and ecological restoration of wetlands and riparian areas.		TIER 3	
MAINTENANCE	Quarterly monitoring, weeding, and invasive species removal are recommended for project sites at all scales. Supplemental water until plants are established are recommended where feasible.	Trails should be maintained per City of Austin standards. Community groups can assist in maintaining trails through cleanup days and replenishing the mulch. After storm events trails should be checked for debris and washout.	MAINTENANCE	Wildflower meadows must be maintained according to City of Austin requirements to ensure they are functioning correctly. With prior approval from the City of Austin property owner, volunteers may participate in invasive species removal in Wildflower Meadow areas.

	Music Grove
in า ร	Tier 1 music grove can involve informal seating areas distanced from private property. Natural elements may be used for seating material such as stumps and boulders between 18-24-inches in height.
ers	Tier 2 improvements could enhance music grove areas by providing an accessible route in permeable paving and accessible seating.
ty	Music groves should be maintained biannually to be kept clean and clear.

IMPLEMENTATION BY IDEA, CONT.

	LEMENTATION DT IDEA, CONT	•			
IDEA	Community Message Boards	Green Infrastructure	IDEA	Community Gardens	Nature Play
TIER 1		Recommended that community members who own property consider cisterns or rain gardens with native plants to treat and slow the water entering the greenway.	ER 1	Examples of Food Forest at Tier 1 include expanding existing community gardens wtih Fruit Trees and Food Forest areas. Food forests can also be established, similar to community gardens, by	For safety reasons all play elements must be Tier 2 or higher.
	Community Message Boards should be constructed of a non-threatened North American hardwood or suitable reclaimed lumber. Design can be	All green infrastructure projects on City of Austin property should have a review by a civil engineer to ensure they are sized correctly. Small-scale green infrastructure	Ē	working with City of Austin property owners.	
TIER 2	initiated by the community but must be reviewed and finalized by the City of Austin property owner.	such as raingardens, vegetated swales, rock berms and curb cuts are recommended to allow for run off absorption and treatment prior to entering Williamson Creek. Look for opportunities whenever a projects is mobilized, such as a driveway removal at a floodplain buyout or demolition of existing structure. Add excavation work into these plans and keep access to water for establishment of planting.	TIER 2	At the Tier 2 level, City of Austin property owners could work with non-profits and land managers to establish a series of Food Forests within the Greenway. Community engagement would be recommended to optimize longterm maintenance and care. Where possible, City of Austin may provide a water tap to water Food Forests and Community Gardens.	Tier 2 features include imaginative play elements that do not require safety fall surfacing. Elements may include tree step stones, vine tunnels, and child-sized raised garden beds. These require design, review and approval by City landowners.
TIER 3	If not already implemented, this should be included into trailhead projects that fall into Tier 3.	The greenway has an opportunity for large scale green infrastructure projects. These projects include diverting stormwater outlets into biofiltration or wetland areas along the creek, and creating larger basins at manholes coinciding with flood plain buyouts. These interventions will require designs by licensed civil engineers and landscape architects and should also function as community and environmental amenities with opportunities for recreation and incorporation of native	TIER 3	Food forests are a recommended part of large-scale improvements. Maintenance groups must be established for successful implementation.	Tier 3 Nature Play elements include a combination of active and imaginative play elements. Any play element requiring a safety surface will fall in this category. Such elements include balance beams, swings, and climbable elements. Community engagement will be required for these designs.
MAINTENANCE	Recommended that neighborhood organization or community group partner in responsibility with City of Ausitn property owners. Excellent way to share about upcoming community events and organizations.	plants. Green infrastructure elements must be maintained according to City policy listed under the Environmental Criteria Manual.	MAINTENANCE	Maintenance can vary depending on size of Food Forest. At a minimum, plan for watering plants through establishment, quarterly weeding and developing a harvest schedule.	Maintenance varies depending on the play type. All play elements should be maintained by City of Austin.

IMPLEMENTATION BY IDEA, CONT.

IDEA	Bonded Mulch Trail	L Easement or Land Acquisition		Fitness Programming
TIER 1		At the Tier I scale community members could advocate with the City and land owners to establish easements for parkland or acquire additional buyout properties along the greenway. In particular, community groups partnering with private land owners could establish a series of easements that would allow for more continuous trail and park areas through the greenway.	TER 1	park. Paid activities require permission more
TIER 2			TIER 3	
TIER 3	Bonded wood mulch trails will be fully accessible routes that require grading and design by professional engineer and landscape architect to implement. Installation must be performed by a third-party contractor.	Tier 3 includes land aquisition by the City, such as additional floodplain buyouts. It also includes dedication of park and trail easements for developments adjacent to the greenway.	TIFR 3	cataty surfacing Equipment should be
MAINTENANCE	Bonded mulch trails should be cleaned yearly by spraying a clear coat material to keep the surface well -bound and prevent wear from eroding the surface layer.		MAINTENANCE	

	On-Street Bike Lanes
g III s.	
	On-street bike lanes require design and review by Austin Transportation Department (ATD). Community members can advocate for bike lanes by contacting the ATD.
	On street bike lanes should be maintained by City of Austin per City standards.

PEOPLE EXPERIENCING Homelessness

Austin's parks and open spaces are places where all community members gather to enjoy trails, build social capital, and access Austin's urban nature. Due to the diversity of groups and interests of Austin residents, it is not surprising that conflict may arise between park users. Conflicts between neighborhoods, park users, and unsheltered individuals living in Austin's parks has become an ongoing issue in Austin, and Williamson Creek is no exception. In 2019, Austin City Council enacted a set of ordinances that permitted people experiencing homelessness to sit, sleep, lie, and camp in most public spaces. The homelessness crisis was further exacerbated by 2020's COVID-19 crisis, when the number of unsheltered individuals rose 45% from 2019 to 2020¹.

Across the city, residents and park users have voiced concerns over the symptomatic impacts of Austin's housing and homelessness crisis, such as the presence of unsheltered individuals in parks, and their associated tents, belongings, and refuse. Through the COVID-19 crisis, responses and land management practices have evolved to the changing situation and need. At the time of writing, camping is not allowed in the properties along the greenway. This Vision Plan does not propose camping, but seeks to build compassion and community amidst changing conditions by providing information written here.

Short-term responses to camps may hinder efforts by support services and unsheltered individuals seeking long-term housing solutions. Park relocations can strain city department resources, draining time and money away from parks improvements city-wide. The displacement of people

1 https://www.austinecho.org/about-echo/ homelessness-in-austin/ experiencing homelessness from parks in this manner also further entrenches homelessness. After a clean-up, displaced individuals may simply relocate to a new area on public land, making it difficult for organizations that provide support services to locate them to connect them to housing and other resources. When clean-ups dispose of people's belongings, this further burdens unsheltered individuals. They must then use their limited financial means to purchase or procure more blankets, tents, or supplies needed to survive living outdoors and limits their ability to spend money on food, transportation, and shelter.

Fully addressing the causes of homelessness is a complex and long-term undertaking that is outside the scope of this Vision Plan. In the short-term, taking an empathetic and communicative approach may help ameliorate conflicts.

At Central Williamson Creek Greenway, the following approaches are recommended:

1. Prioritize project implementation in areas along Williamson Creek that will not displace people experiencing homelessness, work with the city to implement projects with participation of unsheltered individuals.

2. Post the names and contact information of resources like The Other Ones Foundation (TOOF) to community message boards. Many unsheltered individuals are not aware of community resources available to help them secure shelter, personal hygiene, food, access to the internet, and other necessities.

3. Temporarily employ unsheltered individuals on land improvement projects. The City of Austin contracts with The Other Ones Foundation (TOOF) on projects like trail-building and invasive species removal. Consider coordinating between the COA and TOOF on appropriate projects along the greenway, including:

- Creation of Nature Trails
- Creek and Woodland Restoration
- Community Gardens
- Invasive Species Removal
- Pollinator Nesting Boxes
- Signage Installation

Invest in neighborhood public education around unsheltered individuals, emphasizing the following ideas:

- Those experiencing homelessness are part of our community.
- It is possible for anyone to experience homelessness.
- Everone is welcome to use public parks and open spaces
- Those experiencing homelessness may face life-long issues, such as poverty, mental health concerns, physical ailments, and/or addiction.
- Public complaints may strain park resources.
- Public complaints that result in displacement may hinder long-term efforts to find housing for unsheltered individuals. homelessness.

4. Educate the neighborhood about the newly expanded Integral Care-EMCOT (Expanded Mobile Crisis Outreach Team) a branch of 911 that responds to all mental health-related 911 calls that do not present an imminent threat to public safety without the involvement of city or county police. Neighbors can be directed to request a mental health professional to resolve conflicts rather than police in an effort to stem the potential for police violence against an unsheltered individual and to better address non-violent crisis with the correct training.

5. Support affordable housing in the community. Connect with organizations like HousingWorks Austin, Austin Housing Coalition, and Reform Austin.

6. Advocate for trash cans and trash removal services to service these communities. Support shelterless individuals in taking a land stewardship approach to the spaces they inhabit by providing the resources to remove trash and refuse from the site as well as through educational programs on local ecology and general stewardship principles.

Austin-Based Resources

The Other Ones Foundation Provides employment and case management

Ending Community Homelessness Coalition

Plans community-wide strategies to end homelessness

Austin Resource Center for the Homeless City-owned men's shelter

Austin Shelter for Women and Children Emergency shelter for adult women and their dependents

Front Steps Offers emergency shelter

United Way for Greater Austin Connects people to a wide range of services

Mobile Loaves and Fishes Provides food, clothing, hygiene products, and housing

7: Aftervord & Appendices





AFTERWORD

The Central Williamson Creek Greenway Vision Plan has been created to guide future greenway improvements and to support fundraising efforts for both communitybuilt and City of Austin-built projects by identifying four primary goals envisioned for the future of the Greenway. These goals, along with their corresponding design strategies, were created from both community input and trail, parks, and ecological design best practices.

Upon approval from the City of Austin's Parks and Recreation Board, this plan is to become a planning document of record, reflecting the desires of the Community Working Group, and the general public to create an ecologically sound and inclusive vision for the future of Central Williamson Creek Greenway. With strategic investment and further design, Central Williamson Creek Greenway, already a beloved place for many, has the potential to become a community-wide park to the growing neighborhood and Austin Community.

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Appendix A RECOMMENDED PLANT LIST

Native Texas plants should always be selected for woodland restoration, wetland restoration, wildflower planting, and green infrastructure along the greenway. The following is a short list of example species. Consult resources the Lady Bird Johnson Wildflower Center, Austin Grow Green Guide, Texas A&M AgriLife Extension Service of Travis County for more information on plant species selection.

	Forbs	Grasses	Shrubs	Trees
Wetland	American Water-willow (Justica americana) Obedient Plant (Physostegia virginiana), Swamp Milkweed (Asclepias incarnata), Spiderwort (Tradescantia spp.), Rosemallow (Hibiscus laevis), Virginia Iris (Iris virginiana)	Bushy Bluestem (Andropogon glomeratus), Cherokee Sedge (Carex cherokeensis), Purple Threeawn (Aristida purpurea)	Buttonbush (Cephalanthus occidentalis), Globe Mallow (Sphaeralcea ambigua)	Black Wil Cypress (Americar deltoides (Platinus
Woodland	Turkscap (Malaviscus arboreus), Red Columbine (Aquilegia canadensis), River Fern (Thelypteris kunthii)	Southwestern Bristle Grass (Setaria scheelei), Cherokee Sedge (Carex cherokeensis), Inland Sea Oats (Chasmanthium latifolium)	Virginia Sweetspire (Itea virginica), American Beautyberry (Callicarpa americana), Redbud (Cerces canadensis), Yaupon Holly (Ilex vomitoria), Flame Acanthus (Anisacanthus quadrifidus)	Curly me Cedar Elr Americar Pecan (C Hackberr Elder (Ac (Quercus Oak (Que
Wildflower Meadow	Illinois Bundleflower (Desmanthus illinoensis), Bluebonnet (Lupinus texensis), Black-eyed Susan (Rudbeckia hirta), Zexmenia, Gayfeather (Liatris mucronata), Butterflyweed (Asclepias tuberosa), Standing Cyrpress (Ipomopsis rubra), Horsemint (Monarda citiodora), Plains coreopsis (Coreopsis tinctoria)	Purple threeawn (Aristida purpurea), Sideoats grama (Bouteloua curtipendula), Silver bluestem (Bothriochloa saccharoides), Green Sprangletop (Leptochloa dubia),	N/A, Woody vegetation should be used sparingly in wildflower meadows.	N/A, Woo be used s meadows
Green Infrastructu	Coneflower (Echinacea purpurea), Wax Mallow (Malaviscus arboreus var. drummondii), Bergamot (Monarda fistulosa), Blood Sage (Salvia coccinea), Obedient Plant, Blue Mistflower	Indiangrass (Sorghastrum nutans), Sideoats Grama (Bouteloua curtipendula), Switchgrass (panicum virgatum)	Buttonbush (Cephalanthus occidentalis), Southern Wax Myrtle (Myrica cerifera), American Beauty Berry (Callicarpa americana)	Bald Cyp

Villow (Salix nigra); Bald s (Taxodium distichum), an Cottonwood (Populus es), American Sycamore us occidentalis)

nesquite (Hilaira belangeri), Elm (Ulmus crassifolia), can elm (Ulmus americana), (Carya illinoinensis), erry (Celtis occidentalis), Box Acer negundo), Live Oak us virginiana), Texas Red guercus buckleyi)

body vegetation should d sparingly in wildflower ws.

/press (Taxodium distichum)

Appendix B RECOMMENDED MATERIALS CRITERIA

Selecting sustainable and safe materials for construction along Williamson Creek will ensure the continued health of the creek and lessen the environmental impacts of construction and development. Learn more about these strategies through the Sustainable Sites Initiative (sustainablesites.org).

Recommendation	Intent	Strategy 1	Strategy 2	Strategy 3	More Resources
Use sustainable wood sources	Many commonly-used landscape wood products are sourced from thretened tree species or threatened ecosystems. Minimize impact on these species by purchasing sustainably-sourced wood from non-threatened tree species.	Review the Convention on International Trade in Endangered Species (CITES) website to review the status of tree species and ensure that is not threatened with extinction or listed as requiring trade controls to avoid utilization incompatible with their survival. www.cites.org/eng/resources/ species.html	Review the Internationan Union for Conservation of Nature's "Red List of Endangered Species to ensure the species is not in danger of extinction. www.iucnredlist.org.	Use recycled plastic, composite lumber, or another material instead of wood.	
Use salvaged materials and plants	Salvaging landscape materials from on-site or from re-use suppliers like a member of the Building Materials Reuse Assocation is an effective way to divert waste from landfills and conserve financial resources. Salvaged plant materials also conserves native, local plant genetic pools.	Identify salvaged materials suppliers or local demolition and construction projects. Search diirectories of reuse stores here: Building Materials Reuse Association, www.buildingreuse. org Habitat for Humanity's ReStore, www.habitat.org/env/restores.aspx	Get in touch with a local native plant conservation group. Many of these groups "rescue" native plants from construction sites, and may be able to provide locally- sourced salvaged plants.		Green Building Research Guide's searchable database, www.greenguide.com/ exchange/search.html Reuse Development Organization, www.redo. org
Use materials with a high recycled content	Use of new materials with a high recycled content reduces resource extraction and diverts materials away from landfills and into the production of new materials.	Speak with local materials suppliers about products that may help achieve this goal. Examples of some materials include plastic lumber with recycled content, asphalt with recycled asphalt aggregate, and high recycled content steel.	Learn more about recycled products and industry materials recycling. The U.S. EPA Industrial Materials website: www.epa.gov/ industrialmaterials The U.S. EPA's Comprehensive Procurement Guidelines www.epa.gov/cpg		California Department of Resources and Recycling, Recycled Content Products Directory, www.calrecycle. ca.gov/RCP/default.asp

Recommendation	Intent	Strategy 1	Strategy 2	Strategy 3	More Resources
Use regional materials	Sourcing regional landscape materials and plants has many benefits, including reducing the use of fossil fuels used for transportation, supporting local economies, increasing the demand and therefore the future supply of native plants, and supporting regional identity through the use of local materials.	Soils, compost, mulch, boulders, and aggregate sourcing should occur within 50 miles of the project site.	Plant material should be grown and supplied within 250 miles of the site.	The extraction, harvest or recovery, and manufacture of all other materials should occur within 500 miles of the site.	For more information about materials and resources, consult the U.S. Green Building Council's website: leedcasestudies. usgbc.org/materials. cfm?ProjectID=189. JW Thompson and K Sorvig, Sustainable Landscape Construction: A Guide to Green Building Outdoors (Washington, D.C., Island Press, 2000.
Use materials that will not harm the health of Williamson Creek or human health.	Use materials that do not contain chemicals known to harm human health or aquatic health. Prioritize materials that have chemical inventories, life-cycle information and hazard assessments. In addition to eliminating harmful chemical runoff, do not use materials that contribute sediment or aggregate to the creek.	Specify products from manufacturers who can provide chemical inventories covering all chemicals in each life cycle stage of the product. Manufacturers should also report all known hazards and their concentrations.	Use materials without topical finishes or other chemical additives whenever possible.	Learn more about chemicals in building products by consulting Pharos Project's Chemical and Material Library at www. pharosproject.net/material.	United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), www.osha.gov/dsg/ hazcom/ghs.html. Green chemicals standards are listen through NSF/GCI/ANSI 355 Greener Chemicals Products and Processes Information Standard, www.nsf.org/business/ sustainability/product_ greener_chemicals.

