



NEW CONSERVATION WATER FROM SEVEN OAKS DAM AND ENHANCED RECHARGE PROJECT – UPDATE

Riverside Public Utilities

Board of Public Utilities
June 24, 2019

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HISTORY

Overview of the 1969 Western-San Bernardino Judgement

1. Western and San Bernardino Valley Municipal Water District are parties to the Judgment in the case of Western Municipal Water District of Riverside County v. East San Bernardino County Water District, et al., Riverside Superior Court No. 78426 (“Western Judgment” or “Judgment”).

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HISTORY (con't)

2. The Judgment is administered and enforced by a Watermaster, consisting of two individuals, one representative nominated by Valley District (Doug Headrick), and one by Western (Craig Miller).
3. Riverside has adjudicated rights to extract and export water from the San Bernardino Basin Area.
4. Riverside may increase its extraction/export rights if it participates in "New Conservation" projects as defined by the 1969 Judgment.



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HISTORY (con't)

Parties to the 1969 Western-San Bernardino Judgement	Percent of Safe Yield and New Conservation
Valley District	72.05%
City of Riverside	22.49%
Agua Mansa / Meeks & Daley	3.38%
Riverside Highland	1.85%
University of California Regents	0.23%



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BACKGROUND

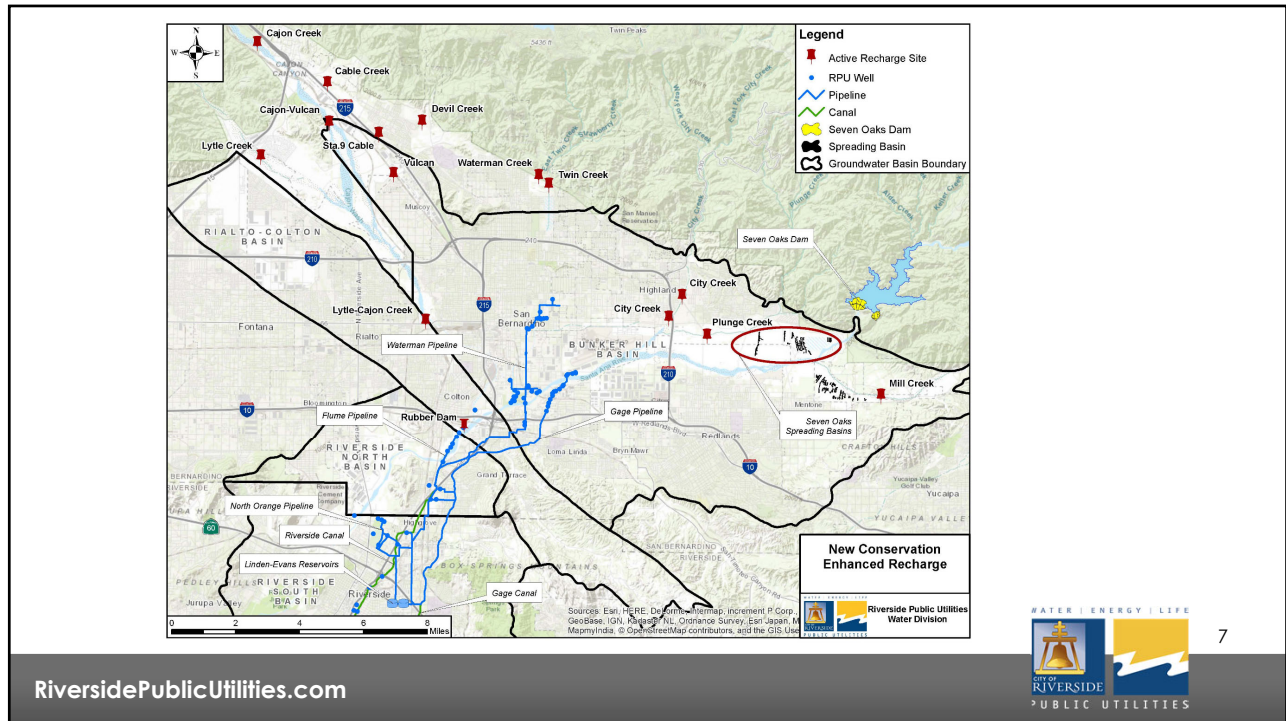
Riverside's participation in 2 "New Conservation" projects that capture storm water:

1. Seven Oaks Dam Initial Conservation Project (Initial Project), and
2. Seven Oaks Dam Enhanced Recharge Project (Enhanced Recharge Project).

