# IN THE SUPERIOR COURT OF THE STATE OF ARIZONA IN AND FOR THE COUNTY OF MARICOPA

# IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE

## MANDATORY FORM FOR OBJECTIONS TO The Hydrographic Survey Report for The San Pedro River Watershed

No. W111002398

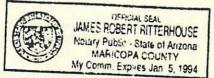
Please file a separate objection for each Watershed File Report, Zone 2 Well Report or Catalogued Well Report. Objections to information contained in Volume 1 of the HSR can be stated on one objection form. Objections must be written. Use of this form, or a computer facsimile, is required. Objections must be received on or before May 18, 1992.

	cted to Watershed			or Catalogued We	INO.	
		11304DCD 011				
		(please insert no.)		(please insert no.)		
		OBJE	CTOR INFORMA	TION		
Objector's Name:	Gila River Indian Community	SanCa	arlos Apache Tribe;Tonte	Apache Tribe; Yavapai	-Apache Indian Community, Camp Ve	erdeReservation
	C/O Cox & Cox	C/O S	parks & Siler, P.C.			
Objector's Address:	Suite 300 Luhrs Tower, P.O.	Box 4245 7503 F	irst Street			
	Phoenix, AZ 85030	Scotts	dale, AZ 85251			
Objector's Telephone	e: (602) 254-7207	(602) 9	949-1988			
Objector's Watershed	d File Report or Zone 2 Well Re	port No. (if the Objector's	claimed water rights a	re within the San Pedro	River Watershed):	
Dr Objector's Catalog	gued Well Number (if the Object	or's claimed water rights	appear only in Volume	8 of the HSR):		
Or Objector's Statem	ent of Claimant No. (if the Obje	ctor's claimed water right	s are located outside th	e San Pedro River Wal	ershed):	
39-11-05-	478 39-05-41142	39-07-12652	39-07-12676	39-05-50058	39-07-12169	
39-U8-60	083 <b>39-L8-36340</b>	39-L8-37360	39-U8-63614	39-07-12675	39-05-50059	
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	VEF	RIFICATION (must	be completed by object	or)		
	VEF	RIFICATION (must			In this proceeding or the duly-auth	orized
COUNTY OF M	VEF		l declare under pe	rjury that I am a claima	nt in this proceeding or the duly-auth ead the contents of this Objection (be	
COUNTY OF M	VEF ARICOPA bjection. I certify that, if required	l, a copy of the	I declare under per representative of a	rjury that I am a claima a claimant; that I have r	ead the contents of this Objection (be	oth sides
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COUNTY OF MA I hereby make this O foregoing Objection v mailing true and corre May, 1992, postage p Name: DUNGAN Address: BOX 234	VER ARICOPA bjection. I certify that, if required was served upon the following C ect copies thereof on the prepaid and addressed as follow	d, a copy of the claimant(s) by day of	I declare under per representative of a and any attachme Objection is true b which are indicate I believe them to b	rjury that I am a claima a claimant; that I have r nts) and know the contr ased on my own persor d as being known to me	ead the contents of this Objection (but ents thereof; and that the information hal knowledge, except those portions e on information and belief and, as to	oth sides contained in the of the Objection
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(The above section must be completed if you object to another claimant's Watershed File Report, Zone 2 Well Report, or Catalogued Well Report. It does not need to be completed if you file an objection to your **own** Watershed File Report, Zone 2 Well Report, Catalogued Well report; or to information contained in Volume 1 of the Hydrographic Survey Report.)

Notary Public for the State of Arizona

ames K. K.



Objections must be filed with the Clerk of the Superior Court in and for Maricopa County, Maricopa County Courthouse Annex, 3345 W. Durango Street, Phoenix, AZ 85009, on or before May 18, 1992.

# STATEMENT OF THE OBJECTION

The following are the main categories of the typical Watershed File Report (Zone 2 Well Reports and some Watershed File Reports tack certain categories). Please check the category(ies) to which you object, and state the reason for the objection on the back of this form.

