

Proposition 84 (OWOW) Project Summary

Santa Ana Watershed Association (SAWA)





Santa Ana Watershed Association (SAWA)

- 501c3 non-profit organization
- *For 20 years, the Santa Ana Watershed Association (SAWA) and its partners have been promoting a healthy Santa Ana River watershed for the wildlife and the people who inhabit it.*



Santa Ana Watershed Association (SAWA)

- *A major goal of SAWA is to restore the natural functions of the watershed through the enhancement and restoration of the native riparian community.*
- SAWA has removed over 4,700 acres of Arundo and other invasive plants throughout the watershed
- Projects to support this effort
 - Endangered species monitoring
 - Brown-headed Cowbird management

The Least Bell's Vireo (*Vireo bellii pusillus*)



- Nests in riparian and adjacent habitat in southern California.
- State and Federally Endangered
- Cause
 - riparian habitat loss
 - brood parasitism by the Brown-headed Cowbird (*Molothrus ater*).



Cowbird Management



SAWA biologists deploy up to 50 cowbird traps every spring throughout the watershed to trap cowbirds before they lay eggs in the nests of native birds, such as the vireo.



Why this is important...

“In addition to cowbird control, vireo nest monitoring was one of the primary actions called for by the USFWS at the time of listing...in addition to its role in reducing nest parasitism, nest monitoring has provided an opportunity to collect long-term reproductive data”

USFWS

Source: https://www.fws.gov/carlsbad/SpeciesStatusList?RP?19980506_Draft%20RP_LBV.pdf



Proposition 84 (OWOW) Proposal

➤ Proposed Work Tasks

➤ Task 8 Implementation

➤ Sub-task 8.1 Vireo Monitoring

- 7 full-time and 2 part-time biologists survey riparian habitat throughout the Santa Ana Watershed
- Document Vireo locations at over 50 sites
- Determine breeding status and monitor nests at multiple sites
- Annual report to CDFW and USFWS under permit # TE839480
- Quarterly reports to SAWPA

➤ Sub-task 8.2

- Cowbird Management
- 7-8 field assistants monitored \geq 50 traps during nesting season
- 1 full-time assistant monitored winter traps at dairies



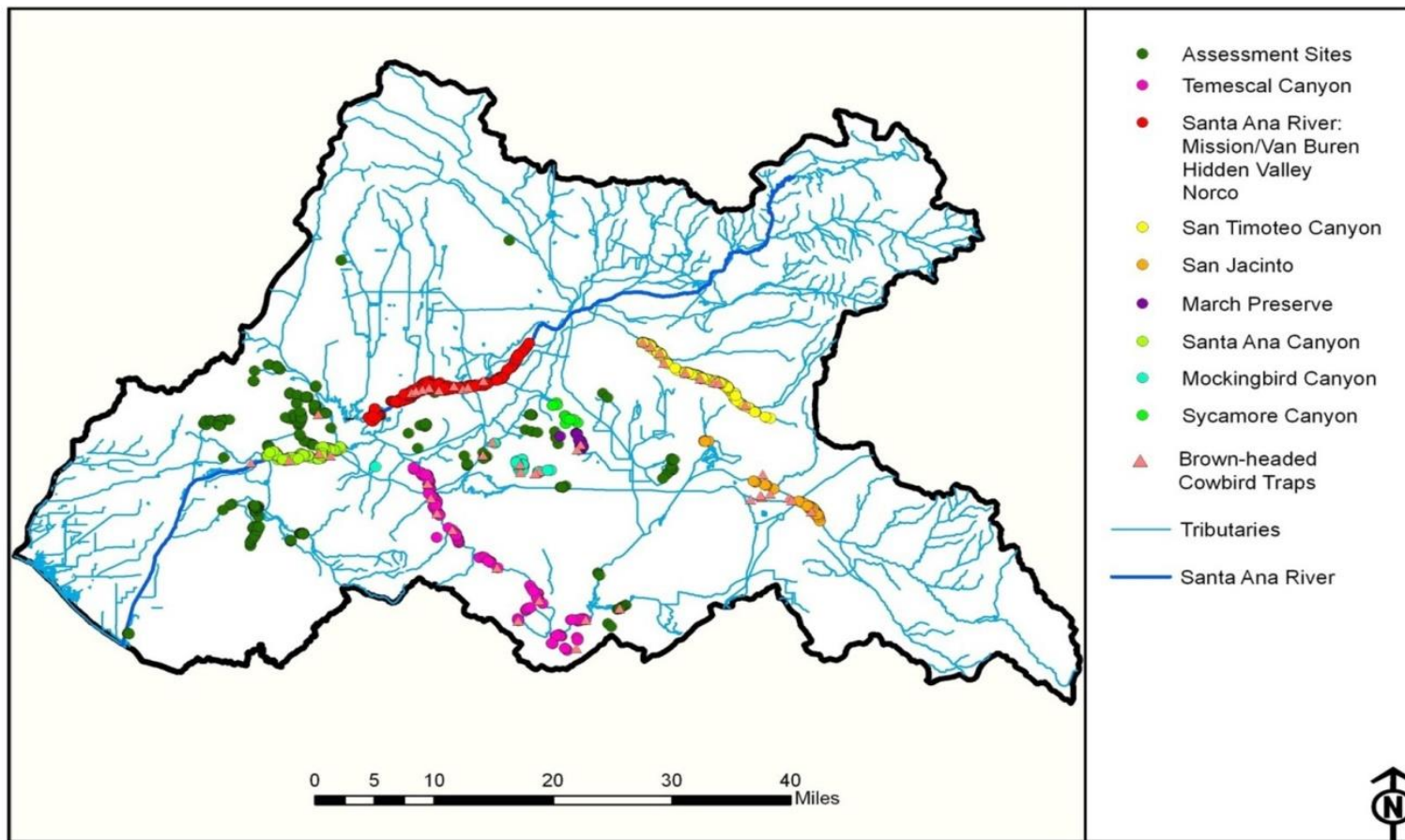
Prop 84 Round 1 Expenditures

Budget Category	SAWA Funds*	Proposition 84 Funds	Total
Direct project administrative costs	\$6,485	\$14,433	\$20,918
Construction/Implementation	\$262,723	\$584,772	\$847,495
Total	\$269,208	\$599,205	\$868,413

* Does not include mileage reimbursement and overhead



Least Bell's Vireo Survey Sites in the Santa Ana Watershed





Vireo Monitoring Results

➤ 2012

➤ 599 territories/380 pairs/494 fledglings

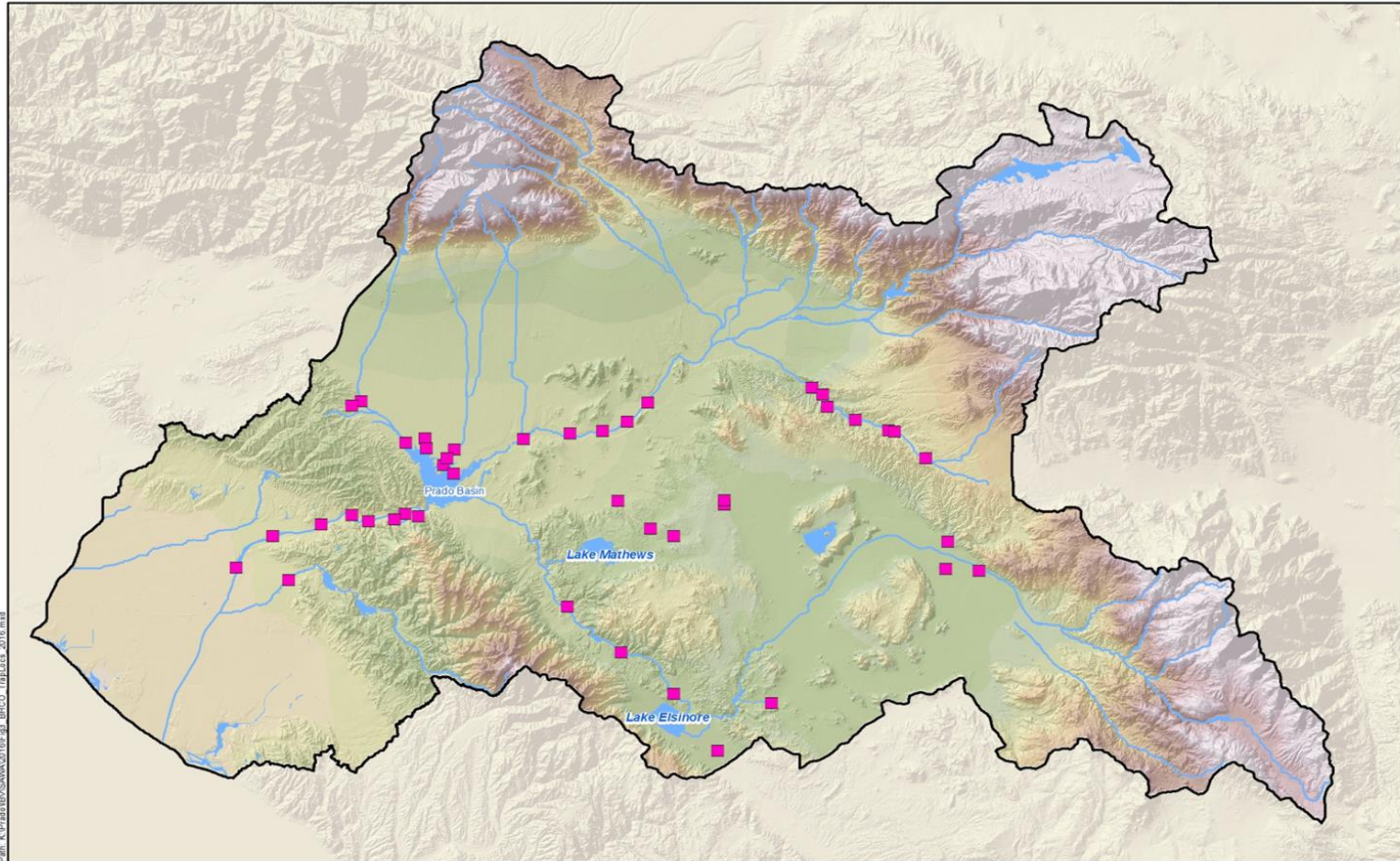
➤ 2013

➤ 769 territories/374 pairs/611 fledglings

➤ 2014

➤ 814 territories/390 pairs/472 fledglings

Cowbird Trap Locations



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■ Brown-headed Cowbird Trap Location

