

**NORTHERN NEVADA WATER PLANNING COMMISSION
("NNWPC")
AGENDA**

Wednesday, December 7, 2016

1:30 p.m.

Please Note Location Change:
Sparks Council Chambers, Legislative Building
745 Fourth St., Sparks, Nevada

Notes:

1. Items on this agenda on which action may be taken are followed by the term "for possible action". Non-action items are followed by an asterisk (*).
2. Public comment is limited to three minutes per speaker and is allowed during the public comment periods, and before action is taken on any action item. Comments are to be directed to the Commission as a whole. Persons may not allocate unused time to other speakers. The public may sign-up to speak during the public comment period or on a specific agenda item by completing a "Request to Speak" card and submitting it to the clerk.
3. Items on this agenda may be taken out of order, combined with other agenda items for consideration, removed from the agenda, moved to or from the Consent Items section, or delayed for discussion at any time. Arrive at the meeting at the posted time to hear item(s) of interest.
4. Supporting material provided to the Commission for the items on the agenda is available to members of the public at the NNWPC offices, 1001 E. Ninth St., Reno, NV, from Jim Smitherman, Water Resources Program Manager, (775) 954-4657, and on the NNWPC website at <http://www.nnwpc.us>
5. In accordance with NRS 241.020, this agenda closes three working days prior to the meeting. We are pleased to make reasonable accommodations for persons who are disabled and wish to attend meetings. If you require special arrangements for the meeting, please call (775) 954-4657 no later than 24 hours prior to the meeting.
6. In accordance with NRS 241.020, this agenda has been posted at the following locations: Reno City Hall (1 East First Street), Sparks City Hall (431 Prater Way), Sun Valley GID (5000 Sun Valley Blvd.), Truckee Meadows Water Authority (1355 Capital Blvd.), Washoe County Administration Building (1001 E. Ninth Street), South Valleys Library (15650A Wedge Parkway), the NNWPC website: <http://www.nnwpc.us> and the State of Nevada Website: <https://notice.nv.gov>

1. Roll Call and determination of presence of a quorum. *
2. Public Comments. * (Three-minute time limit per person.)
3. Approval of agenda. **(For Possible Action)**
4. Approval of the minutes from the November 2, 2016, meetings. **(For Possible Action)**
5. Presentation of a proposal to update the Truckee Meadows Watershed Management and Protection Plan for Tributaries to the Truckee River, request for \$70,000 from the Regional Water Management Fund ("RWMF") to begin the update process, and possible recommendation to the Western Regional Water Commission("WRWC") to approve the expenditure and execute an interlocal agreement with the City of Reno to complete the initial portion of the update – Theresa Jones, P.E., City of Reno. **(For Possible Action)**.
6. Presentation on the Nevada Integrated Source Water Protection Program and possible recommendation to the WRWC to approve a letter requesting participation in the program for the Washoe County geographic planning area – Kim Borgzinner and Birgit Henson, Nevada Division of Environmental Protection. **(For Possible Action)**

Northern Nevada Water Planning Commission Agenda for December 7, 2016

7. Discussion and possible direction to staff regarding review and possible revisions to the “Issues and Action Plan” chapter for inclusion in the 2016 Regional Water Management Plan ("RWMP") update – Jim Smitherman, NNWPC Water Resources Program Manager. **(For Possible Action)**
8. Review, discussion and possible direction to staff regarding the draft Regional Water Balance for possible inclusion in the “Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow” chapter of the 2016 RWMP update – Jim Smitherman. **(For Possible Action)**
9. Review, discussion and possible revision of draft Policy 1.2.a of the "Regional Water Planning Policies and Criteria" chapter of the 2016 RWMP update, concerning conjunctive management of water supplies to withstand a 9-year drought cycle – Jim Smitherman. **(For Possible Action)**
10. Discussion and possible direction to staff regarding any chapters of the RWMP previously reviewed by the NNWPC in relation to the 2016 RWMP update – Jim Smitherman. **(For Possible Action)**
11. Program Manager’s Report – Jim Smitherman. *
 - a. Report on the status of projects and Work Plan supported by the RWMF;
 - b. Financial Report on the RWMF.
12. Discussion regarding location and possible agenda items for the January 4, 2017 NNWPC meeting, and other future meetings, and possible direction to staff – Jim Smitherman. **(For Possible Action)**
13. Commission comments. *
14. Staff comments. *
15. Public Comments. * (Three-minute time limit per person.)
16. Adjournment. **(For Possible Action)**

*Indicates a non-action item

DRAFT - MINUTES
NORTHERN NEVADA WATER PLANNING COMMISSION

Wednesday, November 2, 2016

The regular meeting of the Northern Nevada Water Planning Commission ("NNWPC") was held in the Sparks Council Chambers, Legislative Building, 745 Fourth Street, Sparks, Nevada and conducted the following business:

The meeting was called to order by Vice Chair Henderson at 1:30 p.m.

1. Roll Call and Determination of Presence of a Quorum

Voting Members Present: Danielle Henderson, Michael DeMartini, Michael Drinkwater, John Enloe, Bill Hauck, Mickey Hazelwood, David Solaro, John Zimmerman

Voting Members Absent: John Flansberg, John Martini, Darrin Price

Non-Voting Members Present: Cindy Turiczek (present at 1:45 p.m.)

Non-Voting Members Absent: My-Linh Nguyen, Thomas Pyeatte, Harry Fahnestock

Staff Members Present: Jim Smitherman; Chris Wessel; Donna Fagan; and John Rhodes, Legal Counsel

2. Public Comment

None

3. Approval of Agenda (For Possible Action)

COMMISSIONER SOLARO MADE A MOTION TO APPROVE THE AGENDA, SECONDED BY COMMISSIONER ENLOE. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) MEMBERS PRESENT.

4. Approval of Minutes from the September 7, and October 5, 2016, Meetings (For Possible Action)

COMMISSIONER ZIMMERMAN MADE A MOTION TO APPROVE THE SEPTEMBER 7, AND OCTOBER 5, 2016, MINUTES, SECONDED BY COMMISSIONER HAZELWOOD. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) MEMBERS PRESENT.

5. Discussion regarding necessary additions to the "Cost and Financing" chapter of the 2016 Regional Water Management Plan ("RWMP") update; possible approval of funding not to exceed \$1,000 from the Regional Water Management Fund ("RWMF") for Hansford Economic Consulting to complete the revisions; and, if approved, authorize the Program Manager to execute a purchase order for that purpose – Jim Smitherman, NNWPC Water Resources Program Manager. (For Possible Action)

There were no questions or comments from the Commissioners on this item.

