Project Template

Please provide information in the tables below:

I. Project Proponent Information

Agency/ Organization	Town of Truckee
Name of Primary Contact	Jessica Thompson
Name of Secondary Contact	Dan Wilkins
Mailing Address	10183 Truckee Airport Road, Truckee, CA 96161
E-mail	jthompson@townoftruckee.com
Phone (###)###-####	530-582-2938
Other Cooperating Agencies/Organizations/Stakeholders	Placer County, Truckee River Watershed Council
Is your agency/organization committed to the project through completion? If not, please explain	Yes

II. General Project Information

Project Title	Water Quality Monitoring	
Project Category	☐ **Water Supply/Wastewater** ☐ **Restoration** ☑ **Storm Water/Flood Control**	
Project Description (Briefly describe the project, in 300 words or less)	The proposed project will continue implementation of the Truckee River Water Quality Monitoring Plan (TRWQMP) and the adaptive management developed during implementation of the program. The Town and Placer County developed the TRWQMP jointly in 2008 and have been implementing the program since 2009. Monitoring provides information for future land use planning, prioritizing areas that would benefit the most from BMPs, and general trends in the health of the watershed. Monitoring is performed as part of the Town's Small Phase 2 NPDES permit and the Middle Truckee River TMDL compliance.	
Project Prioritization:	**Total number of projects submitted by your Agency:**	**8**
	Agency Prioritization of this project (e.g., 3 of 5)	**4**
Does this project contribute to a larger Project (e.g., TMDL, EIP, Phase 2 of 3) ? If so provide description.	Yes. The TRWQMP implementation contributes to compliance with the Middle Truckee River TMDL, which is impaired for sediment. Reducing pollutant loads to the Truckee River is a requirement of the Phase 2 MS4 permit for Truckee and the TMDL requirements that are included in the permit. Monitoring provides information for future land use planning and prioritization of projects that would install BMPS that provide pollutant load reduction to sediment, and other pollutants such as heavy metals, oil, and grease.	

Political Support – List related MOUs, agreements or TACs currently in place.	
Project Location:	
Latitude:	39.27222
Longitude:	-120.20595
Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):	Monitoring occurs in and around the Town of Truckee, including Truckee River, Trout Creek, Donner Creek, Donner Lake, Cold Stream, Prosser Creek, Martis Creek or other waterways in Town as conditions change or monitoring indicates.

III. Plan Objectives Addressed

For each of the objectives addressed by the project, provide a one to two sentence description of how the project contributes to attaining the objective and how the project will be quantified. If the project does not address any of the draft IRWM plan objectives, provide a one to two sentence description of how the project relates to a challenge or opportunity of the Region (see the bottom of page 4).

Objectives:	**Will the project address the objective?**	**Brief explanation of project linkage to selected Objective**	**Quantification** (e.g. acres of streams/wetlands restored or enhanced)
WQ1 - Meet approved TMDL standards in accordance with the attainment date, and participate in the development of future TMDLs.	☑ Yes ☐ N/A	The TRWQMP was designed and is implemented in accordance with the Middle Truckee River TMDL. Priority pollutants are monitored.	All 34 square miles within the Town limits are within the Truckee River Watershed and therefore contribute to the TMDL and is monitored.
WQ2 – Reduce pollutant loads by implementing measures such as stormwater LID retrofits, erosion control/restoration to meet Water Quality Objectives (WQOs) for receiving water bodies established in the Basin Plan within the planning horizon.	☑ Yes ☐ N/A	Monitoring helps identify priority areas that are contributing the most pollutant load. This information is then used to guide capital improvement projects and land use decisions to reduce pollutants and monitor effectiveness.	Pollutant load would be monitored before and after project implementation to determine load reduction.

