

ARIZONA WATER BANKING AUTHORITY

STORAGE FACILITY INVENTORY



UPDATED

March 30, 2011

Introduction and Background

Pursuant to A.R.S. §45-2452(A), the Arizona Water Banking Authority (AWBA) was required to develop a Storage Facility Inventory (Inventory) of all existing storage facilities in Arizona prior to March 1, 1997. The purpose of the Inventory was "...to determine whether storage facilities exist in this state to meet the water storage needs of the authority for the following ten years" (A.R.S. §45-2452(D)). Pursuant to A.R.S. §45-2452(F), the AWBA is required to update the Inventory at least once every five years. The 1997 Inventory was previously updated in 2002 and 2005. In addition to meeting the mandatory update requirement, this 2011 Inventory is also synergistic with the Storage and Interstate Release Agreement that requires identification of recharge facilities in the Inventory prior to the AWBA utilizing those facilities for interstate water storage.

The primary purpose of the Inventory is to identify storage capacity available to the AWBA to meet its water storage goals. Inclusion of a facility in the Inventory does not equate to a commitment by the AWBA to utilize any specific facility in the future. The AWBA will continue to determine annually which facilities will be used through the development of the Annual Plan of Operation (Annual Plan). Conversely, not including a facility in the Inventory does not preclude the AWBA from utilizing that facility in a future Annual Plan. It does, however, preclude the facility from being utilized for interstate water storage, until such time as it is included in an updated Inventory.

In addition to actual presence of facilities and permitted capacity, there are two factors that impact the AWBA's ability to store water: availability of water to the AWBA and availability of storage capacity. The AWBA has a lower priority to Central Arizona Project (CAP) water than entities with municipal and industrial (M&I) subcontracts. Pursuant to A.R.S. § 45-2427, the AWBA shall not store Colorado River water that would have otherwise been used in the state. Therefore, a significant volume of recharge capacity may be utilized by other recharge partners storing M&I subcontract water, prior to the AWBA receiving any excess water. Furthermore, most recharge facilities in the Phoenix and Tucson Active Management Areas (AMA) have agreements with other partners or utilize the facility capacity themselves. The result is that recharge facility capacity may be further limited. In the Pinal AMA, the AWBA had historically been the primary storage partner. However, the facility operators have also entered into agreements with other partners in this AMA and much of the capacity that was historically available to the AWBA may not be in the future.

In 2010, the CAWCD Board of Directors (CAWCD Board) had concerns about competing demands and the potential for insufficient storage capacity at the CAP underground storage facilities (USF). This led

the CAWCD Board to direct staff to investigate the need for development of guidelines and priorities for scheduling recharge capacity at CAP USFs. CAP staff prepared a draft list of steps that could be utilized in scheduling capacity, however, no final prioritization process was approved by the CAWCD Board.

Existing Facilities

This Inventory identifies all existing storage facilities in the Phoenix, Pinal, and Tucson Active Management Areas (AMAs), and areas outside the AMAs. Information regarding the facilities is presented in a series of tables and maps in Appendix A to this Inventory. Facilities with pending facility permit or water storage permit applications with the Arizona Department of Water Resources (ADWR) are also identified. The tables list facilities by AMA, type of facility and source of water permitted to be stored. The two types of facilities are USF and groundwater savings facilities (GSF) and the water sources are CAP water, including other surface water, and effluent. Currently, the AWBA does not hold water storage permits for effluent storage. However, if shortages to CAP water supplies are anticipated, the AWBA may seek effluent supplies and storage facilities in order to meet its goals.

The tables in Appendix A include the following information for each storage facility: 1) location 2) facility permit number and effective dates of the permit; 3) facility permit holder; 4) a brief description; 5) the total annual permitted volume; 6) the permit numbers and holders of water storage permits; and 7) the annual storage volume of each water storage permit. In instances where an issued water storage permit volume exceeds the facility permitted volume, the lesser amount is listed in the table. To provide maximum flexibility for water storage, ADWR may issue water storage permits for a facility that exceed the total permitted facility storage volume. However, total annual storage at a facility by all storing entities cannot exceed the annual permitted storage facility volume or any other maximum volumes identified in the permits.

Phoenix Active Management Area

There are currently 56 permitted or pending storage facilities located in the Phoenix AMA. Forty-eight of the facilities are USFs permitted for storage in excess of 720,000 acre-feet per year of CAP water and in excess of 100,000 acre-feet per year of effluent or other surface water supplies. Eight are GSFs permitted for storage in excess of 400,000 acre-feet per year of CAP water and in excess of 30,000 acre-feet per year of effluent.

As of February 2011, the AWBA holds water storage permits in the Phoenix AMA totaling 438,500 acre-feet per year. In addition, the AWBA will be submitting an application to ADWR for a water storage

permit for CAWCD’s Superstition Mountain Recharge Project (SMRP) located in the southeastern portion of the AMA. Phase 1 of the facility, permitted to store 25,000 acre-feet/year, is currently under construction and is anticipated to be operational by June 2011. When fully completed, the storage volume for the facility will be 56,500 acre-feet/year.

Table 1a. identifies the cumulative long-term storage credits (credits) accrued by the AWBA at storage facilities for which the AWBA holds or has held water storage permits through 2009, the permitted volumes associated with the water storage permits held by the AWBA (as of February 2011), and the potential volumes available for the AWBA. The potential capacity available to the AWBA was projected based on historic AWBA use of the facility and staff knowledge regarding patterns of use by other water storage partners. The total cumulative balance of credits held by the AWBA in the Phoenix AMA through 2009 is 1,514,313 acre-feet and includes 46,287 acre-feet of credits for interstate banking.

Table 1a: Phoenix AMA - AWBA Credits Accrued through 2009 and Potential Storage Capacity Projected as Available for Future Use

Facilities	LTS Credits Accrued Through 2009 (AF)	AWBA Water Storage Permit Capacity (AF)	Projected Capacity Available to AWBA (AF)	AWBA Water Deliveries					
				2007 (AF)	2008 (AF)	2009 (AF)	2010 (AF)	Planned 2011 (AF)	
USF	GRUSP	399,967	expired	n/a	-	-	-	-	-
	AFRP	72,864	100,000	10,000	4,177	2,313	0	2,596	0
	HMRP	62,963	35,000	10,000	7,693	1,264	0	5,002	0
	TDRP	279,230	87,500	100,000	117,004	38,465	23,781	84,545	59,950
	SMRP	n/a	n/a	15,000	-	-	-	-	-
	WMC	0	25,000	5,000	-	-	-	-	-
GSF	CHCID	4,518	expired	0	-	-	-	-	-
	MWD	47,172	expired	n/a	-	-	-	-	-
	NMIDD	328,351	54,000	0	-	-	-	-	-
	QCID	92,664	22,000	10,000	7,522	6,397	3,622	309	7,055
	SRP	77,327	100,000	n/a	-	-	-	-	-
	RWCD	58,575	expired	n/a	-	-	-	-	-
	TID	2,368	15,000	0	-	-	-	-	-
	GRIIDD	88,313	expired	n/a	13,822	31,326	35,288	-	-
Totals	1,514,313	438,500	150,000	150,218	79,765	62,691	92,460	67,005	

n/a = The AWBA does not have a Water Storage Permit or current Water Storage Agreement.

Table 1b. identifies the volume of water the AWBA could feasibly store through 2020 based on the projected storage capacity available to the AWBA at each facility and projected available water supply assumptions taken from the AWBA’s Ten-Year Plan for 2011-2020, which includes participation in an

Excess CAP water Pool shared between the AWBA, CAGR for replenishment reserve, and the Bureau of Reclamation (Reclamation) for Indian firming purposes.

Table 1b: Phoenix AMA - Potential AWBA Water Deliveries based on Available Water Supplies and Funding Sources through 2020 (without Federal water use estimates)

FACILITY	Projected AWBA Water Deliveries								
	2012 (AF)	2013 (AF)	2014 (AF)	2015 (AF)	2016 (AF)	2017 (AF)	2018 (AF)	2019 (AF)	2020 (AF)
AFRP	1,590	2,040	2,320	2,340	2,150	2,580	2,550	2,550	2,550
HMRP	2,650	3,400	3,870	3,900	3,590	4,290	4,250	4,250	4,250
TDRP	45,070	57,740	65,750	66,330	61,060	72,970	72,170	72,670	72,670
SMRP	4,240	5,430	6,190	6,240	5,750	6,870	6,790	6,790	6,790
QCID	2,650	3,400	3,870	3,900	3,590	4,290	4,250	3,750	3,750
TOTAL	56,200	72,010	82,000	82,710	76,140	91,000	90,010	90,010	90,010

Table 1c. identifies the volume of water the AWBA could feasibly store through 2020 based on the projected storage capacity available to the AWBA at each facility and projected available water supply assumptions taken from the AWBA’s Ten-Year Plan for 2011-2020, with additional CAP water use by Reclamation for Indian firming purposes (15,000 acre-feet). This reduction in available water supplies would primarily impact storage in the Phoenix AMA since deliveries to the Pinal and Tucson AMAs will already be limited by the amount of funds collected in those areas.