COMMISSIONER SOLARO MADE A MOTION TO APPROVE FUNDING NOT TO EXCEED \$1,000 FROM THE RWMF FOR HANSFORD ECONOMIC CONSULTING TO COMPLETE THE REVISIONS, SECONDED BY COMMISSIONER ENLOE. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) MEMBERS PRESENT.

6. Presentation of the final draft “Wastewater and Watershed-based Water Quality Planning” chapter, incorporating comments received to date, for inclusion in the 2016 RWMP update; discussion and possible direction to staff – Jim Smitherman. (For Possible Action)

Commissioner Drinkwater stated that his memory of past direction on this item was to not specifically name the Tahoe Reno Industrial Center as a potential large, year-round effluent user but that they be identified as a generic effluent user.

Mr. Smitherman replied that he does not recall the specific direction and would need to go back and check the record to determine what direction was given.

John Rhodes, Legal Counsel, noted that various places throughout the RWMP do reference specific projects by name but direction can be given to have staff review the records for past direction.

Commissioner Enloe discussed the need to be consistent throughout the RWMP whether specific names or more generic terms are used.

COMMISSIONER DRINKWATER MADE A MOTION TO DIRECT STAFF TO RESEARCH PAST DIRECTION, SECONDED BY COMMISSIONER ZIMMERMAN. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) MEMBERS PRESENT.

7. Discussion and possible direction to staff regarding review and possible revisions to the “Issues and Action Plan” chapter for inclusion in the 2016 RWMP update - Jim Smitherman. (For Possible Action)

Mr. Smitherman and Chris Wessel, NNWPC Water Management Planner, presented an overview of the staff report reviewing each of the following elements of the proposed action items: 9.1 Municipal Water Resources; 9.2 Water Conservation; 9.3 Wastewater Management; 9.4 Truckee Meadows NPDES Storm Water Discharge Permit; 9.5 Integrated Use of Water Rights; 9.6 Water Resources and Land Use Planning; 9.7 Local Government Drainage Programs; and 9.8 Regional Flood Plain Management and Flood Control.

Commissioner DeMartini discussed the issue of how areas outside of the Truckee Meadows Water Authority (“TMWA”) service area address drought standards. He also discussed the need for an action plan item to be included to address water issues with all the proposed new development in Verdi.

Vice Chair Henderson discussed how to address the concerns raised and the process to include it as an action item that could potentially be accomplished in the next five years.

Mr. Smitherman explained that the Issues and Action Plan chapter of the RWMP should not bring up something new that hasn’t been discussed in a prior chapter. If a broader discussion of the issue is to be included it can be developed in an earlier chapter. Mr. Smitherman also noted that the drought standard was intended to apply to publicly owned purveyors and Commissioner DeMartini brings up a good point regarding where domestic well owner go for a drought standard.

Cindy Turiczek, Public Utilities Commission (PUC), stated that they have worked with the State Engineering to determine jurisdiction. The State Engineering still manages the water conservation plans for the coops and non-profits. The PUC does the water conservation plans for the larger companies. Ms. Turiczek asked if the Commission was interested in discussing what the plan are on the horizon for the Verdi area.

Vice Chair Henderson suggested that it would be useful to have Ms. Turiczek available to answer questions when this goes out for public comment.

Commissioner Drinkwater requested the earlier version of this chapter to review for context. Mr. Smitherman will email the earlier version of this chapter to the Commissioners.

COMMISSIONER DEMARTINI MADE A MOTION TO ACCEPT THE REPORT AND DIRECT STAFF TO FAMILIARIZE THEMSELVES WITH WHAT HAS GONE ON IN VERDI AND POTENTIALLY ADD THAT WORDING REGARDING A VERDI MASTER PLAN AS AN ISSUE TO BE INCLUDED, SECONDED BY COMMISSIONER SOLARO. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) MEMBERS PRESENT.

Mr. Rhodes discussed the terminology used in the motion referring to a Verdi Master Plan and stated that it may not be appropriate to include the term Verdi Master Plan as part of the RWMP.

Commissioner DeMartini clarified that his meaning was to extend the RWMP to include Verdi that has not been yet addressed.

8. Discussion and possible direction to staff regarding any chapters of the RWMP previously reviewed by the NNWPC in relation to the 2016 RWMP update – Jim Smitherman. (For Possible Action)

No action was taken.

9. Program Manager's Report – Jim Smitherman.

- A. Report on the status of projects and Work Plan supported by the RWMF
- B. Financial report on the RWMF

Mr. Smitherman presented the staff report. There were no questions or comments on this item.

10. Discussion regarding location and possible agenda items for the December 7, 2016, NNWPC meeting, and other future meetings, and possible direction to staff – Jim Smitherman. (For Possible Action)

Mr. Smitherman stated that the December NNWPC meeting will likely be held in the Sparks Chambers again.

Possible future agenda items will include:

- Proposal for development of a watershed management plan
- Review of changes to the RWMP update; and any other standing items

No action was taken.

11. Commission Comments

Vice Chair Henderson stated that November 13 through 19 is the 2016 Flood Awareness Week. A variety of events are planned throughout Nevada and in the Truckee Meadows there will be a public outreach event at the Meadowood Mall on Saturday, November 19, 2016.

12. Staff Comments

None

13. Public Comment

None

14. Adjournment (For Possible Action)

COMMISSIONER ZIMMERMAN MADE A MOTION TO ADJOURN AT 2:28 P.M., SECONDED BY COMMISSIONER DRINKWATER. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) MEMBERS PRESENT.

Respectfully submitted by Christine Birmingham.

Approved by:

John Flansberg, Chairman

APPROVED BY COMMISSION IN SESSION ON _____, 2016.

DRAFT

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: December 1, 2016

TO: Chairman and Members, Northern Nevada Water Planning Commission

FROM: Chris Wessel – NNWPC Water Resources Program Manager
Theresa Jones, PE, Associate Civil Engineer, City of Reno

SUBJECT: Presentation of a proposal to update the Truckee Meadows Watershed Management and Protection Plan for Tributaries to the Truckee River, request for \$70,000 from the Regional Water Management Fund (“RWMF”) to begin update process, and possible recommendation to the Western Regional Water Commission (“WRWC”) to approve the expenditure and execute an interlocal agreement with the City of Reno to complete the initial portion of the update.

SUMMARY

The Cities of Reno and Sparks, and Washoe County, through the Truckee Meadows Storm Water Permit Coordinating Committee (“SWPCC”) are required to continue to review, modify and update the Truckee Meadows Watershed Management and Protection Plan for Tributaries to the Truckee River, dated May 9, 2003 (the "Plan"). The Plan was last updated in 2005 with the publication of the "Truckee Meadows Watershed Protection Manual". Since that time, the SWPCC became aware of the potential for Clean Water Act 319 federal grant funding which may be available to communities with watershed management plans that meet certain federal Environmental Protection Agency ("EPA") criteria consisting of nine elements. The Plan includes some components of EPA's nine required elements, but does not include all requirements. The SWPCC intends to update the Plan to meet the specific identified criteria so that the community would qualify to apply for federal funding, and the attached Scope of Work will provide the initial investigation required for that update.