Appendix C **OPINION OF PROBABLE COSTS SUMMARY**



AREA

TIER 1 - 15,000-30,000* TIER 2 - 206,000 TIER 3 - 320,000

Meadow Creek Trailhead

TIER 1 - 15,000-

TIER 2 - 175,000

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30,000*

Orland Trailhead

Emerald Wood Community Garden

IMPLEMENTATION STREAM **OPINION OF PROBABLE COST BY AREA**



TIER 1 -15,000-42,000* TIER 2 - 150,000 TIER 3 740,000

Heartwood Community Garder

OPINION OF PROBABLE COSTS - AREA 1 - TIER 1

AREA 1 - TIER 2 IDEA	QUANTITY	UNIT	UNIT COST	\$30,674.33 SUBTOTAL	Comments
IDEA	QUANTITY	UNIT	UNIT COST	SUBTUTAL	Costs for this phase could be further reduced by partnering with City of Austin o
Invasive Species Removal					renting equipment. Costs in this section indicate approximate cost to purchase of community volunteers with approval by the City of Austin property owner.
Weed Wrench	3	EA	\$189.00	\$567.00	
Loppers	4	EA	\$50.00	\$200.00	
Mattock	2	EA	\$50.00	\$100.00	
Shovel - Round Point	4	EA	\$50.00	\$200.00	
Aborist Hand Saw	2	EA	\$75.00	\$150.00	
Tree Paint	10	EA	\$6.00	\$60.00	
Tree Girdler Tool	4	EA	\$222.00	\$888.00	
General Conditions Sub-Total				\$2,165.00	
Seating - Informal, Wilderness					May be boulders or logs adjacent to nature trail where uses can rest. Provide inform volunteers with permission from City of Austin property owners.
Boulders - Existing		EA	\$-	\$-	Community members may not move existing boulders, but may take advantage of th side of the critical environmental feature setback zone.
Logs - Existing		EA	\$-	\$-	Logs may be cut into 4-feet in length or smaller and placed near the trail. No native t
Logs - Invasive Species Removal		EA	\$-	\$-	Large trees removed in Tier 2 efforts may be reclaimed for informal seating near tra
Seating Sub-Total				\$-	
Nature Trail - 1 mile					Assumes labor by volunteers with permission from City of Austin property owners.
Mulch - Wholesale	293	CY	\$40.00	\$11,733.33	First grind mulch placed 3-inches thick on a 6ft wide nature trail. Collaborate with Ci
Wood Chipper Rental		DAY	\$400.00	\$-	Cost may be reduced by partnering with local non-profit such as Keep Austin Beautif
Mulch - Invasive Species		CY	\$-	\$-	Use branches 6-inches or larger. Ensure no branches or seeds are placed into the work removal may be used to reduce cost of retail mulch.
Nature Trail - 1 mile Sub-Total				\$11,733.33	
Mountain Bike Trail - 1 mile					Assumes labor by volunteers with permission from City of Austin property owners.
Shovel - Round Point	4	EA	\$50.00	\$200.00	No digging over 6-inches to level the trail.
Loppers	4	EA	\$50.00	\$200.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade mus
Aborist Hand Saw	2	EA	\$75.00	\$150.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade mus
Tree Paint	10	EA	\$6.00	\$60.00	All pruning areas must be covered in tree paint.
Natural Trail - 1 mile Sub-Total				\$610.00	

or a local non profit for use of tools rather than purchasing or equipment. Tier 1 invasive species removal to involve a group

mal seating every 1/8-mile for broader access. Assumes labor by

them by locating a natural trail nearby so long as the area is out-

e trees may be cut by community members to create logs. rail.

City of Austin property owner or non-profit for reduced cost.

tiful, or City of Austin property owners PARD or WPD

wood chipper. Grind the mulch twice. Mulch from invasive species

ist be washed in bleach between every new tree.

ust be washed in bleach between every new tree.

OPINION OF PROBABLE COSTS - AREA 1 - TIER 1 (CONTINUED)

Native Shade Tree	60	Lump	\$-	\$-	Tree Folks NeighborWoods Program
Native Ornamental Tree	60	EA	\$-	\$-	Tree Folks NeighborWoods Program
Mulch	3	CY	\$40.00	\$133.33	Organic, shredded hardwood mulch for trees and display planting areas.
Planting Bed Soil	3	CY	\$65.00	\$216.67	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree pit
Subtotal Planting				\$350.00	

CREEK RESTORATION - PLANTS					Tier 1 Planting for Area 1 includes accent planting at trailheads and restoration plant cies removal areas. Community volunteers to collaborate with City of Austin and non Community members and community gardens could learn from local organizations so and save costs. Assumes labor by volunteers with permission from City of Austin pro
Native Grass Live Root Bunch	50	EA	\$20.00	\$1,000.00	Bunches of live roots of native grasses.
Shrub/Cacti	30	EA	\$20.00	\$600.00	1 Gal. containers of native cactii
Native Perennials	200	EA	\$10.00	\$2,000.00	4" pot of native plants planted at trail heads
Vine	30	EA	\$15.00	\$450.00	4" pot native vine to be planted along fences or vertical elements
Mulch	130	CY	\$40.00	\$5,200.00	Organic, shredded hardwood mulch for trees and display planting areas.
Planting Bed Soil	100	CY	\$65.00	\$6,500.00	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree pit
Subtotal Planting				\$15,750.00	

DISCLAIMER ON THE OPINION OF PROBA-

BLE CONSTRUCTION COST

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nting with native trees, grasses and perennials at invasive speonprofits to receive wholesale or discounted prices on materials. such as Native Plant Society of Texas to propogate native plants roperty owners.

pits.

OPINION OF PROBABLE COSTS - AREA 1 - TIER 2

AREA 1 - TIER 2				\$206,015.99	
Item	Quantity	Unit	Unit Cost	Extension	Comments
Bonded Hardwood Mulch Loop Trail				\$82,929.88	
At Menchaca Road Trailhead				\$29,605.11	1/8 mile loop
General Conditions					
Mobilization	1	LS	5%	\$1,357.65	5% of Project Subtotal
Stabilized Construction Access	30	SY	\$15.00	\$450.00	
SWPPP maintenance	3	Month	\$8.00	\$24.00	
Safety and PPE	1	LS	\$500.00	\$500.00	
Job Site Supervision		WK	\$100.00	\$-	projected job duration in weeks
Job Site Fencing and Gate		LF	\$3.80	\$-	Perimeter only
Bond		LS	0.15%	\$40.73	0.15% of Project Subtotal
Insurance		LS	2%	\$543.06	2% of Project Subtotal
Fencing Screen	200	LF	\$2.00	\$400.00	
Fence Sand Bags	20	EA	\$5.50	\$110.00	1 per 10 LF
Tree Protection Fencing					
Temporary Chainlink fence	200	LF	\$3.00	\$600.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	3	Month	\$125.00	\$375.00	
Hardscape					
Bonded Hardwood Mulch	1,980	SF	\$12.50	\$24,750.00	6ft wide hardwood mulch with binder
Grading /Drainage					
Site Grading	147	SY	\$3.10	\$454.67	Grading for accessibility
At Utility Corridor				\$53,324.77	1/4 mile loop
General Conditions					
Mobilization	1	LS	5%	\$1,357.65	5% of Project Subtotal
Stabilized Construction Access	30	SY	\$15.00	\$450.00	
SWPPP maintenance	3	Month	\$8.00	\$24.00	
Safety and PPE	1	LS	\$500.00	\$500.00	
Job Site Supervision		WK	\$100.00	\$-	projected job duration in weeks
Job Site Fencing and Gate		LF	\$3.80	\$-	Perimeter only
Bond		LS	0.15%	\$40.73	0.15% of Project Subtotal
Insurance		LS	2%	\$543.06	2% of Project Subtotal
Hardscape					

OPINION OF PROBABLE COSTS - AREA 1 - TIER 2 (CONTINUED)

Bonded Hardwood Mulch	3,960	SF	\$12.50	\$49,500.00	6ft wide hardwood mulch with binder
Grading /Drainage					
Site Grading	293	SY	\$3.10	\$909.33	Grading for accessibility
Seating -Accessible, Park				\$5,000.00	
Bench	2	EA	\$2,500.00	\$5,000.00	City of Austin PARD benches
Waste Receptables at Trailheads				\$15,000.00	
Litter Receptacles	3	EA	\$2,500.00	\$7,500.00	City of Austin PARD standard
Recycling Receptacles	3	EA	\$2,500.00	\$7,500.00	City of Austin PARD standard
Community Kiosk				\$1,500.00	
Message Board	1	EA	\$1,000.00	\$1,500.00	4ftx6ft wood frame message board with roof
Weather Warning Signage				\$1,800.00	
Metal Post Sign	3	EA	\$600.00	\$1,800.00	Galvanized aluminum post set in concrete, reflective aluminum sign
Geology Interpretive Sign				\$1,000.00	
Metal Sign	1	EA	\$1,000.00	\$1,000.00	Galvanized aluminum post set in concrete, reflective aluminum sign
Wildflower Meadow				\$98,786.11	
At Utility Corridor					Can be done in phases
Soil Removal	1,472	CY	\$10.00	\$14,722.22	
Site Grading	1,472	SY	\$3.10	\$4,563.89	
Wildflower Hydroseed	159,000	SF	\$0.50	\$79,500.00	
Reclaimed Branch Berm				\$-	
Branches 3-inch Diameter		LS	\$-	\$-	
Rock Berm				\$833.33	
9-12-inch Rock	42	CY	\$20.00	\$833.33	Rock berm 1'-6" height max

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OPINION OF PROBABLE COSTS - AREA 1 - TIER 3

AREA 1 - TIER 3				\$316,955.46	
Bike Lanes				\$10,600.00	
Jentsch Court					Extension of Jones Road bike lanes east across Menchaca to neighborhood
Striping	530	LF	\$20.00	\$10,600.00	City of Austin standard
Flexible Delineator	35	EA	\$40.00	\$1,413.33	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
Lansing Drive					Extension of Jones Road bike lanes east across Menchaca to neighborhood
Striping	3,400	LF	\$20.00	\$68,000.00	City of Austin standard
Flexible Delineator	227	EA	\$40.00	\$9,066.67	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
High Water Route				\$26,000.00	
Sidewalk on Menchaca to Kings Hwy					Extension of Jones Road bike lanes east across Menchaca to neighborhood
Thermoplastic Pavement Markings	1,300	LF	\$20.00	\$26,000.00	High traffic pavement markings for wayfinding to indicate high water route
Green Infrastructure				\$280,355.46	
Stormwater Quality Feature adjacent to				\$280,355.46	Large stormwater quality feature intercepting stormwater outfall into cree
General Conditions				\$51,331.76	Section to be used when Asakura Robinson is the Prime.
Mobilization		LS	5%	\$13,082.35	5% of Project Subtotal
Stabilized Construction Access	300	SY	\$15.00	\$4,500.00	
SWPPP maintenance	8	Month	\$8.00	\$64.00	
Safety and PPE	8	LS	\$500.00	\$4,000.00	
Job Site Supervision	96	WK	\$100.00	\$9,600.00	projected job duration in weeks
Job Site Fencing and Gate	3,000	LF	\$3.80	\$11,400.00	Perimeter only
Bond		LS	0.15%	\$392.47	0.15% of Project Subtotal
Insurance		LS	2%	\$5,232.94	2% of Project Subtotal
Fencing Screen	1,200	LF	\$2.00	\$2,400.00	
Fence Sand Bags	120	EA	\$5.50	\$660.00	1 per 10 LF
Tree Protection Fencing				\$4,000.00	
Temporary Chainlink fence	1,000	LF	\$3.00	\$3,000.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	8	Month	\$125.00	\$1,000.00	
Demolition				\$10,105.19	
Tree Removal	2	EA	\$10.00	\$20.00	Invasive Species only
Clearing and grubbing of vegetation	14,000	SF	\$0.35	\$4,900.00	
Soil Removal	519	CY	\$10.00	\$5,185.19	

OPINION OF PROBABLE COSTS - AREA 1 - TIER 3 (CONTINUED)

Grading /Drainage				\$88,881.48	
Site Grading	14,000	SF	\$3.10	\$43,400.00	
Landscape Area Drains	2	EA	\$2,000.00	\$4,000.00	Civil to provide connections
Bioinfiltration Media	519	CY	\$80.00	\$41,481.48	
Planting				\$126,037.04	
Ornamental Grass	3,780	EA	\$25.00	\$94,500.00	1 Gal. mix of grasses and perennials- must meet ECM diversity requiremen
Mulch	130	CY	\$65.00	\$8,425.93	3"
Top Soil Fine Grading	156	CY	\$65.00	\$10,111.11	4"
Irrigation	4	ZN	\$2,500.00	\$10,000.00	
Irrigation Meter	1	EA	\$3,000.00	\$3,000.00	2" meter

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OPINION OF PROBABLE COSTS - AREA 2 - TIER 1

AREA 1 - TIER 2 IDEA	QUANTITY	UNIT	UNIT COST	\$30,734.33 SUBTOTAL	Comments
Invasive Species Removal					Costs for this phase could be further reduced by partnering with City of Austin or a local non ment. Costs in this section indicate approximate cost to purchase equipment. Tier 1 invasive with approval by the City of Austin property owner.
Weed Wrench	3	EA	\$189.00	\$567.00	
Loppers	4	EA	\$50.00	\$200.00	
Mattock	2	EA	\$50.00	\$100.00	
Shovel - Round Point	4	EA	\$50.00	\$200.00	
Aborist Hand Saw	2	EA	\$75.00	\$150.00	
Tree Paint	10	EA	\$6.00	\$60.00	
Tree Girdler Tool	4	EA	\$222.00	\$888.00	
General Conditions Sub-Total				\$2,165.00	
Seating - Informal, Wilderness					May be boulders or logs adjacent to nature trail where uses can rest. Provide informal so by volunteers with permission from City of Austin property owners.
Boulders - Existing	NA	EA	\$-	\$-	Community members may not move existing boulders, but may take advantage of them b outside of the critical environmental feature setback zone.
Logs - Existing		EA	\$-	\$-	Logs may be cut into 4-feet in length or smaller and placed near the trail. No native trees
Log Stumps - Invasive Species Remov-	30	EA	\$-	\$-	Large trees removed in Tier 2 efforts are reclaimed for stumps at outdoor classrooms an
Seating Sub-Total				\$-	
Nature Trail - 1 mile					Assumes labor by volunteers with permission from City of Austin property owners.
Mulch - Wholesale	293	CY	\$40.00	\$11,733.33	First grind mulch placed 3-inches thick on a 6ft wide nature trail. Collaborate with City of
Wood Chipper Rental		DAY	\$400.00		Cost may be reduced by partnering with local non-profit such as Austin Parks Foundation
Mulch - Invasive Species		CY	\$-	\$-	Use branches 6-inches or larger. Ensure no branches or seeds are placed into the wood c cies removal may be used to reduce cost of retail mulch.
Nature Trail - 1 mile Sub-Total				\$11,733.33	
Mountain Bike Trail - 1 mile					Assumes labor by volunteers with permission from City of Austin property owners.
Shovel - Round Point	4	EA	\$50.00	\$200.00	No digging over 6-inches to level the trail.
Loppers	4	EA	\$50.00	\$200.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade must be κ
Aborist Hand Saw	2	EA	\$75.00	\$150.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade must be
Tree Paint	10	EA	\$6.00	\$60.00	All pruning areas must be covered in tree paint.
Natural Trail - 1 mile Sub-Total				\$610.00	

profit for use of tools rather than purchasing or renting equipspecies removal to involve a group of community volunteers

seating every 1/8-mile for broader access. Assumes labor

by locating a natural trail nearby so long as the area is

es may be cut by community members to create logs. and music grove.

of Austin property owner or non-profit for reduced cost.

on, or City of Austin property owners PARD or WPD

chipper. Grind the mulch twice. Mulch from invasive spe-

washed in bleach between every new tree.

washed in bleach between every new tree.

