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

No. W1,W2,W3 & W4 W111001902

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

Please use 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.

112-17-BAD-007

or Catalogued Well No.

### OBJECTOR INFORMATION

Objector's Name:

À

City of Phoenix

Objector's Address:

Suite 800

251 W. Washington St. Phoenix, AZ 85003

Objector's Telephone: (602)-262-6761

Objector's Watershed File Report or Zone 2 Well Report No. (if the Objector's claimed water rights are within the San Pedro River Watershed): N/A

Or Objector's Catalogued Well Number (if the Objector's claimed water rights appear only in Volume 8 or the HSR): N/A

Or Objector's Statement of Claimant No. (if the Objector's claimed water rights are located outside the San Pedro River Watershed):

39-07-7927; 39-05-50153 through 39-05-50155; 39-L8-37666 through 39-L8-37691

STATE OF ARIZONA
COUNTY OF MARICOPA

VERIFICATION

I hereby make this Objection. I certify that, if required, a copy of the foregoing Objection was served upon the claimant(s) by mailing true and correct copies thereof on the 18th day of May, 1992, postage prepaid and addressed

as follows:

HAGAN, LESTER & W. RUTH

&ET AL. BOX 1378

BENSON

AZ 85602



OFFICIAL SEAL CHARLENE ZAVALA

Notary Public - Arizona
Principal Offices in
Maricopa County

My Commission Expires May 24,

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. 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; 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 portions, h believe them, to be true.

Signature of Objector or Objector's Representative

SUBSCRIBED AND SWORN to before me this 18th day of May, 1992

Notary Public for the State of Arizona Residing at: Phoenix, Maricopa County, Arizona My commission expires: MAY 24, 1992

Marlene Zausla

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 **Diversions** for the claimed water right(s)
- X 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 & Diversion for the claimed water right(s)
- x 8. 1 object to the PWR (Potential Water Right) Summary of the claimed water right(s)
  - 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 claimed water right(s)
- X 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

Numbers

5

8 11

### Attachment to Watershed File Report: 112-17-BAD-007

PHOENIX OBJECTS TO CATEGORIES 5 AND 8 FOR THE REASON THAT: DWR REPORTS USES WHICH ARE UNRELATED TO ANY STATEMENT OF CLAIMANT, THUS UNLAWFULLY PERMITTING A DECREE OF RIGHTS WHEN LESTER AND RUTH HAGAN HAVE NEVER FILED A CLAIM IN THIS ADJUDICATION. (475)
PHOENIX OBJECTS TO CATEGORY 11 FOR THE REASON THAT: A SIMILAR OBJECTION IS MADE BY PHOENIX TO VOLUME 1, PAGES 562-570. (145)

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

No. W1, W2, W3 & W4 W1-11-001902

### 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>112 - 17 - BAD - 007</u>

( please insert no. )

or Catalogued Well No.

(please insert no.)

### **OBJECTOR INFORMATION**

Objector's Name:

Magma Copper Company (1267)

**ASARCO Incorporated (1263)** 

Objector's Address:

7400 North Oracle Rd

P.O. Box 8

Suite 200

Hayden, Arizona 85235

Tucson, Arizona 85704

Objector's Telephone No.:

(602) 575-5600

(602) 356-7811

\* The names, addresses and telephone numbers of Objectors' attorneys are on the back of this form.

Objector's Watershed File Report or Zone 2 Well Report No. (if the Objector's claimed water rights are within the San Pedro River Watershed):

Magma Copper Company: 113-08-XXXX-022, et al. ASARCO Incorporated: 114-01-XXXX-005, et al.

