



January 15, 2020  
Oregon Country Fair (OCF)  
Land Use Management Planning Committee  
Attn: Dennis Todd, PhD  
442 Lawrence Street Eugene, Oregon 97401  
(541) 554-0359

<https://www.oregoncountryfair.org/>  
Submitted electronically to: [rfq@oregoncountryfair.org](mailto:rfq@oregoncountryfair.org)

*Re: Request for Qualifications (RFQ): Comparative Analysis of Greywater Recycling Systems for OCF*

Dear Dennis,

Thank you for encouraging Watershed Progressive's (WP) participation in the RFQ process for conducting the *Comparative Analysis for Greywater Recycling Systems for OCF*. Watershed Progressive is a leader in innovative water and climate resiliency treatments. We specialize in developing sustainable onsite water remediation for varied habitats and environments while focusing on water conservation and reuse, stormwater management, watershed health and community water security.

We have been a major proponent in onsite water conservation and reuse projects for residential, commercial, institutional and governmental clients. We specialize in design-build services, engineering, consultation, outreach and water education initiatives. The *OCF Comparative Analysis for Greywater Recycling Systems* effort directly aligns with our technical expertise and demonstrated leadership in innovative water resiliency treatments.

We are excited to share our Statement of Qualifications with you. In addition to our successful projects, WP is filled with heart-driven professionals that value projects prioritizing land stewardship. Building healthy and resilient communities is at the core of all our projects; OCF's mantra, "Above all, reverence for the land" resonates deeply with us. Over the past several years, we have prioritized scaling our engagement with larger sites, for events and gatherings, and we're excited to work more intimately with conferences and festivals to incorporate net-zero water operations, water reuse, purification and energy-saving systems.

We believe your innovative project goals will benefit from our expertise and leadership in developing and implementing climate resiliency treatments at multiple scales; and our shared desire to create resilient and healthy communities through collaboration and meaningful design. We look forward to working with you.

Sincerely,

A handwritten signature in black ink, appearing to read "Regina Hirsch".

Regina Hirsch, Executive Director



Watershed Progressive  
2020 Statement of Qualifications  
Prepared for: The Oregon Country Fair

Central Sierra Office: 18653 Main Street  
Groveland, CA 95321

Central Coast Office: 106 N. Signal Street. Ste S  
Ojai, CA 93023

# STATEMENT OF QUALIFICATIONS



## COMPANY OVERVIEW

Watershed Progressive is a leader in innovative climate resiliency treatments utilizing a regenerative, holistic design approach. Our scope of work includes project development, management and implementation, from high-level analysis to design, engineering, community outreach and education, installation, maintenance and monitoring.

We specialize in developing sustainable onsite water remediation specific to the varied habitats and environments of the western United States, that includes water conservation, stormwater management, watershed health and community water security in service of climate resilient communities. Watershed Progressive collaborates on robust demonstration projects in local neighborhoods, public, and commercial settings. We work with residential, commercial, institutional and governmental clients.

## VISION AND FOCUS

We envision thriving communities participating as stewards of their resilient ecosystems. We focus on demonstration projects including installation and monitoring at schools, lodges, resorts and neighborhood communities where Low Impact Development (LID) can enhance water quality and security. We create solutions while modeling best practices for to reach optimum watershed health for our future generations.

## WATERSHED PROGRESSIVE & OREGON COUNTRY FAIR

*The Comparative Analysis for Greywater Recycling Systems for OCF* directly aligns with our technical expertise and demonstrated leadership in innovative water resiliency treatments. Our approach is to work with the values and goals of OCF to identify the optimal possibilities for greywater recycling systems. We incorporate best available data and science to drive development of projects, conduct analyses, and use stakeholder-partner input to develop a suite of integrated approaches.

## PROPOSED APPROACH

*"Above all, reverence for the land."*

We work with the values of land stewardship and an ethos of "relatives, not resources." Our goal is to reduce or eliminate OCF's reliance on importing and transporting water and to localize available alternative onsite water sources to fit the needs of OCF's water demand and use.

Additionally, we explore a portfolio of approaches that promotes multiple benefits to onsite water reuse, including reduced embedded energy, carbon sequestration, and increased soil health, water quality and security to foster resilient communities.

