

# TABLES

**TABLE 3-1. TYPES OF FEDERAL RESERVED WATER RIGHTS CLAIMS**

	<b>SURFACE WATER</b>	<b>GROUNDWATER<sup>1</sup></b>
<b>RIGHTS EXERCISED ACROSS CONTINUOUS AREAS</b>	Streamflows	Groundwater Use by Riparian Vegetation
<b>RIGHTS EXERCISED FROM DISCRETE LOCATIONS<sup>2</sup></b>	Flows from Springs Flows from Seeps Water in Ponds Water in Small Impoundments (Tanks)	Small Capacity Well Pumpage Large Production Well Pumpage

Notes:

<sup>1</sup> "Groundwater" refers to subsurface water.

<sup>2</sup> Referred to in Third Amended SOC as "point" sources.

**TABLE 3-2. SUMMARY OF CLAIMED STREAMFLOW QUANTITIES**

	<b>San Pedro River at Palominas</b>	<b>San Pedro River at Charleston</b>	<b>San Pedro River near Tombstone</b>	<b>Babocomari River within SPRNCA</b>
	<b>Acre-Feet</b>	<b>Acre-Feet</b>	<b>Acre-Feet</b>	<b>Acre-Feet</b>
<b>January</b>	250	1050	1045	80
<b>February</b>	194	900	1065	85
<b>March</b>	160	920	985	75
<b>April</b>	35	650	655	50
<b>May</b>	12	430	390	32
<b>June</b>	6	200	0	8
<b>July</b>	245	950	800	65
<b>August</b>	1550	3,100	2,155	200
<b>September</b>	180	830	595	60
<b>October</b>	18	500	255	30
<b>November</b>	70	700	595	50
<b>December</b>	180	920	860	65
<b>Total Median Monthly Streamflow</b>	2,900	11,150	9,400	800
<b>Median Annual Streamflow</b>	15,900	28,000	30,200	2,015

**TABLE 3-3. COMPARISON OF 1954-1989 SEASONAL PERCENTAGES OF ANNUAL VOLUMES WITH MORE RECENT MEASUREMENTS**

		Winter	Spring	Summer	Fall
San Pedro River at Palominas	1954-1989	21	2	68	9
	1977-2011	24	3	67	6
San Pedro River at Charleston	1954-1989	33	14	34	19
	1977-2011	26	11	44	19
San Pedro River near Tombstone	1967-1986	29	9	39	17
	1996-2011	33	8	57	6
Babocomari River within SPRNCA	2000-2011	45	24	10	21
Walnut Gulch within SPRNCA	1956-1988	0	1	97	2

**TABLE 3-4. COMPARISON OF FLOOD FREQUENCIES BASED ON 1954-1989 STREAMFLOW WITH MORE RECENT MEASUREMENTS**

		<b>1.5-yr Streamflow (cfs)</b>	<b>2-yr Streamflow (cfs)</b>	<b>5-yr Streamflow (cfs)</b>
<b>San Pedro River at Palominas</b>	<b>1954-1989</b>	<b>3,922<sup>1</sup></b>	<b>5,159</b>	<b>8,571</b>
	<b>1977-2011</b>	<b>3,315</b>	<b>4,693</b>	<b>8,972</b>
<b>San Pedro River at Charleston</b>	<b>1954-1989</b>	<b>4,530</b>	<b>5,723</b>	<b>9,439</b>
	<b>1977-2011</b>	<b>2,574</b>	<b>3,920</b>	<b>8,472</b>
<b>San Pedro River near Tombstone</b>	<b>1967-1986</b>	<b>5,220</b>	<b>7,125</b>	<b>12,510</b>
	<b>1977-2011<sup>2</sup></b>	<b>3,187</b>	<b>4,716</b>	<b>9,781</b>

Notes:

<sup>1</sup> On average, a streamflow of 3,922 cfs would be expected to be met or exceeded once every 18 months.

<sup>2</sup> 1987-1996 absent

**TABLE 3-5. COMPARISON OF 1954-1988 MEDIAN ANNUAL AND MONTHLY VOLUMES WITH MORE RECENT MEASUREMENTS**

	San Pedro River at Palominas		San Pedro River at Charleston		San Pedro River near Tombstone		Babocomari River within SPRNCA	
	Claim	1977-2011	Claim	1977-2011	Claim	1996-2011	Claim <sup>1</sup>	2000-2011
	Acre-ft		Acre-ft		Acre-ft		Acre-ft	
<b>January</b>	250	111	1050	836	1045	406	80	49
<b>February</b>	194	112	900	784	1065	471	85	50
<b>March</b>	160	105	920	855	985	541	75	57
<b>April</b>	35	36	650	594	655	369	50	51
<b>May</b>	12	6	430	314	390	10	32	26
<b>June</b>	6	0	200	131	0	0	8	8
<b>July</b>	245	9	950	307	800	0	65	0
<b>August</b>	1550	861	3,100	1,722	2,155	2,459	200	31
<b>September</b>	180	22	830	524	595	321	60	4
<b>October</b>	18	1	500	314	255	0	30	10
<b>November</b>	70	7	700	458	595	0	50	31
<b>December</b>	180	68	920	689	860	301	65	33
<b>Total Median Monthly Streamflow</b>	2,900	1,337	11,150	7,527	9,400	4,879	800	350
<b>Median Annual Streamflow</b>	15,900	14,668	28,000	21,888	30,200	25,966	2,015	3,287

