SAWPA Building Lobby Remodel (Security Improvements and ADA Upgrades Project

July 2, 2024 Item No. 6.A David Ruhl Executive Manager of Engineering and Operations





Recommendation

Direct the General Manager to file a Notice of Exemption for the Lobby Remodel and ADA Upgrades Project with the Riverside County Clerk's Office; and

Direct the General Manager to issue a Notice Inviting Bids, upon completion of the Final Plans and Specifications, for the Construction of the Lobby Remodel and ADA Upgrades Project.

Commission Meeting

Project Drivers

- Harden the entrance to add a layer of security
- Maintain lobby open during business hours
- Improve functionality and appearance of reception work area
- Improvements consistent with prior Phase 1 and 2
- Provide exterior and interior ADA Upgrades

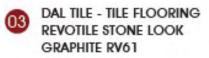


Commission Meeting 2

Proposed Lobby















CLEAR ADONIZED STOREFRONT SYSTEM



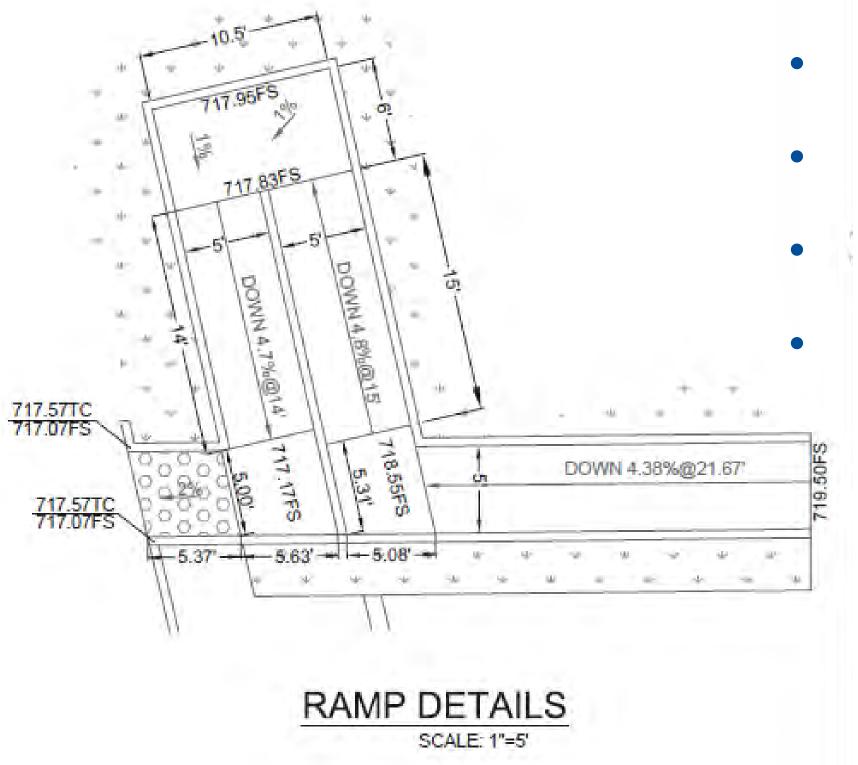


DAL TILE -ENGINEERED STONE OQ34 - ROCKY MOUNTAIN



WILSONART -PLASTIC LAMINATE WALNUT HEIGHTS - 7965

Exterior Entrance Redesign



- Provides path of travel
- Adds a ramp from the ADA parking
- Preserves 2/3 of the exterior concrete area
 - Includes aesthetic features

Estimate of Construction Cost and CEQA

Estimate of construction costs

Lobby and ADA Improvements \$519,587

As of 4/30/24, the Building Reserve fund has \$620,007 available. **CEQA**

Project is categorically exempt from CEQA under the Public Resources Code Section 15301 (a)



Commission Meeting 6 |

Schedule of Critical Activities July 2, 2024 July 2, 2024 August 1, 2024 August 5, 2024 November 5, 2024 Dec 2024 – Mar 2025

CEQA Notice of Exemption

Commission Approval – Notice Inviting Bids

Final Plans and Specifications

Issue Notice Inviting Bids

Commission Approval – Award Construction Contract

Construction

Commission Meeting

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Commission Meeting 8

Questions?

9 | Commission Meeting

Thank You

David Ruhl Santa Ana Watershed Project Authority Office (951) 354-4220 druhl@sawpa.org sawpa.org









City of Lake Elsinore - City of Canyon Lake - County of Riverside Elsinore Valley Municipal Water District - Santa Ana Watershed Project Authority

Lake Elsinore & Canyon Lake TMDL Task Force Status Update

Commission Meeting Item No. 6.B Rick Whetsel Senior Watershed Manager July 2, 2024







