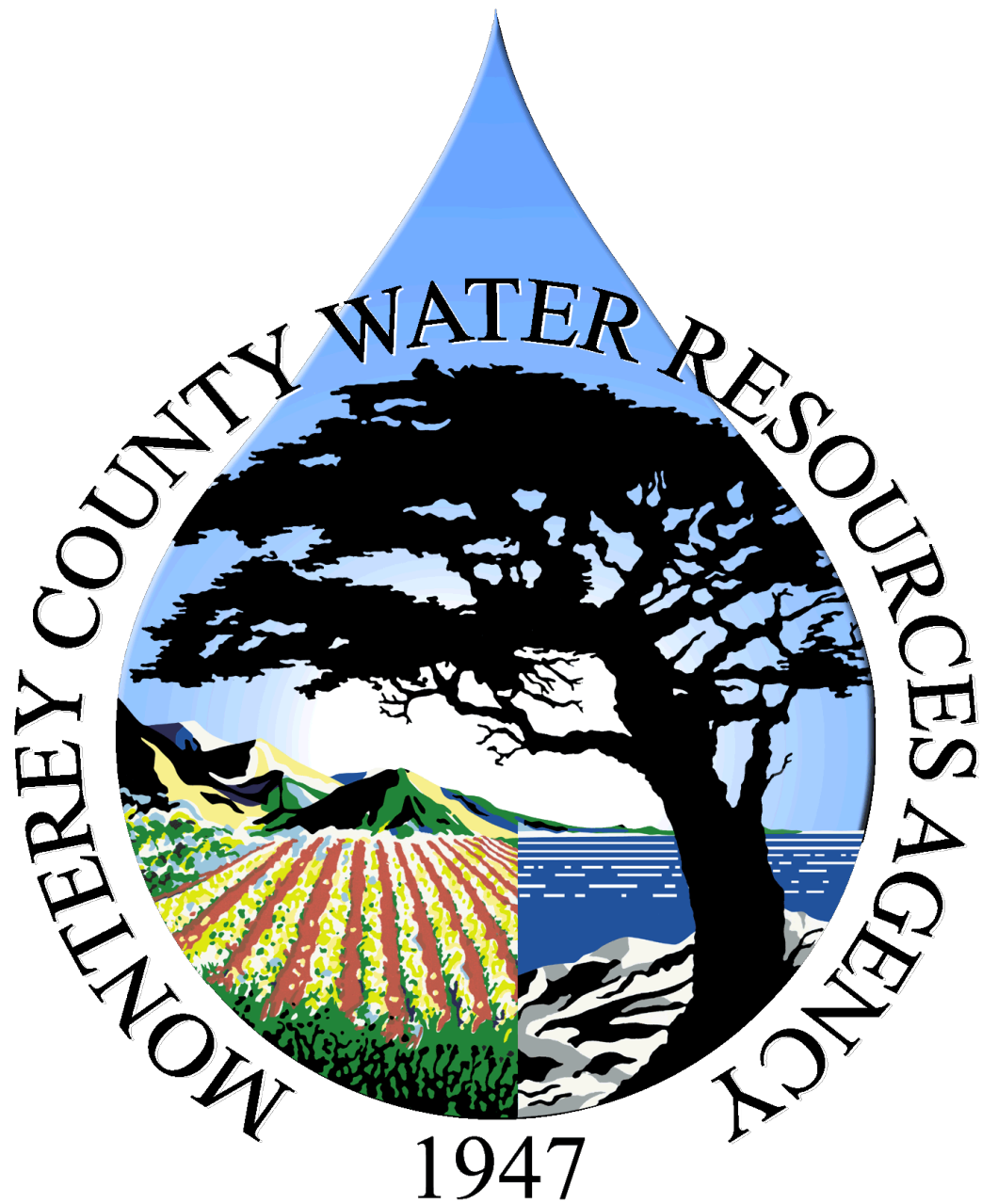






Dam Safety Projects San Antonio

San Antonio Dam Safety Projects

Project Schedule		Total Subproject Costs, 2023 Dollars	Total Subproject Costs, 2025 Dollars	Covered by Grants	Unfunded Need (2025)
San Antonio Subprojects					
1	Spillway Replacement	\$ 76,776,780	\$ 82,384,434	\$ 3,800,000	\$ 78,584,434
2	Butterfly Valve Hydraulic Operator Upgrade	\$ 745,790	\$ 800,261	\$ 414,500	\$ 385,761
3	Replace Intake Structure Bulkhead Gate	\$ 409,810	\$ 439,742	\$ 448,000	\$ -
4	Low Level Discharge Valve Maintenance	\$ 279,270	\$ 299,667	\$ 305,000	\$ -
5	Replace Combination Air Release Vacuum Valves	\$ 241,820	\$ 259,482	\$ 219,200	\$ 40,282
6	Install Access Hatch in Low Level Outlet Works Conduit	\$ 780,030	\$ 837,002	\$ 348,600	\$ 488,402
7	Replace Intake Structure Trash Racks	\$ 1,002,590	\$ 1,075,818	\$ 278,750	\$ 797,068
8	Interior and Exterior Paint of Low-Level Outlet Works Conduit	\$ 4,579,600	\$ 4,914,087	\$ -	\$ 4,914,087
9	Horizontal Drain Repair	\$ 544,630	\$ 584,409	\$ 606,000	\$ -
10	Toe Drain Repair	\$ 272,850	\$ 292,779	\$ -	\$ 292,779
11	Abutment Drain Repair	\$ 680,520	\$ 730,224	\$ -	\$ 730,224
12	New Piezometers	\$ 1,898,180	\$ 2,036,820	\$ -	\$ 2,036,820
13	Road Pavement Repair	\$ 680,520	\$ 730,224	\$ -	\$ 730,224
14	New Access Road	\$ 3,787,800	\$ 4,064,455	\$ -	\$ 4,064,455
15	Install Boat Barrier Buoy Line and Replace Spillway Log Boom	\$ 544,630	\$ 584,409	\$ -	\$ 584,409