# SERVICES



## ENVIRONMENTAL PLANNING

- Water Management Planning
- Water Management Goal Setting
- Preferred Alternative Analysis and Prioritization of Phasing Options
- Instream Flow Contribution Analysis
- Onsite Water Budget Analysis
- Grant/Financial Assistance Planning, Administration and Acquisition
- Greywater LID Disposal Systems
- Groundwater LID Recharge Siting
- Habitat Typing
- Passive Phytoremediation Cooling Site Design
- Permit Coordination and Compliance
- Rainwater Reuse Systems
- Remedial Design
- Site Evaluations
- Soils Infiltration/Percolation Testing
- Soils Macroinvertebrate/Fauna Diversity Indexing
- Stormwater LID Mitigation
- Stormwater Pollution Prevention Plan (SWPPP) Monitoring
- Stormwater Project Planning Assistance
- Erosion and Slope Stability Rehabilitation
- Wastewater Phytoremediation
- Above and Underground Storage Tank Evaluation and Closure
- Coastal Sage Scrub, Sierra Foothill, Lower Riparian and Upper Montane Habitat Regeneration and Bank Stabilization
- QAPP Manuals

## HOLISTIC LANDSCAPE

- Bioremediated Water features: Commercial /Residential
- Constructed Wetland Habitats
- Drycropping for Native and Food Forests
- Ecological/Natural System Design Integration
- Guided Food Forest Systems Planning/Installation
- Irrigated Reclaimed and Recycled Water Systems
- Irrigation Audits and Remote Control Customization
- LED Outdoor Lighting
- Rainwater, Greywater, Stormwater LID Installations
- Rainwater, Greywater, Stormwater LID Monitoring
- Erosion and Slope Stability Rehabilitation
- Permeable Hardscapes Identification and Planning
- Regenerative Native/Non-exotic Non-invasive plant schemes
- Comprehensive Site Design, Permitting

## EDUCATIONAL/OUTREACH

- Local Government Guidance Documents
- Public Outreach Strategic Plans (Including DAC/K12 School)
- Public Meeting Direction/Facilitation/Scheduling
- Stakeholder Identification, TAC Formation
- Public/Client Survey Feedback Analysis
- Facilities Maintenance & Public Water Management Trainings
- Interpretative Display Custom Model Building
- Augmented Watershed Sandbox Fire/Flood Modeling
- Mobile Water Learning Laboratory Design/Build
- Regional Holistic Design Seminars
- Native Greenhouse Management Trainings
- Onsite Maintenance and Monitoring Guidance Documents
- Onsite Water Reuse Workshops
- Printed Project Summary (printed/digital)
- Interpretative Signage Design and Installation

## ADDITIONAL INFORMATION



### CLIENTS

Butte County  
Cal Polytechnic University, San Luis Obispo  
California Conservation Corp  
California National Guard  
Camp Mosaic  
Camp Tawonga  
Central Coast Salmon Enhancement  
City of Ojai  
Evergreen Lodge, Yosemite  
La Casa de Maria, Montecito  
Mariposa County Public Works  
Mono Lake Committee  
Morro Bay National Estuary Program  
Ojai Unified School District  
Ojai Valley Inn  
Rancho El Chorro Outdoor School, San Luis Obispo  
Rush Creek Lodge, Yosemite  
San Luis Obispo County Office of Education  
Senior Canyon Mutual Water District  
The Thacher School, Ojai  
Tuolumne Resource Conservation District  
Tuolumne River Trust  
Trout Unlimited  
United States Forest Service  
Ventura River Water District

### TRAINING/PRESENTATIONS

American Rainwater Catchment Systems Association (ARCSA)  
Americorp National Civilian Community Corps (NCCC) Watershed Stewards  
Bioneers, Central Coast  
California Directors of Environmental Health Directors Association  
California Governor's Office Water Forum  
California Onsite Water Association  
California Green Building Association  
California Native Grasslands Association  
California Society for Ecological Restoration (SERCAL)  
California State Water Reuse Forum  
California Stormwater Quality Association  
California UC Cooperative Extension  
Central Coast Salmon Enhancement  
Garden Clubs of California  
Green Building Coalition  
Greywater Action  
Localizing California Waters Conference  
National Association Wastewater Trainers  
Next Generation Water Summit  
River Advocacy Training  
Salmon Restoration Federation  
South Yuba River Citizens League (SYRCL) Water Conservation Training  
The Water Foundation  
Utah Onsite Wastewater Association