0 5 10
Miles

2016 Brown-headed Cowbird Trap Locations
in the Santa Ana Watershed





Cowbird Management Results

➤ 2012

➤ 2,823 cowbirds removed

➤ 2013

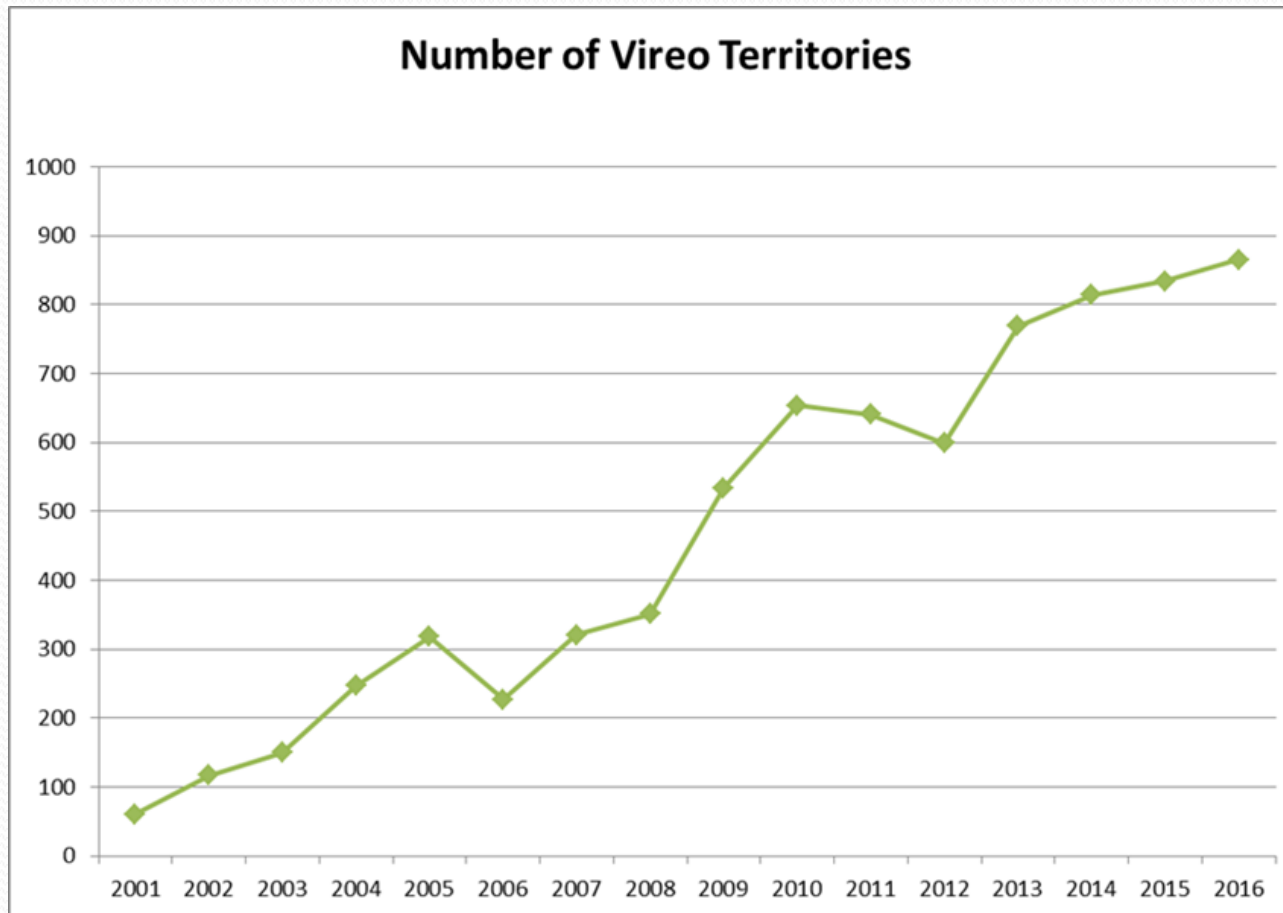
➤ 1,945 cowbirds removed

➤ 2014

➤ 1,271 cowbirds removed

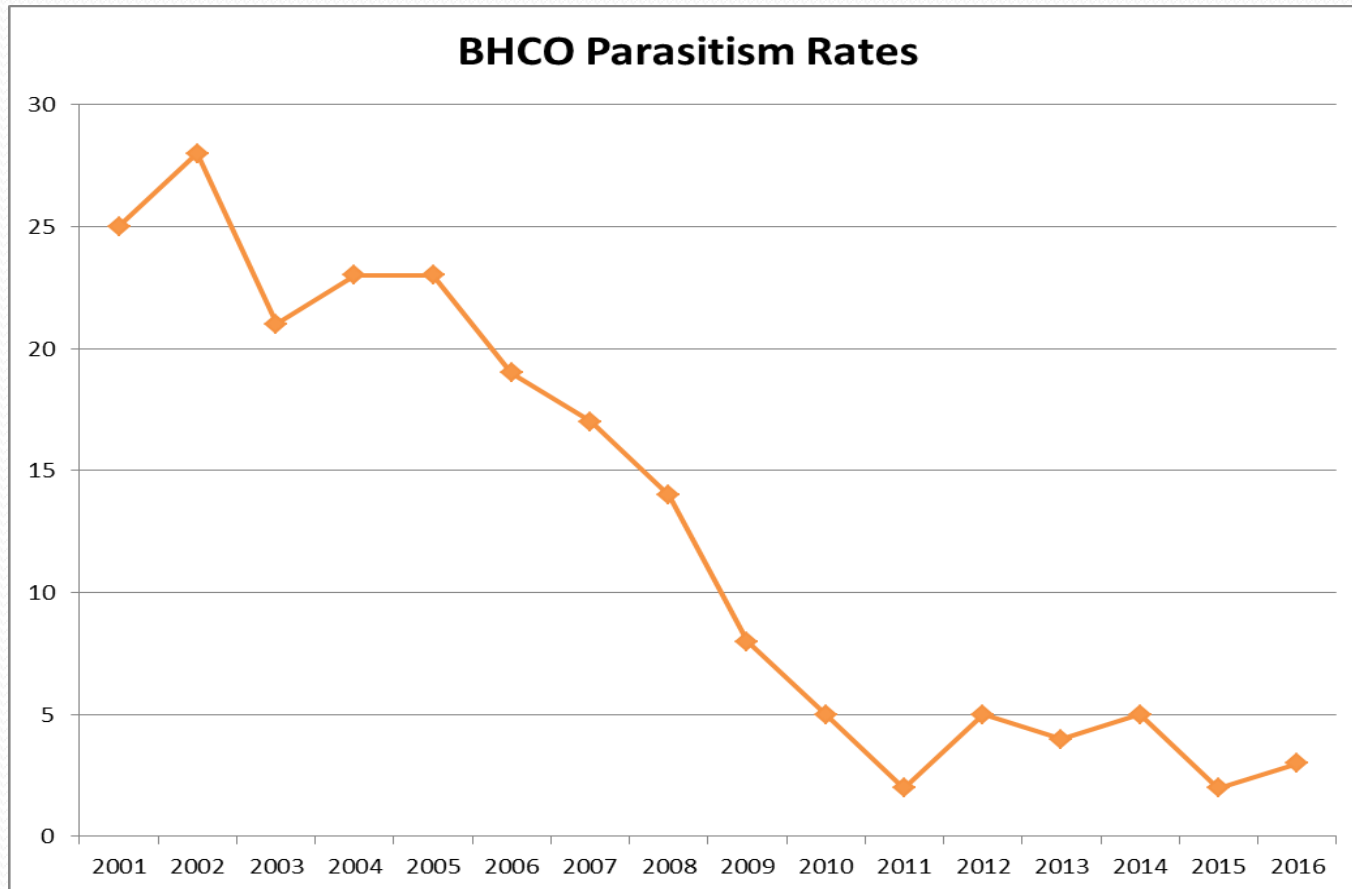


Long-term Monitoring Results (2001-2016)





Long-term Parasitism Results (2001-2016)



As Parasitism Rates Drop, Vireo Population Rebounds



Program Continues...

- ACOE through USFWS (2015-2017)
 - Vireo monitoring and Cowbird management watershed-wide
 - Winter Cowbird management
- ACOE Reach 3B funds (trust)
 - Annual Vireo monitoring and Cowbird management in San Timoteo
- Inland Empire RCD
 - Annual Vireo Monitoring at Goose Creek Mitigation
- Rivers and Lands Conservancy
 - Annual Cowbird management at Meridian
 - Bi-annual Vireo monitoring at Meridian



Conclusion

- Prop 84 Round-1 provided 3-years funding to this important long-term project.
- Vireo monitoring is essential to provide species presence documentation for ongoing projects, such as SAWPA's Brineline Rehabilitation and Enhancement.
- Cowbird management is vital to improved Vireo productivity at Mill Creek Wetlands and throughout the watershed.
- Vireo occurrence in the Santa Ana Watershed
 - Only **19** known territories in 2000 (when this program began)
 - Over **865** territories in 2016



Questions?