San Antonio Total		\$ 93,224,820	\$ 100,033,813	\$ 6,420,050	\$ 93,648,944

SB104
(DWR Grant Agreement – San Antonio ONLY)

San Antonio Spillway Replacement Project

1. Project completion extension granted to December 2031
2. Currently finalizing the Probable Maximum Flood (PMF) & Alternatives Analysis Report
3. Environmental analysis initiated 2025
4. Begin 30% End of 2025

NOTE: Estimate \$77 million



San Antonio Spillway Replacement Project

TIMELINE

- “Project Construction” includes project float
- Subject to DSOD review & approval
- Subject to permitting
- Subject to construction funding
- Schedule as of 9/10/25

		Task Mode ▾	Task Name ▾	Start ▾	Finish ▾
0			San Antonio Spillway Project	Wed 9/18/24	Wed 12/31/31
1			PMF Update	Wed 9/18/24	Wed 10/1/25
2			DSOD Meeting	Wed 7/2/25	Wed 7/2/25
3			SASP PMF Resubmittal DELAY	Mon 5/19/25	Wed 10/1/25
4			DSOD PMF REVIEW Updated	Wed 10/1/25	Mon 12/1/25
5			SASP Alternatives Analysis	Mon 5/19/25	Wed 10/15/25
6			DSOD Alt Analysis Resubmittal	Wed 10/15/25	Mon 12/15/25
7			SASP 30% DSOD Design	Sun 11/30/25	Tue 12/30/25
8			30% Updated DSOD Submittal	Thu 1/1/26	Fri 4/3/26
9			MCWRA Revisions	Sat 4/4/26	Mon 5/4/26
10			SASP 60% DSOD Design Review	Tue 5/5/26	Wed 8/5/26
11			MCWRA Revisions	Sun 8/30/26	Tue 10/6/26
12			SASP 90% DSOD Design Review	Thu 10/15/26	Fri 1/15/27
13			MCWRA Revisions	Sun 1/31/27	Wed 3/3/27
14			SASP 100% DSOD Design Review	Mon 5/31/27	Sun 8/1/27
15			Project Construction	Sun 8/1/27	Wed 12/31/31

San Antonio Dam

Low Level Outlet Works (LLOW)

