

Tahoe Sierra IRWM

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	Truckee River Watershed Council, Placer County, Lahontan Regional Water Quality Control Board
Is your agency/organization committed to the project through completion? If not, please explain	Yes

II. General Project Information

Project Title	Town of Truckee Stormwater Management and BMP Retrofits
Project Category	<input type="checkbox"/> Water Supply/Wastewater <input type="checkbox"/> Restoration <input checked="" type="checkbox"/> Storm Water/Flood Control
Project Description (Briefly describe the project, in 300 words or less)	<p>The goal of the project is to improve stormwater quality and the water quality of our rivers, streams, and lakes through installation of drainage treatment on roadway and pedestrian improvement projects along existing legacy sites along the Truckee River Corridor. The project will also incorporate public education and outreach on stormwater pollution and ways to prevent pollution. Areas located within the Truckee River Corridor watershed include the Downtown/Brickelltown area and neighborhoods and roadways that border the Truckee River constructed prior to current stormwater drainage standards. Implementation of the Truckee River Water Quality Monitoring Plan has helped identify high priority areas and sub watersheds. Additional post project monitoring will be included in the projects to help guide and refine future project BMP and LID standards in the area. The Town has retrofit projects within the Truckee River Corridor that will install various stormwater improvements as part of larger projects. All of these projects can be done separately and in any order. The stormwater improvements will only be done as part of the larger project as the stormwater improvements depend on other factors such as existing drainage system tie-ins or replacement or repair, re-contouring existing drainage patterns, land ownership, etc. that are not efficient to be completed without the entire project being implemented. Retrofit projects</p>

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	include: Donner Pass Road Safety Improvements, Brockway Road Widening, Annual Paving and Drainage projects, Old County Corp Yard, Railyard Redevelopment, and Donner Pass Road/Bridge Street/West River Intersection.	
Project Prioritization:	Total number of projects submitted by your Agency:	8
	Agency Prioritization of this project (e.g., 3 of 5)	8
Does this project contribute to a larger Project (e.g., TMDL, EIP, Phase 2 of 3) ? If so provide description.	Yes, Middle Truckee River TMDL implementation, Truckee's Phase 2 NPDES permit, Truckee River Water Quality Monitoring Plan.	
Political Support – List related MOUs, agreements or TACs currently in place.	Stormwater Citizens Advisory Committee	
Project Location:		
Latitude:	Various areas throughout Truckee	
Longitude:	Various areas throughout Truckee	
Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):	Implementation of BMPs and LID retrofit improvements installed in high priority area throughout Town.	

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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The Middle Truckee River TMDL requires reduction of sediment loads to the Truckee River. This project implements BMPs designed to reduce the sediment loads in high priority areas to help achieve this goal.	Pre and post water quality monitoring data.

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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)
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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The project will install BMPs and LID retrofits as part of larger projects to improve water quality and help meet WQOs of the Middle Truckee River.	Pre and post water quality monitoring data.
WQ3 - Implement water quality monitoring programs through planning horizon, and coordinate annually throughout the Region.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Water quality monitoring conducted as part of the TRWQMP helps prioritize areas needing improvements. Monitoring is coordinated with Placer County and Truckee River Watershed Council efforts to reduce redundancy and provide cost effective results. This provides pre water quality monitoring data. As projects are implemented, post data is collected as part of the project implementation.	Pre and post water quality monitoring data
WQ4 - Ensure that drinking water supplied by public water systems continues to meet Federal and State standards.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WQ5 - Restore degraded streams, wetlands, riparian and upland areas to re-establish natural water filtering processes.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Implementation of the project BMPs and LID improvements helps improve the Truckee River watershed by reducing sediment loads and other pollutants related to sediment. Implementation of LID improvements restores the natural filtering processes of the watershed.	Pre and post water quality monitoring data
WQ6 -Operate and maintain, build, or replace infrastructure for reliable collection, treatment and disposal of wastewater.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

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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)
WS1 - Provide water supply to meet projected demands for a 20-year planning horizon.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WS2 - Operate and maintain, build, or replace infrastructure to reliably supply water.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WS3 - Implement and promote water conservation measures and practices to meet state goals.	<input type="checkbox"/> Yes <input type="checkbox"/> N/A		
GWM1 - Maintain and monitor groundwater supply to assure future reliability.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
GWM2 - Promote groundwater protection activities for high quality groundwater, and advocate for improvements to impacted groundwater quality through public education.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
GWM3 - Manage groundwater for multiple uses (e.g. municipal/industrial/agricultural supply and environmental use).	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
ER2 - Develop and implement programs to prevent the spread of existing invasive species and colonization of potential future invasive species.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

