



WATER-RIGHT DOCKET

Coronado National Memorial

Docket No: 14

FEDERAL RESERVED WATER RIGHTS.

Preliminary Docket Information

05-07-2003: Water Rights Summary including well withdrawals

WATER RIGHTS SUMMARY - Coronado National Memorial
Compiled by William R. Hansen on April 2, 2002; Modified by Alberti April 5, 2002; Modified by Hansen Dec. 20, 2002 and May 7, 2003 (Yellow indicates claims to be withdrawn)
This Summary was done to evaluate water right use and claims as part of ongoing settlement discussions in the San Pedro River Adjudication and replaces previous evaluations and summaries that may be found in CORO dockets.

Doc No.	WaterSource/Name	San Pedro SOC No.	Date SOC Filed	State Reg. No.	USGS 1/4, 1/4, 1/4	Legal Location 1/4, 1/4, 1/4, Sec, T, and R	Type of Right	Comp. Date	Res/Asq Date	Well Depth	Case Dia	DTW	Pump GPM	Use
01	Brown Allee Spring	39-11130	1/4/82	36-11163	AAD	SENENE 7 (24S21E)	Federal	1880	11/10/78	--	--	--	--	S. WL
02	Joe's Spring #3	39-11129A	1/4/82	36-11205	AAD	SENENE 12 (24S20E)	Federal	1880	11/10/78	--	--	--	--	S. WL
03	Tunnel Mine Spring	39-11129B	1/4/82	35-87251	DBD	SENENE 11 (24S20E)	State	12/14/81	3/26/80	--	--	--	--	S. WL
04	Baunkirchner Well #2	39-11130E	1/4/82	35-629138	BCB	NWSWNE 17 (24S21E)	State	1943	3/20/80	86	6	56	35	P. WL F
05	Baunkirchner Well #3	39-11130F	1/4/82	35-629137	BCB	NWSWNE 17 (24S21E)	State	1932	3/20/80	124	6	52	35	P. WL F
06	Brown Allee Well (aka Coronado #4)	39-11130B	1/4/82	35-642742	CDB	NWSWNE 8 (24S21E)	Federal	1946	11/10/78	115	6	85	4	P. S. WL F
07	Border Well	39-11130C	1/4/82	35-633159	CDD	SENENE 17 (24S21E)	Federal	7/5/75	11/5/52	758	10	624	30	No Use P. WL F
08	Forest Service Well	39-11130H	1/4/82	35-629141	ACB	SENENE 18 (24S21E)	Federal	?	9/2/60	140.6	5	43.4	--	Collaps Dry
09	Hazel Well	39-008265	12/29/81	35-642701	BAD	SENENE 11 (24S20E)	State	?	11/10/78	0	0	0	0	W/draw
10	Headquarters Well	39-11130G	1/4/82	35-633136	BCC	SWSWNE 18 (24S21E)	Federal	5/6/59	9/2/60	98	8	44	35	P. WL F
11	Sparks Well #1	39-1113056	4/5/89	35-629638	BBC	SWNWNW 13 (24S20E)	State	11/1941	1941	28	5 R	14	15	P. WL F
12	Sparks Well #2	39-1113057	4/5/89	35-629639	BBC	SWNWNW 13 (24S20E)	State	1890	1890	365	6 R	80	0	W/draw
13	Zaleski Well	39-11130D	1/4/82	No 55 Form	BCB	NWSWNE 17 (24S21E)	State	?	3/20/80	?	?	?	?	W/draw
14	Federal Reserved Water Rights	39-11129	1/4/82	See Docket Summary		Park Wide	Federal	--	Many	--	--	--	--	10 AF Adm Use
15	Montez Ranch Pond	39-004344	6/13/80	38-0064702	ACB	NWSWNE 17 (24S21E)	State	2/28/77	2/298**	320	6	147	25	P. WL F
16	Montez Ranch Well SX5	39-004343A	6/13/80	35-649476	ACB	NWSWNE 17 (24S21E)	State	10/20/75	2/298**	300	6	150	7	P. WL F
17	Montez Ranch Well ACB1	39-004343B	6/13/80	35-084460	ACB	NWSWNE 17 (24S21E)	State	6/16/80	2/298**	300	3	150	6	P. WL F
18	Montez Ranch Well SX6	39-004343C	6/13/80	35-649477	ACB	NWSWNE 17 (24S21E)	State	6/30/80	2/298**	300	6	160	25	Dry - W/draw
19	Montez Ranch Well ADC1	39-004343	6/13/80	35-649479	ADC	SWSWNE 17 (24S21E)	State	6/30/80	2/298**	320	6	160	25	Dry - W/draw
20	Montez Ranch Well X1	39-004343	6/13/80	35-649478	ACB	NWSWNE 17 (24S21E)	State	6/30/80	2/298**	300	6	150	6	P. WL F
21	Montez Ranch Well SX3	39-004343D	6/13/80	35-507449	ACB	NWSWNE 17 (24S21E)	State	10/16/84	2/298**	320	6	235	15	P. WL F
22	Montez Ranch Well SX1	39-004343E	6/13/80	35-507448	ACB	NWSWNE 17 (24S21E)	State	10/18/84	2/298**	300	6	216	8	P. WL F
23	Montez Ranch Well ACB2	39-004343F	6/13/80	35-507450	ACB	NWSWNE 17 (24S21E)	State	10/23/84	2/298**	340	6	215	12	P. WL F
24	Montez Ranch Well X2	39-004343G	6/13/80	35-509098	ACB	NWSWNE 17 (24S21E)	State	10/31/84	2/298**	320	6	235	35	P. WL F
25	Montez Ranch Well X3	39-004343H	6/13/80	35-509097	ACB	NWSWNE 17 (24S21E)	State	11/6/84	2/298**	340	6	250	--	P. WL F
26	Montez Ranch Well ABC1	39-004343I	6/13/80	35-509096	ABC	SWNWNW 17 (24S21E)	State	11/9/84	2/298**	310	6	235	25	P. WL F
27	Montez Ranch Well ACA2	39-004343J	6/13/80	35-509095	ACA	NESWNE 17 (24S21E)	State	2/28/85	2/298**	340	6	250	30	P. WL F
28	Montez Ranch Well ACA3	39-004343K	6/13/80	35-510144	ACA	NESWNE 17 (24S21E)	State	3/27/85	2/298**	340	6	246	--	P. WL F
29	Montez Ranch Well ACA1	39-004343L	6/13/80	35-510143	ACA	NESWNE 17 (24S21E)	State	3/28/85	2/298**	340	6	250	--	P. WL F
30	Montez Ranch Well ACA4	39-004343M	6/13/80	35-510145	ACA	NESWNE 17 (24S21E)	State	4/2/85	2/298**	340	8	250	--	P. WL F

** - Assumes wells on Tract 101-41; SOC - Statement of Claimant; State Registration No - 33, 36 and 38 forms for surface waters, 55 forms for well registration, T-Township; R-Range. Type of Right & Priority Date - Determined by land ownership & date of reservation or purchase; P - Park Administration; S-Stockwater; WL-Wildlife; and F - Fire Suppression.

Notes to File and Action Items

Docket 0001 - SOC 39-8208 w/drawn by Order dated June 2, 1995 - duplicate claim by FS.
Docket 0002 - SOC 39-8152 w/drawn by Order dated June 2, 1995 - duplicate claim by FS. Assign 36-11205 to NPS from FS.
Docket 0003 - Change legal from DBC - SWNWNW to DBD - SENWSE per Alberti email dated Feb 26, 2003.

Dockets 4 and 5 - Well registrations 55-633157 and 55-633158 were withdrawn on June 8, 1995 (letter to ADWR) because they were duplicate registrations filed by CORO and the Western Region. Remove stock as a beneficial use on 39-11130 E and F. 39-003608 was withdrawn by the Baumkirchner's on July 1, 1995. Amend NPS SOC 39-11130F (Baumkirchner #3) completion date to 1932 (from 1969).

Docket 0006 - Withdraw 55-642742. Duplicate registration from NPS and FS. SOC 39-8264 withdrawn by Order dated June 2, 1995. Assign 36-11163 to NPS from FS.

Docket 0007 - Withdraw 55-633159 for Coronado Well #4. Duplicate registration filed by CORO and Western Region.

Docket 0008 - Withdraw SOC 39-1130H per instructions from Alberti on Sept. 27, 200 - well collapsed and dry at 21 ft. Incorrect legal - no need to amend because withdrawing claim.

Docket 0009 - Withdraw SOC 39-8265 per instructions from Alberti on Jan 29, 2002 - well never found by NPS. Has Lone Mtn. Ranch withdrawn their claim (39-003748)?

Docket 0010 - Withdraw 55-633156. Duplicate registration filed by CORO and Western Region. Change legal to SWSNW (BCC) 18 (24S21E).

Docket 0011 - Assign well registration (55-629658) to NPS. Change legal to NWSWSW 13 (24S20E).

Docket 0012 - Withdraw SOC 39-11-13637 per instructions from Alberti on Jan 29, 2002 - well may have been mine shaft which was plugged before acquisition by NPS.

Docket 0013 - Withdraw SOC 39-11130D. Not found by NPS on May 2, 1995 or Jan 29, 2002. Alberti recommends withdrawal on Jan 29, 2002.

Docket 0014 - Change uses to park administration, stock, wildlife, and fire suppression in docket and amend individual claims as necessary.

Docket 0015 - Amend SOC 39-004344 - change purpose from irrigation and stockwater to wildlife for 1 AFY. Amend maximum capacity from 15 to 1 AFY. Amend 38-64702 - change capacity from 15 to 1 AFY and quantity from 30-40 to 1 AFY.

Docket 0019 - Withdraw 55-649479 - Dry! Amend Richards' SOC 39004343 dropping well from claim.

Docket 0020 - Withdraw 55-649478 - Dry! Amend Richards' SOC 39004343 dropping well from claim.

Amend Richard's SOC 39-004343 for Montezuma Ranch well's (13 wells) and SOC 39-0004344 for the stockpond. Completed by letter to ADWR on December 5, 2002.

Do we withdraw 36 claims on 0001, 0002, 0003 when surface water rights recognized as reserved right? When?

Correct addresses on all claims/registrations.

Lone Mountain Ranch - claims of concern in park (55-612472 and 55-612487).

WATER RIGHTS SUMMARY

State Appropriative and Federal Reserved Rights
 Coronado National Memorial

Compiled by William R. Hansen
 May 5, 1995

Water Source**	Docket No.	Type	Legal Location (1/4, 1/4 Sec., Township, Range)	San Pedro SOC#	Date SOC Filed	Type of Right	Priority Date	State Registration No.	Notes
Brown Allotment Spr.	CORO-0001	Spring	SENEBNE 7 (24S21E)	39-11130	1/4/82	Federal	11/10/78	36-11163	Stock, WL
Joe's Spring #3	CORO-0002	Spring	SENEBNE 12 (24S20E)	39-11129A	1/4/82	Federal	11/10/78	36-11205	Stock, WL
Tunnel Mine Spring	CORO-0003	Spring	SWNWSE 11 (24S20E)	39-11129B	1/4/82	State	3/26/80	33-87251	Stock, WL
Baumkirchner Well #2	CORO-0004	Well	NWSWNW 17 (24S21E)	39-11130	1/4/82	State	3/20/80	55-633157	Not in Use
Baumkirchner Well #3	CORO-0005	Well	NWSWNW 17 (24S21E)	39-11130	1/4/82	State	3/20/80	55-629137	Not in Use
Brown Allotment Well	CORO-0006	Well	NWSESW 8 (24S21E)	39-11130	1/4/82	Federal	11/10/78	55-629140	Windmill
Coronado Well #4	CORO-0007	Well	SESESW 17 (24S21E)	39-11130	1/4/82	Federal	11/5/52	55-629142	Not in Use
Forest Service Well	CORO-0008	Well	NESENW 18 (24S21E)	39-11130	1/4/82	Federal	9/2/60	55-629141	Collapsed
Hazel Well	CORO-0009	Well	SENEWN 11 (24S20E)	39-8265	12/29/81	State	11/10/78	55-642701	Acquired from FS
Headquarters Well	CORO-0010	Well	NWSWNW 18 (24S21E)	39-11130	1/4/82	Federal	9/2/60	55-629139	Main Well
Sparks Well #1	CORO-0011	Well	SWNWNW 13 (24S20E)	39-11-13636	4/3/89	State	1941	55-629658	Not in Use
Sparks Well #2	CORO-0012	Well	SWNWNW 13 (24S20E)	39-11-13637	4/3/89	State	1890	55-629659	Not in Use
Zalek Well	CORO-0013	Well	NWSWNW 17 (24S21E)	39-11130	1/4/82	State	3/20/80	No 55 form	Not Found
Federal Reserved Right	CORO-0014	Springs Wells	Part Wide	39-11129 39-11130	1/4/82	Federal	See Docket Summary	See Docket Summary	6 ac-ft Adm. Uses

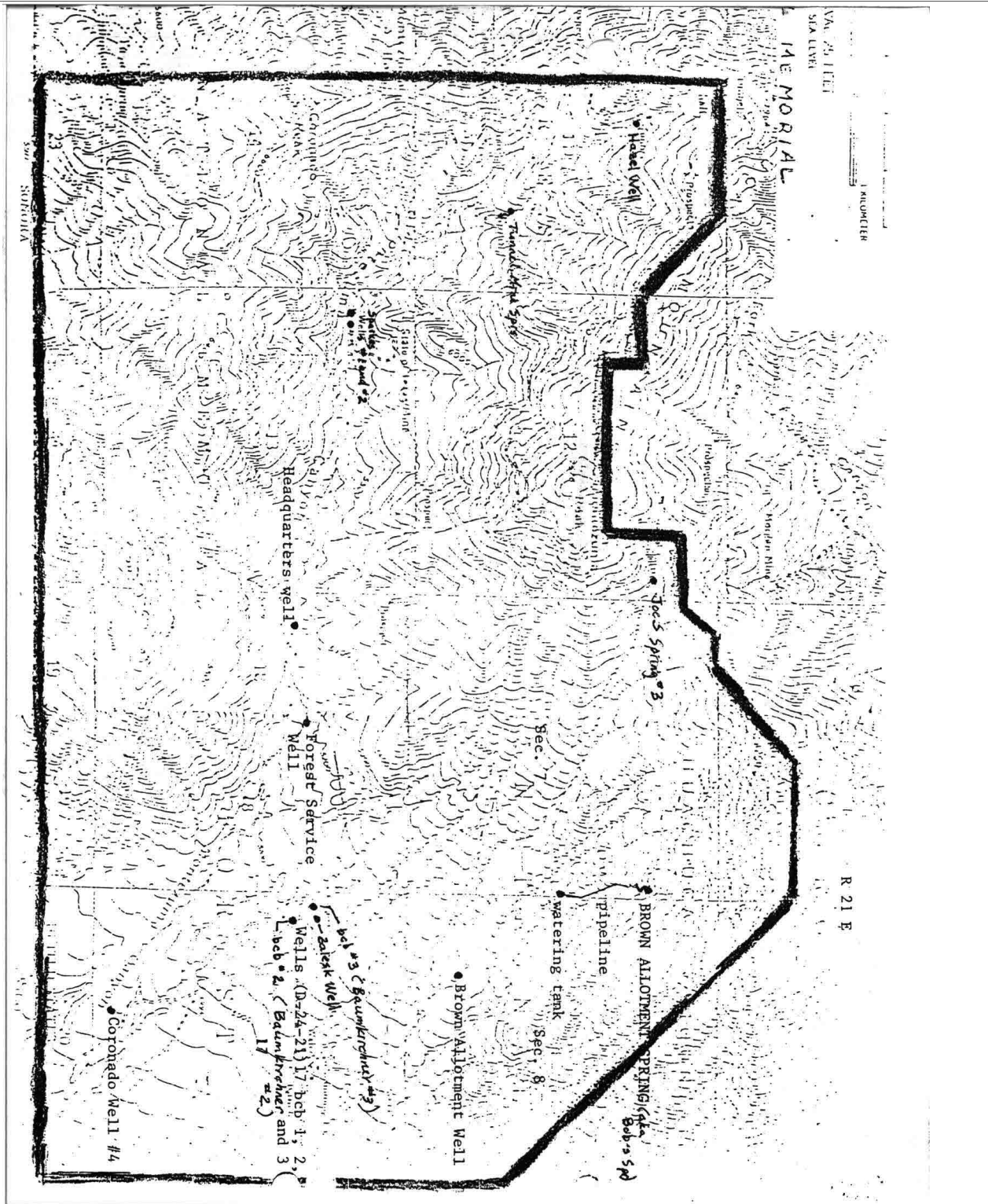
SOC - Statement of Claimant; State Registration No. - 33 and 36 forms for surface waters, 55 forms for well registration.

Type of Right and Priority Date - Determined by land ownership and date of reservation or purchase.

** - See individual dockets for alias names.

Only Springs claimed on the San Pedro River Adjudication. All wells considered percolating wells or Zone 3 wells - not appropriate.

WRM 5/15/95



1 GEORGE A. SCHADE, JR.
Special Master
2 Arizona General Stream Adjudication
Arizona State Courts Building, Suite 228
3 1501 W. Washington Street
Phoenix, AZ 85007
4 (602) 542-9600
State Bar No. 003289
5

6 IN THE SUPERIOR COURT OF THE STATE OF ARIZONA

7 IN AND FOR THE COUNTY OF MARICOPA

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

W-1 (Salt)
W-2 (Verde)
W-3 (Upper Gila)
W-4 (San Pedro)
(Consolidated)

11 **Contested Cases Nos. W1-11-556
and W1-11-1132**

13 ORDER AND PARTIAL DECREE OF
STIPULATED WATER RIGHTS IN THE
14 SAN PEDRO RIVER WATERSHED FOR
THE CORONADO NATIONAL MEMORIAL

15 This matter came before the Court on the Final Hydrographic Survey Report for the San Pedro
16 River Watershed (1991) ("San Pedro HSR") and objections to that report; consideration of the San
17 Pedro HSR and objections were referred to Special Master John E. Thorson and, subsequently, to
18 Special Master George A. Schade, Jr.; the Special Masters organized and conducted proceedings in
19 Contested Cases Nos. W1-11-556 and W1-11-1132 involving the water rights of the United States of
20 America appurtenant to the Coronado National Memorial, a federal reservation of land within the San
21 Pedro River Watershed administered by the United States Department of the Interior, National Park
22 Service; certain parties in both contested cases having reached stipulations that were filed on March
23 19, 1996, and on May 2, 2003, as to the water rights in one stockpond, three springs, and twenty wells,
24 to be decreed for the Coronado National Memorial; Special Master Thorson having accepted the

1 stipulation filed on March 19, 1996, and Special Master Schade having accepted the stipulation filed
2 on May 2, 2003; Special Master Schade having filed a report with the Clerk of the Court on May 15,
3 2003, recommending the approval of both stipulated agreements and abstracts of water rights and
4 having served the involved parties and all persons listed on the Gila River Adjudication Court-
5 Approved Mailing List; the Special Master having given claimants in the Gila River Adjudication,
6 pursuant to A.R.S. § 45-257(A)(2), a period of 180 days, or until November 12, 2003, to file an
7 objection to the report, and until December 8, 2003, to file responses to the objections; the Bella Vista
8 Water Company, Inc. and Pueblo Del Sol Water Company (the "Water Companies") having filed an
9 objection; the United States having filed a response; and the Court having considered the report and
10 the objection and being fully advised;

11 THE COURT FINDS that notice of the Special Master's report was given as required by law
12 and prior orders of this Court; the period allowed for filing objections to the Special Master's report
13 was as required by A.R.S. § 45-257(A)(2); the period for filing objections to the report has passed; and
14 the stipulated agreements and abstracts of proposed water rights for the United States of America
15 within the Coronado National Memorial should be approved.

16 THE COURT ADJUDICATES AND DECREES the water rights of the United States of
17 America for the Coronado National Memorial as set forth in the twenty-four abstracts of water rights
18 stipulated by the parties and described in Special Master Schade's report of May 15, 2003.

19 IT IS ORDERED that the twenty-four abstracts of water rights shall be incorporated in the
20 tabulations or lists of all water rights and their relative priorities on the Gila River system and source
21 in the form that the Court shall determine, pursuant to A.R.S. § 45-257(B)(2), to be most appropriate.

22 IT IS FURTHER ORDERED that the dismissals of Statements of Claimant Nos. 39-8265, 39-
23 11130(D), 39-11130(H), and 39-13637 are accepted.

24 IT IS FURTHER ORDERED overruling the objection of the Water Companies.

1 Dated this 9th day of March, 2004.

2
3
4 /s/ Eddward P. Ballinger, Jr.
5 EDDWARD P. BALLINGER, JR.
6 Judge of the Superior Court

7 A copy of this order is mailed to all parties
8 appearing on the Court-approved mailing
9 list for Contested Cases Nos. W1-11-556
10 and W1-11-1132, dated May 6, 2003, and
11 the Gila River Adjudication Court-
12 Approved Mailing List, Nos. W-1, W-2, W-
13 3, and W-4 (Consolidated), dated October 6,
14 2003.
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24



United States Department of the Interior

NATIONAL PARK SERVICE
Water Resources Division
1201 Oakridge Drive, Suite 250
Fort Collins, Colorado 80525-5596

IN REPLY REFER TO:

July 10, 2002

L54 (2380)
CORO/Water Rights

Ms. Elizabeth Logan, Section Manager
Water Rights and Adjudications Section
Surface Water Management Division
Arizona Department of Water Resources
500 N. Third Street
Phoenix, AZ 85004

Re: Amendment for Claim No. 39-11130

Dear Ms. Logan:

Enclosed is a copy of our amended claim number 39-11130 in the San Pedro River Adjudication. Please date stamp and return a copy of the filed claim to the above address. If you have any questions please contact Bill Hansen, on my staff, at (970) 225-3532.

Sincerely,

Charles Pettee
Chief, Water Rights Branch

Enclosure

Cc: all w/ attachment
Fahmy - SOL
Leninger - DoJ
Alberti - CORO
Callahan - City of Phoenix
Caster - ASARCO, Inc.

Chandley – Phelps Dodge Corp.
Hoffman – BHP Copper Inc.
Lewis – Gila River Indian Community
Ronald – Arizona Department of Water Resources
Schade – Special Master, Arizona General Stream Adjudication
Sparks – Apache Tribes
Weldon – Salt River Project

STATEMENT OF CLAIMANT FORM FOR OTHER USES¹ AMENDMENT SUPERIOR COURT OF MARICOPA COUNTY		<i>For Departmental Use Only</i> File No: 39- Date Filed: WFN 		
1. Claimant Name: <u>US of America, National Park Service, Coronado National Memorial</u> Claimant Address: <u>1201 Oakridge Drive, Ste 250</u> City <u>Fort Collins</u> State: <u>CO</u> Zip Code <u>80525</u> Telephone <u>970-225-3505</u>				
2. Basis of Claim: A. ☐ Appropriation Right acquired prior to June 12, 1919. 1974 Water Rights Registration Act Registry No. _____ B. ☐ Appropriation Right acquired after June 12, 1919. Application No. _____, Permit No. _____, or Certificate of Water Right No. _____ C. ☐ Decreed water right. Principal litigants, court, date and case no. _____ D. ☐ Right to withdraw groundwater. Grandfathered Right No. _____ E. ☒ Other, describe: <u>Federal Reserved Water Right [39-11130]-See Additional</u> Comments				
3. Claimed Priority Date: ____/____/____ (month/day/year)				
4. Use: <table style="width: 100%;"> <tr> <td style="width: 50%;"> A. ☐ Municipal B. ☐ Commercial or Industrial C. ☐ Mining D. ☐ Stockwatering other than from a stockpond </td> <td style="width: 50%;"> E. ☐ Recreation, Fish & Wildlife F. ☐ Other, describe: _____ _____ _____ </td> </tr> </table>			A. ☐ Municipal B. ☐ Commercial or Industrial C. ☐ Mining D. ☐ Stockwatering other than from a stockpond	E. ☐ Recreation, Fish & Wildlife F. ☐ Other, describe: _____ _____ _____
A. ☐ Municipal B. ☐ Commercial or Industrial C. ☐ Mining D. ☐ Stockwatering other than from a stockpond	E. ☐ Recreation, Fish & Wildlife F. ☐ Other, describe: _____ _____ _____			
5. Source of Water: A. ☐ Stream: name _____, tributary to _____ B. ☐ Spring: name _____, tributary to _____ C. ☐ Lake or Reservoir: name _____, tributary to _____ D. ☐ Groundwater.				
6. Legal description of the Point of Diversion: (attach additional sheet if required) ____ 1/4, ____ 1/4, ____ 1/4, Section _____, Township _____ N/S, Range _____ E/W				
7. If there are Irrigation, Domestic or Stockpond Uses also supplied from the Point of Diversion, describe: _____				
8. Means of Diversion: A. ☐ Instream pump. B. ☐ Gravity flow into a ditch, canal or pipeline. C. ☐ Well: Arizona Department of Water Resources Well Registration No. 55-_____ D. ☐ Other, describe: _____				
¹ See Instructions for explanation of uses in this category				

9. Means of Conveyance:

- A. ☐ Ditch, canal or pipeline. If the means of conveyance is owned and/or operated by some other entity, please give name and address: _____
- B. ☐ Other, describe: _____

10. Place of Use, If other than point of diversion: (attach additional sheet if required)

County _____

Legal Subdivision	Section	Township	Range
_____	_____	_____ N/S	_____ E/W
_____	_____	_____ N/S	_____ E/W

11. Claimed Right:

- A. Maximum Flow Rate: _____ ☐ cubic-feet per second
☐ gallons per minute
☐ Arizona miner's inches
- B. Annual Volume of Water Use: 10.0 acre-feet
- C. Storage Right: _____ acre-feet

12. Attach photographs, maps or sketches necessary to show the point of diversion, storage reservoir(s) place(s) of use and means of conveyance.**13. It may be necessary for a representative from the Department of Water Resources to inspect the diversion, conveyance and place of use. Your signature following will grant permission to enter your property for the purpose of inspection: Signature of Claimant** _____**14. Should it be necessary for a representative of the Department to contact you as the claimant or your representative, are there any special instructions regarding time of day or address to aid in locating the specified person?** _____**15. Additional comments:** This amendment changes the quantity of water being claimed for the Federal reserved right at Coronado National Memorial from 6 acre-feet/yr to 10 acre-feet/yr. No other changes are made to the original claim filed on January 4, 1982 or the amendment filed on or about March 28, 1991.