## ADDITIONAL INFORMATION



### PROJECT PARTNERS/AFFILIATES

American Rainwater Catchment Association  
Americorp Watershed Stewards  
Bushman Tanks, American Tanks  
California Conservation Corp  
California Onsite Water Association  
California Fish and Wildlife  
California Green Building Association  
California Master Gardeners  
California Onsite Water Association  
California Stormwater Quality Association  
California UC Cooperative Extension South Coast Habitat Restoration  
Central Coast Salmon Enhancement  
Central Coast Water Conservancy  
Decentralized Water Policy Council  
Greywater Action  
In Good Company  
Jensen Engineering and Survey  
National Oceanic and Atmospheric Administration (NOAA)  
Northstar Engineering

Occidental Arts and Ecology Center  
Ojai Valley Green Coalition  
Ojai Valley Land Conservancy  
Santa Barbara Land Trust  
Salmon Restoration Federation  
Stillwater Sciences  
Telele Foundation  
Tom Hicks Law  
TriCounty Fish Team  
Trout Unlimited  
Tuolumne Resource Conservation District  
Tuolumne River Trust United States Forest Service  
Upper Merced Watershed  
Upper Salinas Resource Conservation District  
Ventura County Resource Conservation District

## KEY PROJECTS



### TCRCD LANDOWNER RESILIENCE PROGRAM

#### WATER CONSERVATION, REUSE, OUTREACH, & EDUCATION PROJECTS

The Landowner Resilience Program originated in Tuolumne County in partnership with the Tuolumne County Resource Conservation District, and engages with landowners to promote local onsite water treatments, including rainwater harvesting, greywater reuse, stormwater management and water efficient landscaping.

The Demonstration Site Public Program engages larger public space sites for the application of water conservation treatments. These sites demonstrate the potential for a range of tools and treatments available for larger scale projects and have been used as educational spaces for community engagement.

Combined, both programs have installed on-site water treatment projects that recharge and conserve approximately 1,240,300 gallons of water annually, and we project another 870,000 gallons per year for projects in 2020. Over the course of 10 years, nearly 20,000,000 gallons of fresh water supply will be conserved, equating to more than 6.5 gallons for every dollar spent in this program.

More than just preserving fresh water supply, these projects are moving toward critical community values of fire and energy resilience and habitat restoration. The multiple benefits of these treatments range from fire and energy resilience to increased soil health and food security. For example, a residential client installed a 15,000 gallon rain tank on their property to conserve potable water. The additional water supply allowed them to irrigate the trees on their landscape, contributing to the benefits of habitat creation and fire resilience in addition to water security and increased soil health.



## KEY PROJECTS



### EVERGREEN LODGE YOSEMITE, CA WATER REUSE, ECOLOGICAL LANDSCAPE PROJECT

Evergreen Lodge is a historic resort just outside Yosemite National Park. In 2010, a greywater system was installed to recycle 1.9 million gallons of water annually from guest cabins, staff housing and commercial laundry. At the time of installation, Evergreen was the largest permitted greywater installation in Tuolumne County and is widely referenced as a case study for the potential of larger, commercial greywater systems in four season environments.

This wastewater reuse project provides native plant habitat rehabilitation while simultaneously decreasing potable water needs from groundwater wells. WP developed, permitted and implemented planning elements for Evergreen Lodge to provide wastewater harvesting, transporting, phytoremediation and storing dispersal of greywater from the commercial laundry, staff dorms and guest cabins. The water is used to facilitate the growth of landscaped areas, create habitat regeneration as well as alleviate onsite wastewater processing loads. These systems are all localized and onsite based for highest ecological regenerative and low maintenance values. Seven greywater delivery systems were installed and are monitored per the Evergreen Lodge Monitoring and Maintenance Manual quarterly for water, soil and ecological values.

Additional stormwater mitigation BMPs were also installed in late 2013 to reduce stormevent erosion from Rim Fire effects as well as hazardous snow melt runoff, which are currently being monitored for effectiveness.

Some of these have been combined with greywater in an effort to create ecological wetland systems that can detoxify roadway runoff, as well as other nutrient loads.