- 1. I object to the description of Land Ownership

X 2. I object to the description of Applicable Filings and Decrees

- 3. I object to the description of DWR's Analysis of Filings and Decrees

- X 4. I object to the description of Diversions for the claimed water right(s)
- 5. I object to the description of Uses for the claimed water right(s)
- 6. I object to the description of Reservoirs used for the claimed water right(s)

- 7. I object to the description of Shared Uses & Diversions for the claimed water right(s)

- 8. I object to the PWR (Potential Water Right) Summary of the claimed water right(s)

X 9. I object to the description of Quantities of Use for the claimed water right(s)

- 10. I object to the Explanation provided for the unclaimed water right(s)

- 11. Other Objections (please state volume, page and line number for each objection)

#### **REASON FOR OBJECTION**

The reason for my objection is as follows (please number your objections to correspond to the boxes checked above; please attached supporting information and additional pages as necessary. The following objection(s) are based upon information and belief:

# CATEGORY

NUMBER

4 The use of the water claimed depletes water for senior federal and Indian water rights (1150).

2 HSR coes not show a well registration filing (420).

9 HSR does not show a claimed water use rate (1000).

## IN THE SUPERIOR COURT OF THE STATE OF ARIZONA IN AND FOR THE COUNTY OF MARICOPA

# IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE

No. W1,W2,W3 & W4

## MANDATORY FORM FOR OBJECTIONS TO The Hydrographic Survey Report for The San Pedro River Watershed

Please file a separate objection for each Watershed File Report, Zone 2 Well Report or Catalogued Well Report. Objections to information contained in Volume 1 of the HSR can be stated on one objection form. Objections must be written. Use of this form, or a computer facsimile, is required. Objections must be received on or before May 18, 1992.

This objection is directed to Watershed			or Catalogued Well No.	
File Report or Zone 2 Well Report No		13 - 04 - DCD - 011 ( please insert no. )	(please insert no.)	
		OBJECTOR INFO	RMATION	
Objector's Name:		per Company (1267		
Objector's Address:	7400 North C Suite 200	Dracle Rd	P.O. Box 8 Hayden, Arizona 85235	
Obiestada Talashasa Na	Tucson, Arizo		•	
Objector's Telephone No.: * The names, ad	(602) 575-56 dresses and telephon		(602) 356-7811 ttorneys are on the back of this form.	
Or Objector's Catalogued V	ASARCO	Incorporated: 11	13-08-XXXX-022, et al. 4-01-XXXX-005, et al. Its appear only in Volume 8 of the HSR): <u>ABLE</u>	
Or Objector's Statement of	Claimant No. (if the C	Dijector's claimed water riç 39 - <u>NOT APPLI</u>	nts are located outside the San Pedro River Watershed):	
STATE OF ARIZON	Α			
COUNTY OF MARI	COPA	VERIFICATI	ON (must be completed by objector)	
I hereby make this Objection forgoing Objection was serve true and correct copies the <u>May</u> , 199 <u>2</u> , postage	on. I certify that, if re- ad upon the following ( eof on the <u>11th</u> da	Claimant(s) by mailing ay of	I declare under penalty of perjury that I am a claimant in this proceeding or the duly-authorized representative of a claimant; that I have read the contents of this Objection (both sides and any attachments) and know the contents thereof; and that the information contained in the Objection is true based on my own personal knowledge, except those portions of the Objection which are indicated as being known to me on information and belief and, as to those	

signature of Objector's Representative (Magma)

Signature of Objector's Aepresentative

SUBSCRIBED AND SWORN to before me this <u>11th</u> day

Mav of



(The above section must be completed if you object to another claimant's Watershed File Report, Zone 2 Well Report, or Catalogued Well Report. It does not need to be completed if you file an objection to your <u>own</u> Watershed File Report, Zone 2 Well Report, Catalogued Well Report; or to information contained in Volume 1 of the Hydrographic Survey Report)

Objections must be filed with the Clerk of the Superior Court in and for Maricopa County, Maricopa County Courthouse Annex, 3345 W. Durango Street, Phoenix, AZ 85009, on or before May 18, 1992.

