

T-S IRWMA Project Submission Form

In order for a project to be eligible for grant funding the project proponent must be a member in good standing of the T-S IRWM Watershed Advisory Committee (WAC) and have adopted the T-S IRWM Plan.

Projects may be submitted by non-members with the sponsorship of a current member of the T-S IRWMA WAC, who is a member in good standing.

Any project submitted to the T-S IRWMA must entirely COMPLETE the Project Submission Form in order to be added to the T-S IRWM Plan. The T-S IRWMA Administrator may drop a project from consideration if the project's form is not complete.

Projects submitted to the T-S IRWMA must be physically located within the boundaries of the T-S IRWM Region.

Projects submitted to the T-S IRWM Authority are not a part of the T-S IRWM Plan or grant proposals until accepted by the Board of Directors of the Authority.

Project proponents are permitted to contact the media regarding their projects, but are PROHIBITED from commenting on the projects of other members.

For additional information or questions regarding the Project Submission Form please contact T-S IRWMA Administrator Lindsay Mattos at tsirwm@gmail.com.

For access to the T-S IRWM Plan visit: www.tstan-irwma.org

Email address *

lindsay@tcrd.org

Name of Project *

Water Resiliency Project for Landowners

Project Proponent *

Please specify whether your organization is a member or is being sponsored by a member in good standing.

Tuolumne County Resource Conservation District

Project Contact *

Please provide the contact person for your project, their phone number and email.

Lindsay Mattos 2095599066 lindsay@tcrd.org

Revised Projects *

Is this project a revision or update of an existing project within the IRWM plan?

Yes

No

Project Location *

Include county(ies), city(ies), and latitude and longitude if applicable.

TS IRWM Region

Watershed(s) *

Please specify where project will be located.

Upper Tuolumne River, Upper Stanislaus River and Upper Rock Creek watersheds

Updated Urban Water Management Plan (UWMP)

If you are an urban water supplier, do you have a compliant UWMP? Note: 2015 UWMPs are due to be submitted to DWR by July 1, 2016.

Yes

No

Labor Compliance Plan (Requirement for Prop 1 Funding)

Your organization has a Labor Compliance Plan or can develop a Labor Compliance Plan prior to implementation.

Yes

No

Contaminant Information

Does your project address any of the following contaminants?

Nitrates

Perchlorate

Arsenic

Selenium

Hexavalent Chromium

Mercury

Uranium

California Conservation Corps (CCC)

Have you consulted CCC in regards to your project? Or a certified community conservation corps?

Yes

No

Project Description *

A summary description including goals and objectives.

The proposed project would be an expansion of a program through TCRCD's current Water Conservation Program that promotes water use efficiency and climate resilience through community rainwater harvesting and stormwater management projects. Water Resiliency Project for Landowners (WRPL) utilizes volunteer labor and rebates in combination with the professional design services of partner Watershed Progressive to provide design and build services at a minimal cost to landowners within the region. Elements provided by the WRPL include free consultation, planning, technical expertise, construction guidance, educational presentations, and material sourcing/ delivery. The landowner provides a work crew of 10 friends, family, and neighbors, the location/ project site, and material costs (some costs are reimbursable through rebates). Under the current WRPL, landowners in TCRCD's service area can apply to host a greywater or rainwater harvesting workshop on their property. If accepted into the program, landowners receive professional water system design and project management expertise to install the system. Workshop hosts are responsible for helping to finding volunteers to help install the system and are responsible for paying for any material or permitting costs.

Program participants are introduced to rainwater, stormwater, native plant landscaping, and greywater to help create informed and responsible water use choices. Both programs result in demonstration sites that model proper installation of rainwater catchment, water efficient landscapes, Low Impact Development (LID) stormwater management and greywater reuse. Demonstration sites showcase proven technologies for reduced water consumption and increased water quality and water storage.

Project Physical Benefits *

Does your project address any of the following physical benefits? If so, please provide a brief description of the measurable accomplishments in the follow up questions.