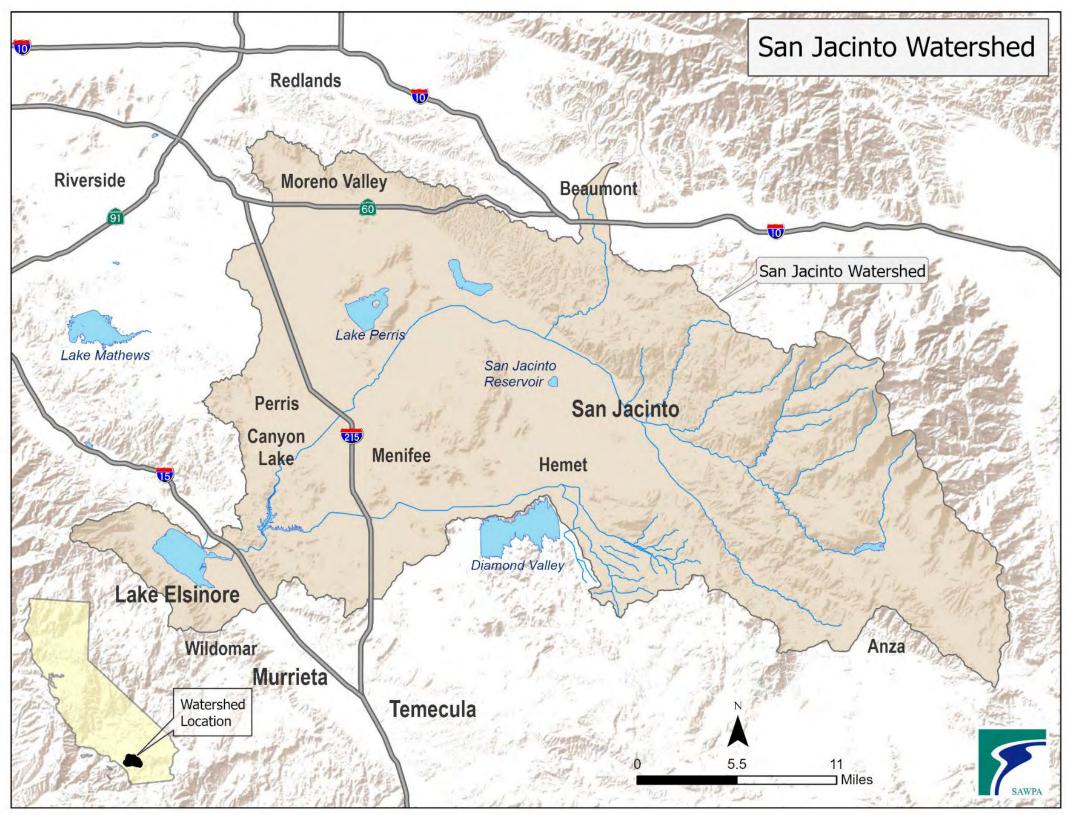
Agenda

- Background on LESJWA
- Lake Elsinore and Canyon Lake Water Quality
- Lake Elsinore and Canyon Lake TMDLs (2004)
- TMDL Events / Implementation Activities
- 2024 Updates to TMDLs



Lake Elsinore and San Jacinto Watersheds Authority (LESJWA)

- LESJWA is a Joint Powers Authority
- Five member agencies:
 - Elsinore Valley Municipal Water District
 - City of Lake Elsinore
 - City of Canyon Lake
 - County of Riverside
 - SAWPA (also LESJWA administrator)
- LESJWA goals:
 - Support projects to improve water quality at Lake Elsinore, Canyon Lake, and the San Jacinto River Watershed.
 - Secure reliable funding to operate and maintain water quality improvement projects
 - Administer the Lake Elsinore and Canyon Lake TMDL Task Force.



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Lake Elsinore

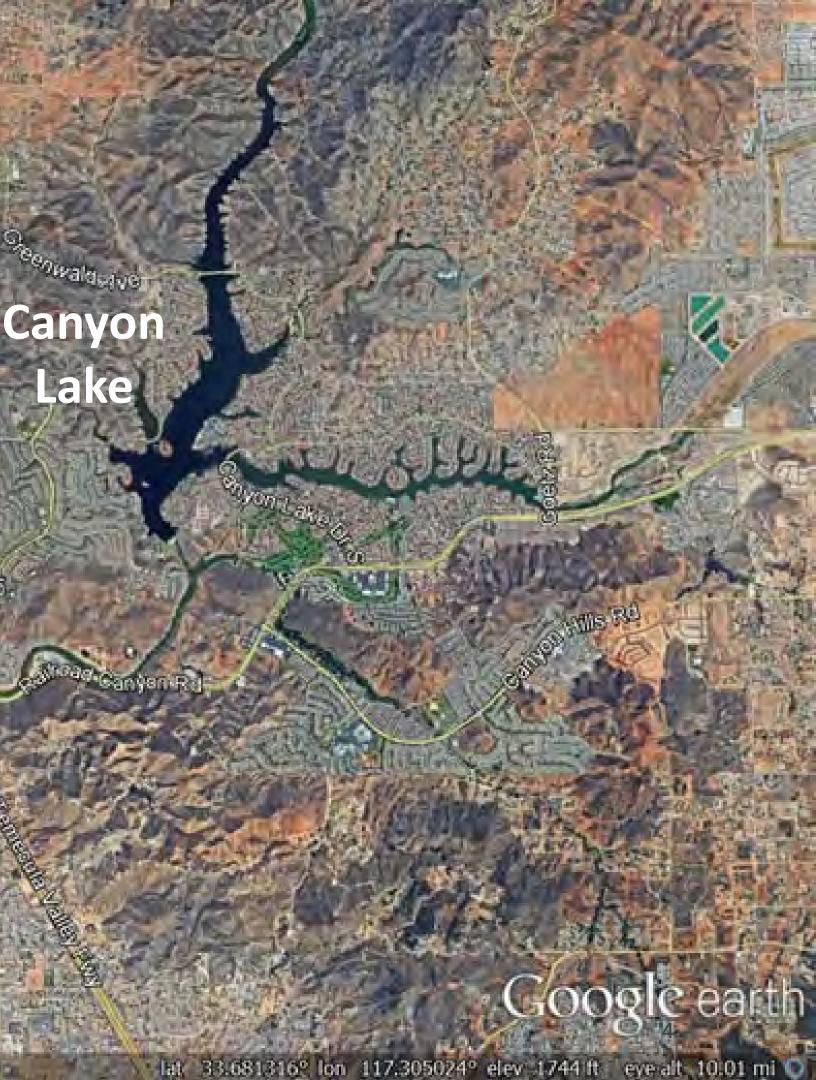
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Lake Elsinore and Canyon Lake <u>Basin Plan</u> Objectives and Impairments

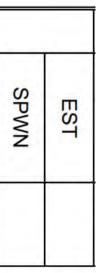
LAKES AND RESERVOIRS	BENEFICIAL USE																
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	
Peters Canyon, Rattlesnake, Sand Canyon, and Siphon Reservoirs	+	x						X4	x		x				x	x	
SAN JACINTO RIVER BASIN																	ļ
Canyon Lake (Railroad Canyon Reservoir)	x	x			x			x	x	x	х				x		
Elsinore, Lake	+							Х	Х	Х	Х				Х	X	
Fulmor, Lake	X	X						Х	Х		Х		Х		Х		
Hemet, Lake	X	X			X		X	Х	Х	Х	Х		Х		Х	X	
Mystic Lake	1							1	$ \mathbf{I} $		1			X	Х	X	
Perris, Lake	X	X	X	X	X			X	X	х	х		X		X	X	

