

(District Name)
Water Management Plan

Date of first draft – (date)
Date of final – (date)

Index

	<u>Page</u>
Section 1: Description of the District.....	3
Section 2: Inventory of Water Resources.....	
Section 3: Best Management Practices (BMPs) for Agricultural Contractors	
Section 4: Best Management Practices for Urban Contractors.....	
District Water Inventory Tables.....	
Attachment A District Facilities Map.....	
Attachment B District Soils Map.....	
Attachment C District Rules and Regulations	
Attachment D District Sample Bills.....	
Attachment E District Water Shortage Plan.....	
Attachment F District Map of Groundwater Facilities	
Attachment G Groundwater Management Plan.....	
Attachment H Groundwater Banking Plan	
Attachment I District Annual Water Quality Report	
Attachment J Notices of District Education Programs and Services Available to Customers.....	
Attachment K District Agricultural Water Order form	
Attachment X Other (define)	
Attachment Y Other (define)	
Attachment Z Other (define)	

Section 1: Description of the District

District Name: _____

Contact Name: _____ Title: _____

Telephone: _____ E-mail: _____

A. History

1. Date district formed: _____ Date of first Reclamation contract: _____
 Original size (acres): _____ Current year (last complete calendar year): _____

2. Current size, population, and irrigated acres

	Current Year
Size (acres)	
Population served	
Irrigated acres	

3. Water supplies received in current year

Water Source	AF
Federal urban water	
Federal agricultural water	
State water	
Other Wholesaler (define)	
Local surface water	
Upslope drain water	
District ground water	
Transferred water	
Recycled water	
Other (define)	
<i>Total</i>	

4. Annual entitlement under each right and/or contract

	AF	Source	Contract #	Contract Restrictions
USBR Urban AF/Y				
USBR Agriculture AF/Y				
Other AF/Y				
Other AF/Y				

5. Anticipated land-use changes

6. Cropping patterns (Agric only)

List of current crops (crops with 5% or less of total acreage can be combined in the 'Other' category).

<i>Original Plan</i>		<i>Previous Plan</i>		<i>Current Plan</i>	
<i>Crop Name</i>	<i>Acres</i>	<i>Crop Name</i>	<i>Acres</i>	<i>Crop Name</i>	<i>Acres</i>
<i>Other (<5%)</i>		<i>Other (<5%)</i>		<i>Other (<5%)</i>	
<i>Total</i>		<i>Total</i>		<i>Total</i>	

(See Appendix C for list of crop names)

7. Major irrigation methods (by acreage) (Agric only)

<i>Original Plan</i>		<i>Previous Plan</i>		<i>Current Plan</i>	
<i>Irrigation Method</i>	<i>Acres</i>	<i>Irrigation Method</i>	<i>Acres</i>	<i>Irrigation Method</i>	<i>Acres</i>
<i>Other</i>		<i>Other</i>		<i>Other</i>	
<i>Total</i>		<i>Total</i>		<i>Total</i>	

(See Appendix C for list of irrigation system types)

B. Location and Facilities

Attachment A shows points of delivery, turnouts (internal flow), and outflow (spill) points, measurement locations, conveyance system, storage facilities, operational loss recovery system, wells, and water quality monitoring locations

1. Incoming measurement methods and locations

<i>Incoming Locations</i>	<i>Type of Measurement Device</i>	<i>Accuracy</i>

2. Current year Agricultural Conveyance System

<i>Miles Unlined - Canal</i>	<i>Miles Lined - Canal</i>	<i>Miles Piped</i>	<i>Miles - Other</i>

3 *Current year Urban Distribution System*

<i>Miles AC Pipe</i>	<i>Miles Steel Pipe</i>	<i>Miles Cast Iron Pipe</i>	<i>Miles - Other</i>

4. *Storage facilities*

5. *Description of the agricultural spill recovery system*

6. *Agricultural delivery system operation*

7. *Restrictions on water source(s)*

<i>Source</i>	<i>Restriction</i>	<i>Cause of Restriction</i>	<i>Effect on Operations</i>