#### Calculations include:

- 1.9 mgd for additional shower greywater project planned
- 20,000 gal greywater and rainwater reuse



## KEY PROJECTS



### RUSH CREEK LODGE YOSEMITE, CA WATER REUSE, ECOLOGICAL LANDSCAPE PROJECT

To further enhance the water/energy saving efforts of the Lodge, WP is proposing the addition of a recycled water system to utilize treated greywater from showers and sinks. This innovative solution will recycle the twice-used water for a third time, preserving critical freshwater supplies, decreasing water and nutrient load concentration, reducing the strain on the septic system, and enhancing and hydrating the landscape to nourish habitat to benefit the health and well-being of the land, community, and surrounding natural resources.

This wastewater reuse project harvests over 3.3 million gallons of greywater annually while providing native plant habitat rehabilitation while simultaneously decreasing potable water needs from groundwater wells. WP developed, permitted and implemented planning elements for Rush Creek Lodge to provide wastewater harvesting, transporting, phytoremediation and storing dispersal of greywater from the commercial laundry, staff dorms and guest cabins. The water is used to facilitate the growth of landscaped areas, create habitat regeneration as well as alleviate onsite wastewater processing loads. These systems are all localized and onsite based for highest ecological regenerative and low maintenance values.



## KEY PROJECTS



### **TUOLUMNE RCD K-12 SCHOOLS WATER RESOURCES PROGRAM, CA WATER REUSE, ECOLOGICAL LANDSCAPE PROJECT**

Tuolumne County Resource Conservation District contracted Watershed Progressive to assess all schools in Tuolumne, Calaveras County along HWY 4 and HWY 120 corridor. Assessment will help schools identify its water expenditure and suggests best management options. Each school will have a two-day installation project completed by Watershed Progressive, students, and local volunteers. The assessments created the framework for larger projects and grant opportunities. Assessment and two day installations were completed July 2018.



# KEY PROJECTS



## PLANNING AND FEASIBILITY STUDY FOR INTEGRATED WATER STRATEGIES TO ENHANCE STREAMFLOWS SANTA BARBARA & VENTURA COUNTIES WATER REUSE, ECOLOGICAL LANDSCAPE PROJECT

This WCB Planning and Feasibility Study will frame, geographically identify and prioritize water conservation and reduced consumptive use opportunities that promote the highest potential for instream flow contributions in five different watersheds in Santa Barbara and Ventura Counties. The study will assess a variety of acquisition and implementation project types that in the aggregate present a unique non-regulatory strategy to reduce surface and/or groundwater diversions and enhance flows for the long-term persistence of viable, self-sustaining, populations of anadromous steelhead (*Oncorhynchus mykiss*) in Santa Barbara and Ventura Counties.

The Planning and Feasibility Study will scope and measure the individual and cumulative potential for geographically significant conservation projects. Based on the crucial “time value” of water in already recognized and prioritized California Department of Fish and Wildlife (DFW) fragile steelhead habitats, new projects will be assessed and rated by their local instream flow benefits such as: on site recycled water opportunities, ornamental and agricultural irrigation best management strategies, Low Impact Development (LID) storm water infiltration, Water Conservation Management Best Management Practices (BMP) employment, and voluntary water right transactions such as acquisition, lease, and donations. Consultants will quantify the opportunity in water savings to the user as well as multiple benefits to watershed processes and landowner.



Watershed Progressive is the Water Resource planner, designer, analyst, for site prioritization, as well as Public Outreach Monitor and Stakeholder group formation and planning.

## KEY PROJECTS



### MOBILE WATER LEARNING LAB & AUGMENTED SANDBOX OUTREACH WATER CONSERVATION & STORMWATER PROJECT

The Mobile W.A. T. E. R. (Working Alternatives Toward Efficient Resource Use) Learning Lab was designed and constructed by WP for use by the Tuolumne Resource Conservation District (TCRCD) and their partnering outreach program. It's programmatic and adhoc use has reached thousands of Tuolumne County residents, and has been showcased at numerous stormwater and water conservation conferences.



Custom built by Watershed Progressive, the Augmented Reality Sandbox Watershed Model was modeled after various typologies, and customized for TCRCD in their school outreach program. The model combines these attributes for teaching curriculum:

- 1) Flood modeling
- 2) Earthworks modeling for BMPs
- 3) Snow and fire modeling
- 4) Basic Watershed topography
- 5) Additional real time modeling (added screen) based on hydrologic input

# KEY PROJECTS



## CALIFORNIA CONSERVATION CORPS, LOS PADRES CENTER STORMWATER MITIGATION & WATER CONSERVATION LID

The California Conservation Corp and National Guard site in San Luis Obispo has had three distinct phases of its Water Conservation Project installed:

### 1. NATIVE PLANT RESTORATION PROJECT

Watershed Progressive provided instruction and a 2-year curriculum for Special Corp Members on Native Greenhouse Management, while developing Native Greenhouse and Nursery and sample protocols. In collaboration with the CCC, National Guard and NOAA, Watershed Progressive designed and facilitated the installation a 44,000 rainwater catchment aimed at supplying irrigation for the Native Greenhouse plants in Fall of 2011.