- Water Supply
- Water Quality
- Ecosystem Improvement
- Energy Produced/Saved and Greenhouse Gases Avoided

Water Supply

Amount of water supply produced, saved, or recycled?

Stormwater and rainwater treatments implemented through this project will capture and reuse storm and rainwater. During site planning potential capacity available for rainwater capture and reuse will be identified. Implementation of rain and stormwater treatments will reduce use of local water supply and groundwater for nonpotable uses, enhancing local water supplies beyond their current state. Water conserved and potential infiltration and groundwater recharge can be quantified once site plans are developed.

Water Quality

Types (constituents) and amounts of water quality improvement provided, and the amount of water treated or improved.

BMPS utilized through this project provide water quality benefits. Depending on the treatment and site-specific needs, proper management of stormwater will reduce what would have otherwise been nuisance stormwater runoff, thereby reducing nutrient, pollutant, and sediment loading associated with storm events.

Ecosystem Improvement

Types and amounts of environmental benefits provided, such as types of species and their numbers benefited, acreage of habitat or floodplain improved, restored or protected, amount of flow provided, or habitat units restored or protected. If a Habitat Evaluation Procedure has been performed, provide information from that analysis.

Energy and Greenhouse Gases

Amount of energy produced or saved, and amount of greenhouse gases that can be avoided.

Disadvantage Community (DAC)

Does the proposed project directly impact a disadvantage community? Is it within a Place, Tract or Block Group? or does your organization have an income survey to show DAC status? Please check all that apply. (For more information and map tool visit http://www.water.ca.gov/irwm/grants/resources_dac.cfm)

- DAC Place
- DAC Tract
- DAC Block Group
- Income Survey has been conducted.

Economically Distressed Areas (EDA)

Does the proposed project directly impact an Economically Distressed Area? Please check all that apply. (For more information visit <https://gis.water.ca.gov/app/edas/>)

- Rural County
- Unemployment - Place
- Unemployment - County
- Low Population Density - Block Group
- Low Population Density - Tract
- Low Population Density - Place
- Low Population Density - County
- Municipality - Block
- Municipality - Tract
- Municipality - Place

T-S IRWM Plan Objectives *

Please check each objective that the proposed project meets. Descriptions will be detailed in the "Purpose and Need" section that follows.

- Ensure water consumers have access to a clean and safe water supply within the region.
- Improve water supply infrastructure wherever it is deteriorating or causing water quality and system reliability issues, prioritizing DACs and populated areas. (e.g. fireflow, contamination, etc.).
- Reduce contamination in groundwater, surface water, water conveyance and storage systems.
- Improve wastewater infrastructure to meet discharge and disposal requirements and to reduce sanitary sewer overflows.
- Enhance watershed health and resiliency to increase sustainable water yield, ecosystem function and recreational opportunities.
- Improve the condition and ecosystem function and value of meadows, forests, and rangelands.
- Assist in the protection and recovery of native aquatic and other water dependent species, prioritizing sensitive special status, threatened and endangered, rare and unique, and culturally sensitive.
- Restore, preserve, and promote the regeneration of wetlands, springs, fens, vernal pools, and native riparian communities, and reduce invasive species.
- Reduce the risk of localized flooding, and improve stormwater management and retention.
- Improve energy efficiency of water/wastewater systems.
- Improve water supply efficiency and reliability of man-made conveyance systems.
- Increase water conservation strategies and water use efficiency (WUE) by both municipal (residential and commercial) and agricultural end users.
- Develop sufficient reliable and affordable water supplies and infrastructure to meet regional demands of existing and projected water supply needs including multi-year drought and climate change.
- Integrate land use and natural resource planning to support watershed protection actions

that restore, sustain and enhance watershed functions.

- Assess, plan, and prepare for natural disaster impacts that affect watersheds and water resources.
- Protect and preserve tribal watershed values and water use.