The SWPCC is requesting funds in the amount \$70,000 for the initial portion (Tasks 1 and 2) of the Plan update. Theresa Jones, SWPCC coordinator for the City of Reno will provide a presentation and answer questions regarding this request and the Plan update.

FISCAL IMPACT

Approval by the WRWC would include a fiscal impact of \$70,000 from the Regional Water Management Fund. The funds were included and approved as part of the WRWC Fiscal Year 2016-2017 budget in fund center 766, under cost center WP310305.

RECOMMENDATION

Staff recommends that the NNWPC make a recommendation to the WRWC to approve the proposal, and execute an interlocal agreement with the City of Reno, in an amount not to exceed \$70,000, to complete the initial portion (Tasks 1 and 2) of the Plan update.

CW:df

Attachments: Watershed Management Plan Update Scope of Work for FY17-18

EXHIBIT "A"
Scope of Work

BACKGROUND

Policy 3.1.e (Watershed Protection) of the 2011-2030 Comprehensive Regional Water Management Plan, states that the Western Regional Water Commission shall implement watershed protection programs for the Truckee River, its tributaries and other perennial streams in the region. Additionally, the City of Reno, City of Sparks, and Washoe County, are co-permittees of the Truckee Meadows National Pollutant Discharge Elimination System ("NPDES") Storm Water Permit (the "NPDES Permit") issued by the Nevada Division of Environmental Protection ("NDEP"), and parties to the 2004 amended Interlocal Agreement regarding implementation of the NPDES Permit (the Storm Water ILA"). Both Section 3.A.4 of the Storm Water ILA, and Section 6 of the Truckee Meadows Regional Storm Water Management Program ("SWMP") require the co-permittees and parties to continue to review, modify and update the Watershed Management and Protection Plan for Tributaries to the Truckee River, dated May 9, 2003 (the "Plan"). The SWMP is the program implemented by the co-permittees as mandated in the NPDES Permit.

The last update of the Plan occurred in 2005 under the guidance of the Truckee Meadows Storm Water Permit Coordinating Committee ("SWPCC") with the publication of the Truckee Meadows Watershed Protection Manual (the "Manual"). Most if not all objectives and priorities outlined in the Plan and the Manual have been initiated and implemented to varying degrees.

Additionally, in 2008 the US Environmental Protection Agency ("EPA") published the "Handbook for Developing Watershed Plans to Restore and Protect our Waters" outlining nine minimum elements required for any watershed management plan. Potential restoration projects, to be eligible for Clean Water Act, Section 319 Grant funds, must be developed from a watershed plan conforming with EPA's nine elements. The scope of work described below provides for the initial investigation required to update the Plan in compliance with EPA's nine elements.

On January 28, 2016, the SWPCC agreed upon a budget of \$70,000 for the initial phase of the Plan update (for Fiscal Years 2017 and 2018).

SCOPE OF WORK

Item	Amount
Update: Watershed Management and Protection Plan for Tributaries to the Truckee River, Phase 1: Tasks 1 and 2.	\$70,000

The SWPCC has identified the need to update the Plan in compliance with the SWMP and the Storm Water ILA. Once updated and approved by EPA, the Plan will qualify the co-permittees to gain access to EPA 319 Grant funds for tributary watershed projects. The SWMP includes many

EXHIBIT "A"
Scope of Work

components of EPA's watershed elements, but does not satisfy all requirements. Regional and local programs, projects, and activities must be evaluated, as well, to determine applicability for inclusion into the Plan. Table 1 (attached) outlines draft phases, tasks and estimated timeframes anticipated for completing the Plan update.

Phase 1 includes:

Task 1 – Data inventory and GAP analysis: research and develop an inventory of existing data and information generated from various programs, plans, etc., including the SWMP as well as other agencies/organizations efforts within the Truckee Meadows. A determination will be made of the applicability and acceptability of existing information toward meeting EPA's watershed management plan guidelines.

Task 2 – Prioritize data needed for development of the Plan update, establish general strategy for data acquisition, QA/QC and data management.

Tasks 1 and 2 will be consultant efforts with guidance and management from the SWPCC.

Deliverable: Report outlining existing data, identifying gaps and prioritizing data needs, collection and management. Commence data collection as allowable.

[Task 3 is a concurrent effort beyond this scope of work. In Task 3, the SWPCC is participating with NDEP in identifying key stakeholders through NDEP's Integrated Source Water Protection Program (ISWPP). NDEP is also providing technical assistance in completing certain components of the Plan update. Because watershed planning is completed through stakeholder collaboration and at no cost to the SWPCC, Task 3 work could be considered as matching funds.]

Total

\$70,000

CONTRACTING PROCESS

A qualified consultant will be selected by the SWPCC either by soliciting an RFP and interviewing selected proposers or directly from an appropriate City of Reno Consultant List (e.g. Storm Water Quality Management, Watershed Restoration, or other applicable list).

EXHIBIT "A"
Scope of Work

The consultant agreement for Tasks 1 and 2 will be entered into and administered by the City of Reno, as the administrative agent for the SWPCC. Consultant invoices will be paid by the City of Reno, after which the City of Reno will seek reimbursement from the Western Regional Water Commission ("WRWC").

WRWC funding will be used exclusively to reimburse the City of Reno for expenses consistent with the City of Reno's consultant agreement.

ANTICIPATED SCHEDULE

City of Reno staff anticipates this effort to take a total of 18 months once a consulting agreement is executed.

Table 1. Draft Scope for Update of Watershed Management and Protection Plan for Tributaries to the Truckee River¹+A1:F16