(attach additional sheet if required)

16. Mail form(s) to: Department of Water Resources, Adjudications Division, 15 South 15th Avenue, Phoenix, Arizona 85007.**17. Notarized Statement:**

I (~~We~~), Charles W. Pettee, Chief-Water Rights Branch
 the claimant(s) named in this claim, do hereby certify under penalty of perjury, that the information contained and statements made herein are to the best of my (our) knowledge and belief true, correct and complete.

(seal)
Flora B. Romero, Notary Public
State of Colorado
 My Commission Expires 7/30/2002

Charles W. Pettee

Flora B. Romero

 Notary Public

or, _____
 Authorized Personnel of the Department of Water Resources



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
Water Resources Division
1201 Oak Ridge Drive, Suite 250
Fort Collins, Colorado 80525-5596

May 26, 1995

L54 (479)
CORO/Water Rights

Memorandum

To: Superintendent, Coronado National Memorial
From: Bill Hansen, Hydrologist
Subject: Water Rights Dockets

Please find attached a summary for State appropriative and Federal reserved water rights and a map displaying water sources at Coronado National Memorial. This summary describes the name, docket number, legal location, statement of claimant number in the San Pedro River adjudication, priority date, and other miscellaneous information. The information is based upon our discussions on May 2, 1995, and should memorialize the water source names and legal locations.

Also attached are a draft letter to the Arizona Department of Water Resources withdrawing the Baumkirchner's Statement of Claimant form and a complete copy of each water right docket stored at the Water Rights Branch in Ft. Collins. If you have any questions regarding this information please contact me at (970) 225-3532.

Bill Hansen

Attachments

cc: SOAR - Davis (w/ copy of water rights summary)
Southwest Cluster - Kunkle (w/o attachments)

May ??, 1995

DRAFT

Mr. Steven Erb
Department of Water Resources
500 North Third Street
Phoenix, Arizona 85004-3903

Re: Withdrawal of Statement of Claimant No. 39-003608

Dear Mr. Erb:

We would like to withdraw Statement of Claimant (SOC) No. 39-003608 filed in the San Pedro River Adjudication. The wells are located on lands sold to the United States, National Park Service (NPS), Coronado National Memorial in 1980. The SOC was never transferred or assigned to the NPS. The NPS has filed a SOC (No. 39-011130) for the wells claimed in 39-003608.

We hope this clarifies any confusion. If you have any questions please contact us at ????

cc: Coronado National Memorial

DRAFT

JAMES J. DUBOIS
GARY B. RANDALL
Attorneys, U. S. Department of Justice
Environmental and Natural Resources Division
General Litigation Section
999 18th Street, Suite 945
Denver, Colorado 80202
(303) 294-1900

Attorneys for the United States of America

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA

IN AND FOR THE COUNTY OF MARICOPA

IN RE: THE GENERAL ADJUDICATION) Civil No. W1-11-2782
ALL RIGHTS TO USE WATER)
IN THE GILA RIVER SYSTEM)
AND SOURCE)

CONTESTED CASE NAME: In Re Saguaro National Monument

HSR INVOLVED: San Pedro River Watershed HSR

DESCRIPTIVE SUMMARY: United States of America's Status
Report regarding water rights claimed for the Saguaro
National Monument.

STATEMENT OF CLAIMANT NUMBERS: United State of America -
39-8184, 39-11131, 39-11132, 39-11133, and 39-11134

PROCEEDING NO.: SP 31

NUMBER OF PAGES: 2

DATE OF FILING: July 31, 1995

Claimant, the United States of America, by and through
its undersigned attorney, and pursuant to the Order of the
Special Master dated July 11, 1995, hereby submits its
Status Report in the above captioned case.

Pursuant to the Special Master's Order, the United
States has provided documents regarding the creation of

1 Saguaro National Monument which the United States believes
2 support the water rights claimed. Comments regarding the
3 draft abstracts and the authorizing documents have been
4 received from some of the Objectors. Based on those
5 comments, the United States has prepared revised draft
6 abstracts, and a proposed stipulation for entry of a decree
7 based on those abstracts. The abstracts and stipulation are
8 in circulation to the Objectors for their review and comment
9 or signature.

10 The United States does not believe that an additional
11 Status Conference in this matter is necessary at this time.
12 However, should the Special Master request one, the United
13 States respectfully requests that it be held by phone.

14 DATED this 31st day of July, 1995.

15 BY 

16 JAMES J. DUBOIS
17 Attorney
18 U.S. Department of Justice
19 Environment and Natural
20 Resources Division
21 999 - 18th Street, Suite 945
22 Denver, Colorado 80202
23 (303) 294-1900

24 ATTORNEYS FOR THE
25 UNITED STATES OF AMERICA
26

CERTIFICATE OF SERVICE

I certify that I mailed, via United States Mail, postage prepaid, a true and correct copy of the foregoing United States' Status Report, Civil No. W1-11-2782, to the following, this 31st day of July, 1995:

Everett & Fred Baumkirchner
4828 Baumkirchner Road
Hereford, AZ 85615

ASARCO, Inc.
c/o Apker, Apker, Haggard & Kurtz
Attn: Burton M. Apker
2111 East Highland Avenue, Suite 230
Phoenix, AZ 85016
(service by FAX)

Clerk of the Superior Court
Maricopa County
Attn: Water Case
3345 West Durango Street
Phoenix, AZ 85009

Department of Water Resources
Litigation Support Section
Adjudications Division
500 North 3rd Street
Phoenix, AZ 85004-3903

Gila River Indian Community & Silas Kisto
c/o Cox & Cox
Attn: Alfred S. Cox
P.O. Box 4245
Phoenix, AZ 85030-4245

Lone Mountain Ranch, Inc.
Patagonia, AZ 85624

Magma Copper Co.
c/o. Snell & Wilmer
Attn: Robert B. Hoffman, Carlos Ronstadt
One Arizona Center
400 East Van Buren
Phoenix, AZ 85004-0001

National Park Service
Attn: William Hansen
1201 Oak Ridge Road, Suite 2560
Fort Collins, CO 80525

Phelps Dodge Corporation
c/o Apker, Apker, Haggard & Kurtz
Attn: Jerry L. Haggard
2111 East Highland Avenue, Suite 230
Phoenix, AZ 85016
(service by FAX)

City of Phoenix
City Attorney's Office
Attn: M. James Callahan
200 West Washington, 13th Floor
Phoenix, AZ 85003-1611

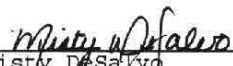
Salt River Project
c/o Jennings, Strouss & Salmon
Attn: John B. Weldon & M. Byron Lewis
Two North Central Avenue, Suite 1600
Phoenix, AZ 85004-2393

San Carlos Apache Tribe, Tonto Apache Tribe, Yavapai
Apache Indian Tribe (Camp Verde Reservation)
c/o Sparks & Siler, P.C.
Attn: Joe P. Sparks, John H. Ryley, Kevin T. Tehan
7503 First Street
Scottsdale, AZ 85251-4573

Special Master
Arizona General Stream Adjudication
John E. Thorson
Arizona State Courts Building
1501 West Washington, Suite 228
Phoenix, AZ 85007

U.S. Department of Justice
Environment & Natural Resources Division
General Litigation Section
Attn: Gary Randall
P.O. Box 663
Washington, D.C. 20044-0663

U.S. Department of Agriculture
Forest Service
Coronado NF
301 West Congress
Tucson, AZ 85701


Misty DeSalvo
Legal Technician

CORD-0014
Reserved Water Rts
Docket

JAMES DUBOIS
GARY E. RANDALL
Attorneys, U. S. Department of Justice
Environmental and Natural Resources Division
General Litigation Section
999 18th Street, Suite 945
Denver, Colorado 80202
(303) 294-1900

Attorneys for the United States of America

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA

IN AND FOR THE COUNTY OF MARICOPA

IN RE: THE GENERAL ADJUDICATION) Civil No. W1-11-556
ALL RIGHTS TO USE WATER)
IN THE GILA RIVER SYSTEM)
AND SOURCE)

CONTESTED CASE NAME: In Re Coronado National Memorial

HSR INVOLVED: San Pedro River Watershed HSR

DESCRIPTIVE SUMMARY: United States of America's Status
Report regarding water rights claimed for the Coronado
National Monument.

STATEMENT OF CLAIMANT NUMBERS: United States of America -
39-8152, 39-8208, 39-8264, 39-8265, 39-11129, 39-11130,
39-13636 and 39-11637

PROCEEDING NO.: SP 31

NUMBER OF PAGES: 16

DATE OF FILING: May 26, 1995

Claimant, the United States of America, by and through
its undersigned attorney, and pursuant to the Order of the
Special Master dated April 5, 1995, as subsequently amended
by Minute Order dated April 24, 1995, hereby submits its
written status report in the above captioned case.

1 Pursuant to the Special Master's Order, the United
2 States has prepared abstracts of the claims of the United
3 States, and circulated them for comment. In addition, the
4 United States has met and conferred with the parties either
5 in person, or by phone. Copies of the abstracts are
6 attached hereto as Appendix A.

7 This case involves several non-federal claims. Claim
8 39-003608 of Fred and Everett Baumkirchner is for a well
9 that was sold, together with the land, to the National Park
10 Service (NPS). The NPS filed claims on the same sources.
11 The United States believes that the Baumkirchners will be
12 withdrawing their claim. The Lone Mountain Ranch filed
13 Claims No. 39-003748, 003755 and 003794 for stockwater.
14 These claims were withdrawn by Motion to Dismiss dated May
15 10, 1995.

16 The remaining claims consolidated in this case are
17 owned by the United States of America. Claim Nos. 39-
18 008152, 39-8208, and 39-008264, filed by the Forest Service,
19 are the same sources as Claim Nos. 39-011129A, 39-011130A
20 and 39-011130B filed by the NPS. The Forest Service claims
21 will be dropped.

22 Of the remaining claims, three are for springs, and the
23 rest are all for groundwater. Groundwater claims are for
24 both Federal Reserved Water Rights and state law based water
25 rights. Objectors Phelps Dodge, Asarco, Magma Copper, the
26 City of Phoenix and Salt River Project all expressed

to these claims as being outside the jurisdiction
adjudication. The issue of the existence of reserved
rights to groundwater was also raised.

The parties are still discussing the abstract
question for the three springs. It is possible that, as
a result of these continuing discussions, the parties may be
able to resolve some of the factual issues. However, the
contested issues as they currently stand are set forth as
follow:

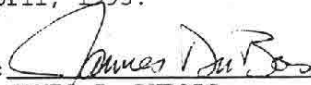
Contested Issues of Law

1. Does this court have jurisdiction in this adjudication to address state law based rights to withdraw groundwater located outside of the currently identified "subflow" zone.
2. Whether a Federal Reserved Water Right extends to groundwater.
3. Whether surface water attributes can be assigned to groundwater rights.
4. The extent to which objections can be raised to "de minimis" water claims under the current statutory framework, and whether that statute applies to these cases.

Contested Issues of Fact or Fact/Law

1. What is the appropriate priority date for each of the claimed water rights.
2. Are the claimed uses for the reserved water rights claims consistent with the authorizing documents for the reservation.
3. What are the appropriate flow rates and volumes for the claimed water rights.
4. What is the correct point of diversion and use for each water right.

1 DATED this 26th day of April, 1995.

2 BY: 

3 JAMES J. DUBOIS
4 Attorney
5 U.S. Department of Justice
6 Environment and Natural
7 Resources Division
8 999 - 18th Street, Suite 945
9 Denver, Colorado 80202
10 (303) 294-1900

11 ATTORNEYS FOR THE
12 UNITED STATES OF AMERICA
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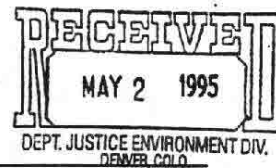
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CERTIFICATE OF SERVICE

I certify that I mailed, via United States Mail, postage prepaid, a true and correct copy of the foregoing United States' Status Report, Civil No. W1-11-556, to the following, this 26th day of May, 1995:

James D. B. L.

Attachment A
Court-Approved Mailing List
W1-11-556 Coronado Nat'l Memorial
(15 names)
Prepared by the Office of the Special Master
April 5, 1995



Everett & Fred Baumkirchner
4828 Baumkirchner Rd.
Hereford AZ 85615

ASARCO, Inc.
c/o Apker, Apker, Haggard & Kurtz
Attn: Burton M. Apker
2111 E. Highland Avenue
Suite 230
Phoenix AZ 85016
Service by FAX

Clerk of the Superior Court
Maricopa County
Attn: Water Case
3345 W. Durango Street
Phoenix AZ 85009

Dep't of Water Resources
Litigation Support Section
Adjudications Division
500 N. 3rd St.
Phoenix AZ 85004-3903

Gila River Indian Community & Silas Kisto
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Attn: Alfred S. Cox
P. O. Box 4245
Phoenix AZ 85030-4245

Lone Mountain Ranch, Inc.
Patagonia AZ 85624

Magma Copper Co.
c/o Snell & Wilmer
Attn: Robert B. Hoffman, Carlos Ronstadt
One Arizona Center
400 East Van Buren
Phoenix AZ 85004-0001

National Park Service
Attn: William Hansen
1201 Oak Ridge Rd.
Suite 250
Ft. Collins CO 80525

Phelps Dodge Corp.
c/o Apker, Apker, Haggard & Kurtz
Attn: Jerry L. Haggard
2111 E. Highland Avenue
Suite 230
Phoenix AZ 85016
Service by FAX

Phoenix, City of
City Attorney's Office
Attn: M. James Callahan
200 W. Washington
13th Floor
Phoenix AZ 85003-1611

Salt River Project
c/o Jennings, Strouss & Salmon
Attn: John B. Weldon & M. Byron Lewis
Two North Central Ave.
Suite 1600
Phoenix AZ 85004-2393

San Carlos Apache Tribe, Tonto Apache Tribe, Yavapai
Apache Indian Tribe (Camp Verde Reservation)
c/o Sparks & Siler, P.C.
Attn: Joe P. Sparks, John H. Ryley, Kevin
T. Tehan
7503 First Street
Scottsdale AZ 85251-4573

Special Master
Arizona General Stream Adjudication
John E. Thorson
Arizona State Courts Building
1501 W. Washington, Suite 228
Phoenix AZ 85007

U.S. Dep't of Justice
General Litigation Section
Attn: Gary Randall
O. Box 663
Washington DC 20044-0663

USA USDA Forest Service
Coronado NF
301 W. Congress
Tucson AZ 85701

CLAIM NUMBER:	39-008265
OWNER:	United States of America
NAME OF STRUCTURE:	Mine Shaft Well
PRIORITY DATE:	11/10/1978
SOURCE:	groundwater
POINT OF DIVERSION:	SENENW 11, T24S R20E
PLACE OF USE:	SENENW 11, T24S R20E
FLOW RATE/VOLUME:	4.0 GPM
BENEFICIAL USE:	Stock/wildlife/fire supression
BASIS OF RIGHT:	Reserved Water Right- Land transferred from Forest Service
REMARKS:	This water right is a reserved water right for all National Park Service purposes, including all present and future uses for stock, wildlife, and Park administrative uses.

CLAIM NUMBER:	39-11129(A) (Same as 008152)
OWNER:	United States of America
NAME OF STRUCTURE:	Joe's Spring #3
PRIORITY DATE:	11/10/1978 (disputed)
SOURCE:	Spring tributary to Montezuma Cyn. Wash
POINT OF DIVERSION:	NE NE 12, T24S R20E
PLACE OF USE:	NE NE 12, T24S R20E
FLOW RATE/VOLUME:	3.0 af (flow rate & vol. disputed)
BENEFICIAL USE:	Stock/wildlife/domestic-Park administration
BASIS OF RIGHT:	Reserved Water Right- Land transferred from Forest Service
REMARKS:	This water right is a reserved water right for all National Park Service purposes, including all present and future uses for stock, wildlife, and Park administrative uses. A total of 6.0 acre-feet of water are claimed for administrative purposes within the National Memorial. Water may be withdrawn for these purposes from any combination of surface or groundwater sources within the Memorial, so long as the cumulative diversions under reserved water rights for administrative purposes do not exceed 6.0 acre-feet.

CLAIM NUMBER:	39-11129(B) (Same as 008152)
OWNER:	United States of America
NAME OF STRUCTURE:	Tunnel Mine Spring
PRIORITY DATE:	03/26/1980
SOURCE:	Spring tributary to Montezuma Cyn. Wash
POINT OF DIVERSION:	NWNE 11, T24S R20E (disputed)
PLACE OF USE:	NWNE 11, T24S R20E
FLOW RATE/VOLUME:	2.0 GPM (disputed volume)
BENEFICIAL USE:	Stock/wildlife/fire suppression
BASIS OF RIGHT:	Appropriated by use (disputed as insufficient)
REMARKS:	Land purchased by NPS

CLAIM NUMBER:	39-11130(A) (Same as 008208)
OWNER:	United States of America
NAME OF STRUCTURE:	Brown Allotment Spring
PRIORITY DATE:	11/10/1978 (disputed)
SOURCE:	Developed spring tributary to Montezuma Cyn. Wash
POINT OF DIVERSION:	NENE 07, T24S R20E
PLACE OF USE:	SENE 07, T24S R20E
FLOW RATE/VOLUME:	3.0 af (flow rate & volume disputed)
BENEFICIAL USE:	Stock/wildlife/domestic-Park administration
BASIS OF RIGHT:	Reserved Water Right- Land transferred from Forest Service
REMARKS:	This water right is a reserved water right for all National Park Service purposes, including all present and future uses for stock, wildlife, and Park administrative uses. A total of 6.0 acre-feet of water are claimed for administrative purposes within the National Memorial. Water may be withdrawn for these purposes from any combination of surface or groundwater sources within the Memorial, so long as the cumulative diversions under reserved water rights for administrative purposes do not exceed 6.0 acre-feet.

CLAIM NUMBER:	39-011130 (B)
OWNER:	United States of America
NAME OF STRUCTURE:	Brown Allotment Well
PRIORITY DATE:	11/10/78 (disputed)
SOURCE:	groundwater-perched aquifer (windmill)
POINT OF DIVERSION:	SESW 08 T24S R21E (unresolved)
PLACE OF USE:	SESW 08 T24S R21E
FLOW RATE/VOLUME:	4.0 GPM (volume disputed)
BENEFICIAL USE:	Stock/wildlife/fire supression
BASIS OF RIGHT:	Reserved Water Right - Land transferred from Forest Service
REMARKS:	This water right is a reserved water right for all National Park Service purposes, including all present and future uses for stock, wildlife, and Park administrative uses.

CLAIM	39-11130 (C)
OWNER	United States of America
NAME	STURE: Coronado #4
PRIOR	E: 09/02/60
SOURCE	percolating groundwater
POINT	VERSION: SESESW 17, T24S R21E
PLACE	SESESW 17, T24S R21E
FLOW RATE/VOLUME:	0.3 af
BENEFICIAL USE:	Stock/wildlife
BASIS OF RIGHT:	Reserved Water Right - Land transferred from Forest Service
REMARKS:	This water right is a reserved water right for all National Park Service purposes, including all present and future uses for stock, wildlife, and Park administrative uses.

CLAIM NUMBER:	39-11130 (D)
OWNER:	United States of America
NAME OF STRUCTURE:	Zalesk Well (D-24-21) 17 bcb 1
PRIORITY DATE:	12/31/1943
SOURCE:	percolating groundwater
POINT OF DIVERSION:	NWSWNW 17, T24S R21E
PLACE OF USE:	NWSWNW 17, T24S R21E
FLOW RATE/VOLUME:	5.0 GPM
BENEFICIAL USE:	Stock/wildlife
BASIS OF RIGHT:	Right to percolating groundwater under state law
REMARKS:	Land purchased by NPS from private ownership.

CLAIM NUMBER:	39-11130(E)
OWNER:	United States of America
NAMING STRUCTURE:	Well (D-24-21)17 bcb 2 (Baumkirchner #2)
PRIORITY DATE:	12/31/1943
SOURCE:	percolating groundwater
POINT OF DIVERSION:	NWSWNW 17, T24S R21E
PLACE OF USE:	NWSWNW 17, T24S R21E
FLOW RATE/VOLUME:	6.0 af
BENEFICIAL USE:	Stock/domestic-Park administration
BASIS OF RIGHT:	Right to percolating groundwater under state law
REMARKS:	This water right was acquired from private ownership. Cumulative diversions from this well and the well described in 39-011130(F) totalled 5.0 acre feet for domestic use in two residences and 1.0 acre foot for stock use. These two wells are supplemental to each other.

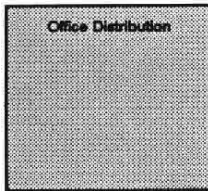
CLAIM NUMBER:	39-011130 (F)
OWNER:	United States of America
NAME OF STRUCTURE:	Well ((D-24-21)17 bcb 3 (Baumkirchner #3)
PRIORITY DATE:	12/31/43
SOURCE:	percolating groundwater
POINT OF DIVERSION:	NWSWNW 17, T24S R21E
PLACE OF USE:	NWSWNW 17, T24S R21E
FLOW RATE/VOLUME:	35.0 GPM/6.0 af
BENEFICIAL USE:	Stock/domestic-Park administration
BASIS OF RIGHT:	Right to percolating groundwater under state law
REMARKS:	This water right was acquired from private ownership. Cumulative diversions from this well and the well described in 39-011130 (E) totalled 5.0 acre feet for domestic use in two residences and 1.0 acre foot for stock use. These two wells are supplemental to each other.

CLAIM NUMBER:	39-11130 (G)
OWNER:	United States of America
NAME OF STRUCTURE:	Headquarters Well
PRIORITY DATE:	08/18/41
SOURCE:	percolating groundwater
POINT OF DIVERSION:	NWSWNW 18, T24S R21E
PLACE OF USE:	NWSWNW 18, T24S R21E
FLOW RATE/VOLUME:	6.0 af
BENEFICIAL USE:	Park Service administration/domestic/commercial
BASIS OF RIGHT:	Reserved Water Right - Land transferred from Forest Service
REMARKS:	This water right is a reserved water right for all National Park Service purposes, including all present and future uses for stock, wildlife, and Park administrative uses. A total of 6.0 acre-feet of water are claimed for administrative purposes within the National Memorial. Water may be withdrawn for these purposes from any combination of surface or groundwater sources within the Memorial, so long as the cumulative diversions under reserved water rights for administrative purposes do not exceed 6.0 acre-feet.

CLAIM NUMBER:	39-11130 (H)
OWNER:	United States of America
NAME OF STRUCTURE:	Forest Service Well
PRIORITY DATE:	09/02/1960
SOURCE:	percolating groundwater
POINT OF DIVERSION:	NESENW 18, T24S R21E
PLACE OF USE:	NWSWNW 17, T24S R21E
FLOW RATE/VOLUME:	6.0 af
BENEFICIAL USE:	Park Service administration/domestic/commercial
BASIS OF RIGHT:	Reserved Water Right - Land transferred from Forest Service
REMARKS:	This water right is a reserved water right for all National Park Service purposes, including all present and future uses for stock, wildlife, and Park administrative uses. A total of 6.0 acre-feet of water are claimed for administrative purposes within the National Memorial. Water may be withdrawn for these purposes from any combination of surface or groundwater sources within the Memorial, so long as the cumulative diversions under reserved water rights for administrative purposes do not exceed 6.0 acre-feet..