Table 1c: Phoenix AMA - Potential AWBA Water Deliveries based on Available Water Supplies and Funding Sources through 2020 (with Federal water use estimates)

FACILITY	Projected AWBA Water Deliveries								
	2012 (AF)	2013 (AF)	2014 (AF)	2015 (AF)	2016 (AF)	2017 (AF)	2018 (AF)	2019 (AF)	2020 (AF)
AFRP	1,170	1,610	1,900	1,920	1,730	2,150	2,120	2,120	2,120
HMRP	1,940	2,690	3,160	3,190	2,880	3,580	3,540	3,540	3,540
TDRP	33,040	45,710	53,730	54,310	49,030	60,940	60,140	60,640	60,640
SMRP	3,110	4,300	5,060	5,110	4,610	5,740	5,660	5,660	5,660
QCID	1,940	2,690	3,160	3,190	2,880	3,580	3,540	3,040	3,040
TOTAL	41,200	57,000	67,010	67,720	61,130	75,990	75,000	75,000	75,000

Pinal Active Management Area

There are currently 11 permitted or pending storage facilities located in the Pinal AMA. Eight of the facilities are USFs permitted for storage in excess of 9,000 acre-feet of effluent. Three are GSFs permitted for storage of 285,000 acre-feet per year of CAP water.

The AWBA holds, or has pending, water storage permits in the Pinal AMA totaling 285,000 acre-feet per year. This volume is equal to the total volume of all permitted facilities in the Pinal AMA capable of receiving CAP water each year.

Table 2a. identifies the cumulative credits accrued by the AWBA at storage facilities for which the AWBA currently holds water storage permits, the permitted volumes associated with the water storage permits held by the AWBA (as of February 2011), and the potential volumes available for the AWBA. The potential capacity available to the AWBA was projected based on historic AWBA use of the facility and staff knowledge regarding patterns of use by other water storage partners. The cumulative balance of credits held by the AWBA in the Pinal AMA through 2009 is 1,267,988 acre-feet and includes 439,851 acre-feet of credits for interstate banking.

Table 2a: Pinal AMA - AWBA Credits Accrued through 2009 and Potential Storage Capacity Projected as Available for Future Use

Facilities		LTS Credits Accrued Through 2009 (AF)	AWBA Water Storage Permit Capacity (AF)	Projected Capacity Available to AWBA (AF)	AWBA Water Deliveries				
					2007 (AF)	2008 (AF)	2009 (AF)	2010 (AF)	Planned 2011 (AF)
GSF	CAIDD	294,503	110,000	80,000	57,360	37,852	25,663	13,196	7,500
	HIDD	426,610	55,000	20,000	42,500	18,525	-	7,000	3,000
	MSIDD	529,797	120,000	90,000	83,090	41,864	40,931	15,634	7,500
	GRIIDD	17,077	expired	n/a	6,807	5,000	-	-	-
Totals		1,267,988	285,000	190,000	189,757	103,241	66,594	35,830	18,000

Table 2b. identifies the volume of water the AWBA could feasibly store through 2020 based on the projected storage capacity available to the AWBA at each facility and projected available water supply assumptions taken from the AWBA's Ten-Year Plan for 2011-2020.

Table 2b: Pinal AMA - Potential AWBA Water Deliveries based on Available Water Supplies and Funding Sources through 2020

FACILITY	Projected AWBA Water Deliveries								
	2012 (AF)	2013 (AF)	2014 (AF)	2015 (AF)	2016 (AF)	2017 (AF)	2018 (AF)	2019 (AF)	2020 (AF)
CAIDD	9,500	8,720	7,050	7,190	7,550	4,070	4,100	4,130	4,160
HIDD	4,750	4,360	3,520	3,590	3,780	2,040	2,050	2,060	2,080
MSIDD	12,670	11,630	9,390	9,580	10,070	5,430	5,470	5,500	5,540
TOTAL	26,920	24,710	19,960	20,360	21,400	11,540	11,620	11,690	11,780

Tucson Active Management Area

There are currently 18 permitted storage facilities located in the Tucson AMA. Twelve are USFs permitted for storage of approximately 250,000 acre-feet per year of CAP water and 69,000 acre-feet per year of effluent or other surface water supplies. Six are GSFs permitted for storage of almost 78,000 acre-feet per year of CAP water.

As of February 2011, the AWBA holds water storage permits in the Tucson AMA totaling 276,547 acre-feet per year. In addition, the AWBA will be submitting an application to ADWR for a water storage permit for the Farmers Investment Company (FICO) GSF, which is permitted to store 22,000 acre-feet/year. Construction of Phase I of the facility is anticipated to begin in the first quarter of 2011. Phase I is permitted to store 11,000 acre-feet/year and is anticipated to be operational by 2012.

Table 3a. identifies the cumulative credits accrued by the AWBA at storage facilities for which the AWBA holds water storage permits through 2009, the permitted volumes associated with the water storage permits held by the AWBA (as of February 2011), and the potential volumes available for the AWBA. The potential capacity available to the AWBA was projected based on historic AWBA use of the facility and staff knowledge regarding patterns of use by other water storage partners. The cumulative balance of credits held by the AWBA in the Tucson AMA through 2009 totals 537,401 acre-feet and includes 96,634 acre-feet of credits for interstate banking.

Table 3a: Tucson AMA - AWBA Credits Accrued through 2009 and Potential Storage Capacity Projected as Available for Future Use

Facilities		LTS Credits Accrued Through 2009 (AF)	AWBA Water Storage Permit Capacity (AF)	Projected Capacity Available to AWBA (AF)	AWBA Water Deliveries				
					2007 (AF)	2008 (AF)	2009 (AF)	2010 (AF)	Planned 2011 (AF)
USF	AVRP	54,629	11,000	2,000	6,823	5,443	3,571	4,323	1,636
	CAVSARP ^a	90,007	80,000	10,000	14,500	7,675	11,599	5,000	0
	PMRRP	126,451	30,000	5,000	6	0	4,085	0	0
	LSCRCP	249,086	50,000	30,000	23,586	20,866	10,084	29,099	11,300
	SAVSARP	4,224	60,000	20,000	-	-	4,525	41,000	36,000
CSF	CMID	0	20,000	5,000	-	-	-	4,000	-
	Kai Farms-Red Rock	11,554	11,231	3,000	-	-	1,893	-	2,500
	BKW Farms	1,451	14,316	1,500	-	-	-	-	-
	FICO	n/a	n/a	10,000	-	-	-	-	-
Totals		537,401	276,547	86,500	44,915	33,984	35,757	83,422	51,436

n/a = Facility not completed or the AWBA did not hold a Water Storage Permit or current Water Storage Agreement for the Facility

^(a) CAVSARP is permitted for 100,000 AF/yr for 20 years, the total in storage cannot exceed 1.2MAF. Likewise the Lower Santa Cruz Recharge Project is permitted for 50,000 AF/yr, but total storage cannot exceed 500,000 AF.

Table 3b. identifies the volume of water the AWBA could feasibly store through 2020 based on the projected storage capacity available to the AWBA at each facility and projected available water supply assumptions taken from the AWBA's Ten-Year Plan for 2011-2020.

