

# COMMUNITY WATER SYSTEMS

## SYSTEM WATER PLAN

### FIVE YEAR UPDATE 2012

ARIZONA DEPARTMENT OF WATER RESOURCES

Community Water System Name

Community Water System Number

- **System water plan updates for large systems (serving >1850 people) are due by February 1, 2012.**
- System water plan updates for small systems will be due in January 2013.

*Pursuant to A.R.S. § 45-342, community water systems are required to submit a system water plan update every five years. The system water plan has three components: water supply plan, water conservation plan and drought preparedness plan. Instructions are listed under each section of this form*

NOTE: If any information pre-printed on this form is incorrect, please make the needed corrections. All parts must be completed.

## PART 1 – WATER SUPPLY PLAN UPDATE

*Systems with a Designation of Assured Water Supply may skip this section.*

*Please complete the following section. Attach additional sheets, data, and maps as needed.*

### A. Service Area Lands

1. Describe the area you serve. **If you serve more than 1,850 people, you must also submit a map** unless you have already submitted a service area map pursuant to A.R.S. § 498. The map or description should describe or show the boundaries of your service area, interconnections, and transmission and distribution lines. (The map may also show streets, town limits, landmarks, etc.).
2. Type of area served (consider majority of area served). Please check all that apply:
  - Residential Single Family
  - Mixed Uses (Residential and Non-residential)
  - Commercial
  - Mobile Home Park
  - Institutional (military base, school, or correctional facility)
  - Homeowner's Association or Co-operative
  - Other If other, please describe below:
3. Typical or predominant landscaping type in residential areas:
  - Low water- use landscaping
  - Turf
  - Not landscaped/not irrigated (dirt or natural desert)
  - No outdoor water use (e.g. mobile homes with no yards)
  - Other If other, describe below:

### B. Sources of Supply

1. Please check all sources of water supply used to meet demand in your system:
  - Groundwater
  - Non-CAP Colorado River Water
  - CAP
  - Other Surface Water If other, list source here)
  - Reclaimed Water
2. If you checked groundwater above, do you measure water levels in your wells?  Yes  No

- For each well, provide the well registration number and the most recent water level measurement and date measured (if available).

ADWR Well Registration Number	Depth -to -Water	Date Measured

*(If the number of wells exceeds the space allotted, please continue on a second copy of this page, and attach it for submittal)*

**C. Interconnections**

*NOTE:If you are located within an Active Management Area (AMA), interconnect agreements may be reviewed by the director of the ADWR pursuant to substantive policy statement GW37 as authorized by A.R.S. §45-492(C)*

- Do you have an interconnection with another water system? Yes No
- If yes, list name of other system(s):
- Describe the interconnections, including conditions under which water transfer can take place.

**D. Water Sold and Purchased**

- Did you sell water to another water system during the past five years? Yes No
- If yes, list quantities and systems:
- Did you purchase water from another water system during the past five years? Yes No
- If yes, list quantities and systems:

**E. System Production/Demand**

- Provide monthly production data by source of supply in the table below (please indicate units, i.e. acre-feet, 1000s of gallons, gallons, etc.). This information will be used to calculate average daily demand and max monthly demand. If your system is not metered, fill in as much as you are able to estimate.

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaimed Water
2007	Jan					
	Feb					
	Mar					
	Apr					
	May					
	Jun					
	Jul					
	Aug					
	Sep					
	Oct					
	Nov					
	Dec					

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaimed Water
2008	Jan					
	Feb					
	Mar					
	Apr					
	May					
	Jun					
	Jul					
	Aug					
	Sep					
	Oct					
	Nov					
	Dec					

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaimed Water
2009	Jan					
	Feb					
	Mar					
	Apr					
	May					
	Jun					
	Jul					
	Aug					
	Sep					
	Oct					
	Nov					
	Dec					

*Continued on next page...*

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaimed Water
2010	Jan					
	Feb					
	Mar					
	Apr					
	May					
	Jun					
	Jul					
	Aug					
	Sep					
	Oct					
	Nov					
	Dec					

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaimed Water
2011	Jan					
	Feb					
	Mar					
	Apr					
	May					
	Jun					
	Jul					
	Aug					
	Sep					
	Oct					
	Nov					
	Dec					

2. Fill in the table below with the dates of the highest demand for each year and the total quantity of water used that day. For quantity, please indicate units (acre-feet, gallons, 1000s of gallons, etc.). If you are not sure of the quantity, please estimate.

Estimated Peak Day Demand	
<b>2007</b>	Date: _____
	Quantity: _____
<b>2008</b>	Date: _____
	Quantity: _____
<b>2009</b>	Date: _____
	Quantity: _____

<b>2010</b>	Date:
	Quantity:
<b>2011</b>	Date:
	Quantity:

3. In the past five years, were there any instances where you were not able to meet peak demand?

Yes  No If yes, please select all that apply from the list below:

- Well pump failed
- Well casing collapsed
- Well went dry
- Storage tank failed
- Surface water shortage
- Distribution line break/failure
- Interconnect down
- Treatment facility problem/failure
- Other (Please describe): \_\_\_\_\_

**F. Analysis of Projected Water Demand**

1. Fill in the table below with your projected system population and projected demand. You may contact ADWR for assistance with projecting population and demand.

<b>Year</b>	<b>Projected population</b>	<b>Projected average daily demand on system (gallons)</b>
<b>2015</b>		
<b>2020</b>		
<b>2030</b>		

2. Do you anticipate problems meeting these future demands?  Yes  No

3. Do you expect any type of change in your area that could increase the demand on your water supply? (Check all that apply.)