SARCCUP ARUNDO REMOVAL



Santa Ana River Conservation & Conjunctive Use Program

Greg D. Woodside/OCWD

SAWPA Commission

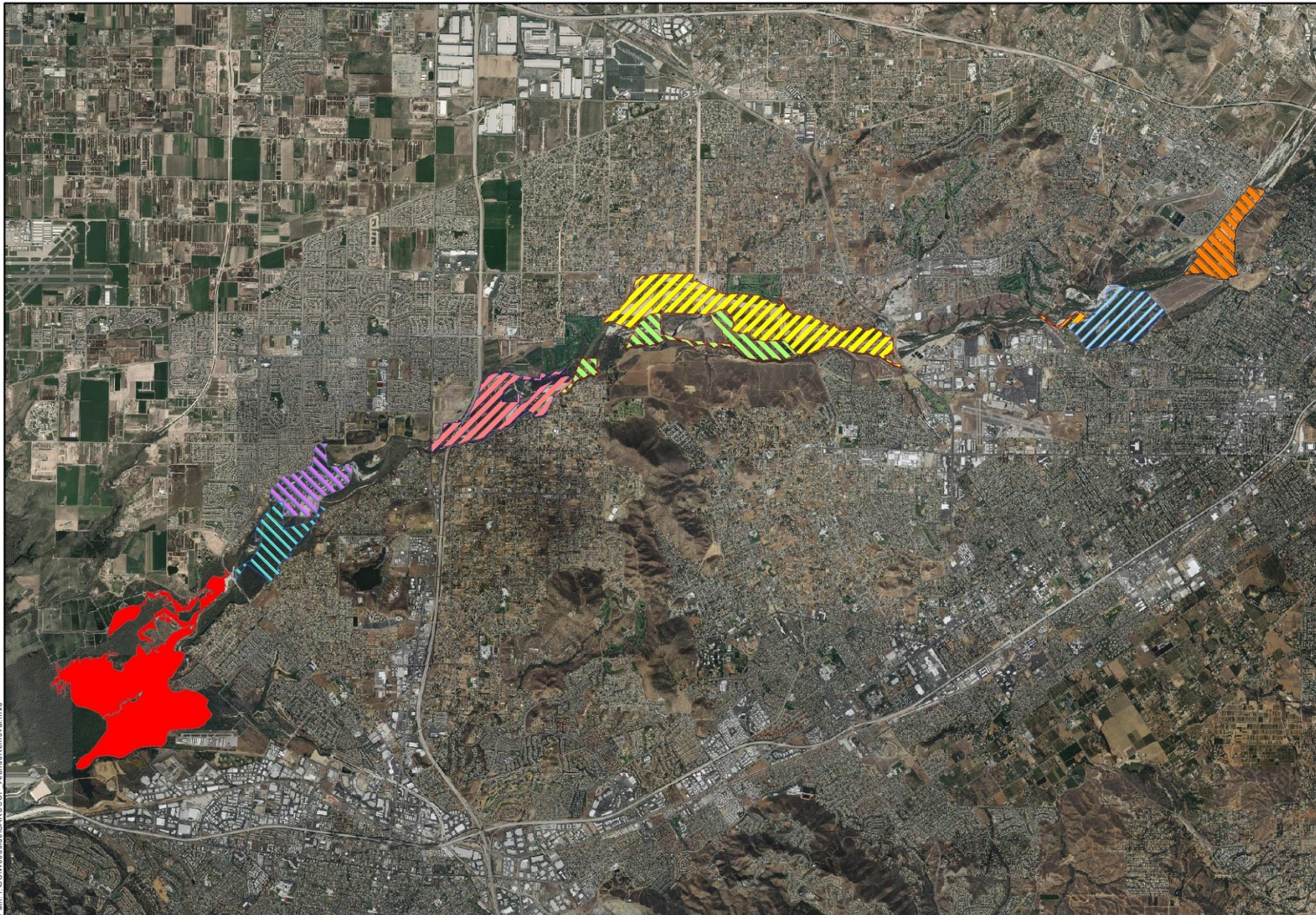
June 20, 2017

SARCCUP Elements include Arundo Removal

- 1 acre of Arundo Donax uses 3.75+ acre-feet more water per year than native habitat
- SARCCUP will remove 640 acres of Arundo Donax
 - 2,400 AFY of water conserved
 - Provides for restoration of native riparian habitat
 - Fire and flood risk reduction benefits



Path: I:\S\Woodlands\SARCCUP_ArundoRemoval.mxd



- | | | |
|--|---|--|
| Mission Blvd - Tequesquito Dump: 216 acres (7 acres) | PAR Project: 730 acres (25 acres) | Norco Burn: 361 acres (7 acres) |
| Mission 4 Arundo: 301 acres (9 acres) | PAR Expansion: 265 acres (10 acres) | ACOE 250 Acre Project: 250 acres (200 acres) |
| Mission 4 Arundo Expansion: 25 acres (1 acre) | OCWD - SAWA Land Agreement: 213 acres (149 acres) | Prado Basin: 9893 acres (1,043 acres) |





SARCCUP Arundo Removal

Mission 4 Arundo Expansion



Legend

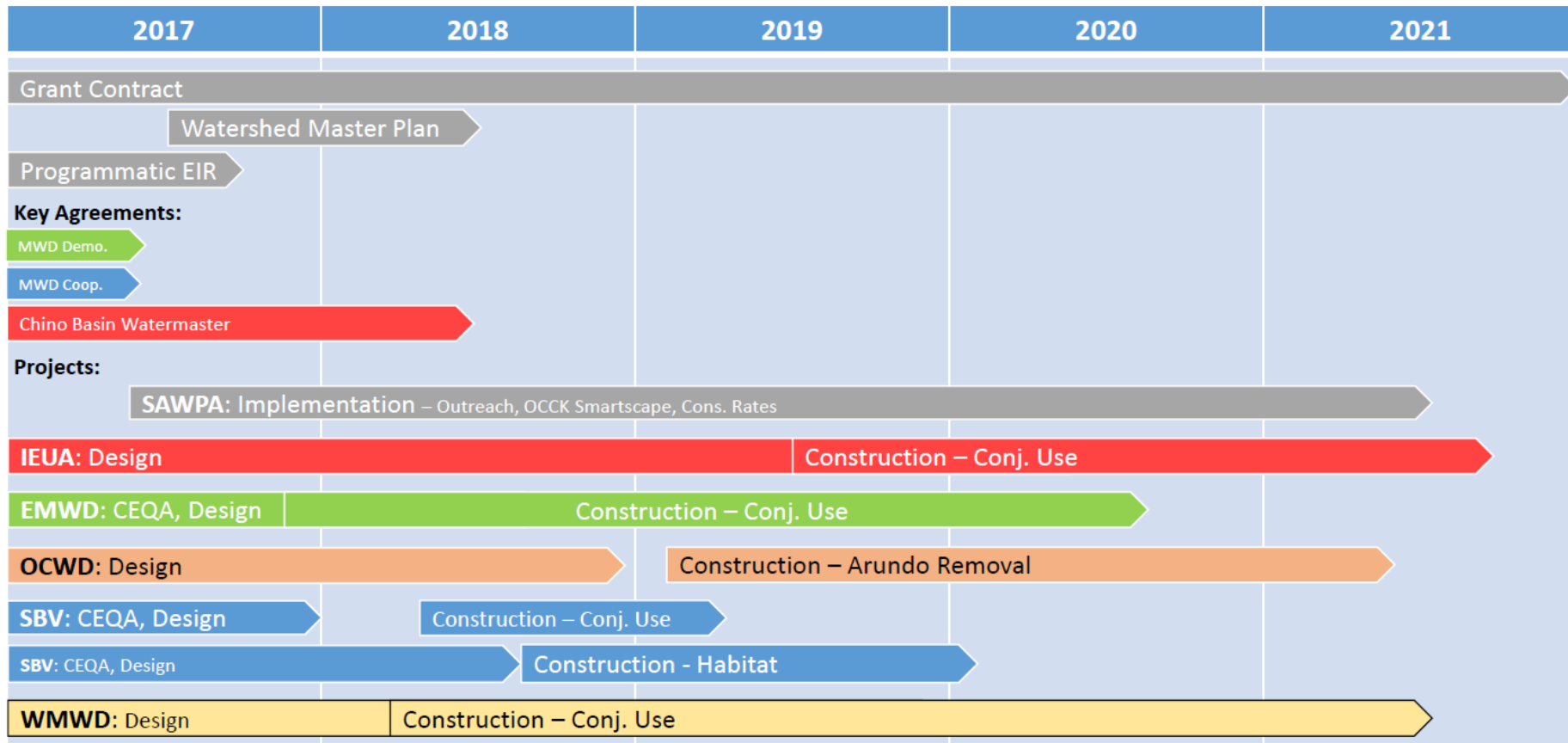
-  Mission 4 Arundo Expansion - Project Acreage ~ 25 Acres, Current Infestation ~0.04 Acres
-  Arundo Re-Growth

Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Community



NAD 83
5/16/17 JL
Mission 4 Arundo Expansion
Map produced by SAWA

SARCCUP Schedule Roll-Up (By Agency)



Reach V Repair Project

- Total Project Cost \$32.3M
 - FY 13-16 actuals
 - FY17 Projection
 - FY 18, FY19 Budget
- Expenditures to Date \$17.3M
- Projected Expenditures \$15M
 - Remainder FY 17
 - FY 18, FY19



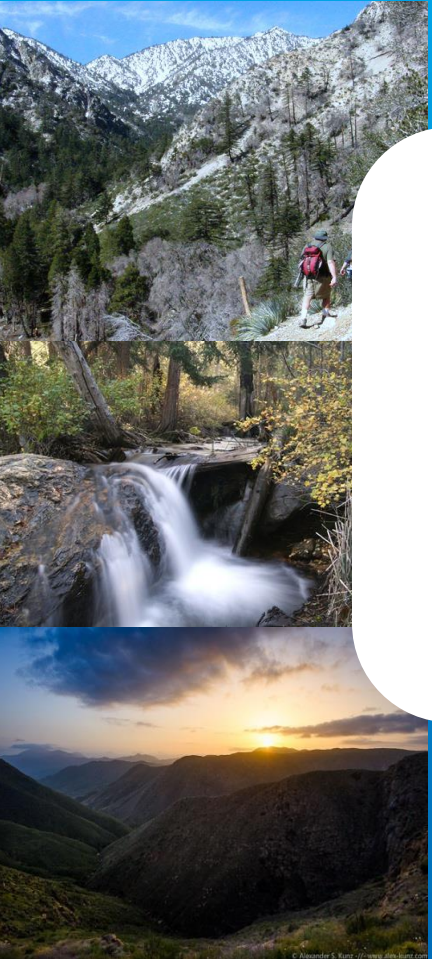
Reach V Capital Repairs

FYE	Budget	Actual (Est)
2013	\$0	\$211,774
2014	1,813,286	466,100
2015	4,947,771	3,443,385
2016	13,415,393	6,451,141
2017	85,124	6,933,517
2018	14,487,574	14,487,574
2019	269,167	267,167
Total		\$32,262,658

