

Arizona Water Banking Authority
1110 W. Washington St, Ste. 310, Phoenix, Arizona 85007
Telephone 602-771-8487



February 27, 2020

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Governor Stephen R. Lewis
Gila River Indian Community
525 West Gu u Ki
Sacaton, Arizona 85147

AUTHORITY MEMBERS
Thomas Buschatzke, Chairman
Ray L. Jones, Vice-Chairman
Kathryn A. Sorensen, Secretary
Alexandra Arboleda
Mark Clark

EX OFFICIO MEMBERS
The Honorable Karen Fann
The Honorable Gail Griffin

RE: Satisfaction of Southside Protection Zone replenishment obligation

Dear Governor Lewis:

In October 2019, the Arizona Department of Water Resources (ADWR) notified the Arizona Water Banking Authority (AWBA) that a replenishment obligation had been incurred in the Southside Protection Zones for water use in calendar year 2018 (enclosed). Based on its analysis, ADWR determined that a replenishment obligation of 9.78 acre-feet had been created in the Municipal and Industrial (M&I) Eastern Protection Zone South. Pursuant to A.R.S. § 45-2623(A), the AWBA must satisfy the replenishment obligation by June 1 of the third calendar year following the year the obligation was created, in this instance, 2021.

The AWBA acknowledged its requirement to satisfy this replenishment obligation in its 2020 Plan of Operation, proposing to extinguish an equal volume of long-term storage credits (LTSCs). This method may be used if the LTSCs were earned within the last seven years and the storage facility is located within the protection zone where the obligation was created. The AWBA satisfied this obligation on February 26, 2020, by extinguishing 9.78 acre-feet of LTSCs accrued at the Hohokam Irrigation and Drainage District groundwater savings facility from water stored in 2013.

If you have any questions, please do not hesitate to contact me at (602) 771-8491.


Sincerely,

Virginia O'Connell
Director

Enclosures

cc: Linus Everling, General Counsel, Gila River Indian Community
Thomas Buschatzke, ADWR Director
AWBA Commission members

MEMORANDUM – Revised

To: Virginia O'Connell, Manager Arizona Water Banking Authority
 From: Thomas Buschatzke, Director 
 Subject: Southside Replenishment Obligations for 2018
 Date: October 10, 2019

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The Water Planning and Permitting Division has completed its analysis of water use in the Southside Protection Zones. The focus of the analysis was to determine if there are any annual replenishment obligations as required under A.R.S. § 45-2622. Replenishment obligations were calculated for each of the following subsections:

- 45-2622.B.1 Municipal and Industrial Replenishment Obligation for the Western Municipal and Industrial Protection Zone
- 45-2622.B.2 Municipal Replenishment Obligation for the Western Municipal Protection Zone
- 45-2622.B.3 Municipal and Industrial Replenishment Obligation for the Eastern Protection Zone North
- 45-2622.B.4 Municipal and Industrial Replenishment Obligation for the Eastern Protection Zone South
- 45-2622.B.5 Irrigation Replenishment Obligation for the Western Municipal and Industrial Protection Zone and the Western Municipal Protection Zone
- 45-2622.B.6 Irrigation Replenishment Obligation for the Eastern Protection Zone North and the Eastern Protection Zone South
- 45-2622.B.7 Water Company Replenishment Obligation for the Eastern Protection Zone
- 45-2611 Transportation of Underground Water and Stored Water away from Eastern Protection Zones and Western Protection Zones
- 45-2626 Individual Replenishment Obligations for Industrial Use

Replenishment Obligation:

The analysis shows that there is a replenishment obligation of 9.78 AF for the 2018 reporting year in the Municipal and Industrial Eastern Protection Zone South.

Individual Obligation:

There is no individual replenishment obligation because the industrial use in the Eastern Protection Zone South failed to reach the 3.5 AF/acre threshold described in A.R.S. § 45-2626.B. Please see the table below for additional details.

