

# Northern Nevada Water Planning Commission

## STAFF REPORT

**DATE:** October 26, 2021

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

**FROM:** Kim Rigdon, Water Resources Program Manager  
Jim Smitherman, Water Resource Consultant

**SUBJECT:** Report, discussion, and possible action on comments received on the draft update to the “Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow” chapter for the 2021-2040 Regional Water Management Plan; discussion and possible direction to staff.

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### SUMMARY

As part of the required 5-year RWMP review process, staff identified the need to update various elements of the Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow chapter for the 2021 RWMP update and is currently working in coordination with the Truckee Meadows Water Authority ("TMWA"), and the Truckee Meadows Regional Planning Agency ("TMRPA") to develop data and analyses to update the various sections of the chapter.

The chapter was initially presented at the May 5, 2021, NNWPC meeting and again at the June 2, 2021 NNWPC meeting for review and comment along with a list of proposed updates. Subsequent to these previous chapter reviews, further progress is summarized below.

A copy of the draft, revised chapter is attached (one redline copy and one clean copy). Revisions including the revised water balance map will be presented at the meeting.

**Table of Contents, List of Abbreviations and Acronyms, and References:** Shown in gray font color. No revisions to date, these sections will be revised last.

**Purpose and Scope:** Revisions to date are shown as red-line edits.

**Summary and Findings:** Revisions to date are shown as red-line edits.

**Introduction:** Revisions to date are shown as red-line edits.

**6.1 Comparison of the Consensus Population Forecast and the Estimated Population that can be Supported by the Sustainable Water Resources in the Planning Area**

Revisions to date are shown as red-line edits.

**6.2 Projections of Water Demand, Peak Day Requirements and Wastewater Flow for Service Areas**

Revisions to date are shown as red-line edits.

**6.2.2** Significant revisions to the wastewater flow projections are shown as redline edits. The methodology for model runs, and results are included. TMRPA worked closely with WRWC staff

and the Regional Effluent Management Team to refine the modeling methodology and produce the model results presented in the draft chapter.

- 6.3 *Water Balance Model:*** The Water Balance has been updated with revised water supply estimates consistent with the TMWA 2020 Water Resource Plan (WRP). Projected water demands and wastewater flows are based upon the Consensus Forecast 2040 population of 569,385 and the TMRPA Land Use Model. Projected distribution of water to planning areas shown on the map, and any water supply surplus are functions of the Land Use Model and are not intended to reflect the 2020 TMWA WRP or any TMWA long range plans. Revised wastewater flow projections are the result of TMRPA working closely with the Regional Effluent Management Team. Regarding future effluent management capacity needs and alternatives, the reader is referred to Chapter 4, which is still being developed.

**RECOMMENDATION**

Staff recommends that the NNWPC accept the revisions presented on Chapter 7 of the RWMP, with or without changes, and provide direction to staff as appropriate concerning this chapter as part of the development of the 2021 RWMP update.

KR:jp