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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)
ER3 - Implement, in coordination with public and private landowners, activities to manage forest health and wildfire risks.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
ER4 - Minimize ecosystem impacts caused by existing and new development.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The project would retrofit areas of existing development. Results of the retrofit projects, based on pre and post water monitoring data can also be used to help guide future BMPs and LID improvements in new development.	Pre and post water quality monitoring data.
IWM1 - Conduct local and regional water-related planning activities within the planning horizon as supported by current and future watershed science.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The projects locations are chosen based on water quality monitoring data results. Effectiveness and success of the projects are supported by post water quality monitoring data.	Pre and post water quality monitoring data.
IWM2 - Ensure collaboration among multiple jurisdictions within the Region for information exchange.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The water quality monitoring data used to make decisions on the project locations are a collaborative effort between Placer County, Town of Truckee, and Truckee River Watershed Council. Post water quality monitoring that is implemented as parts of the projects are also parts of this collaborative effort.	Pre and post water quality monitoring data.
IWM3 - Increase public education and awareness of watershed functions, protection and restoration needs to encourage stewardship by the public.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	All projects include public education and outreach, including hands-on projects that schools can help with, education and outreach for the contractor and engineering community, and publicly available data.	Number of attendees and participants at the functions.

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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)
IWM4 - Promote activities that reduce flood risk.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Implementation of the projects increases the natural function of the watershed through infiltration, thereby reducing peak flow and providing additional water storage.	
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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Water quality, groundwater recharge, and flood management are all improved with the project implementation and improved watershed function through the use of BMPs and LID improvements.	Pre and post water quality monitoring data.
IWM6 - Monitor water storage, release and exchange activities in order to improve coordination with regional planning.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

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

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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.	<input type="checkbox"/> N/A	The Truckee River terminates in Pyramid Lake, located within the Pyramid Lake Paiute Tribe Reservation. Reductions in sediment loads benefit this community and the fisheries they depend on including Lahontan Cutthroat Trout.
b. Disadvantaged Community considerations¹.	<input checked="" type="checkbox"/> N/A	
c. Environmental Justice² considerations.	<input checked="" type="checkbox"/> N/A	
d. Assist the Region in adapting to effects of climate change³.	<input type="checkbox"/> N/A	Data collected helps identify trends in water quality due to rainfall, erosion, flooding or other events. Installation of BMPs and LID improvements reduce flood peak flows and improves water quality.
e. Generation or reduction of greenhouse gas emissions (e.g. green technology).	<input type="checkbox"/> N/A	BMP retrofits will include LID practices.
f. Other expected impacts or benefits that are not already mentioned elsewhere.	<input checked="" type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Urban Water Use Efficiency	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Improve Operational Efficiency and Transfers		

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Resource Management Strategy	Will the Project incorporate RMS?	Description, of how RMS to be employed if applicable
Conveyance - Regional / local	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
System Reoperation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Water Transfers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Increase Water Supply		
Conjunctive Management & Groundwater	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Desalination	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Precipitation Enhancement	X NO	
Recycled Municipal Water	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Surface Storage -- Regional / Local	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Improve Water Quality		
Drinking Water Treatment and Distribution	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the implementation of BMPs and LID treatments that treat stormwater runoff.
Groundwater and Aquifer Remediation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Matching Water Quality to Use	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the implementation of BMPs and LID treatments that treat stormwater runoff.
Pollution Prevention	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the implementation of BMPs and LID treatments that treat stormwater runoff.
Salt and Salinity Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the implementation of BMPs and LID treatments that treat stormwater runoff.
Urban Runoff Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the implementation of BMPs and LID treatments that treat stormwater runoff.
Practice Resources Stewardship		
Agricultural Lands Stewardship	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Economic Incentives (Loans, Grants, and Water Pricing)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Ecosystem Restoration	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the implementation of BMPs and LID treatments that treat stormwater runoff.
Forest Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Land Use Planning and Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water monitoring data helps make decisions on project improvement locations and types. Data collected from pre and post projects helps direct future improvements and improve upon standard designs.
Recharge Areas Protection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the implementation of BMPs and LID treatments that treat stormwater runoff.
Water-dependent Recreation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the implementation of BMPs and LID treatments that treat stormwater runoff.