OPINION OF PROBABLE COSTS - AREA 2 - TIER 1 (CONTINUED)

Pollinator Nesting Boxes					Assumes labor by volunteers with permission from City of Austin property owners. Quan boxes.
Wood Boards	6	EA	\$10.00	\$60.00	2x4x8 Rough Sawn Atlantic Cedar - untreated
Fasteners	3	EA	\$10.00	\$30.00	3-inch Wood Screws
Dried bamboo	0	LS	\$-	\$-	Harvest from invasive species removal
Drill Bit	1	EA	\$12.00	\$12.00	3/8 Drill Bit
4x4 Wood Post	1	EA	\$24.00	\$24.00	4x4x8 Rough Sawn Atlantic Cedar - untreated cut to 3ft length
Subtotal Planting				\$126.00	
CREEK RESTORATION - TREES					Tier 1 Planting for Area 2 tree plantings include small 5 gallon trees sourced from Tree F source. Community members and community gardens could also partner with non profite labor by volunteers with permission from City of Austin property owners.
CREEK RESTORATION - TREES	60	Lump	\$-	\$-	source. Community members and community gardens could also partner with non profit
	60 60	Lump	\$- \$-	<u>\$-</u> \$-	source. Community members and community gardens could also partner with non profite labor by volunteers with permission from City of Austin property owners.
Native Shade Tree		· ·			source. Community members and community gardens could also partner with non profite labor by volunteers with permission from City of Austin property owners. Tree Folks NeighborWoods Program
Native Shade Tree Native Ornamental Tree	60	EA	\$-	;- \$-	source. Community members and community gardens could also partner with non profite labor by volunteers with permission from City of Austin property owners. Tree Folks NeighborWoods Program Tree Folks NeighborWoods Program

			(
CREEK RESTORATION - PLANTS					Tier 1 Planting for Area 1 includes accent planting at trailheads and restoration planting species removal areas. Community volunteers to collaborate with City of Austin and non materials. Community members and community gardens could learn from local organiza native plants and save costs. Assumes labor by volunteers with permission from City of A
Native Grass Live Root Bunch	50	EA	\$20.00	\$1,000.00	Bunches of live roots of native grasses.
Shrub/Cacti	30	EA	\$20.00	\$600.00	1 Gal. containers of native cactii
Native Perennials	200	EA	\$10.00	\$2,000.00	4" pot of native plants planted at trail heads
Vine	30	EA	\$15.00	\$450.00	4" pot native vine to be planted along fences or vertical elements
Mulch	130	CY	\$40.00	\$5,200.00	Organic, shredded hardwood mulch for trees and display planting areas. To reduce cost,
Planting Bed Soil	100	CY	\$65.00	\$6,500.00	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree pits.
Subtotal Planting				\$15,750.00	

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antities of materials will be sufficient for up to 6 nesting

e Folks NeighborWoods Program or a similar non-profit its to propogate native trees for the greenway. Assumes

st, community members may apply for a grant from Austin

g with native trees, grasses and perennials at invasive nprofits to receive wholesale or discounted prices on zations such as Native Plant Society of Texas to propogate f Austin property owners.

t, community members may apply for a grant from Austin

OPINION OF PROBABLE COSTS - AREA 2 - TIER 2

AREA 2 - TIER 2				\$176,125.48	
Item	Quantity	Unit	Unit Cost	Extension	Comments
Bonded Hardwood Mulch Loop Trail				\$29,605.11	
At Meadow Creek Trailhead				\$29,605.11	1/8 mile loop
General Conditions					
Mobilization	1	LS	5%	\$1,357.65	5% of Project Subtotal
Stabilized Construction Access	30	SY	\$15.00	\$450.00	
SWPPP maintenance	3	Month	\$8.00	\$24.00	
Safety and PPE	1	LS	\$500.00	\$500.00	
Job Site Supervision		WK	\$100.00	\$-	projected job duration in weeks
Job Site Fencing and Gate		LF	\$3.80	\$-	Perimeter only
Bond		LS	0.15%	\$40.73	0.15% of Project Subtotal
Insurance		LS	2%	\$543.06	2% of Project Subtotal
Fencing Screen	200	LF	\$2.00	\$400.00	
Fence Sand Bags	20	EA	\$5.50	\$110.00	1 per 10 LF
Tree Protection Fencing					
Temporary Chainlink fence	200	LF	\$3.00	\$600.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	3	Month	\$125.00	\$375.00	
Hardscape					
Bonded Hardwood Mulch	1,980	SF	\$12.50	\$24,750.00	6ft wide hardwood mulch with binder
Grading /Drainage					
Site Grading	147	SY	\$3.10	\$454.67	Grading for accessibility
Food Forest				\$14,000.00	
Meadow Creek Trailhead on Meadow	1	EA	\$7,000.00	\$7,000.00	
Meadow Creek Trailhead on Radam Circle	1	EA	\$7,000.00	\$7,000.00	
Seating - Informal, Wilderness				\$8,000.00	
Boulders	20	EA	\$400.00	\$8,000.00	4x6 Limestone boulders. Refer to materials list for additional requirement
Waste Receptables at Trailheads				\$25,000.00	
Litter Receptacles	5	EA	\$2,500.00	\$12,500.00	City of Austin PARD standard
Recycling Receptacles	5	EA	\$2,500.00	\$12,500.00	City of Austin PARD standard
Community Kiosk				\$1,500.00	
Message Board	2	EA	\$1,000.00	\$1,500.00	4ftx6ft wood frame message board with roof
Weather Warning Signage				\$2,400.00	

nts.	

OPINION OF PROBABLE COSTS - AREA 2 - TIER 2 (CONTINUED)

Metal Post Sign	4	EA	\$600.00	\$2,400.00	Galvanized aluminum post set in concrete, reflective aluminum sign
Geology Interpretive Sign				\$4,000.00	
Metal Sign	4	EA	\$1,000.00	\$4,000.00	Galvanized aluminum post set in concrete, reflective aluminum sign
Wildflower Meadow				\$105,620.37	
At Meadow Creek Trailhead				\$18,638.89	
Soil Removal	278	CY	\$10.00	\$2,777.78	
Site Grading	278	SY	\$3.10	\$861.11	
Wildflower Hydroseed	30,000	SF	\$0.50	\$15,000.00	
At Emerald Wood Floodplain Buyouts				\$46,597.22	May be done in phases by each lot.
Soil Removal	694	CY	\$10.00	\$6,944.44	
Site Grading	694	SY	\$3.10	\$2,152.78	
Wildflower Hydroseed	75,000	SF	\$0.50	\$37,500.00	
At Emerald Wood Floodplain Buyouts				\$40,384.26	May be done in phases.
Soil Removal	602	CY	\$10.00	\$6,018.52	
Site Grading	602	SY	\$3.10	\$1,865.74	
Wildflower Hydroseed	65,000	SF	\$0.50	\$32,500.00	
Reclaimed Branch Berm				\$-	
Branches 3-inch Diameter		LS	\$-	\$-	
Rock Berm				\$833.33	
9-12-inch Rock	42	CY	\$20.00	\$833.33	Rock berm 1'-6" height max

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OPINION OF PROBABLE COSTS - AREA 2 - TIER 3

AREA 2 - TIER 3				\$337,343.61	
Bike Lanes				\$99,733.33	
Radam Circle				\$27,200.00	
Striping	1,200	LF	\$20.00	\$24,000.00	City of Austin standard
Flexible Delineator	80	EA	\$40.00	\$3,200.00	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
Meadow Creek Circle Drive				\$15,866.67	
Striping	700	LF	\$20.00	\$14,000.00	City of Austin standard
Flexible Delineator	47	EA	\$40.00	\$1,866.67	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
Emerald Wood Drive				\$56,666.67	
Striping	2,500	LF	\$20.00	\$50,000.00	City of Austin standard
Flexible Delineator	167	EA	\$40.00	\$6,666.67	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
High Water Route				\$88,000.00	
Emerald Wood Drive					
Thermoplastic Pavement Markings	2,500	LF	\$20.00	\$50,000.00	High traffic pavement markings for wayfinding to indicate high water route
Radam Circle					
Thermoplastic Pavement Markings	1,200	LF	\$20.00	\$24,000.00	High traffic pavement markings for wayfinding to indicate high water route
Meadow Creek Circle Drive					
Thermoplastic Pavement Markings	700	LF	\$20.00	\$14,000.00	High traffic pavement markings for wayfinding to indicate high water route
Green Infrastructure				\$149,610.28	
Rain Garden on Meadow Creek Circle				\$149,610.28	Series of raingardens intercepting stormwater from MeadowCreek Drive b
General Conditions				\$51,331.76	Section to be used when Asakura Robinson is the Prime.
Mobilization		LS	5%	\$13,082.35	5% of Project Subtotal
Stabilized Construction Access	300	SY	\$15.00	\$4,500.00	
SWPPP maintenance	8	Month	\$8.00	\$64.00	
Safety and PPE	8	LS	\$500.00	\$4,000.00	
Job Site Supervision	96	WK	\$100.00	\$9,600.00	projected job duration in weeks
Job Site Fencing and Gate	3,000	LF	\$3.80	\$11,400.00	Perimeter only
Bond		LS	0.15%	\$392.47	0.15% of Project Subtotal
Insurance		LS	2%	\$5,232.94	2% of Project Subtotal
Fencing Screen	1,200	LF	\$2.00	\$2,400.00	
Fence Sand Bags	120	EA	\$5.50	\$660.00	1 per 10 LF
Tree Protection Fencing				\$4,000.00	
Temporary Chainlink fence	1,000	LF	\$3.00	\$3,000.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	8	Month	\$125.00	\$1,000.00	

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OPINION OF PROBABLE COSTS - AREA 2 - TIER 3 (CONTINUED)

Demolition				\$3,765.93	
Tree Removal	2	EA	\$10.00	\$20.00	Invasive Species only
Clearing and grubbing of vegetation	5,200	SF	\$0.35	\$1,820.00	
Soil Removal	193	CY	\$10.00	\$1,925.93	
Grading /Drainage				\$35,527.41	
Site Grading	5,200	SF	\$3.10	\$16,120.00	
Landscape Area Drains	2	EA	\$2,000.00	\$4,000.00	Civil to provide connections
Bioinfiltration Media	193	CY	\$80.00	\$15,407.41	
Planting				\$54,985.19	
Ornamental Grass	1,404	EA	\$25.00	\$35,100.00	1 Gal. mix of grasses and perennials- must meet ECM diversity requirem
Mulch	48	CY	\$65.00	\$3,129.63	3"
Top Soil Fine Grading	58	CY	\$65.00	\$3,755.56	4"
Irrigation	4	ZN	\$2,500.00	\$10,000.00	
Irrigation Meter	1	EA	\$3,000.00	\$3,000.00	2" meter
Stormwater Quality Feature on Radam				\$133,031.39	Large stormwater quality feature intercepting stormwater outfall that cu
General Conditions				\$51,331.76	Section to be used when Asakura Robinson is the Prime.
Mobilization		LS	5%	\$13,082.35	5% of Project Subtotal
Stabilized Construction Access	300	SY	\$15.00	\$4,500.00	
SWPPP maintenance	8	Month	\$8.00	\$64.00	
Safety and PPE	8	LS	\$500.00	\$4,000.00	
Job Site Supervision	96	WK	\$100.00	\$9,600.00	projected job duration in weeks
Job Site Fencing and Gate	3,000	LF	\$3.80	\$11,400.00	Perimeter only
Bond		LS	0.15%	\$392.47	0.15% of Project Subtotal
Insurance		LS	2%	\$5,232.94	2% of Project Subtotal
Fencing Screen	1,200	LF	\$2.00	\$2,400.00	
Fence Sand Bags	120	EA	\$5.50	\$660.00	1 per 10 LF
Tree Protection Fencing				\$4,000.00	
Temporary Chainlink fence	1,000	LF	\$3.00	\$3,000.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	8	Month	\$125.00	\$1,000.00	
Demolition				\$4,151.48	

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OPINION OF PROBABLE COSTS - AREA 2 - TIER 3 (CONTINUED)

1	1	1	1		
Storm Inlet Removal	1	EA	\$500.00	\$500.00	
Small Drain/Inlet Removal	1	EA	\$250.00	\$250.00	
Manhole Removal	1	EA	\$500.00	\$500.00	
Tree Removal	2	EA	\$10.00	\$20.00	Invasive Species only
Clearing and grubbing of vegetation	4,000	SF	\$0.35	\$1,400.00	
Soil Removal	148	CY	\$10.00	\$1,481.48	
Grading /Drainage				\$28,251.85	
Site Grading	4,000	SF	\$3.10	\$12,400.00	
Landscape Area Drains	2	EA	\$2,000.00	\$4,000.00	Civil to provide connections
Bioinfiltration Media	148	CY	\$80.00	\$11,851.85	
Planting				\$45,296.30	
Ornamental Grass	1,080	EA	\$25.00	\$27,000.00	1 Gal. mix of grasses and perennials- must meet ECM diversity requirem
Mulch	37	CY	\$65.00	\$2,407.41	3"
Top Soil Fine Grading	44	CY	\$65.00	\$2,888.89	4"
Irrigation	4	ZN	\$2,500.00	\$10,000.00	
Irrigation Meter	1	EA	\$3,000.00	\$3,000.00	2" meter

DISCLAIMER ON THE OPINION OF PROBA-

BLE CONSTRUCTION COST

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OPINION OF PROBABLE COSTS - AREA 3 - TIER 1

AREA 3 - TIER 1				\$42,467.67	
IDEA	QUANTITY	UNIT	UNIT COST	SUBTOTAL	Comments
Invasive Species Removal				\$2,165.00	Costs for this phase could be further reduced by partnering with City of Austin or a loca equipment. Costs in this section indicate approximate cost to purchase equipment. Tie volunteers with approval by the City of Austin property owner.
Weed Wrench	3	EA	\$189.00	\$567.00	
Loppers	4	EA	\$50.00	\$200.00	
Mattock	2	EA	\$50.00	\$100.00	
Shovel - Round Point	4	EA	\$50.00	\$200.00	
Aborist Hand Saw	2	EA	\$75.00	\$150.00	
Tree Paint	10	EA	\$6.00	\$60.00	
Tree Girdler Tool	4	EA	\$222.00	\$888.00	
Seating - Informal, Wilderness				\$-	May be boulders or logs adjacent to nature trail where uses can rest. Provide infor labor by volunteers with permission from City of Austin property owners.
Boulders - Existing	NA	EA	\$-	\$-	Community members may not move existing boulders, but may take advantage of the source of the critical environmental feature setback zone.
Logs - Existing		EA	\$-	\$-	Logs may be cut into 4-feet in length or smaller and placed near the trail. No native
Log Stumps - Invasive Species Removal	30	EA	\$-	\$-	Large trees removed in Tier 2 efforts are reclaimed for stumps at outdoor classroo
Nature Trail - 2 miles				\$23,466.67	Assumes labor by volunteers with permission from City of Austin property owners.
Mulch - Wholesale	587	CY	\$40.00	\$23,466.67	First grind mulch placed 3-inches thick on a 6ft wide nature trail. Collaborate with C
Wood Chipper Rental		DAY	\$400.00	\$-	Cost may be reduced by partnering with local non-profit such as Austin Parks Found
Mulch - Invasive Species		CY	\$-	\$-	Use branches 6-inches or larger. Ensure no branches or seeds are placed into the w species removal may be used to reduce cost of retail mulch.
Mountain Bike Trail - 1 mile				\$610.00	Assumes labor by volunteers with permission from City of Austin property owners.
Shovel - Round Point	4	EA	\$50.00	\$200.00	No digging over 6-inches to level the trail.
Loppers	4	EA	\$50.00	\$200.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade mus
Aborist Hand Saw	2	EA	\$75.00	\$150.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade mus
Tree Paint	10	EA	\$6.00	\$60.00	All pruning areas must be covered in tree paint.
Pollinator Nesting Boxes				\$126.00	Assumes labor by volunteers with permission from City of Austin property owners. boxes.
Wood Boards	6	EA	\$10.00	\$60.00	2x4x8 Rough Sawn Atlantic Cedar - untreated
Fasteners	3	EA	\$10.00	\$30.00	3-inch Wood Screws
Dried bamboo	0	LS	\$-	\$-	Harvest from invasive species removal
Drill Bit	1	EA	\$12.00	\$12.00	3/8 Drill Bit
4x4 Wood Post	1	EA	\$24.00	\$24.00	4x4x8 Rough Sawn Atlantic Cedar - untreated cut to 3ft length

al non profit for use of tools rather than purchasing or renting or 1 invasive species removal to involve a group of community

ormal seating every 1/8-mile for broader access. Assumes

f them by locating a natural trail nearby so long as the area

ve trees may be cut by community members to create logs. boms and music grove.

City of Austin property owner or non-profit for reduced cost. ndation, or City of Austin property owners PARD or WPD wood chipper. Grind the mulch twice. Mulch from invasive

ust be washed in bleach between every new tree. ust be washed in bleach between every new tree.

