



**Paul Asmuth, MS Forestry**

**Napa County Climate  
Action Committee**

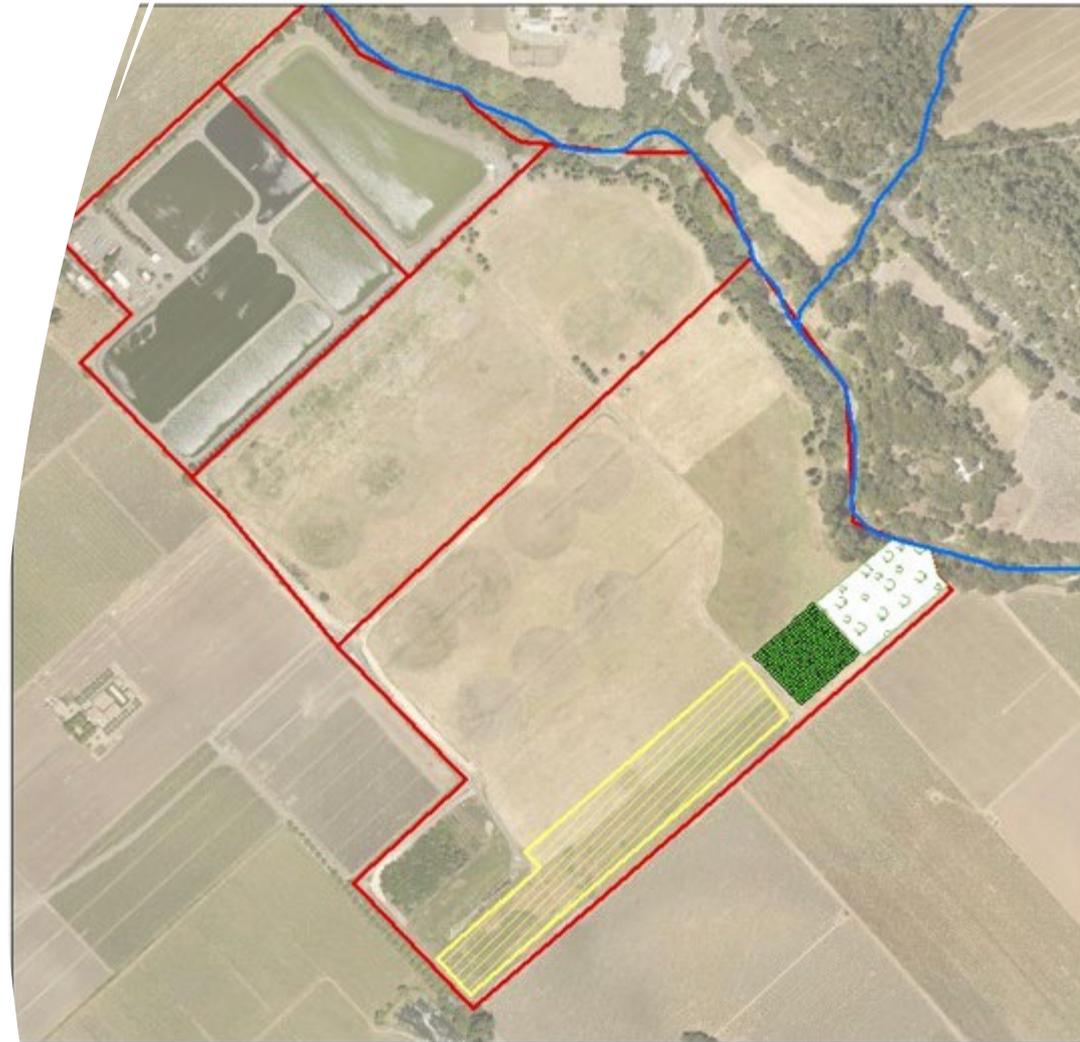
**March 27, 2026**



***A Proven Nature-Based Climate Solution on Public Land***

***Transforming recycled wastewater into forest, habitat, and carbon storage – at no cost to the City of St. Helena.***

# Location & Opportunity



Landowner Parcels  
ASMT: 030250018000

- Blue Line streams
- Current Planting Locations
- Future Riparian Oak Planting
- 2021 Proposed Expansion
- WWTP\_Parcels

Maps prepared for informational purposes only. Image depicts publicly available data and needs to be considered with on-the-ground conditions and more accurate site-specific data that may exist. No liability is assumed for the accuracy of the information or data displayed.