CLAIM NUMBER:	39-013636
OWNER:	United States of America
NAME OF STRUCTURE:	Sparks Well #1
PRIOR DATE:	11/30/1941
SOUR	groundwater
POINT OF DIVERSION:	SWNWNW 13, T24S R20E
PLACE OF USE:	SWNWNW 13, T24S R20E
FLOW RATE/VOLUME:	15 GPM
BENEFICIAL USE:	Stock/domestic-Park administration
BASIS OF RIGHT:	Right to percolating groundwater under state law Reg. No. 55-629658
REMARKS:	This water right was acquired from private ownership.

CLAIM NUMBER:	39-013637
OWNER:	United States of America
NAME OF STRUCTURE:	Sparks Well #2
PRIORITY DATE:	12/31/1890
SOURCE:	groundwater
POINT OF DIVERSION:	SWNWNW 13, T24S R20E
PLACE OF USE:	SWNWNW 13, T24S R20E
FLOW RATE/VOLUME:	15.0 GPM
BENEFICIAL USE:	Stock/domestic-Park administration
BASIS OF RIGHT:	Right to percolating groundwater under state law. Reg. No. 55-629659
REMARKS:	This water right was acquired from private ownership.



15
SUPERIOR COURT OF ARIZONA
MARICOPA COUNTY

RECEIVED FILED
JUN 06 '95 JUN 07 '95 3
DIST. CENTER Clerk of the Court
CLERK OF THE COURT

June 2, 1995

THE HONORABLE JOHN E. THORSON
SPECIAL MASTER

L. Frizzell
Deputy

N° W1-11-556

In re the General Adjudication
of All Rights to Use Water in
the Gila River System and
Source

9:50 a.m. This is the time set for Status Conference In re Coronado National Memorial. Present are: Gary B. Randall and James J. DuBois of Denver on behalf of the United States Department of Justice; Cynthia M. Chandley, Kevin M. Moran, and Jeanine Sorrentino on behalf of Phelps Dodge and ASARCO, Inc.; Lisa M. McKnight and Jeff Ehlers, on behalf of the Salt River Project; Charlotte Benson on behalf of the State of Arizona; Thomas Buschatzke and M. James Callahan on behalf of the City of Phoenix; Eric Kamienski on behalf of the City of Tempe; Alfred S. Cox and Edwin Sward on behalf of the Gila River Indian Community and Silas Kisto; and Robert B. Hoffman on behalf of the Magma Copper Company.

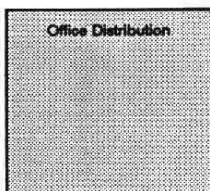
This matter is tape recorded (SP-31).

The Special Master has received a Motion to Dismiss Lone Mountain Ranch From This Contested Case Only and to Dismiss Three Statements of Claimant for Discontinued Uses within The Coronado National Memorial filed by Jennele Morris O'Hair on May 10, 1995. The Special Master has also received a letter from James J. DuBois dated May 17, 1995 and a status report filed May 26, 1995 including an informal motion to dismiss certain forest service claims as set forth in the report.

No objection,

IT IS ORDERED Claims 39-8152, 39-8208, 39-8264 filed by the United States Forest Service are dismissed as being withdrawn.

Upon motion of Ms. O'Hair and there being no responses to that motion filed on May 10, 1995 by Ms O'Hair on behalf of Lone Mountain Ranch;



6
SUPERIOR COURT OF ARIZONA
MARICOPA COUNTY

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JUN 07 '95 3
Clerk of the Court

L CLERK OF THE COURT J

June 2, 1995

THE HONORABLE JOHN E. THORSON
SPECIAL MASTER

L. Frizzell
Deputy

W1-11-556

IN RE THE ADJUDICATION OF:

Continued

IT IS ORDERED that motion is granted, and Lone Mountain Ranch is dismissed as litigants in this case.

IT IS FURTHER ORDERED statements of claimants 39-3794, 39-3755 and 39-3748 are dismissed. A separate order has been signed and is filed herewith.

Mr. DuBois informs the Special Master that he has spoken with Fred and Everett Baumkirchner, and they informed him that they wish to withdraw their claim. However, as to this date, they have not followed through to withdraw their claim. The Baumkirchners are not represented by an attorney.

The parties discuss the issue of groundwater and if the Court has jurisdiction to decide that issue.

Counsel seem to feel that these rights are outside the Court's jurisdiction.

The Special Master leaves the issue of groundwater to counsel to determine if they wish that issue to be included in this proceeding. Counsel are directed to enter a stipulation, if possible, of file an appropriate motion, if necessary.

The Special Master indicates that a legal description in an abstract is incorrect, and he believes it to be Range 21 East. He requests that Mr. DuBois take a look at that and make a correction, if necessary.

Mr. Hoffman states that he believes the claims under the Coronado National Memorial operate the same as the Saguaro National Monument regarding primary purpose and secondary purpose.

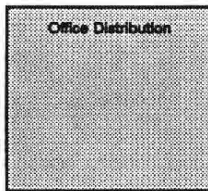
Mr. DuBois agrees to provide documents to all counsel to aid in reaching a stipulation in this matter.

The Special Master requests that Mr. DuBois provide counsel in this case the organic documents regarding water rights,

Docket Number

Continued

Page 6



15
SUPERIOR COURT OF ARIZONA
MARICOPA COUNTY

RECEIVED FILED
JUN 06 '95 JUN 07 '95 3
DIST. CENTER Clerk of the Court
CLERK OF THE COURT

June 2, 1995

THE HONORABLE JOHN E. THORSON
SPECIAL MASTER

L. Frizzell
Deputy

W1-11-556

IN RE THE ADJUDICATION OF:

Continued

by mailing them by June 9, 1995, and provide a status report to the Court by June 30, 1995. If there are outstanding issues that still need to be addressed, the Special Master will set another hearing, if appropriate.

Let the record reflect that Fred and Everett Baumkirchner have not been present at the past two status conferences.

IT IS ORDERED setting an Order to Show Cause as to why Fred and Everett Baumkirchner's claim should not be dismissed. Fred and Everett Baumkirchner shall provide written notification to the Court stating that they do not want their claim dismissed or appear in person at the Order to Show Cause Hearing as will be specified in subsequent order submitted to them by the Court.

10:09 a.m. Hearing concludes.

A copy of this minute entry is sent to all parties on the Court-approved mailing list dated April 5, 1995.

Attachment A
Court-Approved Mailing List
W1-11-556 Coronado Nat'l Memorial
(15 names)
Prepared by the Office of the Special Master
April 5, 1995

Everett & Fred Baumkirchner
4828 Baumkirchner Rd.
Hereford AZ 85615

ASARCO, Inc.
c/o Apker, Apker, Haggard & Kurtz
Attn: Burton M. Apker
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Attn: William Hansen
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Service by FAX

Phoenix, City of
City Attorney's Office
Attn: M. James Callahan
200 W. Washington
13th Floor
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c/o Jennings, Strouss & Salmon
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Suite 1600
Phoenix AZ 85004-2393

San Carlos Apache Tribe, Tonto Apache Tribe, Yavapai
Apache Indian Tribe (Camp Verde Reservation)
c/o Sparks & Siler, P.C.
Attn: Joe P. Sparks, John H. Ryley, Kevin
T. Tehan
7503 First Street
Scottsdale AZ 85251-4573

Special Master
Arizona General Stream Adjudication
John E. Thorson
Arizona State Courts Building
1501 W. Washington, Suite 228
Phoenix AZ 85007

U.S. Dep't of Justice
General Litigation Section
Attn: Gary Randall
P. O. Box 663
Washington DC 20044-0663

USA USDA Forest Service
Coronado NF
301 W. Congress
Tucson AZ 85701



WMC:JJD
90-6-2-47C

U.S. Department of Justice

Environment and Natural Resources Division

*General Litigation Section
Denver Field Office*

*James J. DuBois
Suite 945, North Tower
999 Eighteenth Street
Denver, CO 80202
Telephone: (303) 294-1941
Telecopier: (303) 294-1931*

May 17, 1995

BY FACSIMILE

(Hard copy to follow)

Alfred Cox
Cox & Cox
P.O. Box 4245
Phoenix, AZ 85030-4245
(602) 271-4452

Burton M. Apker
Apker, Apker, Haggard & Kurtz, P. C.
P. O. Box 10280
Phoenix, AZ 85018-6450
(602) 956-3457

Lisa McKnight
Jennings, Strouss & Salmon
Two North Central Avenue
16th Floor
Phoenix, AZ 85004-2393
(602) 253-3255

Joe Sparks
Kevin Tehan
Sparks & Siler, P.C.
7503 First Street
Scottsdale, AZ 85251-4573
(602) 949-1339

Robert B. Hoffman
Carlos Ronstadt
Snell & Wilmer
One Arizona Center
Phoenix, AZ 85004-0001
(602) 382-6070

City of Phoenix
c/o M. James Callahan
200 West Washington, Suite 1300
Phoenix, AZ, 85003-1611
(602) 534-2476

Re: W1-11-556 (Coronado National Memorial)

Dear Colleagues:

At the April 5th, 1995 Scheduling Conference, the Master directed the United States to try to meet with all of the objectors to the above referenced case in order to identify the attributes of the water rights in question and to define the issues which may need court resolution. Pursuant to the revised Order of the Master, the United States is to submit a written report on May 31st.

Counsel of Record
May 17, 1995
Page 2

To facilitate the process, I have been meeting with the Forest Service and Park Service (NPS) to review the claims, and I have also talked with the Baumkirchners, and with Jannelle O'Hare regarding the Lone Mountain Ranch claims. The Baumkirchners claim is for a well that was sold, together with the land, to the NPS. The NPS filed claims on the same sources. I believe that the Baumkirchners will be withdrawing their claim. The Lone Mountain Ranch claims were for stockwater. Grazing was terminated on the subject land by mutual consent in 1988, and Lone Mountain does not intend to pursue these claims. I believe that withdrawals have been filed.

Of the remaining claims, most are for wells. It appears that all are outside the subflow zone as defined by Judge Goodfarb. As matters now stand, the state law based groundwater claims would appear to be outside the adjudication. In addition, virtually all are "de minimis" as that term is currently defined by statute. Moreover, most are for reserved water rights to groundwater. Although the United States believes these are valid reserved water rights, and thus in the adjudication, this issue is still on appeal to the Arizona Supreme Court. I am not sure what issues Master Thorson ultimately will be able to address in this matter. None-the-less, I have prepared abstracts for each of the claims of the United States, with the exception of Forest Service Claim Nos. 39-008152, 39-8208, and 39-008264 which are the same sources as Claim Nos. 39-011129A, 39-011130A and 39-011130B below. The Forest Service claims will be dropped. The Park Service has decided to use the Park Service claim numbers and priorities in decreeing these claims, although some other minor corrections have been made to properly describe the water right.

Please review the attached draft abstracts and let me know what, if any, objections you have to the water rights of the United States as described. If you feel that there are still issues in this case that need to be or can be addressed and resolved, please let me know as soon as possible so that we can attempt to resolve them. If there are issues that go to the entire adjudication process that prevent us from resolving these claims, then I need to note that in the Status Report as well. I will check with each of you by phone next week to follow up on these issues.

If you have any questions, or need any additional information regarding the claimed water rights, please give me a call. I appreciate your attention to this matter.

Very truly yours,



James J. DuBois
Trial Attorney

Counsel of Record
May 17, 1995
Page 3

cc: Robert Moeller
Edward Lopez
Bill Hansen
Court Mailing List

NATIONAL PARK SERVICE
WATER RESOURCES DIVISION
FORT COLLINS, COLORADO
FAX NUMBER: (303) 221-8315
VERIFICATION NUMBER: (303) 221-5341

*Done
leg*

DATE: 2-13-91
FROM NAME: Bill Hansen GROUP: NPS
TO NAME: Bill Swan GROUP: Solicitors Office
CITY, STATE: Phoenix AZ MAIL CODE: _____
OFFICE PHONE: _____
FAX NUMBER: 602 379 4127 VERIFICATION: _____

TOTAL NUMBER OF PAGES (INCLUDING COVER SHEET): 5

SPECIAL INSTRUCTIONS:

Bill-- Here ~~now~~ is a copy of the draft Coronado NM Amended claim
as we discussed on the phone. Please let me know by phone if you
agree w/ the language or propose changes. Thanks.

B. Hansen

Receipt verified by: _____ Date: _____ Time: _____

*Rec'd Swan's
Comments on
3/15/91. chgs made
to application & sent to DWR
the wk. of 3/18/91.
WRH
3/18/91*

5-11-95 12:19

;DEPARTMENT OF JUSTICE-DENVER

3032941930;# 1/ 6



U.S. Department of Justice

Environment and Natural Resources Division

WMC:JJD

REPLY TO:

James J. DuBois
General Litigation Section
Suite 945, North Tower
999 Eighteenth Street
Denver, CO 80202

Telephone: (303) 294-1941
Telecopier: (303) 294-1931

TELEFAX COVER SHEET

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If you have received this communication in error, please notify us immediately by telephone (collect), and return the original message to us at the above address by mail. Any distribution, or copying of this communication, other than by the intended recipient, is strictly prohibited.

Date: May 11, 1995

From: James DuBois

To: BILL HANSEN
NATIONAL PARK SERVICE

Phone: (970) 225-3523

Fax No.: (970) 225-9965

No of pages, including cover sheet: 6

RE: Coronado NM

Bill:

Here is letter with abstracts and description (intentionally limited) of wells. Please give it a look and make sure that I finally have it right. Call me with any changes. Sorry about delay in getting this to you, but my morning went down the tubes shortly after we spoke.

Jim Discussed our comments on
5/12/95. Jim will consider an
abstract for a Fed Res RT,
park-wide, for GAF.

WEH
5/12/95



WMC:JJD
90-6-2-47C

U.S. Department of Justice

Environment and Natural Resources Division

*General Litigation Section
Denver Field Office*

*James J. DuBois
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May 10, 1995

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Scottsdale, AZ 85251-4573

Robert B. Hoffman
Carlos Ronstadt
Snell & Wilmer
One Arizona Center
Phoenix, AZ 85004-0001
(602) 382-6070

City of Phoenix
c/o M. James Callahan
200 West Washington, Suite 1300
Phoenix, AZ, 85003-1611

Re: W1-11-556 (Coronado National Monument)

Dear Colleagues:

At the April 5th, 1995 Scheduling Conference, the Master directed the United States to try to meet with all of the objectors to the above referenced case in order to identify the attributes of the water rights in question and to define the issues which may need court resolution. Pursuant to the revised Order of the Master, the United States is to submit a written report on May 31th.

To facilitate the process, I have been meeting with the Forest Service and Park Service (NPS) to review the claims, and I have also talked with the Baumkirchners, and with Jannelle O'Hare regarding the Lone Mountain Ranch claims. The Baumkirchners claim is for a well

Counsel of Record
May 10, 1995
Page 2

that was sold, together with the land, to the NPS. The NPS filed claims on the same sources. I believe that the Baumkirchners will be withdrawing their claim. The Lone Mountain Ranch claims were for stockwater. Grazing was terminated on the subject land by mutual consent in 1988, and Ms. O'Hare informs me that Lone Mountain does not intend to pursue these claims. It appears that there is not much left in this case. Most of the claims of the United States that are included in this case are wells that are not only outside any of the subflow boundaries, but are also "de minimus", as that term is currently defined by statute. In addition, some represent reserved water rights for groundwater, which of course is on appeal. I therefore think that these claims are outside of the current bounds of the adjudication. If the Master or any of the parties seek to have them included in the adjudication, then these issues may have to await the outcome of the larger issues now before the Arizona Supreme Court.

Specifically, ~~the~~ I believe that the following claims consolidated in this proceeding are wells:

<u>Claim #</u>	<u>Name</u>	<u>Volume</u>	<u>Status</u>
39-003608	Baumkirchner	6.0 af	Claimant to withdraw claim
39-003748	Lone Mountain		Lone Mountain has not used these
39-003755	Lone Mountain		structures in a number of years
39-003794	Lone Mountain		Claimant to withdraw claims
39-008264	Brown Allotment	0.3 af	
39-008265	Mine Shaft Well	0.3 af	
39-011130B	Brown Allotment	0.3 af	Same as 39-008264
39-011130C	Coronado Well #4	unknown	unused at this time
39-011130D	Zalesk Well	5 gpm	
39-011130E	Baumkirchner #2	6 af	#2 & #3 are supplemental to each
39-011130F	Baumkirchner #3	6 af	other and 6 af is total for both
39-011130G	Headquarters	6 gpm	
39-011130H	Forest Service	unknown	backup source for HQ
39-013636	Sparks #1	15 gpm	purchased with land
39-013637	Sparks #2	15 gpm	purchased with land

Removal of the above described wells from this case leaves only five claims for resolution in this proceeding. Of those five, two are Forest Service claims which duplicate Park Service claims on the same sources. Forest Service Claim Nos. 39-008152 and 39-8208 are the same sources as Claim Nos. 39-011129A and 39-011130A below. The Forest Service

Counsel of Record
May 10, 1995
Page 3

claims will be dropped. The Park Service has decided to use the Park Service claim numbers and priorities in decreeing these claims, although some other minor amendments may be necessary to properly describe the water right. I note that all three of the remaining claims are "de minimis" under either the current statute or the Special Master's analysis. Abstracts for the three claims are as follows:

CLAIM NUMBER: 39-11129(A) (Same as 008152)
OWNER: United States of America
NAME OF STRUCTURE: Joe's Spring #3
PRIORITY DATE: 11/10/1978
SOURCE: Spring tributary to San Pedro
POINT OF DIVERSION: NE NE 12, T24S R20E
PLACE OF USE: NE NE 12, T24S R20E
FLOW RATE/VOLUME: 0.20 af
BENEFICIAL USE: Stock/wildlife
BASIS OF RIGHT: Reserved - Land transferred from Forest Service
REMARKS: Reg # 36-11205 (5/25/79)

CLAIM NUMBER: 39-011129(B)
OWNER: United States of America
NAME OF STRUCTURE: Tunnel Mine Spring

Counsel of Record
May 10, 1995
Page 4

PRIORITY DATE: 3/5/80
5/21/80
SOURCE: Spring tributary to Montezuma Cyn. Wash
POINT OF DIVERSION: NWSE 11 24S 20E
PLACE OF USE: NWSE 11 24S 20E
FLOW RATE/VOLUME: 2.0 gpm
BENEFICIAL USE: Wildlife/fire suppression
BASIS OF RIGHT: Appropriated by use.
OTHER REMARKS: Land purchased by NPS

CLAIM NUMBER: 39-011130(A) (same as 8208)
OWNER: United States of America
NAME OF STRUCTURE: Brown Allotment Spring
PRIORITY DATE: 11/10/1978
SOURCE: Developed Spring
POINT OF DIVERSION: NENE 07 T24S R20E
PLACE OF USE: SENE 07 T24S R20E
FLOW RATE/VOLUME: 2 gpm
BENEFICIAL USE: Wildlife/fire suppression
BASIS OF RIGHT: Reserved - Land transferred from Forest Service

Counsel of Record
May 10, 1995
Page 5

The outstanding question is what, if any, objections do each of you have to the water rights of the United States as described in the Abstract drafts set forth above? If you feel that there are still issues in this case that need to be addressed and resolved, please let me know as soon as possible so that we can attempt to resolve them, if possible. If there are issues that go to the entire adjudication process that prevent us from resolving these three claims, then I need to note that in the Status Report as well.

I will appreciate it if I can hear from all of you no later than May 24th. I will be out of the office the week of the 29th, so I must send off the Status Report by the 26th of May.

If you have any questions, or need any additional information regarding the claimed water rights, please give me a call. I appreciate your attention to this matter.

Very truly yours,

James J. DuBois
Trial Attorney

cc: Robert Moeller *Bill Swan*
Edward Lopez
- Bill Hansen *WRB*
Court Mailing List

Add Parks ?

NOTE

Coronado National Memorial
Federal Reserved Water Rights Docket

The attached Amended Statement of Claimant form was prepared after reviewing the Preliminary San Pedro River Adjudication Hydrographic Survey Report and determining that future consumptive and non-consumptive Federal Reserved water rights were not claimed in original National Park Service Claim No. 39-11130. The attached claims were prepared at the request of Ed Lopez, Superintendent, Coronado National Memorial (CORO) to secure and provide water for future administrative uses.

Federal reserved water rights (consumptive and non-consumptive) were not claimed for springs in CORO because many of the springs are located on lands originally proclaimed as the Huachuca National Forest or acquired lands. The springs are primarily used by livestock and wildlife. No connection could be identified between these uses and the CORO enabling legislation. Therefore, only present and future consumptive and non-consumptive administrative uses have been identified and claimed in this Amendment.



William R. Hansen
March 29, 1991

March 19, 1991

L54(479)
CORO/Water Rights

Mr. Christopher Harris-Graham
Adjudications Division
Arizona Department of Water Resources
15 South 15 Avenue
Phoenix, Arizona 85007

Re: Claim No. 39-11130

Dear Mr. Harris-Graham:

Please find enclosed an Amended Statement of Claimant Form for Claim No. 39-11130 for Coronado National Memorial. If you have any questions concerning this amendment please contact Bill Hansen at (303) 493-1441.

Sincerely,

Owen Williams

Owen R. Williams
Chief, Water Rights Branch

cc: CORO - Superintendent
WR - Kolipinski
SOL - Swan
DOJ - Barry

bcc: CORO Federal Reserved Water Rights Docket
San Pedro River Adjudication File

FNP:BHANSEN;jt:(303)493-1441:03/19/91:COROFORM

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

AMENDED STATEMENT OF CLAIMANT

IN THE MATTER OF DETERMINATION OF)
RELATIVE RIGHTS TO THE USE OF)
WATERS OF THE SAN PEDRO RIVER AND)
ITS TRIBUTARY WATERSHED, INC.)
ARAVAIPA CK.)

CLAIM BEING AMENDED
NO. 39- 11130

(Print or type. If more space is required, use explanatory at end of form, or attachment.)

1. Name of Claimant: United States of America, National Park Service, Coronado National Memorial
(Last) (First) (M.I.)
450 Golden Gate Avenue, Box 35063, San Francisco, CA 94102 (415) 556-8660
(Address, City, State, Zip) (Telephone No.)
2. State the nature of the right or use on which claim is based: (indicate, and attach supporting documentation)
 - A. ☐ Right to surface water initiated by beneficial use prior to June 12, 1919. Indicate registry number if previously submitted under Water Rights Registration Act _____.
 - B. ☐ Court Decreed Water Right. Cite Title and Date of Case _____
Cause No. _____ County _____.
 - C. ☐ Application for permit to Appropriate Water filed. Application No. _____
Permit No. _____, Certificate of Water Right No. _____.
 - D. ☐ Claim of Water Right for a Stockpond. Application No. _____.
 - E. ☒ Other. Describe: Federal Reserved Water Right - See Explanatory
3. A. Date of initiation of right: See Explanatory.
(Month/Day/Year)
 B. Date water first used for beneficial purposes: _____
(Month/Day/Year)
4. Purpose, annual amount and annual period of use: See Explanatory.