Budget	Actual (Est)
FYE 2014 & 2015	
6,761,057	3,909,485
FYE 2016 & 2017	
13,500,517	13,324,575
FYE 2018 & 2019	
14,756,741	14,756,741

Final Actual Projections

	Budget/Contract	Actual	Remainder of	Total
	Amount	thru 4/30/17	FY17, Plus FY18/19	
SAWPA Labor	562,390	520,247.65	268,381	788,629
Benefits	244,581	226,513.23	116,904	343,417
G&A Costs	888,810	832,077.58	375,899	1,207,977
Charles King Company	12,567,000	5,584,956.32	-	5,584,956
Weka	17,563,000	6,174,237.51	11,388,762	17,563,000
Vali Cooper	2,917,000	1,848,950.10	993,500	2,842,450
Dudek	985,000	775,734.20	182,800	958,534
Ninyo and Moore	50,000	41,735.00	-	41,735
Ramtech Laboratories	50,000	38,999.00	-	38,999
PSILabs	46,000	-	40,000	40,000
Pechanga	29,000	18,796.44	7,000	25,796
Mobile Mini	7,000	4,165.27	1,608	5,773
Hammons Strategies	68,000	48,750.00	19,250	68,000
EMWD	69,281	69,281.10	-	69,281
RMC	100,000	98,435.51	-	98,436
Legal	1,500,000	805,833.26	1,674,167	2,480,000
Other Expenses	105,674	100,504.20	5,170	105,674
TOTAL		17,189,216.37	15,073,442	32,262,658



FOREST F↑RST

Commission Meeting
June 20, 2017

Ian Achimore
Senior Watershed Manager



Critical Success Factors



- SAWPA has a strong reputation as a watershed-wide, knowledgeable, neutral and trusted **facilitator, leader, and administrator** of contracted activities.



- Report and use results of roundtable's work, **leverage information** and involvement for the benefit of SAWPA, its members, and other stakeholders.

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Background

- Approx. 30% of watershed managed by Forest Service
- Estimated that 90% of the annual precipitation falls on headwaters
- Memorandums of Understanding (2011 and 2017)



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Roundtable Structure

- No direct funding from outside entities (such as water agency partners or US Forest Service)
- As discussed in 2017 MOU approval, Basin Planning General (Fund 370-01) provides funding for SAWPA staff
- SAWPA is endeavoring to find partners and funding support

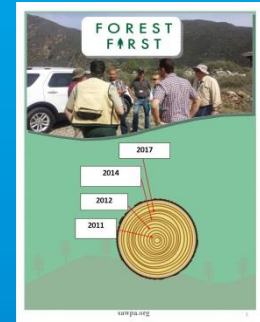


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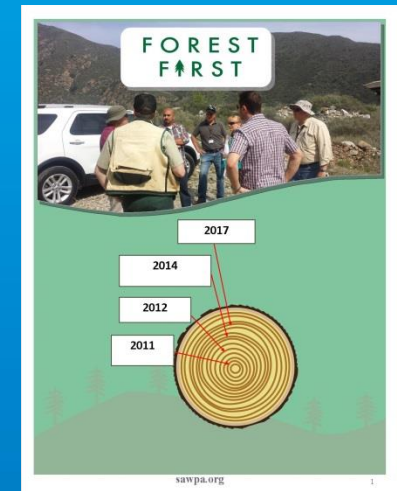
Overview of Forest First Update

- Forest First educational document
- Proposed implementation project with Califia Farms
- Blue Forest Conservation public-private partnership



Educational Document

- Purpose:
 - Inspire membership
 - Educate state and federal legislatures
 - Communication tool for Commission
- Describes past efforts and future work



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Project Implementation with Califia Farms



- Worked with Climate Resolve, the organization that highlighted opportunity with Califia
- Looked into Califia as legitimate organization
- Worked with San Bernardino National Forest on identifying fuel break project
- Quantified downstream benefits using past Forest First study
- Drafted formal proposal

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Potential partnership with Blue Forest Conservation

- Public-private partnership for funding projects on forest lands through a bond agreement
- Public utility and forest service share in costs and serve as financial backers of the bond
- Private investors front costs
- Blue Forest Conservation role:
 - 1) securitizes illiquid assets (such as water quality or water supply benefits) from forest land projects
 - 2) identifies entities to invest in these assets
 - 3) Creates bond based on promise by Forest Service and beneficiaries to repay

Role for Forest First in Blue Forest Conservation's Bond

- Implements Forest First MOU by following through on proactive planning and providing resources to implement projects
- Delivers on Commission's emphasis for implementing projects on forest lands
- Quantifies benefits to downstream agencies and the public
- Creates lessons learned for the watershed for future private-public partnerships

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Next Steps

- Meeting with Blue Forest Conservation and Forest Service to identify agreement type
- Identify project(s) with downstream benefits
- Preliminary quantification of benefits
- Identify downstream beneficiaries
- Beneficiaries enter into agreements with Blue Forest Conservation

Forest Agency



Water Agency



Partnership

**FOREST
FIRST**



Recommendation

- Receive and file.



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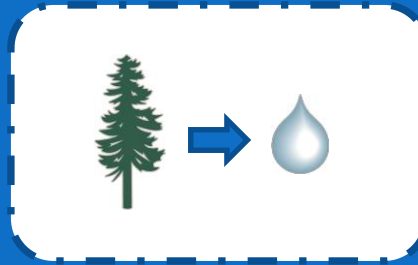
Back up information



Status of Funding

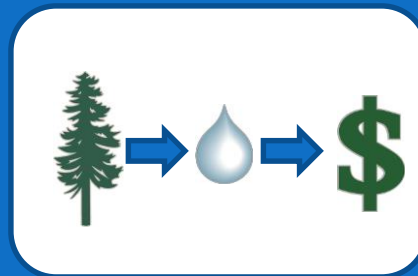
Blue Forests Role

No dollar value for benefits



Work with beneficiaries to identify project with benefits

Dollar value per benefit created



Securitize benefits from project

Investors purchase bond



Execute bond agreement with beneficiaries; approach investors

Bond repayment



Verify benefits

Benefits of MOU

- Brings water agencies to the table with Forest land managers who manage 30% of the watershed.
- Can facilitate projects that assist water agencies and flood control agencies in meeting their missions.
- Allows the Forests to apply for grant funding.
- Serves as an umbrella agreement giving not just SAWPA but the SAWPA member agencies an ability to partner with the National Forests.

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Actions for 2017 MOU

- Possible tasks to implement under MOU:
 - **Invasive plant** removal including tamarisk and grape (projects ongoing);
 - North Main Divide **Fuels Reduction** Project (currently implemented);
 - **Water quality monitoring** on water bodies listed by the Regional Board for impairments (ongoing);
 - Partnership studies and removal programs for the Shot Hole Borer **invasive beetle** (studies ongoing; removal programs to be determined);
 - **Public-private** funded forest management projects with downstream utilities funding forest management after downstream benefits are realized through monitoring (timeline to be determined);
 - OWOW Round 2 project and the related downstream **water benefits analysis** (2017-18);

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Santa Ana River Watershed Water Quality Monitoring Programs – Status Report

Rick Whetsel

SAWPA Commission

July 18, 2017



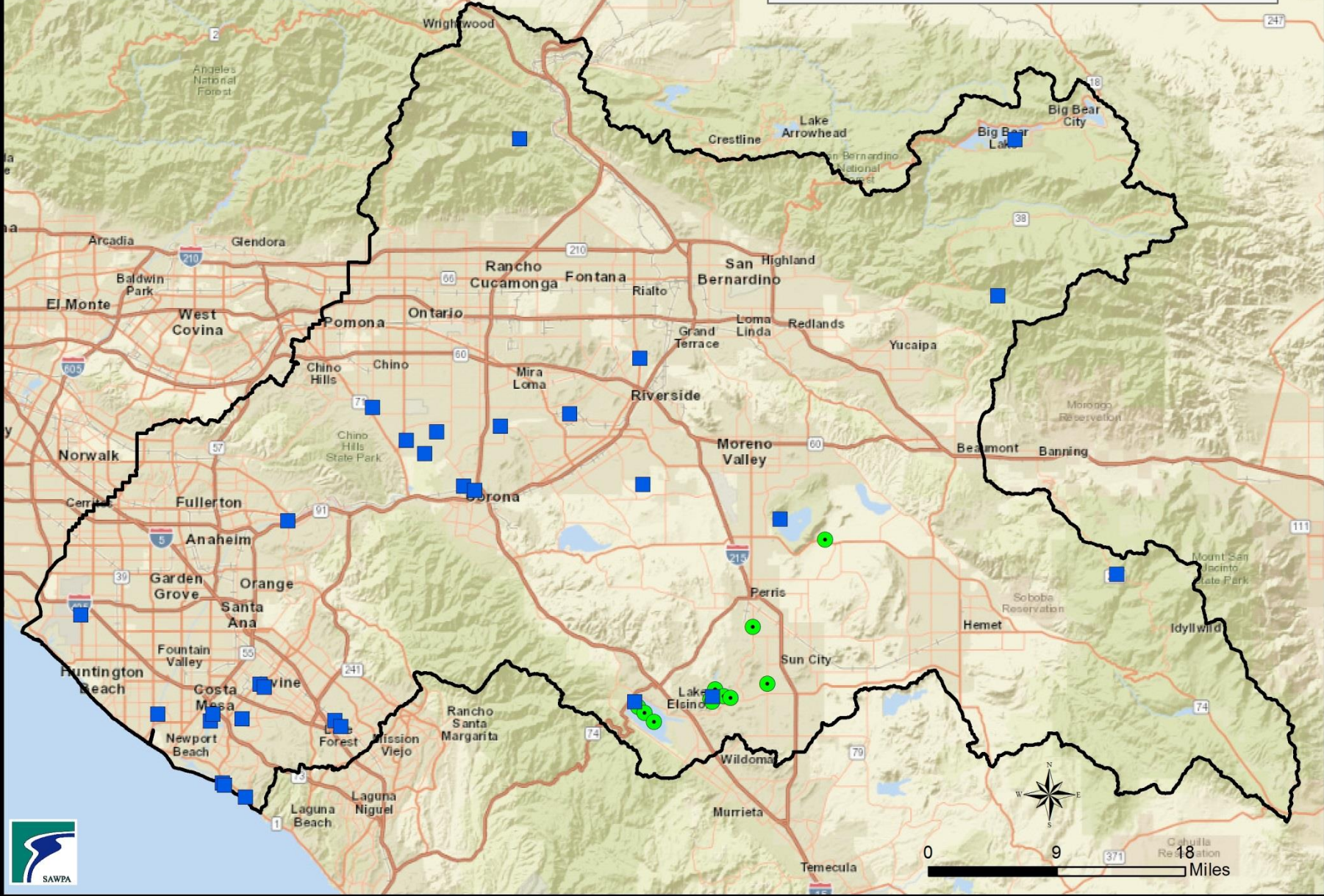
Critical Success Factors

- SAWPA has a strong reputation as watershed-wide, knowledgeable, neutral and trusted facilitator, leader, and administrator of contracted activities.
- Goals, scope, costs, resources, timelines, and the contract term are approved by the Commission before executing an agreement to participate in a roundtable group.
- Report and use results of roundtable's work, leverage information and involvement for the benefit of SAWPA, its members, and other stakeholders.
- Adequate professional staff and resources to effectively provide facilitation, management, administrative and technical support to collaborative work efforts.