. Quantities of materials will be sufficient for up to 6 nesting

OPINION OF PROBABLE COSTS - AREA 3 - TIER 1 (CONTINUED)

CREEK RESTORATION - TREES				\$350.00	Tier 1 Planting for Area 2 tree plantings include small 5 gallon trees sourced from non-profit source. Community members and community gardens could also partner way. Assumes labor by volunteers with permission from City of Austin property ow
Native Shade Tree	60	Lump	\$-	\$-	Tree Folks NeighborWoods Program
Native Ornamental Tree	60	EA	\$-	\$-	Tree Folks NeighborWoods Program
Mulch	3	CY	\$40.00	\$133.33	Organic, shredded hardwood mulch for trees and display planting areas. To reduce Austin Parks Foundation.
Planting Bed Soil	3	CY	\$65.00	\$216.67	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree
CREEK RESTORATION - PLANTS				\$15,750.00	Tier 1 Planting for Area 1 includes accent planting at trailheads and restoration pla sive species removal areas. Community volunteers to collaborate with City of Austi es on materials. Community members and community gardens could learn from lo propogate native plants and save costs. Assumes labor by volunteers with permise
Native Grass Live Root Bunch	50	EA	\$20.00	\$1,000.00	Bunches of live roots of native grasses.
Shrub/Cacti	30	EA	\$20.00	\$600.00	1 Gal. containers of native cactii
Native Perennials	200	EA	\$10.00	\$2,000.00	4" pot of native plants planted at trail heads
Vine	30	EA	\$15.00	\$450.00	4" pot native vine to be planted along fences or vertical elements
Mulch	130	CY	\$40.00	\$5,200.00	Organic, shredded hardwood mulch for trees and display planting areas. To reduce Austin Parks Foundation.
Planting Bed Soil	100	CY	\$65.00	\$6,500.00	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree

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Tree Folks NeighborWoods Program or a similar
er with non profits to propogate native trees for the green-
wners.

ce cost, community members may apply for a grant from

e pits.

planting with native trees, grasses and perennials at invastin and nonprofits to receive wholesale or discounted priclocal organizations such as Native Plant Society of Texas to ission from City of Austin property owners.

ce cost, community members may apply for a grant from

e pits.

OPINION OF PROBABLE COSTS - AREA 3 - TIER 2

AREA 3 - TIER 2				\$156,464.83	3
ltem	Quantity	Unit	Unit Cost	Extension	Comments
Bonded Hardwood Mulch Loop Trail				\$29,605.11	
At Orland Trailhead				\$29,605.11	1/8 mile loop
General Conditions					
Mobilization	1	LS	5%	\$1,357.65	5% of Project Subtotal
Stabilized Construction Access	30	SY	\$15.00	\$450.00	
SWPPP maintenance	3	Month	\$8.00	\$24.00	
Safety and PPE	1	LS	\$500.00	\$500.00	
Job Site Supervision		WK	\$100.00	\$-	projected job duration in weeks
Job Site Fencing and Gate		LF	\$3.80	\$-	Perimeter only
Bond		LS	0.15%	\$40.73	0.15% of Project Subtotal
Insurance		LS	2%	\$543.06	2% of Project Subtotal
Fencing Screen	200	LF	\$2.00	\$400.00	
Fence Sand Bags	20	EA	\$5.50	\$110.00	1 per 10 LF
Tree Protection Fencing					
Temporary Chainlink fence	200	LF	\$3.00	\$600.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	3	Month	\$125.00	\$375.00	
Hardscape					
Bonded Hardwood Mulch	1,980	SF	\$12.50	\$24,750.00	6ft wide hardwood mulch with binder
Grading /Drainage					
Site Grading	147	SY	\$3.10	\$454.67	Grading for accessibility
Food Forest				\$14,000.00	
Heartwood Community Garden	1	EA	\$7,000.00	\$7,000.00	
Orland Trailhead	1	EA	\$7,000.00	\$7,000.00	
Seating - Informal, Wilderness				\$16,000.00	
Boulders	40	EA	\$400.00	\$16,000.00	4x6 Limestone boulders. Refer to materials list for additional requirement
Waste Receptables at Trailheads				\$30,000.00	
Litter Receptacles	6	EA	\$2,500.00	\$15,000.00	City of Austin PARD standard
Recycling Receptacles	6	EA	\$2,500.00	\$15,000.00	City of Austin PARD standard
Community Kiosk				\$1,500.00	
Message Board	2	EA	\$1,000.00	\$1,500.00	4ftx6ft wood frame message board with roof
Weather Warning Signage				\$3,600.00	
Metal Post Sign	6	EA	\$600.00	\$3,600.00	Galvanized aluminum post set in concrete, reflective aluminum sign

184 Central Williamson Creek Greenway Vision Plan

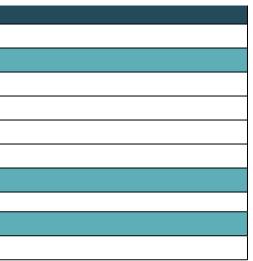
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OPINION OF PROBABLE COSTS - AREA 3 - TIER 2 (CONTINUED)

Geology Interpretive Sign				\$4,000.00	
Metal Sign	4	EA	\$1,000.00	\$4,000.00	Galvanized aluminum post set in concrete, reflective aluminum sign
Wildflower Meadow				\$71,759.72	
At Heartwood Drive Floodplain Buyouts				\$71,759.72	May be done in phases by each lot.
Soil Removal	1,069	CY	\$10.00	\$10,694.44	
Site Grading	1,069	SY	\$3.10	\$3,315.28	
Wildflower Hydroseed	115,500	SF	\$0.50	\$57,750.00	
Reclaimed Branch Berm				\$-	
Rock Berm				\$5,000.00	
9-12-inch Rock	250	CY	\$20.00	\$5,000.00	Rock berm 1'-6" height max

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OPINION OF PROBABLE COSTS - AREA 3 - TIER 3

AREA 3 - TIER 3				\$738,761.85	
Bike Lanes				\$74,800.00	
Ramble Lane				\$56,666.67	
Striping	2,500	LF	\$20.00	\$50,000.00	City of Austin standard
Flexible Delineator	167	EA	\$40.00	\$6,666.67	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
Meadow Creek Circle Drive				\$18,133.33	
Striping	800	LF	\$20.00	\$16,000.00	City of Austin standard
Flexible Delineator	53	EA	\$40.00	\$2,133.33	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
High Water Route				\$50,000.00	
South 1st Street					
Thermoplastic Pavement Markings	2,500	LF	\$20.00	\$50,000.00	High traffic pavement markings for wayfinding to indicate high water rou
Boardwalk				\$120,000.00	
Orland Trailhead					
Wood Boardwalk with Steel Structure	400	LF	\$300.00	\$120,000.00	Boardwalk with 42-inch guardrails to create ADA route to nature trails a
Green Infrastructure				\$613,961.85	
Rain Garden on Heartwood Drive Buyouts				\$94,637.87	Series of raingardens intercepting stormwater from MeadowCreek Drive
General Conditions				\$51,331.76	Section to be used when Asakura Robinson is the Prime.
Mobilization		LS	5%	\$13,082.35	5% of Project Subtotal
Stabilized Construction Access	300	SY	\$15.00	\$4,500.00	
SWPPP maintenance	8	Month	\$8.00	\$64.00	
Safety and PPE	8	LS	\$500.00	\$4,000.00	
Job Site Supervision	96	WK	\$100.00	\$9,600.00	projected job duration in weeks
Job Site Fencing and Gate	3,000	LF	\$3.80	\$11,400.00	Perimeter only
Bond		LS	0.15%	\$392.47	0.15% of Project Subtotal
Insurance		LS	2%	\$5,232.94	2% of Project Subtotal
Fencing Screen	1,200	LF	\$2.00	\$2,400.00	
Fence Sand Bags	120	EA	\$5.50	\$660.00	1 per 10 LF
Tree Protection Fencing				\$4,000.00	
Temporary Chainlink fence	1,000	LF	\$3.00	\$3,000.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	8	Month	\$125.00	\$1,000.00	
Demolition				\$1,100.56	
Tree Removal	2	EA	\$10.00	\$20.00	Invasive Species only
Clearing and grubbing of vegetation	1,500	SF	\$0.35	\$525.00	
Soil Removal	56	CY	\$10.00	\$555.56	

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OPINION OF PROBABLE COSTS - AREA 3 - TIER 3 (CONTINUED)

Grading /Drainage				\$13,094.44	
Site Grading	1,500	SF	\$3.10	\$4,650.00	
Landscape Area Drains	2	EA	\$2,000.00	\$4,000.00	Civil to provide connections
Bioinfiltration Media	56	CY	\$80.00	\$4,444.44	
Planting				\$25,111.11	
Ornamental Grass	405	EA	\$25.00	\$10,125.00	1 Gal. mix of grasses and perennials- must meet ECM diversity requireme
Mulch	14	CY	\$65.00	\$902.78	3"
Top Soil Fine Grading	17	CY	\$65.00	\$1,083.33	4"
Irrigation	4	ZN	\$2,500.00	\$10,000.00	
Irrigation Meter	1	EA	\$3,000.00	\$3,000.00	2" meter
Stormwater Quality Feature on Englewood				\$519,323.98	Large stormwater quality feature intercepting stormwater outfall that curr
General Conditions				\$51,331.76	Section to be used when Asakura Robinson is the Prime.
Mobilization		LS	5%	\$13,082.35	5% of Project Subtotal
Stabilized Construction Access	300	SY	\$15.00	\$4,500.00	
SWPPP maintenance	8	Month	\$8.00	\$64.00	
Safety and PPE	8	LS	\$500.00	\$4,000.00	
Job Site Supervision	96	WK	\$100.00	\$9,600.00	projected job duration in weeks
Job Site Fencing and Gate	3,000	LF	\$3.80	\$11,400.00	Perimeter only
Bond		LS	0.15%	\$392.47	0.15% of Project Subtotal
Insurance		LS	2%	\$5,232.94	2% of Project Subtotal
Fencing Screen	1,200	LF	\$2.00	\$2,400.00	
Fence Sand Bags	120	EA	\$5.50	\$660.00	1 per 10 LF
Tree Protection Fencing				\$4,000.00	
Temporary Chainlink fence	1,000	LF	\$3.00	\$3,000.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	8	Month	\$125.00	\$1,000.00	
Demolition				\$22,881.11	
Storm Inlet Removal	1	EA	\$500.00	\$500.00	
Small Drain/Inlet Removal	1	EA	\$250.00	\$250.00	
Manhole Removal	1	EA	\$500.00	\$500.00	
Tree Removal	2	EA	\$10.00	\$20.00	Invasive Species only
Clearing and grubbing of vegetation	30,000	SF	\$0.35	\$10,500.00	
Soil Removal	1,111	CY	\$10.00	\$11,111.11	
Grading /Drainage				\$185,888.89	
Site Grading	30,000	SF	\$3.10	\$93,000.00	

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OPINION OF PROBABLE COSTS - AREA 3 - TIER 3 (CONTINUED)

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Landscape Area Drains	2	EA	\$2,000.00	\$4,000.00	Civil to provide connections
Bioinfiltration Media	1,111	CY	\$80.00	\$88,888.89	
Planting				\$255,222.22	
Ornamental Grass	8,100	EA	\$25.00	\$202,500.00	1 Gal. mix of grasses and perennials- must meet ECM diversity requirem
Mulch	278	CY	\$65.00	\$18,055.56	3"
Top Soil Fine Grading	333	CY	\$65.00	\$21,666.67	4"
Irrigation	4	ZN	\$2,500.00	\$10,000.00	
Irrigation Meter	1	EA	\$3,000.00	\$3,000.00	2" meter

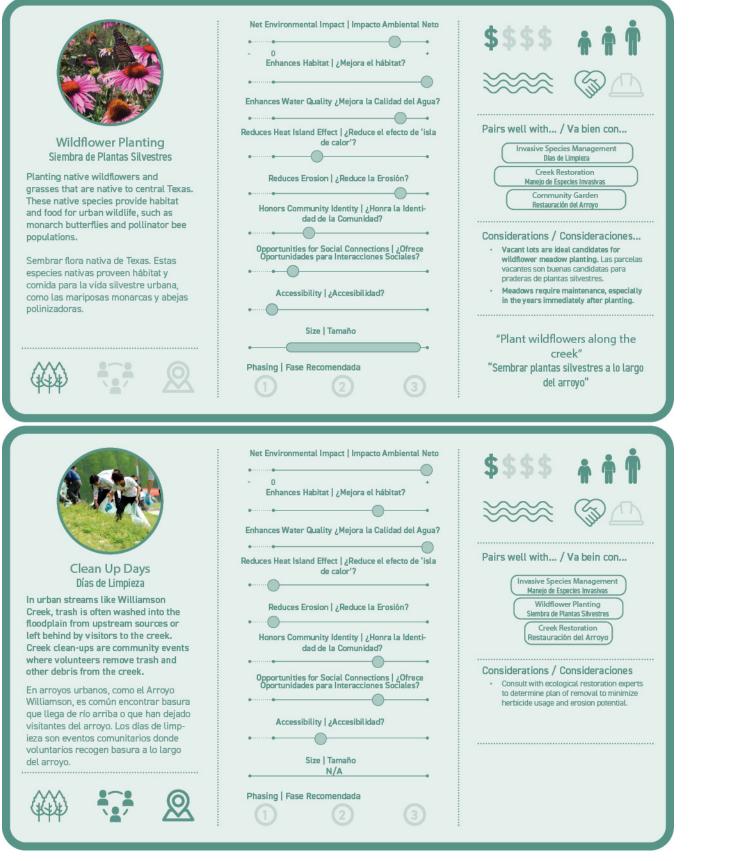
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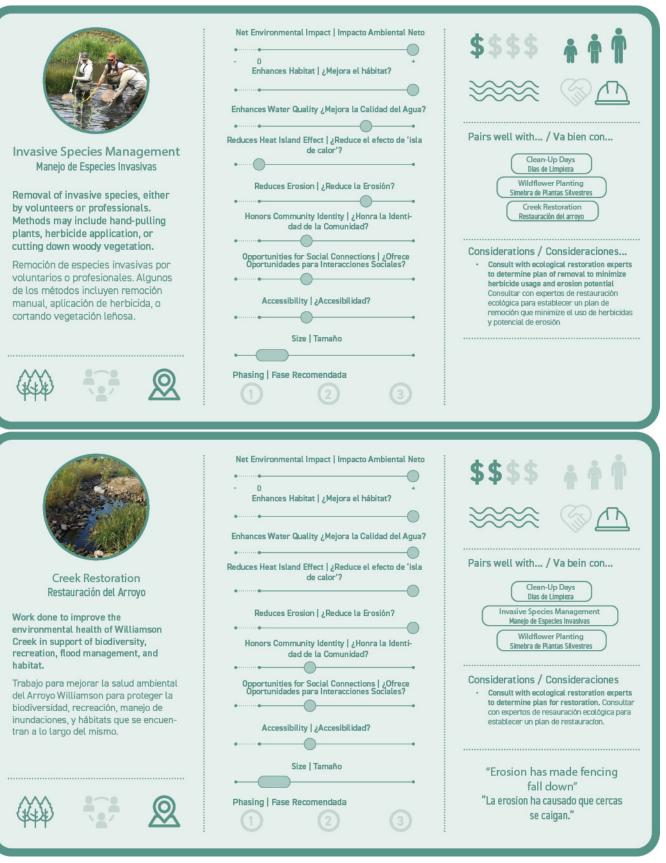
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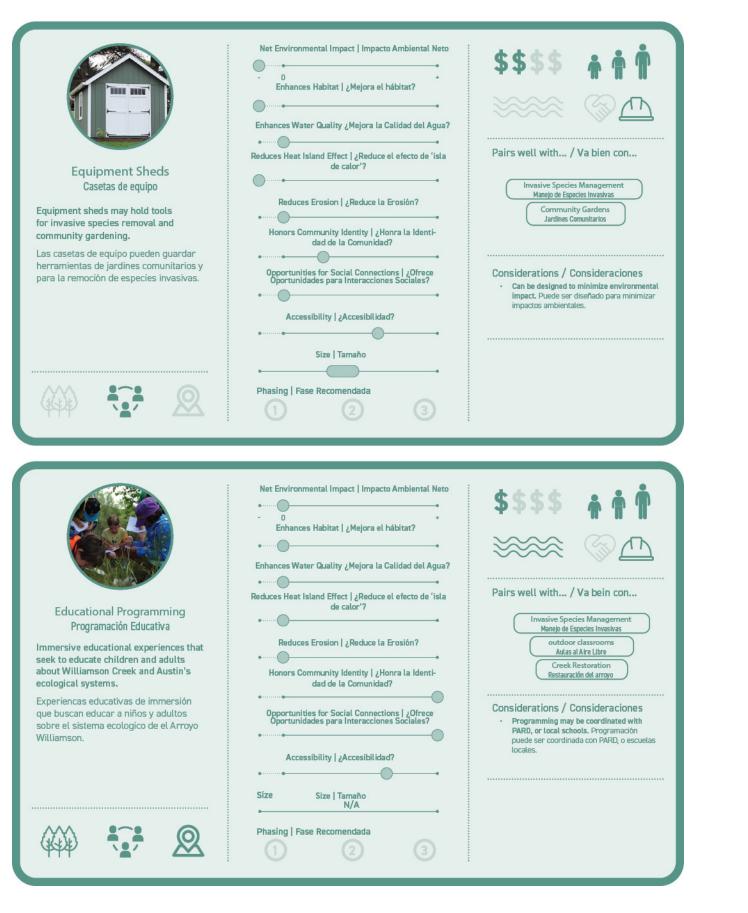
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Appendix D ALL TOOLKIT ITEMS