Notes:

<sup>1</sup> The claimed volumes are estimated by analogy to ephemeral Walnut Gulch.

**TABLE 3-6. SUMMARY OF CLAIMED MINIMUM GROUND  
WATER LEVELS**

<b>Well Name</b>	<b>Depth to Water<sup>1</sup> (ft)</b>	<b>Water Level Elevation (ft NAVD88)</b>
<b>Palominas Well No. 5</b>	19.5	4245.5
<b>Hereford No. 1</b>	6.3	4144.1
<b>Hereford No. 2</b>	7.5	4139.7
<b>Lewis Springs</b>	6	4039.5
<b>Cottonwood</b>	16.5	4067.9
<b>Moson Spring</b>	9	3972.7
<b>Boquillas No. 1</b>	10.2	3862.4
<b>Boquillas No. 2</b>	10	3,881
<b>Summers</b>	7.5	3716.4

Notes:

<sup>1</sup> Measured depths below an elevation reference point.

TABLE 3-7 POINT SOURCE CLAIMS ASSOCIATED WITH STATE-BASED RIGHTS AND CONTESTED CASE WFR'S

THIRD AMENDMENT POINT SOURCE ABSTRACTS <sup>1</sup>				ADWR ANALYSIS								
Site ID	Source Name	ADWR SOC Number	Basis of Claim	SOC Database Records <sup>2</sup>							Field Visit Observations	Contested Case No. W1-11-232 Consolidated WFRS (Case No.) <sup>3</sup>
				SOC Filing Date (Claimant)	Basis of Claim	Claimed Priority Date	Claimed Quantity (AFA, unless specified)	Claimed Uses	Assignment Date	Current Right/Permit Holder Name		
1	Palominas Well #16	39-00979	55-603542	5/8/1979	55-603642	2/10/1977	4	Irrigation	7/10/1990	BLM	Well located; no power to well, no pump	111-24-CCB-011 (1374)
2	Palominas Well #15	39-00977	55-603541	5/8/1979	55-603541	1/17/1977	4	Irrigation	7/10/1990	BLM	NA	111-24-CCB-011 (1374)
3	Palominas Well #6	39-00969	55-603534	5/8/1979	Well	10/1/1951	4	Irrigation	7/10/1990	BLM	Well located; no power to well	111-24-CCB-011 (1374)
4	Palominas Well #10	39-00973	55-603537	5/8/1979	Well	11/27/1973	4	Irrigation	7/10/1990	BLM	Well located; no power to well; no pump	111-24-CCB-011 (1374)
5	Palominas Well #4	39-00967	55-603532	5/8/1979	Well	7/1/1948	4	Irrigation	7/10/1990	BLM	Well located; no power to well	111-24-CCB-011 (1374)
6	Palominas Well #14	39-00976	55-603540	5/8/1979	Well	12/30/1976	4	Irrigation	7/10/1990	BLM	NA	111-24-CCB-011 (1374)
7	Palominas Well #7 Windmill	39-00970	55-603544	5/8/1979	Well	Mar-52	2.5	Stockwater	7/10/1990	BLM	NA	111-24-CCB-011 (1374)
8	Palominas Well #3	39-00966	"??"	5/8/1979	Well	Jun-48	4	Irrigation	7/10/1990	BLM	NA	111-23-DDA-004 (1154)
9	Palominas Well #12	39-00975	55-603539	5/8/1979	Well	12/2/1976	4	Irrigation	7/10/1990	BLM	NA	111-24-CCB-011 (1374)
10	LDS Church Farm Well 4	39-11942	55-642043 & 55-642036	1/4/1985	55-642043, 55-642036	1980	541	Irrigation, domestic	9/20/2004	BLM	NA	111-23-DDA-004 (1154)
11	Palominas Well #2	39-00965	55-642072	5/8/1979	Well	Oct-51	4	Irrigation	9/20/2004	BLM	NA	111-23-DDA-004 (1154)
12	LDS Church Farm Well 3	39-05370	55-642042	6/19/1980	Well	1976	640	Irrigation	9/20/2004	BLM	NA	111-23-DDA-004 (1154)
13	Palominas Well #8	39-00971	55-603535	5/8/1979	Well	Mar-52	4	Irrigation	7/10/1990	BLM	NA	111-24-CCB-011 (1374)
14	LDS Church Farm Well 1	39-05371	55-642041	6/19/1980	Percolating water	1970	640	Irrigation	9/20/2004	BLM	NA	111-23-DDA-004 (1154)
		39-11938		1/4/1985	55-642041	1952	168.6, 0.2	Irrigation, domestic				
15	LDS Church Farm Well 2	39-11942	55-642037	1/4/1985	55-642043, 55-642036	1980	540.8, 0.2	Irrigation, Stock	9/20/2004	BLM	NA	111-23-DDA-004 (1154)
		39-11937			55-642037	1975	730.6, 0.2					
16	Palominas Well #1	39-00964	55-642044	5/8/1979	Well	June, 1948	4	Irrigation	9/20/2004	BLM	NA	111-23-DDA-004 (1154), 111-24-CCB-011 (1374)
17	Palominas Well #11	39-00974	55-603538	5/8/1979	55-603538	Oct, 1976	1440	Irrigation	7/10/1990	BLM	NA	111-23-DDA-004 (1154), 111-24-CCB-011 (1374)
18	Palominas Well #9	39-00972	55-603536	5/8/1979	Well	Prior 1958	4	Irrigation	7/10/1990	BLM	Well located; no power to well, no pump	111-24-CCB-011 (1374)
19	Cobb Place Well	39-04301	55-623595	6/24/1980	55-623595	Aug-64	1200		10/31/1989	BLM	NA	111-23-AAA-001 (629)
20	McDowell-Craig Farm Well South	39-03796	55-619260	5/22/1980	Private, Percolating water	1925	4	Stockwater	7/18/1995	KOLBE, WALTER R & MAYOLA C	Well located; flowing pipe in ground	111-24-CBB-003 (1344) <sup>4</sup>
21	Lehner Well #5	39-06021	55-608081	6/2/1980	55-608081	Prior to 1900	4.5	Irrigation, Stockwater	DATE NOT ON FILE	BLM	NA	111-24-CBB-002 (1343) <sup>5</sup>
22	McDowell-Craig Irrigation Well	39-03799	55-619258	5/22/1980	Well	2/12/1916	840	Irrigation	7/18/1995	KOLBE, WALTER R & MAYOLA C	Well located; pump feeds adjacent stock tank; shared use w/ Kolbe	111-24-CBB-003 (1344) <sup>4</sup>
23	Cobb House Well	39-12715	55-623606	10/9/1986	55-623606	None listed	0.3	Stockwater	3/23/1990	BLM	NA	111-23-AAA-001 (629)