Phase	Tasks	Item	Description	Estimated Cost	Estimated timeframe
Phase 1: Watershed Characterization	Task 1	Data Inventory and GAP Analysis	Establish inventory of existing data, information, programs, plans, etc., currently being collected and implemented by the Truckee Meadows Storm Water Management Program as well as other group efforts, determine acceptability/applicability of existing information to the watershed effort, and identify gaps needed for conforming with EPA's nine elements	\$70,000	12 - 24 months
	Task 2	Rank Information Needs Priorities Collection Effort	Prioritization of data needs, establish general plan development/strategy for filling gaps identified in Task 1, develop QA/QC plan and data management plan, begin data collection as applicable.		
	Task 3	Identify Stakeholders/Building Partnerships	Participation with NDEP ISWPP in outreach, education and engagement of potential stakeholders	NDEP Lead - No Cost to SWPCC	
	Task 4	Data Collection and Analysis	Initiate information gathering and analyses identified through gap analysis and prioritized by the SWPCC and stakeholders. Analysis of existing data (as required), continue collection of prioritized data, implement QA/QC Plan, data management, etc.	Cost TBD	
	Task 5	Defining of Watershed Planning Effort	Integrating effort with other key programs, public outreach, identification of concerns, issues, goals, management objectives, priorities, plan implementation, timeline, measuring success, consensus to develop key components of the watershed plan framework		
Phase 2: Identifying Solutions, Design Implementation Program	Task 6	Setting/Prioritizing Goals/Identify Load Reductions	Identify priority areas/reaches, level of modeling efforts, load reduction targets.	Cost TBD	18-24 months ²
	Task 7	Identify, Evaluate, Finalize Management Strategies	Evaluate effectiveness of current management measures, identify critical areas, opportunities/constraints, potential strategies, cost/benefit/, alternatives ranking, evaluation criteria and measurements of success, finalization.		
	Task 8	Funding	Identifications of funding sources for plan implementation		
Phase 3: Implement Watershed Plan, Measure Progress, Adjust	Task 9	Updated Watershed Plan	Development of document to implement management and protection for tributaries to the Truckee River, annual works plans, periodic plan revisions and updates, buy in from City of Reno, City of Sparks, Washoe County officials	Cost TBD	12-18 months (initial effort) ³
	Task 10	Implement Watershed Plan and Measure Progress	Implement annual work plans, track progress, analyze monitoring data, share results, make adjustments.		

1. Phases and tasks identified are a best guess as the watershed planning effort is a lengthy process with multiple stakeholders, scope of effort will change as time progresses

2. Timing of Tasks 6 - 8 would occur concurrently with some elements within Phases 1 and 3

3. Timing of Tasks 9 - 10 would occur concurrently with some elements within Phase 2

4. Note: Task descriptions, task breakouts, timelines, and costs may change as plan develops.

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: December 1, 2016
TO: Chairman and Members, Northern Nevada Water Planning Commission
FROM: Chris Wessel – NNWPC Water Resources Program Manager
SUBJECT: Presentation on the Nevada Integrated Source Water Protection Program and possible recommendation to the Western Regional Water Commission ("WRWC") to approve a letter requesting participation in the program for the Washoe County geographic planning area.

SUMMARY

The Integrated Source Water Protection Program ("ISWP Program") is a voluntary, county-wide approach designed to help communities develop and implement a plan that protects their public drinking water supplies. To date, Source Water Protection Plans have been completed in 7 of Nevada's 17 counties. The Nevada Division of Environmental Protection ("NDEP") has contracted with a technical service provider, Resource Concepts, Inc. ("RCI"), to assist in every aspect of source water protection planning and implementation for public water systems throughout Washoe County, should they choose to participate in the planning process.

With the assistance of RCI, communities will identify sensitive drinking water protection areas and activities that could contaminate ground water in these areas. Communities will also set source water protection goals, procure resources and develop and implement a source water protection plan.

Kim Borgzinner and Birgit Henson of NDEP will provide a presentation and answer questions on the ISWP Program. NDEP is looking for the NNWPC to recommend that the WRWC endorse the ISWIP Program efforts by way of a stakeholder letter of support.

FISCAL IMPACT

There is no fiscal impact associated with an affirmative recommendation of support for this program.

RECOMMENDATION

Staff recommends that the NNWPC make a recommendation to the WRWC to issue a letter in support of the ISWP Program.

JS:df

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: December 1, 2016
TO: Chairman and Members, Northern Nevada Water Planning Commission
FROM: Jim Smitherman, Water Resources Program Manager
SUBJECT: Discussion and possible direction to staff regarding review and possible revisions to the “Issues and Action Plan” chapter for inclusion in the 2016 Regional Water Management Plan (“RWMP”) update

SUMMARY

The last chapter for review as part of the 2016 RWMP update is Chapter 9 Issues and Action Plan. This chapter identifies current and future issues which will likely require action during the 5-year planning horizon. The following are the action items identified in the 2011-2030 RWMP with comments received to date, which are identified as red-line edits. Staff is seeking additional comments from the Commission as to additions, deletions and/or modifications to the proposed action items identified below.

2016-2035 Proposed Action Items

9.1 Municipal Water Resources

9.1.A. Coordinate with TMWA on the possible development of a policy regarding the development of new water systems, expansion of existing water systems.

9.1.1 Central Truckee Meadows

~~9.1.1.A Negotiated Settlement (TROA) – The signatory parties are in the process of completing the necessary steps to implement TROA.~~ 9.1.1.AB Drought Standard – The NNWPC continues to recommend the use of the 98-Year Drought Cycle, from 1987-1994, for consistency with TROA and TMWA planning, and review ~~se~~ ~~as it if~~ necessary during the next update of this Plan. ^[EJ1]

9.1.1.B.C Water Supply Development – ~~TMWA and Washoe County will e~~Continue to pursue investigate sustainable water supply projects that are socially, economically and environmentally feasible and that can be implemented to ensure water supplies are available, as future demands require.

~~9.1.1.D Participate in Bureau of Reclamation (“BOR”) climate change study for the Truckee River watershed expected to commence in 2011.~~ ^[EJ2]

9.1.1.EC. Participate in the Desert Research Institute (“DRI”) cloud seeding program for the Lake Tahoe basin and the Truckee River basin, and coordinate with DRI’s efforts to continue the cloud seeding program statewide and support reinstatement of state funding.

9.1.1.FD. Adopt TMWA’s 2016-2035 Water Resource Plan into the 2016~~4~~ Regional Water Plan.

9.1.2 South Truckee Meadows

~~9.1.2.A. Develop tributary creek water for municipal supply by way of the Mt Rose Water Treatment Plant, local treatment and continue options for the tributary creek water exchange program and investigate other options to improve the beneficial uses of the tributary creek resources.~~

~~9.1.2.B. Support TMWA's development of a plan-Plan for Groundwater Sustainability on the Mt. Rose Fan to mitigate future groundwater level declines and potential impacts to domestic wells.~~

9.1.3 Stead / Lemmon Valley

~~9.1.3.A. WCDWR and TMWA should develop a facility and financing plan for the required distribution system infrastructure in Lemmon Valley, including improvements necessary to integrate and utilize the Fish Springs water supplies for existing and future customers. [EJ3]~~
No actions recommended?

