

**Regional Water Resource Management and Planning
Action Plan**

Action Item	Water Plan Issue (Identified in Chapter 9)	Action Item Title	Description	Near-Term	Intermediate-Term	Long-Term	Ongoing
1.A	Municipal Water Resources in Central Truckee Meadows	TROA Implementation	Continue steps required to implement TROA.				x
1.B	Municipal Water Resources in Central Truckee Meadows	Drought Standard	Review policy 1.2.a "Conjunctive Management of Surface Water and Groundwater Resources to Meet a 9-year Drought Cycle", and revise if necessary.		x		
1.C	Municipal Water Resources in Central Truckee Meadows	Develop Water Supply	TMWA and Washoe County will continue to pursue water supply projects that are economically feasible and that can be implemented to ensure water supplies are available as future demands require.		x		
1.D	Municipal Water Resources in Central Truckee Meadows	Arsenic Compliance	TMWA and Washoe County are presently developing Arsenic Compliance Plans. Compliance strategies may impact off-river reliability goals.	x			
1.E	Municipal Water Resources in Central Truckee Meadows	Hidden Valley Water Treatment Plant	Washoe County Utility Division is evaluating the feasibility and benefits of a surface water / groundwater treatment plant to reduce dependence upon TMWA wholesale supplies, provide treatment on three wells, and increase system reliability.	x			
1.F	Municipal Water Resources in Central Truckee Meadows	Verdi Facility Planning	Ongoing facility and water resource planning is needed to serve anticipated growth in the Boomtown / Verdi area.	x			
4.A	Municipal Water Resources in Cold Springs	Cold Springs Water Facility Plan	Prepare a comprehensive facility plan for the build-out of approved land uses in Cold Springs		x		
4.B	Municipal Water Resources in Cold Springs	Cold Springs / Long Valley Sustainable Yield Analysis	An RWPC approved estimate of the sustainable yield for the Cold Springs / Long Valley region needs to be developed in support of anticipated development in Cold Springs.	x			
5.A	Municipal Water Resources in Spanish Springs	Warm Springs/Dry Valley Spring/Surface Water Resources	Estimate sustainable yield and feasibility of developing Warm Springs and Dry Valley spring and surface water resources held by Washoe County as a potential M&I water resource for Spanish Springs.	x			
6.A	Municipal Water Resources in the Lower Truckee River	East Truckee River Corridor Facility Plan Update	Update to water and wastewater plans for East Truckee Corridor that includes analysis of the approved development potential within the Truckee Meadows Service Areas Boundary		x		

**Regional Water Resource Management and Planning
Action Plan**

Action Item	Water Plan Issue (Identified in Chapter 9)	Action Item Title	Description	Near-Term	Intermediate-Term	Long-Term	Ongoing
6.B	Municipal Water Resources in the Lower Truckee River	Tracy Segment Water Budget	Coordinate with Storey County regarding existing commitments and future potential demands for the entire Tracy Segment hydrographic basin.		x		
6.C	Municipal Water Resources in the Lower Truckee River	Position Statement - Lower Truckee River Treatment Plants	Develop RWPC position statement regarding construction of surface water treatment facilities in the Lower Truckee River.		x		
7.A	Integrated Water Resource Planning in Washoe Valley	Washoe Valley Integrated Resources Management Plan	Develop integrated water resource management plan for Washoe Valley, including water supply, wastewater, flood control and address opportunities to achieve regional resource management goals outside of the basin.		x		
8.A	Reliability of Water Service...Truckee River or Tributaries	Hilton Pond	TMWA to investigate use of Hilton Pond as an emergency water supply alternative in coordination with Glendale Diversion project.	x			
8.B	Reliability of Water Service...Truckee River or Tributaries	TMWA Integration of Emergency Supply Considerations into Facility Planning	TMWA to consider emergency supply recommendations during their ongoing infrastructure and water resource planning.				x
8.C	Reliability of Water Service...Truckee River or Tributaries	Washoe County Procedures During Wholesale Outage	Washoe County management strategies to eliminate or greatly reduce wholesale water demand in the event of a surface water contamination event.	x			
8.D	Reliability of Water Service...Truckee River or Tributaries	South Truckee Meadows Surface Water Protection	Washoe County management strategies to deal with risk of tributary creek contamination for new South Truckee Meadows Water Treatment Facility.	x			
9.A	Water Conservation	Implement Conservation Base Case	Continue to implement conservation measures to achieve Base Case conservation goals.				x
9.B	Water Conservation	Develop Additional Conservation Strategies	Section 8.7 of Chapter 8 includes an extensive listing of additional work that could be undertaken in an effort to expand the suite of available conservation measures.				x
10.A	Wastewater Management in the Central Truckee Meadows	Effluent Disposal Strategies	Continue to evaluate the need to proceed with full implementation of effluent reuse programs, versus other wastewater and water quality management options.				x