TABLE 3-7 POINT SOURCE CLAIMS ASSOCIATED WITH STATE-BASED RIGHTS AND CONTESTED CASE WFR'S

THIRD AMENDMENT POINT SOURCE ABSTRACTS <sup>1</sup>				ADWR ANALYSIS								
Site ID	Source Name	ADWR SOC Number	Basis of Claim	SOC Database Records <sup>2</sup>							Field Visit Observations	Contested Case No. W1-11-232 Consolidated WFRS (Case No.) <sub>3</sub>
				SOC Filing Date (Claimant)	Basis of Claim	Claimed Priority Date	Claimed Quantity (AFA, unless specified)	Claimed Uses	Assignment Date	Current Right/Permit Holder Name		
24	Whitehouse Well	39-04274	55-623617	6/24/1980	Well	Prior to 1919	1250	Irrigation	10/31/1989	BLM	NA	111-23-AAA-001 (629)
		39-12699		10/9/1986	55-623617	Prior to 1919	1250	Irrigation	3/23/1990	BLM		
25	Hereford Well	39-04294	55-623659	6/24/1980	55-623659	Prior to 1919	0.35	Domestic, Stockwater	10/31/1989	BLM	NA	111-23-AAA-001 (629)
		39-12712		10/9/1986	55-623619	Prior to 1919	425	Irrigation	3/23/1990	BLM		
26	River Well	39-04297	55-623619	6/24/1980	55-623619	Prior to 1919	440	Irrigation	3/23/1990	BLM	Well located; no power to well	111-23-AAA-001 (629)
27	Shugart #1 Well	39-04296	55-623594	6/24/1980	55-623594	Prior to 1919	1000	Irrigation	10/31/1989	BLM	NA	111-23-AAA-001 (629)
28	Cottonwood #3 Well	39-13626	55-623593, 55-500489	4/3/1989	55-500489	9/1/1981	800	Irrigation	NA	BLM	NA	111-23-AAA-001 (629)
		39-12710		10/9/1986	55-623593	9/1/1981	1000	Irrigation	3/23/1990	BLM		
29	Cottonwood #1 Well	39-13627	55-623592	4/3/1989	55-623592	9/15/1981	800	Irrigation	NA	BLM	NA	111-23-AAA-001 (629)
30	Snake Well	39-12707	55-623584	10/9/1986	55-623584	1964	600	Irrigation	3/23/1990	BLM	NA	111-23-AAA-001 (629)
31	Wolf #2 Well	39-00371	55-623591	6/22/1979	Well	Prior to 1919	1000	Irrigation	10/31/1989	BLM	NA	111-23-AAA-001 (629)
		39-12706		10/9/1986	55-623591	Prior to 1919	1000	Irrigation	3/23/1990	BLM		
32	Wolf #1 Well	39-00372	55-623620	6/22/1979	Well	Prior to 1919	1200	Irrigation	10/31/1989	BLM	NA	111-23-AAA-001 (629)
		39-12705		10/9/1986	55-623620	Prior to 1919	1200	Irrigation	3/23/1990	BLM	NA	
33	Wolf Replacement Well	39-04293	Original Well No. 55-623590 abandoned; Replacement Well No. 55-207869	6/24/1980	55-623590	Prior to 1919	1.5	Domestic, Stockwater	10/31/1989	BLM	NA	111-23-AAA-001 (629)
34	Anderson Well	BLM to file new 39SOC	55-805009	NA							Site located; pump approx. 170 ft west of river in Escapule Zone	
35	Boquillas Ranch Replacement Well	39-04290	Original Well No. 55-623588 abandoned; Replacement Well No. 55-207825	6/24/1980	55-623588	Prior to 1919	0.75	Domestic, Stockwater	10/31/1989	BLM	NA	111-20-032 (232)
36	Escapule Well	None	55-642801	NA								
37	Fairbank #1 Well	39-04289	55-623623	6/24/1980	55-623623	Oct. 1964	1.2	Domestic, Irrigation	10/31/1989	BLM	NA	111-20-032 (232)
38	Fairbank #2 Replacement Well	39-12691	Original Well No. 55-623602 abandoned; Replacement Well No. 55-207826	10/9/1986	55-623602	Prior to 1919	0.3	Domestic, Stockwater	3/23/1990	BLM	NA	111-20-032 (232)
39	Contention F Well	39-04288	55-623656	6/24/1980	55-623656	Prior to 1919	0.2	Stockwater	10/31/1989	BLM	NA	NA
40	Summers Well	39-04287	55-623655	6/24/1980	55-623655	Prior to 1919	0.2	Stockwater	10/31/1989	BLM	NA	112-17-063 (1655)
41	Curtis Flat Well	39-04286	55-623663	6/24/1980	55-623663	Prior to 1919	0.2	Stockwater	10/31/1989	BLM	NA	112-17-063 (1655)
42	Flowing Well	39-13625	55-805353-L	4/3/1989	55-805353-L	1/17/1989	0.096	Other	NA	BLM	NA	112-17-063 (1655)