Purpose	Amount	Month/Day	Month/Day
Irrigation	_____ ac.ft./gallons	From _____	to _____
Domestic	_____ ac.ft./gallons	From _____	to _____
Stockwater	_____ ac.ft./gallons	From _____	to _____
Municipal	_____ ac.ft./gallons	From _____	to _____
Power	_____ ac.ft./gallons	From _____	to _____
Mining	_____ ac.ft./gallons	From _____	to _____
Recreation	_____ ac.ft./gallons	From _____	to _____
Wildlife	_____ ac.ft./gallons	From _____	to _____
Other uses	_____ ac.ft./gallons	From _____	to _____
5. A. (1) If for irrigation purposes, describe places of use: (also indicate on map)

Township (N/S)	Range (E/W)	Section	Legal Subdivision	No. of Acres
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
- (2) If land reclaimed over period of years, indicate schedule and amount of land reclaimed first and each subsequent year(s): _____
- (3) Indicate kind of crops cultivated: _____
Character of soil: _____
- B. If for domestic purposes, number of persons: _____, or families: _____.
- C. If for stockwater purposes, number and kind of stock watered: _____

- D. If for municipal purposes, population to be served, and estimate of future requirements: _____
- E. If for power purposes, describe type of plant and capacity: _____
- F. If for mining purposes, describe purpose of use, location and character of the mine(s) to be served: _____
- G. If for recreational purposes, describe: _____
- H. If for wildlife purposes, including fish, describe: _____
- I. If for other purposes, describe: _____
6. A. Direct source of public water diverted: _____ tributary to _____ on the _____ watershed.
- B. Point of Diversion (indicate on map): _____, Section _____, Township _____ (N/S), Range _____ (E/W), Gila and Salt River Base and Meridian, County _____. Ownership _____.
7. State information on the well which is your source of water supply.
- A. Well registration number: _____
- B. Location of well (indicate on map): _____, Section _____, Township _____ (N/S), Range _____ (E/W), Gila and Salt River Base and Meridian, County _____. Ownership _____.
- C. List the following:
- (1) Date well construction began: _____ (Month/Day/Year); Date well placed in use: _____ (Month/Day/Year).
 - (2) Location (10 acre subdivision) (indicate on map): _____, Section _____, Township _____ (N/S), Range _____ (E/W),
 - (3) Intent to Drill, File No. _____, or Application for Permit No. _____.
 - (4) State whether free flowing or pump: _____. If pump, list type of pump and capacity: _____.
 - (5) Casing depth _____ ft. Total well depth _____ ft. Diameter of casing _____ inches.
 - (6) Depth to water: _____ ft. (Static Level)
 - (7) Annual amount pumped, or otherwise extracted: _____ Ac.Ft./Gallons
 - (8) State purpose of use: _____.
 - (9) Indicate annual period of use: _____ (Month/Day) to _____ (Month/Day).
8. Water storage reservoir and/or diverting works:
- A. Location (indicate on map): _____, Section _____, Township _____ (N/S), Range _____ (E/W), Gila and Salt River Base and Meridian, County _____. Ownership _____.
- A. Name of storage reservoir and/or diverting works (if known): _____.
- C. Maximum capacity: _____ Ac. Ft.
- D. Maximum depth of water: _____ ft.
- E. (1) Year construction began: _____.
- (2) Year construction completed: _____.
- (3) Date water first stored: _____ (Month/Year).
- F. If dam, list following:
- (1) Construction material: _____.
 - (2) Maximum Length: Top _____ ft.; Bottom _____ ft.
 - (3) Maximum Width: Top _____ ft.; Bottom _____ ft.
 - (4) Maximum Height: _____ ft.

- G. If diverting works, describe: _____
9. Distribution works:
- A. (1) Date construction began: _____
(Month/Day/Year)
- (2) Length of ditch or canal to first place of use: _____ ft., total length of ditch or canal: _____ ft.
- (3) Top width: _____ ft.; Bottom width: _____ ft.
- (4) Grade (slope) of ditch: _____
- (5) If ditch or canal owned and/or operated by an association or company or such other entity, list name of association or company or such other entity: _____
- B. If pipeline:
- (1) Type: _____ (i.e., aluminum, steel, etc.)
- (2) Diameter: _____ inches.
- (3) Length of pipeline to first place of use: _____ ft. and total length of pipeline: _____ ft.
- (4) Grade (slope) of pipeline: _____
- C. If other, describe: _____
10. Enlargement(s) of the storage reservoir and/or diverting and/or distributing works.
- A. Date begun: _____
(Month/Day/Year)
- Date completed: _____
(Month/Day/Year)
- B. Describe details of enlargement(s): _____
- C. Dimensions of work as originally constructed and as enlarged: _____

Explanatory

Quantifiable present and future administrative uses (consumptive) are claimed. The United States of America claims the right to divert and use 6 acre-feet per annum (Jan 1. through Dec. 31) from the Headquarters Well (Well Registration No. 55-629139) located in the NW $\frac{1}{4}$, SW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 18, T24S, R21E, G&SRB&M and other surface and ground water sources on reserved lands for picnic areas, visitor centers, concessions and other visitor-use areas; park administration facilities, ranger stations, entrance stations, visitor contact stations, employee residences, and attendant facilities; lawns surrounding park buildings and structures and other public-use areas to offset heavy human impact; and waste water treatment facilities.

Non-quantifiable present and future administrative uses (consumptive) are also claimed. The United States of America claims the right to use non-quantifiable amounts of water for, but not limited to, controlling and suppressing wildfire and structural fires; construction of roads and trails; and revegetation activities necessary to maintain, (or return) watersheds at (or to) their natural condition.

(continued on the next page)

Water necessary for future uses will be developed from any water in, on, under, adjacent,
or otherwise appurtenant to lands described by Presidential Proclamation (34 Stat. 3255)
on November 6, 1906, proclaiming lands as the Huachuca National Forest Preserve,
Proclamation 2995 (66Stat. 510) on November 5, 1951, proclaiming Coronado National
Memorial and amended by Public Land Order 1865 on August 28, 1959, PL 86-689 (74 Stat.
736) on September 2, 1960, and PL 95-625 (92 Stat. 3467) on November 10, 1978, with
priority dates as of the reservation date for the lands where the water is developed.

(if more space is required, attach separate sheet(s))

STATE OF COLORADO)
) SS
County of Larimer)

VERIFICATION

National Park Service , or Owen R. Williams, Chief, Water Rights Branch
(please print Claimant name) (Claimant representative's name)

being first duly sworn, deposes and says: That the claimant or duly authorized representative, possesses the knowledge and the authorization to execute this verification as to the correctness and truthfulness of the matters set forth in the "Statement of Claimant", except as to those matters alleged upon information and belief, and as to those matters believes them to be true and correct.

Claimant signature

Owen R. Williams
Claimant representative signature

Owen R. Williams

Subscribed and sworn to before me this 28th
day of March, 1991.

(SEAL)

Leah Rutz
Notary Public or authorized Employee of the Department of Water Resources

My Commission Expires April 20, 1994
My Commission expires

ARIZONA WATER COMMISSION
CENTRAL SECURITY BUILDING
222 N. Central Ave.
Suite 350
Phoenix, Arizona 85004
602-255-1581

Mar. 26, 1985

STATEMENT OF CLAIMANT

(Leave Blank)

IN THE MATTER OF DETERMINATION OF)
RELATIVE RIGHTS TO THE USE OF)
WATERS OF THE SAN PEDRO RIVER AND ITS)
RIBUTARY WATERSHED, INC. ARAVAIPA CK.)

File No. 39-11129Filed: 1-4-82 at PM M.
(date) (time)

The State Land Department has enclosed with the accompanying Notice this form on which claimant shall present as required, the particulars of his claim of right to the subject waters. All applicable portions must be completed. A separate Statement of claimant must be submitted for each source or point of diversion of public water unless those waters are commingled prior to use. A map published by the United States Geological Survey or a map of equal standard shall be submitted with this Statement showing on the face of the map the particulars of point of diversion, place of use and other pertinent information.

Print or type. If more space is required, use explanatory at end of form, or attachment.)

Name of Claimant: National Park Service, U.S. Government, Department of Interior
(Last) (First) (M.I.)

450 Golden Gate Avenue, Box 36063, San Francisco, CA 94102 (415) 556-8660
(Address, City, State, Zip) (Telephone No.)

State the nature of the right or use on which claim is based: (indicate, and attach supporting documentation)

A. Right to surface water initiated by beneficial use prior to June 12, 1919.
Indicate registry number if previously submitted under Water Rights Registration Act _____.

B. Court Decreed Water Right. Cite Title and Date of Case _____
Cause No. _____ County _____.

C. X Application for Permit to Appropriate Water filed. State Land Department
Application No. _____, Permit No. _____, Certificate of
Water Right No. _____ (see explanatory)

D. Claim of Water Right for a Stockpond. State Land Department Application
No. _____.

E. Other. Describe: Tunnel Mine Spring
(Coronado National Memorial)

A. Date of initiation of right: March 18, 1980 (see explanatory)
(Month/Day/Year)

B. Date water first used for beneficial purposes: March 18, 1980
(Month/Day/Year)

Purpose, annual amount and annual period of use: (see explanatory)

Purpose	Amount	Month/Day	Month/Day
Irrigation	_____ ac.ft./gallons	From _____ to _____	
Domestic	_____ ac.ft./gallons	From _____ to _____	
Stockwater	_____ ac.ft./gallons	From _____ to _____	
Municipal	_____ ac.ft./gallons	From _____ to _____	
Power	_____ ac.ft./gallons	From _____ to _____	
Mining	_____ ac.ft./gallons	From _____ to _____	
Recreation	_____ ac.ft./gallons	From _____ to _____	
Wildlife	<u>X</u> _____ ac.ft./gallons	From <u>Jan. 1</u> to <u>Dec. 31</u>	
Other Uses	<u>X</u> _____ ac.ft./gallons	From <u>Jan. 1</u> to <u>Dec. 31</u>	

A. (1) If for irrigation purposes, describe place of use: (also indicate on map)

Township (N/S) Range (E/W) Section Legal Subdivision No. of Acres.

(2) If land reclaimed over period of years, indicate schedule and amount of land reclaimed first and each subsequent year(s): _____

- A.(3) Indicate kind of crops cultivated: _____
Character of soil: _____
- B. If for domestic purposes, number of persons: _____, or families: _____
- C. If for stockwater purposes, number and kind of stock watered: _____
- D. If for municipal purposes, population to be served, and estimate of future requirements: _____
- E. If for power purposes, describe type of plant and capacity: _____
- F. If for mining purposes, describe purpose of use, location and character of the mine(s) to be served: _____
- G. If for recreational purposes, describe: _____
- H. If for wildlife purposes, including fish, describe: Natural water supply
for indigenous flora and fauna.
- I. If for other purposes, describe: Fire suppression.
5. A. Direct source of public water diverted: spring tributary to Montezuma Cyn. Wash
on the San Pedro R. watershed.
- B. Point of Diversion (indicate on map): NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 11
Township 24 (N/S), Range 20 (E/W), Gila and Salt River Base and
Meridian, County Cochise. Ownership National Park Service
- C. Place of use (indicate on map): NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 11
Township 24 (N/S), Range 20 (E/W), Gila and Salt River Base and
Meridian, County Cochise. Ownership National Park Service
7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: 1 spring (unnamed)
- B. Location of Source (indicate on map): NE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 12
Township 24 (N/S), Range 20 (E/W), Gila and Salt River Base and
Meridian, County Cochise. Ownership National Park Service
- C. If other source is well, list following:
- (1) Date well construction began: _____; Date well placed in
use: _____
(Month/Day/Year) (Month/Day/Year)
- (2) Location (10 acre subdivision) (indicate on map): _____ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$
Section _____, Township _____ (N/S), Range _____ (E/W), Gila and
Salt River Base Meridian, County of _____.
- (3) State Land Department Intent to Drill, File No. _____, or
Application for Permit No. _____.
- (4) State whether free flowing or pump: _____. If pump, list type
of pump and capacity: _____.
- (5) Casing depth _____ ft. Total well depth _____ ft. Diameter of
casing _____ inches.
- (6) Depth to water: _____ ft. (Static Level)
- (7) Annual amount pumped, or otherwise extracted: _____ Ac.Ft./Gallons
- (8) State purpose of use: _____.
- (9) Indicate annual period of use: _____ to _____
(Month/Day) (Month/Day)
3. Water storage reservoir and/or diverting works:
- A. Location (indicate on map): NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 11
Township 24 (N/S), Range 20 (E/W), Gila and Salt River Base and
Meridian, County Cochise. Ownership National Park Service
- B. Name of storage reservoir and/or diverting works (if known): _____
- C. Maximum capacity: _____ Ac.Ft..
- D. Maximum depth of water: _____ ft.

- E. (1) Year construction began: _____
 (2) Year construction completed: _____
 (3) Date water first stored: _____ (Month/Year).
- F. If dam, list following:
 (1) Construction material: _____
 (2) Maximum Length: Top _____ ft.; Bottom _____ ft.
 (3) Maximum Width: Top _____ ft.; Bottom _____ ft.
 (4) Maximum Height: _____ ft.
- G. If diverting works, describe: _____

Distribution works:

- A. If ditch or canal:
 (1) Date construction began: _____
 (Month/Day/Year)
 Date construction completed: _____
 (Month/Day/Year)
 (2) Length of ditch or canal to first place of use: _____ ft., total
 length of ditch or canal: _____ ft.
 (3) Top width: _____ ft.; Bottom width: _____ ft.
 (4) Grade (slope) of ditch: _____
 (5) If ditch or canal owned and/or operated by an association or company or
 such other entity, list name of association or company or such other
 entity: _____
- B. If pipeline:
 (1) Type: steel (i.e., aluminum, steel, etc.)
 (2) Diameter: 1 inches
 (3) Length of pipeline to first place of use: 50 ft. and total length
 of pipeline: 50 ft.
 (4) Grade (slope) of pipeline: _____
- C. If other, describe: pipeline leads to watering tank once used by stock,
but now used only by wildlife

Enlargement(s) of storage reservoir and/or diverting and/or distributing works

- A. Date begun: _____
 (Month/Day/Year)
 Date completed: _____
 (Month/Day/Year)
- B. Describe details of enlargement(s): _____
- C. Dimensions of works as originally constructed and as enlarged: _____

Explanatory

Item 3. This land was authorized for inclusion into Coronado National Memorial
 on November 10, 1978. The property was purchased by the National Park
 Service on March 18, 1980.

Item 4. The National Park Service claims the rights to all water from this source
 for the purposes indicated. The volumetric flow from this source was
 measured at 2.0 gpm on 8/19/80. The estimated annual flow is 2.5×10^4
 gallons. All water from this source originates and terminates within
 (continued on the next page)

the boundaries of Coronado Nat'l Mem. All uses occur on Federal land.

Item 7. The unnamed spring is on land authorized for inclusion into Coronado N.M.

on November 10, 1978, as a part of a land transfer agreement with the

U.S. Forest Service. The land was originally reserved as a part of the

Huachuca Forest Preserve on November 6, 1906. Therefore, a Federal

Reserve Water Right applies to this source.

Item 2. At this time, we are in the process of applying for a permit to appropriate water from this source under Arizona law.

(if more space is required, attach separate sheet(s))

STATE OF ARIZONA

County of _____

SS

VERIFICATION

(please print Claimant-Affiant's name)

(Claimant-Affiant representative's name)

being first duly sworn, deposes and says; That the affiant, or its duly authorized representative, possesses the knowledge and the authorization to execute this verification as to the correctness and truthfulness of the matters set forth in the "Statement of Claimant", except as to those matters alleged upon information and belief, and as to those matters believes them to be true and correct.

For Corporations, Partnerships,
Associations, etc.*

Claimant-affiant signature

Gerard S. Witucki
Claimant-affiant representative's
signature

Claimant-affiant signature

Gerard S. Witucki
Chief, Division of Water Resources

Attest:

Claimant-affiant representative's
signature

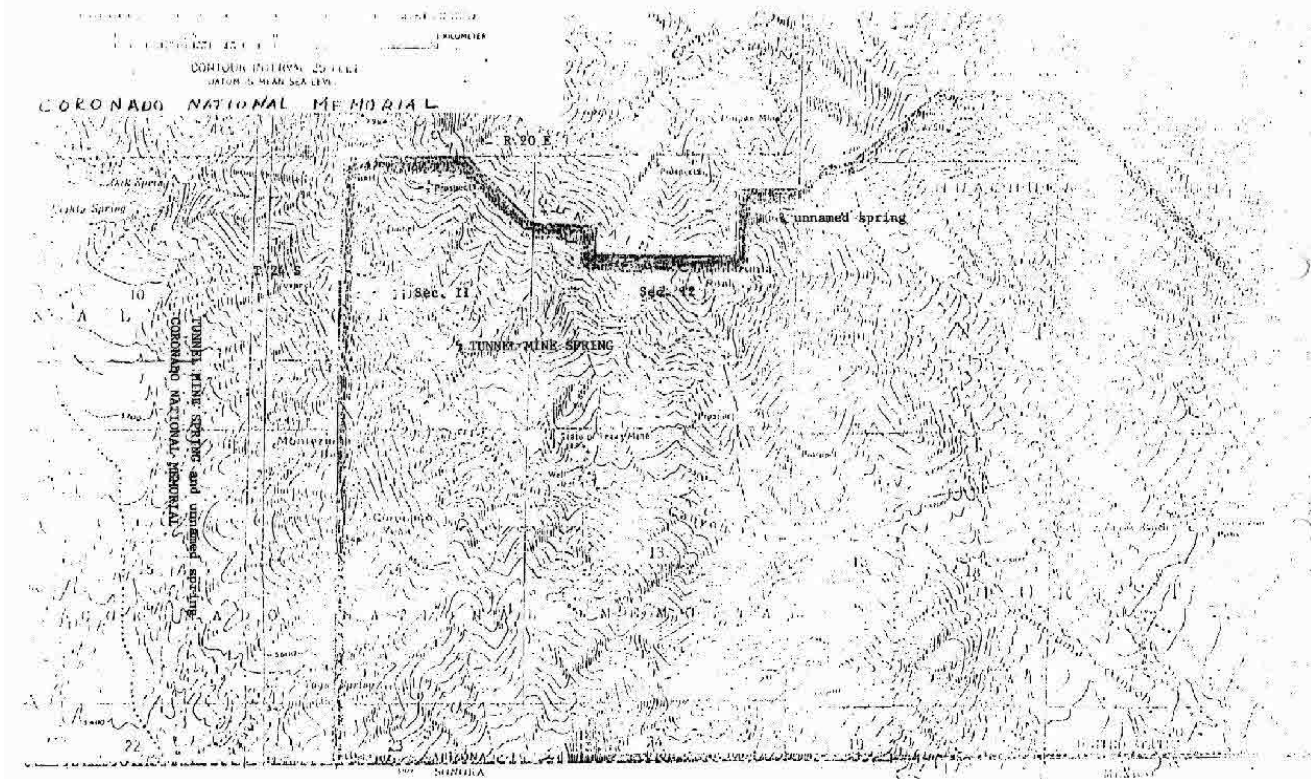
Subscribed and sworn to before me this
30th day of November, 1981.



Mary E. Meredith
Notary Public or authorized Employee of
the Arizona Water Commission

* United States Government
Department of the Interior
National Park Service
Western Regional Office

My Commission expires 3/26/85



ARIZONA WATER COMMISSION
CENTRAL SECURITY BUILDING
222 N. Central Ave.
Suite 550
Phoenix, Arizona 85004
602-255-1581

STATEMENT OF CLAIMANT

(Leave Blank)

IN THE MATTER OF DETERMINATION OF)
RELATIVE RIGHTS TO THE USE OF)
WATERS OF THE SAN PEDRO RIVER AND ITS)
RIBUTARY WATERSHED, INC. ARAVAIPA CK.)

File No. 39-11130
Filed: _____ at _____ M
(date) (time)

The State Land Department has enclosed with the accompanying Notice this form on which claimant shall present as required, the particulars of his claim of right to the subject waters. All applicable portions must be completed. A separate Statement of claimant must be submitted for each source or point of diversion of public water unless those waters are commingled prior to use. A map published by the United States Geological Survey or a map of equal standard shall be submitted with this Statement showing on the face of the map the particulars of point of diversion, place of use and other pertinent information.

Print or type. If more space is required, use explanatory at end of form, or attachment.)

Name of Claimant: National Park Service, U.S. Government, Department of Interior
(Last) (First) (M.I.)

450 Golden Gate Avenue, Box 36063, San Francisco, CA 94102 (415) 556-8660
(Address, City, State, Zip) (Telephone No.)

State the nature of the right or use on which claim is based: (indicate, and attach supporting documentation)

- A. Right to surface water initiated by beneficial use prior to June 12, 1919.
Indicate registry number if previously submitted under Water Rights Registration Act _____
- B. Court Decreed Water Right. Cite Title and Date of Case _____
Cause No. _____ County _____
- C. Application for Permit to Appropriate Water filed. State Land Department
Application No. _____, Permit No. _____, Certificate of
Water Right No. _____
- D. Claim of Water Right for a Stockpond. State Land Department Application
No. _____

E. ☒ Other. Describe: Federal Reserve Water Right - Brown Allotment Spring (Coronado

A. Date of initiation of right: Nov. 6, 1906 (see explanatory) National Memorial
(Month/Day/Year)

B. Date water first used for beneficial purposes: Nov. 6, 1906
(Month/Day/Year)

Purpose, annual amount and annual period of use: (see explanatory)

Purpose	Amount	Month/Day	Month/Day
Irrigation	_____ ac.ft./gallons	From _____ to _____	
Domestic	_____ ac.ft./gallons	From _____ to _____	
Stockwater	☒ _____ ac.ft./gallons	From <u>Jan. 1</u> to <u>Dec. 31</u>	
Municipal	_____ ac.ft./gallons	From _____ to _____	
Power	_____ ac.ft./gallons	From _____ to _____	
Mining	_____ ac.ft./gallons	From _____ to _____	
Recreation	_____ ac.ft./gallons	From _____ to _____	
Wildlife	☒ _____ ac.ft./gallons	From <u>Jan. 1</u> to <u>Dec. 31</u>	
Other Uses	☒ _____ ac.ft./gallons	From <u>Jan. 1</u> to <u>Dec. 31</u>	

A. (1) If for irrigation purposes, describe place of use: (also indicate on map)

Township (N/S) _____ Range (E/W) _____ Section _____ Legal Subdivision _____ No. of Acres. _____

(2) If land reclaimed over period of years, indicate schedule and amount of land reclaimed first and each subsequent year(s): _____

3. A. (3) Indicate kind of crops cultivated: _____
Character of soil: _____
- B. If for domestic purposes, number of persons: _____, or families: _____
- C. If for stockwater purposes, number and kind of stock watered: Cattle.
- D. If for municipal purposes, population to be served, and estimate of future requirements: _____
- E. If for power purposes, describe type of plant and capacity: _____
- F. If for mining purposes, describe purpose of use, location and character of the mine(s) to be served: _____
- G. If for recreational purposes, describe: _____
- H. If for wildlife purposes, including fish, describe: Natural water supply for indigenous flora and fauna.
- I. If for other purposes, describe: Fire suppression.
5. A. Direct source of public water diverted: spring tributary to San Pedro River on the San Pedro watershed.
- B. Point of Diversion (indicate on map): NE 1/4 NE 1/4, Section 7
Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base and Meridian, County Cochise. Ownership National Park Service.
- C. Place of use (indicate on map): SE 1/4 NE 1/4, Section 7
Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base and Meridian, County Cochise. Ownership National Park Service.
7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: well - Brown Allotment Well
- B. Location of Source (indicate on map): 1/4 1/4, Section
Township _____ (N/S), Range _____ (E/W), Gila and Salt River Base and Meridian, County _____ Ownership _____
- C. If other source is well, list following:
- (1) Date well construction began: 1945; Date well placed in use: 1946
(Month/Day/Year) (Month/Day/Year)
 - (2) Location (10 acre subdivision) (indicate on map): NW 1/4 SE 1/4 SW 1/4
Section 8, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise.
 - (3) State Land Department Intent to Drill, File No. _____, or Application for Permit No. _____
 - (4) State whether free flowing or pump: pump. If pump, list type of pump and capacity: Windmill
 - (5) Casing depth 115 ft. Total well depth 115 ft. Diameter of casing 6 inches.
 - (6) Depth to water: 85 ft. (Static Level)
 - (7) Annual amount pumped, or otherwise extracted: _____ Ac.Ft./Gallons
 - (8) State purpose of use: stockwatering, wildlife, fire suppression
 - (9) Indicate annual period of use: Jan. 1 to Dec. 31
(Month/Day) (Month/Day)
- 3.* Water storage reservoir and/or diverting works:
- A. Location (indicate on map): NE 1/4 NE 1/4, Section 7
Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base and Meridian, County Cochise. Ownership National Park Service
- B. Name of storage reservoir and/or diverting works (if known): _____
- C. Maximum capacity: _____ Ac.Ft.
- D. Maximum depth of water: _____ ft.

* Continued on page 6.