Or Objector's Catalogued Well Number (if the Objector's claimed water rights appear only in Volume 8 of the HSR):

### **NOT APPLICABLE**

Or Objector's Statement of Claimant No. (if the Objector's claimed water rights are located outside the San Pedro River Watershed):

39 - NOT APPLICABLE

STATE OF **ARIZONA** 

**VERIFICATION** 

(must be completed by objector)

### COUNTY OF MARICOPA

I hereby make this Objection. I certify that, if required, a copy of the forgoing Objection was served upon the following Claimant(s) by mailing true and correct copies thereof on the 11th day of

May , 199 2 , postage prepaid and addressed as follows:

Name

HAGAN, LESTER & W. RUTH

and

&ET AL.

Address BOX 1378

**BENSON. AZ 85602** 

(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)

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 Libelieve them to be true. portions.

Signature of Objector's Representative

SUBSCRIBED AND SWORN to before me this

OFFICIAL SEAL MARIANNE DUNCAN SHIPPEE Notary Public - State of Anzona MARICOPA COUNTY My Comm. Expires July 17, 1994

The following are the main categories of the typical Watershed File Report (Zone 2 Well Reports and some Watershed File Reports lack certain

categones	s). I	Please check the category(les) 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
<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)
	7.	I object to the description of Shared Uses & Diversions for the claimed water right(s)
<b>∑</b> ok	8.	I object to the PWR (Potential Water Right) Summary of the claimed water right(s)
	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 claimed water right(s)
<b>⊠</b> x	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 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 faccing the interest of the state of or a computer facsimile, is required. Objections must be received on or before May 18, 1992.

This objection is directed to Wat File Report or Zone 2 Well Report		007	or Catalogued Well No.  (please insert no.)
	OBJECTOR INI	FORMATION	
Objector's Name:	Michael R. Gray, M.	D., M.P.H.	
Objector's Address:	789 E. McNeil - Ben	son, AZ 85602	2
Objector's Telephone No.: (	602, 586-7564		•
Objector's Watershed File Repo	rt or Zone 2 Well Report No. (if the Objector's	s claimed water rights are with	in the San Pedro River Watershed):
	112 - 17 - 1	BAD - 007	
Or Objector's Catalogued Well N	Number (if the Objector's claimed water rights		e HSR):
	<del></del>		
Or Objector's Statement of Clain	mant No. (if the Objector's claimed water right		Pedro River Watershed):
STATE OF ARIZONA COUNTY OF COCHISE	VERIFICATION	(must be completed by o	bjector)
I hereby make this Objection. foregoing Objection was served mailing true and correct copies t	I certify that, if required, a copy of the upon the following Claimant(s) by	or the duly- authorized repre- contents of this Objection (bo contents thereof; and that the true based on my own perso Objection which are indicate	erjury that I am a claimant in this proceeding sentative of a claimant; that I have read the oth sides and any attachments) and know the the information contained in the Objection is nal knowledge, except those portions of the d as being known to me on information and ons, I believe them to be true.
		Musical Sp. Signature of Objector or Obj	Oscar 640 . ector's Bepresentative
claimant's Watershed File Re Well Report. It does not ne objection to your own Wate	e completed if you object to another eport, Zone 2 Well Report, or Catalogued ed to be completed if you file an ershed File Report, Zone 2 Well Report, to information contained in Volume 1 of eport.)	Notary Public for the State Residing at St. Day	ORN to before me this <u>18</u> day of

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.

3. I object to the description of DWR's Analysis of Filings and Decrees  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)  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 claimed water right(s)	
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CATEGORY NUMBER:	porting information
l See Attached	
2 See Attached	
4 See Attached	
5 See Attached	
6 See Attached	
7 See Attached	
8 See Attached	
10 See Attached	

WATERSHED FILE REPORTS NUMBER 112-17-BAD-007 REASONS FOR OBJECTIONS FILED MAY 18, 1992 ATTACHMENT TO MANDATORY FORM FOR OBJECTIONS

1. I object to the description of Land Ownership. The reason for my objection is as follows: I, Michael R. Gray, purchased the referenced properties, and their attendant water rights, and took possession of same on August 1, 1990.

2. I object to the description of Applicable Filings and Decrees. The reason for my objection is as follows: There are none shown. I believe other filings exist, as the well was first dug and registered in the 1940's, and prior to that this property was irrigated by other methods of diversion, specifically canal irrigation.