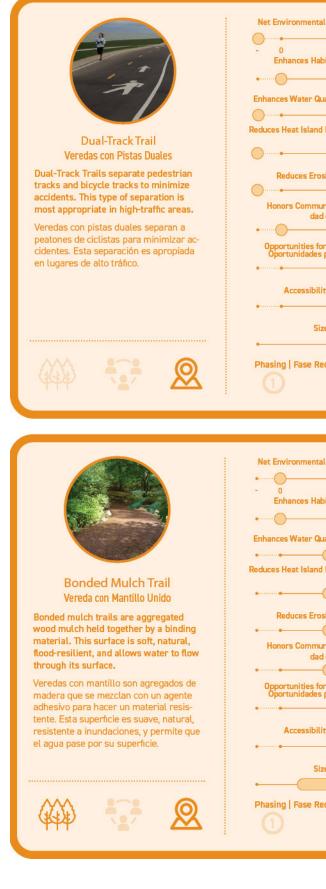




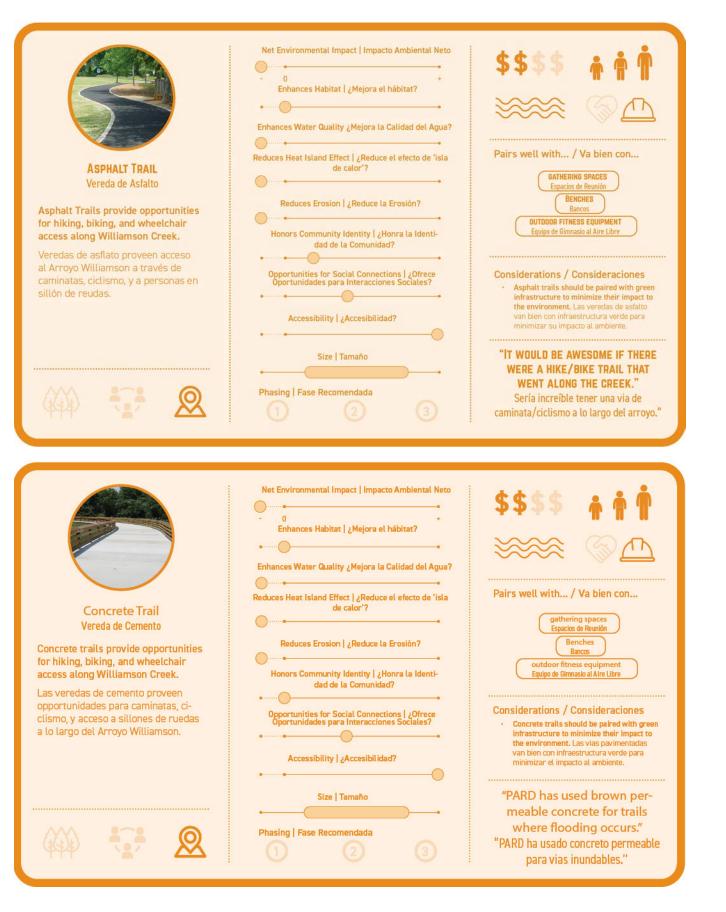




<image/> <text><text><text><text></text></text></text></text>	Net Environmental Impact Impacto Ambiental Neto -	\$\$\$\$\$ \$\$\$\$\$ \$\$\$\$\$ \$\$\$\$\$ \$\$\$\$\$\$ \$\$\$\$\$\$ \$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$ \$	
	Size Tamaño Phasing Fase Recomendada Phasing Fase Recomendada Net Environmental Impact Impacto Ambiental Neto Description Control of the second	\$\$\$\$ † †	
Pollinator Nesting Boxes Cajas de Nidos para Polinizadores Many nesting bee species in build nests in aboveground cavities or tunnels in	Enhances Water Quality ¿Mejora la Calidad del Agua? Meduces Heat Island Effect ¿Reduce el efecto de 'isla de calor'? Meduces Erosion ¿Reduce la Erosión?	Pairs well with / Va bein con Wildflower Planting Siembra de Plantas Silvestres	
wood or plant stems. Pollinator Nesting Boxes provide nesting resources to bees through the use of hollow bamboo rods or drilled holes in wood. Muchas especies de abejas crean sus colonias en nidos pre-construidos sobre la tierra, o en tuneles de madera o tallos de plantas. Las Cajas de Nidos	 Honors Community Identity ¿Honra la Identidad de la Comunidad? Opportunities for Social Connections ¿Ofrece Oportunidades para Interacciones Sociales? Accessibility ¿Accesibilidad? 	Considerations / Consideraciones These boxes can be hand-made by the community or bought. Estos cajones pueden ser creados a mano por la comunidad o comprados. "Add Pollinator Nesting Boxes to	
para Polinizadores proveen nidos para abejas usando bambú hueco o tubos de madera huecos.	Accessibility 1 2 Accessibilitidad? N/A Size Tamaño Phasing Fase Recomendada 1 2 3	help Native Bees. Potentially Sponsored by a local business or individuals" Añadir cajas de nidos para Polinizadores para ayudar a las abejas nativas. Potencial- mente auspiciadas por comercios locales o individuos."	



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a mpace proposed Ambiental Neto	\$\$\$\$ 🛦 🛉 🖗 🛛
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bitat ¿Mejora el hábitat?	
•	
uality ¿Mejora la Calidad del Agua?	
Effect ¿Reduce el efecto de 'isla	Pairs well with / Va bien con
de calor'?	gathering spaces
	Espacios de Reunión
sion ¿Reduce la Erosión?	Benches Bancos
	outdoor fitness equipment Equipo de Gimnasio al Aire Libre
nity Identity ¿Honra la Identi- I de la Comunidad?	
	Considerations
r Social Connections ¿Ofrece para Interacciones Sociales?	Dual track trails should be paired with
para interacciones Sociales?	green infrastructure to minimize their impact to the environment. Veredas con
	pistas duales van bien con infraestructura
ty ¿Accesibilidad?	verde para minimizar su impacto al ambiente.
	· · · · · · · · · · · · · · · · · · ·
ze Tamaño	"It would be awesome if there
	were a hike/bike trail that
ecomendada	went along the creek."
	Sería increíble tener una via de
	caminata/ciclismo a lo largo del arroyo."
2 3	caminata/ciclismo a lo largo del arroyo."
2 3	caminata/ciclismo a lo largo del arroyo."
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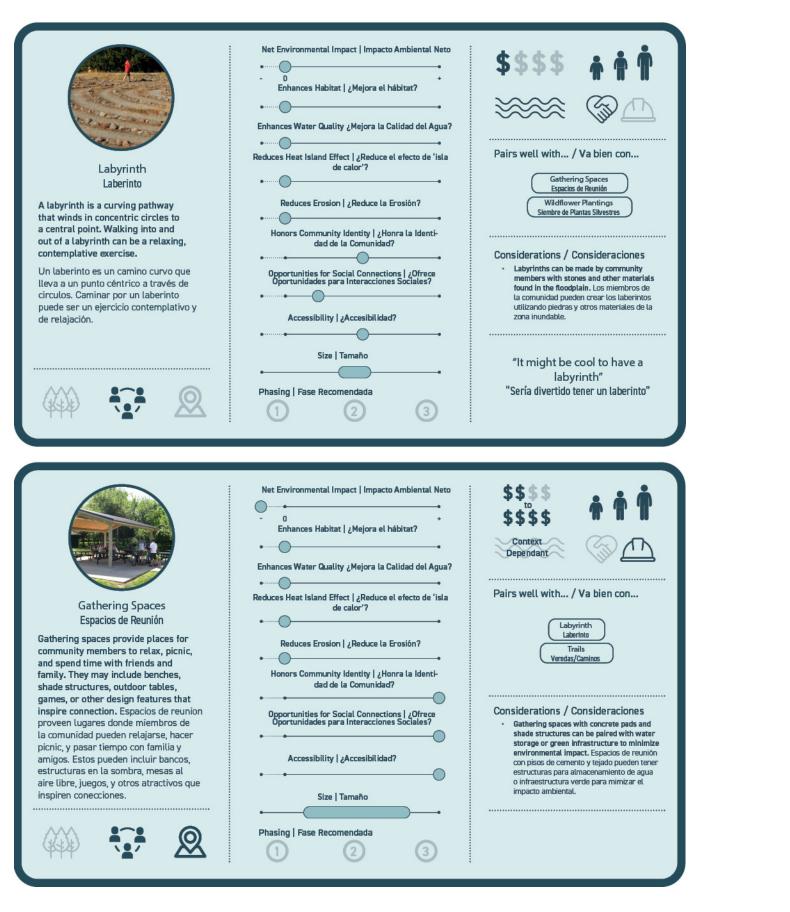
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nity Identity ¿Honra la Identi- I de la Comunidad?	outdoor fitness equipment Equipo de Gimnasio al Aire Libre
r Social Connections ¿Ofrece para Interacciones Sociales?	Considerations / Consideraciones Natural trails may be eroded during flood
	events. Las veredas naturales pueden ser erosionadas durante periodos de inundaciones.
ty ¿Accesibilidad?	
ze Tamaño	"Connect to patchwork lots via the Richmond trib. On these shady lots, we could do a
•	'figure 8' mulch trail, focus on biodiversity, install benches." "Conectar propledades a lo largo
ecomendada	del tributario Richmond. En estos espacios con sombra se podría hacer una 'figura 8' con manilla, enfocarse en la
	biodiversidad, e instalar bancos."
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sality ¿Mejora la Calidad del Agua? Effect ¿Reduce el efecto de 'isla de calor'? sion ¿Reduce la Erosión? nity Identity ¿Honra la Identi- I de la Comunidad?	Considerations / Consideraciones Parking should be paired with green infrastructure to capture stormwater runoff and prevent it from washing into the creek. Estacionamientos van a la par con infraestructura verde para capturar escorrentias y prevenir que las mismas lleguen al arroyo.
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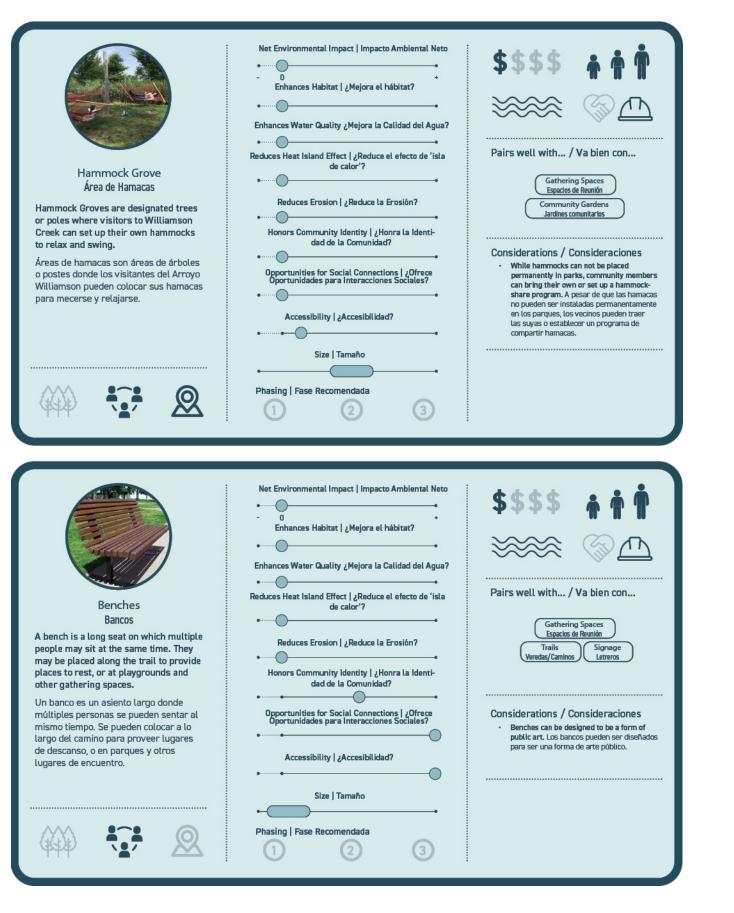


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nity Identity ¿Honra la Identi- I de la Comunidad?	Considerations / Consideraciones
r Social Connections ¿Ofrece para Interacciones Sociales?	 Low water crossings can act as dams during flood events, causing build-up of trash and debris. Cruces bajos de agua pueden convertinse en diques durante eventos de inundaciones, causando
ity ¿Accesibilidad?	bloqueos con basura y escombros.
ze Tamaño	"Need bridges to make the pathway easily traversable" "Se necesitan puentes para que la via se
2 3	pueda atravesar fácilmente."
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uality ¿Mejora la Calidad del Agua?	
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sion ¿Reduce la Erosión?	Entrada a la vereda/camino
nity Identity ¿Honra la Identi- I de la Comunidad?	Considerations / Consideraciones Can be a general sign or as complex as an
r Social Connections ¿Ofrece para Interacciones Sociales?	updated series of warnings. Puede ser un letrero o una serie de advertencias.
ty ¿Accesibilidad?	"Need a warning system
ze Tamaño	"Need a warning system for people in the greenway when storms are expected."
comendada	"Se necesita una sistema de advertencia para la gente que este en la cinta verde cuando se esperan tormentas."



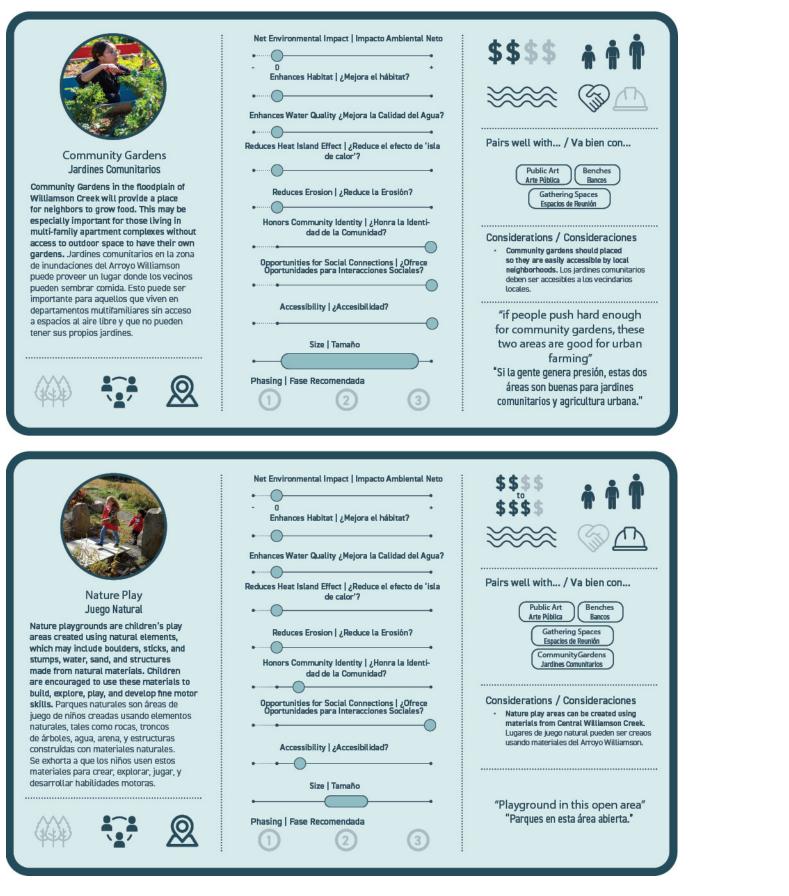


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Inity Identity ¿Honra la Identi- d de la Comunidad? •••••••••••••••••••••••••••••••••••	Considerations / Consideraciones • Music groves can be made in collaboration with the Red Leaf School of Music or other educational institution. Los espacios musicales pueden haceres en colaboración con la Escuela de Musica Red Leaf u otra institución educativa.
ity ¿Accesibilidad?	
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r Social Connections ¿Ofrece para Interacciones Sociales?	Considerations / Consideraciones Community message boards should be placed along trails in high-traffic areas. Los
ty ¿Accesibilidad?	tableros comunitarios de mensajes deben ser colocados a lo largo del camino en áreas de mucho tráfico.
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anity Identity ¿Honra la Identi- 1 de la Comunidad?	Educational Programming Programación Educativa
or Social Connections ¿Ofrece para Interacciones Sociales?	Considerations / Consideraciones Outdoor classrooms can be created in collaboration with local schools or other educational institutions. Aulas at aire
ity ¿Accesibilidad?	libre puden ser creadas en colaboración con escuelas locales u otras instituciones educativas.
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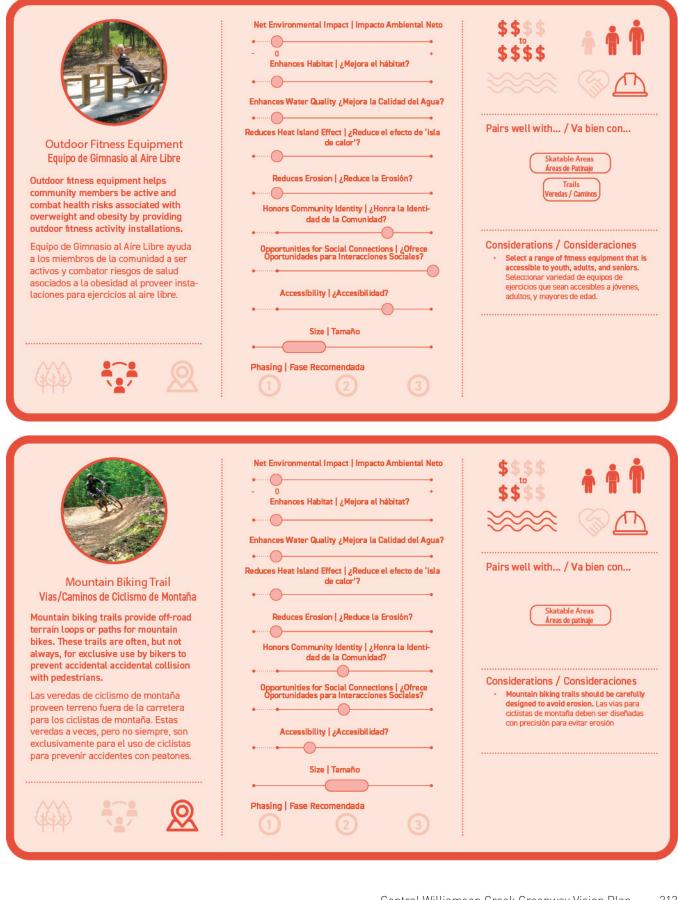




