

TO: Rosedale-Rio Bravo Water Storage District Board of Directors  
Agenda Item 7.a.i

FROM: Dan W. Bartel

DATE: June 14, 2022

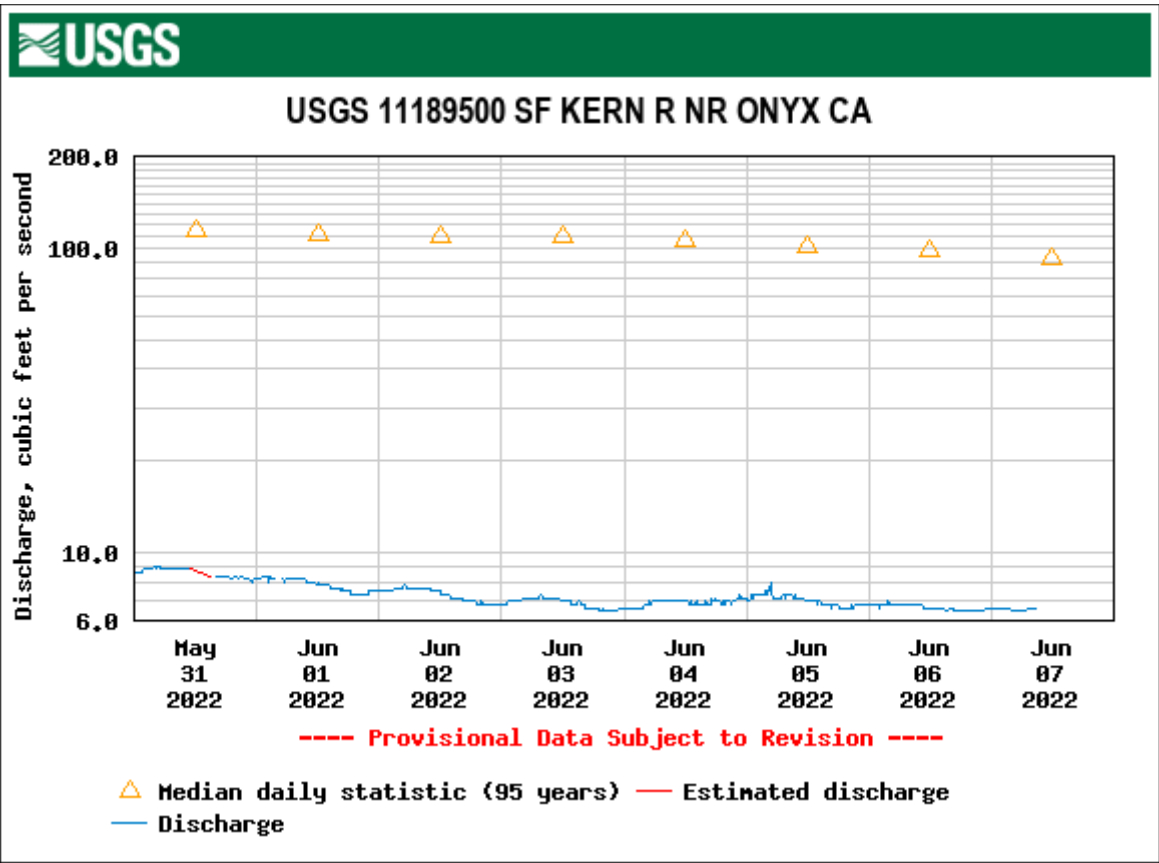
RE: Onyx Ranch Operations Report

**Discussion:**

Staff has been working to implement an interim operations plan considering the District's developing goals and objectives on the Ranch. Specifically, staff has:

- Continued operation of conveyance system
- Worked on stockwater systems projects
- Worked on planning for flow metering improvements of other right holders
- Worked on planning for summer/fall fencing and infrastructure replacement projects
- Preparing applications for Smith Ditch Lake and Streambed Alteration Permits
- The CEQA team distributed the FEIR including responses to comments on 12/30/2020 and the Board Certified the document on 1/12/2020. Staff continued coordination efforts with the Kern River Interests and began redirecting flows March 28 and implemented the Pilot Project April 1, 2022.
- Staff working closely with COB operations staff to coordinate operations.