7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: well - Coronado Well #4
- B. Location of Source (indicate on map): SE 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base and Meridian, County Cochise. Ownership
- C. If other source is well, list following:
- (1) Date well construction began: Feb. 4, 1975; Date well placed in use: July 3, 1975.
(Month/Day/Year)
 - (2) Location (10 acre subdivision) (indicate on map): SE 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise
 - (3) State Land Department Intent to Drill, File No. , or Application for Permit No.
 - (4) State whether free flowing or pump: . If pump, list type of pump and capacity:
 - (5) Casing depth 724 ft. Total well depth 758 ft. Diameter of casing 10 inches.
 - (6) Depth to water: 623.4 ft. (Static Level)
 - (7) Annual amount pumped, or otherwise extracted: Ac.Ft./Gallons
 - (8) State purpose of use: not presently in use
 - (9) Indicate annual period of use: to .
(Month/Day) (Month/Day)
7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: well - (D-24-21)17 bcb 1
- B. Location of Source (indicate on map): NW 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County Cochise. Ownership
- C. If other source is well, list following:
- (1) Date well construction began: ; Date well placed in use: 1943.
(Month/Day/Year)
 - (2) Location (10 acre subdivision) (indicate on map): NW 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise
 - (3) State Land Department Intent to Drill, File No. , or Application for Permit No.
 - (4) State whether free flowing or pump: . If pump, list type of pump and capacity:
 - (5) Casing depth ft. Total well depth 130 ft. Diameter of casing inches.
 - (6) Depth to water: ft. (Static Level)
 - (7) Annual amount pumped, or otherwise extracted: Ac.Ft./Gallons
 - (8) State purpose of use: no longer in use
 - (9) Indicate annual period of use: to .
(Month/Day) (Month/Day)

7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: well - Coronado Well #4
- B. Location of Source (indicate on map): SE 1/4 SE 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base and Meridian, County Cochise. Ownership
- C. If other source is well, list following:
- (1) Date well construction began: Feb. 4, 1975; Date well placed in use: July 3, 1975
(Month/Day/Year)
- (2) Location (10 acre subdivision) (indicate on map): SE 1/4 SE 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise
- (3) State Land Department Intent to Drill, File No. , or Application for Permit No.
- (4) State whether free flowing or pump: . If pump, list type of pump and capacity:
- (5) Casing depth 724 ft. Total well depth 758 ft. Diameter of casing 10 inches.
- (6) Depth to water: 623.4 ft. (Static Level)
- (7) Annual amount pumped, or otherwise extracted: Ac.Ft./Gallons
- (8) State purpose of use: not presently in use
- (9) Indicate annual period of use: to
(Month/Day) (Month/Day)

7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: Zalek well - (D-24-21)17 bcb 1
- B. Location of Source (indicate on map): NW 1/4 SW 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County Cochise. Ownership
- C. If other source is well, list following:
- (1) Date well construction began: ; Date well placed in use: 1943
(Month/Day/Year)
- (2) Location (10 acre subdivision) (indicate on map): NW 1/4 SW 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise
- (3) State Land Department Intent to Drill, File No. , or Application for Permit No.
- (4) State whether free flowing or pump: . If pump, list type of pump and capacity:
- (5) Casing depth ft. Total well depth 130 ft. Diameter of casing inches.
- (6) Depth to water: ft. (Static Level)
- (7) Annual amount pumped, or otherwise extracted: Ac.Ft./Gallons
- (8) State purpose of use: no longer in use
- (9) Indicate annual period of use: to
(Month/Day) (Month/Day)

7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: well - (D-24-21) 17 bcb 2
- B. Location of Source (indicate on map): 1/4 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base and Meridian, County Cochise. Ownership
- C. If other source is well, list following:
- (1) Date well construction began: 1943; Date well placed in use: 1943
(Month/Day/Year)
 - (2) Location (10 acre subdivision) (indicate on map): NW 1/4 SW 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise
 - (3) State Land Department Intent to Drill, File No. , or Application for Permit No.
 - (4) State whether free flowing or pump: pump. If pump, list type of pump and capacity: submersible - less than 35 gpm
 - (5) Casing depth 6 ft. Total well depth 90 ft. Diameter of casing 6 inches.
 - (6) Depth to water: 56.8 ft. (Static Level)
 - (7)* Annual amount pumped, or otherwise extracted: Ac.Ft./Gallons
 - (8) State purpose of use: domestic and stockwatering
 - (9) Indicate annual period of use: to
(Month/Day) (Month/Day)

7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: well - (D-24-21) 17 bcb 3
- B. Location of Source (indicate on map): 1/4 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base and Meridian, County Cochise. Ownership
- C. If other source is well, list following:
- (1) Date well construction began: 1969 (?); Date well placed in use: 1969 (?)
(Month/Day/Year)
 - (2) Location (10 acre subdivision) (indicate on map): NW 1/4 SW 1/4, Section 17, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise
 - (3) State Land Department Intent to Drill, File No. , or Application for Permit No.
 - (4) State whether free flowing or pump: pump. If pump, list type of pump and capacity: submersible - less than 35 gpm
 - (5) Casing depth ft. Total well depth 125 ft. Diameter of casing inches.
 - (6) Depth to water: 53.1 ft. (Static Level)
 - (7)* Annual amount pumped, or otherwise extracted: Ac.Ft./Gallons
 - (8) State purpose of use: domestic and stockwatering
 - (9) Indicate annual period of use: to
(Month/Day) (Month/Day)

* Wells (D-24-21) 17 bcb 2 and 3 are used to supply the water needs of two residences (two in-holdings within the monument), annual period of use: January 1 - December 31; and are used to supply water for grazing under permit (approximately 50 head), annual period of use: October 1 - March or April.

7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: well - Headquarters Well
- B. Location of Source (indicate on map): 1/4 1/4, Section 18, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base and Meridian, County of Cochise. Ownership
- C. If other source is well, list following:
- (1) Date well construction began: April 13, 1959; Date well placed in use: May 9, 1959.
(Month/Day/Year)
 - (2) Location (10 acre subdivision) (indicate on map): NW 1/4 SW 1/4, Section 18, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise
 - (3) State Land Department Intent to Drill, File No. , or Application for Permit No.
 - (4) State whether free flowing or pump: pump. If pump, list type of pump and capacity: submersible - 10 gpm
 - (5) Casing depth 84 ft. Total well depth 97.9 ft. Diameter of casing 8 inches.
 - (6) Depth to water: 43.8 ft. (Static Level)
 - (7) Annual amount pumped, or otherwise extracted: 3.6 X 10⁵ ~~Ac.Ft.~~ Gallons
 - (8) State purpose of use: domestic
 - (9) Indicate annual period of use: Jan. 1 to Dec. 31.
(Month/Day) (Month/Day)
7. State all other sources of water supply not described in Question 6 of this form.
- A. Type of Source: well - Forest Service Well
- B. Location of Source (indicate on map): 1/4 1/4, Section 18, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise. Ownership
- C. If other source is well, list following:
- (1) Date well construction began: unknown; Date well placed in use: unknown.
(Month/Day/Year)
 - (2) Location (10 acre subdivision) (indicate on map): NE 1/4 SE 1/4, Section 18, Township 24 (N/S), Range 21 (E/W), Gila and Salt River Base Meridian, County of Cochise
 - (3) State Land Department Intent to Drill, File No. , or Application for Permit No.
 - (4) State whether free flowing or pump: . If pump, list type of pump and capacity:
 - (5) Casing depth 20 ft. Total well depth 141 ft. Diameter of casing 5 inches.
 - (6) Depth to water: 43.4 ft. (Static Level)
 - (7) Annual amount pumped, or otherwise extracted: Ac.Ft./Gallons
 - (8) State purpose of use: not presently in use
 - (9) Indicate annual period of use: to .
(Month/Day) (Month/Day)

- E. (1) Year construction began: _____
(2) Year construction completed: _____
(3) Date water first stored: _____ (Month/Year).

F. If dam, list following:

- (1) Construction material: _____
(2) Maximum Length: Top _____ ft.; Bottom _____ ft.
(3) Maximum Width: Top _____ ft.; Bottom _____ ft.
(4) Maximum Height: _____ ft.

G. If diverting works, describe: _____

Distribution works:

A. If ditch or canal:

- (1) Date construction began: _____
(Month/Day/Year)
Date construction completed: _____
(Month/Day/Year)

- (2) Length of ditch or canal to first place of use: _____ ft., total
length of ditch or canal: _____ ft.
(3) Top width: _____ ft.; Bottom width: _____ ft.
(4) Grade (slope) of ditch: _____
(5) If ditch or canal owned and/or operated by an association or company or
such other entity, list name of association or company or such other
entity: _____

B. If pipeline:

- (1) Type: steel (i.e., aluminum, steel, etc.)
(2) Diameter: 1 inches
(3) Length of pipeline to first place of use: 1200 ft. and total length
of pipeline: 1200 ft.
(4) Grade (slope) of pipeline: 25%

C. If other, describe: _____

Enlargement(s) of storage reservoir and/or diverting and/or distributing works

A. Date begun: _____
(Month/Day/Year)

Date completed: _____
(Month/Day/Year)

B. Describe details of enlargement(s): _____

C. Dimensions of works as originally constructed and as enlarged: _____

Explanatory

Item 3. This site was authorized for inclusion into Coronado National Memorial on
November 10, 1978 as a part of a land transfer agreement with the U.S.
Forest Service. This portion of Coronado Nat'l Mem. was originally re-
served as a part of the Huachuca Forest Preserve on Nov. 6, 1906.

Item 4. The National Park Service claims the entire flow from this source for the
indicated purposes. The volumetric flow from this source was measured
at 2.0 gpm on 8/19/80. The estimated annual flow from this source is
(continued on the next page)

(continued on the next page)

NOTE

The following well registrations were filed for four wells at Coronado National Memorial in June 1982. These wells are located on public domain and are considered Federal reserved water rights. These wells were not claimed in the San Pedro River adjudication because under Arizona water law "percolating ground waters" are not appropriable. A determination by the Court is yet to be made as to whether these wells are appropriable. Regardless, the Headquarters Well is currently being used for reserved purposes and the remaining three wells could be utilized as Federal reserved water rights for future consumptive uses.

DEPARTMENT OF WATER RESOURCES
39 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004



REGISTRATION OF EXISTING WELLS

INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING
PRINT OR TYPE - FILE IN DUPLICATE

FOR OFFICE USE ONLY

REGISTRATION NO. 629139
FILE NO. D(24-21)18-6-6
FILED 6-9-82 AT 1:30
(DATE) (TIME)
INA
AMA

REGISTRATION FEE (CHECK ONE)

EXEMPT WELL (NO CHARGE) ☒
NON-EXEMPT WELL - \$10.00 ☐

1. Name of Registrant:

National Park Service, Western Region, Division of Water Resources

450 Golden Gate Ave., Box 36063, San Francisco CA 94102
(Address) (City) (State) (Zip)

2. File and/or Control Number under previous groundwater law:

(File Number) 35- (Control Number)

3. a. The well is located within the NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 18
of Township 24 S N/S, Range 21 E E/W, G & SRB & M, in the
County of Cochise.

b. If in a subdivision: Name of subdivision
Lot No. Address

4. The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)
public supply, domestic, fire suppression

5. If for irrigation use, number of acres irrigated from well

6. Owner of land on which well is located. If same as Item 1, check this box ☒

(Address) (City) (State) (Zip)

7. Well data (If data not available, write N/A)

- a. Depth of Well 98 feet
b. Diameter of casing 8 inches
c. Depth of casing 84 feet
d. Type of casing steel, slotted from 34 - 74 ft below land surface datum
e. Maximum pump capacity not more than 35 gallons per minute.
f. Depth to water 44 feet below land surface.
g. Date well completed May 6 1959
(Month) (Day) (Year)

8. The place(s) of use of water. If same as Item 3, check this box ☒.

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$, Section Township Range
 $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$, Section Township Range

Coronado National Memorial - Headquarters Well

Attach additional sheet if necessary.

9. DATE JUN 3 1982

SIGNATURE OF REGISTRANT

(Sgd) Gerard S. Witucki

GERARD S. WITUCKI
CHIEF, DIVISION OF WATER RESOURCES

CHANGE OF WELL INFORMATION

Registration Number 55 629139

I request the following information be changed in Well File Number D(24-21)18 bel

Date _____, 19____ Signature of Well Owner _____

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, _____, state that I am (no longer) the (new)
owner of the well described below:

Township _____ Range _____ Section _____, _____

Registration #55-_____ File No. _____

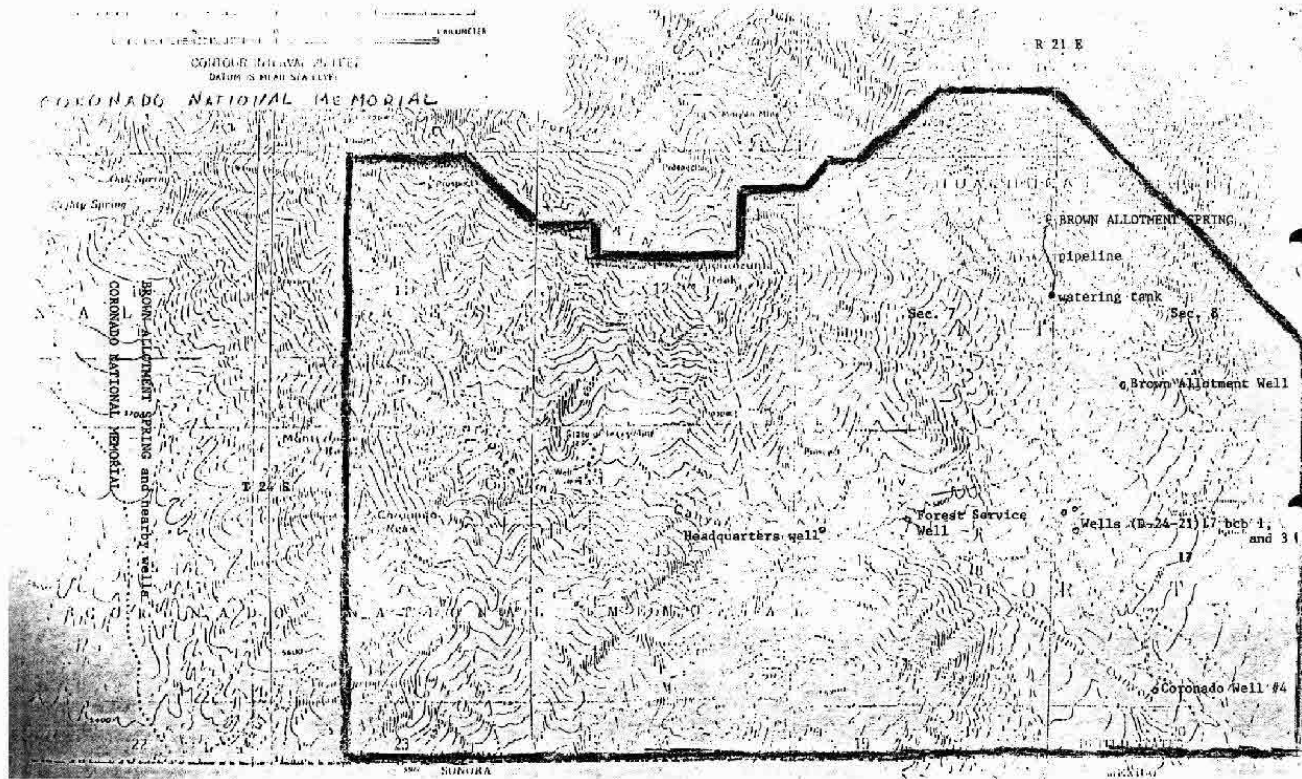
Previous Owner _____ New Owner _____

Address _____ Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

NOTE: ARS 45-593 requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within 30 days after changes take place.

NOTE: SAVE THIS FORM TO REPORT FUTURE
CHANGES IN OWNERSHIP OR WELL
DATA SUCH AS PUMP CAPACITY, ETC.



DEPARTMENT OF WATER RESOURCES
99 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004



REGISTRATION OF EXISTING WELLS

INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING
PRINT OR TYPE - FILE IN DUPLICATE

Declaration: The United States gives this
irrigation to the State in the interest
city, and does not concede that the
the United States to the use of water.

REGISTRATION FEE (CHECK ONE)	
EXEMPT WELL (NO CHARGE)	☒
NON-EXEMPT WELL - \$10.00	☐

FOR OFFICE USE ONLY	
REGISTRATION NO. 88	629140
FILE NO.	D624-2128edt
FILED	6-4-82 AT 1:30
(DATE)	(TIME)
INA	
AMA	

- Name of Registrant:
National Park Service, Western Region, Division of Water Resources
450 Golden Gate Ave., Box 36063, San Francisco CA 94102
(Address) (City) (State) (Zip)
- File and/or Control Number under previous groundwater law:
(File Number) 35- (Control Number)
- The well is located within the NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 8
of Township 24 S N/S, Range 21 E E/W, G & SRB & M, in the
County of Cochise.
 - If in a subdivision: Name of subdivision _____
Lot No. _____, Address _____
- The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)
Stockwater, wildlife
- If for irrigation use, number of acres irrigated from well _____
- Owner of land on which well is located. If same as Item 1, check this box ☒

(Address) (City) (State) (Zip)
- Well data (If data not available, write N/A)
 - Depth of Well 115 feet
 - Diameter of casing 6 inches
 - Depth of casing 115 feet
 - Type of casing case iron, lower 40 ft perforated
 - Maximum pump capacity (windmill) gallons per minute.
 - Depth to water 85 feet below land surface.
 - Date well completed 1946
(Month) (Day) (Year)
- The place(s) of use of water. If same as Item 3, check this box ☒

Coronado National Memorial - Brown Allotment Windmill/Well
Attach additional sheet if necessary.
- DATE JUN 3 1982 SIGNATURE OF REGISTRANT (Sgd) Gerard S. Witucki
GERARD S. WITUCKI
CHIEF, DIVISION OF WATER RESOURCES

CHANGE OF WELL INFORMATION

Registration Number 55 629140

I request the following information be changed in Well File Number D(24-21)8 edb

Date _____, 19____ Signature of Well Owner _____

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, _____, state that I am (no longer) the (new)
owner of the well described below:

Township _____ Range _____ Section _____, _____

Registration #55- _____ File No. _____

Previous Owner _____ New Owner _____

Address _____ Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

NOTE: ARS 45-593 requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within 30 days after changes take place.

NOTE: SAVE THIS FORM TO REPORT FUTURE
CHANGES IN OWNERSHIP OR WELL
DATA SUCH AS PUMP CAPACITY, ETC.



DEPARTMENT OF WATER RESOURCES
99 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004

REGISTRATION OF EXISTING WELLS

READ INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING
PRINT OR TYPE - FILE IN DUPLICATE

Warning: The United States gives this
jurisdiction to the State in the interest
of equity, and does not concede that the
United States to the use of water of

REGISTRATION FEE (CHECK ONE)

EXEMPT WELL (NO CHARGE) ☒

NON-EXEMPT WELL - \$10.00 ☐

FOR OFFICE USE ONLY

REGISTRATION NO. 629141

FILE NO. D(24-21)18 bda

FILED 6-9-82 AT 1:30
(DATE) (TIME)

INA _____

AMA _____

- Name of Registrant:
National Park Service, Western Region, Division of Water Resources
450 Golden Gate Ave., Box 36063, San Francisco CA 94102
(Address) (City) (State) (Zip)
- File and/or Control Number under previous groundwater law:
35-
(File Number) (Control Number)
- The well is located within the NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 18,
of Township 24 S N/S, Range 21 E E/W, G & SRB & M, in the
County of Cochise.
 - If in a subdivision: Name of subdivision _____
Lot No. _____, Address _____
- The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)
unused
- If for irrigation use, number of acres irrigated from well _____
- Owner of land on which well is located. If same as Item 1, check this box ☒

(Address) (City) (State) (Zip)
- Well data (If data not available, write N/A)
 - Depth of Well 140.6 feet
 - Diameter of casing 5 inches
 - Depth of casing 20 feet
 - Type of casing steel
 - Maximum pump capacity N/A gallons per minute.
 - Depth to water 43.4 feet below land surface.
 - Date well completed N/A
(Month) (Day) (Year)
- The place(s) of use of water. If same as Item 3, check this box ☐
 $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$, Section _____ Township _____ Range _____
 $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$, Section _____ Township _____ Range _____
Coronado National Memorial - Forest Service Well
 Attach additional sheet if necessary.
- DATE JUN 3 1982 SIGNATURE OF REGISTRANT (Sgd) Gerard S. Witucki
GERARD S. WITUCKI
 CHIEF, DIVISION OF WATER RESOURCES

CHANGE OF WELL INFORMATION

Registration Number 55 629141

I request the following information be changed in Well File Number D(24-21)186da

Date _____, 19____ Signature of Well Owner _____

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, _____, state that I am (no longer) the (new)
owner of the well described below:

Township _____ Range _____ Section _____, _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____

Registration #55-_____ File No. _____

Previous Owner _____ New Owner _____

Address _____ Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

NOTE: ARS 45-593 requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within 30 days after changes take place.

NOTE: SAVE THIS FORM TO REPORT FUTURE
CHANGES IN OWNERSHIP OR WELL
DATA SUCH AS PUMP CAPACITY, ETC.

DEPARTMENT OF WATER RESOURCES
59 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004



REGISTRATION OF EXISTING WELLS

READ INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING
PRINT OR TYPE - FILE IN DUPLICATE

Registration: The United States gives this location to the State in the interest of the State has power to regulate the rights of the United States to the use of water.

REGISTRATION FEE (CHECK ONE)	
EXEMPT WELL (NO CHARGE)	☒
NON-EXEMPT WELL - \$10.00	☐

FOR OFFICE USE ONLY	
REGISTRATION NO. 88-	629142
FILE NO.	1024-2117 cdd
FILED	6-9-82 AT 1:30
(DATE)	(TIME)
INA	
AMA	

- Name of Registrant:
National Park Service, Western Region, Division of Water Resources
450 Golden Gate Ave., Box 36063, San Francisco CA 94102
(Address) (City) (State) (Zip)
- File and/or Control Number under previous groundwater law:
(File Number) 35- (Control Number)
- The well is located within the SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 17, of Township 24 S N/S, Range 21 E E/W, G & SRB & M, in the County of Cochise.
 - If in a subdivision: Name of subdivision _____, Lot No. _____, Address _____.
- The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial) unused
- If for irrigation use, number of acres irrigated from well _____.
- Owner of land on which well is located. If same as Item 1, check this box ☒

(Address) (City) (State) (Zip)
- Well data (If data not available, write N/A)
 - Depth of Well 758 feet
 - Diameter of casing 10 inches
 - Depth of casing 724 feet
 - Type of casing steel
 - Maximum pump capacity N/A gallons per minute.
 - Depth to water 624 feet below land surface.
 - Date well completed July 3, 1975
(Month) (Day) (Year)
- The place(s) of use of water. If same as Item 3, check this box ☐

Coronado National Memorial - Coronado Well #4
Attach additional sheet if necessary.
- DATE JUN 3 1982 SIGNATURE OF REGISTRANT (Sgd) Gerard S. Witucki
GERARD S. WITUCKI
CHIEF, DIVISION OF WATER RESOURCES

CHANGE OF WELL INFORMATION

Registration Number 55 629142

I request the following information be changed in Well File Number D(24-21)17 cdd

Date _____, 19____ Signature of Well Owner _____

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, _____, state that I am (no longer) the (new) owner of the well described below:

Township _____ Range _____ Section _____, _____

Registration #55-_____ File No. _____

Previous Owner _____ New Owner _____

Address _____ Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

NOTE: ARS 45-593 requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within 30 days after changes take place.

NOTE: SAVE THIS FORM TO REPORT FUTURE
 CHANGES IN OWNERSHIP OR WELL
 DATA SUCH AS PUMP CAPACITY, ETC.

Future Consumptive Water Use For Coronado National Memorial, Arizona

Prepared by: Wm. R. Hansen
Reviewed by: J. Harte, WRB, and
Barbara Alberti, CORO
Approved by: Chuck Pettee, WRB

May 6, 2002

Introduction

The objective of this report is to estimate the quantity of water needed for future consumptive use purposes at Coronado National Memorial (CORO). Future water needs are estimated for the year 2051, a 50-year projection. This report is prepared in support of federal reserved water right claims in the San Pedro River Adjudication in Arizona.

In 1991, Mary Hermes, Colorado State University Research Associate, working for the NPS Water Rights Branch, estimated the total consumptive use water needs of CORO to be 5.9 acre-feet, excluding fire suppression. She used staffing estimates and standard consumption rates to make her estimate because no metered water data were available at that time. She recommended a future consumptive use claim of 8 acre-feet per year that included fire suppression needs of 0.7 acre-feet per year and a 20 percent contingency. In 1995, I made the decision to exclude fire suppression needs and the contingency during negotiations. Measured water use data are now available, allowing for a reexamination of previous estimates.

Projection – Method and Analysis

The methodology employed in estimating CORO's future water needs is first to determine the Park's current water use and then to apply an appropriate growth rate to that use for a period of 50 years. A 50-year projection is considered reasonable based upon available data and the NPS's mandate to manage the park in perpetuity.

Current Water Use

Annual Park water use records were obtained for May 1996 – Jan 2002 from Barbara Alberti, Acting Superintendent at CORO. Current water use is estimated from this data by averaging the annual water use values for 1997 – 2001. The annual water use values for the years 1996 and 2002 are incomplete and were not used. The annual water use data and the results of the computation are shown in Table 1. Current water use is estimated to be 1.65 acre-feet per year.

Table 1. Annual Water Use at Coronado National Memorial

Date	Meter Reading (gal)	Yearly Pumping (gal)	Yearly Pumping (AF)
5/29/1996	69410		
1/4/1997	615300		
1/4/1998	1137460	522160	1.60
1/8/1999	1734834	597374	1.83
1/5/2000	2299020	564186	1.73
1/2/2001	2811607	512587	1.57
1/3/2002	3307900	496293	1.52
AVG		538520	1.65
STD DEV		41370	0.13

Future Water Needs

In order to make a conservative estimate of future water needs at CORO, the National Park Service-wide compound annual growth rate for the period from 1952-2001 is applied to the estimate of current water use. Appendix A describes the computation of this rate as well as the rationale for its selection as an appropriate rate. Applying the compound annual growth rate of 3.6 percent per year using Equation 1 to current water use of 1.65 acre-feet per year for 50 years yields a projected water need in the year 2051 of 9.67 acre-feet per year.

$$A = P(1 + R)^N \quad \text{Eq. 1}$$

A = Future Consumptive Water Use After N Years at R rate
P = Existing Water Use (1.65)
R = Rate (0.036)
N = Number of years (50)

Conclusion

It is recommended that the NPS amend the consumptive use claim filed in the San Pedro River Adjudication for Coronado National Memorial. The claim should be amended to indicate a future consumptive water use of 10 acre-feet per year.