**Regional Water Resource Management and Planning
Action Plan**

Action Item	Water Plan Issue (Identified in Chapter 9)	Action Item Title	Description	Near-Term	Intermediate-Term	Long-Term	Ongoing
10.B	Wastewater Management in the Central Truckee Meadows	Decommission Minor Wastewater Treatment Plants	Decommission small wastewater treatment plants within TMWRF service area as Lawton/Verdi Interceptor is extended.	x			
10.C	Wastewater Management in the Central Truckee Meadows	Truckee River Nitrate Reduction Septic Tank Conversions	Investigate and prioritize opportunities for reduction in nitrate loading to Truckee River through sewerage of areas served by septic tanks.			x	
11.A	Wastewater Management in the South Truckee Meadows	Expand STM Effluent Reuse System	Promote and encourage expansion of the effluent reuse system in the South Truckee Meadows, including appropriate changes to current policies.				x
12.A	Wastewater Management in Stead / Lemmon Valley	Evaluate Options to Increase Effluent Discharges to Swan Lake Playa	Washoe County and Reno Drainage and Flood Control Master Plans should be updated to reflect the Regional Plan and planned land uses, and consider project elements that may provide the opportunity to increase discharges beyond 2.0 MGD to the Swan Lake Playa.	x			
12.B	Wastewater Management in Stead / Lemmon Valley	Wastewater Management Planning - Stead / Lemmon Valley	Continue to investigate phased wastewater treatment and disposal options that are consistent with the plans for the region.	x			
13.A	Wastewater Management in Cold Springs	Long-range Management Strategies for Closed Basins	Investigate strategies to manage long-term groundwater quality and the quantity of effluent in closed basins undergoing development.			x	
15.A	Wastewater Management in the Lower Truckee River	Wastewater Facility Planning in Lower Truckee River	Continue to plan and implement wastewater infrastructure as needed to support planned development in Lower Truckee River. Coordinate with Storey County to ensure long-term Truckee River water quality objectives are met.			x	
16.A	Septic Tanks and Water Quality	Septic Tank Conversion Strategy	Establish regional goals and programs for the conversion of septic tanks in areas of concern.	x			
16.B	Septic Tanks and Water Quality	Funding for Septic Tank Conversion	Develop a regional funding mechanism to offset the costs of septic tank conversion both on-site and off-site.	x			
16.C	Septic Tanks and Water Quality	Dry Sewering Policies	Develop regional policies requiring dry sewerage of areas proposed for septic tank installation in advance of the availability of regional wastewater collection infrastructure.	x			

**Regional Water Resource Management and Planning
Action Plan**

Action Item	Water Plan Issue (Identified in Chapter 9)	Action Item Title	Description	Near-Term	Intermediate-Term	Long-Term	Ongoing
16.D	Septic Tanks and Water Quality	Septic Tanks inside TMSA	Develop clear policies on when or whether septic tanks can be installed within the Truckee Meadows Service Areas boundary.	x			
16.E	Septic Tanks and Water Quality	Pilot Testing of On-Site Systems	Pilot testing of advanced treatment on-site systems pending review of results from Oregon Department of Environmental Quality study.	x			
17.A	Watershed Management and Protection	Wellhead Protection Plans	Water purveyor to complete wellhead protection plans.				x
17.B	Watershed Management and Protection	Delineate Recharge Area	Continue to evaluate recharge areas to prioritize and delineate the areas that have the highest recharge value.		x		
17.C	Watershed Management and Protection	LID Manual	Complete Low Impact Development Manual.	x			
19.A	Groundwater Resource Development ... Domestic Wells	Groundwater Resources Data Center	Create a Groundwater Resources Data Center.	x			
19.B	Groundwater Resource Development ... Domestic Wells	Well Mitigation Program	Implement a Domestic Well Mitigation Program.	x			
20.A	Efficient Use of Water Rights	Water Rights Recovery Program	Develop and implement water rights recovery program to convert inactive Truckee River water rights to municipal use.				x
20.B	Efficient Use of Water Rights	Truckee River Sustainability	Continue analysis and develop non-structural measures to improve Truckee River water quality, enable increased TMWRF discharges, and ensure the future sustainability of the river.				x
20.C	Efficient Use of Water Rights	Water / Wastewater Purveyor Water Rights Coordination	Close coordination between water purveyors and wastewater treatment providers to ensure water rights use maximizes region's water resources.				x