RRBWSO diverted 76 AF to the Landers for Ben Rudnick obligations this month to the Onyx Ranch and redirected 323 AF to the reservoir (0-13.5 cfs), this resulted in **234 AF** of Net Project Water with an average flow of **5.9 cfs**. Flows dropped to a point on May 21 where there was very little if any flows at Patterson Lane so redirected flows ceased and the limited amount of water still available was diverted for stockwater purposes. Flow at Patterson was stream gaged 10 times and averaged **6 cfs**. Wells were operated to supplement irrigation to the Boone field only. South Fork flows downstream of Bloomfield averaged 15 cfs plus calculated accretions of 3 cfs, for a total average of 18 cfs.



South Fork flow at Patterson Ln. after redirecting flows to reservoir 5/4/2022  
 Measured Flow 9 cfs





South Fork flow at Patterson Ln. after ending redirected flows to reservoir 5/23/2022  
Measured Flow <1 cfs



Slightly downstream of Patterson

# South Fork Kern River Monthly Measurement Report

May-2022

Daily values in SFD = Second Foot Days, Monthly total in AF = Acre-Feet

Date	South Fork				D.Prince (4,5,17,20-22,37)			Hafenfield (5)			RRBWSO (1,3,6,7,12, Wirth1, 30,33, Boone)				J.Nicoll (3)	Smith (Smith)	Total Diverted	South Fork			RRBWSO to Isabella	Isabella				
	Mean Flow	USGS - Onyx	Accretions	Doyle Ranch Road	Mill/Hillside	Miller	Prince	Miller	Landers	Cottonwood	Scodie/Mack	Landers	Nicoll	Redirected "Gross Project Water"	Nicoll	Smith		Sierra Way "Flow"	Patterson "Flow"	"Net Project Water"	Mean Inflow	North Fork Flow	Difference	3 Day Avg		
S 1	23	24	5			1.9	5.7	1.9				1.0	11.9	3.2		3.3	17	Yes	Yes	10	548	547	1	13		
M 2	22	22	5			1.7	4.4	1.7				1.0	12.0	3.3		3.3	16	Yes	Yes	10	557	568	-11	-7		
T 3	21	22	7			4.1		4.1				1.0	13.5	3.2		3.1	16	Yes	8.97/ 9.7	11	593	584	9	0		
W 4	20	21	7			3.8		3.8				1.0	6.2	2.8		10.6	22	Yes	Yes	5	644	602	42	13		
R 5	19	20	5			3.2		3.2				0.5	4.4	2.2		11.7	20	Yes	Yes	4	600	632	-32	6		
F 6	19	15	5			2.3		2.3				0.5	4.0	2.2		8.7	16	Yes	Yes	3	632	700	-78	23		
S 7	18	18	5	Too Windy		2.2		2.2				0.5	7.6	2.1		8.7	16	Yes	Yes	6	685	762	-77	-62		
S 8	17	18	5			1.2		1.2				0.5	9.3	2.2		8.1	13	Yes	Yes	7	766	823	-57	-70		
M 9	17	16	5	14		1.1		1.1				1.0	6.8	2.7		8.3	14	Yes	5.1	5	645	694	-49	-61		
T 10	17	17	5			0.9		0.9				0.5	8.5	3.8		7.8	14	Yes	5.7	7	556	569	-13	-40		
W 11	17	17	5			0.0		0.0				0.5	10.1	3.7		8.2	12	Yes	5.5	8	505	506	-1	21		
R 12	18	17	5			1.0		1.0				0.5	7.0	3.6		9.0	15	Yes	Yes	6	443	463	-20	-11		
F 13	17	18	0			1.0		1.0				0.5	5.8	1.8		8.1	12	Yes	4.6	5	466	437	29	3		
M 14	16	16	0	14		0.0		0.0				0.0	6.4	1.6		8.0	10	Yes	5.8	5	466	418	48	19		
S 15	16	16	0			0.0		0.0				0.0	8.2	0.0		8.0	8	Yes	Yes	7	499	466	33	37		
S 16	15	15	0			0.0		0.0				0.0	7.0	0.0		8.0	8	Yes	Yes	6	542	576	-34	16		
T 17	15	14	3			0.0		0.0				1.4	4.7	2.9		8.1	12	Yes	5.68	3	645	661	-16	-6		
W 18	14	14	3			0.0		0.0				1.3	5.1	2.9		7.7	12	Yes	Yes	4	731	750	-19	-23		
R 19	13	13	3			0.0		0.0				1.4	6.2	2.4		6.3	10	Yes	Yes	4	716	775	-59	-31		
F 20	13	13	3			0.0		0.0				1.1	5.7	2.2		6.7	10	Yes	Yes	4	706	859	-73	-50		
S 21	12	12	3	8		0.0		0.0				1.0	4.4	2.7		6.9	11	Yes	1.1/0.8	0	803	843	-40	-57		
S 22	12	12	3			0.0		0.0				1.0	4.7	2.4		6.9	10	Yes	Yes	0	650	691	-41	-51		
M 23	12	12	3			0.0		0.0				0.9	3.6	3.3		6.9	11	Yes	Yes	0	670	639	31	-17		
T 24	11	11	0			0.0		0.0				0.8	2.1	0.0		5.9	9	Yes	Yes	0	653	659	-6	-5		
W 25	10	11	4			1.1		1.1				5.7	1.1	0.0		5.6	15	Yes	Yes	0	681	686	-5	7		
R 26	10	9	2			0.3		0.3				3.2	1.5	0.0		5.4	11	Yes	No	0	698	731	-33	-15		
F 27	9	9	1			0.1		0.1				2.8	1.5	0.0		5.1	10	Yes	No	0	731	763	-32	-23		
S 28	9	9	0	3		0.1		0.1				2.4	1.4	0.0		5.2	9	Yes	No	0	630	734	-104	-56		
S 29	9	9	0			0.0		0.0				2.1	1.5	0.0		4.9	9	Yes	No	0	665	625	40	-32		
M 30	9	9	1			0.0		0.0				2.2	1.6	0.0		5.7	10	Yes	No	0	518	531	-13	-26		
T 31	9	9	0			0.0		0.0				2.1	1.4	0.0		5.3	9	Yes	No	0	484	459	25	17		
SFD	459	459	94			0	26	10	0	0	0	38	12	163	58	0	0	0	215	385	0	120	118	19,198	19,751	-557
AF	910	911	185			0	51	20	51	0	0	76	24	323	115	0	0	427	764	0	239	234	38,079	39,177	-1,104	