NameDUNGAN, CREOLA M.and&& ALLEN MARY E.AddressBOX 234MAMMOTH, AZ 85618

#### STATEMENT OF THE OBJECTION

The following are the main categories of the typical Watershed File Report (Zone 2 Well Reports and some Watershed File Reports lack certain categories). Please check the category(les) to which you object, and state the reason for the objection on the back of this form.

0	1.	I object to the description of Land Ownership
	2.	I object to the description of Applicable Filings and Decress
	З.	I object to the description of DWR's Analysis of Filings and Decrees
<b>K</b> ×	4.	I object to the description of Diversions for the claimed water right(s)
	5.	I object to the description of Uses for the claimed water right(s)
	6.	I object to the description of Reservoirs used for the claimed water right(s)
0	7.	I object to the description of Shared Uses & Diversions for the claimed water right(s)
<b>X</b> X	8.	l object to the PWR (Potential Water Right) Summary of the claimed water right(s)
	9.	t object to the description of Quantities of Use for the claimed water right(s)
	10.	I object to the Explanation provided for the claimed water right(s)
×9	11.	Other Objections (please state volume, page and line number for each objection)

## **REASON FOR OBJECTION**

The reason for my objection is as follows (please number your objections to correspond to the boxes checked above; please attach supporting information and additional pages as necessary):

Category Number: 4, 8 and 11

Magma Copper Company ("Magma") and ASARCO Incorporated ("ASARCO") submit this objection as co-objectors.

Magma and ASARCO object to the inclusion of groundwater in this Adjudication because groundwater is neither appropriable under Arizona law (Uniform Objection Code Nos. 500, 510, 1120 and 1132), nor is it subject to claims based on federal law (Uniform Objection Code Nos. 561, 562, 1120 and 1134). In addition, this objection is intended to preserve these issues until such time as each is resolved by the Arizona Supreme Court. (Uniform Objection Code No. 1130)

While this objection pertains to a specific Watershed File Report ("WFR"), Magma and ASARCO are objecting to each WFR that classifies a well as a "Zone 1 Well" or otherwise employs the "50% - 90 day standard" to create a presumption of a well's diversion of appropriable surface water.

With respect to this particular WFR, Magma and ASARCO presently believe that the subject well(s) is/are taking nonappropriable groundwater not subject to the Gila Adjudication. However, should it be determined that the well(s) is/are taking appropriable surface water, Magma and ASARCO object to such use where such taking is a diversion of surface water without an appropriative right under state law and/or is interfering with the water rights of Magma or ASARCO. (Uniform Objection Code Nos. 600, 610 and 1150)

Magma and ASARCO are also filing this objection to obtain notice and an opportunity to be heard on all issues in the event that claims to the groundwater referenced in claimant's WFR are adjudicated.

Attorneys for Magma:

Robert B. Hoffman (004415) Carlos D. Ronstadt (006468) Jeffrey W. Crockett (012672) SNELL & WILMER One Arizona Center Phoenix, Arizona 85004-0001 (602) 382 - 6000 Attorneys for ASARCO:

Burton M. Apker (001258) Gerrie Apker Kurtz (005637) APKER, APKER, HAGGARD & KURTZ, P.C. 2111 E. Highland, Suite 230 P.O. Box 10280 Phoenix, Arizona 85064-0280 (602) 381 - 0085

## IN THE SUPERIOR COURT OF THE STATE OF ARIZONA IN AND FOR THE COUNTY OF MARICOPA

IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE

## No. W1,W2,W3 & W4 Contested Case No. W1-11-002398

## MANDATORY FORM FOR OBJECTIONS TO The Hydrographic Survey Report for the San Pedro River Watershed

Please file a separate objection for each Watershed File Report, Zone 2 Well Report or Catalogued Well Report. Objections to information contained in Volume 1 of the HSR can be stated on one objection form. Objections must be written. Use of this form, or a computer facsimile, is required. Objections must be received on or before May 18, 1992.