Monitoring Programs Santa Ana River Watershed

- SARW Bacteria
- Lake Elsinore & Canyon Lake



SAWPA's Role

- SAWPA's role in supporting stakeholders in administering these monitoring efforts includes but is not limited to the following:
 - Acting as contracting party and contract administrator for the various consultant teams conducting the monitoring
 - Reviewing quarterly and annual water quality monitoring reports
 - Oversight on data management through CEDEN
 - Reviewing annual budgets and processing invoices



Regional Water Quality Monitoring Program

Middle Santa Ana River Pathogen TMDL Task Force

- **January 2006** - SAWPA approved Agreement
- **May 2007** - EPA Approves MSAR TMDLs

Stormwater Quality Standards Task Force

- **May 2003** - SAWPA approved Agreement
- **June 2012** – Regional Board adopts Basin Plan Amendment Revising Recreation Standards for Inland Freshwaters
- **April 2015** - EPA Approves Basin Plan Amendment Revising Recreation Standards for Inland Freshwaters

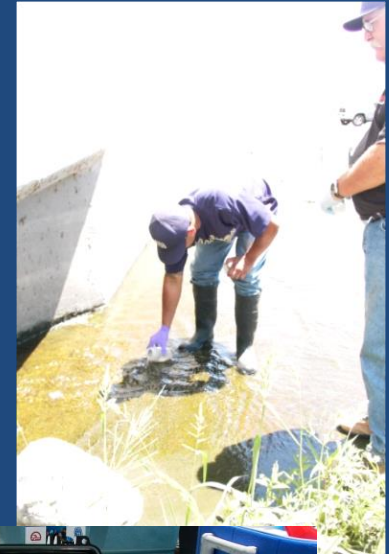
Regional Water Quality Monitoring Program

- **March 2016** – Regional Board approves Santa Ana Watershed Bacteria Monitoring Program and Quality Assurance Project Plan



Santa Ana River Bacteria Monitoring Program

- Regional Water Quality Monitoring Task Force implements a coordinated regional surface water quality (bacteria) monitoring program:
 - Meet the requirements of the Basin Plan Implementation Plan bacterial indicator monitoring requirements
 - Support consolidation and standardization of regional programs such as the Middle Santa Ana River Bacteria TMDL
 - Assist Regional Board with future triennial reviews and future amendments of the Basin Plan
 - Annual reporting to Regional Board (June)



Funding Partners

Regional Water Quality Monitoring Task Force

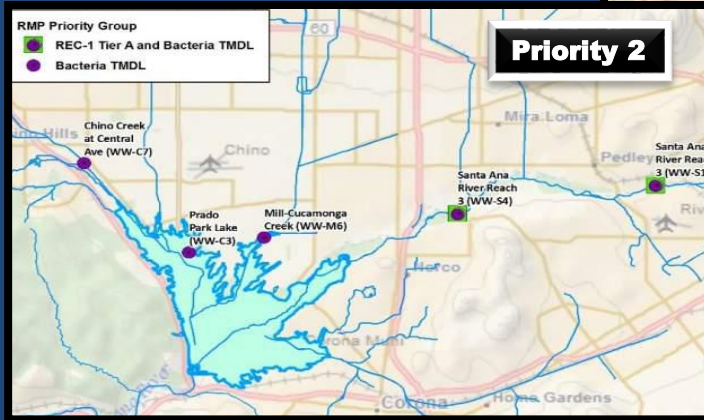
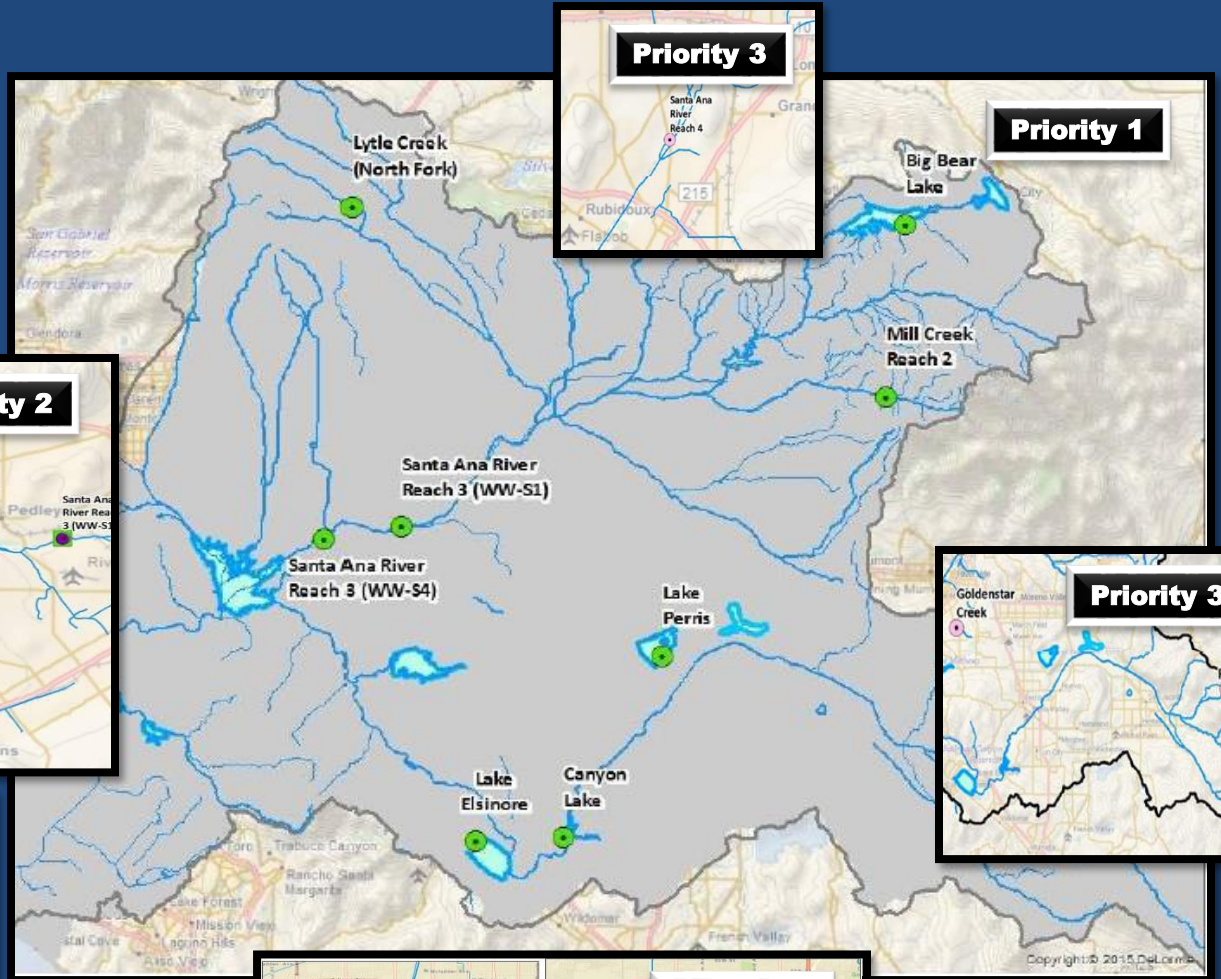
- **County of Orange**
- **Riverside County Flood Control & Water Conservation District**
- **San Bernardino County Flood Control District**

Middle Santa Ana River Bacteria TMDL Task Force

- **San Bernardino County Flood Control District representing the Cities of**
 - **Cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Rancho Cucamonga, Rialto, and Upland**
- **County of Riverside**
- **City of Claremont**
- **City of Corona**
- **City of Norco**
- **City of Pomona**
- **City of Riverside**
- **Agricultural Operators represented by Chino Basin Watermaster Agricultural Pool**

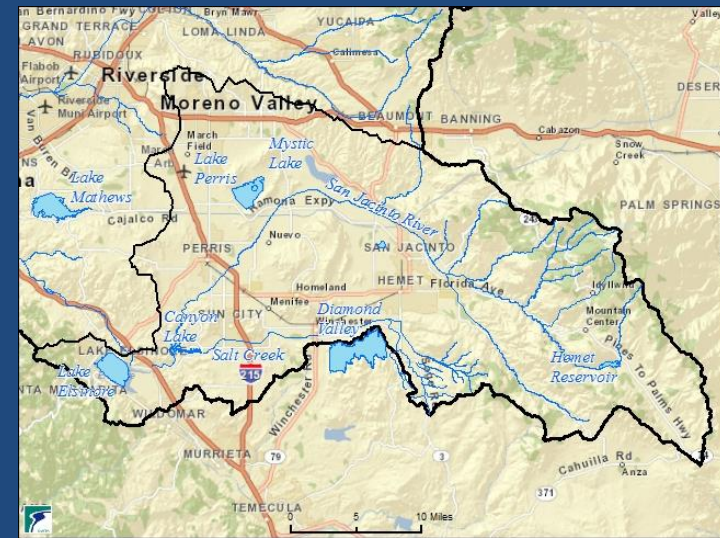


Monitoring Areas



Lake Elsinore & Canyon Lake Nutrient TMDL Monitoring program

- In 1994, both Lake Elsinore and Canyon lake were identified for excessive levels of nutrients
 - Lake Elsinore - organic enrichment/low dissolved oxygen (DO), sedimentation/siltation, unknown causes of toxicity
 - Canyon Lake - high bacterial indicators
- In 2000, the RWQCB initiated the development of nutrient TMDLs
- In 2006, the TMDLs were adopted and stakeholders were required to prepare and implement a Nutrient Monitoring Program