- 4. I object to the description of **Diversions** for the claimed water rights. The reason for my objection is as follows:
  - a. The source of water is classified as Zone 1, however the drainage characteristics in this area are such that the water involved is actually coming from the Whetstone Watershed. The referenced well is too shallow to be tapping into, or diverting water from the main flows of the San Pedro River aquafir itself.
  - b. Diversions to this land have historically included irrigation canals, the detectable artifacts of which date back to the period of the Hohokam Indians, easily predating the arrival of the Spanish Explorers. Therefore, the rights to divert water from surface runoff clearly remain with the ownership of the land.

5. I object to the description of **Uses** for the claimed water rights.

The reason for my objection is as follows: Potential Water Rights should not be limited to irrigation only. The land involved is zoned commercial, and may, in the future, be zoned industrial. Therefore the Potential Water Rights should not be restricted to the current, and historical use, namely agriculture, but should be preserved for future industrial diversions, and for use for stock ponds, resevoirs, fish farming ponds, and the like. I claim the right, for example, to place reservoirs on my land for feeding drip irrigation systems for more efficient use of the available water in the future. This should still permit my continuing rights to diversions for some of the other purposes mentioned above, without necessarily increasing my annual consumption.

6. I object to the description of **Reser voirs** used for the claimed water rights. The reason for my
objection is as follows: I claim the right to place resevoirs on
the land for multiple purposes, some of which are enumerated above,
and some of which are yet to be determined.

ATTACHMENT TO MANDATORY FORM FOR OBJECTIONS

7. I object to the description of Shared Uses & Diversions for the claimed water rights. The reason for my objection is as follows: No description given. I claim the right to share the water pumped from the referenced well with neighbors along the south and west boundries of my immediate property for irrigation, based on historical uses of surface water from the Whetstone Mountain Watershed in the past.

8. I object to the PWR (Potential Water Right) Summary of the claimed water rights. The reason for my objection is as follows: The fact that the aerial photos of 1955 and 1972 showed a particular use should not abrogate rights to use water used historically for other purposes, and other types of crops. In addition, IR002 has been used, and is currently being used for multiple crops, including various vegetables and fruits, and not just "pecans and pastures."

10. I object to the **Explanation** provided for the claimed water rights. As stated above, **IR002** is used for multiple crops including Pecans, Fruit trees, and a variety of vegetables.

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. W1-11-001902

MARICOPA COUNTY
My Comm. Expires March 24, 1995



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

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This objection is directed to Watershed File Report or Zone 2 Well Report No. 112-17-BAD -0 (please insert	
OBJECTOR	INFORMATION
Objector's Address:  Objector's Telephone No:  Objector's Watershed File Report or Zone 2 Well Report River Watershed):	River Project  Office Box 52025  nix, Arizona 85072-2025 ) 236-2210  No. (If the Objector's claimed water rights are within the San Pedro
39-07 <u>01040, 01041</u>	r's claimed water rights are located outside the San Pedro Watershed) , 01206, 01207, 01998 , 50055
STATE OF <u>Arizona</u> COUNTY OF <u>Maricopa</u>	IFICATION (must be completed by objector)
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 14th day of May, 1992, postage prepaid and addressed as follows:  Name: HAGAN, LESTER & W. RUTH  Address: BOX 1378  BENSON, AZ 85602	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 believe them to be true.  Signature of Objector or Objector's Representative
(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.)	SUBSCRIBED AND SWORN to before me this 1st day of  May, 1992.  Notary Public for the State of Afizona  Residing at Maricopa County  My commission expires  Notary Public - State of Arizona

Watershed File Report: 112-17-BAD -007

Vol-Tab-Pg 4-2-139

HAGAN, LESTER & W. RUTH

PAGE: 2

### 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	
	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.

Watershed File Report: 112-17-BAD -007

Vol-Tab-Pg 4-2-139

HAGAN, LESTER & W. RUTH

### ATTACHMENT 1

PAGE: 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

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 minimum 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 Arizona Climate, 1931-1972, 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, 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.