9.1.4 Cold Springs

~~9.1.4.A. Develop Aa facility plan needs to be completed for the build-out of approved land uses in the Cold Springs portion of the TMSA, including conjunctive use and system integration options with Utilities Inc.~~

~~9.1.4.B A comprehensive water resource plan needs to be prepared for Cold Springs and portions of the Long Valley hydrographic basin to estimate the perennial yield for the Water Baseline Table and the 2035 Regional Water Balance.~~

9.1.5 Spanish Springs

~~9.1.5.A. Develop a long-term groundwater management strategy. Stakeholders include TMWA, the Sky Ranch Water Company, City of Sparks, domestic well owners, the Red Hawk Golf Course, Granite, Sha-Neva and Donovan quarry owners and other water rights owners. [EJ4]~~

~~9.1.5.B Monitor groundwater pumping and aquifer water levels to avoid long-term over-pumping. Use Truckee River water resources to help support demand for conjunctive use and mitigation of water quality issues. Support TMWA's pilot water treatment efforts for removal of nitrate and arsenic.~~

~~9.1.5.B.C Continue implementing phased conversion of areas with high densities of septic tanks to community sewer system as funding is made available.~~

9.1.6 Tracy Segment (Lower Truckee River)

~~9.1.6.A Update the Water and Wastewater Facility Plans for East Truckee Corridor that includes analysis of the current development proposals and approved development potential within the Truckee Meadows Service Areas boundary.~~

~~9.1.6.A.B Coordinate with Storey County regarding existing commitments and future potential demands for the entire Tracy Segment hydrographic basin. [EJ5]~~

~~9.1.6.C Development of a position statement regarding construction of surface water treatment facilities in the Lower Truckee River.~~

9.1.7 Truckee Canyon (Verdi)

9.1.7.A. Coordinate with public and private water purveyors and developers regarding water resources, existing commitments and future potential demands for the Truckee Canyon hydrographic basin.

9.1.78. Groundwater Resource Development and Impact to Domestic Wells

9.1.78.A. Support expansion of TMWA's Truckee River system to reach areas such as Mt. Rose and Verdi, to allow for conjunctive use. TMWA's aquifer storage and recovery program provides secondary benefits to domestic wells locally, such as in Lemmon Valley. Indirect potable recharge may provide future benefits.

9.1.8.B Support TMWA's development of a plan-Plan for Groundwater Sustainability on the Mt. Rose Fan to mitigate future groundwater level declines and potential impacts to domestic wells.

9.2 Water Conservation

9.2.A ~~Revise Continued implementation of conservation measures to achieve "Base Case"~~ [EJ6] conservation for consistency with the TMWA 2035 Water Resources Plan, Chapter 5, which is tied to drought, Floriston Rates and TROA. [EJ7]

9.2.B Support and participate in the Water For The Seasons program, led by TMWA, which investigates climate variability and potential water supply risks.

9.2.C. Continue long-term regional precipitation gauge monitoring and data analysis.

9.3 Wastewater Management

9.3.A Continue support for changes to the State reclaimed water regulations, to include criteria for exceptional quality reclaimed water and provide for aquifer recharge and indirect potable reuse; and provide support for the development of implementation guidelines.

9.3.B Continue development of near-term regional [EJ8] effluent management strategies and a framework for an updated regional effluent management master plan.

9.3.C Continue collaboration with regional and national experts to study and develop advanced treatment technologies and undertake geotechnical investigations consistent with State regulations and regional effluent management strategies.

9.3.1 Central Truckee Meadows

~~9.3.1.A Continue Third Party review of the 1994 nutrient TMDLs and applicable WQS in coordination with state and federal regulatory authorities, and the PLPT's water quality and quantity goals, to demonstrate that continued discharge to the Truckee River from TMWRF is an environmentally sound practice.~~

~~9.3.1.B Continue technical, modeling and legal work to support the TMDL and WQS review and discussions with NDEP and EPA.~~

~~9.3.1.C Continue working with the Third Parties to facilitate public outreach, in consultation with NDEP and EPA, and obtain input from affected stakeholders at key decision points in the TMDL and WQS review and revision process.~~

9.3.1.A Continue development of near-term regional strategies to manage effluent and reduce nitrogen loading to the Truckee River, which may include expanded distribution of effluent

outside the TMSA, and expanded uses which may include aquifer recharge and indirect potable reuse.

9.3.1.BD Pursue connection of additional reclaimed water users to the existing systems in Sparks and Reno, consistent with regional water quality and water rights considerations, and continue investigating the feasibility of expanded uses of reclaimed water.

9.3.1.CE Continue evaluating the merits of regional integrated solutions between TMWRF and STMWRF for the wastewater treatment, and effluent reuse and disposal of wastewater.

9.3.2 South Truckee Meadows

9.3.2.A Actively pursue a new reclaimed water strategy to continually balance the increasing supply with available storage capacity and demand. Alternative reuse methods should be explored in detail, in coordination with NDEP, such as reclaimed water aquifer recharge storage and recovery ("ASR") and cooling water for energy generation facilities.

9.3.2.B In regard to the potential regional implications of reclaimed water aquifer recharge ASR and indirect potable reuse, it is recommended that the Reno Stead ozone-biological activated carbon ("BAC") pilot plant feasibility evaluation be continued at STMWRF to more fully optimize the technology.

9.3.2.C As discussed in Section 9.3.1, continue evaluating the merits of regional integrated solutions between TMWRF and STMWRF for the wastewater treatment, effluent reuse and disposal of wastewater, including funding considerations.

9.3.3 Stead / Lemmon Valley

9.3.3.A Continue to evaluate the merits of regional integrated solutions between RSWRF and CSWRF for the wastewater treatment, and reuse and disposal of wastewater, including funding considerations.

9.3.3.B Continue to work with NDEP on proposed effluent ASR regulations reclaimed water groundwater augmentation feasibility/demonstration efforts, including additional groundwater modeling assessments of aquifer storage and recovery capacity. for long-term viability, and establishing appropriate water quality standards for the protection of water resources, public health and the environment.

9.3.4 Cold Springs

9.3.4.A Continue to evaluate the merits of regional integrated solutions between CSWRF and RSWRF for the treatment and disposal of wastewater, including funding considerations.

9.3.4.B Update and refine the existing WCDWR WCU [LP9] groundwater model for Cold Springs to address interrelated groundwater, surface water and wastewater issues.

9.3.5 Tracy Segment (Lower Truckee River)

9.3.5.A As this area of Washoe County Sparks and Storey County continues to grow, it will be important to monitor groundwater and surface water quality to check for non-point source pollutants entering groundwater and the Truckee River.

9.3.5.B Remain open to visit discussions among Washoe County, PLPT, and the City of Fernley to seek an area-wide water and wastewater strategy for lower Truckee River users.

9.3.6 Septic Systems and Water Quality

9.3.6.A Continue to provide guidance ~~as needed~~ to domestic well owners on how to manage/mitigate domestic well water with elevated levels of nitrate.

9.4 Truckee Meadows NPDES Storm Water Discharge Permit

9.4.A Continued SWPCC communication with NDEP is necessary to address ~~any changes/updates to the NPDES permit~~

9.4.B Support the update of the Watershed Management Plan such that it can be used in the support of applying for 319h Grant funding in support of future watershed projects.