APPENDIX A

**Determination of a Regional Growth Rate for Projecting Future
Water Needs at Coronado National Memorial, Arizona**

Because park water use is partially a function of park visitation, historic visitation data were examined to determine a reasonable growth rate for estimating future water needs. Unfortunately methods of counting Park visitors have not been consistent over time and visitation numbers have had large swings making estimates of growth rates at individual parks difficult. For this reason, regional growth rates were determined for a number of National Park units in southeastern Arizona.

Compound annual growth rates were computed for three National Park units (Chiricahua NM, Coronado NM, and Saguaro NP) for the period 1955 through 2001, for Ft. Bowie National Historic Site for 1969 through 2001, and for total National Park unit visitation for 1952 through 2001 and 1955 through 2001. Visitation records for Coronado National Memorial and Ft. Bowie National Historic Site begin in 1955 and 1969, respectively. Actual data for total nationwide park visitation is shown in Appendix A, along with the computation of annual growth rates for several periods. Growth rates for park units in the area were similarly computed and are shown in Appendices B and C. The results of these computations are shown in Table 1 below. Compound annual growth rates range from 1.6 percent per year at Chiricahua National Monument to 7.6 percent per year at Ft. Bowie National Historic Site, with a nationwide growth rate of 3.6 percent for a 50-year period.

Adopting the nationwide average annual growth rate of 3.6 percent as the regional growth rate is reasonable and avoids the wide visitation swings (a growth increase of up to 135 percent in 1963 and a reduction of 33 percent in 1969) observed at Coronado National Memorial. It also uses a fifty-year period and incorporates the most visitation data, potentially mitigating the effects of inconsistent visitor counting methods.

Table 1. Compounded Annual Growth Rates for Coronado National Memorial, Chiricahua National Memorial, and Saguaro National Park, 1955-2001, Ft. Bowie, 1969-2001, and the Nationwide Averages, 1952-2001 and 1955-2001.

	National 1952-2001	National 1955-2001	Coronado NM	Chiricahua NM	Saguaro NP	Ft. Bowie NHS
Growth Rate (%/yr)	3.6	3.5	5.5	1.6	4.6	7.6

Appendix B

"Recreational" visits for CORO

YEAR	TOTAL # VISITORS	Growth Rate
1955	7300	
1956	10400	0.425
1957	11500	0.106
1958	13000	0.130
1959	13900	0.069
1960	16900	0.216
1961	18200	0.077
1962	24800	0.363
1963	58300	1.351
1964	40000	-0.314
1965	59100	0.478
1966	46500	-0.213
1967	51000	0.097
1968	44700	-0.124
1969	30000	-0.329
1970	39400	0.313
1971	47300	0.201
1972	58138	0.229
1973	47700	-0.180
1974	36700	-0.231
1975	71700	0.954
1976	73100	0.020
1977	61900	-0.153
1978	60187	-0.028
1979	59751	-0.007
1980	42648	-0.286
1981	46681	0.095
1982	43330	-0.072
1983	33539	-0.226
1984	39319	0.172
1985	44026	0.120
1986	53832	0.223
1987	55793	0.036
1988	69730	0.250
1989	56734	-0.186
1990	56993	0.005
1991	61893	0.086
1992	69179	0.118
1993	78931	0.141
1994	86667	0.098
1995	92100	0.063
1996	93656	0.017
1997	87788	-0.063
1998	90565	0.032
1999	87183	-0.037
2000	84898	-0.026
2001	89107	0.050

CORO AVG 1955-2001

0.088

CORO COMP 1955-2001

0.055

"Recreational" visits for CHIR

YEAR	TOTAL # VISITORS	Growth Rate
1955	35500	
1956	46500	0.310
1957	47000	0.011
1958	49900	0.062
1959	41800	-0.162
1960	45400	0.086
1961	43400	-0.044
1962	51700	0.191
1963	51800	0.002
1964	43700	-0.156
1965	47000	0.076
1966	46900	-0.002
1967	47600	0.015
1968	50000	0.050
1969	50000	0.000
1970	54400	0.088
1971	54100	-0.006
1972	67912	0.255
1973	67700	-0.003
1974	52800	-0.220
1975	58900	0.116
1976	58500	-0.007
1977	42700	-0.270
1978	49122	0.150
1979	49484	0.007
1980	49232	-0.005
1981	51864	0.053
1982	55058	0.062
1983	51737	-0.060
1984	59818	0.156
1985	61680	0.031
1986	61472	-0.003
1987	61895	0.007
1988	63776	0.030
1989	70342	0.103
1990	78191	0.112
1991	83687	0.070
1992	104816	0.252
1993	127840	0.220
1994	88544	-0.307
1995	94171	0.064
1996	92842	-0.014
1997	80710	-0.131
1998	73746	-0.086
1999	102541	0.390
2000	85562	-0.166
2001	75824	-0.114

CHIR AVG 1955-2001

0.026

CHIR COMP 1955-2001

0.016

Appendix C

"Recreational" visits for SAGU

YEAR	TOTAL # VISITORS	Growth Rate
1955	86600	
1956	101200	0.169
1957	134300	0.327
1958	122700	-0.086
1959	133900	0.091
1960	141000	0.053
1961	145100	0.029
1962	146300	0.008
1963	177000	0.210
1964	215900	0.220
1965	229700	0.064
1966	228400	-0.006
1967	267800	0.173
1968	307100	0.147
1969	409000	0.332
1970	351800	-0.140
1971	323300	-0.081
1972	319084	-0.013
1973	390800	0.225
1974	363800	-0.069
1975	395100	0.086
1976	401000	0.015
1977	422500	0.054
1978	549112	0.300
1979	566486	0.032
1980	611317	0.079
1981	470598	-0.230
1982	566807	0.204
1983	634688	0.120
1984	699292	0.102
1985	636711	-0.089
1986	613651	-0.036
1987	689933	0.124
1988	675397	-0.021
1989	706191	0.046
1990	702328	-0.005
1991	679034	-0.033
1992	810059	0.193
1993	828267	0.022
1994	768685	-0.072
1995	732813	-0.047
1996	671643	-0.083
1997	739410	0.101
1998	716100	-0.032
1999	749014	0.046
2000	765195	0.022
2001	725874	-0.051

SAGU AVG 1955-2001 0.054
SAGU COMP 1955-2001 0.046

"Recreational" visits for FOBO

YEAR	TOTAL # VISITORS	Growth Rate
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969	800	
1970	1900	1.375
1971	1700	-0.105
1972	3742	1.201
1973	3400	-0.091
1974	3400	0.000
1975	5300	0.559
1976	6500	0.226
1977	5800	-0.108
1978	5231	-0.098
1979	5827	0.114
1980	5103	-0.124
1981	5153	0.010
1982	5055	-0.019
1983	4912	-0.028
1984	5044	0.027
1985	5635	0.117
1986	7364	0.307
1987	6772	-0.080
1988	7209	0.065
1989	7564	0.049
1990	7592	0.004
1991	8159	0.075
1992	9237	0.132
1993	9192	-0.005
1994	11022	0.199
1995	10574	-0.041
1996	10666	0.009
1997	9623	-0.098
1998	9168	-0.047
1999	9390	0.024
2000	8898	-0.052
2001	8858	-0.004

FOBO AVG 1969-2001 0.112
FOBO COMP 1969-2001 0.076

Appendix A**Number of visitors and interannual growth rates for all National Park Service units, 1904-2001.**

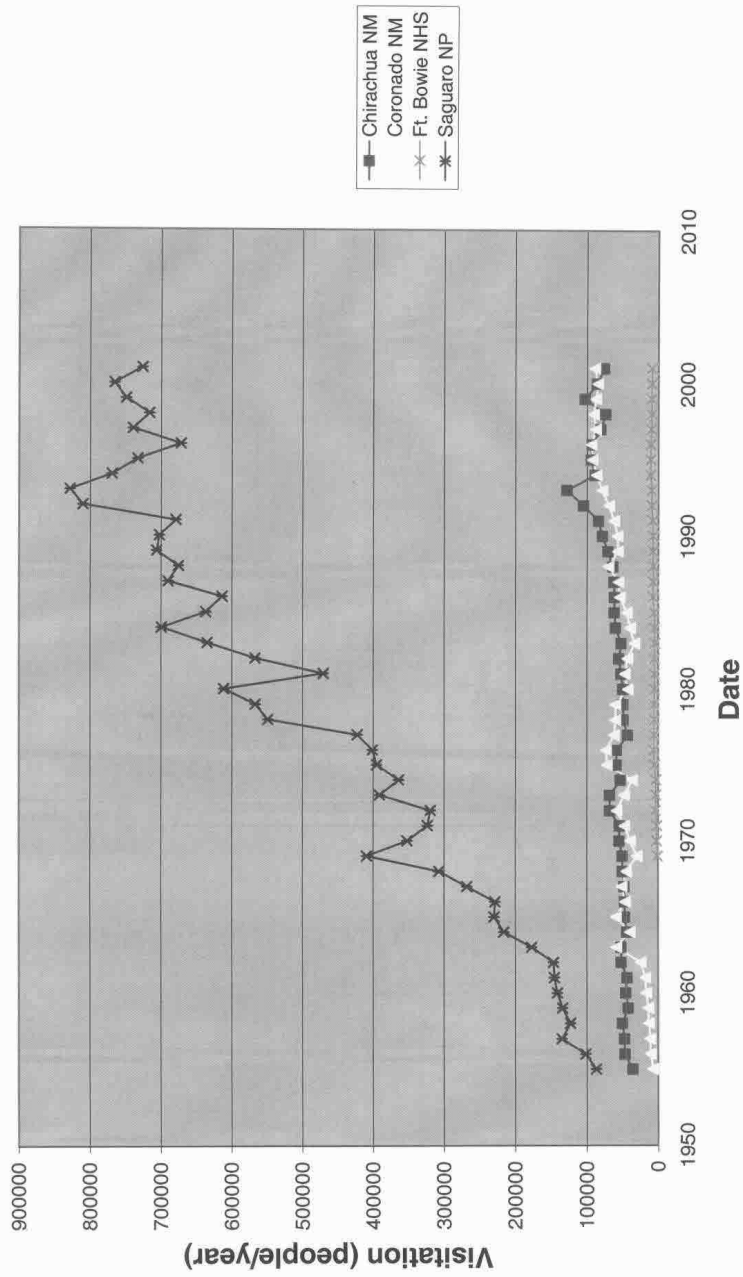
Year	Visitors	Growth Rate(%)	Year	Visitors	Growth Rate(%)
1904	122,594		1953	52,268,174	10.3
1905	142,859	16.5	1954	54,210,200	3.7
1906	32,475	-77.3	1955	56,572,800	4.4
1907	63,242	94.7	1956	61,602,300	8.9
1908	70,926	12.2	1957	68,016,000	10.4
1909	87,998	24.1	1958	65,460,900	-3.8
1910	200,516	127.9	1959	68,900,500	5.3
1911	224,407	11.9	1960	79,229,000	15.0
1912	229,534	2.3	1961	86,665,161	9.4
1913	252,153	9.9	1962	97,046,762	12.0
1914	240,193	-4.7	1963	102,712,763	5.8
1915	335,299	39.6	1964	111,387,664	8.4
1916	358,006	6.8	1965	121,313,965	8.9
1917	490,705	37.1	1966	133,083,066	9.7
1918	454,841	-7.3	1967	139,677,567	5.0
1919	811,516	78.4	1968	150,837,568	8.0
1920	1,058,455	30.4	1969	163,991,969	8.7
1921	1,173,718	10.9	1970	172,006,570	4.9
1922	1,218,419	3.8	1971	153,693,200	-10.6
1923	1,495,635	22.8	1972	165,653,324	7.8
1924	1,672,832	11.8	1973	168,922,900	2.0
1925	2,056,487	22.9	1974	171,054,800	1.3
1926	2,316,921	12.7	1975	190,390,600	11.3
1927	2,799,767	20.8	1976	216,554,800	13.7
1928	3,026,472	8.1	1977	210,569,700	-2.8
1929	3,250,192	7.4	1978	222,184,042	5.5
1930	3,248,586	0.0	1979	205,369,808	-7.6
1931	3,544,938	9.1	1980	220,463,199	7.3
1932	3,754,596	5.9	1981	238,592,669	8.2
1933	3,481,590	-7.3	1982	244,924,579	2.7
1934	6,337,206	82.0	1983	243,616,747	-0.5
1935	7,676,490	21.1	1984	248,785,509	2.1
1936	11,989,793	56.2	1985	263,441,808	5.9
1937	15,133,432	26.2	1986	281,094,850	6.7
1938	16,331,467	7.9	1987	287,244,998	2.2
1939	15,530,636	-4.9	1988	282,451,441	-1.7
1940	16,755,251	7.9	1989	269,399,837	-4.6
1941	21,236,947	26.7	1990	258,682,828	-4.0
1942	9,370,969	-55.9	1991	267,840,999	3.5
1943	6,828,420	-27.1	1992	274,694,549	2.6
1944	8,339,775	22.1	1993	273,120,925	-0.6
1945	11,713,852	40.5	1994	268,636,169	-1.6
1946	21,752,315	85.7	1995	269,564,307	0.3
1947	25,534,188	17.4	1996	265,796,163	-1.4
1948	29,858,828	16.9	1997	275,236,335	3.6
1949	31,736,402	6.3	1998	286,739,115	4.2
1950	33,252,589	4.8	1999	287,130,879	0.1
1951	37,106,440	11.6	2000	285,891,275	-0.4
1952	47,379,438	27.7	2001	279,873,926	-2.1

Computed Average Annual Growth Rate: 1955-2001 0.037

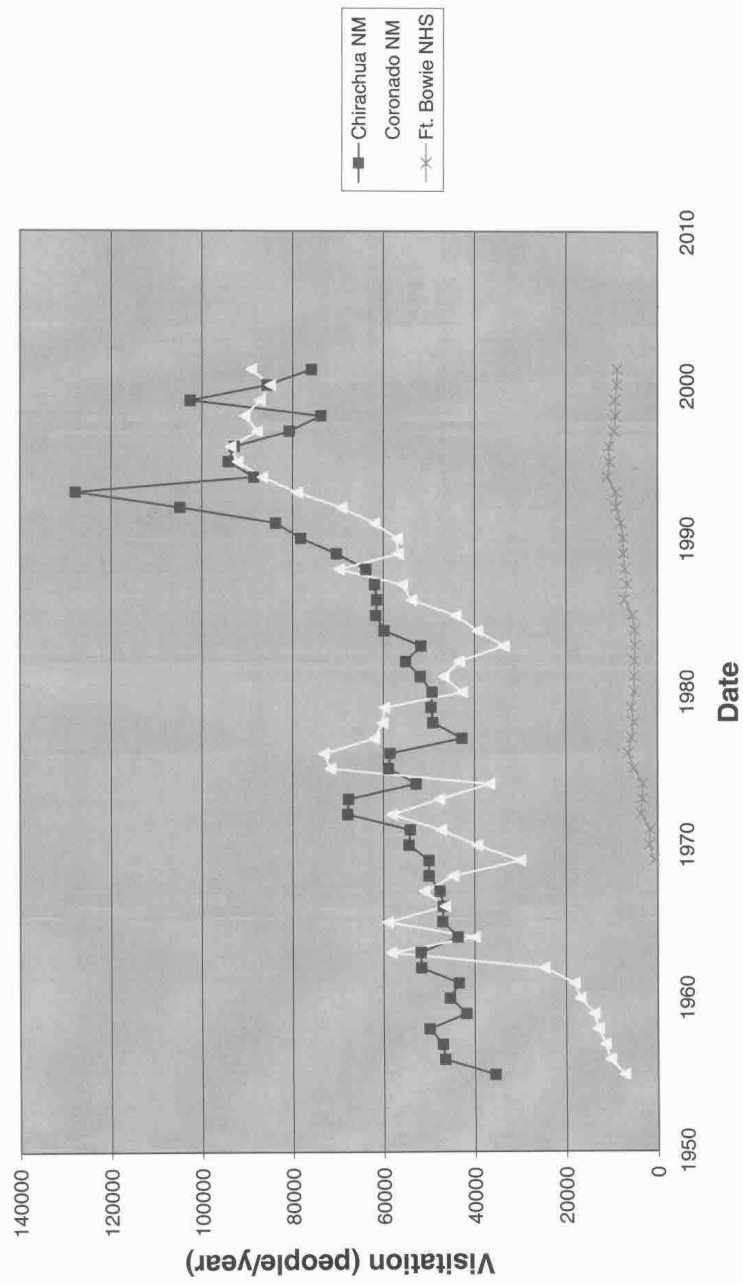
Compounded Annual Growth Rate: 1955-2001 0.035

Compounded Annual Growth Rate: 1952-2001 0.036

Regional Visitation - Southeastern Arizona (1955-2001)



Regional Visitation - Southeastern Arizona (1955-2001)





IN REPLY REFER TO:

L54(479)
CORO

United States Department of the Interior

NATIONAL PARK SERVICE
Water Resources Division
1201 Oak Ridge Drive, Suite 250
Fort Collins, Colorado 80525-5596

June 1, 1995

Memorandum

TO: Superintendent, Coronado National Memorial
FROM: Larry Martin, Hydrogeologist, Water Resources Division
DATE: May 31, 1995
SUBJECT: Ground water monitoring plan for Coronado National Memorial

Attached is a ground water monitoring plan for Coronado National Memorial. The purpose of ground water monitoring at the Memorial is to assess the reliability of the park's water supply well and to provide an early warning of potential impacts that might occur as a result of housing developments anticipated in the area immediately outside the park boundary.

Water Resources Division personnel are available to provide assistance with data analysis. Additionally, copies of monitoring data should be provided to WRD for archiving in their files in Ft. Collins.

Larry Martin

Attachments

cc: 479 - Hansen
Southwest SSO - Kunkle
SOAR - Davis

GROUND WATER MONITORING PLAN

CORONADO NATIONAL MEMORIAL

Larry Martin
Water Resources Division
Ft. Collins, CO
May 31, 1995

Background

The Monument's water supply well is located approximately ¼ mile west of the visitor center along the bottom of Montezuma Canyon. The well is completed in rocks of the Morita Formation, which generally have a low permeability. The amount of water available from the well is generally sufficient to supply the visitor center and three homes. The well is close to a fault which separates the Morita Formation from the quartz monzonite rocks to the north. Faulting and fractures in the area have probably increased the permeability of the rock, and possibly resulted in interconnections with other water sources, notably the alluvium of Montezuma Canyon. The faults may effectively separate the aquifer supplying water to the headquarters well from aquifers in the terrace gravels further to the east.

Almost all precipitation falling in the drainage basin of Montezuma Canyon runs off the relatively impermeable rocks. In the lower part of the canyon, runoff can recharge the local aquifer system by infiltration into alluvial deposits. This recharge may be the primary source of water for the Headquarters well. If this is the case, there could be large variations in the depth to the water table in direct correlation to recharge from rainfall.

Further to the east (section 17), wells located at the former Zalesk (aka Baumkirchner) and Montezuma (aka Richards) Ranches probably obtain water from wells completed in terrace gravel deposits emanating from the mountains to the north. These gravel deposits are most likely the potential sources of potable water for housing developments that might be constructed between the park and the San Pedro River in Sections 3, 4, 9, 10, 15, & 16.

It is likely that the aquifer supplying the park's headquarters well is geologically separated (by faulting) from aquifers (see attached map) that would be used by potential new housing developments east of the park. The park should, however, initiate a ground water monitoring program to allow identification of impacts that might occur as a result of pumping outside the park boundary, and to determine the reliability of its own water supply.

Headquarters Well

Park personnel stated that a meter was to be installed on the discharge line from this well as part of some maintenance work later this summer. Regular monitoring of depth to the water table should be initiated at that time. Standard protocol would be to record depth to water from the top of the casing in one column of a data sheet and to have a second column for depth to water below ground surface. Other columns should include date, time, observer, and meter reading (gallons). A suggested format for a field data sheet is attached.

Monitoring should be conducted at least monthly, and preferably on a weekly basis.

During our field visit on May 2, 1995, depth to water in this well was 7.22 feet below the top of the casing and 3.47 feet below land surface.

Other Wells

For the present time, depth to water at one of the wells at the Zalesk Ranch should be monitored on a monthly basis to allow us to begin documenting the natural range of water table fluctuation in the terrace gravels in this area. My recommendation is to monitor the northernmost of the two wells, Baumkirchner #3. This was the more productive of the two wells when tested in 1980. Depth to water in this well was reportedly 54.09' in August 1980, 37.98' in April 1983, and measured at 30.10 feet on May 2, 1995.

If, or when, the Montezuma Ranch is acquired by the National Park Service, monitoring should be initiated on one of the wells on that property. Depth to the water table at these wells was in excess of 100 feet on May 2, 1995. Depth to water was reportedly 180 feet in 1965. Monitoring at one of these wells will provide an indication of the slope of the water table toward the San Pedro River in the terrace gravel deposits and provide an early warning of water table declines, should they occur.

Equipment and Data Analysis

Recommended device for making depth to water measurements is a chalked steel tape or an electric water level meter. These tapes are available from Forestry Suppliers, Ben Meadows, and many other environmental monitoring suppliers.

All water level measurements should be made and recorded to the nearest 0.01'. Precipitation at the memorial should be monitored and recorded to the nearest 0.01'.

At the end of the first year, precipitation and depth to water data for the Baumkirchner #3 well should be plotted on a graph to identify both the range of water table fluctuations and correlations between precipitation and depth to water.

Precipitation data, depth to water and withdrawal rates at the Headquarters well should be compared to allow insight into the relationships between these parameters and to provide the park with an indication of the reliability of this well as the main supply well for the park. Also, comparison of data from the Headquarters well with data from the Baumkirchner #3 well will provide an indication of possible interconnectivity between the aquifers, and thus the potential for impacts from outside development on the park's water supply well.

Water Resources Division personnel can assist the park with setting up databases, graphing, and interpretation if requested by the superintendent. In addition, WRD would greatly appreciate copies of monitoring results on an annual basis.

NOTE: Measuring point is top of well casing, which is 3.75 feet above ground surface.

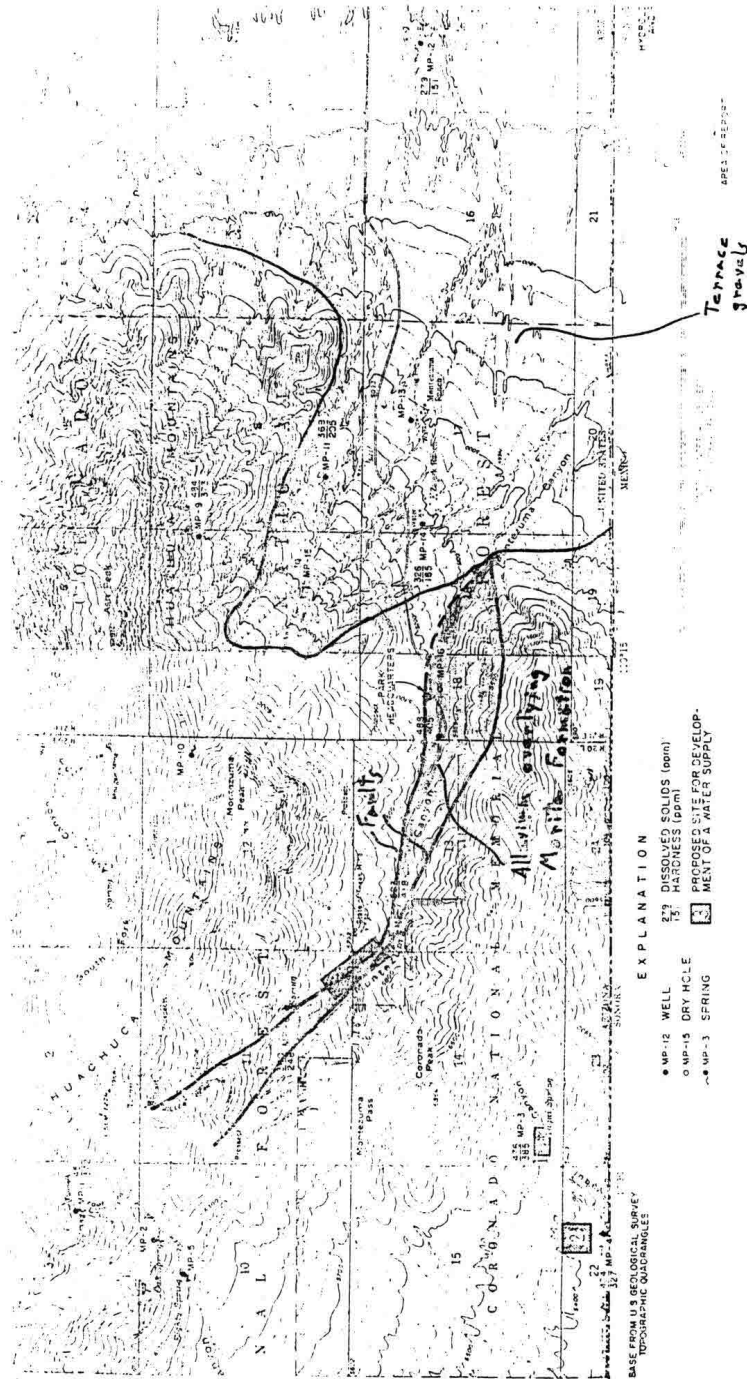


FIGURE 1.--LOCATION OF WELLS AND SPRINGS, CHEMICAL QUALITY OF WATER, AND PROPOSED SITES FOR DEVELOPMENT OF A WATER SUPPLY.