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

### MANDATORY FORM FOR OBJECTIONS TO

No. W111001902

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.

11217BAD 007

(please insert no.)

(please insert no.)

#### OBJECTOR INFORMATION

Objector's Name:

Gila River Indian Community

San Carlos Apache Tribe; Tonto Apache Tribe; Yavapai-Apache Indian Community, Camp Verde Reservation

C/O Cox & Cox

C/O Sparks & Siler, P.C.

Objector's Address:

Objector's Telephone: (602) 254-7207

Suite 300 Luhrs Tower, P.O. Box 4245

7503 First Street Scottsdale, AZ 85251

Phoenix, AZ 85030

(602) 949-1988

Objector's Watershed File Report or Zone 2 Well Report No. (if the Objector's claimed water rights are within the San Pedro River Watershed):

Or Objector's Catalogued Well Number (if the Objector's claimed water rights appear only in Volume 8 of the HSR):

Or Objector's Statement of Claimant No. (if the Objector's claimed water rights are located outside the San Pedro River Watershed):

39-11-05478

39-05-41142

39-07-12652

39-07-12676

39-05-50058

39-07-12169

39-U8-60083

39-L8-36340

39-L8-37360

39-U8-63614

39-07-12675

39-05-50059

### STATE OF ARIZONA

### VERIFICATION (must be completed by objector)

### COUNTY OF MARICOPA

I hereby make this Objection. I certify that, if required, a copy of the foregoing Objection was served upon the following Claimant(s) by mailing true and correct copies thereof on the 4 day of May, 1992, postage prepaid and addressed as follows:

Name:

HAGAN, LESTER & W. RUTH

Address: BOX 1378

BENSON AZ 85602

(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.)

I declare under 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 portions, I believe them to be true.

Signature of Objector or Objector's Representative

SUBSCRIBED AND SWORN to before me this  $\_$  day of

ry Public for the State of Arizona

referial seal JAMES ROBERT RITTERHOUSE Notary Public - State of Arizona MARICOPA COUNTY My Comm. Expires Jan. 5, 1994

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.

	ing are the main categories of the typical Watershed File Report (Zone 2 Well Reports and some Watershedes) to which you object, and state the reason for the objection on the back of this form.	File Reports	lack certain categori	es). Please check th
Calcgo y(	sy to which you object, and state the reason for the objection on the back of this form.		•	. :
- 1. l obj	ect to the description of Land Ownership	· · ·		
< 2. l ob	ect to the description of Applicable Füings and Decrees			
3. lobj	ect to the description of DWR's Analysis of Filings and Decrees			
X 4. lob	ect to the description of Diversions for the claimed water right(s)			
- 5. l obj	ect to the description of Uses for the claimed water right(s)			
- 6. l obj	ect to the description of Reservoirs used for the claimed water right(s)			
·	ect to the description of Shared Uses & Diversions for the claimed water right(s)			
•	ect to the PWR (Potential Water Right) Summary of the claimed water right(s)			
	ect to the description of Quantities of Use for the claimed water right(s)			
- 10. l ob	ect to the Explanation provided for the unclaimed water right(s)			
- 11. Olh	er Objections (please state volume, page and line number for each objection)			_
	REASON FOR OBJECTION			
	n for my objection is as follows (please number your objections to correspond to the boxes checked above; plea ary. The following objection(s) are based upon information and belief:	ase attached s	upporting information	n and additional page:
CATEGO				
4	The use of the water claimed depletes water for senior federal and Indian water rights (1150).			
2	HSR does not show a well registration filing (420).			
9	HSR does not show a claimed water use rate (1000).			

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

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. 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.

This objection is directed to Watershed File Report or Zone 2 Well Report No.

112-17-BAD-007

or Catalogued Well No.

(please insert no.)