1. Boat Barrier Buoy Line Installation
2. Intake Structure Bulkhead Gate Replacement
3. Penstock Access Hatch
4. Butterfly Hydraulic Operator Upgrade
5. Intake Structure Trash Rack Replacement
6. Combination Air Release Vacuum Valves (6) replacements
7. Low Level Discharge Valve Assessment and Servicing
8. Penstock Recoating (downstream of BV)

NOTE: LLOW Combined Estimate \$8 million



San Antonio Dam Safety Projects

New Piezometers & Drains (Toe and Abutment):

SA contains all original monitoring instrumentation. Annually, the Agency is required to report bi-monthly readings of all instrumentation to DSOD for submission and review via the Annual Instrumentation Performance Report. Some piezometers have been requested to be investigated and repaired by DSOD. The costs associated with these projects includes condition assessments and repairs/replacements.

Note: Estimate \$1.9 million



San Antonio Dam Safety Projects

12" Horizontal Drain Repair

A 130 foot 12" CMP horizontal drain runs adjacent to the LLOW tunnel at the toe of the dam. The original pipe is deteriorated and is in need of repair/replacement. The repair will include inserting a smaller diameter pipe and backfilling the annular space with slurry. Design is 90% Complete. Primary remaining costs are for construction funding.

Note: Estimate \$600,000





Dam Safety Projects – Nacimiento

Nacimiento Dam Safety Projects

Project Schedule		Total Subproject Costs, 2023 Dollars	Total Subproject Costs, 2025 Dollars	Covered by Grants	Unfunded Need (2025)
Nacimiento Subprojects					
1	Replacement of Three Low Level Outlet Valves and Discharge Piping	\$ 1,328,940	\$ 1,427,000	\$ 350,000	
2	Spillway Evaluation, Investigation, and Maintenance Repairs	\$ 3,811,340	\$ 4,089,714	\$ 850,000	
2A	Spillway Rehabilitation	\$ 24,456,990	\$ 26,243,290		
3	Spillway Plunge Pool Erosion Control	\$ 23,140,890	\$ 24,831,064	\$ 13,000,000	
4	Low Flow Channel Sand Boil Prevention	\$ 15,527,840	\$ 16,661,969		
5	Modify Low-Level Outlet to Provide Flow Control and Energy Dissipation	\$ 5,447,370	\$ 5,845,237	\$ 1,800,000	
6	Low Level Intake Valve Actuator Replacement	\$ 500,000	\$ 536,519	\$ 500,000	\$ 36,519
7	Dam Embankment Seismic Stability Evaluation and Implementation	\$ 1,597,510	\$ 1,714,190		\$ 1,714,190
8	Spillway Bridge Maintenance	\$ 574,590	\$ 616,557		\$ 616,557
9	Nacimiento Lake Drive Road Repair	\$ 4,175,140	\$ 4,480,086		\$ 4,480,086
10	Protection of Powerplant Penstock from Adjacent Slope Failure	\$ 1,760,150	\$ 1,888,709	\$ 300,000	\$ 1,588,709
11	Security Upgrades	\$ 1,524,750	\$ 1,636,115		\$ 1,636,115
Nacimiento Total		\$ 83,845,510	\$ 89,970,449	\$ 16,800,000	\$ 73,170,449

Nacimient Dam Projects In Progress

\$6.1 mil DWR Grant Funded (End Nov 30, 2027)

- Plunge Pool Erosion Protection Design
- LLOW Flow Control Valve & Flow Meter
- LLOW Intake Actuators
- LLOW & Penstock Protection

Other Projects Underway

- South Access Road Repair
- Hydroplant Erosion Protection Project

Nacimiento Dam- LLOW Valve Installation



Nacimiento & San Antonio Dams

The Dam Safety Projects list identified \$177 mil (2023) in project needs for both dams.

- \$83.8 mil (2023) in projects for Nacimiento Dam, and
- \$93.6 mil (2023) for San Antonio Dam.

A total of \$22.2 mil in State Grant funds has been secured for dam safety projects through November 2027 (Nacimiento \$16.8, San Antonio \$6.4 mil).

Approximately \$166.8 mil (2025) of the identified dam safety projects at both facilities remains unfunded.

The list of dam safety projects will continue to grow as additional needs are identified by Agency staff or as required by FERC and DSOD.

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Questions & Discussion