8. *Proposed changes or additions to facilities and operations for the next 5 years*

C. Topography and Soils

1. *Topography of the district and its impact on water operations and management*

2. *District soil associations (Agric only)*

<i>Soil Association</i>	<i>Estimated Acres</i>	<i>Effect on Water Operations and Management</i>

See Attachment B, District Soils Map

3. *Agricultural limitations resulting from soil problems (Agric only)*

<i>Soil Problem</i>	<i>Estimated Acres</i>	<i>Effect on Water Operations and Management</i>

D. Climate

1. *General climate of the district service area*

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual</i>
<i>Avg Precip.</i>													
<i>Avg Temp.</i>													
<i>Max. Temp.</i>													
<i>Min. Temp</i>													
<i>ETo</i>													

Weather station ID _____ *Data period: Year* _____ *to Year* _____

Average wind velocity _____ *Average annual frost-free days:* _____

2. *Impact of microclimates on water management within the service area*

E. Natural and Cultural Resources

1. *Natural resource areas within the service area*

<i>Name</i>	<i>Estimated Acres</i>	<i>Description</i>

2. *Description of district management of these resources in the past or present*

3. *Recreational and/or cultural resources areas within the service area*

<i>Name</i>	<i>Estimated Acres</i>	<i>Description</i>

F. Operating Rules and Regulations

1. *Operating rules and regulations*

See Attachment C, District Rules and Regulations

2. *Agricultural water allocation policy*
 See Attachment C, Page xx
 Summary -

3. *Official and actual lead times necessary for water orders and shut-off (Agric only)*
 See Attachment C, Page xx
 Summary -

4. *Policies regarding surface and subsurface drainage from farms (Agric only)*
 See Attachment C, Page xx
 Summary -

5. *Policies on water transfers by the district and its customers*
 See Attachment C, Page xx
 Summary -

G. Water Measurement, Pricing, and Billing

Agricultural Customers

1. *Number of farms* _____
2. *Number of delivery points (turnouts and connections)* _____
3. *Number of delivery points serving more than one farm* _____
4. *Number of measured delivery points (meters and measurement devices)* _____
5. *Percentage of delivered water that was measured at a delivery point* _____

6. *Delivery point measurement device table (Agric only)*

<i>Measurement Type</i>	<i>Number</i>	<i>Accuracy (+/- percentage)</i>	<i>Reading Frequency (Days)</i>	<i>Calibration Frequency (Months)</i>	<i>Maintenance Frequency (Months)</i>
<i>Orifices</i>					
<i>Propeller meter</i>					
<i>Weirs</i>					
<i>Flumes</i>					
<i>Venturi</i>					
<i>Metered gates</i>					
<i>Other (define)</i>					
<i>Total</i>					

Urban Customers

1. Total number of connections _____
2. Total number of metered connections _____
3. Total number of connections not billed by quantity _____
4. Percentage of water that was measured at delivery point _____
5. Percentage of delivered water that was billed by quantity _____

6. Measurement device table

Meter Size and Type	Number	Accuracy (+/-percentage)	Reading Frequency (Days)	Calibration Frequency (Months)	Maintenance Frequency (Months)
5/8-3/4"					
1"					
1 1/2"					
2"					
3"					
4"					
6"					
8"					
10"					
Compound					
Turbo					
Other (define)					
Total					

Agriculture and Urban Customers

1. Current year agriculture and /or urban water charges - including rate structures and billing frequency
See Attachment C, Page XX, for current year rate ordinance

2. Annual charges collected from customers (current year data)

Charges (\$ unit)	Charge units (\$/af), (\$/ acre), (\$/hcf), (\$/customer) etc.	Units billed during year (af, acres, hcf, customer) etc.	\$ collected (\$ times units)
Fixed Charges			