Table 3b: Tucson AMA - Potential AWBA Water Deliveries based on Available Water Supplies and Funding Sources through 2020

FACILITY	Projected AWBA Water Deliveries								
	2012 (AF)	2013 (AF)	2014 (AF)	2015 (AF)	2016 (AF)	2017 (AF)	2018 (AF)	2019 (AF)	2020 (AF)
AVRP	1,480	840	640	660	700	140	90	80	80
CAVSARP	4,920	2,790	2,140	2,190	2,330	480	290	270	270
PMRRP	980	560	430	440	470	100	60	50	50
LSCRCP	29,500	16,750	12,830	13,170	13,980	2,870	1,760	1,630	1,600
SAVSARP	19,670	11,160	8,550	8,780	9,320	1,910	1,170	1,090	1,070
CMID	1,480	840	640	660	700	140	90	80	80
Kai Farms-Red Rock	1,480	840	640	660	700	140	90	80	80
FICO	0	2,790	2,140	2,190	2,330	480	290	270	270
TOTAL	59,510	36,570	28,010	28,750	30,530	6,260	3,840	3,550	3,500

Outside AMAs

The AWBA currently does not utilize or anticipate utilizing any facilities outside the AMA. There are currently two USFs and one GSF outside of the AMAs permitted for storage of CAP water. There is also one facility outside the AMAs that is permitted for storage of effluent. A description of these facilities is also found in Appendix A.

Conclusion

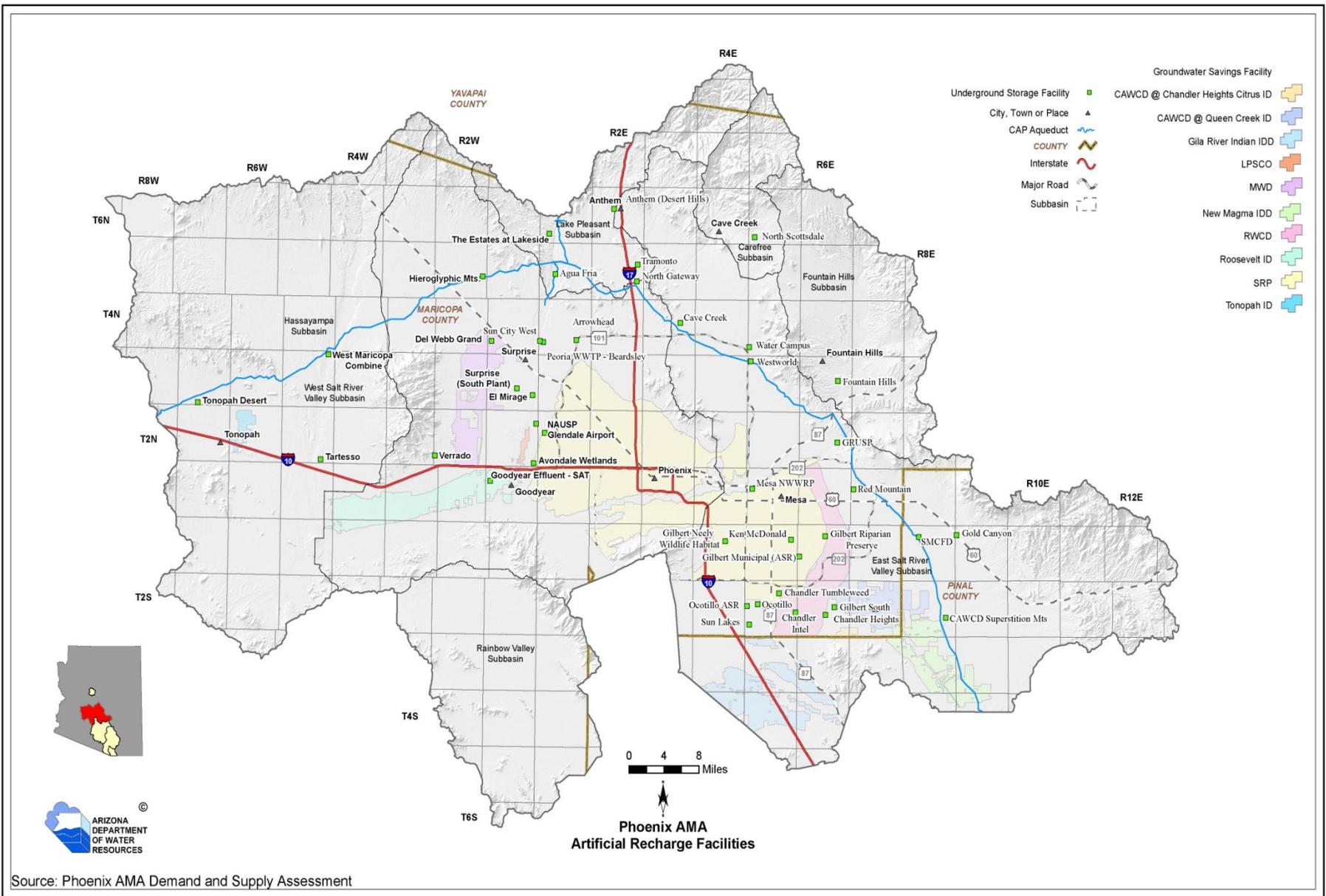
The determination regarding whether storage facilities exist in this state to meet the AWBA's water storage needs for the next 10 years is made based on whether there is storage facility capacity available to the AWBA in a volume greater than the total proposed volume of water available for delivery by the AWBA. Table 4 summarizes this information for the 10 year period for the Phoenix, Pinal and Tucson AMAs. In all three AMAs, the capacity available to the AWBA exceeds the volume of projected water deliveries through 2020¹. In the Phoenix AMA, the largest volume of projected water deliveries utilizes only 60 percent of the capacity projected as available to the AWBA. In the Pinal AMA, the largest projected water deliveries utilizes less than 15 percent of the capacity projected as available to the AWBA. In the Tucson AMA, the largest volume of projected water deliveries utilizes almost 70 percent of the capacity projected as available to the AWBA. Therefore, the AWBA concludes that it is likely that sufficient recharge facility capacity exists in the state for the AWBA to achieve its goals.

Table 4: Recharge Facility Capacity and Projected Water Deliveries Through 2020

AMA	Capacity Available to AWBA	Projected Water Deliveries									
		2011 (AF)	2012 (AF)	2013 (AF)	2014 (AF)	2015 (AF)	2016 (AF)	2017 (AF)	2018 (AF)	2019 (AF)	2020 (AF)
Phoenix	150,000	67,005	56,200	72,010	82,000	82,710	76,140	91,000	90,010	90,010	90,010
Pinal	190,000	18,000	26,920	24,710	19,960	20,360	21,400	11,540	11,620	11,690	11,780
Tucson	86,500	51,436	59,510	36,570	28,010	28,750	30,530	6,260	3,840	3,550	3,500

¹ The 2011-2020 Ten-Year Plan indicates that while the M&I firming goals could be met in the Phoenix and Pinal AMAs, the firming goal would not be met in the Tucson AMA. The AWBA would need to deliver for storage approximately 48,000 acre-feet of water per year through 2020 to meet the Tucson M&I firming goal of 864,000 acre-feet. Given the estimated amount of storage capacity available to the AWBA in the Tucson AMA, the AWBA could potentially meet the M&I firming goal if funding and water availability were not limiting factors.

APPENDIX A



PHOENIX AMA Underground Storage Facilities

MAP LOC.	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
FACILITIES THAT ARE PERMITTED TO STORE CAP WATER						
T2S R8E	71-207702.0001 (01/28/10 to 01/15/28)	CAWCD	Superstition Mtn. Recharge Project: Recharge of CAP water via basins.	Phase I: 25,000 Phase II: 56,500	73-207702.0001: CAWCD	Phase I: 25,000 Phase II: 56,500
T5N R3E	71-216386.0000 (11/30/09 to 11/3/29)	City of Phoenix	City of Phoenix Well 6A-W299 Facility: Recharge of CAP via 1 injection well.	1,882	73-216386.0000: Phoenix	1,882
T2N R6E	71-516371.0001 (Pending)	Salt River Project	Granite Reef Underground Storage Project (GRUSP): Recharge of CAP water, Salt and Verde River water, Plan 6 water and City of Mesa effluent through in-channel basins within the Salt River just below the CAP interconnect at the Granite Reef Dam in the east Salt River Valley (ESRV) subbasin.	200,000	73-516371.1000: SRP 73-516371.3000: Mesa 73-516371.4000: Chandler 73-516371.0501: Gilbert 73-516371.6000: Phoenix 73-516371.0701: Tempe 73-516371.8000: CAWCD 73-516371.9000: Scottsdale 73-516371.1100: Peoria 73-516371.1200: AWBA	100,000 ^{1,2} 44,000 20,000 10,235 80,000 7,000 200,000 10,000 ³ 20,000 ⁴ 200,000
T3N R5W	71-550601.0001 (11/30/09 to 06/30/23)	Hassayampa Ventures, LLC	Hassayampa Recharge Managed Facility: Annual recharge up to 25,000 acre-feet of CAP via managed streambed.	25,000	73-550601.0100: WU of Greater Tonopah	25,000
T4N R4E	71-560648.0003 (12/07/07 to 12/31/25)	City of Scottsdale	Water Campus: Storage of micro-filtered effluent and CAP water via vadose zone recharge and ASR wells.	Phase I: 21,514 Phase II: 28,314	73-560649.0000: Scottsdale	Phase I: 21,514 Phase II: 28,314
T1S R6E	71-564416.0002 (06/10/09 to 11/30/18)	Town of Gilbert	Riparian Preserve at Water Ranch: Recharge basin/wildlife system for storage of CAP water, Salt/Verde water, and effluent. Located in the East Salt River Valley (ESRV) subbasin.	4,369	73-564416.0000: Gilbert	4,369
T2N R1W	71-565257.0002 (09/23/09 to 12/31/23)	City of Avondale	Avondale Wetlands: Wetland treatment and recharge project, located adjacent to the Agua Fria River just north of McDowell Road, for storage of CAP water, Salt/Verde water and effluent.	15,000	73-565257.0002: Avondale	15,000
T6N R2E	71-566962.0008 (07/02/10 to 07/02/15)	Arizona American Water Co.	Anthem Recharge Facility: Recharge of CAP and effluent via recharge trenches. Located in the far northern portion of the AMA at the Anthem development.	500	73-566962.0205: AAWC	10,000