Objectives:	**Will the project address the objective?**	**Brief explanation of project linkage to selected Objective**	**Quantification** (e.g. acres of streams/wetlands restored or enhanced)
WQ3 - Implement water quality monitoring programs through planning horizon, and coordinate annually throughout the Region.	☑ Yes ☐ N/A	The TRWQMP was developed with Placer County for the Middle Truckee River region. The plan is coordinated annually and other monitoring efforts that are conducted within the region are taken into account and coordinated.	34 square miles within the Truckee limits are monitored.
WQ4 - Ensure that drinking water supplied by public water systems continues to meet Federal and State standards.	☐ Yes ☑ N/A		
WQ5 - Restore degraded streams, wetlands, riparian and upland areas to re-establish natural water filtering processes.	☐ Yes ☑ N/A		
WQ6 -Operate and maintain, build, or replace infrastructure for reliable collection, treatment and disposal of wastewater.	☐ Yes ☑ N/A		
WS1 - Provide water supply to meet projected demands for a 20-year planning horizon.	☐ Yes ☑ N/A		
WS2 - Operate and maintain, build, or replace infrastructure to reliably supply water.	☐ Yes ☑ N/A		
WS3 - Implement and promote water conservation measures and practices to meet state goals.	☐ Yes ☑ N/A		
GWM1 - Maintain and monitor groundwater supply to assure future reliability.	☐ Yes ☑ N/A		

Objectives:	**Will the project address the objective?**	**Brief explanation of project linkage to selected Objective**	**Quantification** (e.g. acres of streams/wetlands restored or enhanced)
GWM2 - Promote groundwater protection activities for high quality groundwater, and advocate for improvements to impacted groundwater quality through public education.	☐ Yes ☑ N/A		
GWM3 - Manage groundwater for multiple uses (e.g. municipal/industrial/agricultural supply and environmental use).	☐ Yes ☑ N/A		
ER1 - Enhance and restore water bodies, wetlands, riparian areas and associated uplands to support healthy watersheds, viable native fish, wildlife and plant habitats.	☐ Yes ☑ N/A		
ER2 - Develop and implement programs to prevent the spread of existing invasive species and colonization of potential future invasive species.	☐ Yes ☑ N/A		
ER3 - Implement, in coordination with public and private landowners, activities to manage forest health and wildfire risks.	☐ Yes ☑ N/A		
ER4 - Minimize ecosystem impacts caused by existing and new development.	☑ Yes ☐ N/A	Data from monitoring is used to make decisions regarding implementation of capital improvement projects, condition new development projects, and make other land use decisions. The primary pollutant of concern is sediment, which impacts the cold water fish and endangered Lahontan Cutthroat Trout.	34 square miles of watershed.

Objectives:	**Will the project address the objective?**	**Brief explanation of project linkage to selected Objective**	**Quantification** (e.g. acres of streams/wetlands restored or enhanced)
IWM1 - Conduct local and regional water-related planning activities within the planning horizon as supported by current and future watershed science.	☑ Yes ☐ N/A	Data from monitoring is used to make decisions regarding implementation of capital improvement projects, condition new development projects, and make other land use decisions. The monitoring effort is coordinated with other entities including Placer County and Truckee River Watershed Council.	34 square miles of watershed, 10 miles of Truckee River main stem.
IWM2 - Ensure collaboration among multiple jurisdictions within the Region for information exchange.	☑ Yes ☐ N/A	Truckee has collaborated with Placer County for development of the TRWQMP and Truckee River Watershed Council to fill in the gaps of the monitoring in the region and provide a coordinated approach. Placer County and Truckee Monitoring data is publicly available in a joint annual report and provided on the TRIG website and the State database CEDEN if the type of monitoring data is supported.	34 square miles of watershed.
IWM3 - Increase public education and awareness of watershed functions, protection and restoration needs to encourage stewardship by the public.	☑ Yes ☐ N/A	Data is publicly available. Data provides information on watershed health and improvement.	
IWM4 - Promote activities that reduce flood risk.	☐ Yes ☑ N/A		
IWM5 - Address climate change (e.g. water quality, water supply, groundwater recharge, flood management) in local and regional planning efforts and support efforts to continue improving the science.	☑ Yes ☐ N/A	Provides water quality data trends over time and data helps prioritize and direct land use planning decisions.	34 square miles of watershed.