Volumetric charges			
<i>Charges (\$ unit)</i>	<i>Charge units (\$/af), (\$/ acre), (\$/hcf), (\$/customer) etc.</i>	<i>Units billed during year (af, acres, hcf, customer) etc.</i>	<i>\$ collected (\$ times units)</i>

3. *Water-use data accounting procedures*
See Attachment D, District Sample Bills

H. Water Shortage Allocation Policies

1. *Current year water shortage policies or shortage response plan - specifying how reduced water supplies are allocated*

See Attachment E, District Water Shortage Plan

2. *Current year policies that address wasteful use of water and enforcement methods*

See Attachment C, Page XX

Section 2: Inventory of Water Resources

A. Surface Water Supply

1. *Acre-foot amounts of surface water delivered to the district by each of the district sources*
See Water Inventory Tables, Table 1

2. *Amount of water delivered to the district by each of the district sources for the last 10 years*
See Water Inventory Tables, Table 8

B. Ground Water Supply

1. *Acre-foot amounts of ground water pumped and delivered by the district*
See Water Inventory Tables, Table 2

2. *Ground water basin(s) that underlies the service area*

<i>Name</i>	<i>Size (Square Miles)</i>	<i>Usable Capacity (AF)</i>	<i>Safe Yield (AF/Y)</i>

3. *Map of district-operated wells and managed ground water recharge areas*
See Attachment F, District Map of Groundwater Facilities

4. *Description of conjunctive use of surface and ground water*

5. *Ground Water Management Plan*
See Attachment G, Groundwater Management Plan

6. *Ground Water Banking Plan*
See Attachment H, Groundwater Banking Plan

C. Other Water Supplies

1. *“Other” water used as part of the water supply*
See the Water Inventory Tables, Table 1

D. Source Water Quality Monitoring Practices

1. *Surface water and/or ground water quality problems, and how the quality problems limit the use of that source or affect customer use decisions*

2. *Potable Water Quality (Urban only)*

See Attachment I – District Annual Water Quality Report

3. *Agricultural water quality concerns:* Yes _____ No _____
 (Describe)

4. *Description of the agricultural water quality testing program and the role of each participant, including the district, in the program*

5. *Current water quality monitoring programs for surface water by source (Agric only)*

<i>Analyses Performed</i>	<i>Frequency Range</i>	<i>Concentration Range</i>	<i>Average</i>

Current water quality monitoring programs for groundwater by source (Agric only)

<i>Analyses Performed</i>	<i>Frequency Range</i>	<i>Concentration Range</i>	<i>Average</i>

6. *Current year total dissolve solid range for surface water and ground water (Agric only)*
Surface water: _____ ppm *Ground water:* _____ ppm

E. Water Uses Within the District

1. *Agricultural*

See Water Inventory Tables, Table 5 - Crop Water Needs

2. *Types of irrigation systems used for each crop in current year*

<i>Crop name</i>	<i>Total Acres</i>	<i>Basin - acres</i>	<i>Furrow - acres</i>	<i>Sprinkler - acres</i>	<i>Low Volume - acres</i>	<i>Multiple methods -ac</i>

3. Urban use by customer type in current year

<i>Customer Type</i>	<i>Number of Connections</i>	<i>(AF)</i>
<i>Single-family</i>		
<i>Multi-family</i>		
<i>Commercial</i>		
<i>Industrial</i>		
<i>Institutional</i>		
<i>Landscape irrigation</i>		
<i>Wholesale</i>		
<i>Recycled</i>		
<i>Other (specify)</i>		
<i>Other (specify)</i>		
<i>Other (specify)</i>		
<i>Unaccounted for</i>		
Total		

4. Urban Wastewater Collection/Treatment Systems serving the service area – current year

<i>Treatment Plant</i>	<i>Treatment Level (1, 2, 3)</i>	<i>AF</i>	<i>Disposal to / uses</i>
	Total		
Total discharged to ocean	and/ or saline sink		