BACKGROUND (con't)

Seven Oaks Dam – Initial Project

1. Gross capacity of the Dam was designed at 145,000 AF (113,600 AF for flood control & 32,000 AF for sediment storage).
2. 1994 – City paid \$250,000 for SOD Water Conservation Feasibility Study (completed in 1997).
3. 1997 – City paid \$830,000 for SOD blanket drain modifications to create 50,000 AF of storm water storage behind the dam.
4. 1997 - 2012 – City paid \$3,569,000 for the SWRWQB water rights and to improve conveyance and recharge facilities for up to 200cfs.
5. Dam construction completed in 1998.





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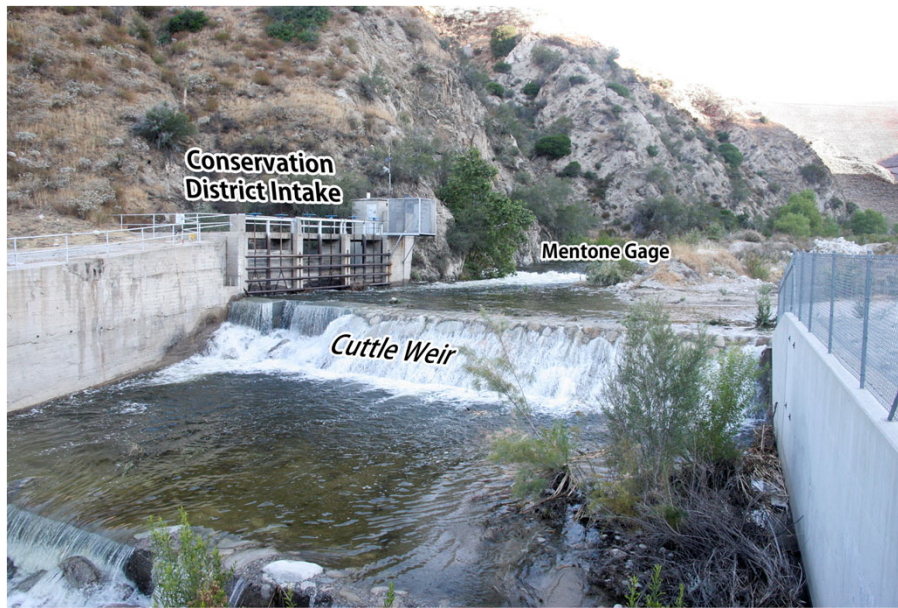
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BACKGROUND (con't)

Seven Oaks Dam – Enhanced Recharge Project

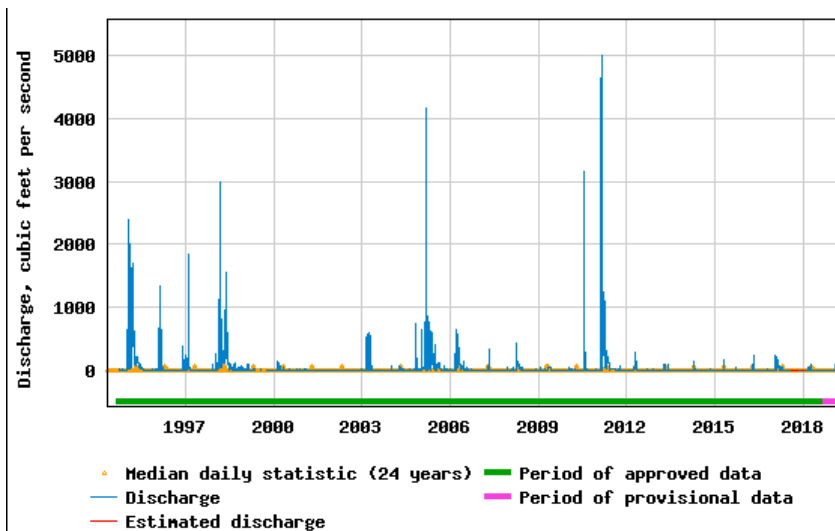
1. ERP divided into 2 Phases
2. ERP Phase 1 was subdivided into Phases 1A, 1B, and 1C and expands the diversion capacity from 195 to 500 cfs.
 - a. ERP Phase 1A is complete.
 - b. ERP Phase 1B. Engineering in 2019, Construction in 2020.
 - c. ERP Phase 1C. Engineering in 2020, Construction in 2021.
3. Enhanced Recharge Project Phase 2. TBD

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BACKGROUND (con't)