### 2. STORMWATER MITIGATION AND WATER CONSERVATION LID PILOT 1533

In collaboration with CCC, National Guard, NOAA, Prop 84 funding, and the MBNEP, a one acre pilot project on Crew Dormitory 1533 focused on 95% stormwater mitigation plan to reduce flooding, erosion and other storm event effects through BMPs and contextual LID techniques. Multi-functioning LID measures were installed to decrease heat island sinks, increase native habitat, increase carbon sequestering, increase water quality to adjacent surface and groundwater, decrease storm event hydrograph, improve soil permeability, increase interstitial flows, decrease reliance on drinking waters while providing an educational demonstration site and to increase base flows to adjacent Chorro Creek. Even through record drought precipitation levels, preliminary monitoring data has shown better than targeted results across the project site, namely in the sequestration of salts within the phytoremediation inclusion basins. Data will be compiled annually, and reported biannually through Watershed Progressive in accordance to the MBNEP CCC Stormwater 1533 Monitoring Plan.



### 3. STORMWATER MITIGATION & WATER CONSERVATION LID TYPOLOGY

In collaboration with CCC, National Guard, and the MBNEP, a twenty-one acre planning scope to mitigate storm event effects and utilized appropriate BMP and LID techniques was performed by Watershed Progressive in 2012-2013. Goals of the planning effort included those performed in 1533 Pilot Project, as well as focusing on feasible improvements for recycled water and reuse as well as groundwater recharge. Outcomes included added beneficial uses such as wetland bioremediation and habitat creation as well as improved management of utilities for staff and crew members.

## KEY PROJECTS



### **RANCHO EL CHORRO OUTDOOR SCHOOL STORMWATER MITIGATION & WATER CONSERVATION LID EDUCATIONAL PROJECT**

Together with Trout Unlimited, San Luis Obispo County Education and NOAA, Watershed Progressive has facilitated goal setting priorities and generated plans development for alternative water reuse and stormwater mitigation LID measures. These measures will assist in modifying the current instream diversion, protect instream pool resources, provide alternative water source for dry season wetland pond uses, develop infiltration BMPS's on the Outdoor School to increase groundwater recharge and interstitial summer base flows.

In 2016 the SWRCB awarded Rancho El Chorro over \$650,000 to implement LID practices such as greywater, stormwater, rainwater to assist in water conservation and public outreach and trainings. WP is providing planning, project lead and public outreach with stakeholder identification for this projects. Installation of LID measures is currently out to bid.



#### **Calculations include:**

- 292,000 gallons Rainwater captured (average rainfall year, used for outdoor irrigation, interpretative exhibits)
- 850,000 gallons Stormwater Capture annually (Heavy Metal and Sediment Filtration Effective Capture through Bioswales/Raingardens)
- 2.5 Acres of Habitat Restoration through wetland creation
- 4 New Outdoor Watershed Learning Laboratories
- 3,100 sqft of LID BMPs (raingardens, bioswales and infiltration basins)
- 9,400 sqft Impervious areas removed (using mulch and soft-scape)
- 18 existing standard-flow toilets removed and replaced with low-flow toilets
- 120 gal/day of greywater reuse

# KEY PROJECTS



## THE THACHER SCHOOL WATER MANAGEMENT PROGRAM WATER MANAGEMENT PLANNING; RAINWATER; GREYWATER REUSE

The purpose of the Thacher School Water Management Plan (WMP) is to analyze water resources, both existing and available to Thacher School. The WMP prioritizes uses in context of current and available Best Management Practices (BMP) to work most efficiently in line with the objectives, goals and management of the Thacher campus and landscape.