This objection is directed to Watershed File Report or Zone 2 Well Report No.	<u>113-04-DCD -011</u> (please insert no.)	or Catalogued Well No.
	OBJECTOR INFORMATIO	N
Objector's Name:	Salt River Proj	ect
Objector's Address:	Post Office Box	52025
	Phoenix, Arizon	a 85072-2025
Objector's Telephone No:		
		or's claimed water rights are within the San Pedro
Or Objector's Catalogued Well Number (i	f the Objector's claimed water rig	nts appear only in Volume 8 of the HSR):
39-07 <u>010</u> 39-05 <u>500</u>	(if the Objector's claimed water )40, 01041, 01206, 01 )53, 50054, 50055 212, 35213	rights are located outside the San Pedro Watershed): 207, 01998

#### STATE OF Arizona

COUNTY OF Maricopa

I hereby make this Objection. I certify that, if required, copy of the foregoing Objection was served upon the following Claimant(s) by mailing true and correct copies thereof on the <u>14</u>th day of <u>May</u>, 199<u>2</u>, postage prepaid and addressed as follows:

Name: DUNGAN, CREOLA M.

Address: BOX 234

MAMMOTH, AZ 85618

(The above section must be completed if you object to another claimant's Watershed File Report, Zone 2 Well Report, or Catalogued Well Report. It does not need to be completed if you file an objection to your own Watershed File Report, Zone 2 Well Report, Catalogued Well Report, or to information contained in Volume 1 of the Hydrographic Survey Report.)

VERIFICATION (must be completed by objector)

I declare under penalty of perjury that I am a claimant in this proceeding or the duly-authorized representative of a claimant; that I have read the contents of this Objection (both sides and any attachments) and know the contents thereof; and that the information contained in the Objection is true based on by own personal knowledge, except those portions of the Objection which are indicated as being known to me on information and belief and, as to those portions, I believeNthem to be\_true.

ann

Signature of Objector or Objector's Representative

SUBSCRIBED AND SWORN to before me this 1st day of May. 1992.

Birda Oep	person
Notary Jublic for the State of	Arizona
Residing at Maricopa County	OFFICIAL SEAL
My commission expires	Notary Public - State of Arizona MARICOPA COUNTY My Comm. Expires March 24, 1995

Objections must be filed with the Clerk of the Superior Court in and for Maricopa County, Maricopa County Courthouse Annex, 3345 W. Durango Street, Phoenix Az 85009, on or before May 18, 1992.

## Watershed File Report: 113-04-DCD -011 Vol-Tab-Pg 5-2-054 DUNGAN, CREOLA M.

#### STATEMENT OF THE OBJECTION

The following are the main categories of the typical Watershed File Report (Zone 2 Well Reports and some Watershed File Reports lack certain categories). Please check the category(ies) to which you object, and state the reason for the objection on the back of this form.

- [] 1. I object to the description of LAND OWNERSHIP
- [] 2. I object to the description of APPLICABLE FILINGS AND DECREES
- [] 3. I object to the description of DWR'S ANALYSIS OF FILINGS AND DECREES
- [] 4. I object to the description of the DIVERSIONS for the claimed water right(s)
- [] 5. I object to the description of the USES for the claimed water right(s)
- [] 6. I object to the description of RESERVOIRS used for the claimed water right(s)
- [] 7. I object to the description of SHARED USES & DIVERSIONS for the claimed water right(s)
- [] 8. I object to the PWR (POTENTIAL WATER RIGHT) SUMMARY of the claimed water right(s)
- [X] 9. I object to the description of the QUANTITIES OF USE for the claimed water right(s)
- [] 10. I object to the EXPLANATION provided for the claimed water right(s)
- [] 11. Other Objections (please state volume number, page number and line number for each objection)

#### **REASON FOR OBJECTION**

The reason for my objection is as follows (please number your objections to correspond to the boxes checked above; please attach supporting information and additional pages as necessary):

#### CATEGORY NUMBER

Ŋ,

	SEE ATTACHMENT 1
	In this attachment the uniform code designated by the
	Special Master in accordance with Case Management
	Order No. 1 is shown in parenthesis following each
	objection statement.
<u></u>	