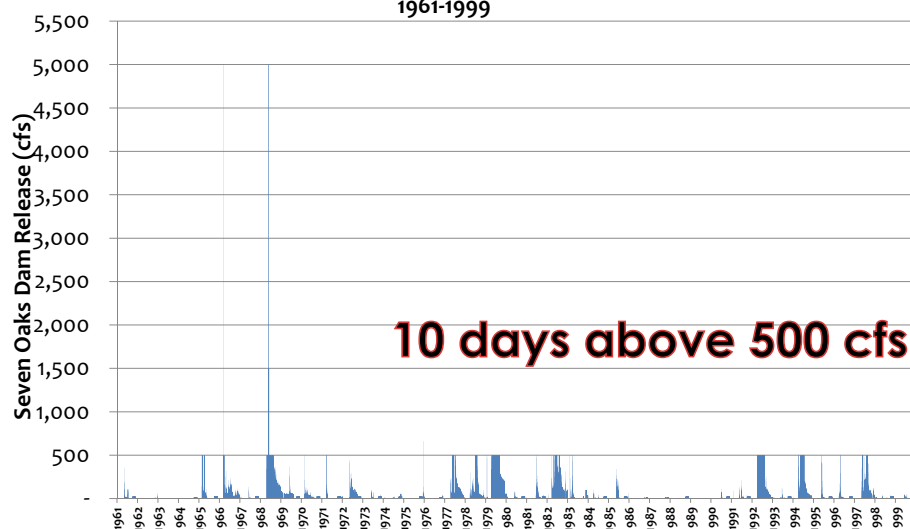


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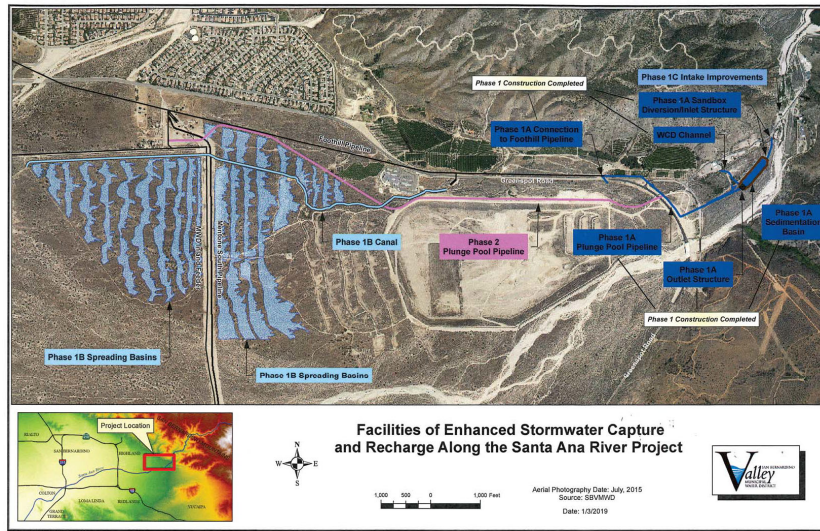
Historical Seven Oaks Dam Releases per Current Operating Plan
1961-1999



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SEVEN OAKS DAM – ERP PHASE 1A

1-minute video:

G:\WATER\ENGINEERING\100_ResourcesHome\Enhanced Recharge\RPU Board and CC\ERP Drone Footage



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BACKGROUND (con't)

Entity with RPU Share	SBBA Extraction Rights (AFY)	New Conservation (Initial Project)	Adjusted SBBA Current Rights (AFY)	New Conservation (ERP Phase 1)	Adjusted SBBA Future Rights (AFY)
City of Riverside (RW Co. and Gage Canal Co.)	49,542	1,719	51,261	711	51,972
Agua Mansa / Meeks and Daley	2,908	100	3,008	41	3,049
Riverside Highland	440	0	440	0	440
University of California Regents	536	18	554	7	561
Total	53,426	1,837	55,263	759	56,022



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DISCUSSION

The participation costs for Riverside are summarized in the following table:

New Conservation Project	Previously Paid Costs	Projected Costs from FY 2018-19 through FY 2022-23	Total Project Costs	Perpetual Extraction Rights for Riverside (in AFY)
Initial Project	\$4,649,000	-	\$4,649,000	1,719
ERP Phase 1A	\$3,428,000	\$450,000	\$3,878,000	-
ERP Phase 1B	-	\$4,925,000	\$4,925,000	-
ERP Phase 1C	-	\$790,000	\$790,000	711
Totals	\$8,077,000	\$6,165,000	\$14,242,000	2,430



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RECOMMENDATION

That the Board of Public Utilities receive an update for New Conservation Water in the San Bernardino Basin Area associated with the Seven Oaks Dam and the Enhanced Recharge Project.

QUESTIONS?