TABLE 3-7 POINT SOURCE CLAIMS ASSOCIATED WITH STATE-BASED RIGHTS AND CONTESTED CASE WFR'S

THIRD AMENDMENT POINT SOURCE ABSTRACTS <sup>1</sup>				ADWR ANALYSIS								
Site ID	Source Name	ADWR SOC Number	Basis of Claim	SOC Database Records <sup>2</sup>							Field Visit Observations	Contested Case No. W1-11-232 Consolidated WFRS (Case No.) <sup>3</sup>
				SOC Filing Date (Claimant)	Basis of Claim	Claimed Priority Date	Claimed Quantity (AFA, unless specified)	Claimed Uses	Assignment Date	Current Right/Permit Holder Name		
43	Donlevy/Shields Well #1	39-11037	55-644481	9/4/1984	55-644481	1909	31 gals/min <sup>7</sup>	Other	3/22/1993	BLM	Well destroyed; water seeping at claimed location; claimed location appears to be on private parcel	112-17-DB-096 (2066) <sup>6</sup>
44	Donlevy/Shields Well #3		55-644483		NA							
45	Donlevy/Shields Well #2		55-644482		NA							
46	Land BOR Well	39-14490	55-805434-L	8/7/1991	55-805434-L	4/17/1989	<1	Other	NA	BLM	NA	112-17-063 (1655)
47	Donlevy/Shields Well #4	39-11037	55-644484	9/4/1984	55-644484	1909	31 gals/min <sup>7</sup>	Other	3/22/1993	BLM	NA	112-17-DB-096 (2066) <sup>6</sup>
48	McDowell-Craig Spring	39-03797	None	5/22/1980	Seep	1916	3.5	Stockwater	7/18/1995	KOLBE, WALTER R & MAYOLA C	Spring located; water seeping and flowing	111-24-CBB-003 (1344) <sup>4</sup>
49	Garden Canyon Spring	39-00671	CWR 2771, 4A-4024 /BLM	6/11/1979	CWR 2771, 4A-4024	5/13/1957	0.22	Stockwater	10/31/1989	BLM	NA	111-20-032 (232), 111-23-AAA-001 (629)
50	Meusel Spring	39-13992	33-95392	8/28/1990	33-95392	4/6/1990	0.08	Other	NA	BLM	Spring located; water seeping and flowing	111-20-032 (232)
		39-14505		8/7/1991	33-95392	4/6/1990	0.08	Other	NA	BLM		
51	Horse Thief Draw Spring	39-00677	CWR 2769, 4A-4022 /BLM	6/11/1979	CWR 2769, 4A-4022	5/13/1957	0.16	Stockwater	10/31/1989	BLM	NA	111-20-032 (232)
52	Lewis Spring South	39-00678	CWR 2770, 4A-4023	6/11/1979	CWR 2770, 4A-4023	5/13/1957	0.11	Stockwater	10/31/1989	BLM	NA	111-20-032 (232)
53	Murray Spring	39-00676	CWR 2768, 4A-4021 /BLM	6/11/1979	CWR 2768, 4A-4021	5/13/1957	0.22	Stockwater	10/31/1989	BLM	NA	111-20-032 (232)
54	Lewis Seep O	None	None	NA								
55	Lewis Seep N	None	None	NA								
56	Lewis Seep M	None	None	NA								
57	Lewis Seep L	None	None	NA								
58	Lewis Seep K	None	None	NA								
59	Katie's Spring (Lewis Seep J)	None	None	NA								
60	Lewis Seep I	None	None	NA								
61	Lewis Seep H	None	None	NA								
62	Lewis Seep G	None	None	NA								
63	Lewis Seep F	None	None	NA								
64	Lewis Seep E	None	None	NA								
65	Lewis Seep D	None	None	NA								
66	Lewis Seep C	None	None	NA								

