RECEIVED MAY 1 1 1992

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

No. W1,W2,W3 & W4 W1-11-003115

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

114 - 04 - BAC - 003

(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

Oulle 200

Tucson, Arizona 85704

(602) 356-7811

Objector's Telephone No.: (6)

(602) 575-5600

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

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

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):

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

GEGAX, EDWARD H.

and

&& BETTIE H.

Address

STAR ROUTE BOX 3762

WINKELMAN, AZ 85292

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 believe them to be true.

Signature of Misjector's Representative (Magma)

Signature of Objector's Representative (ASARCO)
SUBSCRIBED AND SWORN to before me this 11t

of May 1998.

OFFICIAL SEAL

MARIANNE DUNCAN SHIPPEE

Notary Public - State of Arizona

MARICOPA COUNTY

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	s).	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
0	2.	I object to the description of Applicable Filings and Decrees
0	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)
0	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)
ko k	8.	I object to the PWR (Potential Water Right) Summary of the claimed water right(s)
0	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)
₩.	11	Other Chiections (nieses state volume, name and line number for each chiection)

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 W1-11-003115

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

114 - 04 - BAC - 003 (please insert no.)

(please insert no.)

or Catalogued Well 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

(602) 356-7811

Objector's Telephone No.:

(602) 575-5600

* 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

GEGAX, EDWARD H.

and

&& BETTIE H.

Address STAR ROUTE BOX 3762 WINKELMAN, AZ 85292

(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 othe 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 ve them to be true. portions, Lbelj

Objector's Regresentative (ASAR SUBSCRIBED AND SWORN to before me this

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

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

WFR No.: 114-04-BAC-003 Contested Case File: W111003115

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.

- $[V_i]$ 1. I object to the description of Land Ownership.
- [XX] 2. I object to the description of Applicable Filings and Decrees.
- [X] 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).
- [\times] 5. I object to the description of Uses for the claimed water right(s).
- [1 6. I object to the description of Reservoirs used for the claimed water right(s).
- [χ] 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).
- [X] 10. Lobject to the Explanation provided for the claimed 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 attach supporting information and additional pages as necessary):

- 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)
 - One or more of the POD legal descriptions listed in the WFR is too general. (SM 623) (3900108510000)
- 8. 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)

One or more of the POD legal descriptions listed in the WFR is too general. (SM 623) (3900108510000)

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) (DM001000; DM001001; IR001000; IR001001; IR002000)

The maximum observed volume is less than both the regional and claimed volume of use for this PWR. A claimant is not entitled to more water than has been put to beneficial use. (SM 1000)

- 9. The maximum observed volume is less than both the regional and claimed volume of use for this PWR. A claimant is not entitled to more water than has been put to beneficial use. (SM 1000)
 - ADWR uses a methodology that over-estimates crop water requirements. (SM 1020)

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

MANDATORY FORM FOR OBJECTIONS TO

No. W111003115

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.

11404BAC 003

(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 Sparks & Siler, P.C.

Objector's Address:

Suite 300 Luhrs Tower, P.O. Box 4245

7503 First Street

Phoenix, AZ 85030

C/O Cox & Cox

Scottsdale, AZ 85251

Objector's Telephone: (602) 254-7207

(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

Name:

GEGAX, EDWARD H.

Address:

STAR ROUTE BOX 3762

WINKELMAN AZ 85292

(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 $\underline{\pmb{6}}$ day of

May 1992.

Notary Public for the State of Asi

OFFICIAL 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.

STATEMENT OF THE OBJECTION

The follo	wing 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 second of the control of
- 1. l ol	oject to the description of Land Ownership
X 2. Io	bject to the description of Applicable Filings and Decrees
- 3. l ot	oject to the description of DWR's Analysis of Filings and Decrees
X 4. Io	bject to the description of Diversions for the claimed water right(s)
- 5. l ot	oject to the description of Uses for the claimed water right(s)
- 6. lot	oject to the description of Reservoirs used for the claimed water right(s)
- 7. lot	oject to the description of Shared Uses & Diversions for the claimed water right(s)
- 8. lob	eject to the PWR (Potential Water Right) Summary of the claimed water right(s)
X 9. lo	bject to the description of Quantities of Use for the claimed water right(s)
- 10. lo	bject to the Explanation provided for the unclaimed water right(s)
- 11. Oli	her Objections (please state volume, page and line number for each objection)
	REASON FOR OBJECTION
The reason	on for my objection is as follows (please number your objections to correspond to the boxes checked above; please attached supporting information and additional page
	sary. The following objection(s) are based upon information and belief:
CATE GO NUMBEI	
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