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Resource Management Strategy	Will the Project incorporate RMS?	Description, of how RMS to be employed if applicable
Watershed Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the implementation of BMPs and LID treatments that treat stormwater runoff.
Improve Flood Management		
Flood Risk Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

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

Other RMS addressed and explanation:

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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)	\$3,700,000	\$14,600,000 OR <input type="checkbox"/> DAC	0	18,300,000 / 5 years
2. Annual Operations and Maintenance (O&M)		\$50,000		50,000
b. Can the Project be phased?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
1. If so provide cost breakdown by phase(s)	Project Cost	O&M Cost	Description of Phase	
Phase 1	9,000,000		These projects are ready for construction in 2016 or 2017 and consist of West River Street Bike Lanes/Reconstruction/ Drainage Improvements, Donner Pass Road Safety Improvements, and the Annual Paving and Drainage improvements. All projects can be implemented separately and do not depend on each other for implementation.	
Phase 2	9,300,000		These projects are anticipated for construction in 2018, Riverview Corporation Yard, Old County Corp Yard, and Annual Paving and Drainage Improvements, Brockway Road Widening, as well as public infrastructure for the Railyard redevelopment. All projects can be implemented separately and do not depend on each other for implementation.	
Phase 3				
Phase 4				
c. List secured source(s) of funding for Project cost	Source(s)		Amount	
	Measure A, Measure V, AB 1600, Redevelopment Bond Funds, General Fund, Grant funds, and many others.		\$14,600,000	

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d. List proposed source(s) of unsecured funding and certainty of the sources for Project cost.	N/A	0
e. Explain how operation and maintenance costs will be financed for the 25-year planning period for project implementation (not grant funded).	General Fund through on-going operations costs for Public Works personnel.	
f. Basis for project cost¹ (e.g. conceptual, planning, bid, etc.)	Planning Costs, 2015 Capital Improvement Project budget.	
g. Has a Cost/Benefit analysis been completed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
h. Please describe what impact there may be if the project is not funded. (300 words or less)	Many of the improvements will not be incorporated without funding to improve the drainage/BMPs.	

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	x	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	See explanation below.		
b. Final Design	x	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	See explanation below.		
c. Environmental Documentation (CEQA/NEPA)	x	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	See explanation below.		
d. Permitting	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
e. Construction Contracting	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			

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f. Construction Implementation	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
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Provide explanation if more than one project stage is checked as current status	This project consists of multiple capital improvement projects in the Truckee Town Corridor watershed that will contain stormwater improvements as part of the larger project. All of the projects are either in the planning or design phase, although some are farther along than others. The projects included in this are projected to occur over the next 5 years. The funding requested is for the stormwater improvement portion of each project.
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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.

<p>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.)</p>	<p>Middle Truckee River TMDL, NPDES Phase 2 General Permit, Town of Truckee General Plan.</p>
<p>b. List technical reports and studies supporting the feasibility of this project</p>	<p>Town of Truckee CIP budget FY 2015/16.</p>
<p>c. Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less.</p>	<p>There are many retrofit projects included in this item that will construct BMP and LID improvements to better treat and retain stormwater. All of the projects have a base level of assessment and studies and are supported by water monitoring data. Projects included in 'Phase 1' are in the design phase.</p>
<p>d. Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.)</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p>1. If so please describe</p>	<p>LID and BMPs</p>
<p>e. If you are an Urban Water Supplier¹:</p>	
<p>1. Have you completed an Urban Water Management Plan and submitted to DWR?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
<p>2. Are you in compliance with AB1420?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
<p>3. Do you comply with the water meter requirements (CWC §525)</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
<p>4. If the answer to any of the questions above is "no", do you intend to comply prior to receiving project funding</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
	<p>Provide Explanation if necessary:</p>
<p>f. If you are an Agricultural Water Supplier²:</p>	
<p>1. Have you completed and submitted an AWMP (due 12/31/12)?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
<p>2. If not, will you complete and submit an AWMP prior to receiving project funding?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
	<p>Provide Explanation if necessary:</p>
<p>g. If the project is related to groundwater:</p>	
<p>1. Has a GWMP been completed and submitted for the subject basin?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>

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2. If not will a GWMP be completed within 1 year of the grant submittal date?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
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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.