¹ Plan 6 Water WSP 73-516371.2 SRP = 200,000 acre-feet; WSP 73-516371.3 Mesa = 67,958 acre-feet; WSP 73-516371.4 Chandler = 40,350 acre-feet

² Salt & Verde River Water for Annual Storage & Recovery WSP 73-548928 Chandler = 84,570 acre-feet; WSP 73-548929 SRP = 200,000 acre-feet; 73-550663 Mesa = 85,869 acre-feet; and WSP 73-547504 for 200,00 acre-feet of Displaced Verde River water.

³ Volume includes permit for use of Plan 6 Water

⁴ Volume includes permit for use of Salt/Verde River Water for Annual Storage and Recovery.

* AWBA Storage

PHOENIX AMA Underground Storage Facilities

MAP LOC.	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
T4N R1E	71-569775.0005 (12/11/08 to 05/31/19)	CAWCD	<u>Agua Fria Recharge Project (Managed):</u> STATE DEMONSTRATION PROJECT. In-channel recharge project, located in the Agua Fria River in the northern portion of the WSRV, that, in combination with 71-569776, cannot store more than 100,000 acre-feet per annum of CAP for 20 years. Located in the southern portion of the Lake Pleasant subbasin in the northern portion of the AMA.	100,000	73-569775.0100: CAWCD 73-569775.0200: AWBA 73-569775.0300: Duke Energy 73-569775.0400: Peoria 73-569775.0500: Goodyear 73-569775.0600: Gilbert 73-569775.0700: Avondale 73-569775.0800: Chandler 73-569775.0900: Del Webb Corp 73-569775.1100: Surprise 73-569775.1200: Aqua Capital 73-569775.1300: El Mirage 73-569775.1400: Tohono O'odham Nation 73-569775.1500: Vidler Water Co 73-569775.1600: Resolution Copper (pending)	100,000 100,000 1,000 9,000 13,000 100,000 20,000 30,000 10,000 100,000 100,000 100,000 50,000
T4N R1E	71-569776.0005 (12/11/08 to 05/31/19)	CAWCD	<u>Agua Fria Recharge Project (Constructed):</u> STATE DEMONSTRATION PROJECT. Recharge project that, in combination with 71-569775, cannot store more than 100,000 acre-feet per annum of CAP for 20 years.	(see above)	73-569776.0100: CAWCD 73-569776.0200: AWBA 73-569776.0300: Duke Energy 73-569776.0400: Peoria 73-569776.0500: Goodyear 73-569776.0600: Gilbert 73-569776.0700: Avondale 73-569776.0800: Chandler 73-569776.0900: Del Webb Corp 73-569776.1100: Surprise 73-569776.1200: Aqua Capital 73-569776.1300: El Mirage 73-569776.1400: Tohono O'odham Nation 73-569776.1500: Vidler Water Co 73-569776.1600: Resolution Copper (pending)	(see above)
T3N R5E	71-574911.0001 (08/15/01 to 08/17/20)	City of Scottsdale	<u>West World Golf Course:</u> Annual recharge of CAP via vadose zone recharge wells. Located in North Scottsdale.	1,000	73-57491.0000: Scottsdale	1,000
T3N R5W	71-578112.0002 (11/30/09 to 05/31/21)	West Maricopa Combine Inc. (#2)	<u>Hassayampa Recharge Facility:</u> Annual recharge of CAP within the Hassayampa River channel. A managed facility.	25,000	73-578112.0100: W.U. of Greater Buckeye 73-578112.0200: W.U. of Greater Tonopah 73-578112.0300: AWBA 73-578112.0400: Global/Santa Cruz Water 73-578112.0500: Hassayampa Ventures	43 64 25,000 25,000
T6N R5E	71-583022.0002 (06/13/05 to 01/31/22)	City of Scottsdale	<u>North Scottsdale Aquifer Storage & Recovery Project:</u> – Annual recharge of CAP via vadose zone wells. Located in the Carefree subbasin.	3,642	73-583022.0200: CAWCD 73-583022.0300: Scottsdale	3,642 3,642
T5N R2W	71-584466.0002 (03/28/03 to 12/31/21)	CAWCD	<u>CAWCD/Hieroglyphic Mountains Recharge Project:</u> STATE DEMONSTRATION PROJECT. Annual recharge of CAP via basins. Located in the West Salt River Valley (WSRV) subbasin.	35,000	73-584466.0100: CAWCD 73-584466.0200: AWBA 73-584466.0300: Peoria 73-584466.0400: Goodyear 73-584466.0500: DMB Whitetank 73-584466.0600: Avondale 73-584466.0700: Chandler 73-584466.0800: Del Webb Corp 73-584466.0900: Surprise 73-584466.1100: Aqua Capital 73-584466.1200: El Mirage 73-584466.1300: Tohono O'odham Nation 73-584466.1400: Vidler Water Co 73-584466.1500: Resolution Copper (pending)	35,000 35,000 10,000 13,000 40 20,000 30,000 10,000 35,000 35,000 35,000 35,000