Program Preferences

Please check each preference your project meets. (Proposition 1, 2016 IRWM Program Guidelines)

- Leverage Funds – Give priority to projects that leverage private, federal, or local funding or produce the greatest public benefit.**
- Employ New and Innovative Technology or Practices – Give special consideration to projects that employ new or innovative technology or practices, including decision support tools that support the integration of multiple jurisdictions, including, but not limited to, water supply, flood control, land use, and sanitation.**
- Implement IRWM Plans with Greater Watershed Coverage – Give priority to projects in IRWM Plans that cover the greater portion of the watershed.**
- Multiple Benefits – Give special consideration to projects that achieve multiple benefits.**

Proposition 1 Eligible Project Type

Please check the description your project meets. Must check at least one to be eligible for IRWM Prop 1 funding. (Proposition 1, 2016 IRWM Program Guidelines)

- Water reuse and recycling for non-potable reuse and direct and indirect potable reuse
- Water-use efficiency and water conservation
- Local and regional surface and underground water storage, including groundwater aquifer cleanup or recharge projects
- Regional water conveyance facilities that improve integration of separate water systems
- Watershed protection, restoration, and management projects, including projects that reduce the risk of wildfire or improve water supply reliability
- Conjunctive use of surface and groundwater storage facilities
- Water desalination projects
- Decision support tools to model regional water management strategies to account for climate change and other changes in regional demand and supply projections
- Improvement of water quality, including drinking water treatment and distribution, groundwater and aquifer remediation, matching water quality to water use, wastewater treatment, water pollution prevention, and management of urban and agricultural runoff
- Regional projects or programs as defined by the IRWM Planning Act (Water Code §10537)

Proposition 1 Eligible Project Type: Storm Water Resource Management

Please check the description your Storm Water project meets. (Proposition 1, 2016 IRWM Program Guidelines) *If your project is a Storm Water project for inclusion in the T-Stan Storm Water Project List please also complete Section 2 of this Form.

- Projects to reduce, manage, treat, or capture rainwater or stormwater
- Projects that provide multiple benefits such as water quality, water supply, flood control, or open space
- Decision support tools that evaluate the benefits and costs of multi-benefit stormwater projects
- Projects to implement a stormwater resource plan developed in accordance with Part 2.3 (commencing with Section 10560) of Division 6 including Water Code § 10562

Statewide Priorities: Make Conservation a California Way of Life

(For Statewide Priorities answer "yes" or "no" to whether your project meets any or part of the priority.) Building on current water conservation efforts and promoting the innovation of new systems for increased water conservation, Expand agricultural and urban water conservation and efficiency to exceed SB-X7-7 targets, Provide funding for conservation and efficiency, Increase water sector energy efficiency and greenhouse gas reduction capacity, Promote local urban conservation ordinances and programs.

- Yes
- No

Statewide Priorities: Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government

Ensure water security at the local level, where individual government efforts integrate into one combined regional commitment where the sum becomes greater than any single piece, Support and expand funding for Integrated Water Management planning and projects, Improve land use and water alignment, Provide assistance to disadvantaged communities, Encourage State focus on projects with multiple benefits, Increase the use of recycled water.

- Yes
- No

Statewide Priorities: Achieve the Co-Equal Goals for the Delta

This action is directed towards State and federal agencies; however, consideration will be afforded to eligible local or regional projects that also support achieving the co-equal goals providing a more reliable water supply for California and to protect, restore, and enhance the Delta ecosystem.

Yes

No

Statewide Priorities: Protect and Restore Important Ecosystems

Continue protecting and restoring the resiliency of our ecosystems to support fish and wildlife populations, improve water quality, and restore natural system functions, Restore key mountain meadow habitat, Manage headwaters for multiple benefits, Protect key habitat of the Salton Sea through local partnership, Restore coastal watersheds, Continue restoration efforts in the Lake Tahoe Basin, Continue restoration efforts in the Klamath Basin, Water for wetlands and waterfowl, Eliminate barriers to fish migration, Assess fish passage at large dams, Enhance water flows in stream systems statewide.