5. Ground water recharge / management / banking in current year (Table 6)

<i>Recharge Area</i>	<i>Method of Recharge</i>	<i>(AF)</i>	<i>Method of Retrieval</i>
	Total		

6. Transfers and exchanges into or out of the service area in current year (Table 6)

<i>From Whom</i>	<i>To Whom</i>	<i>(AF)</i>	<i>Use</i>

7. *Trades, wheeling, wet/dry year exchanges or other transactions in current year (Table 6)*

<i>From Whom</i>	<i>To Whom</i>	<i>(AF)</i>	<i>Use</i>

8. *Other uses of water in current year*

<i>Other Uses</i>	<i>AF</i>

F. Irrigation Drainage from the Service area (Table 7) (Ag only)

Districts included in the drainage problem area, as identified in “A Management Plan for Agricultural Subsurface Drainage and Related Problems on the Westside San Joaquin Valley (September 1990),” should also complete Section 3 D.

See Facilities Map, Attachment A, for the location of surface and subsurface outflow points, outflow measurement points, outflow water-quality testing locations

1. *Surface and subsurface drain / return flows in current year*

<i>Drain Location</i>	<i>(AF)</i>	<i>Types of Uses</i>
Total		

2. *Description of the Drainage water quality testing program and the role of each participant in the program*

3. *Drainage Water (surface and subsurface) Quality Testing Program*

<i>Analyses Performed</i>	<i>Concentration Range</i>	<i>Frequency Range</i>	<i>Average</i>

4. Usage limitation resulting from drainage water quality

<i>Constituent</i>	<i>Usage Limitation</i>

G. Water Accounting (Inventory)

1. *Water Supplies Quantified*

- a. *Surface water supplies, imported and originating within the service area, by month (Table 1)*
- b. *Ground water extracted by the district, by month (Table 2)*
- c. *Effective precipitation by crop (Table 5)*
- d. *Estimated annual ground water extracted by non-district parties (Table 2)*
- e. *Recycled urban wastewater, by month (Table 3)*
- f. *Other supplies, by month (Table 1)*

2. *Water Used Quantified*

- a. *Agric. conveyance losses, including seepage, evaporation, and operational spills in canal systems (Agric. Table 4) or
Urban leaks, breaks and flushing/fire uses in piped systems (Urban Table 4)*
- b. *Consumptive use by riparian vegetation or environmental use (Table 6)*
- c. *Applied irrigation water - crop ET, water used for leaching / cultural practices (e.g., frost protection, soil reclamation, etc.) (Table 5)*
- d. *Urban water use (Table 6)*
- e. *Ground water recharge (Table 6)*
- f. *Water exchanges and transfers (Table 6)*
- g. *Estimated deep percolation within the service area (Agric. Table 6)*
- h. *Flows to perched water table or saline sink (Agric. Table 7)*
- i. *Irrigation spill or drain water leaving the District (Agric. Table 6)*
- j. *Other*

3. *Overall Water Inventory*

- a. *Table 6*

Section 3: Best Management Practices (BMPs) for Agricultural Contractors

A. Critical Agricultural BMPs

1. *Measure the volume of water delivered by the district to each turnout with devices that are operated and maintained to a reasonable degree of accuracy, under most conditions, to +/- 6 percent*

Number of turnouts that are unmeasured or do not meet the standards listed above: _____

Number of measurement devices installed last year: _____

Number of measurement devices installed this year: _____

Number of measurement devices to be installed next year: _____

<i>Types of Measurement Devices Being Installed</i>	<i>Accuracy</i>	<i>Total Installed During Current Year</i>

2. *Designate a water conservation coordinator to develop and implement the Plan and develop progress reports*

Name: _____ *Title:* _____

Address: _____

Telephone: _____ *E-mail:* _____

3. *Provide or support the availability of water management services to water users*
See Attachment J, Notices of District Education Programs and Services Available to Customers.

a. On-Farm Evaluations

- 1) On farm irrigation and drainage system evaluations using a mobile lab type assessment