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nity Identity ¿Honra la Identi- I de la Comunidad?	
r Social Connections ¿Ofrece para Interacciones Sociales?	Considerations / Consideraciones Public showers should be paired with green infrastructure to minimize their impact to
ty ¿Accesibilidad?	the environment. Duchas públicas pueden ser desarrolladas con infraestructura verde para minimzar el impacto al ambiente.
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r Social Connections ¿Ofrece para Interacciones Sociales?	Considerations / Consideraciones · Lockers should be paired with green infrastructure to minimize their impact to
ty ¿Accesibilidad?	the environment. Casilleros pueden ser complementados con infraestructura verde
	para minimzar impactos al ambiente.
ze Tamaño	para minimzar impactos al ambiente.
0	para minimzar impactos al ambiente.



NOTE: SOME ITEMS IN THIS SECTION WERE NOT INCLUDED IN THE VISION PLAN BECAUSE THEY WERE NOT liked by the community. Refer to the idea card scores on page 80 for more information.







Appendix E ALL COMMUNITY ENGAGEMENT + COMMUNICATIONS

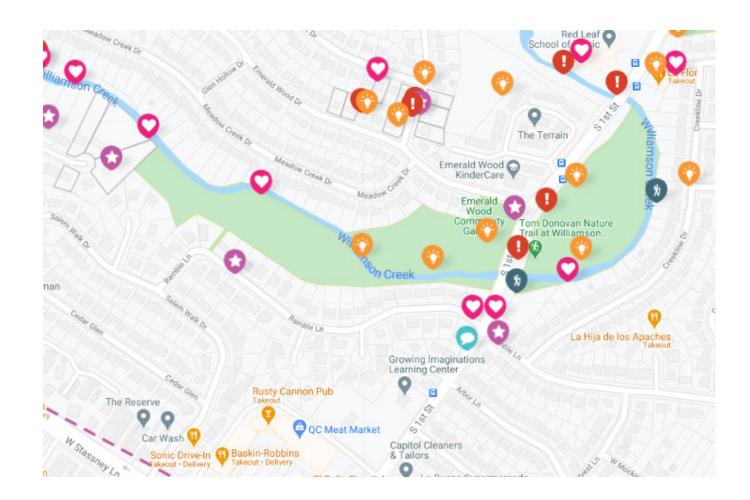
The following pages detail additional community engagement outlets and activities that were available for the public to participate in throughout the course of the project.

These include:

- 1: Audio Stories and Creek Animation
- 2: Creek Packs
- 3: Flat Stanley Activity
- 4: Virtual Creek Stomps
- 5: Community Photos from the iNaturalist App
- 6: Virtual Community Picnics and Celebrations
- 7: Community Powered Workshop Newsletter
- 8: Central Williamson Creek Greenway Facebook Page
- 9: Conversation Toolkits
- 10: Creek Stomp Journals

Social Pinpoint - Virtual Map

Creek Idea Cards.



The interactive map on Social Pinpoint provided the opportunity to geographically share ideas, activities, and unique places along the Greenway. The map helped to shape the

Social Pinpoint - Creek Idea Cards

The Creek Idea Cards were based on ideas shared by the Williamson Creek Community. The idea cards were posted to Social Pinpoint, a community engagement platform, and categorized hierarchically through public vote as a way to prioritize which ideas would be included in the Vision Plan.



Social Pinpoint - Public Comment

Participants provided feedback on the Vision Plan drafts through Social Pinpoint, a virtual engagement platform.



Comment on the Project Overview & Vision Plan Chapters in the forum below!

You can download the document from the Vision Plan section above. There is a 500 character limit per comment but feel free to leave multiple comments to share your feedback. 1. What other context for the project may have been missed? 2. Do you see anything that doesn't work, or that you'd like to see included? 3. Anything else you'd like to provide feedback on?

Storytelling

Storytelling activities were employed to help ensure that the Vision Plan represented the full spectrum of experiences and hopes held by those who live and explore along the greenway, including audio stories to preserve and share personal accounts about Central Williamson Creek, the green spaces that surround it, and what it means to residents. A series of audio stories were produced as well as an animation by <u>Kiln Pictures</u> in partnership with community members of Central Williamson Creek Greenway, <u>Community Powered</u> <u>Workshop</u>, and <u>The Nature Conservancy</u> and illustrates how the Vision Planning process centered community voices.

Contributors:

- Alfred Mcleod
- Allison Mclean
- Barbara Mead
- Darin Banduch
- Dave Bradshaw
- Genoi Strola
- Kate Mason-Murphy
- Kelly Davis-Burns
- Mark Branson
- Mary Olmstead
- Melody Plate
- Nicole Sanford
- Steve Prather
- Tom Paolini
- Ryan and Haley Flener
- Russell Julian



"I've always enjoyed birds. My father was a birder; my grandmother, she knew her birds."



"It's like having a little park in the city"



"We would dog paddle in the rapids when we had a good rain"



"After they put in the sewage system, our creek completely died"



"Improving any park is just a matter of involving your neighbors"

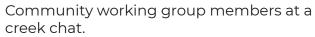


"I couldn't live in any other place"

Creek Chats

The weekly Creek Chats were provided in two formats - through Zoom and at a sociallydistanced outdoor pop-up space. Members from the Community Working Group, Community Powered Workshop and Asakura Robinson were available for in-depth community conversations about questions, ideas and ways to get involved.







CWCG Vision Plan Yard Sign

Creek Packs

future of the Greenway.



Creek Packs were distributed at Creek Chats.

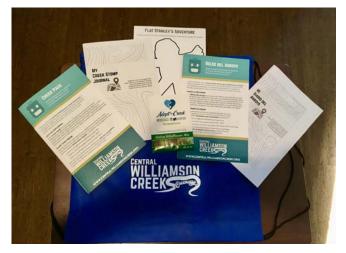


Toolkit item activities at the Creek Chats



Creek Packs were distributed at Creek Chats.

Creek Packs were available at Creek Chat pop-ups or upon request and included printed engagement activities and tools available in English and Spanish as a guide to shaping the



Creek Pack



Flat Stanley is an educational project that uses paper cut-outs to tell stories about people and places. Participants created their story of Flat Stanley's future in the Creek by taking photos of them in different scenes to document their experiences along the Greenway.

GOAL: Flat Stanley is an educational project that uses paper cut-outs to tell stories about people and places. Create the story of Flat Stanley's future in the Creek by taking photos of them in different scenes along the Creek to describe their adventures in different places. Pair Flat Stanley with found or created objects and materials to indicate emotions or experiences.

MATERIALS NEEDED

Flat Stanley – you can find templates available online to print at home or create your own version of Flat Stanley or request a mailed hard copy by emailing info@ centralwilliamsoncreek.org

- Found objects
- Materials to indicate emotions or experiences
- Camera to take photos

ACTIVITY

- 1: Think about the spaces you visit along the Creek today.
- 2: Create the story of Flat Stanley's future experiences in the Creek.
- 3: Using Flat Stanley plus any found or created objects/materials, create 3 scenes of creek experiences. Consider using other elements to indicate emotions or experiences, (e.g. sunshine indicates likes, rain clouds indicate dislikes.)
- 4: Describe Stanley's adventure. Explain the

meanings of the objects/materials you found or created and why you chose them. Describe the scene and why you chose to take the photo there.

5: Share your 3 scenes through photos and text below or on the Central Williamson Creek Greenway Facebook page.













Virtual Creek Stomps

Community members filmed and narrated their physical experiences of the Creek as Virtual Creek Stomps to document creek conditions and inspire others to explore the creek.



"...we even had a gray fox that came up one summer that we fed every evening"



Armadillo skeleton captured by Jessica



Creek captured by Landscape Architecture team and City of Austin staff



Trash and debris along the creek captured by Jessica



Wetland plants captured by Landscape Architecture team and City of Austin staff



Railroad bridge captured by Greg and Anna



Waterfall captured by Watershed Protection Department





Tunnels and skating area captured by Greg and Anna

iNaturalist Community Photos

Participants shared their Greenway experience by documenting plants, animals, nature, and places through the iNaturalist, a nature app that helps to identify plants and animals. These observations were geolocated and provided valuable information about the spatial distribution and ecology of plant and animal species throughout the Greenway.



Map of iNaturalist sightings in the Central Williamson Creek Greenway



Stereum ostrea False Turkey-tail



Hyles Lineata White-lined Sphinx



Coccinellidae Lady Beetles



Chrysomela texana Red-headed Willow Leaf Beetle



Gaillardia pulchella Indian Blanket





Spinus psaltria Lesser Goldfinch

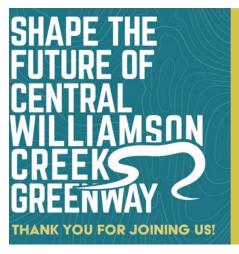




Tecoma stans Yellow Trumpetflower

Virtual Community Picnics and Celebrations

Community-wide, family-friendly virtual picnics hosted on Zoom included interactive sessions led by members of the Community Working Group to engage their neighbors in the Vision Planning process by demonstrating activities and sharing updates. The "Green Ribon Celebration" in December 2020 celebrated the release of the plan to the public for comment.



COMMUNIT PICNIC AGENDA Welcome & Introd

VIRTUAL

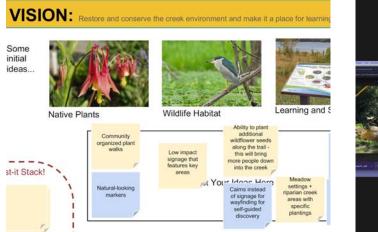
Description of Pro Site Inventory & Ai Break Out Mappin Wrap up

Para la traducción a este número de teléi código de acceso: 74

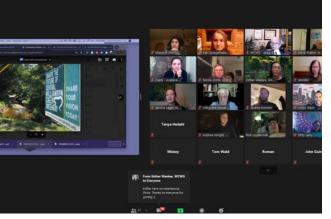
Community Picnic



Green Ribbon Celebration



Community Picnic

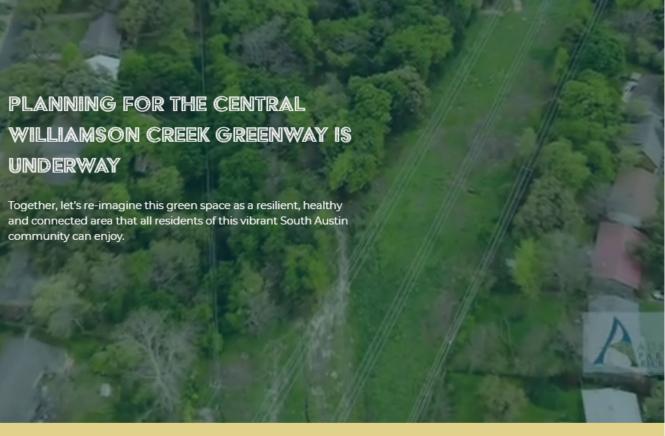


Green Ribbon Celebration

Website

The website <u>www.centralwilliamsoncreek.net</u> shared the history and background of the project, community stories, engagement activities and information on the project area, process, partners and documents, including drafts of the Vision Plan. The website will continue to serve as a transparent method of sharing ways to get involved in the implementation of the Vision Plan.







HISTORY & BACKGROUND YOUR GREENWAY, YOUR STORIES **CREATING A VISION PLAN**



Central Williamson Creek Greenway Vision Plan 231

English >

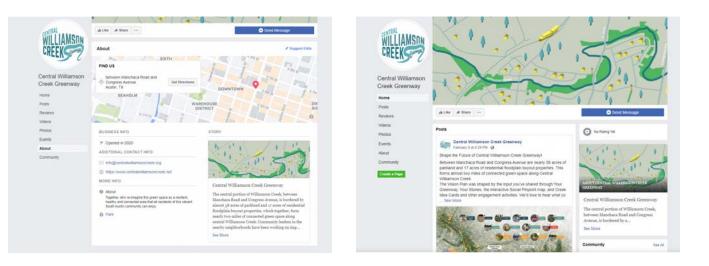
Newsletter

The newsletter served as a primary communication outlet to share ways to get involved, events, Vision Plan updates, blog posts and community stories.

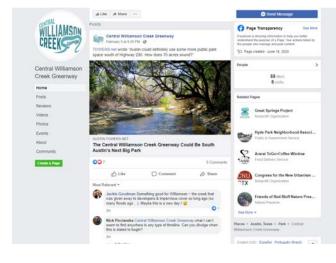


Facebook

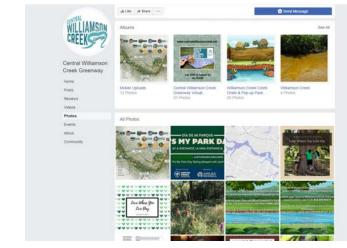
Creek Greenway Facebook page.







Community events and updates to the Vision Plan were posted to the Central Williamson



Conversation Toolkits

The Toolkit was created for anyone wanting to facilitate a conversation with their neighbors to re-imagine the Central Williamson Creek Greenway as a community space, capturing opinions, perceptions, and stories. The prompts provided helped individuals think through the future of the Greenway or host meaningful conversations with family and friends.



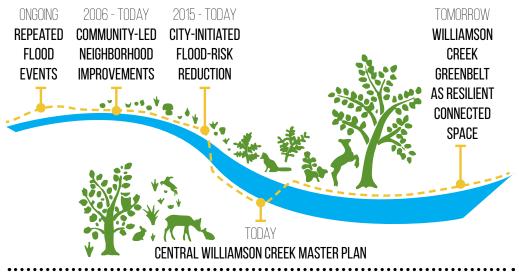
COMMUNITY CONVERSATION TOOLKIT

WHY ARE WE DOING THIS?

Floodplains in Texas cities are expanding as storms become more intense and more frequent with climate change. As a result, urban communities increasingly face the dual challenge of protecting human lives and sustainably managing flood-prone urban landscapes.

Williamson Creek in South Austin has been continually ravaged by floods over the last two decades. As a result, the City of Austin and U.S. Army Corps of Engineers partnered on a buyout process beginning in 2015. With 17.8 acres of flood buyout properties, combined with 58.3 acres of underutilized park-land, the central portion of Williamson Creek represents an opportunity to re-imagine this floodplain as a resilient collective and connected space in partnership with an ethnically and socioeconomically diverse community.

WHERE HAVE WE BEEN & WHERE ARE WE GOING?



Williamson Creek Greenway

a community-led vision for a resilient and connected urban floodplain

.....



OBJECTIVE:

This toolkit is made for anyone wanting to participate in a conversation about Central Williamson Creek Greenway and how it could be re-imagined as a community space in the future, sharing opinions, perceptions, and stories.

HOW TO:

The following prompts are intended for you or to help facilitate a conversation with family, friends, and neighbors. Please record your conversation as well as any important or recurring points. You may cover all four themes during your conversation or focus on a specific topic, it's up to you!