Funding Partners

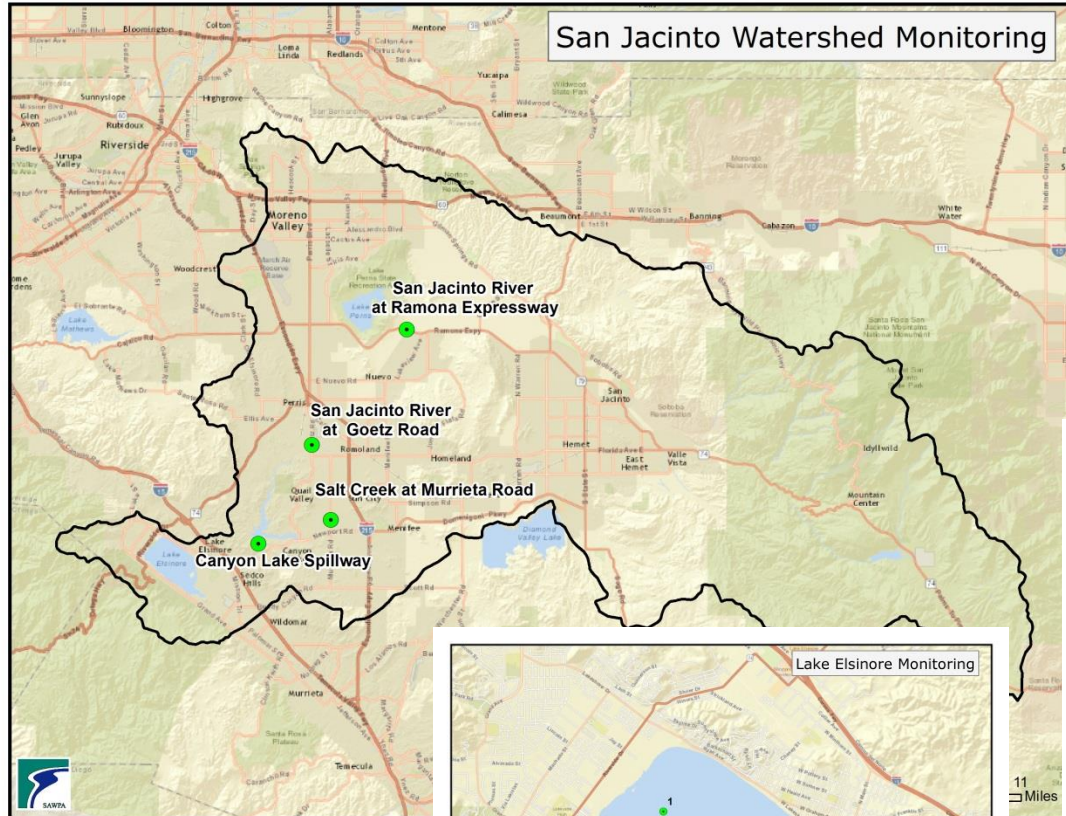
Lake Elsinore & Canyon Lake Nutrient TMDL Task Force

- **County of Riverside**
- **City of Beaumont**
- **City of Canyon Lake**
- **City of Hemet**
- **City of Lake Elsinore**
- **City of Moreno Valley**
- **City of Murrieta**
- **City of Perris**
- **City of Riverside**
- **City of San Jacinto**
- **City of Menifee**
- **City of Wildomar**
- **Elsinore Valley Municipal Water District**
- **Western Riverside County Agricultural Coalition acting on behalf of the Agricultural Operators and Dairy Operators in the San Jacinto River Basin**
- **California Department of Transportation (CalTrans)**
- **California Department of Fish and Game**
- **Eastern Municipal Water District**
- **March Air Reserve Base Joint Powers Authority**
- **U.S. Air Force.**

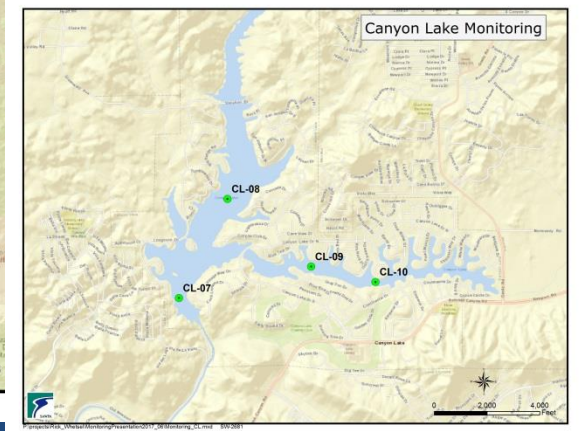
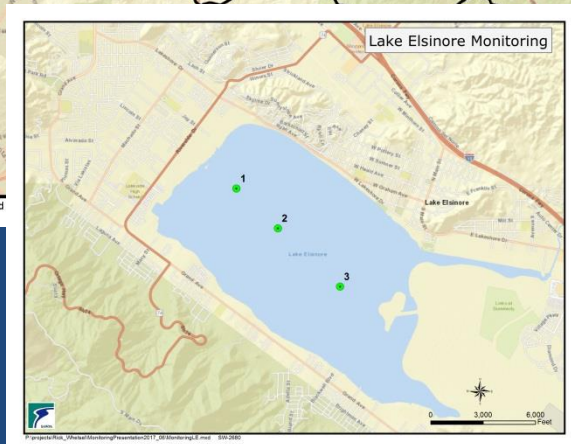
Administered by LESJWA/SAWPA



Lake Elsinore & Canyon Lake TMDL Monitoring Locations



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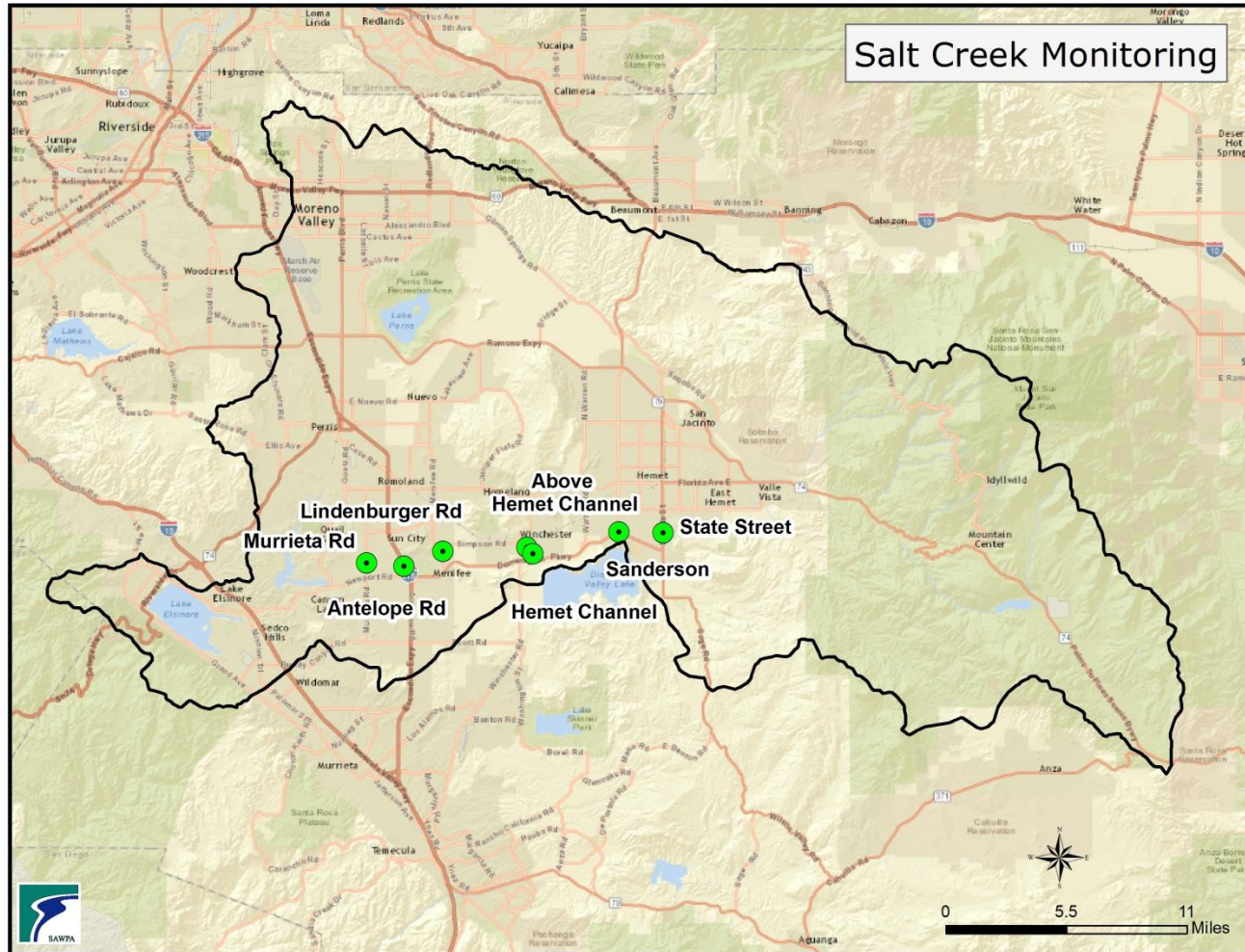


Salt Creek Nutrient Source Assessment (Not administered by SAWPA or LESJWA)

- Purpose:
 - Obtain additional water quality data to address uncertainty in modeling conducted by Western Riverside County Agriculture Coalition (WRCAC) to support the Agricultural Nutrient Management Plan (AgNMP).
- Conducted during 2014-15 wet season
- Collected water quality data at seven monitoring sites along Salt Creek
- Funded by WRCAC



Salt Creek Nutrient Source Assessment: Monitoring Locations



Questions?