Objectives:	**Will the project address the objective?**	**Brief explanation of project linkage to selected Objective**	**Quantification** (e.g. acres of streams/wetlands restored or enhanced)
IWM6 - Monitor water storage, release and exchange activities in order to improve coordination with regional planning.	☐ Yes ☑ N/A		

If no objectives are addressed; describe how the project relates to a challenge or opportunity of the Region:

Project Impacts and Benefits

Please provide a summary of the expected project benefits and impacts in the table below or check N/A if not applicable; **do not leave a blank cell**.

If applicable describe benefits or impacts of the project with respect to:		
a. Native American Tribal Community considerations.	☐ N/A	The Truckee River terminates in Pyramid Lake, located within the Pyramid Lake Paiute Tribe Reservation. Reductions in sediment loads benefit this as well as the fisheries including Lahontan Cutthroat Trout.
b. Disadvantaged Community considerations[1].	☑ N/A	
c. Environmental Justice [2] considerations.	☑ N/A	
d. Assist the Region in adapting to effects of climate change[3].	☐ N/A	Data collected helps identify trends in water quality due to rainfall, erosion, flooding, or other events.
e. Generation or reduction of greenhouse gas emissions (e.g. green technology).	☑ N/A	
f. Other expected impacts or benefits that are not already mentioned elsewhere.	☑ N/A	

1. A Disadvantaged Community is defined as a community with an annual median household (MHI) income that is less than 80 percent of the Statewide annual MHI. A map has been provided with the Project Template Instruction for reference.
2. Environmental Justice is defined as the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation and enforcement of environmental laws, regulations and policies. An example of environmental justice benefit would be to improve conditions (e.g. water supply, flooding, sanitation) in an area of racial minorities
3. Climate change effects are likely to include increased flooding, extended drought, and associated secondary effects such as increased wildfire risk, erosion, and sedimentation.

IV. Resource Management Strategies (RMS)

For each resource management strategy employed by the project, provide a one to two sentence description in the table below of how the project incorporates the strategy. A description of the Resource Management Strategies can be found in Volume 2 of the 2009 California Water Plan here: http://www.waterplan.water.ca.gov/cwpu2009/index.cfm

Resource Management Strategy	**Will the Project incorporate RMS?**	**Description, of how RMS to be employed if applicable**
Reduce Water Demand		
Agricultural Water Use Efficiency	☐ Yes ☑ No	
Urban Water Use Efficiency	☐ Yes ☑ No	
Improve Operational Efficiency and Transfers		
Conveyance - Regional / local	☐ Yes ☑ No	
System Reoperation	☐ Yes ☑ No	

Resource Management Strategy	Will the Project incorporate RMS?	Description, of how RMS to be employed if applicable
Water Transfers	☐ Yes ☑ No	
Increase Water Supply		
Conjunctive Management & Groundwater	☐ Yes ☑ No	
Desalination	☐ Yes ☑ No	
Precipitation Enhancement	xNo	
Recycled Municipal Water	☐ Yes ☑ No	
Surface Storage -- Regional / Local	☐ Yes ☑ No	
Improve Water Quality		
Drinking Water Treatment and Distribution	☐ Yes ☑ No	
Groundwater and Aquifer Remediation	☐ Yes ☑ No	
Matching Water Quality to Use	☐ Yes ☑ No	
Pollution Prevention	☑ Yes ☐ No	Data collected helps identify high pollutant load areas. Pollutant load reduction can then be implemented by education, capital improvement projects, or other methods of pollutant reduction.
Salt and Salinity Management	☐ Yes ☑ No	
Urban Runoff Management	☑ Yes ☐ No	Data collected helps identify high pollutant load areas. Pollutant load reduction can then be implemented by education, capital improvement projects, or other methods of pollutant reduction.
Practice Resources Stewardship		
Agricultural Lands Stewardship	☐ Yes ☑ No	
Economic Incentives (Loans, Grants, and Water Pricing)	☑ Yes ☐ No	Data collected helps identify high pollutant load areas. Pollutant load reduction can then be implemented by education, capital improvement projects, or other methods of pollutant reduction. Data collected helps support grant requests.
Ecosystem Restoration	☑ Yes ☐ No	Data collected helps identify high pollutant load areas. Pollutant load reduction can then be implemented by education, capital improvement projects, or other methods of pollutant reduction. Data collected helps support grant requests.
Forest Management	☐ Yes ☑ No	
Land Use Planning and Management	☑ Yes ☐ No	Data collected helps identify high pollutant load areas. Pollutant load reduction can then be implemented by education, capital improvement projects, or other methods of pollutant