PAGE: 2

#### **ATTACHMENT 1**

# WFR CATEGORY 9 - QUANTITIES OF USE

The Salt River Project objects to the quantities of use assigned to this Potential Water Right (PWR). The maximum observed and regional methods used by DWR for determining quantities of use for certain agricultural irrigation PWRs are inconsistent with the Arizona doctrine of prior appropriation; these methods are also technically inaccurate. The maximum potential method used by DWR for determining quantities of use is consistent with Arizona law; however, several technical corrections are necessary. For an additional discussion of the problems associated with DWR's methods of quantification for this type of PWR, see the Salt River Project's Volume 1 objections to these methods, a copy of which is attached to this objection and incorporated herein by reference (1020). This objection applies to: IR001 and IR002.

\* \* \* \*

The Salt River Project objects to the failure of DWR to calculate a diversion rate for this Potential Water Right (PWR). All PWRs assigned a point or points of diversion should be assigned a separate diversion rate for each point of diversion. Diversion rates should be calculated at the point of diversion and should include conveyance losses (1010). This objection applies to: IR001 and IR002.

## EXCERPT FROM SALT RIVER PROJECT OBJECTIONS TO VOLUME 1 OF THE SAN PEDRO RIVER HSR

#### IRRIGATION QUANTITY ESTIMATES

(page numbers refer to Volume 1)

#### INTRODUCTION

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The Salt River Project objects to DWR's estimation methods and results for irrigation water quantities for the following reasons:

First, the Salt River Project objects to DWR's estimation of water duty under both the "maximum observed" and "regional" methods. In the absence of decreed rights, which must be accepted by the court in the absence of abandonment, Arizona law requires that the extent of an appropriative right be measured according to the quantity of water that the appropriator diverted for beneficial use since the time of the appropriation. A.R.S. § 45-141(B) ("Beneficial use shall be the basis, measure and limit to the use of water"). Neither the "maximum observed" or "regional" quantification methods employed by DWR properly estimate maximum actual historical beneficial use as required by law.

The Salt River Project supports DWR's estimation of water duty using the "maximum potential" method since, in the absence of sufficient historical records, this method properly estimates maximum actual historical beneficial use.

Second, DWR's method to compute maximum observed water duty does not accurately estimate maximum actual historical beneficial use since it incorporates inaccurate crop irrigation requirements, deficit irrigation, five years or less of crop history, or overly high efficiency estimates.

Third, although DWR has developed new terminology in reporting regional water duties, DWR still uses the Arizona Groundwater Code method of "areas of similar farming conditions" (ASFC), now termed "regional farming conditions" (RFC). The RFC method assigns a weighted average consumptive use requirement to the water duty equation based upon the types of crops recently grown by appropriators in a designated area. Historical information or records evincing an individual claimant's actual cropping patterns and the quantities of water actually used to cultivate such crops since the time of appropriation are not considered. In fact, the Court noted that "[average efficient use] is not directly related to what is the property's water right[s] . . . " (Entitlement Order at 6). Under the prior appropriation doctrine, an appropriator who has grown alfalfa on his property historically is entitled to a water duty that will support alfalfa, regardless of the crops that he or his neighbors are currently growing. Under DWR's "averaging" approach, an appropriator in this situation would be assigned an apparent entitlement inadequate to meet crop needs.

Additionally, under the RFC concept, the efficiency of various irrigation methods is averaged among appropriators, thus further exacerbating the inadequate water duty for the appropriator who does not have a system with above-average efficiency.

Fourth, there are a number of technical errors in DWR's calculation of crop consumptive use including the use of a five year crop history, adjusted weather data, relative humidity, growing season, effective precipitation, crop coefficients, alfalfa stand establishment, deficit irrigation, and efficiency estimates.