PHOENIX AMA Underground Storage Facilities

MAP LOC.	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
T2N R1E	71-588558.0004 (03/06/08 to 12/22/25)	Salt River Project	<u>New River Agua Fria Underground Storage Project</u> : Phased facility Annual recharge up to 30,000 acre-feet per annum for the first 2 years, 50,000 acre-feet per annum for years 3 through 4 75,000 acre-feet per annum for years 5 through 20 of Verde and Salt River water, CAP , and effluent via basins.	30,000 1 st 2 yrs 50,000 yrs 3-5 75,000 yrs 6-20	73-588558.0002: SRP 73-588558.0201: Chandler 73-588558.0301: Glendale 73-588558.0402: Avondale 73-588558.0500: Peoria	see facility
T5N R2E	71-591936.0000 (02/05/04 to 02/28/12)	City of Phoenix	<u>Tramanto Recharge Facility</u> : Annual recharge of CAP water via recharge wells.	1,935	73-591936.0000: Phoenix	1,935
T3N R7W	71-593305.0002 (07/27/09 to 09/01/25)	CAWCD	<u>Tonopah Desert Recharge Project</u> : Annual recharge of CAP water via basins. Located near the western border of the Phoenix AMA.	150,000 Total storage not to exceed 2,000,000	73-593305.0001: CAWCD 73-593305.0201: Gilbert 73-593305.0300: AWBA 73-593305.0400: Chandler 73-593305.0500: Del Webb Corp. 73-593305.0600: AZ American 73-593305.0701: Buckeye 73-593305.0800: WUGT 73-593305.0900: AZ American-AF 73-593305.1100: CSW Sun Valley S. 73-593305.1200: Surprise 73-593305.1300: Aqua Capital 73-593305.1400: El Mirage 73-593305.1500: Valencia Water Co 73-593305.1600: Vidler Water Co 73-593305.1700: Hopi Indian Tribe 73-593305.1800: Resolution Copper	see facility 150,000 see facility 30,000 10,000 30,000 10,000(pending) 50,000 10,000 250 150,000 150,000 150,000 150,000 50,000 10,000 20,000(pending)
T5N R2E	71-595208.0000 (12/12/05 to 12/12/25)	City of Phoenix	<u>Phoenix North Gateway</u> : Annual recharge of CAP water via recharge wells.	1,742	73-595208.0000: Phoenix	1,742
PENDING APPLICATIONS FOR FACILITIES THAT WILL BE PERMITTED TO STORE CAP WATER						
T1N R5W	71-216387.0000	Global Water Mgmt LLC	<u>Lower Hassayampa Managed Recharge Facility</u> :	80,000		
	71-591939.0000	Carefree Water Co.	<u>Recharge Facility at Desert Forest Golf Club</u> : Recharge of CAP water via wells.		Carefree Water Co.	
FACILITIES THAT ARE PERMITTED TO STORE EFFLUENT						
T2N R5W	71-205381.0002 (03/11/10 to 12/31/29)	Town of Buckeye	<u>Tartesso Water Reclamation Facility</u> : Annual recharge of effluent via infiltration basins. Located in the Tartesso development. (Hassayampa subbasin).	See Comments Total storage not to exceed 20,163 at any time	73-205381.0000: Town of Buckeye	See Comments Total storage not to exceed 20,163 at any time
T6N R1E	71-205388.0000 (08/25/06 to 08/25/26)	Lake Pleasant Sewer Co.	<u>The Estates at Lakeside</u> : Annual recharge of effluent via 2 injection wells. Located in the Lake Pleasant subbasin.	67.2 Total storage not to exceed 20,163 at any time	73-205388.0000: Lake Pleasant Sewer Co.	67.2 Total storage not to exceed 20,163 at any time
T2N R2W	71-207708.0000 (03/19/07 to 03/19/27)	Arizona American Water Co.-(Agua Fria)	<u>Verrado</u> : Annual recharge of effluent via injection wells. Located on the eastern side of the White Tank Mtns. (WSRV subbasin).	500	73-207708.0000: AAWC	500
T3N R1W	71-211282.0000 (06/16/08 to 06/16/28)	City of El Mirage	<u>El Mirage Constructed Facility</u> :	Phase I : 2,240 Phase II : 2,800 Phase III : 3,360 Phase IV : 4,032 Total storage not to exceed 62,608 at any time	73-211282.0000: El Mirage	Phase I : 2,240 Phase II : 2,800 Phase III : 3,360 Phase IV : 4,032 Total storage not to exceed 62,608 at any time
T4S R8E	71-211287.0001 (03/29/08 to 12/11/28)	Johnson Utilities, LLC	<u>Section 11 Recharge Facility</u>	11 phases beginning at 1,277 per year ending at 5,040 per year	73-21287.0001: Johnson Utilities	5,040

PHOENIX AMA Underground Storage Facilities

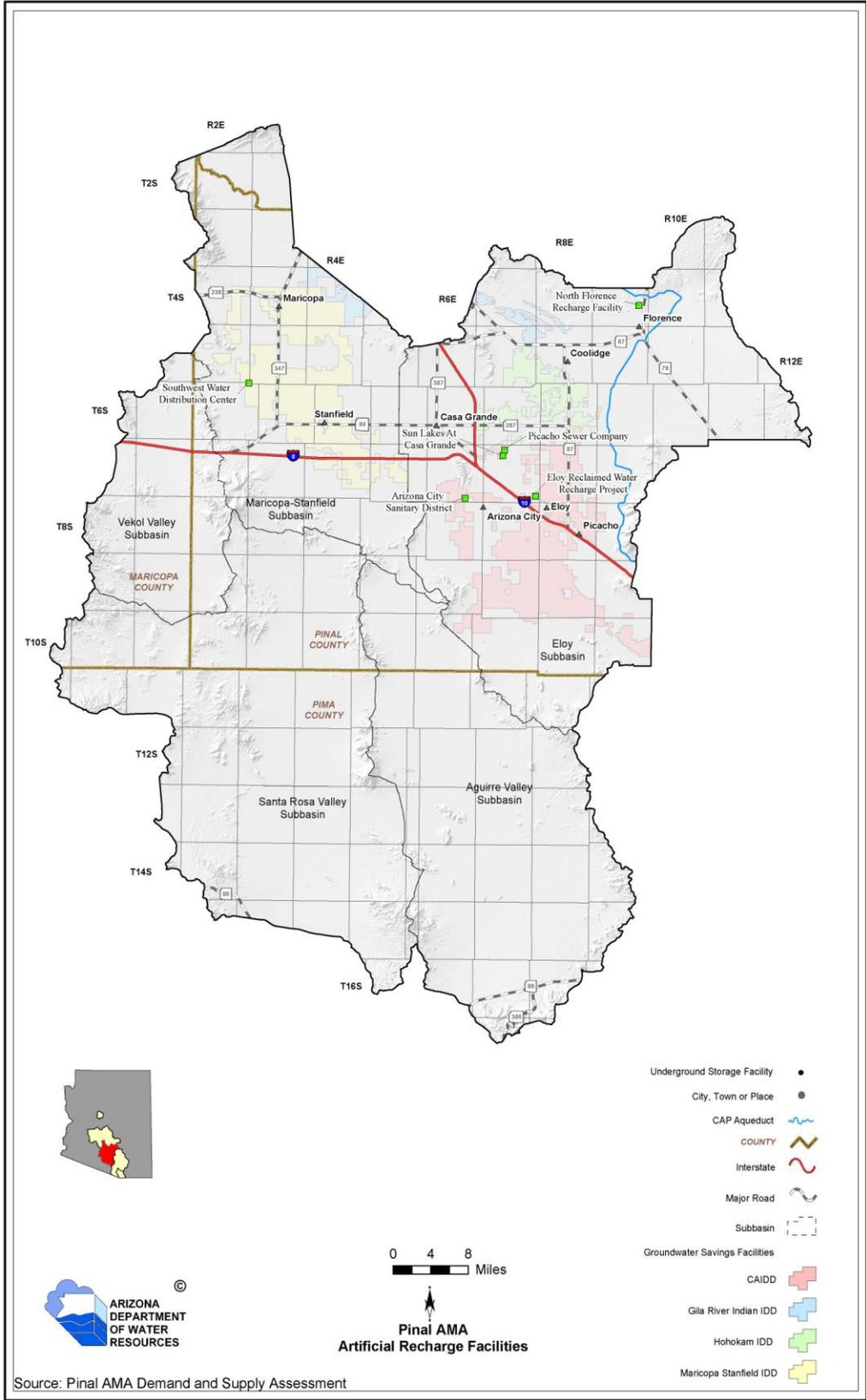
MAP LOC.	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
T1S R5E	71-520379.0002 (06/08/09 to 10/18/13)	Town of Gilbert	<u>Neely Recharge Facility</u> : Recharge of effluent from the Gilbert Wastewater Treatment Plant through basins and an injection well. Located in southern portion of the ESRV subbasin.	896.12	73-520379.0000: Town of Gilbert	896.12
T4N R1E	71-534362.0003 (09/16/04 to 04/14/20)	Arizona – American Water Co.	<u>Sun City West Wastewater Treatment Plant</u> : Recharge of effluent into infiltration basins located adjacent to the Agua Fria River in the WSRV subbasin.	5,600	73-534362.0101: AAWC 73-534362.0202: AAWC 73-534362.0301: AAWC	3,041.50 5,600 3,041.50
T2S R5E	71-541455.0001 (11/21/00 to 03/02/14)	City of Chandler	<u>Chandler Intel Facility</u> : Recharge of effluent from the Intel plant through injection wells. Located in southern portion of the ESRV subbasin.	3,100	73-541455.0000: City of Chandler	3,100
T2S R5E	71-546845.0002 (05/22/06 to 05/02/16)	Ocotillo Mangmt. Group	<u>Ocotillo Springs</u> : Recharge of effluent through overflow vadose zone wells. Located in southern portion of the ESRV subbasin.	500	73-546844.0000: Ocotillo Management Group	500
T4N R1E	71-552497.0004 (03/02/10 to 12/31/24)	City of Peoria	<u>Beardsley Road Water Reclamation Facility</u> : Recharge of effluent annually through infiltration basins. Located at Peoria's WWTP at Beardsley Rd. and 111 th Ave. (WSRV subbasin).	Phase I: 2,240 Phase II: 4,480 Phase III: 6,720 Phase IV: 13,441 Phase V: 17,920 Total storage not to exceed 210,580 at any time	73-552498.0001: Peoria	Same as facility
T2S R5E	71-560347.0006 (03/15/10 to 05/06/23)	City of Chandler	<u>Tumbleweed Regional Park</u> : Annual recharge of effluent via 30 vadose zone recharge wells and ASR wells. Located in southern portion of the ESRV subbasin.	11,200 Total storage not to exceed 100,000	73-560347.0001: Chandler	11,200 not to exceed 100,000
T2S R5E	71-560427.0002 (04/03/08 to 12/10/27)	Pima Utility Co.	<u>Pima Utility Company USE</u> : Annual recharge of effluent through 4 Annual Storage & Recovery wells. Located in the southern portion of the ESRV subbasin.	732 Total storage not to exceed 14,640 at any time	73-560427.0001: Pima Utility Group	732
T3N R1W	71-562521.0003 (07/12/10 to 11/30/21)	City of Surprise	<u>City of Surprise SPA-1 Water Reclamation Facility</u> : Annual recharge of effluent through infiltration basins. (WSRV subbasin).	Phase I: 4,500 Phase II: 6,500 Phase III: 8,066	73-562521.0002: Surprise	15,000
T1S R4E	71-563943.0002 (Pending)	City of Tempe	<u>Ken MacDonald Golf Course Recharge Facility</u> : Annual recharge of effluent via 6 vadose zone recharge wells. (ESRV subbasin).	3,400	73-563943.0000: Tempe	3,400
T2S R5E	71-583023.0002 (01/28/10 to 10/04/24)	City of Chandler	<u>Ocotillo Recharge and Recovery Facility</u> : Annual recharge of effluent from the Ocotillo WWTP via wells. (ESRV subbasin).	11,200	73-583023.0001: Chandler/Ocotillo	11,200
T1S R8E	71-584469.0000 (03/07/05 to 03/07/25)	Superstition Mtns. Community Fac. No. 1	<u>Superstition Mtns. Community Facilities District #1 USF</u> : Annual recharge of effluent via basins and vadose zone wells. (WSRV subbasin).	2,352	73-584469.0000: SMCDF. No. 1	2,352
T2N R1W	71-586730.0000 (03/12/03 to 03/31/23)	City of Glendale	<u>Glendale Aquifer Recharge Facility</u> : Annual recharge of effluent over a two-year period via basins/trenches/wells (WSRV subbasin).	7,841 Total storage not to exceed 124,226 at any time	73-586730.0000: Glendale	7,841 Total storage not to exceed 124,226 at any time