Note: Cottonwood via the Landers 15 37 72 51 115 0 427 12 6.02 5.9  
 Redirected Historic Irrigation Demand Limit = 37 Net Project Water = Gross Project water (Redirected) x 80% up to 5,000 AF/yr during pilot period.  
 Saturday South Fork Doyle Ranch Flow measurement, value carries for next week Tuesday-Monday.  
 NorK Fork Flow measured at Kernville. As Isabella Dam operator, COB to update. <https://www.spk-wc.usace.army.mil/reports/monthly.html>  
 Inferred South Fork Flow on a 3 day running average. USGS Sfork at 0900  
 May 3-9 adjusted accretions down by 3 cfs. (calculated 10, adjusted to 7)  
 District staff still thought that was high and adjusted down to 5 cfs 5/6 adjusted SF down by 3 cfs to account for differences 5/1-5/5  
 Bold numbers under Patterson Lane signifies CBK flowtracking

Accumulated Net
234
Pilot Max Net
5000

**ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT - ONYX RANCH  
MONTHLY GROUNDWATER MONITORING RUN  
MAY**

**2022**

<b>Well Name</b>	<b>DATE</b>	<b>Depth to Water (ft)</b>	<b>Notes</b>
Onyx Store - Domestic	5/31/2022	43.8	
Ranch HQ - Domestic	5/31/2022	19.3	
Landers Sand - Old Ag Well	5/31/2022	21.2	
Onyx Store - Old Ag Well	5/31/2022	21.6	
Mack Well	5/31/2022	25.3	
Nicoll Field - Old Ag Well	5/31/2022	18.1	
Mack Field West - Domestic	5/31/2022	16.4	
Gibboney-2 Piezo	5/31/2022	10	
Gibboney-3 Piezo	5/31/2022	8.5	
Boone Piezo	5/31/2022	9.1	
Lieb Piezo	5/31/2022	9.7	
Pruitt Piezo	5/31/2022	14.9	
Scodie Well	5/31/2022	25.6	
Pruitt Well	5/31/2022	17.4	
Nicoll Well	5/31/2022	18.5	
Mack Piezo	5/31/2022	20.6	