In turn, all identified water management recommendations were formed with these objectives:

- Increase stewardship and leadership opportunities for Thacher School community
- Increase independence of water resources for Thacher School
- Reduce water consumption and expenditures from offsite sources
- Reduce water consumption from ecologically sensitive sources, such as Thacher Creek
- Decrease nutrient loading in San Antonio watershed
- Decreasing runoff velocity and volumes during storm events
- Recharging groundwater base flows for landscape availability and ecological benefits

Calculations once all planned projects are installed:

- 21.5 mgy water conserved
- 50 mgy stormwater treated
- 45 mgy streamflow enhanced
- 60 acres of habitat enhancement



### Projects include:

- Dormitory Laundry Greywater
- Dormitory Tank to Toilet
- Dormitory Shower Greywater
- Equestrian Unit Rainwater Capture and Reuse
- Equestrian Unit Stormwater Harvest and Treatment
- Faculty Buildings Laundry to Landscape Greywater
- Athletic Field Water Reuse
- Turfgrass Reduction
- Compost Project
- Mechanical Water REuse
- Blackwater Title 23 Project
- Agricultural Efficiencies and Learning Labs
- Peak Flow Storage and Instream Flow Enhancement
- Stormwater REuse Orchard and Groundwater Recharge Project

## KEY PROJECTS



### **AGRICULTURAL RAINWATER & STORMWATER PROJECT** CALIFORNIA POLYTECHNIC UNIVERSITY, SAN LUIS OBISPO

Partnering with MBNEP, CCC, NOAA, and California Polytechnic State University, Watershed Progressive is designed and installed rainwater catchment system at the Beef Unit at California Polytechnic University, San Luis Obispo. By capturing over 289,000 gallons of rainwater from rooftops, high pollutant loaded stormwater runoff is lessened to adjacent Dairy Creek as well as providing summer drinking water for cattle on site.

Most importantly, this project aims at alleviating summer pumping pressure on neighboring Pennington Creek, a known Steelhead Trout habitat, while potentially increasing base flow in time of low flows or drought. This site will be a focus of monitoring of rainwater catchment effects on stream hydrology as well public demonstration of appropriate low impact development strategies.





# KEY PROJECTS



## CITY OF OJAI COMPARATIVE ANALYSIS REDUCED CONSUMPTIVE USE & RECHARGE

The City of Ojai contracted Watershed Progressive to quantify the City’s local water demand and recharge potential and develop a Catalog of Projects aimed at optimizing the City’s water use once funded and implemented. Key phases to this project speak to WP’s process for comparative analyses:

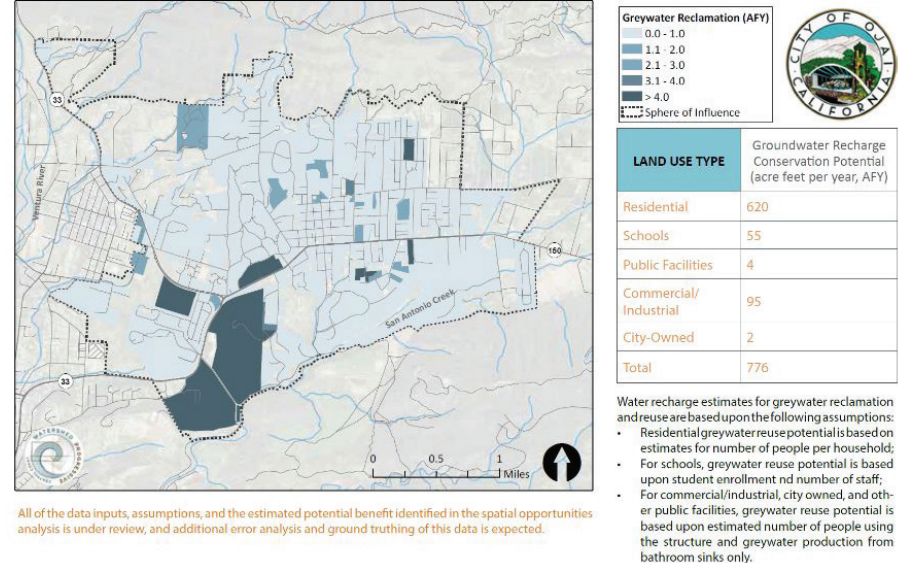
Phase 1 provided visioning and spatial analysis to show how the City, its residents and businesses are using water, and also identified opportunities to reuse and conserve water.

Phase 2 explores climate scenarios and identifies and prioritizes projects that the City and partners within its Sphere of Influence (SOI) should consider implementing.