TABLE 3-7 POINT SOURCE CLAIMS ASSOCIATED WITH STATE-BASED RIGHTS AND CONTESTED CASE WFR'S

THIRD AMENDMENT POINT SOURCE ABSTRACTS <sup>1</sup>				ADWR ANALYSIS								
Site ID	Source Name	ADWR SOC Number	Basis of Claim	SOC Database Records <sup>2</sup>							Field Visit Observations	Contested Case No. W1-11-232 Consolidated WFRS (Case No.) <sub>3</sub>
				SOC Filing Date (Claimant)	Basis of Claim	Claimed Priority Date	Claimed Quantity (AFA, unless specified)	Claimed Uses	Assignment Date	Current Right/Permit Holder Name		
67	Burned House Spring (Lewis Seep B)	None	None	NA								
68	Lewis Seep A	None	None	NA								
69	Lewis Spring (No.)	39-013993	33-95388, 33-95383	8/28/1990	33-95388	3/29/1990	0.2	Recreation, Fish, Wildlife	NA	BLM	NA	111-20-032 (232)
		39-14503		8/7/1991	33-95388	3/29/1990	0.2	Recreation, Fish, Wildlife	NA	BLM		
		39-013997		8/28/1990	33-95383	3/7/1990	0.02	Recreation, Fish, Wildlife	NA	BLM		
		39-14504		8/7/1991	33-95383	3/7/1990	0.02	Recreation, Fish, Wildlife	NA	BLM		
70	Moson Spring	39-00675	CWR 2767, 4A-4020	6/11/1979	CWR 2767, 4A-4020	5/13/1957	0.11	Stockwater	10/31/1989	BLM	Spring located; water seeping and flowing	111-20-032 (232)
71	Graveyard Gulch Spring	39-00674	CWR 2766, 4A-4019	6/11/1979	CWR 2766, 4A-4019	5/13/1957	0.17	Stockwater	10/31/1989	BLM	NA	111-20-032 (232)
72	Ben's Spring	None	None	NA								
73	Frog Spring	None	None	NA								
74	Unnamed Spring nr Contention	None	None	NA							Claimed location appears to be in private parcel	
75	Two Cienega Spring	39-00672	CWR 3034, 4A-4012 /BLM	6/11/1979	CWR 3034, 4A-4012	5/13/1957	1201	Stockwater, Irrigation	10/31/1989	BLM	NA	112-17-063 (1655)
76	Little Joe Spring	39-00670	CWR 3033, 4A-4013	6/11/1979	CWR 3033, 4A-4013	5/13/1957	25.44	Stockwater, Irrigation	10/31/1989	BLM	NA	112-17-063 (1655)
77	Border Tank	None	None	NA							Tank located; area mapped, 0.52 ac; height, 4 ft; estimated capacity, 0.84 AF	
78	Palominas Tank #6	39-00955	33-31987	5/8/1979	33-31987	1943	0.48	Stockwater, Wildlife	7/10/1990	VICTORIO LAND & CATTLE CO	Tank located; breached; no capacity	111-24-CCB-011 (1374)
79	Palominas Tank #7	39-00956	33-31988	5/8/1979	33-31988	1943	0.31	Stockwater, Wildlife	7/10/1990	VICTORIO LAND & CATTLE CO	Tank located; breached; no capacity	111-24-CCB-011 (1374)
80	Palominas Tank #8	39-00957	33-31989	5/8/1979	33-31989	1943	0.24	Stockwater, Wildlife	7/10/1990	VICTORIO LAND & CATTLE CO	Tank located; area mapped, 0.16 ac; height, 2 ft; estimated capacity, 0.13 AF	111-24-CCB-011 (1374)