- No change expected
- Development
- Population increase
- Industry
- Agriculture
- Other (If other, describe below)

4. Are you planning to make any changes to help you meet demand over the next 20 years:

Yes  No If yes, please select all that apply from the list below.

- Additional and/or improved conservation program
- Increased storage
- Additional wells
- Other (If other, describe below)

Do you need assistance with water resource planning:  Yes  No

If yes, please indicate the areas you need help with (conservation, storage, wells, etc.):

## PART 2 – DROUGHT PLAN UPDATE

### A. Emergency Operations Contact Person

1. Name: \_\_\_\_\_
2. Position: \_\_\_\_\_
3. Phone number: \_\_\_\_\_

### B. According to your Drought Plan, what stage of drought is your system currently in?

*NOTE: Not all water providers have the same number of drought stages or describe drought stages in the same manner. Please answer the following based on the Drought Plan you have submitted to ADWR.*

- No drought – normal conditions
- First stage
- Second stage
- Third stage
- Fourth stage

### C. Are any of your drought management measures mandatory? Yes No

If yes, at what stage?

- No drought – normal conditions
- First stage
- Second stage
- Third stage
- Fourth stage

### D. What is the highest/worst stage you have declared in the past 5 years?

- No drought – normal conditions
- First stage
- Second stage
- Third stage
- Fourth stage

### E. Have your drought stages and associated management measures changed? Yes No

If yes, either describe here, send or attach updated drought plan of action.

### F. Do you have an emergency backup water supply? Yes No

Check all that apply

- Utilize interconnection
- Haul water
- Use backup well
- Provide bottled water
- Drill new well
- Other

**G. Should alternative/backup water supplies become necessary, do you have arrangements developed or in place?** Yes  No

**H. Have you had to use any of the following methods to augment your supply in the last five years?**  
Yes  No

Check all that apply:

- Use interconnection
- Haul water
- Use backup well
- Provide bottled water
- Drill new well
- Other

**I. Have your indicators for declaring drought stages changed? (climate conditions, water supply availability, amount of supply in relation to demand, infrastructure of system, well levels, reservoir levels)** Yes  No **If yes, either describe them here, send or attach update.**

**J. Do you utilize any of the following information to help you make determinations of drought stages?**

	<b>Yes</b>	<b>No</b>	<b>Would like to receive</b>
Precipitation data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Precipitation and weather forecasts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regional drought conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Range and forage conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aquifer levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (Describe) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**K. Has your drought communication strategy or education program changed?** Yes  No  
If yes, either describe here, or send update.

## PART 3 – CONSERVATION PLAN UPDATE

*Large water providers in an Active Management Area regulatory program may skip this section.*

Below are examples of measures that can reduce water use, improve water efficiency, and enhance drought preparedness. As drought conditions worsen, more water use reductions may be needed beyond your normal conservation programs. Drought stages and associated actions should be designed to incrementally scale back water use. The purpose of multiple drought stages is to prevent the final “emergency” stage from occurring.

Please check the water efficiency and drought management measures that you implement. Please rate the effectiveness of each measure that you implement. Use numbers 1 (not at all effective in reducing water use) to 5 (extremely effective in reducing water use). This information will help ADWR track measures being implemented and develop resources to assist water providers.

<b>Management Measures</b>	Currently implementing = ✓	Rate effectiveness (1= not effective 5 = extremely effective)	Will implement in next 5 years = ✓	Would like more information = ✓
Do you meter each of your wells? <input type="checkbox"/> Yes <input type="checkbox"/> No	N/A			
Do you meter each service connection? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Water rate structures that encourage efficient water use. (e.g. higher rates for higher use)				
Use of reclaimed water for landscape watering.				
<b>Measures to Limit Lost and Unaccounted for Water</b>				
Leak detection/repair				
Meter test/repair/replacement				
Control evaporation from storage tanks				
Improve infrastructure and storage facilities				
Eliminate illegal connections				
Other (Describe)				
<b>Measures to Raise Public Awareness</b>				
Free conservation handouts or materials for customers				
Provide conservation tips with water bills or on website				
Request that customers reduce water use by a certain %				
Advise on how to check home for leaks and make repairs				
Other (Describe)				
<b>Measures to Assist Customers or Provide Outreach</b>				
Provide audits and/or retrofits				
Provide low water- use landscape information and/or consultations				
High water- use notification and/or inquiry resolution				
Water waste investigations and assistance				
Other (Describe)				
<b>Measures to Educate and/or Train Customers</b>				
Adult education and/or training workshops and classes				
Speakers bureau				
Youth education program				
Xeriscape demonstration garden				
Other (Describe)				

<b>Management Measures</b>	Currently implementing = ✓	Rate effectiveness (1= not effective 5 = extremely effective)	Will implement in next 5 years = ✓	Would like more information = ✓
<b>Measures to Restrict Water use (Conditions of Service or Ordinance)</b>				
Prohibit water waste				
Eliminate non-essential outdoor water use				
Limit turf or water intensive landscapes in new residences or developments				
Designate landscape watering days or times				
Prohibit high water use activities during peak demand hours				
Require water-conserving fixtures or appliances				
Other (Describe)				
<b>Incentives for Efficient Water Use or Conservation</b>				
Residential rebates or incentives (for fixtures, appliances, turf conversion, xeriscape installation)				
Non-residential rebates, incentives, loans, etc.				
Other (Describe)				
<b>Innovation or Research Programs</b>				
Evaluate a new technology or program				
Implement a new technology or program				
Research a new technology or program				
Other (Describe)				