Phase III develops the details of prioritized projects and the Catalog of Projects. The Comparative Analysis project provides quantitative results for each parcel within the SOI of Ojai City, the current contract with the City does not include developing project plans beyond the conceptual phase.

A grant from the California Wildlife Conservation Board has been awarded to further this effort and includes preparation of implementation ready plans (100% engineering designs and permits) for a subset of neighborhood-scale projects identified during the Comparative Analysis. This project has provided focus for crucial participation in Ventura River Watershed management collaboration, monitoring, and additional integrated strategy generation.

### GREYWATER RECLAMATION & REUSE POTENTIAL



The specific goals of the Comparative Analysis were to support implementation of a balanced water supply strategy. To meet this goal the Catalog of Projects had the following objectives:

- Quantify water demand and recharge opportunities for the City;
- Identify a suite of recommended projects;
- Form objectives and language for General Plan Elements updates, including a discussion of existing and recommended water management programming; and
- Provide the City with information necessary to leverage other future planning efforts and funding opportunities.

## KEY PERSONNEL



### **Regina Hirsch | EXECUTIVE DIRECTOR**

Regina Hirsch is dedicated to bringing appropriate best management solutions to the public by working on the ground in their homes and in public as well as commercial demonstration areas. After getting the watershed monitoring big at the Central Coast Regional Water Quality Board and the Morro Bay National Estuary Program, she moved to the Sierra Nevada for a different approach to reaching people and assessing effectiveness of non-point source pollution treatments. Regina founded Watershed Progressive, the consulting/contracting firm which focuses on onsite water best management practices aimed at rehydrating watersheds. Since 2009, Watershed Progressive has helped design and install projects restoring habitat and aiming to increase watershed hydrologic recharge functionality through water conservation and reuse.

### **Aimee Teaby | WATER RESOURCE & SPATIAL ANALYST II, DRONE PILOT**

Analyst and Project Development Coordinator with Masters in Watershed Science; researcher with 10 years of ArcGIS, spatial data analysis and hydrological modeling experience, as well as hands-on knowledge of watershed, ecosystem-based and site-specific monitoring of erosion, water supply, water quality and sediment load. Currently, building the 'Green Consulting' aspect of WP to engage with large events/festivals to incorporate net-zero water operations; water reuse, purification, and energy- saving systems; composting; reusable wares; and self-sustaining and low-impact food production and service.

### **Sydney Laudenslager | WATER RESOURCE ENGINEER, PE**

Trained in biological engineering and sustainable development, as well as a California licensed mechanical engineer, Sydney has designed plumbing systems for sustainably oriented commercial and multi-family residential high-rise buildings and other developments seeking to control water consumption and enhance local ecosystems. She has helped to develop net-zero water designs for commercial buildings. Sydney's passionate about integrating her plumbing engineering experience within water systems which enhance local sustainable agriculture realms such as hydroponics, aquaponics, permaculture. She's excited about working on projects that engage local community and teach about how to implement similar watershed health strategies or sustainable agriculture practices.

### **Kevin Tulp | GIS ANALYST**

Kevin has over ten years of GIS experience, working with industry leading companies in drone logistics, renewable energy and fiber optics and as a consultant. His diverse background has strengthened his ability to implement GIS solutions more broadly. With a focus on simplifying and automating processes, Kevin is quick to take "manual work" to the command line. He was recently working in Ghana, where he trained a local team on how to conduct and analyze surveys. When he's not working, you can find Kevin in a hot spring, backpacking to a new fly fishing stream, or continuing his education in programming.

### **Aja Bulla-Richards | ASSOCIATE CREATIVE DIRECTOR**

Aja is an architectural and landscape designer, educator, and Associate Creative Director of Watershed Progressive. She brings her various backgrounds to work at the intersection between vast social, and ecological challenges and everyday experience. Her passion for designing environmentally and culturally sustainable water systems has lead her to work with multiple universities and communities as well as in architecture, landscape and urban design firms in LA, Berkeley, Oakland, and Ojai, Berlin Germany, and Charlottesville VA. Aja holds a Master of Architecture and a Master of Landscape Architecture from the University of Virginia, and an MSArch in Dry Lands Design from the Arid Lands Institute. She joined Watershed Progressive to work on regenerative site design, and demonstration projects that perform across scales, catalyzing a paradigm shift that re-imagines our relationship with natural & constructed water cycles helping adapt communities and regions to build a more resilient future.