	<i>Total in district</i>	<i># surveyed last year</i>	<i># surveyed in current year</i>	<i># projected for next year</i>	<i># projected 2nd yr in future</i>
<i>Irrigated acres</i>					
<i>Number of farms</i>					

- 2) Timely field and crop-specific water delivery information to the water user

b. Real-time and normal irrigation scheduling and crop ET information

c. Surface, ground, and drainage water quantity and quality data provided to water users

d. Agricultural water management educational programs and materials for farmers, staff, and the public

<i>Program</i>	<i>Co-Funders (If Any)</i>	<i>Yearly Targets</i>

See Attachment J for samples of provided materials and notices

4. Pricing structure - based at least in part on quantity delivered

5. Evaluate the need for changes in policies of the institutions to which the district is subject

6. Evaluate and improve efficiencies of district pumps

B. Exemptible BMPs for Agricultural Contractors

(See Attachment B for examples of exemptible conditions)

1. Facilitate alternative land use

<i>Drainage Characteristic</i>	<i>Acreage</i>	<i>Potential Alternate Uses</i>
<i>High water table (<5 feet)</i>		
<i>Poor drainage</i>		
<i>Ground water Selenium concentration > 50 ppb</i>		
<i>Poor productivity</i>		

2. Facilitate use of available recycled urban wastewater that otherwise would not be used beneficially, meets all health and safety criteria, and does not cause harm to crops or soils

<i>Sources of Recycled Urban Waste Water</i>	<i>AF/Y Available</i>	<i>AF/Y Currently Used in District</i>

3. Facilitate the financing of capital improvements for on-farm irrigation systems

4. Incentive pricing

5. a) Line or pipe ditches and canals

<i>Canal/Lateral (Reach)</i>	<i>Type of Improvement</i>	<i>Number of Miles in Reach</i>	<i>Estimated Seepage (AF/Y)</i>	<i>Accomplished/Planned Date</i>

b) Regulatory reservoirs

<i>Reservoir Name</i>	<i>Annual Spill in Section (AF/Y)</i>	<i>Estimated Spill Recovery (AF/Y)</i>	<i>Accomplished/Planned Date</i>

6. Increase flexibility in water ordering by, and delivery to, water users

See Attachment K – District Agricultural Water Order form

7. *Construct and operate district spill and tailwater recovery systems*

<i>Distribution System Lateral</i>	<i>Annual Spill (AF/Y)</i>	<i>Quantity Recovered and reused (AF/Y)</i>
Total		

<i>Drainage System Lateral</i>	<i>Annual Drainage Outflow (AF/Y)</i>	<i>Quantity Recovered and reused (AF/Y)</i>
Total		

8. *Optimize conjunctive use of surface and ground water*

9. *Automate canal structures*

10. *Facilitate or promote water customer pump testing and evaluation*

See Attachment J, Notices of District Education Programs and Services Available to Customers

C. Provide a 3-Year Budget for Implementing BMPs

1. Amount actually spent during current year.

<i>BMP #</i>	<i>BMP Name</i>	<i>Actual Expenditure (not including staff time)</i>	<i>Staff Hours</i>
A1	Measurement	\$0	0
2	Conservation staff	\$0	0
3	On-farm evaluations / water delivery info	\$0	0
	Irrigation Scheduling	\$0	0
	Water quality	\$0	0
	Agricultural Education Program	\$0	0
4	Quantity pricing	\$0	0
5	Policy changes	\$0	0
6	Contractor's pumps	\$0	0
B1	Alternative land use	\$0	0
2	Urban recycled water use	\$0	0
3	Financing of on-farm improvements	\$0	0
4	Incentive pricing	\$0	0
5	Line or pipe canals/install reservoirs	\$0	0
6	Increase delivery flexibility	\$0	0
7	District spill/tailwater recovery systems	\$0	0
8	Optimize conjunctive use	\$0	0
9	Automate canal structures	\$0	0
10	Customer pump testing	\$0	0
	<i>Total</i>	\$0	0