Map Date: 01/15/2020  
Prepared By: NCRCD  
Data Sources:  
Napa County Parcels (2019)



- City of St. Helena-owned land adjacent to wastewater treatment plant
- Historically fallow land converted into a forest ecosystem and climate asset
- Irrigated using recycled water (WWTP effluent)
- Replicable model for Napa County

# From Concept to Implementation

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- **Initial planting: 2011–2012**
- **Trees now 60+ feet tall, 16 – 20” diameter**
- **Expansion (2021–2024): +11 acres, +2,000 trees**
- **Total planted: 2,500+ trees**
- **100+ pollinator shrubs 14 native species**
- **Partnership with City of St. Helena, RPFs, and Napa RCD**

# Community Forest Purpose



A productive use of City-owned land that delivers:



**Environmental protection  
and climate resilience**



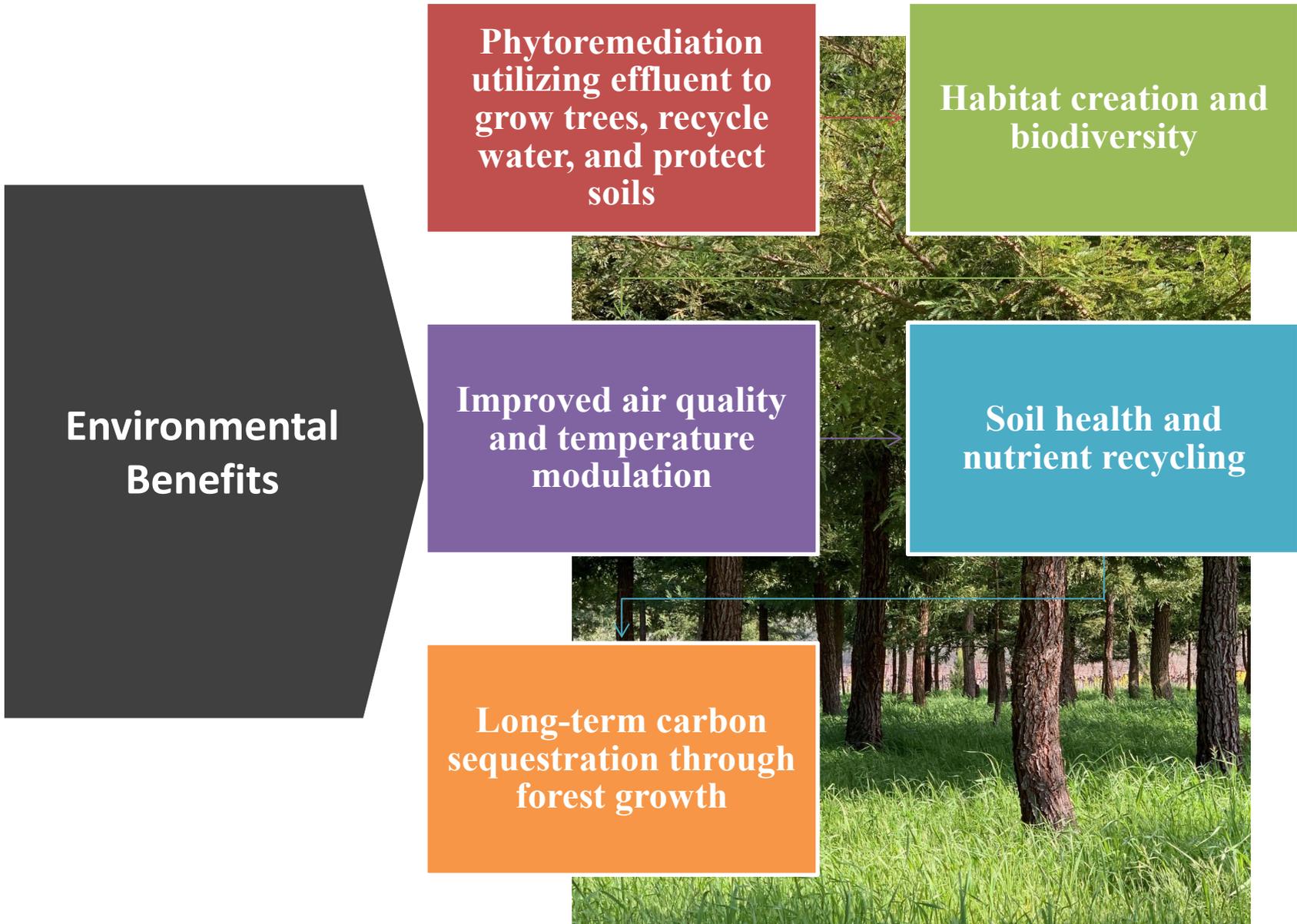
**Educational opportunities  
for local youth and  
community**