Industrial Use in the Municipal and Industrial Eastern Protection Zone South			
Right #	Groundwater Use (AF)	Acres Used On	Use Per Acre
58-107818.0010	402.59	161	2.50

Transportation of Underground Water and Stored Water:

The analysis did not identify any compliance issues with regard to the transportation of underground and stored water away from Eastern Protection Zones and Western Protection Zones.

If you have any questions or need further clarification, please call me at 602-771-8412.

Municipal and Industrial RO for the Western M&I Zone

45-2622 B 1 a.		45-2622 B 1 b.		45-2622 B 1 c.		45-2622 B 1 d.				
Amount Underground/Storage Withdrawn from within West. M&I zone for Municipal Uses with a Western prot. Zone	Amount Underground/Storage Withdrawn from within West. M&I zone for Industrial Uses with West M&I zone	Total Amount Underground/Storage Withdrawn from Industrial Uses with West M&I zone	Number of Municipal Acres on which the water was used	Number of Industrial Acres on which the water was used	Total Number of Municipal and Industrial Acres on which the water was used	Product from B1a divided by Total Number of Municipal and Industrial Acres on which the water was used	Total Number of Municipal and Industrial Acres on which the water was used mult. By 2.61	The quotient of b minus the product of c	a minus the product of c	Replenishment Obligation
5829.50	2996.83	9826.43	5089	1145.49	6214.49	1.58	12428.98	-12427.40	-2602.55	0
2018										

Municipal RO for the Western Municipal Zone

2018	45-2622 B 2 a. Amount Underground/Stored Withdrawn from w/in the West. Muni. Prot. Zone for Municipal Uses w/in Western Muni zone 0	45-2622 B 2 b. Number of Municipal Acres on which the water was used in the Western protection zones 0	45-2622 B 2 c. Total Number of Municipal Acres in the Western zones on which the water was used mult. By 2 at 0	45-2622 B 2 d. Quotient of b minus product of c 0	a minus the product of c 0	Replenishment Obligation 0
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Municipal and Industrial PD for Eastern Protection Zone North

45-2822 B 3 a.		45-2822 B 3 b.		45-2822 B 3 c.		45-2822 B 3 d.		45-2822 B 3 e.												
Amount Underground/Storage Withdrawn with Eastern Prot. Zone North for Municipal Uses w/in East Prot. Zone	208,20	Amount Underground/Storage Withdrawn with Eastern Prot. Zone North for Industrial Uses w/in East Prot. Zone	1114,59	Amount of Underground/Storage water withdrawn by water co. from Eastern Prot. Zone South & used for municipal w/in Eastern Prot. Zone North	0	Number of Municipal Acres on which the water withdrawn from the East Prot. Zone North was used w/in the Eastern Protection Zones	720	Number of Industrial Acres on which the water withdrawn from the East Prot. Zone North was used w/in the Eastern Protection Zones	553,92	Total Number of Municipal and Industrial Acres on which the water was used w/in the Eastern Protection Zones	1273,92	a plus b divided by total number of municipal and industrial Acres in column 1.	1,04	Total Number of Municipal and Industrial Acres on which the water was used w/in the Eastern Protection Zones multiplied by 2.33 of	2998,23	a minus quotient of c divided by product of d	-2987,20	a minus product of product of Oxygenation	1815,44	0
2018		208,20																		

Municipal and Industrial Replenishment Obligation for the Eastern Protection Zone South

45-2622 B 4 a.			45-2622 B 4 b.		45-2622 B 4 c.				45-2622 B 4 d.		45-2622 B 3 e.													
2018	Amount Underground/Stored w/in Eastern Prot Zone South for Municipal Uses w/in East Prot. Zone	3.29	Amount Underground/Stored w/in Eastern Prot. Zone South for Industrial Uses w/in East Prot. Zone North	402.59	Total Amount Underground/Stored w/in Eastern Prot Zone South M&I Uses w/in East Prot. Zone	405.88	Amount of Underground/Stored water withdrawn by Eastern Prot. Zone South & used for municipal w/in Eastern Prot. Zone North	0.09	Number of Municipal Acres on which the water withdrawn from the East Prot Zone South was used w/in the Eastern Protection Zones	9	Number of Industrial Acres on which the water withdrawn from the East Prot Zone South was used w/in the Eastern Protection Zones	161	Total Number of Municipal and Industrial Acres on which the water was used w/in the Eastern Protection Zones	170	(a minus b)/total m&i acres on which a other than b was used	2.39	Total Number of Municipal and Industrial Acres on which the water was used w/in the Eastern Protection Zones other than b multiplied by 2.35 a)	396.10	quotient of c minus product of d	-393.71	a minus the product of d	9.78	Replenishment Obligation	9.78