9.5 Integrated Use of Water Rights

9.5.A Continue the implementation of *TROA* and related agreements. Compare the water demand and water right recovery estimates to future conditions imposed by *TROA* and related agreements.

9.5.B Continue the water rights recovery program to convert inactive Truckee River water rights to beneficial use and update the water right status and demand projections regularly.

~~9.5.C Finalize and implement recommendations developed from the potential consolidated management of TMWA and WCDWR water rights and water resources.~~

9.5.~~CD~~ Continue the analysis and development of non-structural measures to improve Truckee River water quality, ~~enable increased TMWRF discharges~~, and ensure the future sustainability of the river.

9.5.~~DE~~ Quantify groundwater and surface water resources and determine the feasibility of conjunctive use or other programs, including but not limited to expanded recharge projects, use of Fish Springs Ranch water supplies, and conversion of tributary water rights to M&I water supply and other beneficial uses.

9.5.~~EF~~ Develop cooperative management strategies among local governments, reclaimed water providers and water purveyors that maximize the benefits of available reclaimed water resources.

9.5.~~FG~~ Monitor existing and future water demand and planning area growth projections, and develop plans to resolve any major discrepancies in consideration of available water resources and geographic constraints.

9.6 Water Resources and Land Use Planning

9.6.A Continue working with TMRPA staff to strengthen appropriate linkages between the *Regional Plan* and the *Regional Water Plan*

9.6.B Review areas within the TMSA boundary for gaps in facility planning and develop a plan to respond to changes in land use and the TMSA that affect current facility plans

9.6.C Continue to coordinate with TMRPA and 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 uses

9.6.D Coordinate with local land use planning agencies to address rural groundwater basin imbalances

9.7 Local Government Drainage Programs

9.7.A Local government public works departments and the Flood Project are expected to discuss and reach consensus concerning funding and other issues involving local drainage programs and the Flood Project.

9.7.B Discuss with local government public works departments the status of the Truckee Meadows Regional Drainage Design Manual and the possible need for developing an update.

9.8 Regional Flood Plain Management and Flood Control

9.8.A Support the TRFMA's efforts to develop funding for the flood project and incorporate cost, financing and rate information, when available, into the Regional Water Plan. ~~The parties to the Cooperative Agreement are expected to resolve issues and complete the JPA negotiations.~~

~~9.8.B Issues regarding flood plain storage in Zone boundaries need to be addressed and ordinances to address Zones 3 and 4 will be needed.~~

~~9.8.C A Flood Plain Management Plan will need to be developed and submitted to the AGOE.~~

~~9.8.D Continue development of a regional hydrologic model.~~

9.8 Groundwater Quality Protection and Remediation

9.9.A Support the efforts of the Central Truckee Meadows Remediation District and others to remediate solvent and/or fuel sites in the Planning Area

9.9.B Participate in Source Water Protection Program activities sponsored by the State of Nevada

RECOMMENDATION

Staff recommends that the Northern Nevada Water Planning Commission ("NNWPC") accept the report and provide direction to staff regarding any of the proposed action items.

JS:

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: December 1, 2016

TO: Chairman and Members, Northern Nevada Water Planning Commission (“NNWPC”)

FROM: Jim Smitherman, NNWPC Water Resources Program Manager

SUBJECT: Review, discussion and possible direction to staff regarding the draft Regional Water Balance for possible inclusion in the “Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow” chapter of the 2016 Regional Water Management Plan (“RWMP”) update.

SUMMARY

Stantec Consulting Services (“Stantec”) is updating the regional water balance model for inclusion in the “Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow” chapter of the 2016 RWMP update. The final product will be a spreadsheet model and a GIS-generated geographical flow diagram of a projected 2035 future conditions scenario for water supply, wastewater treatment, reclaimed water and wastewater disposal requirements.

The regional water balance is useful to answer questions such as the following.

- How much potable water will be required and in what locations?
- From what sources will potable water originate?
- Once potable water is used, where will wastewater treatment happen?
- Once treated, how much water is reused and in what locations?
- Where is the remaining effluent disposed?
- Are there future imbalances in water supply, wastewater reuse/disposal, and if so, where?
- Are there planning areas with adequate capacity to address imbalances?

Stantec has compiled future water demand and wastewater flow projections for 2035 provided by the Truckee Meadows Regional Planning Agency (“TMRPA”), which are distributed within the Truckee Meadows Service Area (“TMSA”) into 6 geographic areas that coincide with the service areas of the 4 major water reclamation facilities (“WRF”):

<u>Area</u>	<u>WRF</u>
1. Cold Springs	Cold Springs WRF
2. Lemmon Valley/Stead	Reno-Stead WRF
3. South Truckee Meadows	South Truckee Meadows WRF
4. Sparks/Spanish Springs	Truckee Meadows WRF
5. Sun Valley GID	Truckee Meadows WRF
6. Truckee Meadows	Truckee Meadows WRF

Water demand projections are a function of residential and non-residential unit projections based on the 2014 Consensus Forecast, derived using the TMRPA parcel-based population and employment model and Truckee Meadows Water Authority (“TMWA”) water use coefficients. Projections are reviewed by TMWA for consistency with water demand projections in its 2035 Water Resources Plan (“WRP”).

Wastewater flow projections are derived similarly, using TMWA's indoor water use coefficients. The methodology is calibrated by modeling 2015 average day annual flows and comparing them to 2015 observed flows at each WRF.

Water demand and wastewater flow projections are compared to plans provided by the service providers for future water supply, wastewater treatment capacity, and effluent management to create a high-level, 20-year water balance scenario for each of the 6 areas.

John Buzzone, P.E., of Stantec will provide a presentation and status report to explain the model, update the NNWPC on progress and answer questions.

RECOMMENDATION

Staff recommends that the NNWPC accept the report and provide direction to staff as appropriate.

JS:js

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: December 1, 2016
TO: Chairman and Members, Northern Nevada Water Planning Commission ("NNWPC")
FROM: Jim Smitherman, Water Resources Program Manager
SUBJECT: Review, discussion and possible revision of draft Policy 1.2.a of the "Regional Water Planning Policies and Criteria" chapter of the 2016 Regional Water Management Plan ("RWMP") update, concerning conjunctive management of water supplies to withstand a 9-year drought cycle

SUMMARY

The drought standard policy as it appears in the Regional Water Planning Policies and Criteria chapter of the 2016 RWMP update is shown below:

Policy 1.2.a: Conjunctive Management of Surface Water and Groundwater Supplies to Withstand a 9-year Drought Cycle

For planning purposes, the conjunctive management of TROA-reliant surface and ground water supplies for municipal and industrial use in the greater Truckee Meadows area shall be designed to withstand the worst drought cycle of record, that being the drought of 1987-1994, plus one dry year (1987) added to the cycle.