#### Five Year Crop History

# pp. 146-151, C-18, C-19, C-68 through C-78

The Salt River Project objects to DWR's use of its five year investigation period for computing acreages irrigated for maximum observed quantification and for computing crop irrigation water requirements for both maximum observed and regional quantifications. Indeed, it appears that DWR has relied heavily on a single year (1990) of crop survey data. The information developed from a single year, or five year period, cannot be used to properly estimate actual historical beneficial use since low consumptive use crops or no crop may be present during the period. Thus, historical cropping practices or completion of a crop rotation are not reflected.

#### Adjusted Weather Data

#### pp. C-6 through C-19

The Salt River Project objects to DWR's adjustment of weather station temperatures from recorded values and relative humidities from estimated values. The temperature and relative humidity adjustment procedure is intended for prediction of crop water requirements for large, new irrigation developments where the current observations are from a nearby non-irrigated area. Because of the "clothesline" configuration of San Pedro irrigated areas in relation to the extremely arid surrounding environment, it is extremely doubtful there is any moderating effect due to surrounding irrigated land or to the San Pedro River.

#### Relative Humidity

#### pp. C-9, C-17, C-25, C-29, C-34, C-92

The Salt River Project objects to DWR's failure to specify whether it used <u>minimum</u> relative humidity as specified in Food and Agricultural Organization (FAO) Paper 24. Minimum relative humidity is not reported by Sellers and Hill. Furthermore, their 6 p.m. (1800 hours) data must be adjusted downward to reflect lower humidity in midafternoon. The proper publication date for <u>Arizona Climate, 1931-1972</u>, by Sellers and Hill, is 1974.

### Growing Season

#### pp. C-20, C-24

The Salt River Project objects to DWR's use of field observations during one or just a few years to estimate the length of growing season for perennial crops. A few field observations of irrigation dates do not define the water use period because water use occurs both before and after irrigation and because growing seasons vary from year to year. Growing seasons can best be determined for perennial crops by a relationship between plant growth and mean temperature or mean date of low temperatures over an extended period of record.

# Effective Precipitation pp. C-38, C-40 through C-49

The Salt River Project objects to DWR's method of estimating nongrowing season effective precipitation. The procedure used neglects runoff, uses soil constant values that are highly variable and not well quantified, and is unclear about assumptions of initial soil moisture conditions for each month. Published methods can be used to estimate non-growing season effective precipitation for the winter months, the relevant period for most crops. Furthermore, the Salt River Project objects to DWR's use of a 50 percent probability of precipitation, which results in an inadequate supply in one-half of the years. A 50 percent probability indicates that <u>average</u> effective precipitation is subtracted from crop consumptive use when DWR calculates the irrigation This means that in years of below-average precipitation, requirement. irrigation users would be unable to replace the lack of precipitation with additional irrigation water. The amount of precipitation that is available 80 percent of the time for field crops and 90 percent of the time for orchards and vegetables is appropriate.

## Crop Coefficients

## p. C-33

The Salt River Project objects to DWR's use of 0.8 as the kc for Winter Pasture. Winter Pasture is a cool-season grass mixture that has a higher crop coefficient than a warm-season grass. SRP also objects to DWR's use of the mean of kc1 and kc3 as a value for kc2, instead of interpolation. Both FAO-24 and University of California Leaflet 21427 specify interpolation.

## Alfalfa Stand Establishment

## p. C-37

The Salt River Project objects to DWR's failure to include water for alfalfa stand establishment as an "Other Need."

## **Deficit Irrigation**

## pp. C-4, C-5, C-54 through C-68

The Salt River Project objects to DWR's use of deficit irrigation values for the maximum observed quantification for water right entitlements. As noted above, maximum actual historical beneficial use is the proper measure of a water right entitlement, not current practice.

### Efficiency Estimates

## pp. 138-140, C-51 through C-54

The Salt River Project objects to DWR's omission of the effect of a rotation delivery system on On-Farm Irrigation Efficiency. A rotation delivery system reduces On-Farm Irrigation Efficiency below that which can be achieved if irrigation water is available on demand.

The Salt River Project also objects to DWR's use of average estimated values of irrigation efficiency for regional quantification. The use of average efficiencies understates entitlements for one-half of all irrigated acres on this basis alone.