(nlease insert no.)

**OBJECTOR INFORMATION** 

Objector's Name:

Co-Objector's Name:

Co-Objector's Name:

United States of America

Gila River Indian Community

San Carlos Apache Tribe; Tonto

c/o Cox & Cox

Apache Tribe; Yavapai-Apache Indian Community; Camp Verde Reservation

Contested Case File: W111001902

c/o Sparks & Siler, P.C.

Objector's Address: 601 Pennsylvania Ave. Washington, D.C. 20004 Co-Objector's Address: Suite 300 Luhrs Tower Phoenix, AZ 85003

7503 First Street Scottsdale, AZ 85251 Co-Objector's Telephone No.:

Co-Objector's Address:

Objector's Telephone No.: (202) 272-4059 / 272-6978 Co-Objector's Telephone No.:

(602) 949-1998

(602) 254-7207

Objector's Watershed File Report or Zone 2 Well Report No. (if the Objector's claimed water rights are within the San Pedro River Watershed):

111-19-009

Or Objector's Catalogued Well Number (if the Objector's claimed water rights appear only in Volume 8 of the HSR):

Or Objector's Statement of Claimant No. (if the Objector's claimed water rights are located outside the San Pedro River Watershed):

39-11-05478

39-05-41142

39-07-12652

39-07-12676

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39-07-12169

39-U8-60083

39-L8-36340

39-L8-37360

39-U8-63614

39-07-12675

39-05-50059

### STATE OF ARIZONA

### COUNTY OF MARICOPA

I hereby make this Objection. I certify that, if required, a copy of the foregoing Objection was served upon the following Claimant(s) by mailing true and correct copies thereof on the 18th day of May, 1992, postage prepaid and addressed as follows:

112-17-BAD-007

Name:

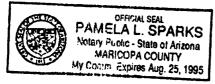
HAGAN, LESTER & W. RUTH

ET AL.

Address: BOX 1378

**BENSON AZ 85602** 

(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 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 portions, I helieve them to be true

Signature of Co-Objector or Co-Objector's Repre sentative

ctor's Representative

AND SWORN to before me this 7 day of May, 1992.

WFR No.: 112-17-BAD-007 Contested Case File: W111001902

Page 2

#### 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.

I object to the description of Land Ownership. [XX] 2. I object to the description of Applicable Filings and Decrees. [XX] 3. I object to the description of DWR's Analysis of Filings and Decrees. 4. I object to the description of Diversions for the claimed water right(s). 1 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). [XX] 8. I object to the PWR (Potential Water Right) Summary of the claimed water right(s). [XX] 9. I object to the description of Quantities of Use for the claimed water right(s). 1 1 10. I object to the Explanation provided for the claimed water right(s).

#### **REASON FOR OBJECTION**

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

1

11.

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):

- 2. The individual associated with this Watershed File Report failed to file an adjudication claim as required. Therefore, the individual has no legal standing in this adjudication. (SM 475) (IR001; IR002)
  - The use of water listed under this Watershed File Report is challenged because it interferes with downstream federal reserved rights and is contrary to state and federal law. (SM 560)
- 3. The individual associated with this Watershed File Report failed to file an adjudication claim as required. Therefore, the individual has no legal standing in this adjudication. (SM 475) (IR001; IR002)
- 8. The individual associated with this Watershed File Report failed to file an adjudication claim as required. Therefore, the individual has no legal standing in this adjudication. (SM 475) (IR001; IR002)
  - The use of water listed under this Watershed File Report is challenged because it interferes with downstream federal reserved rights and is contrary to state and federal law. (SM 560)
  - The legal description for the place of use of a potential water right listed by ADWR is not fully supported by applicable filings. (SM 720) (IR001000; IR001001; IR002000)
- The regional acreage is greater than the maximum observed acreage. The maximum observed acreage should be used to calculate the regional volume of use. (SM 1010)
  - ADWR uses a methodology that overestimates crop water requirements. (SM 1020)