X Existing or Potential Beneficial Use

.⁴ Access prohibited per agency/company with jurisdiction

I Intermittent Beneficial Use

+ Excepted from MUN (see text)



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- Nutrients (N, P)
- Low Dissolved Oxygen
- PCBs
- DDT
- Toxicity

Canyon Lake Nutrients (N, P)

Lake Elsinore and Canyon Lake WQ Problems

- Algal blooms
- Fish kills

Cause of WQ Problems

- Excessive phosphorus and nitrogen (nutrients)
- Depletion of oxygen

Sources of Nutrients

- Urban, agriculture, erosion, septic systems
- Nutrient loading occurs during large storm events





Impairments Triggered Need for TMDLs

Purpose and Goal of TMDLs

- Attain and maintain applicable water quality standards
- Account for seasonal variations
- Pollutant by pollutant basis

Implementation of TMDLs

- Identification of actions/activities (i.e., tasks)
- Numeric targets
- Incorporated into discharge permits



The 2004 TMDLs

Total Loads, Targets & Load Allocations



Lake Elsinore and Canyon Lake TMDL Task Force

- Water Quality Control Plan for the Santa Ana River Basin amended to include nutrient TMDLs for Canyon Lake and Lake Elsinore (2004)
 - DO, Chlorophyll a, Ammonia, Total Phosphorus (TP) and Total Nitrogen (TN)
 - Load Allocations (LA) and Waste Load Allocations (WLA) for discharge (non-point sources and point sources)
 - Implementation Plan (activities to meet water quality standards)
- Lake Elsinore & Canyon Lake TMDL Task Force formed by stakeholders (2005)
- LESJWA administers Task Force
 - Coordinate costs of all implementation efforts.
 - Implement TMDL Implementation Plan
 - Reviews TMDL Basin Plan Amendment

Task Force Agreement

LAKE ELSINORE & SAN JACINTO WATERSHEDS AUTHORITY



City of Lake Elsinore - City of Canyon Lake - County of Riverside Elsinore Valley Municipal Water District - Santa Ana Watershed Project Authority

TMDL Water Quality Objectives

Indicator	Lake Elsinore (by 2020)
Total Phosphorous	Annual average of <0.1 mg/L
Total Nitrogen	Annual average of <0.75 mg/L
Ammonia Nitrogen	Acute and Chronic calculated levels
Chlorophyll-a	Summer avg <25 ug/L
Dissolved Oxygen	>5 mg/L 1 meter above lake bottom

Canyon Lal	ke
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Same (by 2020)

Same (by 2020)

Same (by 2020)

Same (by 2020)

Daily avg in hypolimnion of >5 mg/L by 2015

Wasteload Allocations: Canyon Lake

Canyon Lake Nutrient TMDL	Final Total Phosphorus Load Allocation (kg/yr) ^{b, c}	Final Total Nitrogen Load Allocation (kg/yr) ^{b, c}		
TMDL	8,691	37,735		
Wasteload Allocations (WLA)	486	6,248		
Supplemental Water	48	366		
Urban	306	3,974		
CAFO	132	1,908		
Load Allocations (LA)	8,205	31,487		
Internal Sediment	4,625	13,549		
Atmospheric Deposition	221	1,918		
Agriculture	1,183	7,583		
Open/Forest	2,037	3,587		
Septic Systems	139	4,850		

^a TMDL allocations for Canyon Lake apply to those land uses located upstream of Canyon Lake ^b Final allocation compliance to be achieved as soon as possible, but no later than December 31, 2020 ^c TMDL and allocations specified as 10-year running average

Wasteload Allocations: Lake Elsinore

Lake Elsinore Nutrient TMDL	Final Total Phosphorus Load Allocation (kg/yr) ^{b, c}	Final Total Nitrogen Load Allocation (kg/yr) ^{b, c}		
TMDL	28,584	239,025		
Wasteload Allocations (WLA)	3,845	7,791		
Supplemental Water ^d	3,721	7,442		
Urban	124	349		
CAFO	0	0		
Load Allocations (LA)	21,969	210,461		
Internal Sediment	21,554	197,370		
Atmospheric Deposition	108	11,702		
Agriculture	60	213		
Open/Forest	178	567		
Septic Systems	69	608		
Canyon Lake Watershed ^e	2,770	20,774		

^a The Lake Elsinore TMDL allocations for urban, agriculture, open/forest, septic systems and CAFOs only apply to those land uses located downstream of Canyon Lake.

^b Final allocation compliance to be achieved as soon as possible, but no later than December 31, 2020.

^c TMDL and allocations specified as 10-year running average.

^d WLA for supplemental water should be met as soon as possible as a 5 year running average.

^e Allocation for Canyon Lake overflows.

Task Force Members for LECL TMDL Task Force

- Riverside County
- Riverside County Flood
 Control and Water
 Conservation District
 CA Dept. of Fish and Wildlife
- City of Beaumont
- City of Canyon Lake
- City of Hemet
- City of Lake Elsinore
- City of Moreno Valley
- City of Murrieta
- City of Menifee
- City of San Jacinto
- City of Riverside
- City of Perris