PHOENIX AMA Underground Storage Facilities

MAP LOC.	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
T2S R6E	71-588551.0001 (10/29/09 to 11/30/23)	City of Chandler	Chandler Heights Recharge Project: Annual recharge of effluent via infiltration basins. (WSRV subbasin).	2,240	73-588551.0000: Chandler	2,240
T1S R9E	71-591929.0000 (04/14/03 to 04/30/23)	Gold Canyon Sewer Co.	Gold Canyon Wastewater Treatment Plant: Annual recharge of effluent via infiltration basins. (WSRV subbasin).	1,120	73-591929.0000: Gold Canyon Sewer Co.	1,120
T4N R1E	71-591934.0001 (09/08/10 to 01/31/24)	City of Glendale	Arrowhead Ranch Recharge Facility: Annual recharge of effluent via vadose zone recharge and ASR wells. (WSRV subbasin).	2,300	73-591934.0000: Glendale	2,300
T1S R6E	71-591935.0000 (11/30/04 to 11/30/24)	Town of Gilbert	Vadose Zone Wells Municipal Center: Annual recharge of effluent via vadose zone wells. (WSRV subbasin)	2,240	73-591935.0000: Gilbert	2,240
T3N R6E	71-591940.0000 (04/24/08 to 08/10/24)	Fountain Hills Sanitary District	Fountain Hills Sanitary District: Annual recharge of effluent via ASR wells. Located in the Fountain Hill subbasin in the northeastern portion of the AMA.	2,240.6	73-591940.0000:FHSD	2,240.6
T2S R6E	71-595198.0001 (09/09/08 to 11/30/24)	Town of Gilbert	South Recharge Facility	Phase I: 4,032 Phase II: 8,400 Phase III: 10,080	73-595198.0001:Gilbert	Phase I: 4,032 Phase II: 8,400 Phase III: 10,080
T4N R3E	71-595199.0003 (10/06/08 to 12/17/24)	City of Phoenix	Cave Creek Wastewater Reclamation Plant Recharge Facility: Annual recharge of effluent via vadose wells. (ESRV subbasin).	8,961	73-595199.0000: Phoenix	8,961
PENDING APPLICATIONS FOR FACILITIES THAT WILL BE PERMITTED TO STORE EFFLUENT						
	71-207709.0000	Johnson Utilities LLC	Santan Recharge Facility: Annual recharge of effluent via vadose zone recharge wells. (ESRV subbasin)		73-207709.0000: Johnson Utilities	
T12S R11E	71-218760.0000	City of Surprise	Surprise SPA-3		73-218760	
	71-218761.0000	City of Surprise	Surprise SPA-2		73-218761.0000	
	71-220046.0000	City of Peoria	Vistancia Recharge Facility		73-220046.0000	

PHOENIX AMA Groundwater Savings Facilities

FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
FACILITIES THAT ARE PERMITTED TO STORE CAP WATER					
72-534439.0002 (11/01/06 to 11/16/16)	Tonopah Irrigation District	Tonopah Irrigation District: Indirect recharge of CAP water. Located in the Hassayampa subbasin in the far western portion of the AMA.	15,000	73-534439.0001: CAWCD 73-534439.0300: Goodyear 73-534439.0201: AWBA	15,000 15,000 15,000
72-534550.0004 (Pending)	Queen Creek Irrigation District	Queen Creek ID: Indirect recharge of CAP water. (ESRV subbasin)	22,000	73-534550.0101: AWBA 73-534550.0301: Gilbert 73-534550.0400: CAWCD	22,000 22,000 22,000
72-534888.0003 (08/20/07 to 08/20/17)	New Magma Irrigation & Drainage District	New Magma Irrigation District: Indirect recharge of CAP water. (ESRV subbasin)	54,000	73-534888.0101: CAWCD 73-534888.0301: AWBA 73-534888.0500: Chandler 73-534888.0604: Resolution Copper 73-534888.0700: Gilbert	54,000 54,000 20,000 54,000 20,000
72-545695.0004 (07/12/10 to 12/31/20)	RWCD	Roosevelt Water Conservation District: Indirect recharge of CAP water and effluent. Plan of operation modified to include Plan 6 water . (ESRV subbasin)	85,000	73-545695.1000: CAWCD 73-545695.0201: Chandler 73-545695.3002: Mesa 73-545695.7000: WUCFD 73-545695.0800 : Phelps Dodge 73-545695.0900: Act.Res.Mgmt 73-545695.1100: Gilbert 73-545695.1300: USBOR	50,000 40,000 85,000 20,000 14,000 50,000 20,000 50,000
72-553133.0002 (06/21/06 to 06/21/11)	Salt River Project	Salt River Project GSF: Indirect recharge of CAP water within the Salt River Project boundaries. Located in the central portion of the AMA in both the ESRV and WSRV subbasins.	200,000	73-553133.0101: Scottsdale 73-553133.0201: Peoria 73-553133.0301: Tempe 73-553133.0401: Chandler 73-553133.0501: Mesa 73-553133.0601: Phoenix 73-553133.0701: AWBA 73-553133.0901: Gilbert 73-553133.1200: CAWCD 73-553133.1300: Glendale 73-553133.1400: Del Webb	20,000 100,000 25,000 30,000 30,000 100,000 100,000 50,000 100,000 100,000 50,000
72-558246.0004 (01/11/10 to 01/11/15)	Maricopa Water District	MWD: Indirect recharge of CAP water within the MWD boundaries. (WSRV subbasin)	40,000	73-558246.0301 AAWC 73-558246.0401 AAWC 73-558246.0501: AAWC 73-558246.0601: Goodyear 73-558246.0701: Del Webb 73-558246.0800: CAWCD 73-558246.0900: AAWC 73-558246.1100: AAWC 73-558246.1200: Glendale	4,189 2,372 11,093 10,000 10,000 40,000 3,231 7,500 20,000
FACILITIES THAT ARE PERMITTED TO STORE EFFLUENT					
72-545695.0004 (07/12/10 to 12/31/20)	RWCD	Roosevelt Water Conservation District: Indirect recharge of CAP water and effluent . (ESRV subbasin)	85,000	73-547123.0000: Chandler 73-545695.4000: Mesa	3,100 8,900
72-572386.0002 (02/10/09 to 02/10/14)	Roosevelt Irrigation District	RID: Indirect recharge of effluent water. (southwestern portion of the WSRV subbasin)	30,000 or 60,000 in years when RID is unable to lease Salt River Project wells.	73-572386.0001: Phoenix 73-572386.0200: LPSCO 73-572386.0300: Buckeye	Phoenix and LPSCO same as facility; Buckeye 5,000