A proposed revision to the policy is as follows:

Policy 1.2.a: Conjunctive Management of Surface Water and Groundwater Supplies to Withstand an 8-year Drought Cycle

For planning purposes, the conjunctive management of TROA-reliant surface and ground water supplies for municipal and industrial use in the greater Truckee Meadows area shall be designed to withstand the worst drought cycle of record, that being the drought of 1987-1994.

BACKGROUND

The 8-year, 1987-1994 drought, the most severe on record, is the standard for Truckee Meadows Water Authority ("TMWA") water supply planning as stated at numerous locations in the TMWA 2035 Water Resources Plan ("WRP"). One example, on page 88 of Chapter 3, Integrated Management of Water Resources, states: "[u]nder TROA operations during the 8-year drought design (1987 to 1994) at 119,000 AF of demand TMWA continues to accumulate drought reserves through the drought period. TMWA has run several drought model simulations more severe than the drought of record with favorable results. These model runs are summarized in the attached discussion, and are presented in detail in the WRP.

TROA also uses an 8-year design drought to define the critical drought period. Additionally, an 8-year design drought was used to develop the TROA EIS.

In the past, pre-TROA versions of the RWMP's drought standard, one or more dry years was added to the 1987-1994 drought hydrology to develop a conservative drought standard for conjunctive management of water resources. With the 2015 implementation of TROA, the drought standard should be consistent among TROA, TMWA water supply planning and the RWMP.

As Section 43(2) of the Western Regional Water Commission Act requires the RWMP to be consistent with and carry out all aspects of TROA, staff recommends approval of the proposed revision.

RECOMMENDATION

Staff recommends that the NNWPC approve the proposed revision to Policy 1.2.a, and direct staff to include the revision in the draft Regional Water Planning Policies and Criteria chapter of the 2016 RWMP update.

JS:df

Attachment

Objective 1.2 Provide for a Sustainable Water Supply and an Acceptable Level of Service to the Community

Policy 1.2.a: Conjunctive Management of Surface Water and Groundwater Supplies to Withstand an 89-year Drought Cycle

For planning purposes, the conjunctive management of TROA-reliant surface and ground water supplies for municipal and industrial use in the greater Truckee Meadows area shall be designed to withstand the worst drought cycle of record, that being the drought of 1987-1994, ~~plus one dry year (1987) added to the cycle.~~

Discussion: The 8-year, 1987-1994 drought, the most severe on record, is the standard for TMWA planning. TROA also uses an 8-year design drought to define the critical drought period. Considering Section 43.2 of the Act requiring consistency with TROA and the 2015 implementation of TROA, it follows that the drought design standard should be consistent among TROA, TMWA water supply planning and the Regional Water Plan. In addition, TROA analysis has shown that under TROA operations water supplies and drought reserves accumulate to TMWA's benefit under the 1987 to 1994 drought hydrology. Since TROA implementation, TMWA has run several drought model simulations more severe than the drought of record with favorable results. These model runs are summarized below and discussed in detail in the TMWA 2035 WRP.

The meteorologic drought, begun in 2012, created hydrologic drought impacts in 2014 and 2015 which required TMWA to release some of its upstream drought reserves for the first time since 1992. As defined in TROA, the region has been in a Drought Situation (i.e., the level of Lake Tahoe is projected to be below elevation 6223.5 feet on November 15 of a given year) since 2014. Although the 2015/2016 snow season produced a moderate recovery year for water supplies, it cannot be known with certainty the duration of the current drought. In addition, analysis has shown that under TROA operations water supplies and drought reserves accumulate to TMWA's benefit under the 1987 to 1994 drought hydrology.

The TMWA 2035 WRP reports that analyses of California blue oak tree-ring data concluded that drought periods of 8-, 9- or 10-years are rare occurrences with frequencies of 1 in 230 years, 1 in 375 years, and 1 in 650 years, respectively. While there has not been any new tree ring data collected since the 2003 study, a preliminary dendrochronological reconstruction of water-year streamflow was performed using as predictors the western U.S. tree-ring chronologies available from the public-domain International Tree-Ring Data Bank ("ITRDB") dataset and stream flows from the Carson River. The Carson River does not have reservoirs compared to the Truckee River and is therefore a more natural flowing river providing better correlation with select tree-ring cores. This reconstruction of the Carson River extended from 1500 to 2001, a period five times longer than the instrumental record. The reconstruction of the Carson River had 211 wet and dry spells with an average duration of 2.4 years, with the longest episodes being a 9-year wet period (1978 to 1986), and two 8-year droughts in 1841-1848 and 1924-1931. These three episodes were also the strongest found in the 502 year history in the reconstruction dataset.

TROA was implemented in December 2015. To stress TMWA's upstream drought reserves under TROA operations, two hydrologic scenarios or simulations were performed to test the robustness of the region's back-up water supply. Two twenty (20) year hypothetical worse-than-worse-case scenarios were used. The first 20-year simulation ("Repeat1987") ran the 1987-1994 drought of record plus the 1988 hydrology back-to-back after starting with actual 2012 to 2015 hydrology--the four driest back to back years in recorded history (115 years record

keeping). The second scenario ("Repeat2015") repeated actual 2015 hydrological conditions for an additional 20 years after starting with actual 2012 to 2015 hydrology. Both model runs used TMWA's forecasted customer demands through 2035.

The results of the Repeat1987 model using the Bureau of Reclamation's *RiverWare* validate the work that was done for the TROA EIS using TROM. The results of the model run suggest that not only can this region withstand a repeat of the 1987-1994 drought over the course of the next 20 years under TROA, but that combined upstream drought reserves would continue to grow and reach over 70,000 acre-feet.

The results clearly show that under TROA the region's water supply is extremely resilient. When drought reserves are needed to supplement natural river flows during the peak summer demand months, storage is used during that period, but is quickly refilled over the course of the next winter and spring. By the time reserves may be for the following summer's demands, upstream reserves have been refilled and upstream reserves are in most years identical to the previous year's reserves, or in some cases, many times better.

Despite a repeat of 2015 hydrological conditions for 20 years following the four (4) driest years in recorded history (a statistically impossible scenario), TMWA's upstream reserves in the Repeat2015 scenario are not only sufficient, but actually increase throughout the planning horizon. The results once again illustrate the importance of the Truckee River Operating Agreement to this community.

TMWA will continue to monitor its ability to meet current and future demands through the 1987 to 1994 drought period, the worst drought period of record, and based on factors such as demand growth, conservation improvements, hydrologic cycles, climate changes, etc., update its Board should future conditions change that require changes to the planning criteria or supply operation.

