

Section 4

**Best Management Practices for
Urban**

Section 4

Background

The mission of Westlands Water District (District) is to provide a timely, reliable and affordable water supply to its landowners and water users, and to provide drainage service to those lands where it is necessary. The District's farmers are very efficient in the management and utilization of available water supplies as identified in the District's Agricultural Water Management Plan submitted to the United States Bureau of Reclamation (USBR) in September 1999.

The District does not have a USBR Municipal and Industrial (M&I) water supply contract, but does exercise provisions in its Agricultural Water Service Contract for use of water for "incidental agricultural purposes". These purposes include M&I activities incidental to agricultural operations including but not limited to single family dwellings, farm housing, commercial operations, and industrial operations.

This Urban Water Management Plan (Plan) is supplemental to the aforementioned Agricultural Water Management Plan and included in this Plan are appropriate sections from the agricultural plan. This Plan is submitted in accordance with CVPIA and the 1999 plan criteria developed by the USBR.

The water delivered for M&I purposes under this Plan is not treated, is not in a potable state, and the District does not warrant the quality of the water. A portion of the M&I supply is delivered to Public Water Systems within the District that are regulated by the State and County Department of Health Services. However, none of these suppliers is a retail supplier

The water conveyed to the Lemoore Naval Air Station (LNAS) is not subject to the provisions of this Plan since LNAS is under Department of Defense water conservation regulations. M&I water is delivered through the District's distribution system to the cities of Huron, Avenal and Coalinga, however, they are responsible to develop their own individual urban water management plans, and as such, they are not considered under this Plan.

This Plan identifies all other water uses delivered into the District that are non-agricultural. Historically the USBR and the District have categorized these uses as M&I for administrative purposes, however, this Plan provides a further categorization of "true" M&I uses and "incidental agricultural" uses under the provisions of the District's contract.

This Plan will present the required water resources information and a plan for implementing the appropriate Best Management Practices (BMP's).

Best Management Practices for Urban

1. Water Survey Programs for Single-Family and Multi-Family Residential Customers.

The District does not serve single-family or multi-family residential customers, and therefore, is exempt from this BMP.

2. Residential Plumbing Retrofit.

The District does not serve single-family or multi-family residential customers, and therefore, is exempt from this BMP.

3. System Water Audits, Leak Detection and Repair.

The District has a leak detection/monitoring program and an intensive repair program, and therefore, is in compliance with this BMP. Water is metered at the head of each of the District's laterals and at each delivery outlet meter. A prescreening system audit is performed monthly to compare total deliveries to a lateral with the total deliveries from the lateral. The District meter calibration program shows that the accuracy for meters in the district averages about +/-2%. Surfacing of leaks is apparent since there are few asphalt or concrete soil coverings within the 1,000 square mile district. Lateral crossings of roads are systematically being replaced with steel pipe. All leaks are repaired as soon as possible.

4. Metering with Commodity Rates, for all New Connections and Retrofit of Existing Connections.

All water is metered by the District and is billed by the amount delivered in accordance with the rates shown in Section 1G. The District is in compliance with this BMP.

5. Large Landscape Conservation Programs and Incentives.

The District does not have large landscaping, and therefore, is exempt from this BMP.

6. High-Efficiency Washing Machine Rebate Programs.

The District does not serve single-family or multi-family residential customers, and therefore, is exempt from this BMP.

7. Public Information Programs.

The District has a substantial water conservation program effort for agricultural water use that has been in place since 1981, and for nearly 10 years, has been including M&I water use in its public information outreach. The District is in compliance with this BMP.

8. School Education Programs.

As part of its water conservation public information program, the District provides resource information and presentations to public schools in the surrounding area. The District is in compliance with this BMP.

9. Conservation Programs for Commercial, Industrial and Institutional (CII) Accounts.

The District will expand its public information program to provide conservation information to all water user accounts including CII accounts. District staff will coordinate with USBR staff to apply for USBR grants to develop and facilitate this BMP. It is expected that the program will utilize information packets and conservation programs from the USBR. The purpose will be to call attention to ways that water can be conserved and to facilitate audits that will identify areas that can benefit from water conservation efforts by the individual CII water user.