• City of Wildomar

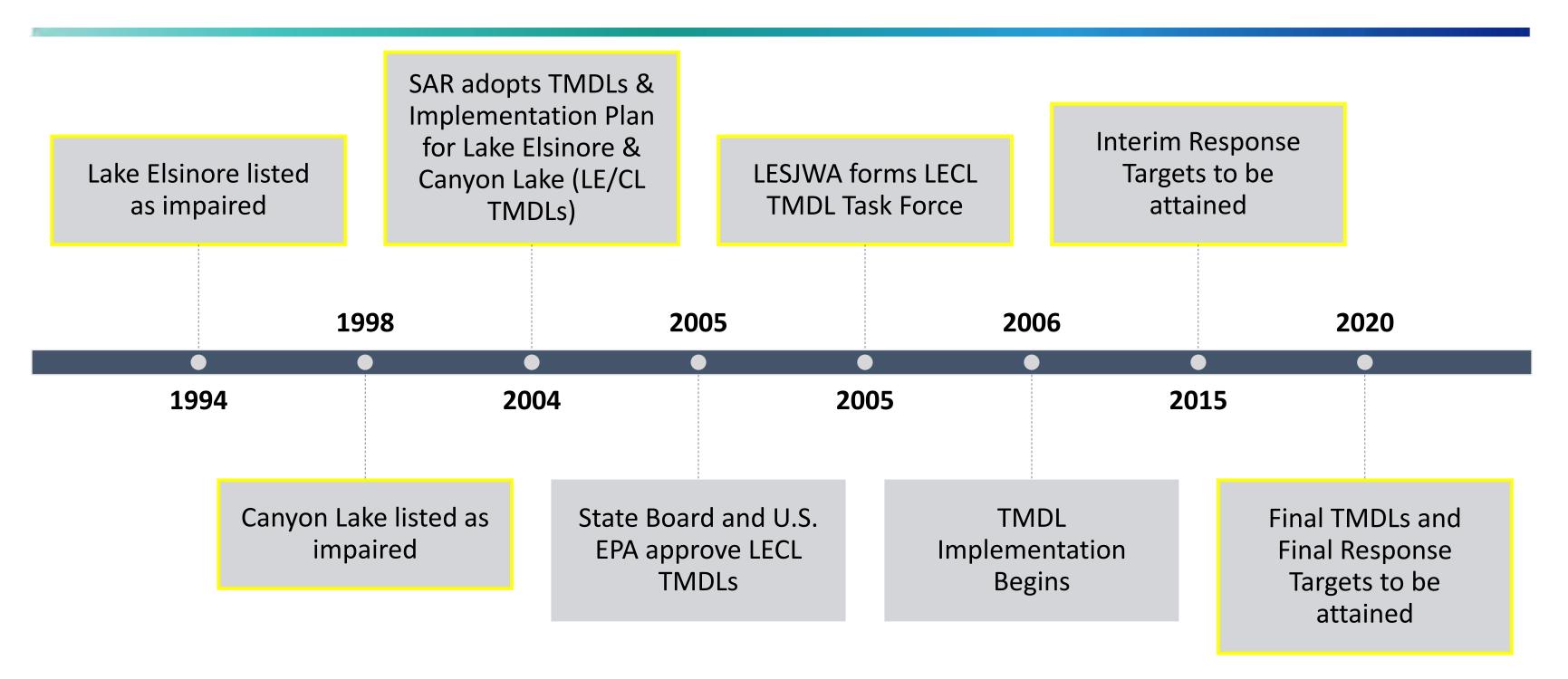
- Elsinore Valley Municipal Water District
- March Air Force Reserve JPA
- March Air Force Base
- Eastern Municipal Water District
- San Jacinto Ag Operators
- San Jacinto Dairy Operators

2004 TMDL Key Events

Timelines for TMDL compliance, implementation and related activities



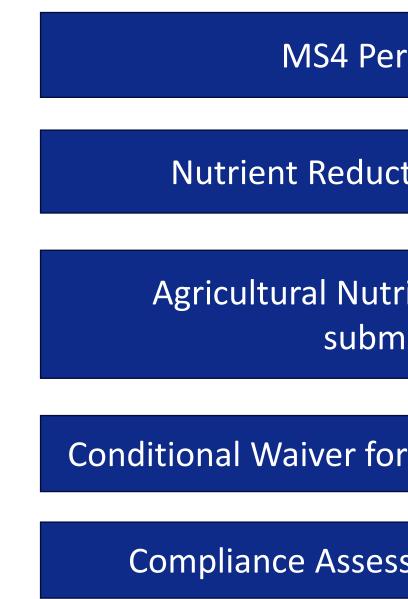
Timeline TMDL Key Events



Key Implementation Actions

Projects/Studies

- Recycled water to Lake Elsinore (2002)
- Carp Removal Program (2002-2008)
- Lake Elsinore Aeration & Mixing System (LEAMS) (2008)
- Application of Alum to Canyon Lake (2013)
- Draft Technical TMDL Report (2018)
- Ag Surface Runoff Water Quality Index (2019)
- Comprehensive Fish Survey Study (2020)





Regulatory

MS4 Permit included TMDLs (2010)

Nutrient Reduction Plan Implementation (2013/4)

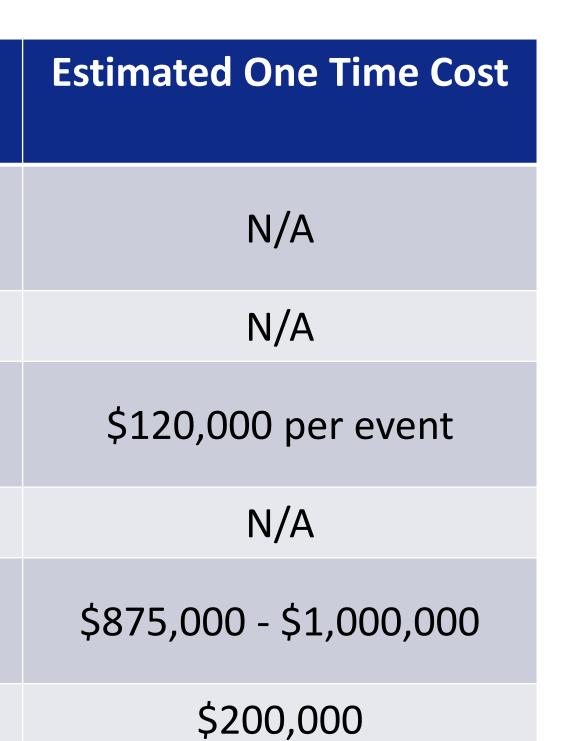
Agricultural Nutrient Management Program (AgNMP) submitted to Reg Board (2013)

Conditional Waiver for Agricultural Operations adopted (2013/6)