Water Company Replenishment Obligation for Eastern Protection Zone

45-266 B 7

2018	Amount underground water and stored water wdwrn by water co in easter zone and transported outside zone for muni use	208.20	Statutory threshold for replenishment obligation	1275	Replenishment Obligation (if greater than zero)	-1066.80
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2018 Right Type	Total Water Use	Groundwater Use	In-Lieu Use (GSF)	Gwr + In-Lieu	Total Flex Credits	Irrigation Acres
BMP						
Eastern Protection Zone North	58,675.13	25,029.14	17,639.90	42,689.04	-	12,028.58
Eastern Protection Zone South	1,970.10	1,682.82	86.46	1,769.28	-	1,257.09
Western Municipal and Industrial Protection Zone	24,962.72	9,419.50	10,166.98	19,586.47	-	5,686.73
Western Municipal Protection Zone	8,475.64	3,718.65	1,972.29	5,690.95	-	1,238.04
IGRs						
Eastern Protection Zone North	23,266.68	10,208.17	5,414.17	15,622.34	-	3,846.71
Eastern Protection Zone South	52,094.99	27,870.55	8,853.13	36,723.67	798,200.18	19,219.32
Western Municipal and Industrial Protection Zone	9,061.09	7,338.39	-	7,338.39	222,154.77	3,287.94
Western Municipal Protection Zone	9,917.77	4,600.93	1,728.13	6,329.06	223,819.84	4,339.08
Grand Total	13,506.26	5,931.01	3,140.75	9,071.76	175,281.74	5,316.03
Grand Total	110,770.13	62,889.69	26,493.03	79,392.72	799,200.18	31,247.90



DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

ARIZONA DEPARTMENT of WATER RESOURCES
1110 West Washington Street, Suite 310
Phoenix, Arizona 85007
602.771.8500
azwater.gov

February 26, 2020

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Arizona Water Banking Authority
Attn: Virginia O'Connell
1110 W. Washington St., Suite 310
Phoenix, AZ 85007

Re: Extinguishment of AWBA Long-Term Storage Credits for Replenishment Obligation in the Pinal AMA

Dear Ms. O'Connell:

Attached please find the accounting that documents the extinguishment of 9.78 acre-feet of AWBA's long term storage credits to fulfill the replenishment obligation created in the Municipal and Industrial Eastern Protection Zone South in 2018.

If you have any questions regarding this extinguishment, please contact Kym Luttermoser at (602) 771-8660.

Sincerely,


David L. McKay, Manager
Recharge, Assured & Adequate Water Supply Programs

Attachment

DLM/kcl

ARIZONA DEPARTMENT OF WATER RESOURCES 2020
EXTINGUISHMENT ACCOUNT SUMMARY

2/20/2020

ACCOUNT NAME AWBA - EXTINGUISHMENT (PINAL AMA) LTSA

ACCOUNT NUMBER 70-431135.0004

ACCOUNT BALANCE 9.78

All volumes expressed in acre-feet (AF)

CREDITS EXTINGUISHED ACTIVITY				
LTSA RECEIVED FROM	WSP NUMBER	TYPE OF WATER		VOLUME
70-431135.0000 AWBA-MAIN (PINAL AMA) LONG	73-534489 0400	CAP	BEGINNING BALANCE	0.00
			TRANSFER IN, ON 02/20/2020, CREDIT YEAR = 2013	9.78
CUMULATIVE WSP CREDIT BALANCE				9.78
TOTAL CREDITS EXTINGUISHED				9.78