2. Projected budget summary for the next year.

<i>BMP #</i>	<i>BMP Name</i>	<i>Budgeted Expenditure (not including staff time)</i>	<i>Staff Hours</i>
A1	Measurement	\$0	0
2	Conservation staff	\$0	0
3	On-farm evaluations / water delivery info	\$0	0
	Irrigation Scheduling	\$0	0
	Water quality	\$0	0
	Agricultural Education Program	\$0	0
4	Quantity pricing	\$0	0
5	Policy changes	\$0	0
6	Contractor's pumps	\$0	0
B1	Alternative land use	\$0	0
2	Urban recycled water use	\$0	0
3	Financing of on-farm improvements	\$0	0
4	Incentive pricing	\$0	0
5	Line or pipe canals/install reservoirs	\$0	0
6	Increase delivery flexibility	\$0	0
7	District spill/tailwater recovery systems	\$0	0
8	Optimize conjunctive use	\$0	0

9	<i>Automate canal structures</i>	\$0	0
10	<i>Customer pump testing</i>	<u>\$0</u>	<u>0</u>
	<i>Total</i>	\$0	0

3. *Projected budget summary for 3rd year.*

<i>BMP #</i>	<i>BMP Name</i>	<i>Budgeted Expenditure (not including staff time)</i>	<i>Staff Hours</i>
A1	<i>Measurement</i>	\$0	0
2	<i>Conservation staff</i>	\$0	0
3	<i>On-farm evaluations / water delivery info</i>	\$0	0
	<i>Irrigation Scheduling</i>	\$0	0
	<i>Water quality</i>	\$0	0
	<i>Agricultural Education Program</i>	\$0	0
4	<i>Quantity pricing</i>	\$0	0
5	<i>Policy changes</i>	\$0	0
6	<i>Contractor's pumps</i>	\$0	0
B1	<i>Alternative land use</i>	\$0	0
2	<i>Urban recycled water use</i>	\$0	0
3	<i>Financing of on-farm improvements</i>	\$0	0
4	<i>Incentive pricing</i>	\$0	0
5	<i>Line or pipe canals/install reservoirs</i>	\$0	0
6	<i>Increase delivery flexibility</i>	\$0	0
7	<i>District spill/tailwater recovery systems</i>	\$0	0
8	<i>Optimize conjunctive use</i>	\$0	0
9	<i>Automate canal structures</i>	\$0	0
10	<i>Customer pump testing</i>	<u>\$0</u>	<u>0</u>
	<i>Total</i>	\$0	0

D. Drainage Problem Area Programs

(for districts located in the drainage problem area, as defined in Attachment A)

The following programs have been incorporated in the district water conservation programs to improve conditions in the drainage problem areas.

<i>Activity</i>	<i>Program Description</i>	<i>Budget</i>	<i>Results</i>
<i>Source Control</i>			
<i>Land Retirement</i>			
<i>Drainage Water Treatment</i>			
<i>Drainage Water Reuse</i>			
<i>Shallow Groundwater Pumping</i>			
<i>Evaporation Ponds</i>			

The following programs were not been implemented because:

E. District Quantifiable Objectives (QOs)

(QOs for each district are identified in the QO Agency document in the Planner, Chapter 10)

Discussion of District participation in the QOs that apply to the District (see

<i>Name of QO</i>	<i>Related BMP</i>	<i>Interest in Outside Funding</i>	<i>Agency Role</i>

Section 4: Best Management Practices for Urban Contractors

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

Program description –

Enter the number of surveys conducted in passed years and the projected number for future years.