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: November 29, 2016
TO: Chairman and Members, Northern Nevada Water Planning Commission
FROM: Jim Smitherman, Water Resources Program Manager
SUBJECT: Program Manager's Report

Attached are updated reports for items (a) and (b) for your review.

- a) Report on the status of Projects and Work Plan supported by the RWMF; and
- b) Financial Report on the RWMF.

Status Report of Projects and Work Plan Supported by the Regional Water Management Fund

Funds Ctr/ Project #	Project	Vendor	Orig.PO	Recp/Inv	Balance	Percent Complete	Start Date	End Date
WP310002	Acquisition of water rights	TRUCKEE MEADOWS WATER AUTHORITY	132,585.53	-3,980	128,605.53	3%	5/16/2013	6/30/2017
WP310006	Study:headwater restore/conservation	NATURE CONSERVANCY	8,121.63	-7,323.13	798.50	90%	10/1/2014	12/31/2016
WP310008	Precipitation"Can"Gauge Monit FY16-17	BOARD OF REGENTS/DESERT RESEARCH	37,989.00	0.00	37,989.00	0%	9/29/2016	9/30/2017
WP310101	Water Usage Review Program FY16/17	TRUCKEE MEADOWS WATER AUTHORITY	100,000.00	0.00	100,000.00	0%	7/1/2016	6/30/2017
WP310102	Washoe ET Program FY 2016-17	BOARD OF REGENTS/DESERT RESEARCH	10,000.00	0.00	10,000.00	0%	7/1/2013	9/30/2017
WP310103	Cloud Seeding FY16-17	BOARD OF REGENTS/DESERT RESEARCH	100,000.00	--	--	--	7/1/2014	6/30/2017
WP310113	Cloud Seeding Monitoring	BOARD OF REGENTS/DESERT RESEARCH	26,810.06	0.00	26,810.06	0%	7/1/2014	6/30/2017
WP310203	Advanced Wtr Treatment Demo. FY16-17	BOARD OF REGENTS, NSHE, obo UNR	155,699.00	-2,913.05	152,785.95	2%	7/1/2016	9/30/2017
WP310205	Regional Effluent Mgmt Strategy FY16/17	STANTEC CONSULTING SERVICES INC	25,483.50	-3,534	21,949.50	14%	4/1/2015	9/30/2017
WP310303	Truckee Meadows Stormwater Quality	RENO, CITY OF	262,500.00	0.00	262,500.00	0%	7/1/2016	6/30/2017
WP310502	Watershed Quality and TMDL	RENO, CITY OF	15,131.75	0.00	15,131.75	0%	7/1/2015	9/30/2016
WP310601	Water Balance Model	STANTEC CONSULTING SERVICES INC	20,113.00	--	--	--	7/1/2016	9/30/2017
WP310605	Costs and Financing Chapt. revisions	HANSFORD ECONOMIC CONSULTING	1,000.00	0.00	1,000.00	0%	11/21/2016	9/30/2017
WP310701	Related work on weather stations	THOLL FENCE INC	1,282.00	0.00	1,282.00	0%	5/1/2015	12/31/2016
WP310701	Minutes for FY2016-17	TRUCKEE MEADOWS REG PLAN AGENCY	7,000.00	0.00	7,000.00	0%	7/1/2016	9/30/2017
WP310704	Envision Video Coverage for WRWC FY16-17	ENVISION VIDEO LLC	2,000.00	-340	1,660.00	17%	7/1/2015	6/30/2017
WP310704	FY17 Video Coverage NNWPC	SOSUTV CORP	3,000.00	-637.5	2,362.50	21%	7/1/2016	9/30/2017
WP310707	TRIG Website	RENO, CITY OF	2,198.89	0.00	2,198.89	0%	7/1/2014	9/30/2016
WP310717	TRIG Website Hosting for FY2016-17	RENO, CITY OF	20,176.00	0.00	20,176.00	0%	7/1/2016	9/30/2017

-- Indicates contracting in progress or project status being updated.

11/29/2016
 Fund 766
 Report 400/ZF15
 Fiscal Year 2017; Period 1 through 5

**Financial Report on the
 Regional Water Management Fund**

Accounts	Plan Budget	Actual (Revenue & Expenses)	PO Commit (Remaining PO Balance)	Actual + PO	Available (Budget Minus Actual + PO)	Avail%	PreCommit (PO's Requested)	Available (Budget Minus PO Requisitions)	Avail%
State Grants	40,000.00-				40,000.00-	100-		40,000.00-	100-
* INTERGOVERNMENTAL	40,000.00-				40,000.00-	100-		40,000.00-	100-
Interest-Pooled Inv.	27,985.00-	4,639.79-		4,639.79-	23,345.21-	83-		23,345.21-	83-
RGL Pooled Inv.		1,078.00-		1,078.00-	1,078.00			1,078.00	
URGL Pooled Inv.		7,224.47		7,224.47	7,224.47-			7,224.47-	
Water Surcharge 1.5%	1,416,677.00-	898,873.33-		898,873.33-	517,803.67-	37-		517,803.67-	37-
* MISCELLANEOUS	1,444,662.00-	897,366.65-		897,366.65-	547,295.35-	38-		547,295.35-	38-
** REVENUE	1,484,662.00-	897,366.65-		897,366.65-	587,295.35-	40-		587,295.35-	40-
Professional Services	1,754,976.00	73,267.89	682,801.75	756,069.64	998,906.36	57	26,000.00	972,906.36	55
WRWC Staff & Legal	512,000.00	145,141.07		145,141.07	366,858.93	140.01		366,858.93	140.01
Fin Consult Services	10,000.00	8,700.00		8,700.00	1,300.00	13		1,300.00	13
Invest Pool Alloc Ex		348.27		348.27	348.27-			348.27-	
Pmts to O Agencies	175,000.00	3,980.00	128,605.53	132,585.53	42,414.47	24		42,414.47	24
Seminars and Meetings	1,000.00				1,000.00	100		1,000.00	100
Advertising	1,000.00				1,000.00	100		1,000.00	100
Undesignated Budget	20,000.00				20,000.00	100		20,000.00	100
Insurance Premium		175.00		175.00	175.00-			175.00-	
Combined Utilities	400.00	133.32		133.32	266.68	67		266.68	67
Travel	1,000.00				1,000.00	100		1,000.00	100
Overhead	129,600.00	27,154.68		27,154.68	102,445.32	389.53		102,445.32	389.53
** EXPENDITURES	2,604,976.00	258,900.23	811,407.28	1,070,307.51	1,534,668.49	59	26,000.00	1,508,668.49	58
*** Total	1,120,314.00	638,466.42-	811,407.28	172,940.86	947,373.14	85-	26,000.00	921,373.14	82-