



C I T Y O F  
**RENO**  
Memorandum

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**DATE:** 10/3/2024

**TO:** Honorable Mayor and City Council

**THROUGH:** Jackie Bryant, Acting City Manager

**FROM:** Dustin Waters, Assistant Director of Utility Services

**DEPT:** City Manager

**SUBJECT:** Council Update on the Advanced Purified Water Facility at American Flat Project, including Project Updates, Cost Estimate, Project Funding, 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 90% design and full project implementation.

**Previous Memos to Council:**

- August 15, 2023, APWF Project Update
- October 25, 2023, APWF Project Update
- March 12, 2024, APWF Project Update

**Project Updates:**

- June 2024, \$30 million USBR Title XVI grant awarded
- August 2024, Completion of 60% project design
- August 2024, Submittal of Category A+ Permit Application and Engineering Report to the Nevada Division of Environmental Protection

## **Project Funding:**

The total project cost estimate from the 60% design is \$250.7 million, which will be split 70% Reno (\$175.5M) and 30% TMWA (\$75.2M), per the existing interlocal agreement. Total project costs increased by \$29.8 million, due to:

- Modifications to the treatment processes for redundancy and capacity
- New and longer pipeline alignment due to likely high levels of Per- and polyfluoroalkyl substances (PFAS) in the soils along the previous alignment
- New pipeline from the point of water extraction from the aquifer, to connect to the TMWA distribution system

However, \$36 million dollars of additional grant funding has been allocated to this project since the 30% project design stage. Reno and TMWA were awarded the USBR Title XVI grant funding opportunity on June 13, 2024, in the amount of \$30 million, bringing the total grant funding to date to \$39 million. Furthermore, Reno applied for the State of Nevada State Revolving Loan Fund (SRF) in June 2024, in the amount of \$70 million. Reno plans to cash fund the remainder of Reno's portion of the project construction costs.

## **Key Milestones:**

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

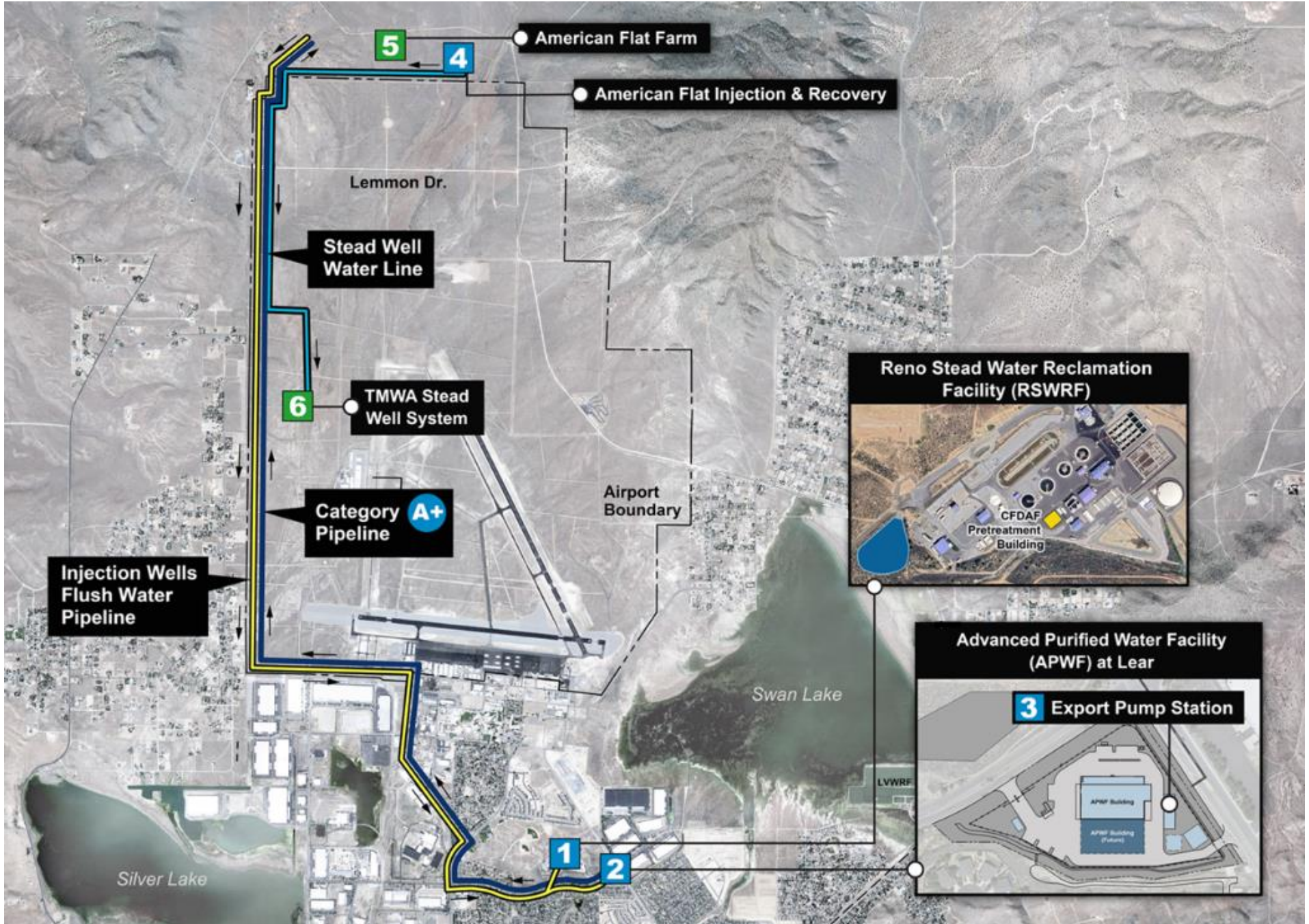
- Now - May 2025: Environmental Permitting and Final Design
- May 2025: **CMAR Guaranteed Maximum Price #1 (GMP1) for Early Procurement**
- July 2025: **CMAR Guaranteed Maximum Price #2 (GMP2) for Start of Construction Activity**
- Winter 2027/2028: Finish Construction
- December 2027 to June 2028: Startup, 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.