Yes

No

Statewide Priorities: Manage and Prepare for Dry Periods

Effectively manage water resources through all hydrologic conditions to reduce impacts of shortages and lessen costs of state response actions. Secure more reliable water supplies and consequently improve drought preparedness and make California's water system more resilient, Revise operations to respond to extreme conditions, Encourage healthy soils.

Yes

No

Statewide Priorities: Expand Water Storage Capacity and Improve Groundwater Management

Increase water storage for widespread public and environmental benefits, especially in increasingly dry years and better manage our groundwater to reduce overdraft, Provide essential data to enable Sustainable Groundwater Management, Support funding partnerships for storage projects, Improve Sustainable Groundwater Management, Support distributed groundwater storage, Increase statewide groundwater recharge, Accelerate clean-up of contaminated groundwater and prevent future contamination.

Yes

No

Statewide Priorities: Provide Safe Drinking Water for All Communities

Provide all Californians the right to safe, clean, affordable and accessible water adequate for human consumption, cooking, and sanitary purposes, Consolidate water quality programs, Provide funding assistance for vulnerable communities, Manage the supply status of community water systems. Additionally, as required by Water Code §10545, in areas that have nitrate, arsenic, perchlorate, or hexavalent chromium contamination, consideration will be given to grant proposals that included projects that help address the impacts caused by nitrate, arsenic, perchlorate, or hexavalent chromium contamination, including projects that provide safe drinking water to small disadvantaged communities.

Yes

No

Statewide Priorities: Increase Flood Protection

Collaboratively plan for integrated flood and water management systems, and implement flood projects that protect public safety, increase water supply reliability, conserve farmlands, and restore ecosystems, Improve access to emergency funds, Better coordinate flood response operations, Prioritize funding to reduce flood risk and improve flood response, Encourage flood projects that plan for climate change and achieve multiple benefits.

Yes

No

Statewide Priorities: Increase Operational and Regulatory Efficiency

This action is directed towards State and federal agencies; however, consideration will be afforded to eligible local or regional projects that also support increased operational of the State Water Project or Central Valley Project.

Yes

No

Purpose and Need *

A description of the purpose and need of the Proposal Project and how it addresses the adopted IRWM Plan's goals and objectives, Program Preferences and Statewide Priorities. Additionally, if the proposed project is for Operations and Maintenance describe why grant funds would be necessary to finance the project.

The proposed project will promote and implement water use efficiency measures on a regional scale that will increase water capture and reuse improving regional water resiliency.

Aggregated regional water storage on a community level will have a cumulative net benefit to available water supply within the Region. The project will also help to improve regional water quality and increase education on water use efficiency.

Integrated Elements of Project *

A description of synergies or linkages between projects that result in added value or require coordinated implementation or operation. Integration can be with current projects that are being implemented, proposed projects, existing projects, etc.

The proposed project is an expansion of TCRCD's currently funded Water Conservation Program and leverages past education and outreach efforts led by the Tuolumne River Trust for previously funded "Watershed Outreach, Stewardship, and Water Efficiency Incentives" (IRWM project no. 22).

Existing Data and Studies *

A brief discussion of the data that have been collected and studies that have been performed that support the project(s) site location, feasibility, and technical methods.

The proposed project was developed out of the Water Conservation Program and has already been utilized to implement BMPs at almost a dozen residencies and commercial properties. This has given TCRCD the opportunity to work out any issues that might arise during implementation.

Local Planning Documents *

Cite the local planning documents that support the proposed project.

TS IRWM Plan

Readiness to Proceed: CEQA/NEPA/Permits *

Status of California Environmental Quality Act (CEQA)? Status of National Environmental Policy Act (NEPA)? Status of local, state, and federal permitting requirements?

Project is designed to streamline/ minimize permitting and many elements will qualify for an exemption.

Readiness to Proceed: Capacity *

Capacity of proponent to carry out the proposed project? Status of necessary authority and approvals to implement the proposed project?