Geology simplified from preliminary map by Ken Hon, USGS

WAT
2/11/91

ESTIMATED FUTURE CONSUMPTIVE WATER NEEDS FOR
CORONADO NATIONAL MEMORIAL, ARIZONA

Prepared by Mary Hermes, Research Associate
February 11, 1991

An estimate of future consumptive water use at Coronado National Memorial (CORO) in Arizona was made as a basis for amending the National Park Service's statement of claimant forms for CORO in the San Pedro River adjudication. An amendment is required to add future uses to the Federal reserved water right claim made in 1985. No information on the maximum visitor capacity of CORO was found, thus, future water use was estimated for fifty years in the future.

Visitor facilities with water use at CORO include a visitor center with rest rooms, a large picnic area with rest rooms, and the Montezuma overlook which has a water fountain to which water is hauled (National Park Service, 1991a).

Staff facilities at CORO include a maintenance area at which vehicles can be washed. The maintenance area also has rest room facilities. There are presently four full-time employees and two seasonal employees at the memorial. CORO hopes to convert two part-time positions to full-time and add one seasonal employee within the next year. Two of the full-time employees work in the maintenance area.

CORO has year-round staff living quarters for four families. Presently, two of the houses are occupied. Each housing unit has approximately 2800 square feet of watered area (National Park Service, 1991b).

The main well at CORO, which presently supplies the headquarters-residential area, pumps at an average of 20 gallons per minute. The memorial also has a 50,000-gallon storage tank (National Park Service, 1991b).

To estimate future visitor water use at CORO, a linear projection of annual visitation was made. Normally, future visitation is estimated using the last ten years of visitation (National Park Service, 1989a). For CORO, however, a decision was made to not include visitation from 1981, 1982, and 1988. Visitation for these years did not fit with a linear projection made using the other years for 1981-1990. It is not known why visitation in 1981 and 1982 was so high, but according to the Superintendent of CORO (National Park Service, 1991c), there was a big fire at the memorial in 1988, and they had a lot of local visitation after the fire--people just wanting to see what it looked like. Based on the calculated linear regression equation, visitation at CORO in 2040 (fifty years from now) will be approximately 240,000 people (Worksheet A). The estimated water use associated with this estimated visitation is:

$$(5 \text{ gallons/person}^1)(240,000 \text{ people}) = 1,200,000 \text{ gallons}$$

To estimate future staff water use at CORO, several assumptions were made. First, it was assumed that there would be six full-time employees working approximately 261 days a year and one seasonal employee working approximately 130 days a year (40 hours a week, for six months). Second, it was assumed that the four residences at CORO would be occupied year-round, with an average of four people living in each residence. It was also assumed that each household would use water for lawns and gardens. With these assumptions, the following estimates of future staff water use were made:

Administrative and interpretive full-time staff use:
 $10 \text{ gpcd}^1 (4 \text{ people})(261 \text{ days}) = 10,440 \text{ gallons}$

Seasonal staff use:
 $10 \text{ gpcd}^1 (1 \text{ person})(130 \text{ days}) = 1,300 \text{ gallons}$

Maintenance staff use:
 $50 \text{ gpcd}^1 (2 \text{ people})(261 \text{ days}) = 26,100 \text{ gallons}$

Residence use:
 $4 \text{ res.}(75 \text{ gpcd}^1)(4 \text{ people/res.})(365 \text{ days}) = 438,000 \text{ gallons}$

Lawn and garden use:
 234,896 gallons²

The total amount of water required for future visitor and staff use is estimated at 1,910,736 gallons or 5.9 acre-feet. This amount does not include any water for fire suppression. In 1988, a fire "burned with varying intensity over nearly eighty percent of the 4,800 acres in the memorial" (National Park Service, 1989b). The water use from the memorial to fight this fire was estimated at 240,000 gallons or 0.7 acre-feet (National Park Service, 1991d). Thus, an estimate of the future consumptive water needs at CORO is 6.6 acre-feet. Because of the difficulties involved in estimating future water use, it may be advisable to add a percentage of the estimated water use as contingency. Using 6.6 acre-feet as the estimated future consumptive use, a fifteen percent contingency would be 1.0 acre-foot, and a twenty percent contingency would be 1.3 acre-feet, bringing the estimate of future consumptive water use to approximately 8 acre-feet. Thus, it is recommended that the National Park Service amend its statement of claimant forms for CORO in the San Pedro adjudication to include 8 acre-feet of water for future water use.

Mary Hermes

¹ U.S. Environmental Protection Agency, 1982. Manual of Individual Water Supply Systems.

² See Worksheet B.

REFERENCES

National Park Service, 1989a. November 3, 1989 telephone conversation with Mike Snyder, Rocky Mountain Regional Office.

National Park Service, 1989b. Statement of Management, Coronado National Memorial, U.S. Department of the Interior.

National Park Service, 1991a. January 7, 1991 telephone conversation with Superintendent, Coronado National Memorial.

National Park Service, 1991b. January 9, 1991 memorandum from Superintendent, Coronado National Memorial to Chief, Water Resources Division.

National Park Service, 1991c. January 15, 1991 telephone conversation with Superintendent, Coronado National Memorial.

National Park Service, 1991d. February 4, 1991 telephone conversation with Superintendent, Coronado National Memorial.

WORKSHEET A

Coronado National Memorial

Year	Visitation	Year	Visitation	
1981	47825	1981	47825	1
1982	44425	1982	44425	2
1983	34330	1983	34330	3
1984	40305	1984	40305	4
1985	45252	1985	45252	5
1986	55272	1986	55272	6
1987	57340	1987	57340	7
1988	71793	1989	58473	9
1989	58473	1990	58738	10
1990	58738			

For 1983-1990 excluding 1988

Regression Outputs:

Constant -6949489
 Std Err of Y Est 4522.651
 R Squared 0.827210
 No. of Observations 7
 Degrees of Freedom 5

X Coefficient(s) 3523.887
 Std Err of Coef. 720.2571

Regression Equation:

$$\text{Visitation} = 3523.887 (\text{Year}) - 6949489$$

Estimate of Visitation in 2040:

$$\begin{aligned} 2040 \text{ Vis.} &= 3523.887(2040) - 6949489 \\ &= 239,240 \text{ people} \end{aligned}$$

1/3

WORKSHEET BESTIMATE OF EVAPOTRANSPIRATION USING THE BLANEY-
CRIDDLE METHOD, CORONADO NATIONAL MONUMENT

$$U = \sum Kf \quad \text{where } f = \frac{tP}{100}$$

where U = consumptive use in inches

K = crop coefficient

t = avg. monthly temperature ($^{\circ}\text{F}$)

P = avg. daytime hrs, % of yr, based on latitude

For CORO, the latitude is approx. $31^{\circ}30'N$ and the length of the growing season extends from approx. Mar. 1 - Oct. 31. A crop coefficient, K , of 0.75 was assumed. An irrigation efficiency of 70% was also assumed.

Month	Avg. Mon. Temp. t , ($^{\circ}\text{F}$) ¹	Avg. Daytime Hrs. % of yr, P ²	Crop Coeff, K ³	Consumptive Use, U (inches)
Mar	52	8.36	0.75	3.76
Apr	59	8.74	0.75	3.87
May	66	9.60	0.75	4.75
Jun	75	9.58	0.75	5.39
Jul	76	9.74	0.75	5.55
Aug	74	9.26	0.75	5.14
Sep	70	8.34	0.75	4.38
Oct	62	7.96	0.75	3.70

Σ 36.04 inches

2/3

Month	Precip(in) ⁴	Eff. Precip(in) ⁵
Mar	1.17	1.10
Apr	0.45	0.43
May	0.25	0.24
Jun	0.53	0.50
Jul	4.79	3.68
Aug	3.66	3.10
Sep	2.19	2.01
Oct	1.55	1.44

$$\Sigma 12.50 \text{ inches}$$

Irrigation Requirement = $36.04 - 12.50 = 23.54$ inches

Assuming 4 lawns of 2800 ft^2 ⁶ are watered with an irrigation efficiency of 70%:

$$\text{Total Water Required} = 4(2800 \text{ ft}^2) \times \left(\frac{1 \text{ acre}}{43560 \text{ ft}^2} \right) \times \left(\frac{23.54 \text{ in}}{12 \text{ in/ft}} \right) \times \left(\frac{1}{0.7} \right)$$

$$= 0.72 \text{ acre-feet}$$

OR 234,896 gallons

Mary Hermes
Research Associate
2/4/90

3/3

REFERENCES

1. Contained in Jan. 9, 1991 Memorandum from Superintendent Coronado National Memorial to Chief, Water Resources Division.
2. United States Department of Agriculture, Soil Conservation Service, Engineering Division, 1967, Irrigation Water Requirements, Technical Release No. 21.
3. United States Department of Agriculture, Agricultural Research Service, 1962, Determining Consumptive Use and Irrigation Water Requirements, Technical Bulletin No. 1275.
4. same as 1.
5. same as 3.
6. same as 1.

REPORT OF TELEPHONE CONVERSATION

DATE Feb. 4, 1991 TIME 11:15 AM/PMPROJECT CORONPS PERSON ON CALL Mary Hermes ☒ I CALLED ☐ S/HE CALLEDPERSON Ed LopezORGANIZATION CORO

ADDRESS _____

TELEPHONE NUMBER 602 - 366 - 5515

DISCUSSION I asked Mr. Lopez about the use of water during the 1988 fire. He said he thought except for their initial loads, all of the water used by the fire tankers came from the memorial's well. He was not there in 1988, but as a guess, he said he thought there were about 20 fire trucks in the park to fight the fire. He said the avg. truck capacity would probably be about 1000 gals, and they filled about 6 times/day for 2 days.

He also mentioned that he was working up a cooperative agreement w/ the Palomares Fire District that will probably include a provision that if necessary the Fire Dept. could use water from the park in fighting fires.

$$20 \text{ trucks} \left(\frac{1000 \text{ gal}}{\text{load} + \text{truck}} \right) \left(\frac{6 \text{ loads}}{\text{day}} \right) (2 \text{ days}) = 240,000 \text{ gals}$$

REPORT OF TELEPHONE CONVERSATION

DATE 1/15/91 TIME 3:30 AM/PM PMPROJECT CORONPS PERSON ON CALL Mary Hermes ☒ I CALLED ☐ S/HE CALLEDPERSON Ed Lopez, SuperintendentORGANIZATION CORO

ADDRESS _____

TELEPHONE NUMBER 602-366-5515

DISCUSSION I had some additional questions for Mr. Lopez. First, I asked about the average hi flow temperatures given on the AVERAGE & EXTREMES page of the info. he sent us. I was wondering what period of record they were calculated over. He said he would check and get back to me. I also asked about the visitation in 1988, being higher than in 1989 & 1990, and I asked if they had changed multiplication factors. He said they had not changed multiplication factors. He also told me there was a big fire at the memorial in 1988, and they had a lot of local visitation after the fire - people wanting to see what it looked like.

I also asked if he had an extra copy of their Statement of Management. He said they did and that he would send one. I asked Mr. Lopez if he knew of anything that would limit the number of visitors to the memorial. He said he couldn't foresee a need to put a cap on visitation in the foreseeable future.

I asked Mr. Lopez about the length of the growing season there, and he said it runs about 2 months, from approx. Mar-Oct.



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE

Coronado National Memorial
Rural Route 2, Box 126
Hereford, Arizona 85615

N16

January 9, 1991

Memorandum

To: Chief, Water Resources Division
Attention: Mary Hurmas, Branch of Water Rights

From: Superintendent, Coronado National Memorial

Subject: Water Rights - Coronado National Memorial

Enclosed is the climatological data that you requested. Some of the data goes back to 1961. I have also enclosed visitation figures for the past several years. While we were not able to find visitation figures for each year, we have provided you what information we could easily obtain.

You wanted to know what information we could get on our domestic water system. We basically have four wells in the memorial. The main well that supplies our headquarters-residential area pumps at an average of 20 gallons per minute. The well is 110 feet deep, with water at the 80 foot level. This well has a 6 inch casing. I understand that this particular well was able to produce only 2 1/2 gallons per minute during a severe drought in 1981. The pump would run 9 minutes and would cut off for approximately 29 minute for recovery. The staff recorded the well as pumping 3,690 gallons during a 24 hour period during this drought period. The storage tank for this water system has a capacity of 50,000 gallons.

There are two wells down-canyon from the headquarters area. One of these is used to water cattle on one of the grazing leases. This particular well is approximately 90 feet deep with the water level at the 45 foot level. The well was recorded as pumping 10 gallons per minute in 1980. The other adjacent well is approximately 125 feet deep with the water level at the 60 foot level. This pump has been recorded as pumping 7 gallons per minute. This well is presently capped.

There is a fourth well in the memorial which is located near the U.S. Mexico border. I believe this well, drilled in 1975, is approximately 750 feet deep. This reportedly pumped at 43

gallons per minute.

You requested information on the size of lawns and gardens that each of the four government quarters have. Each of the four housing units have approximately 2800 square feet of watered area.

I hope that you may find this information useable for the project. Please do not hesitate to call me if there is any other information that you need.

Thank You

A handwritten signature in dark ink, appearing to read 'E. Lopez', with a stylized flourish at the end.

Edward Lopez

AVERAGES AND EXTREMES (1961 to 1989)*

MTH	AVHI	EXT	YR	AVL	EXT	YR	Avg Temp $\frac{AVL+AVHI}{2}$
JAN	58	80	1971	32	6	1971	45
FEB	62	85	1973	34	11	1985	48
MAR	68	86	1989	37	11	1971	52
APR	75	93	1989	43	13	1976	59
MAY	82	100	1984	50	27	1964	66
JUN	91	105	1990	59	41	1963	75
JUL	90	103	1973	62	44	1966	76
AUG	88	100	1962	60	48	1987	74
SEP	84	98	1979	57	38	1985	70
OCT	77	94	1980	48	22	1971	62
NOV	67	85	1974	31	13	1961	49
DEC	59	78	1980	34	1	1978	46

* See routing and transmittal slip from Ed Lopez, CORO to Mary Hermes, Water Resources. 1/15/91

CORONADO NATIONAL MEMORIAL

WEATHER STATISTICS

1961 - 1990

**RECORD HIGH TEMPERATURE: 105 Degrees - June 26, 1970 and
June 25 & 26, 1990**

RECORD LOW TEMPERATURE: 1 Degree - December 8, 1978

RECORD HIGH PRECIPITATION IN ONE YEAR: 1978: 32.88 inches.

RECORD LOW PRECIPITATION: 1989: 9.97 inches.

Elevation of Weather Station: 5,230 ft.

Latitude: 31N26

Longitude: 110W12

CORONADO NATIONAL MEMORIAL - WEATHER RECORDS: 1985 - 1990

YEAR	MTH	AVHI	EXHI	AVLO	EXLO	PREC	YEAR	MTH	AVHI	EXHI	AVLO	EXLO	PREC
1985	JAN	55	70	31	21	4.89	1988	JAN	57	70	32	13	2.17
	FEB	61	79	30	11	2.12		FEB	63	74	35	23	.51
	MAR	69	82	37	23	.62		MAR	68	85	36	22	.78
	APR	76	87	44	33	2.22		APR	73	83	41	27	1.23
	MAY	83	91	51	42	.03		MAY	83	92	50	34	0
	JUN	94	102	60	45	.39		JUN	91	98	59	51	.57
	JUL	90	102	63	57	4.62		JUL	88	92	62	56	7.70
	AUG	86	97	60	54	3.53		AUG	83	89	61	57	3.34
	SEP	83	93	54	38	2.46		SEP	82	90	56	44	3.11
	OCT	73	85	46	39	4.66		OCT	77	84	51	46	3.31
	NOV	63	76	39	23	2.38		NOV	66	80	38	24	.89
	DEC	59	72	31	18	.45		DEC	56	68	31	13	.41
TOTAL PRECIPITATION: 28.37							TOTAL PRECIPITATION: 24.02						
1986	JAN	63	72	36	28	.23	1989	JAN	53	62	31	18	1.64
	FEB	63	79	37	17	2.65		FEB	65	78	37	26	.03
	MAR	67	79	41	28	2.29		MAR	73	86	43	22	.69
	APR	75	84	48	31	.12		APR	81	93	49	29	0
	MAY	82	92	52	35	.73		MAY	86	97	52	34	.37
	JUN	86	96	60	51	2.19		JUN	83	103	59	50	.03
	JUL	85	100	61	54	3.71		JUL	92	102	63	57	1.36
	AUG	84	94	61	57	6.71		AUG	86	89	60	55	3.10
	SEP	81	89	56	44	.84		SEP	87	91	58	46	.26
	OCT	73	80	47	37	.38		OCT	75	85	48	31	1.98
	NOV	63	73	40	28	1.03		NOV	67	76	40	23	0
	DEC	55	70	33	19	3.95		DEC	59	72	31	22	.51
TOTAL PRECIPITATION: 24.83							TOTAL PRECIPITATION: 9.97						
1987	JAN	56	75	31	9	1.13	1990	JAN	58	72	31	16	.85
	FEB	57	71	34	21	2.28		FEB	59	74	31	12	1.50
	MAR	63	74	35	25	1.03		MAR	68	80	39	23	.32
	APR	74	86	44	29	1.97		APR	76	86	46	34	.31
	MAY	77	84	49	42	.93		MAY	81	95	52	36	.44
	JUN	91	95	58	51	.59		JUN	95	105	65	50	.75
	JUL	90	97	63	57	3.61		JUL	85	96	63	55	5.65
	AUG	84	89	59	48	5.74		AUG	83	90	59	55	3.22
	SEP	81	87	56	48	2.69		SEP	82	94	58	53	2.64
	OCT	78	87	53	44	.63		OCT	76	80	48	38	1.35
	NOV	64	73	39	23	.10		NOV	65	77	41	24	.91
	DEC	57	77	31	9	3.21		DEC	55	67	34	13	2.39
TOTAL PRECIPITATION: 23.88							TOTAL PRECIPITATION: 21.9						
TTL	JAN	57	70.2	32	17.5	1.82							
AVG	FEB	61.3	75.8	34	18.3	1.52							
1985	MAR	68	81	38.5	23.8	.96							
TO	APR	75.8	86.5	45.3	30.5	.98							
1990	MAY	82	91.8	51	37.2	.42							
	JUN	90	98.7	60.2	49.7	.75							
							JUL	88.3	98.2	62.5	56	4.44	
							AUG	84.3	91.3	60	54.3	4.27	
							SEP	82.6	90.6	56.3	45.5	2.00	
							OCT	75.3	83.5	48.8	39.1	2.05	
							NOV	64.7	75.8	39.5	24.2	.89	
							DEC	56.8	71	31.8	15.7	1.82	

TOTAL AVERAGE RAINFALL: 1985 - 1990 = 21.9

Avg Precip? (1961-1990)

Mar - 1.17 inches
Apr - 0.45 inches
May - 0.25 inches
Jun - 0.53 inches
July - 4.79 inches

Aug - 3.66 inches
Sep - 2.19 inches
Oct - 1.55 inches
Annual - 20.57 inches

CORONADO NATIONAL MEMORIAL - WEATHER RECORDS: 1979 - 1984

YEAR	MTH	AVHI	EXHI	AVLO	EXLO	PREC	YEAR	MTH	AVHI	EXHI	AVLO	EXLO	PREC
1979	JAN	52	63	31	11	4.92	1982	JAN	59	74	34	20	2.37
	FEB	62	78	35	18	.52		FEB	64	78	36	22	.50
	MAR	66	77	36	25	1.51		MAR	69	80	38	23	.80
	APR	77	85	43	29	0		APR	86	78	43	32	0
	MAY	80	90	50	31	.55		MAY	80	94	50	39	1.07
	JUN	90	100	60	48	.10		JUN	91	102	60	51	.02
	JUL	91	104	64	53	4.61		JUL	91	100	63	57	3.14
	AUG	89	97	60	53	1.21		AUG	88	93	61	56	4.82
	SEP	84	98	58	49	.62		SEP	82	95	58	53	3.63
	OCT	83	92	51	29	0		OCT	79	88	46	33	0
	NOV	66	75	36	17	.26		NOV	63	75	40	28	1.72
	DEC	62	75	33	21	.26		DEC	54	71	31	18	5.57
TOTAL PRECIPITATION: 14.56							TOTAL PRECIPITATION: 23.64						
1980	JAN	59	72	35	22	1.13	1983	JAN	59	69	32	18	2.83
	FEB	64	80	38	22	2.99		FEB	61	74	34	24	2.59
	MAR	65	74	37	26	.98		MAR	63	77	36	27	5.13
	APR	73	87	42	28	.05		APR	68	79	40	26	.59
	MAY	80	91	48	40	.03		MAY	81	94	48	32	0
	JUN	99	104	60	51	.61		JUN	88	94	56	50	0
	JUL	95	101	65	56	2.01		JUL	91	100	63	59	3.11
	AUG	89	98	61	56	2.78		AUG	88	95	61	53	3.06
	SEP	89	97	58	53	.24		SEP	85	97	60	52	5.59
	OCT	77	94	47	33	.05		OCT	73	83	50	44	2.87
	NOV	68	82	38	25	.01		NOV	64	75	38	21	2.11
	DEC	66	78	39	24	.32		DEC	61	73	37	23	1.16
TOTAL PRECIPITATION: 11.20							TOTAL PRECIPITATION: 29.04						
1981	JAN	59	74	37	25	1.64	1984	JAN	59	69	33	22	2.77
	FEB	65	77	37	18	1.77		FEB	64	73	30	21	0
	MAR	64	75	37	30	1.93		MAR	71	79	38	22	0
	APR	77	85	52	32	.21		APR	74	86	43	24	.99
	MAY	80	87	53	43	.78		MAY	88	100	57	40	.19
	JUN	88	102	61	53	1.03		JUN	89	95	58	51	.69
	JUL	89	100	63	58	7.07		JUL	88	96	57	48	6.19
	AUG	87	96	61	56	1.69		AUG	84	95	56	52	6.50
	SEP	87	93	58	51	1.05		SEP	85	89	54	45	2.15
	OCT	75	81	49	36	2.03		OCT	69	77	44	38	2.71
	NOV	71	82	40	25	.79		NOV	67	82	37	24	1.37
	DEC	64	72	34	21	0		DEC	58	71	33	20	6.95
TOTAL PRECIPITATION: 19.99							TOTAL PRECIPITATION: 30.51						
TTL	JAN	57.8	70.2	33.7	19.7	2.61		JUL	90.8	100	62.5	55.2	4.36
AVG	FEB	63.3	76.7	35	20.8	1.40		AUG	87.5	95.7	60	54.3	3.34
1979	MAR	66.3	77	37	25.5	1.73		SEP	85.3	94.8	57.7	50.5	2.21
TO	APR	75.8	83.3	43.8	28.5	.31		OCT	76	85.8	47.8	36.5	1.28
1984	MAY	81.5	92.7	51	37.5	.44		NOV	66.5	78.5	38.2	23.3	1.04
	JUN	90.8	99.5	59.2	50.7	.41		DEC	60.8	73.3	34.5	21.2	2.51

TOTAL AVERAGE RAINFALL: 1979 - 1984 = 21.64 IN PER YEAR

6 yrs.