## **Attachments:**

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**



**APPENDIX B  
ADVANCED PURIFIED WATER FACILITY  
PROJECT 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						The project team will continue presenting to conferences and board officials																											
02	Tours for Local Community Groups						Tours during and after project construction are planned																											
03	COR/TMWA Employee Education Sessions						Annual employee education sessions planned																											
04	Smart About Water Day, A+ Educational Booth						Annual Smart About Water Day participation planned																											
05	Tours of California IPR Facilities						Additional tours may be arranged in the future																											
06	KUNR Radio and Media Interviews						Future media interviews																											
07	Community Engagement Initiatives						Future engagement initiatives																											
08	A+ Permit Required Public Workshops																																	
09	APWF Project Outreach Public Workshops						Design input																											
10	Curriculum Development for Local Educators						Educational curriculum for Sierra NV Journeys and other educators																											
11	Mobile Educational Center Trailer Events						Continued mobilization of the portable educational trailer to events																											
12	Educational Center Ribbon Cutting Ceremony																																	
13	Facility Tours and APW Facility Events						APW Facility Tours																											

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 Advisory Panel Meetings																																	
23	Permit Engineering Report Submitted						AUG 2024																											
24	60% Design Set Submitted to NDEP						AUG 2024																											
25	Design Review – 60% Meeting at NDEP						OCT 2024																											
26	90% Design Set Submitted to NDEP						APR 2025																											
27	30 Day Public Notice of Intent to Permit						MAY 2025																											
28	Design Review – 90% Meeting at NDEP						MAY 2025																											
29	100% Design Set Submitted to NDEP						JUN 2025																											
30	Permits Issued with Special Conditions						AUG 2025																											
31	UIC / A+ Report Submitted						2028																											
32	Final Engineering Report Submitted						2030																											

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 CWSRF (COR)																																	
37	Submit Letter of Intent for DWSRF (TMWA)																																	
38	SRF Applications Preparation																																	
39	Notice of Grant Awards from BOR																																	
40	NEPA Final Environ. Report Complete						NOV 2024																											
41	Clean Water SRF Loan is Secured						FEB 2025																											
42	Drinking Water SRF Loan is Secured						FEB 2025																											
43	GMP 1 Approval for Long Lead Items						JUN 2025																											
44	GMP 2 Approval for Construction to Begin						SEP 2025																											

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								
45	Notice to Proceed Issued to CMAR						SEP 2025																											
46	Major work at RSWRF Complete						AUG 2027																											
47	Major work at APWF Complete						MAY 2027																											
48	Injection and Extraction Wells Built						AUG 2027																											
49	Pipeline Construction Finished						OCT 2027																											
50	Construction Substantially Complete						Q1 2028																											

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								
51	Phase 1: Final Connections & Plant Startup																																	
52	Phase 2: Injection of APWF A+ Water						Actual milestone TBD																											
53	Phase 3: Potable Use of Extracted A+ Water																																	