No. W1, W2, W3 & W4 Contested Case No. W1-11-003115



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. 114-04-BAC - (please insert	
OBJECTOR	R INFORMATION
Objector's Name:Salt	t River Project
	t Office Box 52025
	enix, Arizona 85072-2025
Objector's Telephone No:(602	
Objector's Watershed File Report or Zone 2 Well Report River Watershed):	No. (If the Objector's claimed water rights are within the San Pedro
Or Objector's Catalogued Well Number (if the Objector's	s claimed water rights appear only in Volume 8 of the HSR):
39-07 <u>01040, 01041</u> 39-05 <u>50053, 50054</u>	
39-L8 <u>35212, 35213</u>	3
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: GEGAX, EDWARD H. Address: STAR ROUTE BOX 3762 WINKELMAN, AZ 85292	RIFICATION (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 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 Artizona Residing at Maricopa County OFFICIAL SEAL LINDA JEPPERSON

My commission expires

MARICOPA COUNTY
My Comm. Expires March 24, 1995

Watershed File Report: 114-04-BAC -003 Vol-Tab-Pg 6-2-051 GEGAX, EDWARD H.

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.

		REASON FOR OBJECTION reason for my objection is as follows (please number your objections to correspond to the boxes checked above; ase attach supporting information and additional pages as necessary):
[]	11.	Other Objections (please state volume number, page number and line number for each objection)
[]	10.	I object to the EXPLANATION provided for the claimed water right(s)
[X]	9.	I object to the description of the QUANTITIES OF USE for the claimed water right(s)
[]	8.	I object to the PWR (POTENTIAL WATER RIGHT) SUMMARY of the claimed water right(s)
[]	7.	I object to the description of SHARED USES & DIVERSIONS for the claimed water right(s)
[]	6.	I object to the description of RESERVOIRS used for the claimed water right(s)
[]	5.	I object to the description of the USES for the claimed water right(s)
[]	4.	I object to the description of the DIVERSIONS for the claimed water right(s)
[]	3.	I object to the description of DWR's ANALYSIS OF FILINGS AND DECREES
[]	2.	I object to the description of APPLICABLE FILINGS AND DECREES
[]	1.	I object to the description of LAND OWNERSHIP

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: 114-04-BAC -003 PAGE: 1 Vol-Tab-Pg 6-2-051

GEGAX, EDWARD H.

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

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). 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 average effective precipitation is subtracted from crop consumptive use when DWR calculates the irrigation requirement. 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 kcl 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 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.

114-04-BAC-003

or Catalogued Well No.

(please insert no.)

(please insert no.)

OBJECTOR INFORMATION

Objector's Name:

United States of America

Co-Objector's Name:

Gila River Indian Community

c/o Cox & Cox

Co-Objector's Name:

San Carlos Apache Tribe; Tonto Apache Tribe; Yavapai-Apache Indian

Contested Case File: W111003115

Community; Camp Verde Reservation

c/o Sparks & Siler, P.C.

Objector's Address:

601 Pennsylvania Ave.

Washington, D.C. 20004

Objector's Telephone No.: (202) 272-4059 / 272-6978 Co-Objector's Address: Suite 300 Luhrs Tower

Phoenix, AZ 85003

Co-Objector's Telephone No.:

Co-Objector's Address: 7503 First Street

Scottsdale, AZ 85251

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

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 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:

114-04-BAC-003

Name: GEGAX, EDWARD H.

& BETTIE H.

Address:

STAR ROUTE BOX 3762 WINKELMAN AZ 85292

(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 1

OFFICIAL SEAL PAMELA L. SPARKS Notary Punic - State of Arizona MARICOPA COUNTY My Comm Expires Aug. 25, 1995

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 believe them to be true

Signature of Objector or Objector's Representative

ctor or Co-Objector's Representative Signature of Co-Ob

Co Objector's Representative

me this ___ day of May, 1992.

WFR No.: 114-04-BAC-003 Contested Case File: W111003115

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. I object to the description of Applicable Filings and Decrees. [XX] 2. I object to the description of DWR's Analysis of Filings and Decrees. 1 3. I object to the description of Diversions for the claimed water right(s). 4. I object to the description of Uses for the claimed water right(s). 1 1 5. I object to the description of Reservoirs used for the claimed water right(s). [] 6. I object to the description of Shared Uses & Diversions for the claimed water right(s). 7. I object to the PWR (Potential Water Right) Summary of the claimed water right(s). [XX] 8. I object to the description of Quantities of Use for the claimed water right(s). [XX] 9. I object to the Explanation provided for the claimed water right(s). 10. Other Objections (please state volume, page and line number for each objection). 1 11.

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):

- 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)
 - One or more of the POD legal descriptions listed in the WFR is too general. (SM 623) (3900108510000)
- 8. 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)
 - One or more of the POD legal descriptions listed in the WFR is too general. (SM 623) (3900108510000)
 - 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) (DM001000; DM001001; IR001000; IR001001; IR002000)
 - The maximum observed volume is less than both the regional and claimed volume of use for this PWR. A claimant is not entitled to more water than has been put to beneficial use. (SM 1000)
- 9. The maximum observed volume is less than both the regional and claimed volume of use for this PWR. A claimant is not entitled to more water than has been put to beneficial use. (SM 1000)
 - ADWR uses a methodology that over-estimates crop water requirements. (SM 1020)