Compliance Assessment Report submitted to SAR (2020)

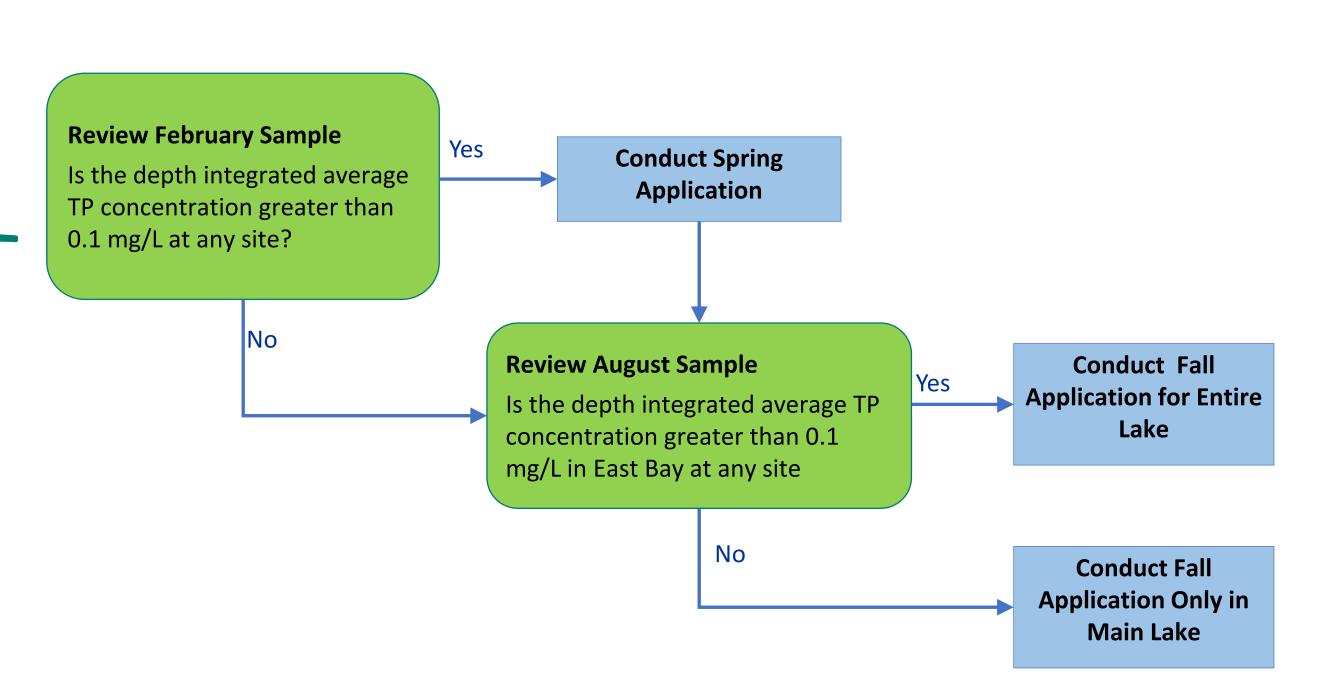
Task Force Investments

Activity	Estimated Annual Cost
Administration/Regulatory Facilitation	\$145,000
Monitoring & Reporting	\$235 <i>,</i> 000
Canyon Lake Alum Applications	\$240,000
LEAMS Operations & Offsets	\$125,000
2018 Draft TMDL Technical Report	N/A
2019-2020 Fisheries Study	N/A