**Wildlife habitat through  
reforestation and  
protection**



**Community benefits of  
recreation, aesthetic  
beauty**



**A thriving forest delivering measurable ecological and climate benefits over time.**

# Education Opportunities

- Redwood/Oak plantings
- Forestry curriculum
- Nature experiences
- Local schools and community





Cattle egret



Sandhill cranes

# Wildlife Habitat and Protection

- 31 bird species January 2024
- Rare bird sightings
- Barn owls roosting



# Community Benefits

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- **Health - Recreation, forest bathing, aesthetic beauty, air quality**
- **Alignment with City of St. Helena Parks and Rec Goals and Walking Master Plan**
- **Leads the way in Napa County climate action goals of the RCAAP**
- **No cost to the City of St. Helena and allows for normal WWTP operations**

# Watershed & Water Quality Benefits



PRODUCTIVE USE OF  
TERTIARY TREATED  
WASTEWATER



IMPROVED INFILTRATION  
AND GROUNDWATER  
RECHARGE



REDUCED EROSION AND  
SEDIMENT TRANSPORT



MODERATED SOIL  
TEMPERATURE AND  
EVAPORATION



ENHANCED HABITAT  
CONNECTIVITY



CLOSED-LOOP LOCAL  
WATER REUSE SYSTEM

# Climate Action & RCAAP Alignment



**NATURE-BASED  
CLIMATE SOLUTION  
WITH LONG-TERM  
CARBON  
SEQUESTRATION**



**EFFICIENT USE OF  
TREATED  
WASTEWATER**



**DROUGHT-TOLERANT  
AND FIRE-RESILIENT  
