TO: James L. App, City Manager

FROM: Christopher Alakel, Water Resources Manager

SUBJECT: **2010 Urban Water Management Plan**

DATE: May 17, 2011

NEEDS: To present the 2010 update of the City's Urban Water Management Plan (UWMP) in preparation for a public hearing and adoption of the plan June 21, 2011.

FACTS:

1. In accordance with California Water Code Sections 10610 through 10657 (Urban Water Management Planning Act), the City is required to prepare and submit an Urban Water Management Plan at least every five years. An adopted 2010 UWMP is required to be submitted by July 31, 2011.

2. A public hearing and adoption of the UWMP must occur 30-days prior to submittal to the California Department of Water Resources (DWR). In addition a 60-day public notification must occur prior to the hearing date. This notice and was issued on April 22, 2011 .

3. Qualification for state-funded grants and loans for water and wastewater projects is contingent upon having an UWMP on file with DWR that meets state requirements.

4. The State Water Resources Control Board (SWRCB) conditions the City's underflow permit on having a DWR-approved UWMP.

ANALYSIS & CONCLUSION: California regulations require UWMPs to be updated at least once every five years. The 2010 UWMP builds on the 2005 UWMP, accounting for changes in the Water Code, new state requirements for water conservation, and development of the Paso Robles Groundwater Basin Groundwater Management Plan.

The most significant change in the 2010 UWMP is due to the State's passage of SBx7-7, which requires that plans demonstrate how cities will achieve a 20 percent reduction in per-capita water demand by 2020. SBx7-7 requires changes to the format and presentation of UWMP information to demonstrate compliance with the 20 percent by 2020 requirement.

Demand forecasts are based on both a new state-scripted methodology (intended to establish a baseline for the 20x2020 target) and historic water use. The two forecasts provide a range of water demand and supplies needed at "build out" based General Plan land use and a population planning threshold of 44,000. Adequate water supplies to meet forecasted

demands will come from three primary sources: 1) Salinas River Underflow 2) Lake Nacimiento allocation, and 3) Paso Robles basin wells. Conservation programs and potential recycled water use, in addition to meeting state water conservation requirements, will reduce the City's dependence on Paso Robles basin wells (deep wells).

Next steps – In order to meet the state's deadline for plan adoption and submittal, a public hearing and adoption of the plan would be scheduled for June 21, 2011.

POLICY REFERENCE: Water Code Sections 10610 through 10657 (California Urban Water Management Planning Act, as amended, SBx7-7); 2005 Urban Water Management Plan.

FISCAL IMPACT: No new appropriations are needed to complete the 2010 Urban Water Management Plan.

OPTIONS: **A. Receive and File**

City of Paso Robles 2010 Urban Water Management Plan Update

Water Code Requirements

- Cities required to submit plan every 5 years
- SB 7 – 7 now requires UWMP to show how city will achieve 20 percent gpcd reduction by 2020
- Guidebook prescribes plan content and format
- Approved UWMP must be on-file to qualify for grants and loans
- Approved UWMP is a requirement of City's Salinas River underflow permit.

Two Demand Projection Methods

for 44,000 Pop. Planning Threshold

(Estimate and Target)

Estimate:

Demand based on General Plan parcel land use and per unit use rates prior to Level 2 watering restrictions.

- "Baseline" does not assume identical mix of land use demands at build-out. This methods yields a fairly conservative estimate of demand.

Target:

UWMP-State-mandated approach: 193 gpcd x 44,000

- Assumes 20% reduction in gpcd by 2020 from 10-year average ending 2008. This methods does not consider disproportional growth in one or more land use categories. This is a very aggressive demand target.

Range of Projected Water Demands at 44,000 Population

	2005	2010[2]	2015	2020	2025
Baseline Total Water Use	7,413	6,326	8,550	10,990	13,400
Potential Conservation and Recycling[3]	-	-	980	2,865	3,885
SB-7 Target Water Demands to Comply with 20% Demand Reductions by 2020[3]	-	-	7,570	8,125	9,515

Demand, Supplies, and Potential Impact of Conservation/Recycling

	Water Supplies Needed to Meet Demands - Current and Projected (AFY)						
Water Supply Sources	**2007**	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**
Basin Wells	4,103	2,338	100	990	3,400[1]	3,400[1]	3,400[1]
River Wells	4,023	3,988	4,450	4,600	4,600	4,600	4,600
Nacimiento Water	0	0	4,000	5,400	5,400	5,400	5,400
Demand Without Potential Conservation	**8,126**	**6,326**	**8,550**	**10,990**	**13,400**	**13,400**	**13,400**
Potential Conservation and Recycled Water Savings	**2007**	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**
BMP/DMM Conservation	0	61	364	1,038	1,617	1,617	1,617
Price Elasticity of Water Rates Conservation	0	0	616	1,827	1,618	1,618	1,618
Recycled Water (Phase 1 Direct Use)	0	0	0	0	650	650	650
SB-7 Target Water Demands (AFY) to Comply with 20% gpcd Demand Reduction by 2020	**Not Applicable**	**Not Applicable**	**7,570**	**8,125**	**9,515**	**9,515**	**9,515**
SB-7 Target Water Demands (gpcd)	**Not Applicable**	**Not Applicable**	**217 gpcd**	**193 gpcd**	**193 gpcd**	**193 gpcd**	**193 gpcd**

Demand/Supply
Key Points

- Importation of surface water
- Conservation
- Recycling

The key supply elements will greatly reduce dependence on the Basin and aid in achieving SB7-7 target of 193 gpcd

UWMP Summary

Keys for Providing a Reliable Supply

- Construct Nacimiento WTP
- Maintain well system as interim supply until Nacimiento WTP is on-line and as back-up
- Continue implementing short and long-term water conservation programs

UWMP Summary

Keys for Providing a Reliable Supply

- Reduce dependence on basin wells
  (basin approaching perennial yield; water levels & production are projected to decline further)
- Work with basin water users on implementing Groundwater Management Plan
  (Goal: stabilize water levels)
- Continue planning for recycled water use

UWMP – Next Steps

- Need to hold public hearing and adopt plan (Water code permits hearing/adoption at same meeting)
- Suggested date June 21