<i>Residential type</i>	<i>yr target</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>
SF accts -								
MF units -								

2. Residential Plumbing Retrofit

Program description –

Enter the number of showerheads distributed in the past and the projected number for future years

<i>Residential type</i>	<i>yr target</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>
SF accts -								
MF units -								

3. System Water Audits, Leak Detection, and Repair

Program description –

Enter the AF of water purchased and lost in the past and the projected amount in future years

	<i>2003</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>
<i>Total Water AF</i>							
<i>Unaccounted for AF</i>							
<i>% UAW</i>							

4. Metering with Commodity Rates for all New Connections and Retrofit of Existing Connections (NOT EXEMPTIBLE)

Program description –

Number of unmetered connections _____

Number of connections not billed by quantity _____

5. Large Landscape Conservation Programs and Incentives

Program description –

Enter the number of landscape budgets/audits in passed years & the projected number for future years

<i>irrigation type</i>	<i>yr target</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>
Dedicated meters -								

Mixed use meters -								
--------------------	--	--	--	--	--	--	--	--

6. *High-Efficiency Washing Machine Rebate Programs*

Program description –

Enter the number of rebates paid in passed years & the projected number for future years

\$ rebate	2003	2004	2005	2006	2007	2008	2009
\$							

7. *Public Information Programs (Attach samples)*

Program description –

8. *School Education Programs (Attach samples)*

Program description –

9. *Conservation Programs for CII Accounts*

Program description –

Enter the number of surveys conducted in passed years & the projected number for future years

Customer type	yr target	2003	2004	2005	2006	2007	2008	2009
Comm accts -								
Indust. accts -								
Instit. accts -								

10. *Wholesale Agency Assistance Programs*

Program description –

11. *Conservation Pricing*

Program description –

12. *Conservation Coordinator*

Name: _____ Title: _____

Address: _____

Telephone: _____ E-mail: _____

13. *Water Waste Prohibition*

10	<i>Wholesale Agency Programs</i>	\$0	0
11	<i>Conservation Pricing</i>	\$0	0
12	<i>Conservation Coordinator</i>	\$0	0
13	<i>Water Waste Prohibition</i>	\$0	0
14	<i>ULFT Program</i>	\$0	0
	<i>Total</i>	\$0	0

Projected Budget for 3rd Year

Year		Actual Expenditures	
BMP #	BMP Name	(not including staff hours)	Staff Hours
1	<i>Residential Water Audits</i>	\$0	0
2	<i>Residential Retrofit</i>	\$0	0
3	<i>System Water Audit and Leak Detection</i>	<i>Not WC budget</i>	
4	<i>Metering w/Commodity Rates</i>	\$0	0
5	<i>Landscape Water Audits</i>	\$0	0
6	<i>Washing Machine Rebates</i>	\$0	0
7	<i>Public Information</i>	\$0	0
8	<i>School Education Program</i>	\$0	0
9	<i>CII Conservation Programs</i>	\$0	0
10	<i>Wholesale Agency Programs</i>	\$0	0
11	<i>Conservation Pricing</i>	\$0	0
12	<i>Conservation Coordinator</i>	\$0	0
13	<i>Water Waste Prohibition</i>	\$0	0
14	<i>ULFT Program</i>	\$0	0
	<i>Total</i>	\$0	0

Attachment A

Information Required of Contractors Located in a Drainage Problem Area

Contractor's included in the drainage problem area, as identified in A Management Plan for Agricultural Subsurface Drainage and Related Problems on the Westside San Joaquin Valley (September 1990), are listed, by sub-area, below. If future editions of the drainage report revise the boundaries of a drainage problem area or other factors used to determine which districts are in a drainage problem area, Reclamation will revise Attachment A to conform with the current drainage report.

1. Reclamation districts in the **Grasslands subarea**: Broadview Water District, Central California Irrigation District, Del Puerto Water District, Firebaugh Canal Water District, Mercy Springs Water District, Pacheco Water District, Panoche Water District, San Luis Canal Company, and San Luis Water District.
2. Reclamation districts in the **Westlands subarea**: James Irrigation District, Tranquillity Irrigation District, and Westlands Water District.
3. Reclamation districts in the **Tulare subarea**: Alpaugh Irrigation District, Atwell Island Water District, Lower Tule River Irrigation District, and Pixley Irrigation District.
4. Reclamation districts in the **Kern subarea**: Alpaugh Irrigation District.