SYSTEM**



**SUPPORTS  
BIODIVERSITY AND  
HABITAT**



**REPLICABLE ACROSS  
NAPA COUNTY**

**Demonstrates a scalable, nature-based solution already in operation.**

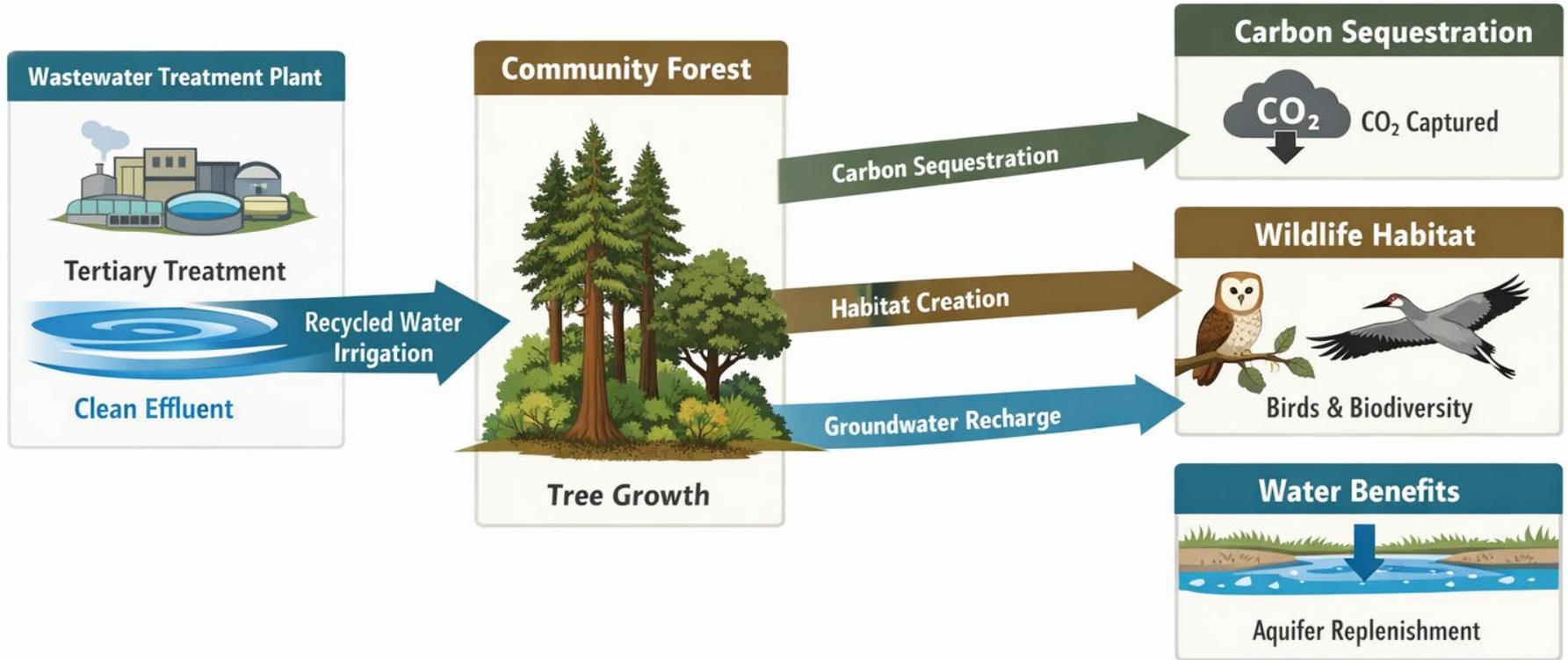
# Why Coast Redwoods

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- **Fast-growing and live 2,000+ years**
- **Sequester carbon faster than other trees**
- **Fire, drought, and disease resistant**
- **Native to Napa County**
- **Valuable timber crop**
- **Sustainable forestry**



# How the system works



## The St. Helena Community Forest

This is not a concept – it is a proven low-risk model ready for replication.

# **Opportunity for Napa County**

**Proven model on public land**

**Integrates forestry, water reuse,  
and habitat restoration**

**Expandable across Napa County**

**Aligns with climate, watershed,  
and community goals**

**Invitation for site visit and  
partnership**

# Project Leadership

Paul Asmuth,  
Founder, MS  
Forestry

Marilyn Asmuth,  
Founder

Nick Kent, RPF, Cal  
Fire

Andy Armstrong,  
RPF, North Coast  
Resource  
Management

John Henshaw,  
RPF

William J. Libby,  
PhD, Professor  
Emeritus UC  
Berkeley

## Support Team

- Sustainable St. Helena, 501(c)(3) – Nonprofit
- Napa Resource Conservation District
- Natural Resources Conservation Services
- Silverado Farming – Pete Richmond and David McGraw
- City of St. Helena