### **Nicole Stern | WATER & LANDSCAPE ARCHITECT**

Nicole Stern is a landscape architect focused on regenerative design, green infrastructure, and integrated water systems. Over the past two decades, she has worked on watershed planning, ecological restoration, innovative stormwater management, constructed wetlands for wastewater filtration and reuse, native xeriscaping, urban ecology, and environmental justice projects in the US and internationally. Many of her team projects have achieved LEED Platinum, Living Building Challenge and SITES certifications. In addition to work in her native state of California, she has also worked extensively in the Chesapeake Bay Watershed while based in Baltimore, MD and in the high desert

## KEY PERSONNEL



southwest while living in Santa Fe, NM.

### **Mari Beltran | ECOLOGICAL DESIGNER**

Mari Beltran is a designer with a background in fine arts who works across multiple mediums. At Watershed Progressive she works on site design and helps develop design aesthetics, documents and educational graphics. She has a Masters in Architecture from the Southern California Institute of Architecture in Los Angeles, CA, where she managed the digital fabrications lab for three years. She has worked with design studios in Los Angeles, and holds a Masters in Latin American Studies from UCLA.

### **Tony Madrone | ENGAGEMENT HUB MANAGER & CONSTRUCTION ADVISOR**

Tony Madrone is a sustainable landscape designer/builder specializing in water intelligent design. With over 20 years of experience in the landscape industry, Tony brings a holistic breadth of knowledge to all of his projects. Tony is a landscape contractor, water sense partner, EPA certified water auditor, and is a board member of ReScape California as well as California Onsite Water Association. Having designed/built/maintained a wide array of ground breaking water management projects throughout the bay area, he carries the skills and understanding to address all water & landscape challenges with impactful solutions. With a passion for water conservation and sustainable business practices, Tony is dedicated to creating a healthier more astute approach to water use.

### **Joe Madden | WATER RESOURCE PROJECT MANAGER**

Joe relocated to Ojai in 2018 to develop and manage water efficiency and reuse projects. Utilizing years of experience designing and building decentralized water treatments in Los Angeles, he thrives on connecting people and their lifestyles with the natural and built systems that they rely on to live. Joe has a deep connection with festivals and events, both professionally and personally. In 2006, he co-founded the green/activist music festival "Chilla Vista" at UCSB, which continues to be a local annual event. He has created green demonstrations and worked with event producers at Bonnaroo Music Festival on waste diversion, composting and other green demonstration pieces. He is an organizer of large camps and rabble-rouser of community into participatory roles at events such as Burning Man, High Sierra

Music Festival, and Davis Whole Earth Festival (to name only a few). Certified Permaculture Designer, Greywater Associate and Installer, EPA Water Sense and Water Harvester.

### **Jen Paludi | WATER RESOURCE PROJECT MANAGER**

Jen provides capacity support in permitting, regional planning initiatives, and everything from project and program conceptualization to completion. As a conservation scientist, wildlife biologist, and habitat restoration practitioner, she understands the full circle of what it takes to create, plan, secure funds for, and successfully implement small-scale to regional-based projects. She has worked both with and for nonprofits, Resource Conservation Districts, technical consultants, private companies and federal agencies.

### **Ryan Evans | WATER RESOURCE PROJECT MANAGER**

As a Project Manager, Ryan brings over ten years of experience in Environmental Field and Water Reuse, Ecological Landscape, Greywater and Rainwater Systems, Stormwater Monitoring and BMP installation, PMA and Food Forest design. He's involved in the construction management and quality control of implementation for water best management practice systems. He holds a Permaculture Design Certification from the Virgin Islands Sustainable Farm Institute.

### **Charles Upton | WATER RESOURCE SPECIALIST**

Charles is an integrated watershed systems expert, ecological designer, and environmental educator. He leverages special skills like natural building, rainwater harvesting, greywater reuse, and holistic management to build soil, landscapes, and community. He has extensive solo travel and work experience in India and the Middle East.

## CLIENT REFERRALS



### **Tuolumne Resource Conservation District**

Lindsay Mattos, *District Manager*

[lindsay@tcrd.org](mailto:lindsay@tcrd.org)

81 N. Washington St. Suite B Sonora, CA 95370

### **Evergreen Lodge**

Lee Zimmerman, *Partner*

(415) 609-2222

30013 Evergreen Road, Yosemite, CA 95321

### **California Conservation Corp**

Meredith Hardy, *Project Development Director*

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