CORONADO NATIONAL MEMORIAL - WEATHER RECORDS: 1973 - 1978

YEAR	MTH	AVHI	EXHI	AVLO	EXLO	PREC	YEAR	MTH	AVHI	EXHI	AVLO	EXLO	PREC
1973	JAN	54.2	68	30.3	16	1.03	1976	JAN	61	71	28	13	.55
	FEB	59.2	85	34	26	3.62		FEB	64	77	36	26	3.28
	MAR	58.2	71	34.1	21	3.72		MAR	67	78	35	21	.40
	APR	67.4	89	40.2	29	0		APR	73	83	41	13	.92
	MAY	77	92	47.1	34	.53		MAY	82	92	48	39	.20
	JUN	91.2	103	59.2	53	.55		JUN	93	100	58	48	.11
	JUL	89.2	103	62.1	52	4.87		JUL	87	97	61	56	5.79
	AUG	90	98	60.1	54	1.66		AUG	89	94	61	51	1.43
	SEP	86.1	96	55.1	44	.18		SEP	82	89	55	48	1.19
	OCT	81	90	49	34	0		OCT	72	83	45	26	.53
	NOV	69.2	85	41.1	22	.58		NOV	64	77	37	20	1.44
	DEC	63	74	27	20	0		DEC	58	68	23	32	.42
TOTAL PRECIPITATION: 16.74						TOTAL PRECIPITATION: 16.26							
1974	JAN	59.2	76	34.1	19	2.82	1977	JAN	56	69	32	19	2.48
	FEB	63.8	76	30.8	19	0		FEB	66	78	32	20	0
	MAR	70.8	86	38.8	22	.47		MAR	64	77	34	23	.34
	APR	76.6	85	42.4	34	.01		APR	75	85	30	27	.47
	MAY	85.1	97	51.3	38	.03		MAY	79	99	49	37	.06
	JUN	97.1	104	63.3	50	.01		JUN	93	101	59	51	.23
	JUL	88.2	95	60.9	58	5.49		JUL	90	98	63	58	5.68
	AUG	87	95	59	52	1.84		AUG	89	95	63	58	4.47
	SEP	83.6	96	56.3	45	2.60		SEP	86	91	59	47	1.86
	OCT	76	85	46.1	28	2.35		OCT	76	91	51	42	5.93
	NOV	69	78	37	25	.45		NOV	69	80	40	32	1.56
	DEC	61.3	70	22.2	8	.39		DEC	64	74	37	30	1.06
TOTAL PRECIPITATION: 16.46						TOTAL PRECIPITATION: 23.14							
1975	JAN	60	77	30	18	1.78	1978	JAN	58	71	34	18	3.61
	FEB	60.8	75	31	13	.31		FEB	59	70	33	28	3.53
	MAR	67	78	36	23	1.26		MAR	66	81	39	28	2.30
	APR	70	80	40	26	1.10		APR	75	84	44	30	0
	MAY	80	89	47	29	0		MAY	82	93	50	36	.47
	JUN	91	100	57	49	0		JUN	95	101	63	49	.96
	JUL	84	96	58	56	6.85		JUL	92	100	62	57	5.46
	AUG	89	97	59	55	1.99		AUG	88	92	60	54	2.11
	SEP	82	94	55	44	4.48		SEP	84	91	57	50	.63
	OCT	77	87	46	34	0		OCT	78	89	51	37	3.55
	NOV	69	80	35	20	1.07		NOV	64	76	42	27	3.38
	DEC	61	74	31	20	.50		DEC	55	68	31	1	6.88
TOTAL PRECIPITATION: 19.34						TOTAL PRECIPITATION: 32.88							
TTL	JAN	58.1	72	31.3	17.2	2.05	JUL	88.4	98.2	61.2	56.2	5.69	
AVG	FEB	62.1	76.8	32.8	22	1.79	AUG	88.7	95.2	60.3	54	2.25	
1973	MAR	65.5	78.5	36.2	23	1.42	SEP	84	92.8	56.2	46.3	1.82	
TO	APR	72.8	84.3	39.5	26.5	.42	OCT	76.7	87.5	48	33.5	2.06	
1978	MAY	80.9	93.6	48.7	35.5	.22	NOV	67.3	79.3	36.2	24.3	1.25	
	JUN	93.1	102	59.8	50	.31	DEC	60.3	71.3	28.5	18.5	1.54	

TOTAL AVERAGE RAINFALL: 1973 - 1978 = 20.82 IN PER YEAR

64 yrs

CORONADO NATIONAL MEMORIAL - WEATHER RECORDS: 1967 - 1972

YEAR	MTH	AVHI	EXHI	AVLO	EXLO	PREC	YEAR	MTH	AVHI	EXHI	AVLO	EXLO	PREC
1967	JAN	62.2	77	31.2	18	.10	1970	JAN	60.1	78	29.8	15	.13
	FEB	65.0	78	34	25	.28		FEB	64.8	74	36	25	.76
	MAR	73.0	82	41	24	.16		MAR	63.1	75	32.1	25	2.21
	APR	71.0	83	42	26	.33		APR	71.4	79	39.2	23	.57
	MAY	82.0	92	49	30	.19		MAY	84.9	97	51.5	32	.04
	JUN	87.8	96	57.7	45	1.51		JUN	91.9	105	58.8	47	.51
	JUL	87.9	99	61.5	56	8.76		JUL	92.2	100	62.4	58	3.72
	AUG	86.2	92	59.7	55	2.67		AUG	87.1	93	59.4	56	6.58
	SEP	83.1	89	55.2	48	3.11		SEP	81.8	93	55.6	42	3.20
	OCT	80.2	93	48	34	.39		OCT	74.6	81	42.8	29	.26
	NOV	69.8	80	42.4	30	1.15		NOV	70.2	78	38.7	27	.16
	DEC	53.2	65	31.3	20	6.28		DEC	63.1	78	34.6	21	.67
TOTAL PRECIPITATION: 24.83							TOTAL PRECIPITATION: 18.81						
1968	JAN	57.2	69	34	25	1.37	1971	JAN	61.8	80	31	6	.18
	FEB	62.0	77	37	26	2.49		FEB	62.7	77	31.3	14	1.10
	MAR	63.3	78	37	21	2.74		MAR	73	85	34.6	11	0
	APR	70.8	81	39.2	22	.71		APR	74.7	88	41.2	27	.68
	MAY	82	95	45.5	36	.01		MAY	79	89	48.9	34	0
	JUN	90	104	57.2	43	.16		JUN	91.3	103	57.8	47	.48
	JUL	92	97	60	55	3.61		JUL	93.3	103	64.8	49	5.87
	AUG	84.3	91	57.8	53	5.13		AUG			58.8	49	3.37
	SEP	81.3	93	55.3	46	.95		SEP	84.9	93	57.1	45	2.39
	OCT	81.4	86	49.4	34	.09		OCT	70.2	80	44.5	22	3.85
	NOV	65.9	77	35.4	22	.60		NOV	66.7	80	39.5	25	.58
	DEC	59.8	71	30	11	1.35		DEC	56.1	76	33.1	21	1.64
TOTAL PRECIPITATION: 16.59							TOTAL PRECIPITATION: 20.14						
1969	JAN	62.4	77	36.6	20	1.24	1972	JAN	62.3	73	32.1	16	0
	FEB	59.9	70	32.8	17	.82		FEB	67.2	80	35.9	22	0
	MAR	64.7	85	33.2	15	.95		MAR	76.3	84	43	24	.05
	APR	78	87	44	31	.03		APR	79.1	89	44.6	29	.07
	MAY	84.3	98	50.8	29	.53		MAY	82.1	88	49.2	41	.24
	JUN	90.3	104	59.2	51	.21		JUN	89.3	100	57.2	49	2.59
	JUL	89.2	102	61.2	59	4.04		JUL	91	101	62	56	4.29
	AUG	91.4	97	63	57	3.10		AUG	87.3	99	60.1	54	3.79
	SEP	84.2	93	57.8	52	2.69		SEP	80.2	90	56.1	50	1.66
	OCT	76.4	87	48.1	33	0		OCT	75	92	49.2	30	4.10
	NOV	57.8	76	38.6	28	1.23		NOV	60.3	73	33.3	22	2.01
	DEC	60.6	74	34.9	17	1.75		DEC	57.3	71	31.2	18	0
TOTAL PRECIPITATION: 19.21							TOTAL PRECIPITATION: 18.80						
TTL	JAN	61	75.7	32.5	16.7	.50		JUL	90.9	100	62	55.5	5.05
AVG	FEB	63.6	76	34.5	21.5	.91		AUG	87.3	94.4	59.8	54	4.11
1967	MAR	73.9	81.5	36.8	20	1.02		SEP	82.6	91.8	56.2	47.2	2.30
TO	APR	74.2	84.5	41.7	26.3	.40		OCT	76.3	86.5	47	30.3	1.45
1972	MAY	82.4	93.2	49.2	33.6	.17		NOV	65.1	77.3	38	25.7	.96
	JUN	90.1	102	58	47	.91		DEC	58.4	72.5	38.8	18	1.95

TOTAL AVERAGE RAINFALL 1967 - 1972 = 19.73 IN PER YEAR

6 yrs

CORONADO NATIONAL MEMORIAL - WEATHER RECORDS: 1961 - 1966

YEAR	MTH	AVHI	EXHI	AVLO	EXLO	PREC	YEAR	MTH	AVHI	EXHI	AVLO	EXLO	PREC
1961	JAN	56.0	65	33.8	26	1.76	1964	JAN	56.4	67	28.7	12	.47
	FEB	62.8	77	34.0	21	.31		FEB	51.9	73	25.5	17	.23
	MAR	68.8	79	36.3	29	.16		MAR	62.7	79	32.0	19	1.92
	APR	77.7	89	46.1	30	0		APR	71.2	84	35.5	18	.37
	MAY	81.1	90	49.7	40	0		MAY	83.6	95	48.6	27	0
	JUN	93.4	101	59.4	50	.79		JUN	89.4	97	57.4	46	.07
	JUL	91.9	99	61.4	55	2.84		JUL	91.9	101	62.8	56	4.09
	AUG	96.9	96	61.3	56	3.62		AUG	84.5	94	60.3	52	7.51
	SEP	83.4	92	56.9	52	1.71		SEP	79.7	86	56.2	48	3.74
	OCT	76.6	87	48.6	33	2.16		OCT	78.	77	48.9	41	1.55
	NOV	61.3	76	37.7	13	1.03		NOV	65.6	77	35.8	22	1.34
	DEC	54.0	70	33.7	25	5.15		DEC	59.7	71	33.9	22	.40
	TOTAL PRECIPITATION:					19.53		TOTAL PRECIPITATION:					21.69
1962	JAN	58.8	69	30.9	6	3.27	1965	JAN	61.0	71	33.5	22	1.75
	FEB	62.8	78	34.3	17	.28		FEB	59.3	77	32.0	13	.71
	MAR							MAR	63.3	78	35.0	17	1.09
	APR	76.4	90	46.7	36	.02		APR	74.3	93	42.3	32	.17
	MAY	81.8	90	48.8	36	0		MAY	80.4	92	49.6	34	.02
	JUN	90.7	101	57.4	45	.28		JUN	87.5	98	55.5	45	.23
	JUL	89.1	97	62.2	59	3.08		JUL	89.7	100	61.6	56	6.31
	AUG	95.9	100	62.2	57	1.91		AUG	88.8	95	59.9	54	3.19
	SEP	86.2	95	59.2	50	1.42		SEP	82.1	98	54.4	59	1.40
	OCT	77.5	90	49.8	38	.93		OCT	80.8	92	48.5	31	0
	NOV	71.1	84	44.3	26	.56		NOV	70.4	78	43.7	30	.41
	DEC	59.5	70	36.2	28	2.44		DEC	56.5	70	35.5	12	1.67
	TOTAL PRECIPITATION:					14.19		TOTAL PRECIPITATION:					16.95
1963	JAN	56.7	73	32.9	13	1.22	1966	JAN	54	41	28	21	1.82
	FEB	66.2	79	36.1	20	1.51		FEB	55	68	29	19	2.06
	MAR	71.0	82	37.6	26	.32		MAR	69	78	38	19	.06
	APR	73.6	91	41.9	27	.30		APR	72.3	84	43	28	0
	MAY	86.6	93	54.1	43	.03		MAY	84	91	53	36	.04
	JUN	90.3	102	56.4	41	.03		JUN	90.1	100	59.3	51	.19
	JUL	91.5	100	63.7	58	4.93		JUL	91.2	100	61.1	44	5.2
	AUG	84.8	90	61.0	56	4.29		AUG	84.2	90	60.1	56	5.37
	SEP	85.3	92	57.2	43	3.02		SEP	80.2	90	56.2	49	4.30
	OCT	79.5	88	51.6	41	.82		OCT	76.5	71	47.5	34	0
	NOV	66.1	80	39.7	26	2.26		NOV	68	80	42	28	.33
	DEC	59.9	71	32.0	25	.67		DEC	59.5	73	32.1	15	.60
	TOTAL PRECIPITATION:					19.4		TOTAL PRECIPITATION:					19.97
TTL	JAN	57.2	64.3	31.3	16.7	1.72		JUL	90.9	99.5	62.1	54.7	4.41
AVG	FEB	59.7	75.3	31.8	17.8	.85		AUG	89.2	94.2	60.8	55.2	4.32
1961	MAR	67.0	79.2	35.8	22.0	.71		SEP	82.8	92.2	56.7	50.2	2.60
TO	APR	74.3	88.5	42.6	28.5	.14		OCT	78.2	84.2	49.2	36.3	.90
1966	MAY	82.9	91.8	50.6	36.0	.02		NOV	67.1	79.2	40.5	24.2	.99
	JUN	90.2	99.8	57.6	46.3	.27		DEC	58.2	70.8	33.9	21.2	1.82

TOTAL AVERAGE RAINFALL 1961 - 1966 = 18.76 IN PER YEAR

6 yrs

REPORT OF TELEPHONE CONVERSATION

DATE 1/7/91 TIME 10:00 AM/PMPROJECT CORONPS PERSON ON CALL Mary Hermes ☒ I CALLED ☐ S/HE CALLEDPERSON Ed Lopez, SuperintendentORGANIZATION Coronado National MemorialADDRESS RR 2, Box 126, Hereford, AZ 85615TELEPHONE NUMBER 602 - 366 - 5515DISCUSSION I called Mr. Lopez for information related to future water needs. He gave me the following information:

There are 6 employees at the memorial presently, 4 full-time and 2 seasonal. They hope to add to permanent positions (change over the 2 seasons) and then add 1 seasonal -- for a total of 7 employees within the next year.

They have year-round living quarters for 4 families. Right now they have 7 families living in the quarters. All of the residences have small lawns and gardens.

Their visitor facilities include a visitor center w/ restrooms, a large picnic area which can accommodate about 50 people - also w/ restrooms, and water fountain at Montezuma overlook to which they haul water.

The memorial has a maintenance area w/ repair facilities at which vehicles can be washed. There are 2 full-time maintenance people and there are restroom facilities at the maintenance area.

They have 2 wells, but primarily use 1 well. They also have a water storage tank.

(cont. on
back)

TO OTHER
TELEPHONE
CONFERENCE
I asked if he could send us information on visitation and water use. He said he would send us what they have.

I talked to Mr. Lopez again at approx. 11:15 a.m. on 1/7/91 and I also asked him to send us information on the size of the lawns & gardens at the residences and climatological data.

REPORT OF TELEPHONE CONVERSATION

DATE 11-3-89 TIME 3:30 AM/PM AM

PROJECT MEVE

NPS PERSON ON CALL Mary Hermes

☒ I CALLED ☐ S/HE CALLED

PERSON Mike Snyder

ORGANIZATION NPS RMR

ADDRESS _____

TELEPHONE NUMBER 303-969-2878

DISCUSSION I asked Snyder if visitation projections
are normally only made based on the last
10 yrs. of visitation. He said normally, yes,
they only have the last 10 yrs. of record
stored in the computer. He also said if you go
beyond 10 yrs. the situation is so different, it
just wouldn't make sense.

Other Supporting Information

W.F. Hansen
Owen Williams
Dan B. Kimbrell

May 26, 1995

L54(479)
CORO/SAGU Water Rights

Memorandum

To: Regional Director, Western Region
From: Chief, Water Resources Division
Subject: Trip Report for Travel to Coronado National Memorial on May 1-2, 1995

The attached trip report concerns travel by Bill Hansen and Larry Martin to Coronado National Memorial (CORO). The purpose of their trip was to (1) resolve differences in National Park Service and Forest Service water rights claims for the San Pedro River Adjudication with park staff and representatives from the Coronado National Forest and the Department of Justice, (2) discuss the withdrawal of objections filed by a prior owner of CORO land, and (3) to conduct a field reconnaissance of wells to determine the need for groundwater monitoring.

If you have any questions, please contact Bill Hansen at (970)225-3532.

Attachment

cc: CORO - Superintendent
SAGU - Superintendent, Wessner
SOAR - Davis
Southwest Cluster - Kunkle
SOL - Swan
DoJ - DuBois
FS - LeFevre

May 26, 1995

L54(479)
CORO/SAGU Water Rights

Memorandum

To: Chief, Water Resources Division
Through: Chief, Water Rights Branch
From: Bill Hansen, Hydrologist, Water Rights Branch
Subject: Trip Report for Travel to Coronado National Memorial on May 1-2, 1995

PURPOSES: (1) To resolve differences in National Park Service (NPS) and Forest Service water rights claims for the San Pedro River Adjudication with park staff and representatives from the Coronado National Forest (CNF) and the Department of Justice (DoJ), (2) discuss the withdrawal of claims filed by a prior owner of Coronado National Memorial (CORO) land, (3) and to conduct a field reconnaissance of wells to determine the need for groundwater monitoring.

ITINERARY: Hansen departed Ft. Collins, CO., on April 30, 1995 and returned on May 2, 1995. Martin departed Ft. Collins, CO., on May 1, 1995 and returned on May 2, 1995.

CONTACTS:

Ed Lopez, Superintendent, CORO
Bill Smith, Ranger, CORO
Scott Sticha, Ranger, CORO
Robert LeFevre, Hydrologist, CNF
Jim DuBois, Attorney, DoJ
Margaret Baumkirchner, Ex-landowner and grazing permittee

DISCUSSION:

On May 1, 1995, I met with Lopez, Smith, LeFevre, and DuBois, to review and resolve duplicate water rights claims filed by the CNF and NPS in the San Pedro River Adjudication. The Special Master in the San Pedro River Adjudication has ordered the United States to evaluate duplicate claims, and meet with objectors to NPS claims, to

determine if objections can be resolved. The DoJ is then ordered to prepare a summary of NPS water right claims and issues which may move forward for litigation.

Many of the NPS water sources were acquired from the Forest Service. Duplicate claims for water sources were filed by the CNF and the NPS while the grazing allotments were jointly managed. The responsibility for managing grazing has since been transferred to the NPS. Legal locations were reviewed by the group to resolve conflicts and to determine which agency should hold the water rights claim. The attached table displays a summary of the agreed upon locations, claim numbers, date Statement of Claimant (SOC) filed, priority date, and type of use. The group identified duplicate claims for Brown Allotment well, Joe's Spring #3 (aka Unnamed spring), and Hazel well (aka Mine Shaft or Shift well). It was agreed the CNF would withdraw claims to the three water sources because they are located on NPS lands.

DuBois, LeFevre, and I then discussed Turkey Creek Spring located in the Rincon Mountain Unit of SAGU. Staff from SAGU were invited to the meeting but declined due to conflicting schedules. Five claims were filed by the United States in the San Pedro River Adjudication for water sources located in SAGU. Even though the spring is located on NPS lands, the claim for Turkey Creek Spring was filed by the CNF for livestock and wildlife purposes for use on the Happy Valley grazing allotment. No claim was filed by the NPS. There has been a long standing dispute between the CNF and NPS as to whether the grazing permittee could be authorized to continue using the spring. The CNF has argued that the use has occurred for years and should continue. The NPS has argued that the use is in violation of NPS policy and legislative authorities and could not continue after 1993.

According to Meg Wessner at SAGU, the permittee has not used the spring and diversion system since 1992-93. In addition, LeFevre stated that a fire in 1994 damaged the pipeline prohibiting use without substantial repairs. As a result of the fire, the pasture historically containing the livestock drinker is now fenced to eliminate grazing while the area is revegetated. LeFevre said the CNF is considering alternative water sources (including pumping water from a well to the pasture) which would eliminate the need for water from Turkey Creek Spring. The CNF would like to use the fenced area as a separate pasture in the future if water is available; if water is not available or developed, grazing will be discontinued. DuBois, LeFevre and I agreed that the claim would be assigned to the NPS because the spring is located in SAGU.

DuBois, Lopez and I then discussed CORO's present and future administrative water needs and how they would be claimed in the Adjudication. I agreed to review consumptive use computations prepared by the Water Rights Branch and amend the claim if necessary. DuBois will review the information and determine how to claim administrative uses in the San Pedro River Adjudication. It was agreed that Headquarters Well (the primary water source for CORO) captures percolating groundwater and therefore, should not be considered in the Adjudication. We discussed the potential for amending the NPS claim for the three springs to include a Federal reserved water right for present and future

administrative purposes. Such a claim would provide flexibility for change applications in the future.

After lunch, Lopez, DuBois and I met with Mrs. Baumkirchner to discuss the Adjudication process and conflicting claims for 3 wells previously owned by the Baumkirchners. The wells (Baumkirchner #2 and #3, and Zalesk) were located on lands purchased by the NPS on March 20, 1980. The Baumkirchner's filed SOC's in 1982 and did not withdraw their claims or assign the claims to the NPS when the land was transferred. It was agreed that the NPS should claim the wells and would assist Mrs. Baumkirchner in preparing a draft letter to the Arizona Department of Water Resources (ADWR) notifying them of the circumstances and intent to withdraw the claims.

On May 2, I was joined by Larry Martin, Water Operations Branch, and met with Lopez, Smith, and Sticha. The purpose of the meeting was to discuss CORO's concerns regarding increased groundwater development on the park's east boundary. The park is concerned that this development will impact resource values in CORO, including the Headquarters well (the primary water source for CORO).

We discussed available information including well logs, local and regional geology and hydrogeology, and park water needs. An initial review of facts indicate that the topographic position of the park and water sources minimizes the potential for impacts from groundwater development. It appears that much of the groundwater is derived from precipitation and local runoff in the headwaters of CORO. The group agreed a monitoring program would be beneficial to collect baseline data, confirm the direction of groundwater movement, correlate groundwater levels with precipitation, and assess future impacts of development. The group conducted a field reconnaissance of wells in CORO (see attached table), except for the Coronado well #4 and wells on the Richard's property, to assess the potential for measuring static water levels. Depth to water was measured, where possible, for each well. It was agreed that the WRD would review available information and provide CORO with a groundwater monitoring plan.

Action Items:

- 1) Update the water rights dockets and work with the DoJ in preparing a response and status report for the Court in the San Pedro River Adjudication. Responsible party - Hansen. Completed.
- 2) Review the CORO's present and future consumptive use computations and amend the water rights claim if necessary. Responsible party - Hansen. Completed.

- 3) Prepare a draft letter for the Baumkirchner's to the ADWR which notifies them of their intent to withdraw their SOC's for wells purchased by the NPS. Responsible party - Hansen. Completed.
- 4) Send DuBois information and legislation regarding the sale and lease of water by the NPS. Also send DuBois copies of the Environmental Assessment and correspondence regarding the FS's use of Turkey Creek Spring. Responsible party - Hansen. To be completed by May 31, 1995.
- 5) Provide copies of each water right docket to CORO. Responsible party - Hansen. Completed.
- 6) Prepare a groundwater monitoring plan for CORO to monitor long-term impacts of nearby development. Responsible party - Martin. To be completed by May 31, 1995.

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CORONADO NAT MEM

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IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
Coronado National Memorial
4101 E. Montezuma Canyon Road
Hereford, Arizona 85615



TELEFAX MESSAGE

DATE: 5/9/95 Number of Pages: 4

To: Bill Hansen From: Ed Lopez

Subject: CORO written Rights

Coro Contact Numbers: Phone (602) 366-5515 Fax (602) 366-5705

COMMENTS:

Bill:

We made a few changes, hopefully got legal locations better defined, also located Hazel well on map closer to actual site, your map had it in wrong canyon.

If anything look funny, please call me. If I'm not in, please ask for Bill or Scott as all three of us came up with these changes.

Thanks

Ed Lopez



CORONADO NATIONAL MEMORIAL SUMMARY CORRECTIONS**MAY 9, 1995**

WATER SOURCE	LEGAL LOCATION
Brown Allotment Spring	SENE 7 (24S21E)
Joe's Spring # 3	SENE 12 (24S20E)
Tunnel Mine Spring	SENWSE 11 (24S20E)
Hazel Well	SENE 11 (24S20E)

Note:

Baumkirchner Well # 3 - maybe we should identify it as in use for stock as when the permittee does the required repairs and stock the pasture, we will turn on the pump and began watering cattle. We may even go so far as to say that it's a backup water supply for park operations, however for now we would have to truck the water to the Hqts area. More than likely, we probably should at least say it's stock use for now. Your call.

Docket Information

Number of Documents in Docket 125

Documents Dated from 11/30/1981 to 3/9/2004

Docket Compiled: 3/16/2012