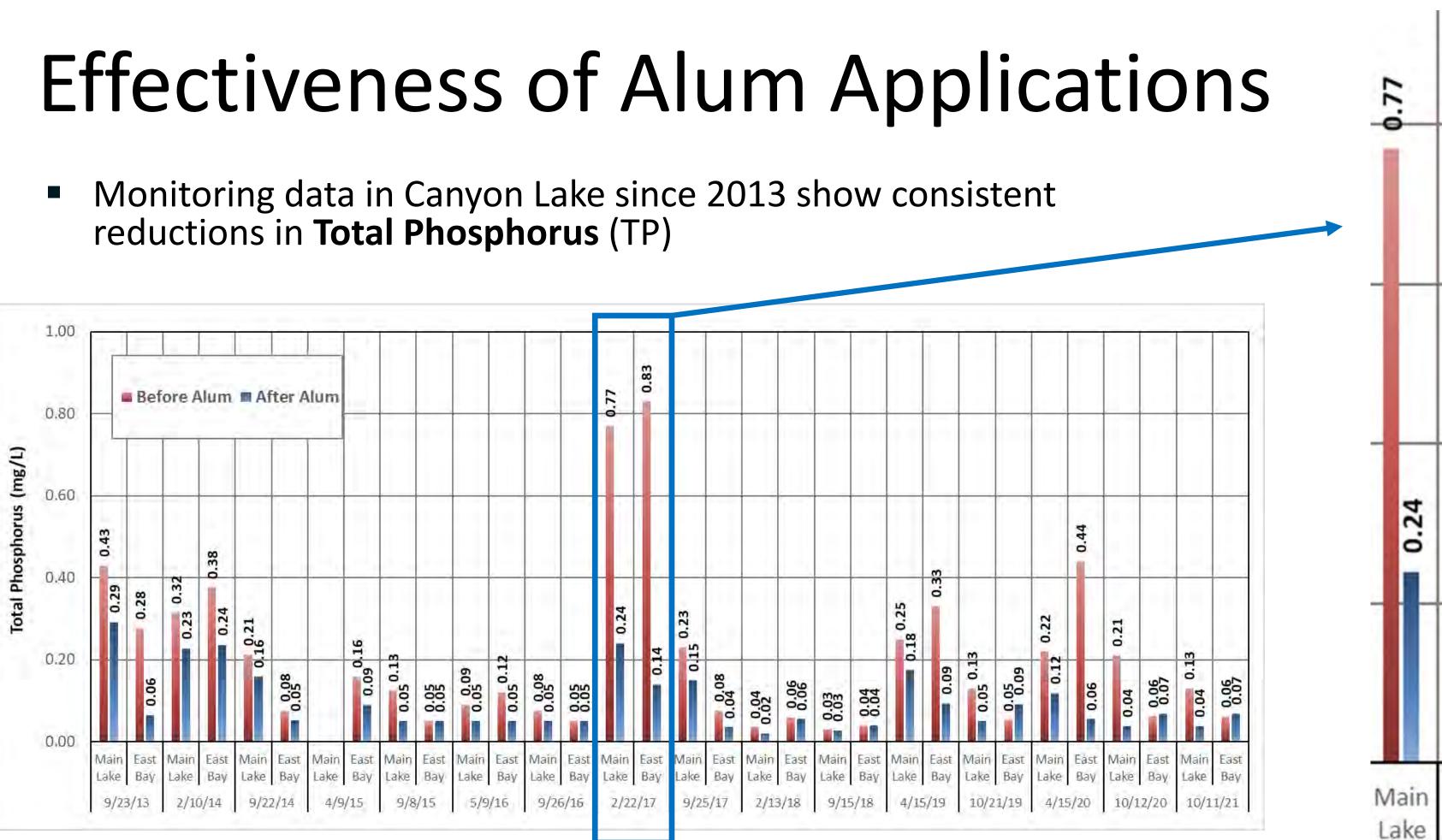


Routine Alum Application in Canyon Lake

- Alum binds to phosphorous removing it from the water column
- Alum applied lake-wide semi-annually in spring and fall seasons



reductions in **Total Phosphorus** (TP)



Note: before and after alum sampling dates 8 weeks apart

2/22/17

East

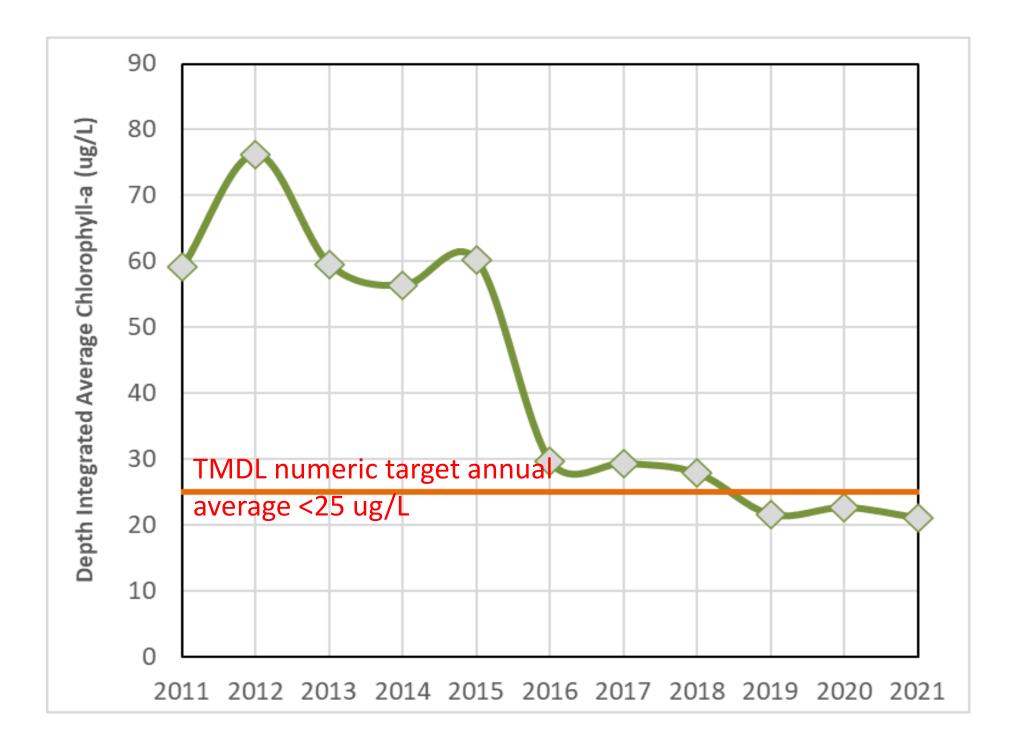
Bay

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Effectiveness of Alum Applications

- Routine, low-dose, alum additions in Canyon Lake
- Improved water quality that is meeting 2004 TMDL numeric targets for algae



Overflows to Lake Elsinore

Alum in Canyon Lake causes notable reduction in TP load to Lake Elsinore

Average Wet Weather Nutrients in Overflows to Lake Elsinore	TP (mg/L)	TN (mg/L)
Before Canyon Lake Alum	0.58	1.92
After Canyon Lake Aum	0.27	1.93