Contractors listed above shall describe which recommendations prescribed in A Management Plan for Agricultural Subsurface Drainage and Related Problems on the Westside San Joaquin Valley (September 1990) have been incorporated in their water conservation programs to improve conditions in drainage problem areas. These recommendations include:

1. Source Control
2. Land Retirement
3. Drainage Water Treatment
4. Drainage Water Reuse
5. Shallow Ground water Pumping
6. Evaporation Ponds

Provide a description and level of expenditure for each activity designed to address the recommendations of the San Joaquin Valley Drainage Program. Identify how implementation of the recommendations has or will substantially reduce deep percolation on drainage problem lands. Describe which recommendations have not been implemented and why.

Attachment B
Agricultural Exemptible BMPs

To establish that a BMP is not applicable to the district, the Plan should explain the reasons why the BMP does not apply to the district. This justification must be consistent with Section 1 of the Criteria entitled, “Describe the District.” Examples of N/A for each exemptible BMP are listed below. This list is not all-inclusive.

Section 3. B. Exemptible BMPs for Agricultural Contractors

1. Facilitate Alternative Land Use - *N/A could include: Districts without irrigable lands that have exceptionally high water duties or whose irrigation does not contribute to significant problems.*
2. Facilitate use of available recycled water that otherwise would not be used beneficially, meets all health and safety criteria, and does not cause harm to crops or soils - *N/A could include: Completely piped systems that do not have delivery constraints.*
3. Facilitate the financing of capital improvements for on-farm irrigation systems - *None identified.*
4. Incentive pricing - *District that receives only class 2 water.*
5. a) Line or pipe ditches and canals - *N/A could include: Completely piped systems, unlined systems or sections or systems that are used as part of a planned conjunctive use program.*

b) Regulatory reservoirs - *N/A could include: Completely piped systems that do not have delivery constraints.*
6. Increase flexibility in water ordering by, and delivery to, the water users within operational limits - *None identified.*
7. Construct and operate district spill and tailwater recovery systems - *N/A could include: Completely piped systems that do not have delivery constraints.*
8. Optimize conjunctive use of surface and ground water - *N/A could include: Districts that do not overlie a useable ground water basin and neither the district or its customers pump or use ground water.*
9. Automate canal structures - *N/A could include: Completely piped systems that do not have delivery constraints.*

Attachment C
Quantifiable Objectives

Assess Quantifiable Objectives(QOs). CALFED is developing QOs that provide incentives for participation in implementing Water Management activities by water users including Contractors. These activities may or may not directly benefit the water user/Contractor. If there are CALFED QOs that apply to the geographic location of your district lands, identify the QOs that apply to the district and comment on potential for Contractor participation. Reclamation's Area Office and Regional Office will have the latest copy of QOs listed by Contractor. Evaluate and comment on any BMP or practice that is complementary, or could be complementary to the QOs in the District.

Attachment D

Crop List

barley
corn - field
oats
rice
sorghum
wheat
other cereals

alfalfa
clover
irrigated pasture
other hay
silage
other forage

cotton
hops
safflower
sugar beats
soybeans
other field crops

asparagus
beans
broccoli

cabbage
carrots
cauliflower
celery
corn
cucumbers
garlic
greens
lettuce
melons
onions
peas
peppers
potatoes
squash
tomatoes
other vegetables

Sudan grass
Bermuda grass
other grasses

apples
apricots
avocados

berries (all kinds)
cherries
grapefruit
lemon / limes
oranges / tangerines
dates
grapes
olives
peaches
pears
prunes / plums
strawberries
other fruits

almonds
pecans
pistachios
walnuts
other nut trees

ornamental nursery
joboba
other

Irrigation Methods List

Level basin
Furrow
Sprinkler
Low Volume
Multiple (combination of two methods)