81	Palominas Tank #9	None	None	NA							Tank located; area mapped, 0.04 ac; height, 3 ft; estimated capacity, 0.05 AF	
82	Sierra Ready Mix Pond	None	None	NA							Tank located; mapped area, 7.6 ac; depth, 16 ft; estimated capacity, 48.64 AF	
83	Tree Stand Pond	None	None	NA							Tank located; mapped area, 0.27 ac; depth, 3 ft; estimated capacity, 0.32 AF	
84	Bird Pond	None	None	NA							Tank located; mapped area, 0.06 ac; depth, 5 ft; estimated capacity, 0.11 AF	
85	Double Pond	None	None	NA							Tank located; mapped area, 0.37 ac; depth, 4 ft; estimated capacity, 0.59 AF	
86	Fred's Lake	39-13998	33-95394	8/28/1990	33-95394	3/6/1990	1.9	Recreation, Fish, Wildlife	NA	BLM	Tank located; mapped area, 0.74; depth, 8 ft; estimated capacity, 2.38 AF	111-23-AAA-001 (629)
		39-14507		8/7/1991	33-95394	3/6/1990	1.9	Recreation, Fish, Wildlife	NA	BLM		
87	Jack's Pond	None	None	NA							Tank located; mapped area, 0.13; depth, 6 ft; estimated capacity, 0.31 AF	
88	Ernist Pond aka Kingfisher Pond	39-13999	33-95393	8/28/1990	33-95393	4/6/1990	15	Recreation, Fish, Wildlife	NA	BLM	Tank located; area mapped, 2.48 ac; depth, 8 ft; estimated capacity, 7.94 AF	111-23-AAA-001 (629)
		39-14506		8/7/1991	33-95393	4/6/1990	15	Recreation, Fish, Wildlife	NA	BLM		

**TABLE 3-7 POINT SOURCE CLAIMS ASSOCIATED WITH STATE-BASED RIGHTS AND CONTESTED CASE WFR'S**

THIRD AMENDMENT POINT SOURCE ABSTRACTS <sup>1</sup>				ADWR ANALYSIS								
Site ID	Source Name	ADWR SOC Number	Basis of Claim	SOC Database Records <sup>2</sup>							Field Visit Observations	Contested Case No. W1-11-232 Consolidated WFRS (Case No.) <sup>3</sup>
				SOC Filing Date (Claimant)	Basis of Claim	Claimed Priority Date	Claimed Quantity (AFA, unless specified)	Claimed Uses	Assignment Date	Current Right/Permit Holder Name		
89	Unnamed Pond nr Boquillas	39-11232	38-19221	1/4/1982	38-19221	10/1/1957	0.46	Stockwater, Wildlife	NA	BLM	NA	111-20-032 (232)
90	Escapule Pond	None	None	NA								
91	Walnut Dam	39-02616	38-59878	2/4/1980	38-59878	5/10/1969	0.31	Stockwater	DATE NOT ON FILE	GOFF, JOSEPH & CHARLES	NA	111-20-032 (232)
92	Pond near Contention	"?"	None	NA								
93	Donlevy #4 Pond	None	None	NA							Tank not located at claimed location	
94	Pipeline Tank	39-13628	38-94145	4/3/1989	38-94145	4/13/1988	0.21	Stockwater	NA	BLM	Tank located; mapped area, 0.14 ac, height, 2.6 ft; estimated capacity, 0.14 AF	112-17-063 (1655)