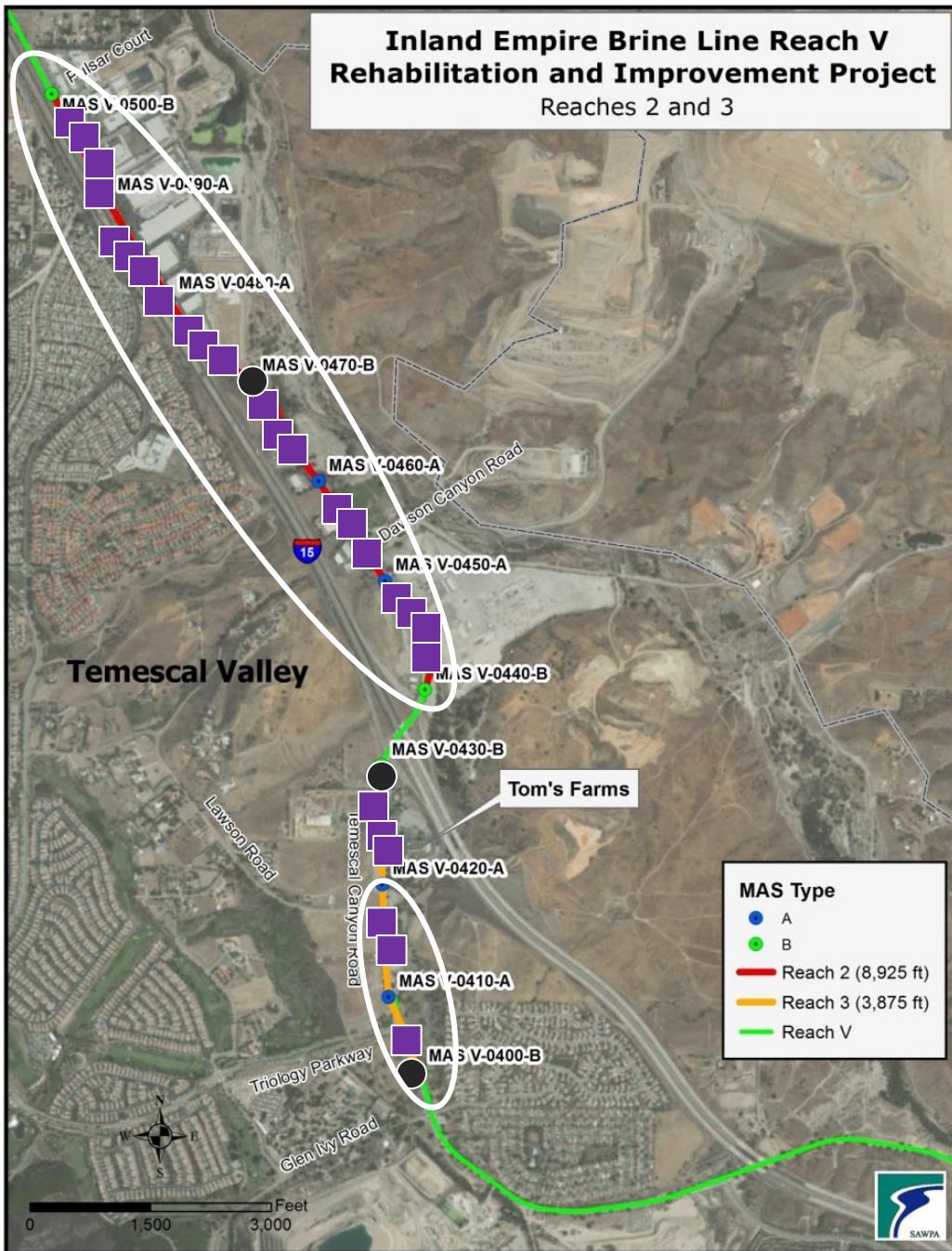
Inland Empire Brine Line
Reach V Rehabilitation and
Improvement Project – Phase 1

Item 6.G

June 20, 2017

Inland Empire Brine Line Reach V Rehabilitation and Improvement Project

Reaches 2 and 3



Work Completed

- By-pass System
 - 13,200 ft (100%)
- Maintenance Access Structures ●
 - 3 (33%)
- Access Pits ■
 - 31 (84%)
- Line Cleaning ○
 - 11,320 ft. (88%)
- CCTV ○
 - 11,320 ft. (88%)
- Laser Profiling ○
 - 11,320 ft. (88%)
- CIPP Lining
 - 950 Ft. (7%)

Batesville Manufacturing Facility

May 18, 2017



Insituform[®]

an AEGION[®] company



Raw Material Inventory (Fiber, Pellets, Roll Goods)



Polyester Staple (fiber)

LINER FACT:

We process over 12 million pounds of staple fiber per year.



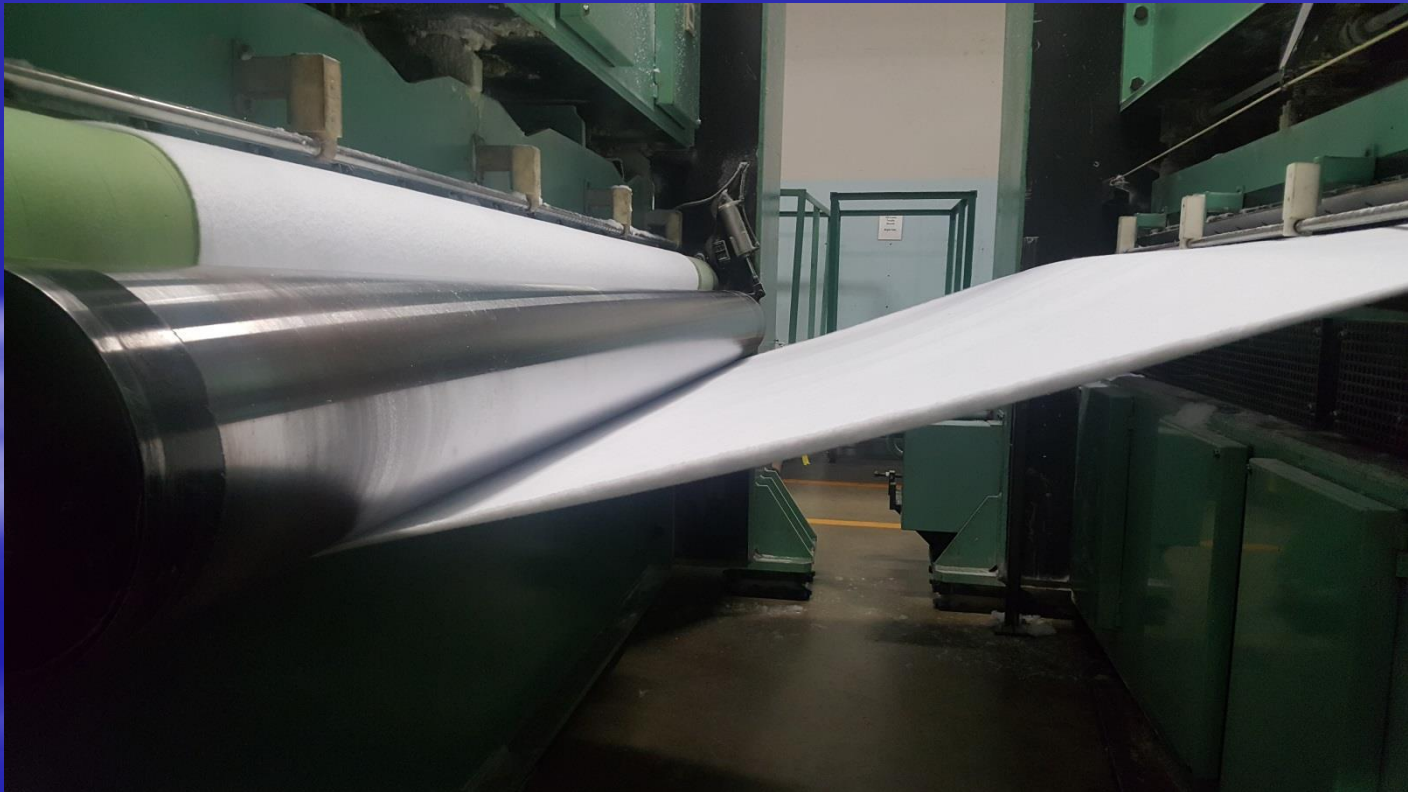
Needlepunch (Felting)



Installed when the facility first opened, the Asselin Felting Line has been in continuous operation since 1988.



Exceeding capacity on our first line, the Dilo Felting Line was added in 2003 to help meet our growing product demands..



Felt Production – Over 78 Million Square Feet per Year

LINER FACT:

This is enough felt to blanket Central Park in New York...twice!