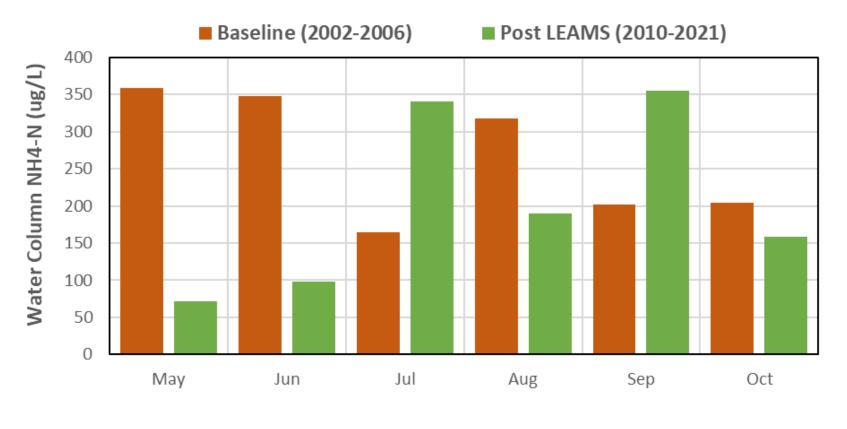


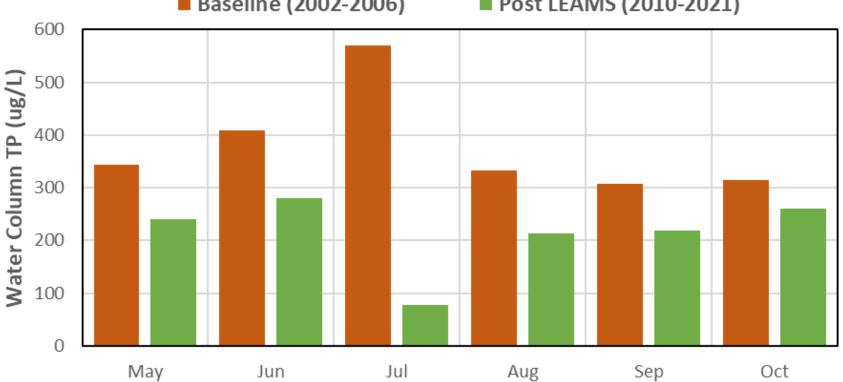


Photo from Wood, 2021 Annual Monitoring Program Report, March 10-15, 2021

Lake Elsinore Project Implementation

- Ongoing project implementation including LEAMS, fishery management, and reclaimed water addition
- Monthly effectiveness monitoring comparing nutrients in-lake during baseline (2002-2006) to post project period (2010-2021)
- Results during May-Oct period of LEAMS operation
- Data showed the lake produced sufficient oxygen during the winter months.





Baseline (2002-2006)

Post LEAMS (2010-2021)

2020 TMDL Compliance

TMDL	Final Total Phosphorus TMDL (kg/yr) ^{a, b}	
Canyon Lake	8,691	
Lake Elsinore	28,584	

^a Final compliance to be achieved as soon as possible, but no later than December 31, 2020 ^b TMDL specified as 10-year running average

In 2020, Stakeholders as a collective met the overall TMDL Allocations

Final Total Nitrogen TMDL (kg/yr)^{a, b}

37,735 230,025

But, Compliance with 2004 TMDL Is Not Enough

TMDL needs to be revised based on 20-years of new data & knowledge gained.



Goal 1 – Identify and manage **controllable watershed sources of nutrients** that flow into Canyon Lake and Lake Elsinore

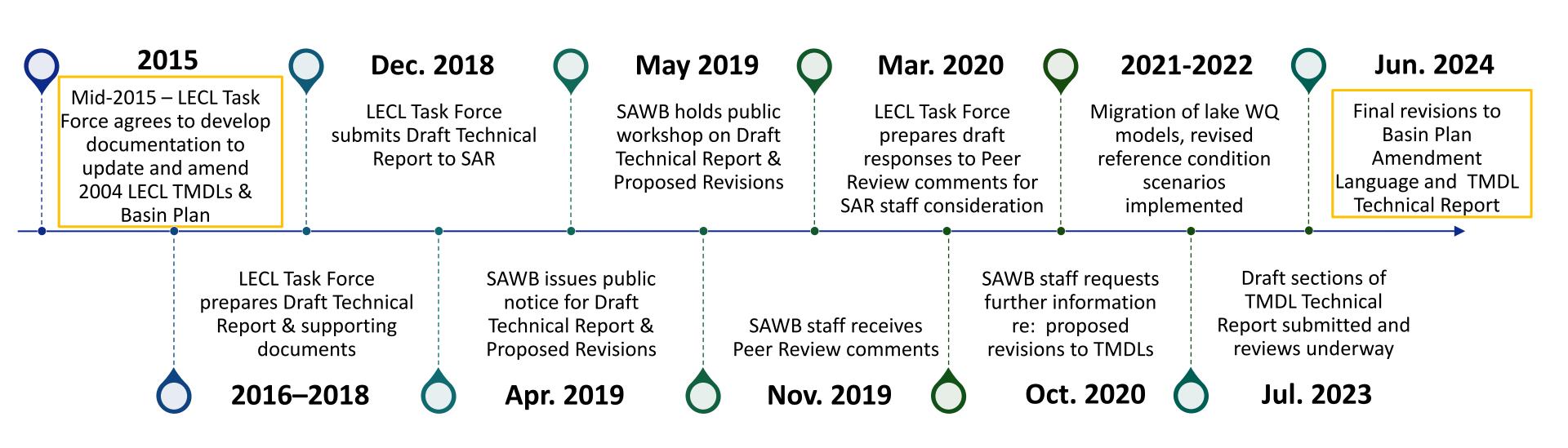
Goal 2 – Identify long-lasting **in-lake controls** that address sediment fluxes and dissolved oxygen levels for protection of aquatic life & recreational beneficial uses

Goal 3 – Identify **appropriate water quality criteria** for protecting beneficial uses in two dynamic lake systems

Goal 4 – Provide controllable sources with a **reasonable, feasible and practical pathway** for meeting appropriate water quality criteria