**Notes:**

- <sup>1</sup> United States Third Amended Claim. BLM's accompanying CD-ROM to "Attachment D" includes an abstract for each of the point sources claimed. Bolded text indicates the point source claim was field inspected by the Department.
  - <sup>2</sup> SOC Database records reflect latest amended information; Basis of Claim prefix explanatory - 33's, 4A's are applications for permit to appropriate public water; CWR's are certificated water rights; 36's are statements of claim of right to use public waters; 38's are claims of water right for a stockponds; 55's are for well registrations.
  - <sup>3</sup> WFRS listed in Attachment A to September 26, 2006 Order, which are associated with point source claims described in Third Amended SOC, Attachment D. The following WFR's listed in Attachment A are not associated with point source claims: 111-20-065, 111-20-DD-001, 111-24-082, 111-24-CBB-005, 112-17-088, and 112-17-DCA-010 (see Attachment A, footnote 6).
  - <sup>4</sup> See Attachment A, footnote 4.
  - <sup>5</sup> See Attachment A, footnote 3.
  - <sup>6</sup> See Attachment A, footnote 5.
  - <sup>7</sup> SOC 39-11037 states four wells are part of a combined flow claim for 31 gals/min.
- NA** Not Applicable

**TABLE 3-8. USGS (2005)<sup>1</sup> RIPARIAN ECOLOGICAL CONDITION CLASSES**

CONDITION CLASS	RIPARIAN VEGETATION	STREAMFLOW PREVALENCE	GROUND WATER DEPTHS
Class 3 Perennial	Stream channel characterized by dense and diverse herbaceous cover. Floodplain characterized by tall, dense multi-aged cottonwood-willow forests and woodlands.	Streamflow present in channel more than 99 percent of the time.	Maximum ground water depth of less than about 8¼ feet. Annual fluctuation in ground water depth less than about 1½ feet.
Class 2 Intermittent Wet	Stream channel characterized by reduced density of herbaceous cover, replaced by Bermuda grass. Floodplain characterized by increased Tasmarrisk presence, but cottonwood-willow remains dominant.	Streamflow present in channel between 60 and 99 percent of the time.	Maximum ground water depth between about 8¼ and 11 ½ feet. Annual fluctuation in ground water depth between about 1½ and 3¼ feet.
Class 1 Intermittent Dry	Stream channel characterized by Bermuda grass with only sparse herbaceous cover. Floodplain characterized by dominant Tasmarrisk presence.	Streamflow present in channel less than 60 percent of the time.	Maximum ground water depth of more than 11½ feet. Annual fluctuation in ground water depth more than about 3¼ feet.

Notes:

<sup>1</sup> Leenhouts, J. M., Stromberg, J.C., and Scott, R.L., eds., 2006, *Hydrologic Requirements of and Consumptive Ground-water use by Riparian Vegetation along the San Pedro River, Arizona*: U.S. Geological Survey Scientific Investigations Report 2005–5163, 154 p. NOTE: In our report, this is referred to as the USGS Study.

**TABLE 3-9. MILLER (2006<sup>1</sup>) HYDRAULIC STUDY SITES FOR DEVELOPING HABITAT VERSUS DISCHARGE RELATIONSHIPS**

HYDRAULIC STUDY SITE LOCATION (REACH NAME)	CHANNEL CHARACTERISTICS	REACH LENGTH [MILES]	STREAMFLOW DATA SOURCE (NUMBER OF MILES APPLIED)
San Pedro near Lewis Springs (Lewis Springs)	Relatively unconfined channel with mature vegetation and trees on overbanks elevated 2 or 3 times higher than low flow channel.	20.1	USGS at Palominas (16.8) USGS at Charleston (3.3)
San Pedro downstream from the Charleston Bridge (Mesquite)	More open channel with mature trees along the riparian zone set back a distance from the channel.	23.8	USGS at Palominas (2.3) USGS at Charleston (21.5)
San Pedro upstream of the Fairbank Bridge (Fairbank)	Wide, most open channel.	26.1	USGS at Palominas (3.3) USGS nr Tombstone (22.8)
Babocomari within SPRNCA (Babocomari)	Predominately mature riparian community bordering the narrow stream channel.	6.1	USDA Agricultural Research Service flume at ephemeral Walnut Gulch (6.1)

Notes:

<sup>1</sup> *Quantification of Habitat-Flow Requirements for Aquatic Species in the San Pedro River through the San Pedro Riparian National Conservation Area*, Miller Ecological Consultants, 2006. NOTE: In our report this is referred to as the Aquatic Habitat Study.