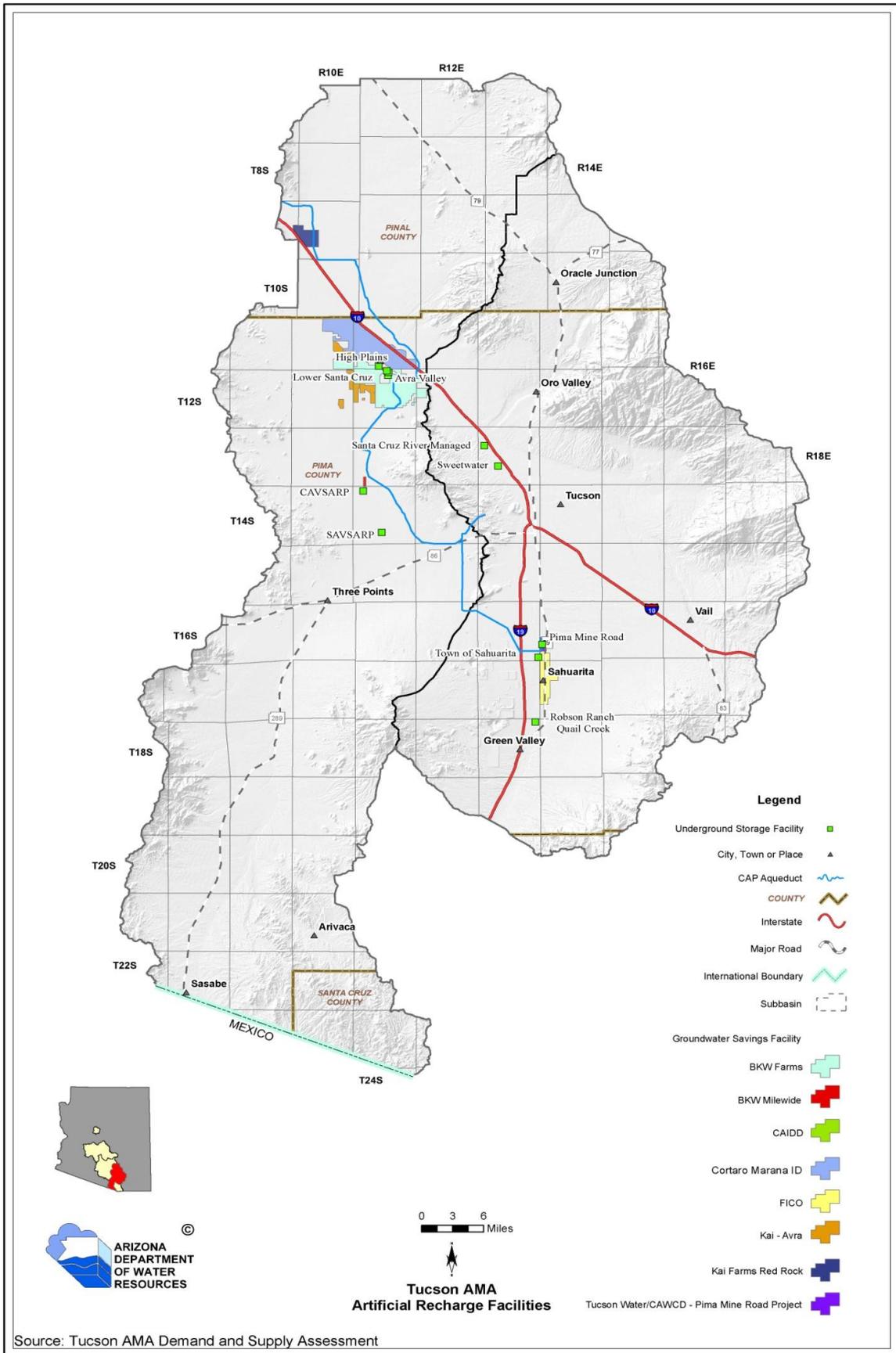


PINAL AMA Underground Storage Facilities

MAP LOC.	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
FACILITIES THAT ARE PERMITTED TO STORE EFFLUENT						
T7S R6E	71-209000.0001 (07/25/08 to 07/25/28)	Arizona City Sanitary District	<u>Arizona City Sanitary District Recharge Facility</u> : Annual recharge of effluent via basins.	Phase I : 1,120 Phase II : 2,240 Total storage not to exceed 30,000 at any time	73-209000.0000: AZ City Sanitary District	2,240
T6S R2E	71-211279.0000 (07/25/07 to 07/25/27)	Global Water	<u>Global Water Southwest Water Distribution Center</u> :	1,120	73-211279.0000: Global	1,120
T4S R8E	71-211290.0000 (03/29/10 to 03/29/30)	Johnson Utilities, LLC	<u>Anthem at Merrill Ranch Recharge Facility</u> :	3,360	73-211290.0000: Johnson Utilities	3,360
T5S R3E	71-216374.0000 (10/17/08 to 10/17/28)	Global Water	<u>Global Water Southwest Water Reclamation Facility (Campus 2)</u> :	Phase I : 1,120 Phase II : 2,240	73-216374.0000: Global Water	Phase I : 1,120 Phase II : 2,240
T4S R9E	71-519876.0002 (12/03/09 to 12/31/12)	Town of Florence	<u>North Florence Recharge Facility</u> : Annual recharge of effluent via infiltration basins.	135	73-519876.0001: Florence	135
T7S R7E	71-591932.0000 (02/03/04 to 02/03/24)	City of Eloy	<u>Eloy Reclaimed Water Recharge Project</u> : Annual recharge of effluent via infiltration basins.	2,240	73-591932.0000: Eloy	2,240
T7S R7E	71-591938.0002 (02/25/08 to 12/31/23)	Picacho Sewer Co.	<u>Sun Lakes at Casa Grande</u> : Annual recharge 340.4 acre-feet effluent water via basins and vadose zone wells.	340.4	73-591938: Picacho Sewer Co.	340.4
PENDING APPLICATIONS FOR FACILITIES THAT WILL BE PERMITTED TO STORE EFFLUENT						
	71-220045.0000	Eloy Detention Center	<u>Eloy Detention Center USF</u> :			

PINAL AMA Groundwater Savings Facilities

	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
FACILITIES THAT ARE PERMITTED TO STORE CAP WATER						
	72-531381.0004 (Pending)	Maricopa Stanfield Irrigation & Drainage District	Indirect recharge of CAP water at MSIDD.	120,000	73-531381.0101: AWBA 73-531381.0301: CAWCD 73-531381.0400: SRP 73-531381.0500: Santa Cruz WC 73-531384.0600: GRIC	120,000 120,000 20,000 120,000 120,000
	72-531382.0004 (03/20/09 to 12/31/17)	Central Arizona Irrigation & Drainage District	Indirect recharge of CAP water annually at Central Arizona Irrigation and Drainage District.	110,000	73-531382.0001: CAWCD 73-531382.0101: AWBA 73-531382.0400: SRP 73-531382.0500: Picacho Peak Gas 73-531382.0600: GRIC 73-531382.0201: Pinal County WAA	110,000 110,000 20,000 110,000 110,000 25,000
	72-534489.0003 (10/01/07 to 10/01/12)	Hohokam Irrigation & Drainage District	Indirect recharge of CAP water annually at Hohokam Irrigation District.	55,000	73-534489.0001: CAWCD 73-534489.0201: Pinal County WAA 73-534489.0300: Eloy 73-534489.0400: AWBA 73-534489.0500: Resolution Copper 73-534489.0600: Coolidge 73-534489.0700: GRIC	55,000 25,000 55,000 55,000 55,000 55,000