COMMUNITY CONVERSATION THEMES:

THEME 1: Current Creek Perceptions THEME 2: Creek Likes **THEME 3: Creek Challenges THEME 4: Implementing Our Vision**

MATERIALS INCLUDED IN THIS TOOLKIT:

- Guide for Creek Conversations
- Neighborhood & Creek Map

SHARE YOUR CONVERSATION TOOLKIT RESULTS:

- Email a photo or scan to info@ centralwilliamsoncreek.org
- Mail to Community Powered Workshop, 1023 Springdale Road, #13F, 78721

COMMUNITY CONVERSATION TOOLKIT | 2

.....



The information collected through this process will be aggregated to form an overall vision for Central Williamson Creek Greenway. Your personal information will not be shared outside of the project group and you will not be contacted other than to keep you plugged into the process. If you have any questions or concerns please feel free to reach out to us at info@centralwilliamsoncreek.org.

CONVERSATION FACILITATOR:

Name: Phone/Email: Address:

CONVERSATION PARTICIPANTS:

Name

.....

Williamson Creek Greenway

Future **Phone/Email Address** Volunteer

COMMUNITY CONVERSATION TOOLKIT | 3



1 CURRENT CREEK PERCEPTIONS

Share experiences had in Central Williamson Creek Greenway and the surrounding area and how you currently feel about the creek.

GUIDING QUESTIONS:

- If you have spent time in Central Williamson Creek Greenway, what brought you there and how did you get there (actual entry point)? (e.g. walking, walking the dog, meeting with friends on a path near my street, etc.)
- If no, is there a particular reason why you don't go there?
- Describe the creek in one word.

MAP IT:

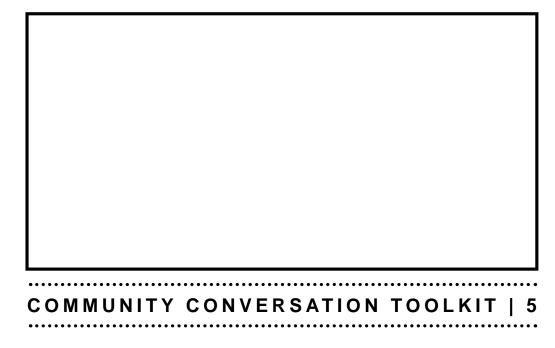
- Using the map of the area, mark the spots you have visited before using a circle
- Do you have any stories you are willing to share about being in that space?
- If you have not visited, are there any stories you might have heard about specific spaces of the creek?



1 NOTES CREEK PERCEPTIONS

How do you spend time in Central Williamson Creek Greenway?

What keeps you away from Central Williamson Creek Greenway?



COMMUNITY CONVERSATION TOOLKIT | 4

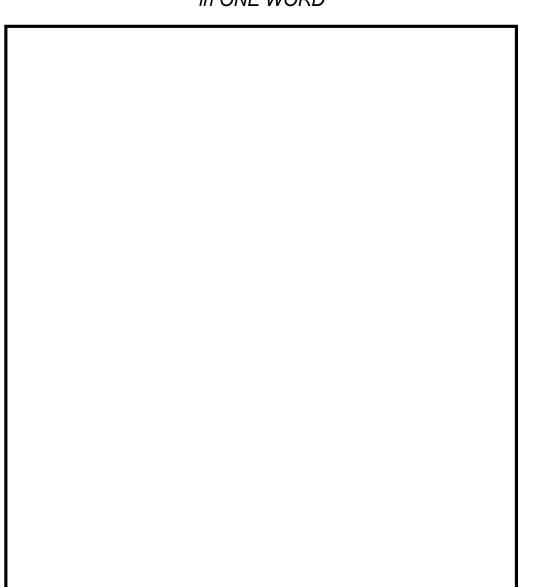
Central Williamson Creek Greenway Vision Plan

238



1 NOTES CREEK PERCEPTIONS

Describe Central Williamson Creek Greenway in ONE WORD



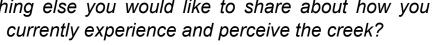
COMMUNITY CONVERSATION TOOLKIT | 6



Stories about Central Williamson Creek Greenway

Anything else you would like to share about how you







2 CREEK LIKES

Share details about things and spaces you like along Central Williamson Creek Greenway.

GUIDING QUESTIONS:

- What 3 words describe a place that makes you feel comfortable and a sense of belonging.
- Where along Central Williamson Creek Greenway might you be able to feel that?
- If not, how do you think these feelings could be achieved in Central Williamson Creek Greenway?

MAP IT:

• Using the map of the area, ask people to mark the spots they are most likely to feel comfortable and a sense of belonging in Central Williamson Creek Greenway with a triangle.



2 NOTES

Places that make you feel comfortable and belonging in 3 words

COMMUNITY CONVERSATION TOOLKIT | 8

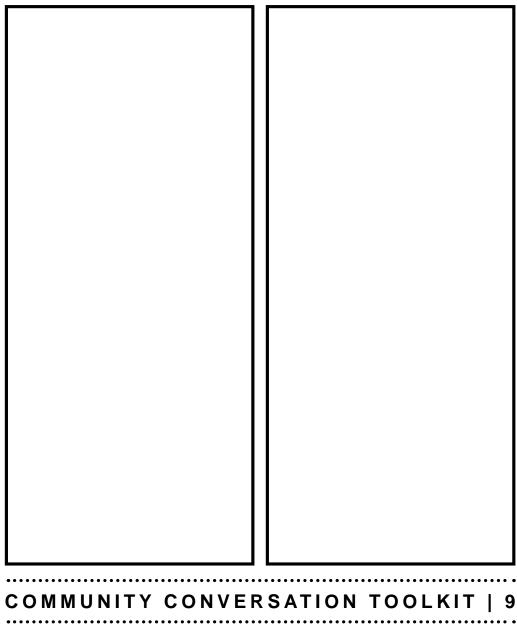
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Williamson Creek Greenway

a community-led vision for a resilient and connected urban floodplain

CREEK LIKES

Spaces in Central Williamson Creek Greenway that make you feel this way

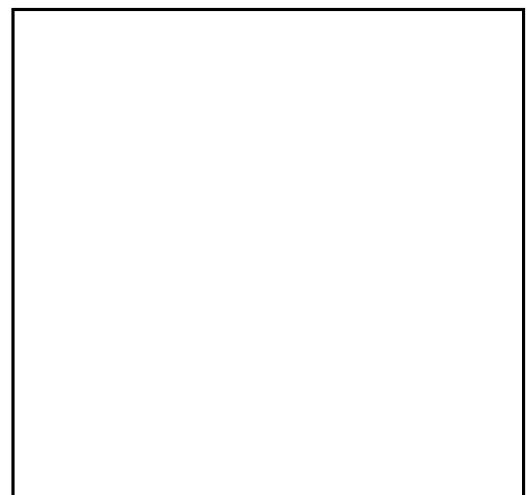




2 NOTES

CREEK LIKES

Ways Central Williamson Creek Greenway could provide a greater sense of comfort and belonging for the neighborhood

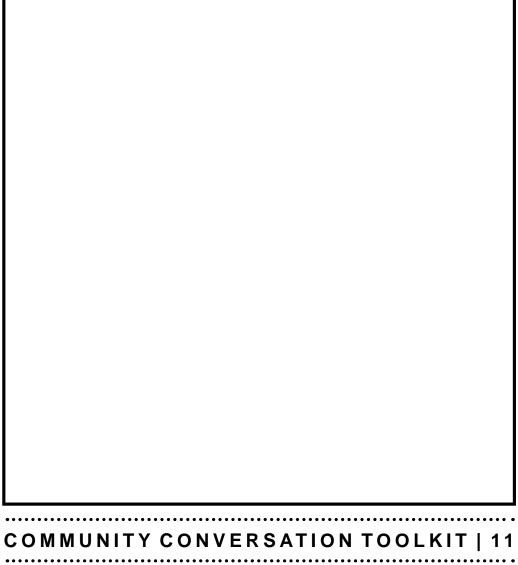


COMMUNITY CONVERSATION TOOLKIT | 10



Anything else you would like to share about what you like about the creek?

Central Williamson Creek Greenway Vision Plan 244





3 CREEK CHALLENGES

Share details about what you see as challenges along Central Williamson Creek Greenway.

GUIDING QUESTIONS:

- What challenges do you have in experiencing Central Williamson Creek Greenway as a neighborhood amenity?
- Are these concerns and challenges shared by other neighbors or are there others you have heard?
- How do you think the challenges you have identified could be overcome?

MAP IT:

• Using the map, mark areas that pose

significant challenges with a square.

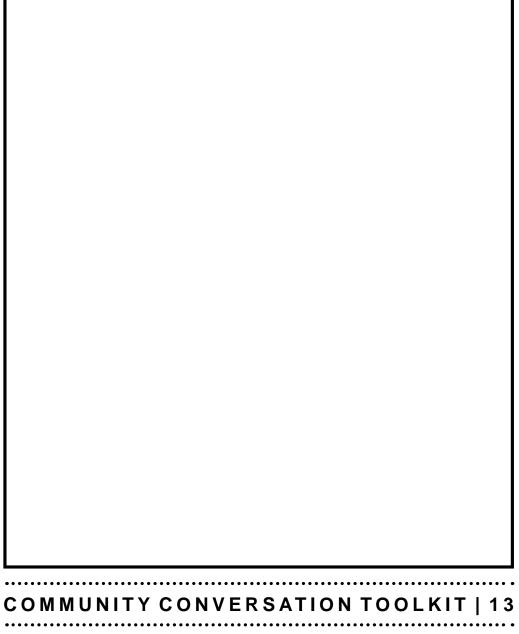


3 NOTES CREEK CHALLENGES

Concerns and Challenges seeing or experiencing Central Williamson Creek Greenway as a neighborhood amenity

COMMUNITY CONVERSATION TOOLKIT | 12

Williamson Creek Greenway





3 NOTES CREEK CHALLENGES

Ways these challenges or concerns could be overcome

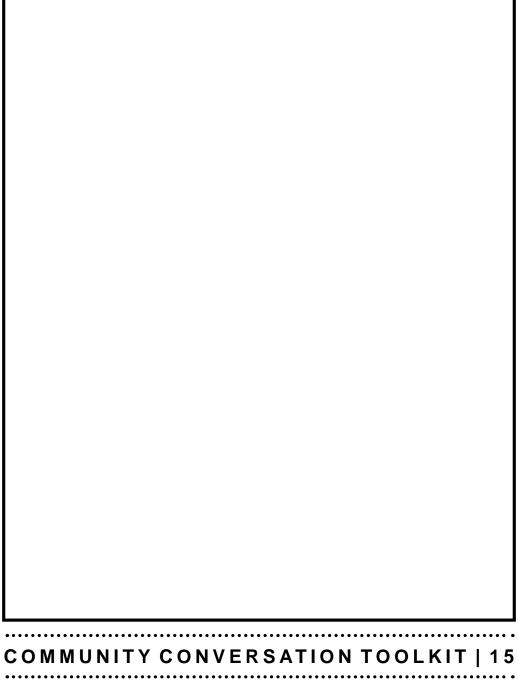


Anything else anyone would like to share about creek concerns or challenges?

COMMUNITY CONVERSATION TOOLKIT | 14

.....

Williamson Creek Greenway





IMPLEMENTING OUR VISION

Share information about what you would like to see in Central Williamson Creek Greenway.

GUIDING QUESTIONS:

- What type of activities would you like to engage in or see other people engaging in along Central Williamson Creek Greenway? Are there specific locations you have in mind?
- If stewardship means caring for Central Williamson Creek Greenway, how do you see you and your neighbors as stewards?
- How do you think the neighborhood can collectively work towards implementing a shared vision for Central Williamson Creek Greenway?

MAP IT:

- Using the map, mark areas along the creek where your vision would be most impactful or where you
- would like to see specific activities happen with a star.

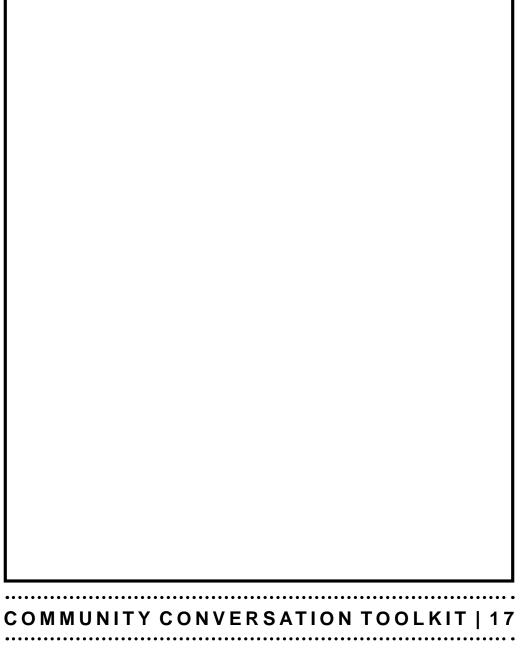


4 NOTES

Types of activities you would like to see along the creek & locations you have in mind

COMMUNITY CONVERSATION TOOLKIT | 16

FUTURE VISION

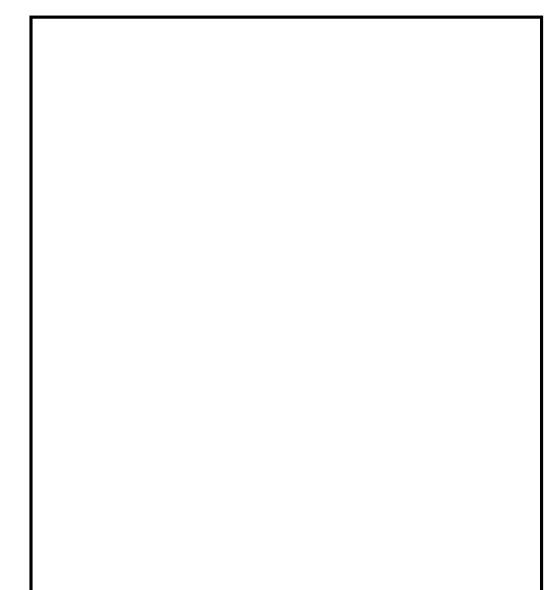




4 NOTES

FUTURE VISION

Ways you and your neighbors can be stewards of the creek



COMMUNITY CONVERSATION TOOLKIT | 18

.....



Williamson Creek Greenway

Ways you and your neighbors can collectively work towards implementing a shared vision

COMMUNITY CONVERSATION TOOLKIT | 19



CONGRATULATIONS, YOU COMPLETED THE TOOLKIT!

... but you're not done yet. Please share the results of your conversation back so they can be included in the community vision!

Ways to share your conversation toolkit results:

- Email a photo or scan to info@ centralwilliamsoncreek.org
- Mail to Community Powered Workshop, 1023 Springdale Road, #13F, 78721

If you have any additional questions or concerns please contact us at info@centralwilliamsoncreek.org

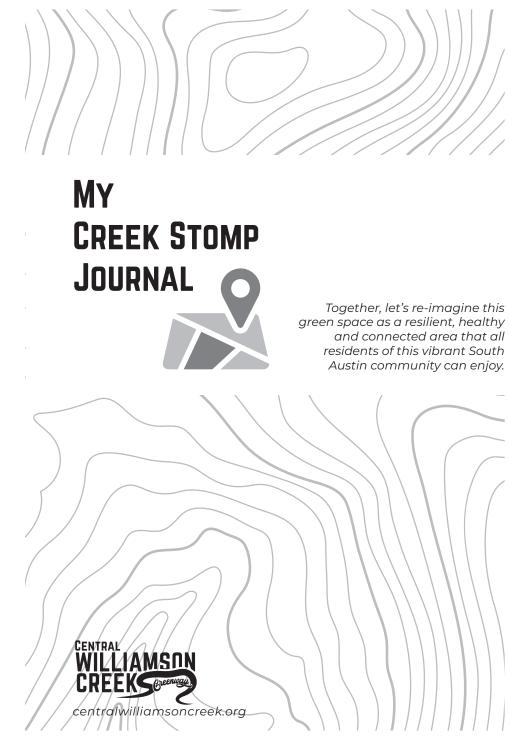
This toolkit was developed by Community Powered Workshop in partnership with Public, Green & Wild, The Nature Conservancy, and the National Park Service.

This partnership came from a resident-identified need for a comprehensive community vision for public access to the growing stock of publicly owned land along Williamson Creek for the benefit of neighborhood residents.



Creek Stomp Journals

The Creek Stomp Journal was provided to create a common method for documenting hikes along the creek to share with neighbors and inform the vision planning process.



MY CREEK STOMP JOURNAL

Multi-functional green spaces are critical components of urban resilience and they contribute largely to the health and well-being of nearby residents. Those residents and community leaders (you!) have an important role to play in the future of this community greenspace.

Community members from across the Central Williamson Creek area are actively engaged in a planning process to envision a healthy and resilient future for the Greenway.

This Creek Stomp Journal was created to provide a common method for documenting hikes along the creek to share with neighbors and inform the vision planning process. Your submissions will be shared on the project website: www.centralwilliamsoncreek.org.

