



# City Manager's Office

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## MEMORANDUM

**DATE:** 03/12/2024

**TO:** Honorable Mayor and City Council

**THROUGH:** Doug Thornley, City Manager Approved Electronically

**FROM:** Trina Magoon, Director of Utility Services  
Dustin Waters, Assistant Director of Utility Services  
Joe Coudriet, Senior Civil Engineer

**SUBJECT:** Council Update on the Advanced Purified Water Facility at American Flat Project, including Project Updates, Cost Estimate, Project Funding, Public Outreach, and Key Milestones

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### Summary:

The OneWater Nevada Advanced Purified Water Facility at American Flat (APWF) Project is a joint effort between the City of Reno (Reno) and the Truckee Meadows Water Authority (TMWA). This memo provides an update on key project elements as we move towards 60% design and full project implementation.

### Previous Memos to Council:

- August 15, 2023, APWF Project Update
- October 25, 2023, APWF Project Update

### Project Updates:

- A 30% design review meeting was held with the Nevada Division of Environmental Protection in November 2023.

### Project Funding:

The total project cost estimate from the 30% design is \$220.9 million, which will be split 70% Reno and 30% TMWA, per the existing interlocal agreement.

- Reno and TMWA re-applied for the USBR Title XVI grant funding opportunity on December 6, 2023, for an amount up to \$30 million. Notification of successful applicants is anticipated in Spring 2024.

- Reno has submitted a Letter of Interest for a loan from the Environmental Protection Agency (EPA) Water Infrastructure Finance and Innovation Act (WIFIA) in the amount of \$70 million on February 9, 2024. On March 1, Reno received an invitation to apply for this loan. The target date for submitting the loan application is May 2024.
- Reno plans to cash fund the remainder of Reno’s portion of the project construction costs.

**Public Outreach:**

Public outreach for this project has been underway for multiple years. The following outreach has occurred since the last APWF update memo to council on October 25, 2023:

- Public Meeting – November 16, 2023: A+ Public Workshop – at Reno Stead Airport, Freedom Flight Terminal – 6:00 p.m. - 8:00 p.m.
- Public Meeting – November 28, 2023: APWF Design Workshop – at Reno Stead Airport, Freedom Flight Terminal – 6:00 p.m. - 8:00 p.m.
- Public Meeting – December 14, 2023: Washoe County District Board of Health – Northern Nevada Public Health - 1:00 p.m., Item #8 – Presentation of OneWater NV Project
- Staff Meeting – December 21, 2023: Northern Nevada Public Health – 8:15 a.m., Presentation of OneWater NV APWF Project
- Tour – January 11, 2024: Northern California Potable-Reuse Facility Tour with elected officials, regulators, and other key project stakeholders
- Jan 28, 2024 – WateReuse Nevada: OneWater Nevada APWF Project Overview at Las Vegas Conference
- Jan 29, 2024 – Nevada Water Resources Association: OneWater Nevada APWF Project Overview at Las Vegas Conference  
Feb 15, 2024 – Presentation to Reno Free Masons  
- Introduction to OneWater Nevada and Advanced Purified Water

**Key Milestones:**

Key project milestones are outlined below with touchpoints for future Council direction in **bold**:

- Now - January 2025: Environmental Permitting and Final Design
- January 2025: **CMAR Guaranteed Maximum Price #1 (GMP1) for Early Procurement**
- Spring 2025: **CMAR Guaranteed Maximum Price #2 (GMP2) for Start of Construction Activity**
- Fall 2027: Finish Construction
- December 2027 to June 2028: Startup, commissioning, and six-month operational prove up period; sending advanced purified water to the American Flat farm for irrigation.
- Fall 2028: Project complete with all required NDEP permits and Advanced Purified Water injection into the aquifer via A+ permit begins.