Source: Tucson AMA Demand and Supply Assessment

TUCSON AMA Underground Storage Facilities

MAP LOC.	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
FACILITIES THAT ARE PERMITTED TO STORE CAP WATER						
T14S R11E	71-211276.0002 (07/24/09 to 01/01/28)	City of Tucson/Tucson Water	SAVSARP:	60,000	73-211276.0000: Tucson 73-211276.0200: AWBA 73-211276.0300: Pascua Yaqui	60,000 60,000 500
T12S R11E	71-561366.0003 (04/29/09 to 02/28/19)	CAWCD and Pima County Flood Control District	Lower Santa Cruz Replenishment Project: STATE DEMONSTRATION PROJECT. Annual recharge of CAP via basins.	50,000 Total storage not to exceed 600,000	73-561366.0000: CAWCD 73-561366.0201: AWBA 73-561366.0300: MDWID 73-561366.0400: Robson 73-561366.0500: Marana 73-561366.0600: Augusta 73-561366.0700: Flowing Wells ID 73-561366.0800: Spanish Trails WC 73-561366.0900: Aqua Cap 73-561366.1100: Oro Valley 73-561366.1200: Tucson 73-561366.1300: Tohono O'odam Ntion 73-561366.1400: Vidler WC	30,000 50,000 15,000 4,000 30,000 15,000 2,800 43,000 30,000 50,000 50,000 50,000 50,000
T12S R11E	71-564896.0003 (12/20/10 to 03/27/18)	Metropolitan Domestic Water Improvement District	Avra Valley Recharge Project: Annual recharge of CAP via basins.	11,000	73-564896.0000: CAWCD 73-564896.0100: MDWID 73-564896.0200: AWBA 73-564896.0300: Marana 73-564896.0400: Augusta	11,000 11,000 11,000 11,000 11,000
T16S R14E	71-577501.0002 (06/16/08 to 09/06/20)	CAWCD	Pima Mine Road Full-Scale Recharge Project: Annual recharge of CAP via infiltration basins.	30,000 Total storage not to exceed 500,000	73-577501.0100: CAWCD 73-577501.0200: Tucson 73-577501.0300: AWBA 73-577501.0401: Green Valley WC 73-577501.0500: Augusta 73-577501.0600: Spanish Trails WC 73-577501.0700: Aqua Cap 73-577501.0800: Oro Valley 73-577501.0900: Tohono O'odam Ntion 73-577501.1100: Vidler	30,000 30,000 30,000 1,900 15,000 30,000 30,000 30,000 30,000 30,000
T14SR1 1ET13S R11E	71-578806.0002 (12/02/08 to 12/02/28)	City of Tucson/Tucson Water	CAVSARP: Annual recharge of CAP via basins	100,000 Total storage not to exceed 540,000	73-578806.0102: Tucson 73-578806.0201: AWBA 73-578806.0300: Pasqua Yaqui	100,000 80,000 500
FACILITIES THAT ARE PERMITTED TO STORE EFFLUENT						
T17S R15E	71-211284.0001 (05/11/09 to 02/10/29)	Pima County Regional Wastewater Reclamation Dept.	Corona de Tucson Wastewater Reclamation Facility:	Phase I: 1,120 Phase II: 2,240 Total storage not to exceed application volume	73-211284.0000: Pima County RWRD	Phase I: 1,120 Phase II: 2,240 Total storage not to exceed application volume
T13S R13E	71-520083.0001 (05/19/08 to 5/19/28)	City of Tucson/Tucson Water	Sweetwater Recharge Facilities: Recharge of Tucson effluent via infiltration basins.	13,000 Total storage not to exceed 26,000	73-520083.0001: Tucson Water	13,000
T13S R13E	71-545944.0001 (5/07/99 to 5/31/19)	City of Tucson/Tucson Water & U.S. Bureau of Reclamation	Santa Cruz Managed Recharge Project: Recharge of effluent via managed streambed in the Santa Cruz River.	9,307	73-545943.0100: Tucson 73-545943.0200: USBOR	9,307 9,307
T11S R11E	71-563876.0007 (06/10/09 to 11/24/28)	Pima County Flood Control District	High Plains Effluent Recharge Project: Recharge of effluent and surface water .	Phase I: 350 Phase II: 450 Phase III: 600	73-563876.0102: CMID; surface water only 73-563876.0200: Pima County RWRD	600 600
T18S R13E	71-581379.0001 (12/17/03 to 04/02/21)	Robson Ranch Quail Creek, LLC	Robson Ranch Quail Creek: Annual recharge of effluent via basins	2,240.3	73-581379: Robson Ranch Quail Creek	2,240.3
T11S R10E To T12S R12E	71-591928.0000 (11/04/03 to 11/30/23)	Tucson/ Pima County WWM/Oro Valley/ Marana/ Metropolitan DWID/Cortaro-Marana ID/Cortaro Water Users Assn./Avra Valley IDD/ Flowing Wells ID	Lower Santa Cruz River Managed Recharge Project: Annual recharge of effluent via managed streambed in Santa Cruz River from Ina Rd. to Trico Rd.	43,000 Total storage not to exceed 680,000	73-591928.0000: Tucson 73-591928.0200: MDWID 73-591928.0300: Oro Valley 73-591928.0400: Pima County WWM 73-591928.0500: USBOR	43,000 4,000 2,589 5,980 43,000

TUCSON AMA Underground Storage Facilities

MAP LOC.	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
T16S R13E	71-595209.0000 (11/30/07 to 11/30/27)	Town of Sahuarita	Town of Sahuarita Recharge Facility: Recharge of effluent from the Sahuarita WWTP via basins	896	73-595209.0000:Town of Sahuarita	896

TUCSON AMA Groundwater Savings Facilities

	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
	72-216383.0000 (01/05/10 to 01/05/15)	Herb Kai	Indirect recharge of CAP water at Kai Farms, Avra Valley	9,709.46	73-216383.0100: MDWID	9,709.46
	72-538100.0005 (11/09/08 to 11/09/13)	Cortaro Marana Irrigation District	Indirect recharge of CAP water at the Cortaro-Marana Irrigation District.	20,000	73-538100.0101: Spanish TrailsWC 73-538100.0301: MDWID 73-538100.0401: Marana 73-538100.0600: Aqua Capital 73-538100.0700:AWBA	20,000 15,000 5,000 20,000 20,000
	72-538133.0003 (09/21/09 to 09/21/14)	BKW Farms	Indirect recharge of CAP water at BKW Farms	14,316.66	73-538133.0301: Tucson 73-538133.0400: AWBA 73-538133.0500: CAWCD	14,316.66 14,316.66 14,316.66
	72-558092.0002 (11/01/06 to 11/01/16)	Herb Kai	<u>Kai Farms-Red Rock in Picacho</u> : Indirect recharge of CAP water.	11,231	73-558092.0101 : MDWID 73-558092.0201: CAWCD 73-558092.0301: Spanish Trails WC 73-558092.0401: Oro Valley 73-558092.0701: Vail WC 73-558092.0801: AWBA 73-558092.0900:Aqua Capital	11,231 11,231 11,231 6,748 11,231 11,231 11,231
	72-563502.0002 (09/21/09 to 09/21/14)	BKW Farms	<u>Milewide/BKW Farms</u> : Indirect recharge of CAP	612.8	73-563502.0201: Tucson	612.18
	72-584465.0001 (03/01/04 to 12/31/16)	FICO	<u>Farmers Investment Company</u> : Indirect recharge.	22,000	none	

OUTSIDE AMAS Underground Storage Facilities

MAP LOC.	FACILITY PERMIT Number and Duration	PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
T3N R11W	71-576699.0004 (10/25/00 to 09/30/20)	Vidler Water Company	Vidler Water Recharge Project: Recharge of CAP water through infiltration basins and vadose zone wells.	100,000	73-576699.0100: Vidler Water Co. 73-576699.0200: AWBA	100,000 100,000
T11N R11E	71-579155.0001 (04/21/04 to 12/10/12)	ADOT	SR260/ADOT: Annual recharge of CAP water via wells.	150	73-579155: ADOT NON-RECOVERABLE	150
T21S R21E	71-583024.0001 (04/18/03 to 06/30/23)	City of Sierra Vista	Recharge of effluent not to exceed 27,383 acre-feet of storage at any one time.	4,149	73-583024.0000: Sierra Vista	4,149

OUTSIDE AMAS Groundwater Savings Facilities

PERMIT HOLDER	PROJECT DESCRIPTION	FACILITY PERMIT VOLUME (AF/YR)	WATER STORAGE PERMIT NO./HOLDER	WATER STORAGE PERMIT VOLUME (AF/YR)
Harquahala Valley Irrigation District	HVID: Indirect recharge of CAP water within the HVID boundaries. (Harquahala subbasin)	50,000	73-593304.0100: AWBA	50,000