Resource Management Strategy	Will the Project incorporate RMS?	Description, of how RMS to be employed if applicable
		reduction. Data collected helps support grant requests.
Recharge Areas Protection	☐ Yes ☑ No	
Water-dependent Recreation	☐ Yes ☑ No	
Watershed Management	☑ Yes ☐ No	Data collected helps identify high pollutant load areas. Pollutant load reduction can then be implemented by education, capital improvement projects, or other methods of pollutant reduction. Data collected helps support grant requests.
Improve Flood Management		
Flood Risk Management	☐ Yes ☑ No	

Note: The following RMS have been omitted from the list: Conveyance-Delta and Surface Storage – CALFED.

Other RMS addressed and explanation:

V. Project Cost and Financing - Please provide any estimates of project cost, sources of funding, and operation and maintenance costs, as well as, the source of the project cost in the table below.

a. Project Costs	Requested Grant Amount	Cost Share: Non-State Fund Source (Local/Federal Funding Match)	Cost Share: Other State Fund Source	Total Cost
1. Capital (2013 Dollars)	625,000	$Available as needed OR ☐ DAC		625,000 / 5 years
2. Annual Operations and Maintenance (O&M)				
b. Can the Project be phased?	☑ Yes	☐ No		
1. If so provide cost breakdown by phase(s)	Project Cost	O&M Cost	Description of Phase	
Phase 1	125,000		Any portion of the monitoring program can be reduced or tailored to fit the available funding. A minimum of $35,000/year is required to implement portions of the program each year.	
Phase 2	125,000		Any portion of the monitoring program can be reduced or tailored to fit the available funding. A minimum of $35,000/year is required to implement.	
Phase 3	125,000		Any portion of the monitoring program can be reduced or tailored to fit the available funding. A minimum of $35,000/year is required to implement.	
Phase 4	125,000		Any portion of the monitoring program can be reduced or tailored to fit the available funding. A minimum of $35,000/year is required to implement.	
		Source(s)	Amount	
c. List secured source(s) of funding for Project cost		Prop 84 Round 2	$232,635	
d. List proposed source(s) of unsecured funding and certainty of the sources for Project cost.		General Fund. Certainty is high.	As needed to provide matching funds.	
e. Explain how operation and maintenance costs will be financed for the 25-year planning period for project implementation (not grant funded).		Water quality monitoring is essentially operation and maintenance of the stations, both stations that have been installed and new stations. Stations are removed if funding is not available and equipment can be re-installed as funding is available at a later date. The near continuous stations installed in the Truckee River have been left in place and Town staff has taken over downloading data and monitoring the stations.		

f. Basis for project cost[1] (e.g. conceptual, planning, bid, etc.)	Monitoring has been implemented since 2009. These are actual costs.
g. Has a Cost/Benefit analysis been completed?	☐ **Yes** ☑ **No**
h. Please describe what impact there may be if the project is not funded. (300 words or less)	The Town ended the monitoring that was funded by Prop 84, Round 2 in September 2015. Town staff has taken over monitoring of the installed near continuous monitoring stations to continue to collect data, until additional funding is available. Although we are collecting the data, the Town does not have the resources to analyze the data or produce the annual reports. However, a continuous data set and data that includes normal and high snow years is desirable and valuable. If, in the future, the Town receives additional funding, this data set may be analyzed and evaluated.