Goals of Revised TMDL

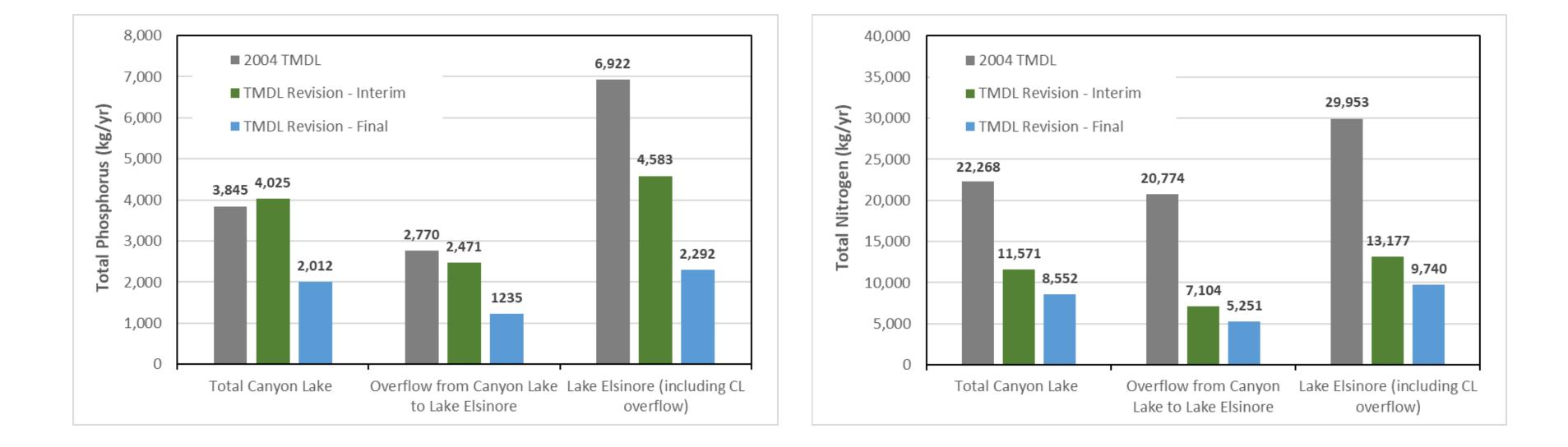
Timeline of TMDL Update



General Approach in the Draft Revised TMDL

- Numeric targets (chlorophyll a, dissolved oxygen, ammonia) expressed as cumulative distribution frequencies (CDFs)
- Waste load and load allocations for Total N and Total P based on reaching the reference condition
 - That is, natural occurring levels of Total N and P that would enter the lakes from the upper watershed)
- Reference condition defined as being the median and 25th percentiles of TP and TN data at Cranston Guard Station

Revised TMDL Targets



Draft Plan for Meeting the Interim TMDLs (Phase 2 – Years 1 through 20)

- Evaluate existing In-Lake Water **Quality Controls**
- Implement Preferred Options
- Special studies
 - Lake bottom sediment sampling
 - Cyanobacteria in Lake Elsinore
 - Fisheries Management
- Evaluate Final TMDLs/Revise if appropriate
- Update and continue monitoring plan



Draft Plan for Meeting the Final TMDLs (Phase 3 – Years 21 through 30)

- Evaluate In-Lake Water Quality Controls
- Implement new or revised controls, if necessary
- Identify additional load reductions necessary to meet Final TMDLs, and implement
- Special Studies
 - Lake bottom sediment sampling
 - Fisheries Management



Task Force Efforts Provide Significant Benefits for LESJWA



Conducts comprehensive watershed and in-lake monitoring



Conducts special studies to better understand lake dynamics



Provides resources for implementation of inlake controls through use of offset credits



Evaluates impacts of watershed and in-lake controls

Works closely with Santa Ana Water Board to address nutrient impairments by updating TMDLs



Collaborative Process including watershed stakeholders



Conducts special studies to evaluate fisheries resources

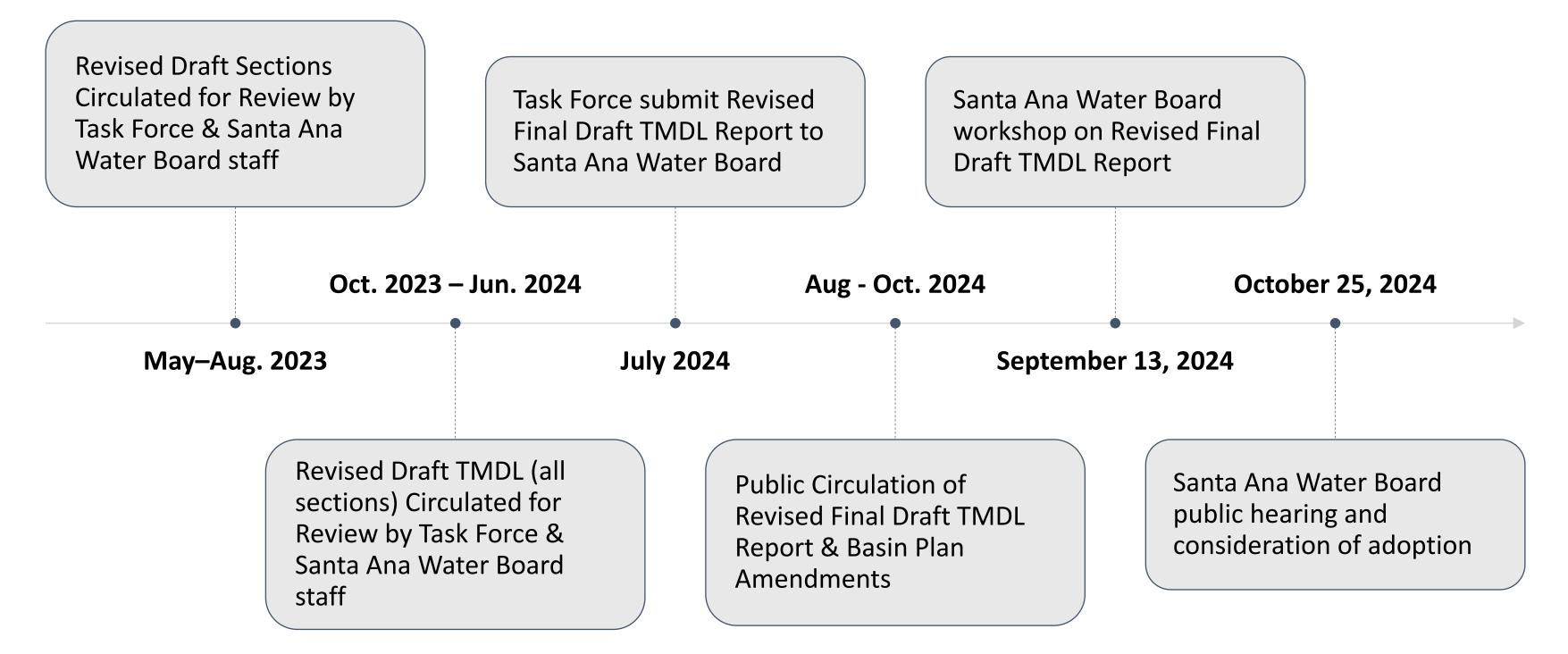


Uses best available science to identify appropriate water quality criteria for controlling nutrient impacts in the lakes



Cost savings to individual stakeholders

Timeline for Revised TMDL and Next Steps





Questions?



Thank You

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