10. Wholesale Agency Assistance Programs .

The District delivers water directly to the end user and is not a wholesale agency, and therefore, is exempt from the BMP.

11. Conservation Pricing.

All water is metered by the District and is billed by the amount delivered in accordance with the rates shown in Section 1G. The District is in compliance with this BMP.

12. Conservation Coordinator.

The District’s coordinator is Russ Freeman, Supervisor of Resources Management, (559) 241-6241. The District is complying with this BMP.

13. Water Waste Prohibition

District regulations, Article 2, Section 2.6, paragraph I, prohibits the waste of water by the District’s water users. The District is in compliance with this BMP.

14. Residential Ultra Low Flow Toilet Replacement Programs .

The District does not serve single-family or multi-family residential customers, and therefore, is exempt from this BMP.

Table 33. 2001 Year Budget and Staff Time Summary

<u>BMP#</u>	<u>BMP Name</u>	<u>Est. Budget*</u>	<u>Est. Staff Time (hrs.)</u>
1	Residential Audits	N/A	
2	Residential Retrofit	N/A	
3	System Water Audit & Leak Detection Conservation	Budgeted outside of Water	
4	Metering w/Commodity Rates Conservation	Budgeted outside of Water	
5	Landscape Water Audits	N/A	
6	Washing Machine Rebates	N/A	
7	Public Information	\$2,500	0.05 full-time equivalent
8	School Education Program	\$2,500	0.05 full-time equivalent
9	CII Conservation Programs	\$2,500	0.05 full-time equivalent
10	Wholesale Agency Programs	N/A	

11	Conservation Pricing	Budgeted outside of Water
	Conservation	
12	Conservation Coordinator	\$3,000 0.05 full-time equivalent
13	Water Waste Prohibition	Budgeted outside of Water
	Conservation	
14	ULFT Program	<u>N/A</u>
	Total	\$10,500

Table 34. 2002 Budget and Staff Time Summary

BMP#	BMP Name	Est. Budget*	Est. Staff Time (hrs.)
1	Residential Audits	N/A	
2	Residential Retrofit	N/A	
3	System Water Audit & Leak Detection Conservation	Budgeted outside of Water	
4	Metering w/Commodity Rates Conservation	Budgeted outside of Water	
5	Landscape Water Audits	N/A	
6	Washing Machine Rebates	N/A	
7	Public Information equivalent	\$2,625	0.05 full-time
8	School Education Program equivalent	\$2,625	0.05 full-time
9	CII Conservation Programs equivalent	\$2,625	0.05 full-time
10	Wholesale Agency Programs	N/A	
11	Conservation Pricing Conservation	Budgeted outside of Water	
12	Conservation Coordinator equivalent	\$3,150	0.05 full-time
13	Water Waste Prohibition Conservation	Budgeted outside of Water	
14	ULFT Program	<u>N/A</u>	
	Total	\$11,025	

Table 35. 2003 Budget and Staff Time Summary

BMP#	BMP Name	Est. Budget*	Est. Staff Time (hrs.)
1	Residential Audits	N/A	
2	Residential Retrofit	N/A	
3	System Water Audit & Leak Detection Conservation	Budgeted outside of Water	
4	Metering w/Commodity Rates Conservation	Budgeted outside of Water	
5	Landscape Water Audits	N/A	
6	Washing Machine Rebates	N/A	
7	Public Information equivalent	\$2,756	0.05 full-time
8	School Education Program equivalent	\$2,756	0.05 full-time

9	CII Conservation Programs equivalent	\$2,756	0.05 full-time
10	Wholesale Agency Programs	N/A	
11	Conservation Pricing Conservation	Budgeted outside of Water	
12	Conservation Coordinator equivalent	\$3,308	0.05 full-time
13	Water Waste Prohibition Conservation	Budgeted outside of Water	
14	ULFT Program	<u>N/A</u>	
	Total	\$11,576	

*Staff Time is included in budgeted amounts. Subsequent years include 5% increases.