**Regional Water Resource Management and Planning
Action Plan**

Action Item	Water Plan Issue (Identified in Chapter 9)	Action Item Title	Description	Near-Term	Intermediate-Term	Long-Term	Ongoing
21.A	Water Resource Linkages to Land Use Planning	Facility Plan Review	Review undeveloped and potential infill areas within the TMSA Boundary for gaps in facility planning and develop plan to respond to changes in land use and changes to the TMSA that affect current facility plans.	x			
21.B	Water Resource Linkages to Land Use Planning	Parcel Based Demand/Flow Projections	Coordinate with other entities on the development of a GIS parcel based tool that can be used to estimate potential water demands and wastewater flows based on approved land use. Identify an entity or entities that would assume responsibility for maintaining the water resource element of the GIS tool.	x			
21.C	Water Resource Linkages to Land Use Planning	Facility Planning Criteria	Develop guidelines and checklists to aid in the development and review of facility plans for conformance with regional water planning policies.	x			
22.A	Consistency in Local Government Drainage Standards	Regionally Adopt Drainage Design Manuals	Adopt regionally developed drainage design manuals by local governments when complete.				x
23.A	Regional Flood Plain Management and Flood Control	Flood Storage Zones 1 and 2 Mitigation and Financing Plan	Complete mitigation and financing plan for Flood Storage Zones 1 and 2.	x			
23.B	Regional Flood Plain Management and Flood Control	Flood Storage Zones Outreach Plan	Develop a public information and outreach program for property owners within Flood Storage Zones 1 thru 4.	x			
23.C	Regional Flood Plain Management and Flood Control	Flood Storage Zones 3 and 4 Mitigation Plan	Develop mitigation options for Flood Storage Zones 3 and 4 as needed.	x			
23.D	Regional Flood Plain Management and Flood Control	Flood Storage Mitigation Modeling Tool	Develop modeling and analysis tools to validate flood storage mitigation efforts.	x			
23.E	Regional Flood Plain Management and Flood Control	Flood Storage Mitigation Resource Manual	Develop a Resource Manual to document findings of Flood Storage Zone analysis.	x			
23.F	Regional Flood Plain Management and Flood Control	Integrate Flood Mitigation Strategies into Development Codes	Propose modifications to local government development codes to incorporate flood storage mitigation strategies.	x			

**Regional Water Resource Management and Planning
Action Plan**

Action Item	Water Plan Issue (Identified in Chapter 9)	Action Item Title	Description	Near-Term	Intermediate-Term	Long-Term	Ongoing
23.G	Regional Flood Plain Management and Flood Control	Threat Recognition Plans	Develop Threat Recognition Plan for areas that could be severely impacted by alluvial fan or flash flooding.			x	
23.H	Regional Flood Plain Management and Flood Control	Flood Storage Mitigation Plans for Closed Basins	Develop Flood Plain Storage Mitigation Plan for areas outside the Truckee River watershed.		x		
23.I	Regional Flood Plain Management and Flood Control	Watershed Based Flood Modeling Tools	Propose modifications of local government development codes requiring the use of watershed based modeling tools to evaluate and mitigate the flood related impacts of changes in the watershed.	x			
23.J	Regional Flood Plain Management and Flood Control	Flood Plain Management for Build-out	Develop hydrologic and hydraulic modeling of existing and build-out conditions for the purposes of flood control for all developing watersheds in Washoe County.				x
23.K	Regional Flood Plain Management and Flood Control	Development Constraints Areas Definition	Suggest changes to "Development Constraint Areas" that reflect the regional flood planning as it relates to flood plain management, water bodies, and drainageways.	x			
23.L	Regional Flood Plain Management and Flood Control	Flood Plain Management Strategy Updates and Adoption	Recommend local government adoption of RWPC Regional Flood Plain Management Strategy after review of modifications that might result from flood storage mitigation planning.		x		
23.M	Regional Flood Plain Management and Flood Control	Community Rating System	Local government participation in the Community Rating System.		x		
23.N	Regional Flood Plain Management and Flood Control	Reduce Recurrent Flood Damages	Develop strategies to reduce flood damages in existing areas not planned for protection by a regional flood control project.		x		
23.O	Regional Flood Plain Management and Flood Control	Alluvial Fan Analysis	Perform analysis of confirmed and suspected alluvial fan areas to 1) determine active alluvial fan hazard areas and 2) modify Flood Insurance Rate Maps as necessary		x		
23.P	Regional Flood Plain Management and Flood Control	Flood Damage Reduction Plans	Develop flood damage reduction plans for: Virginia Foothills, Hidden Valley, Bailey Canyon, Eastside subdivision, Bellevue Ranch area of Washoe Valley, Lower Galena Creek, Silver Lake, Cold Springs, and Swan Lake.				x