**Attachment:**

Appendix A – OneWater Nevada Advanced Purified Water Facility (APWF) Project Overview

Appendix B – OneWater Nevada Advanced Purified Water Facility Roadmap

# APPENDIX A ADVANCED PURIFIED WATER FACILITY PROJECT OVERVIEW



- Indirect Potable Reuse Project
- City of Reno and TMWA partnership
- A+ water project to create a more resilient community

**APPENDIX B  
ADVANCED PURIFIED WATER  
ROADMAP**



COMMUNITY OUTREACH		2019	2020	2021	2022	2023	2024				2025				2026				2027				2028				2029	2030						
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
01	Conference and Local Board Presentations						<i>The project team will continue presenting to conferences and board officials</i>																											
02	Tours for Local Community Groups						<i>Tours during and after project construction will continue</i>																											
03	COR/TMWA Employee Education Sessions						<i>Annual employee education sessions planned</i>																											
04	Smart About Water Day, A+ Educational Booth						<i>Annual Smart About Water Day participation planned</i>																											
05	Tours of California IPR Facilities						<i>Additional tours may be arranged in the future</i>																											
06	KUNR Radio and Media Interviews						<i>Future media interviews</i>																											
07	Community Engagement Initiatives						<i>Future engagement initiatives</i>																											
08	A+ Permit Required Public Workshops																																	
09	APWF Project Outreach Public Workshops						<i>Design input</i>																											
10	Curriculum Development for Local Educators						<i>Educational curriculum for Sierra NV Journeys and other educators</i>																											
11	Mobile Educational Center Trailer Events						<i>Continued mobilization of the portable educational trailer to events</i>																											
12	Educational Center Ribbon Cutting Ceremony																																	
13	Facility Tours and APW Facility Events						<i>APWF tours</i>																											

DESIGN AND PERMITTING		2019	2020	2021	2022	2023	2024				2025				2026				2027				2028				2029	2030						
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
14	NDEP / RSWRF A+ Workshop																																	
15	AECOM Hired for Design Services																																	
16	CMAR Hired for Preconstruction Services																																	
17	NEPA and Permit Meeting at NDEP																																	
18	ICE Hired for Cost Analysis Services																																	
19	Design Review – 30% Meeting at NDEP																																	
20	Permitting Meeting at NDEP																																	
21	Plant Operations Meeting at NDEP																																	
22	Independent Expert Panel Meetings																																	
23	Phase 1 NDEP Application Package Submitted																																	
24	60% Design Set Submitted to NDEP																																	
25	Design Review – 60% Meeting at NDEP																																	
26	90% Design Set Submitted to NDEP																																	
27	Phase 1 Conditional Permits Issued by NDEP																																	
28	Design Review – 90% Meeting at NDEP																																	
29	100% Design Set Submitted to NDEP																																	
30	Authorization to Construct Issued by NDEP																																	
31	Phase 2 Permit Application Package Submitted																																	
32	Phase 3 Permit Application Package Submitted																																	

PROJECT FUNDING		2019	2020	2021	2022	2023	2024				2025				2026				2027				2028				2029	2030						
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
33	Novel Treatment Grant Applications																																	
34	\$3M EPA Community Grant Application																																	
35	\$30M BOR Title XVI Grant Application																																	
36	Submit Letter of Intent for WIFIA (COR)																																	
37	Submit Letter of Intent for CWSRF (COR)																																	
38	Submit Letter of Intent for DWSRF (TMWA)																																	
39	WIFIA and SRF Applications Preparation																																	
40	Notice of Grant Awards from BOR																																	
41	NEPA Final Environ. Report Complete																																	
42	WIFIA Loan is Secured (COR)																																	
43	SRF Loan is Secured (COR, contingency)																																	
44	GMP 1 Approved for Long Lead Items																																	
45	SRF Loan is Secured (TMWA)																																	
46	GMP 2 Approved for CMAR to Begin																																	

CONSTRUCTION		2019	2020	2021	2022	2023	2024				2025				2026				2027				2028				2029	2030						
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
47	Notice to Proceed Issued to CMAR																																	
48	Major work at RSWRF Complete																																	
49	Major work at APWF Complete																																	
50	Injection and Extraction Wells Built																																	
51	Pipeline Construction Finished																																	
52	Construction Substantially Complete																																	

STARTUP AND PHASING		2019	2020	2021	2022	2023	2024				2025				2026				2027				2028				2029	2030						
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
53	<b>Phase 1:</b> Final Connections & Plant Startup																																	
54	<b>Phase 2:</b> Injection of APWF A+ Water						<i>Actual milestone TBD</i>																											
55	<b>Phase 3:</b> Potable Use of Extracted A+ Water																																	