TCRCD and partner Watershed Progressive are currently implementing the proposed project.

Readiness to Proceed: Feasibility/Design *

Feasibility analysis for the proposed project? Status of necessary engineering, designs, blueprints, and work plans?

Each site within the program has site specific plans developed.

Cost and Schedule: Project Costs *

Please provide all anticipated project cost.

The proposed project is scalable based on available funding.

Cost and Schedule: Matching Funds *

Potential Sources of Project Funding? (Including internal funding.) Potential Sources of Local Match? (Local match required unless project qualifies for a Disadvantaged Communities Waiver.)

The proposed project has match for each project site in the form of volunteer labor and material costs.

Cost and Schedule: Schedule *

Please include a start and completion date for each project stage. Project stages include: Earliest Start Date, Conceptual, Planning, Environmental, Permitting, Design, Construction/Implementation

TCRCD and partner Watershed Progressive are currently implementing the proposed project.

Cost and Schedule: Timing and Phasing

If the proposed project(s) is part of a multi-phased project complex, provide a description that demonstrates that the proposal can operate on a standalone basis, i.e., can be fully functional without implementation of the subsequent projects.

Cost and Schedule: Completed Work *

A description of the work that has been completed or is expected to be completed prior to the grant award date. For example, if CEQA/NEPA and other environmental compliance efforts have been completed discuss the environmental determination made by the lead agency and the documents that were filed.

Initial planning for the project has been completed.

Storm Water Project *

Is the project being submitted a Storm Water Project? If yes please answer the questions in Section 2 of the Project Submission Form.

Yes

No

Storm Water Project Submission

This additional section of the T-S IRWMA Project Submission Form is for Storm Water Projects. If your project is NOT a Storm Water Project you do not need to complete this section of the Form.

Area Effected by Project

Please provide a description of the Size of Area Directly Effected and the Size of Area Indirectly Effected (Larger area indirectly affected downstream or down slope.) Please provide measurements in sq. ft.

Impact of Project on Region

Number of People Effected by Project?

Impact of Project on Region: Health and Safety

Please provide a description and the value (\$) of health, repair or emergency response events alleviated by this project.

Impact of Project on Region: Flooding

Please describe how the project alleviates flooding impacts (Value to repair multiplied by the number of occurrences of flooding events.)

Water Quality & Quantity Impacts

Impact to Surface Water Quality (Targeted percent reductions of pathogen, sediment, nutrient or toxin loading in surface waters.) Please provide percent reduction.

Water Quality & Quantity Impacts

Potable Water Savings (Quantity of potable water supply offset by project proposal.) Please provide annual gallons saved.

Water Quality & Quantity Impacts

Infiltration and Groundwater Recharge Potential (Quantity expected to be infiltration to subsurface or groundwater potentials.) Please provide gallons to be infiltrated or recharged.

Water Quality & Quantity Impacts

Impact to Impervious Surfaces (Area of impervious surface removal.) Please provide sq. ft. of impact.

Environmental Impacts

Top Soil Loss Reduction (Quantity annually retained on native slopes.) Please provide cu. yds. of reduction.

Environmental Impacts

Habitat Generation or Restoration (Area of project site that will generate or restore native habitat.) Please provide sq. ft. of habitat.

Environmental Impacts

Ambient Temperature Mitigation (Reduction of heat island effect in targeted temperature decrease.) Please provide temperature.

Effectiveness of Project

Project Integration (Number of integrated benefits of implementation of project proposal.)

Effectiveness of Project

Resiliency of Project (Number of adaptive strategies in project proposal that provide durability and effectiveness for catastrophic events.)

Effectiveness of Project

Education/Demonstrative Potential (Public outreached annually.)

Effectiveness of Project

Leverage of Funding (dollars leveraged)

Effectiveness of Project

Monitoring and Evaluation Techniques (Review committee score of study design and length of monitoring techniques.)

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