**TABLE 4-1. COMPARISON OF QUANTITIES FOR STATE-BASED INSTREAM FLOW RIGHTS TO STREAMFLOW QUANTITIES CLAIMED IN THIRD AMENDED SOC**

	San Pedro River at Palominas			San Pedro River at Charleston		Babocomari River within SPRNCA	
	BLM Claim <sup>1</sup>	Certificate No. 33-90103 <sup>2</sup>	Application No. 33-95780 <sup>3</sup>	BLM Claim <sup>4</sup>	Certificate No. 33-90103 <sup>2</sup>	BLM Claim <sup>5</sup>	Application No. 33-95487 <sup>6</sup>
	Acre-Feet	Acre-Feet	Acre-Feet	Acre-Feet	Acre-Feet	Acre-Feet	Acre-Feet
<b>January</b>	250	486	486	1,050	1,199	80	369
<b>February</b>	194	478	478	900	1,127	85	500
<b>March</b>	160	387	387	920	1,162	75	246
<b>April</b>	35	149	149	650	726	50	178
<b>May</b>	12	74	74	430	486	32	123
<b>June</b>	6	36	36	200	250	8	89
<b>July</b>	245	430	430	950	1,168	65	400
<b>August</b>	1,550	430	430	3,100	1,168	200	492
<b>September</b>	180	416	416	830	1,130	60	297
<b>October</b>	18	227	227	500	750	30	184
<b>November</b>	70	214	214	700	809	50	119
<b>December</b>	180	338	338	920	1,051	65	246
<b>Total Median Monthly Streamflow</b>	2,900	3,666	3,666	11,150	11,026	800	3,243
<b>Median Annual Streamflow</b>	15,900	NA	NA	28,000	NA	2,015	NA

Notes:

<sup>1</sup> Median monthly flows at USGS gage for period of record 1954-1980.

<sup>2</sup> Monthly volumes listed on certificate of water right issued April 3, 1992. Means of median monthly flows at USGS gage for available years during 1931-1983 with corrections omitting peak flows of 1979 and reduced values for July, August and September.

<sup>3</sup> Monthly volumes listed on application filed January 8, 1991. Means of median monthly flows at USGS gage for available years during 1930-1983 with corrections omitting peak flows of 1979 and reduced values for July, August and September.

<sup>4</sup> Median monthly flows based on period of record 1954-1988.

<sup>5</sup> Estimated from median annual volume of storm runoff at Walnut Gulch for period of record 1956-1988 and relative monthly magnitudes for San Pedro at Charleston.

<sup>6</sup> Monthly volumes listed on application filed October 2, 1990. Source of data reported as weekly measurements from March and June of 1988.

**TABLE 5-1 COMPARISON OF ACQUISITION DATES**

Map Code	BLM 2011 Data			ADWR 2010 Report Deed Date	Difference in Days (Deed Date vs. BLM's Acquisition Date)
	Serial Number	APN	Acquisition Date		
1	AZA 025612	104-37-001D	10/18/1991	10/23/1991	5
2	AZA 026600	104-81-006A	05/28/1992	6/12/1992	15
3	AZA 02731001	121-35-003	11/09/1992	11/18/1992	9
		121-40-002	11/09/1992	7/29/1999	2,453
4	AZA 02731002	121-01-003A	11/09/1992	11/18/1992	9
5	AZA 027317	107-24-010A	12/10/1992	1/25/1993	46
5	AZA 027317	107-24-009B	12/10/1992	12/11/1992	1
6	AZA 027954	107-24-016	08/23/1993	8/25/1993	2
		107-24-005	08/23/1993	10/7/1988	-1,781
7	AZA 02085 (1)	121-28-015	11/15/1993	11/17/1993	2
	AZA028085	121-28-019R	11/15/1993	7/29/1999	2,082
8	AZA 028019 (2)	104-38-002A	03/17/1995	3/27/1995	10
	AZA 029019	104-38-012C	03/17/1995	3/27/1995	10
		104-38-012B	03/17/1995	3/27/1995	10
		104-38-013	03/17/1995	3/27/1995	10
9	AZA 029189	104-70-002	08/21/1995	8/21/1995	0
	AZA 028189 (3)	104-63-002A	08/21/1995	8/21/1995	0
		104-70-003	08/21/1995	8/21/1995	0
		104-64-011	08/21/1995	8/21/1995	0
10	AZA 030968	121-28-018	11/15/1993	7/29/1999	2,082
		121-28-006C	07/22/1999	7/29/1999	7
		121-34-003B	07/22/1999	7/22/1999	0
		121-28-019P	07/22/1999	7/29/1999	7
11	AZA 031966	104-34-012	02/24/2005	2/24/2005	0
12	AZA 032142	609-28-001B	04/09/2004	4/9/2004	0
		609-28-001B	04/09/2004	4/9/2004	0
13	AZA 032142A	609-28-001A	08/30/2004	8/30/2004	0
14	AZA 032145	107-28-004B	06/07/2004	6/22/2004	15

Notes:

- (1) Serial number AZA 02085 should be AZA 028085
- (2) Serial number AZA 028019 should be AZA 029019
- (3) Serial number AZA 028189 should be AZA 029189