We invite you to use this journal to record your creek stomps and send them back to us however is most convenient for you:

email: info@centralwilliamsoncreek.org mail: 1023 Springdale Road, #13F, 78721 or call to coordinate pick up at 512-220-4254

Please visit www.centralwilliamsoncreek.org for other ways to get involved including:









Have suggestions for other ways you'd like to get involved with the Greenway planning process? Let us know at info@centralwilliamsoncreek.org!



VIRTUAL EVENTS

COMMUNITY CONVERSATION TOOLKITS

COMMUNITY PHOTOS find us on the iNaturalist app

YOUR GREENWAY, YOUR STORIES record your story today!

MY CREEK STOMP JOURNAL

DATE/TIME:

ENTRY & **EXIT POINTS:**

TRANSIT

TYPE:

DIFFICULTY:

DISTANCE:

AMENITIES:

Conditions

Creek dry 0 0 0 0 0 wet	Creek	dry	Ο	Ο	Ο	Ο	0	wet
-------------------------	-------	-----	---	---	---	---	---	-----

Obstacles few 0 0 0 0 0 many

- Trail poor 0 0 0 0 0 clear
- Navigation easy 0 0 0 0 0 hard
 - Bikeable easy 0 0 0 0 0 hard
 - Activity none 0 0 0 0 0 a lot
 - Wildlife none 0 0 0 0 0 a lot

Vegetation invasive O O O O O o native



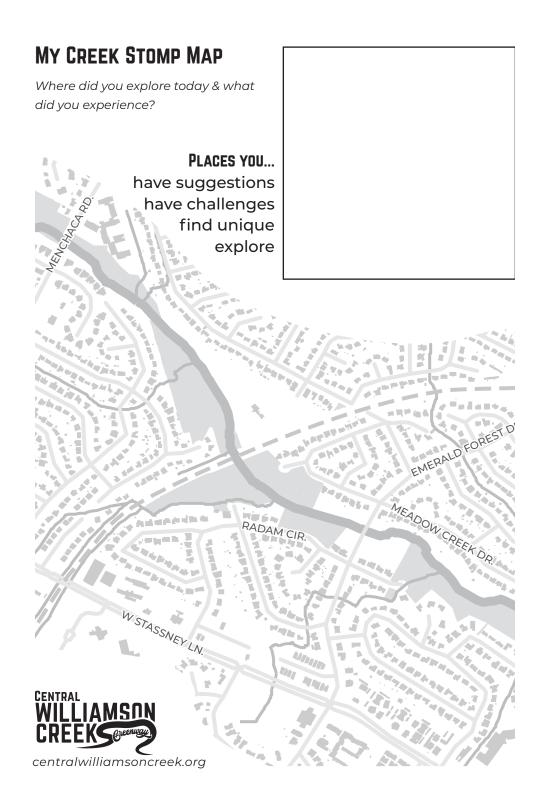
260

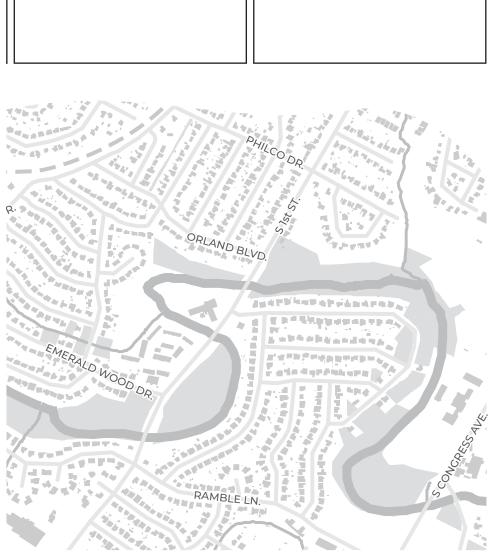
centralwilliamsoncreek.org

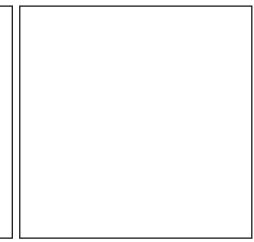
What do your neighbors need to know about this part of the creek?

NOTES ABOUT YOUR CREEK STOMP:

What was the best & worth part of your Creek Stomp today? What do you hope for the future of this part of the creek?







MY CREEK STOMP JOURNAL

DATE/TIME:

Entry & **EXIT POINTS:**

TRANSIT

TYPE:

DIFFICULTY:

DISTANCE:

AMENITIES:

Conditions

Creek dry 0 0 0 0 0 wet	Creek	dry	Ο	Ο	Ο	Ο	0	wet
-------------------------	-------	-----	---	---	---	---	---	-----

Obstacles few 0 0 0 0 0 many

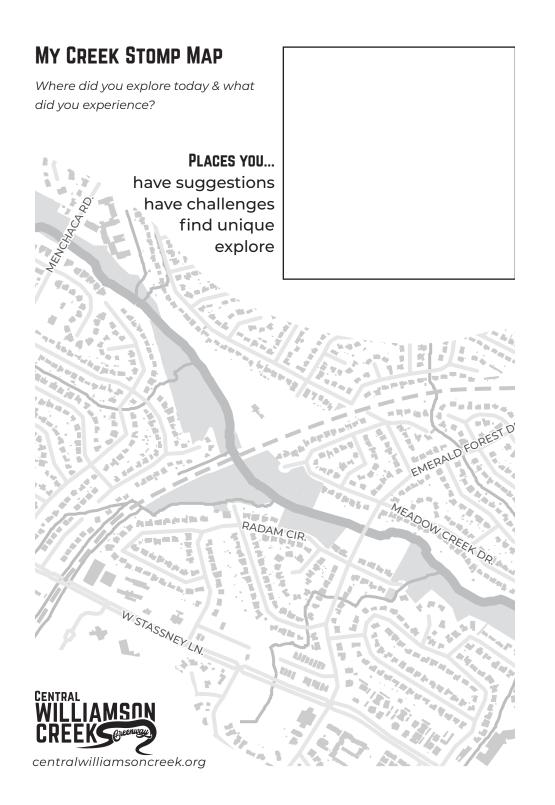
- Trail poor 0 0 0 0 0 clear
- Navigation easy 0 0 0 0 0 hard
 - Bikeable easy 0 0 0 0 0 hard
 - Activity none 0 0 0 0 0 a lot
 - Wildlife none 0 0 0 0 0 a lot
- Vegetation invasive O O O O O o native

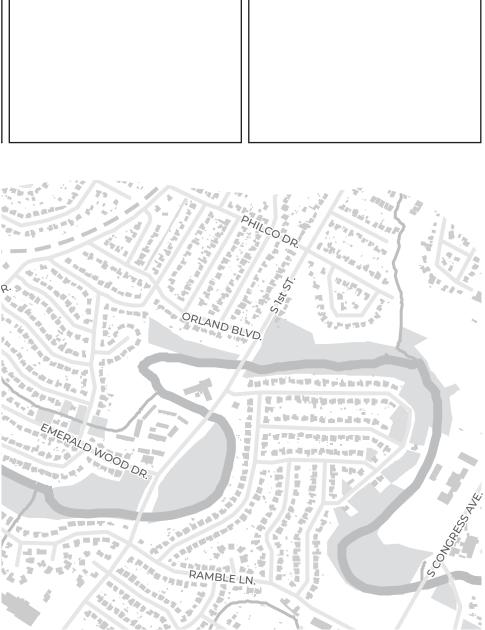


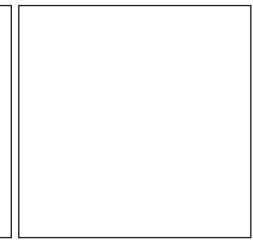
centralwilliamsoncreek.org

 What do your neighbors need to know about this part of the creek?

 DITES ABOUT YOUR CREEK STOMP:







My Creek Stomp Journal

DATE/TIME:

Entry & Exit Points:

TRANSIT

TYPE:

DIFFICULTY:

DISTANCE:

AMENITIES:

CONDITIONS

Creek	dry	Ο	Ο	Ο	Ο	0	wet
-------	-----	---	---	---	---	---	-----

- **Obstacles** *few* **O O O O** *O many*
 - Trail poor O O O O O clear
- Navigation easy 0 0 0 0 0 hard
 - Bikeable easy 0 0 0 0 0 hard
 - Activity none 0 0 0 0 0 a lot
 - Wildlife none OOOOO a lot
- Vegetation invasive O O O O O o native



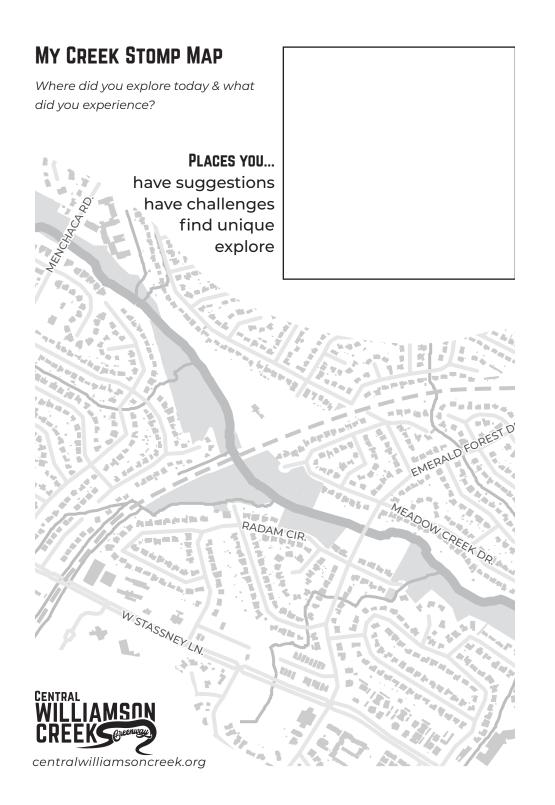
268

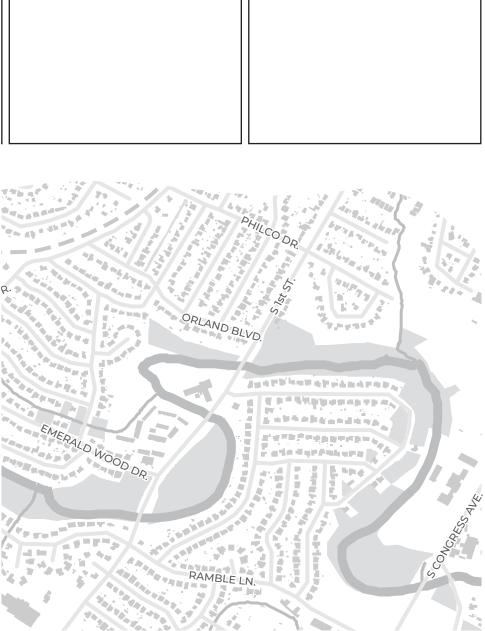
centralwilliamsoncreek.org

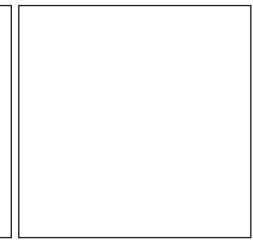
What do your neighbors need to know about this part of the creek?

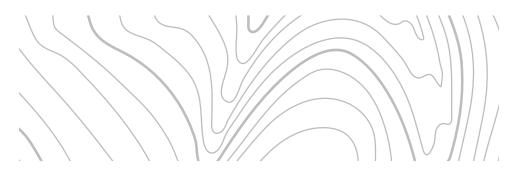
NOTES ABOUT YOUR CREEK STOMP:

What was the best & worth part of your Creek Stomp today? What do you hope for the future of this part of the creek?









"The Peace of Wild Things"

When despair for the world grows in me and I wake in the night at the least sound in fear of what my life and my children's lives may be, I go and lie down where the wood drake rests in his beauty on the water, and the great heron feeds. I come into the peace of wild things who do not tax their lives with forethought of grief. I come into the presence of still water. And I feel above me the day-blind stars waiting with their light. For a time I rest in the grace of the world, and am free.

by Wendell Berry



Appendix F NATURE TRAIL AND TRACK GUIDANCE NEAR TREES Courtesy of the Austin Heritage Tree Foundation

"Nature" Trails Are Not Used Mostly By Children And Parents In Neighborhood (Occasional Use) Heavy Use and Heavy Environmental Impact: Huge Mountain Bike Race Held Yearly At Pace Bend Park, Besides Every Day Use. Large Groups Of Mountain Bikers In Greenbelts. austinridgeriders · Follow -"nature" trails ("single-track"). Pace Bend Park are ARA members. Some are from out of town. due to trail design and use: trail exciting. rains, some love the mud.

ARR designs, builds and maintains most of the Some AAR volunteer events only have 5 volunteers. Mountain bikers ride these trails, whether or not they Heavy impact in environmentally sensitive areas, Trees and creeks are used as challenges to make Some mountain bikers follow rules of not riding after

Some stay in trail. Some like to make feeders.

The Austin Ridge Riders is YOUR local not-for-profit Mountain Bike Club. ARR uilds and maintains the sweet singletrack we all enjoy. If you are not yet a n of ARR. SIGN UP TODAY! http://www.austin

Austin Heritage Tree Foundation - 04.10.19

"Nature" Trails In Austin Are Typically Designed To Go Through Trees (Obstacle Challenge)

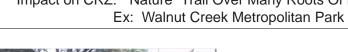
Hundreds Of Mountain Bikers Ride Through Trees And On Their Root Zones Ex: Pace Bend Park

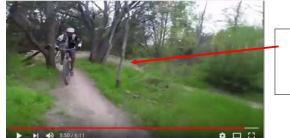


FEEL THE PAIN! - Pace Bend Mountain Bike Race Day VLog 7









"Nature" trails impact CRZ of heritage trees, not just that of cedars, invasives, or less valuable trees

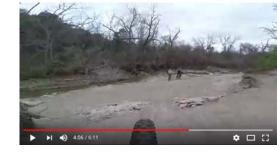


03 23 14 Austin Ridge Riders Group Ride

"Nature" Trails In Austin Are Typically Designed To Use Creeks For Challenge Hundreds Of Mountain Bikers Ride Along Creek Banks And In The Creek Bed Ex: Walnut Creek Metropolitan Park



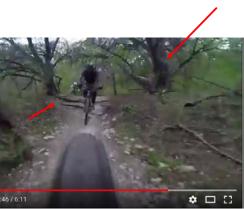




Impact on CRZ: "Nature" Trail Over Many Roots Of Heritage Trees

Notice another trail 3 ft. away on other side of heritage tree.

3/4 CRZ impacted





03 23 14 Austin Ridge Riders Group Ride

Another Example: Riding In Another Creek Bed, For A Long Distance Walnut Creek Metropolitan Park





Riding with Trail Features at Walnut Creek - Austin



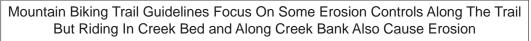
Then Finally Crossing the Creek After A Long Trail Section Riding In the Creek Bed. A Good Trail Design Crosses Creek Right Away To Minimize Impact and Erosion







Riding with Trail Features at Walnut Creek - Austin



Sustainable And Environmentally Focused Trail Design Guidelines Are Needed



0

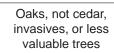


ARR Improved One Case (For Ride and Trees), But It Would Be Much Better To Go Around Trees

🖻 🗛 🛸 🗐 100% 🛢 6:22 AM

strikes over the years. Elevated the trail tread with a log and rock roller to give the oaks a + preak and add a fun flowy feature to the trail as well.







PARD Doesn't Allow Pruning, Sawing, Cutting, Etc. Anything Above 2 inches



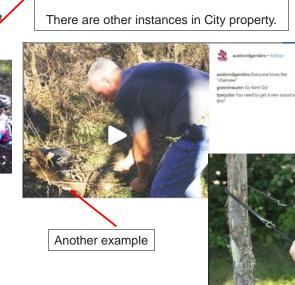
Thanks everyone who participated in the ARR Cranksgiving 2018 at Pace Bend Park Trails. It was an incredible day. A special thank you to the volunteers who helped put on such a tun event.



Charlie Riou November 25, 2018 at 6:03 PM · @

Patti Tsai & Nikko Bivens showing the limb who's boss at Austin Ridge Riders Cranksgiving. 🙂

12



This is large branch of an oak tree being cut

with a flexible pocket chain saw by 2

participants in AAR's Pace Bend Park race.

Examples Of "Nature" Trails That Impact The Environment Severely

Pace Bend Park trail: Trail very close to trees. In some spots trail through trees.

"2017 ARR Pace Bend Race" https://youtu.be/lhAsT37L-po

<u>Walnut Creek Park trail</u>: At 2:42 trail goes through trees. At 4:01 trail right by creek edge, then crosses creek. At 4:46 trail in between large oaks. At 5:50 trail again through large trees even though there is another trail 3 ft away from tree. 3⁄4 of CRZ impacted.

"03.23.14 AAR Group Ride" https://youtu.be/JdrwBdNYiBE

<u>Walnut Creek Park trail</u>: From 2:14 to 2:55 bikes riding on dry bed instead of just crossing creek.

"Riding with trail features at Walnut Creek Park" https://youtu.be/uTX3nQ8J6E8



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