1. For the grant application a detailed project cost estimate will need to be provided with the following cost categories; per the IRWM PSP for Round 2, Implementation Grants: Direct Project Administration, Land Purchase/Easement, Planning/Design/Engineering/Environmental Documentation, Construction/Implementation, Environmental Compliance/Mitigation/Enhancement, Construction Administration, Other Costs, and Construction/Implementation Contingency.

VI. Project Status and Schedule -Please provide a status of the project, level of completion as well as a description of the activities planned for each project stage. If unknown enter **TBD**.

Project Stage	Check the Current Project Stage	Completed?	Description of Activities in Each Project Stage	Planned/ Actual Start Date (mm/yr)	Planned/Actual Completion Date (mm/yr)
a. Assessment and Evaluation	☐	xYes ☐ No ☐ N/A			
b. Final Design	☐	xYes ☐ No ☐ N/A			
c. Environmental Documentation (CEQA/NEPA)	☐	xYes ☐ No ☐ N/A			
d. Permitting	☐	xYes ☐ No ☐ N/A			

e. Construction Contracting	☐	xYes ☐ No ☐ N/A			
f. Construction Implementation	X☐	xYes ☐ No ☐ N/A			

Provide explanation if more than one project stage is checked as current status	The TRWQMP provided a framework for monitoring and a starting point. Although the TRWQMP is the 'Final Design', as monitoring continues, monitoring locations and methods are re-evaluated and adjustments made as necessary to adapt to conditions encountered and the data collected.

VIII. Project Technical Feasibility

Please provide any related documents (date, title, author, and page numbers) that describe and confirm the technical feasibility of the project.

a. List the adopted planning documents the proposed project is consistent with or supported by (e.g. General Plans, UWMPs, GWMPs, Water Master Plans, Habitat Conservation Plans, TMDLs, Basin Plans, etc.)	TRWQMP, Truckee General Plan, TMDL for Middle Truckee River, NPDES Permit Small MS4s, Lahontan Basin Plan
b. List technical reports and studies supporting the feasibility of this project	TRWQMP Annual Reports 2009-2015
c. Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less.	Portions of the project have been implemented since 2009. Monitoring includes various types, from visual and field monitoring methods to near continuous stations with well-established monitoring methodology.
d. Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.)	☐ Yes xNo ☐ N/A
1. If so please describe	**Monitoring stations use solar power**
e. If you are an Urban Water Supplier[1]:	
1. Have you completed an Urban Water Management Plan and submitted to DWR?	☐ Yes ☐ No xN/A
2. Are you in compliance with AB1420?	☐ Yes ☐ No xN/A
3. Do you comply with the water meter requirements (CWC §525)	☐ Yes ☐ No xN/A
4. If the answer to any of the questions above is "no", do you intend to comply prior to receiving project funding	☐ Yes ☐ No xN/A Provide Explanation if necessary:
f. If you are an Agricultural Water Supplier[2]:	
1. Have you completed and submitted an AWMP (due 12/31/12)?	☐ Yes ☐ No xN/A
2. If not, will you complete and submit an AWMP prior to receiving project funding?	☐ Yes ☐ No xN/A Provide Explanation if necessary:
g. If the project is related to groundwater:	
1. Has a GWMP been completed and submitted for the subject basin?	☐ Yes ☐ No xN/A
2. If not will a GWMP be completed within 1 year of the grant submittal date?	☐ Yes ☐ No ☑ N/A

1. Urban Water Supplier is defined as a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.
2. Agricultural Water Supplier is defined as a water supplier, either publicly or privately owned, providing water to 10,000 or more irrigated acres, excluding the acreage that receives recycled water.