Plain Felt (70%)

- 2.5mm
- 3.0mm
- 4.5mm
- 6.0mm

Coated Felt (30%)

- 1.5mm ILS
- 2.0mm
- 3.0mm

Cast Film Extrusion (Coating)



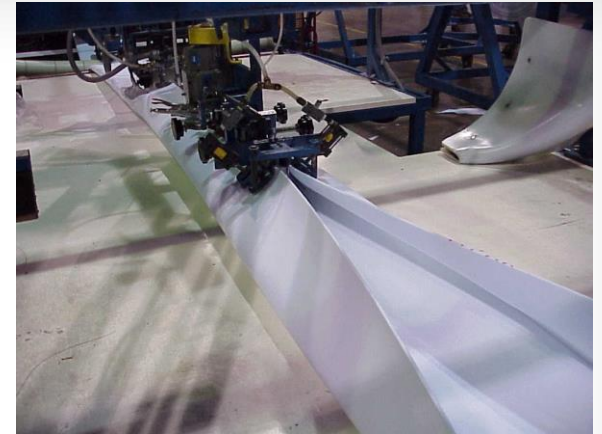
CIPP Liner Manufacturing Processes



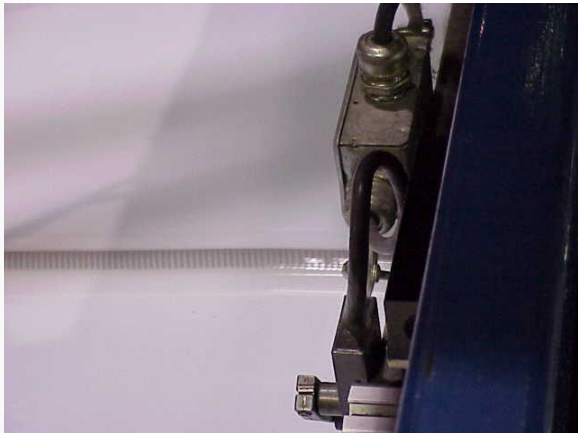
SLITTING



JOINING



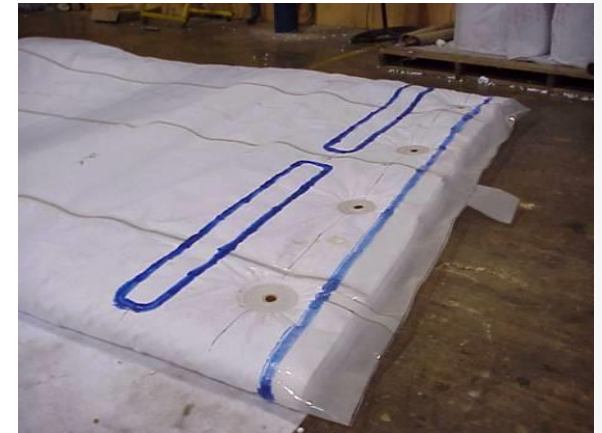
SEWING



SEAM EXTRUSION

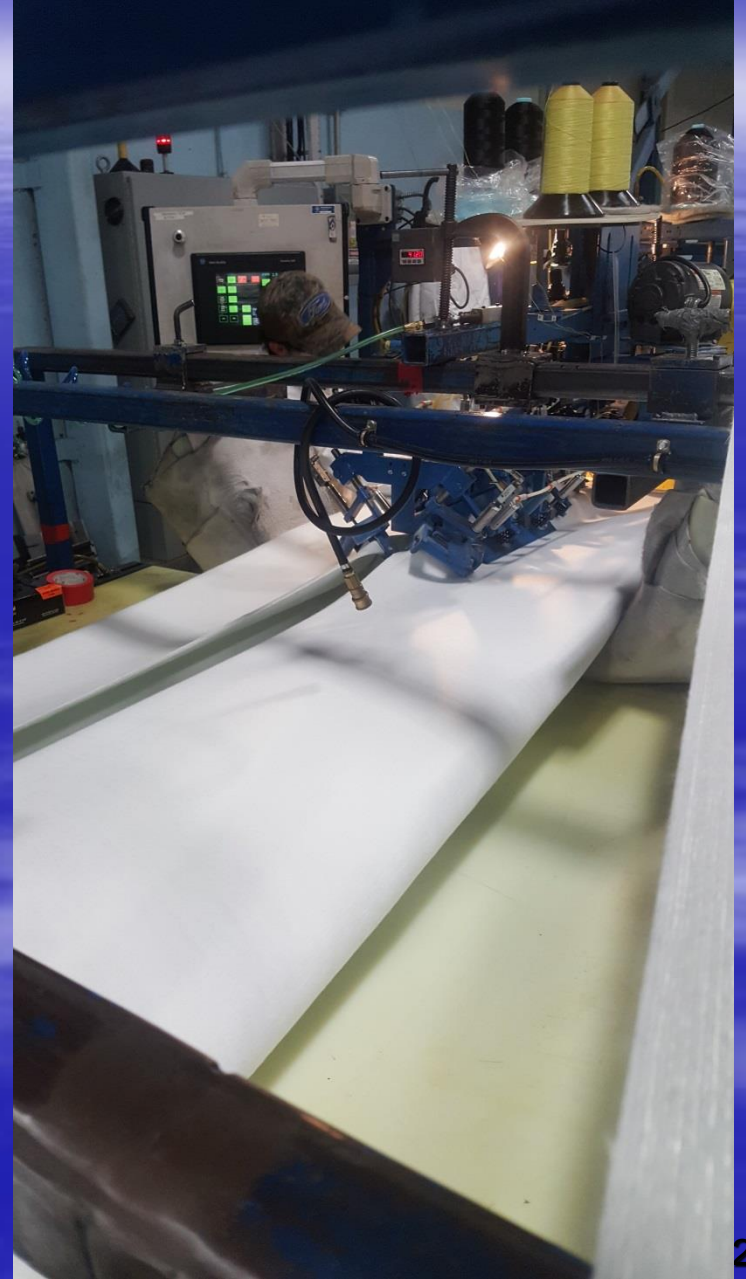


INSPECTION



SPECIAL APPARATUS





Material Testing – 100% QC Verification



Thickness



Strength

Insitube – Gravity Sewer/Storm Water Applications



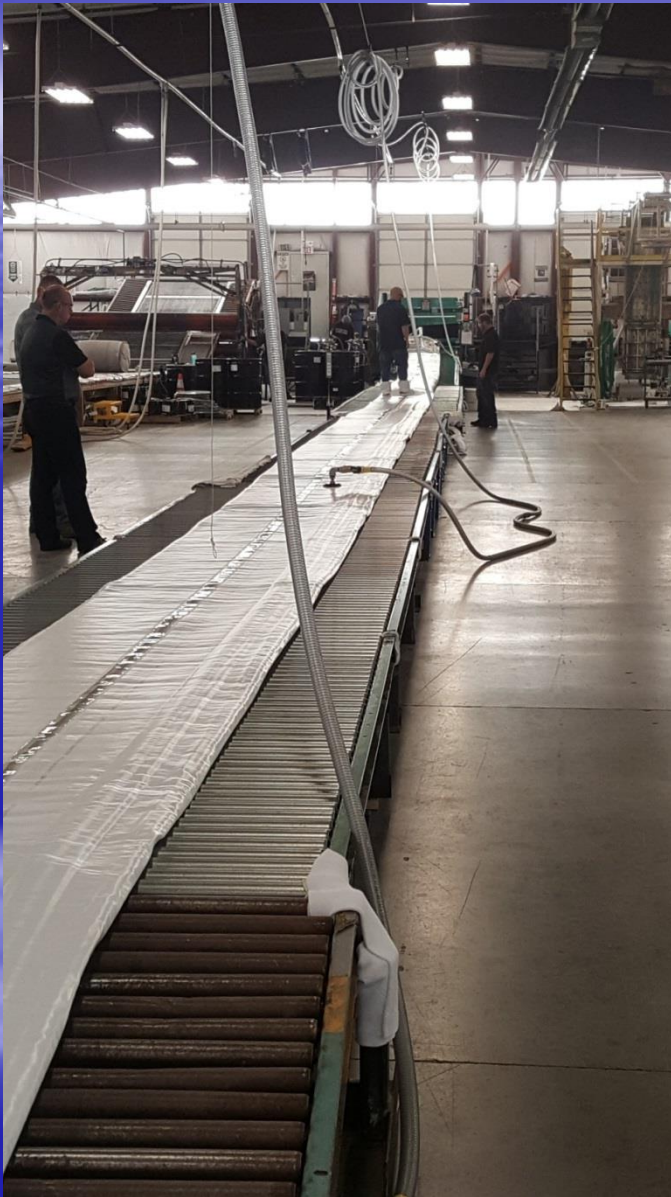
As small as 4" diameter



As large as 120" diameter



Wet-out Facility Cedar City, UT



Installation Reach V









6/6/17 9:31:41 AM PDT





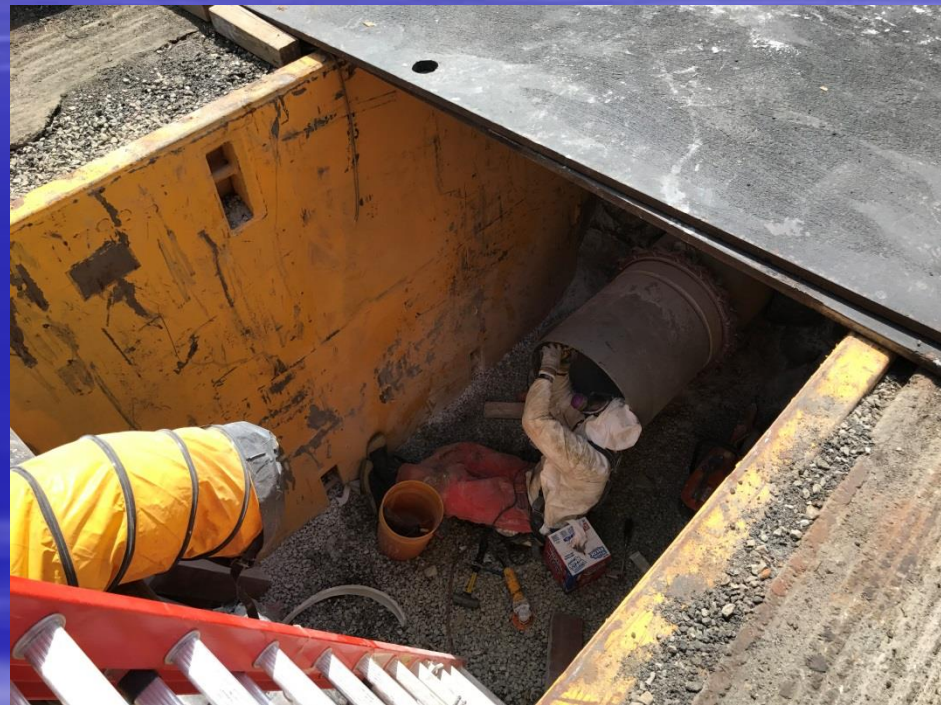
6/6/17 11:53:37 AM PDT



6/6/17 11:54:48 AM PDT

CIPP Liner Installation Timeline







6/8/17 7:18:58 AM PDT

Line Segment 2



Pre-lining CCTV



Post lining CCTV



6/14/17 10:06:59 AM PDT

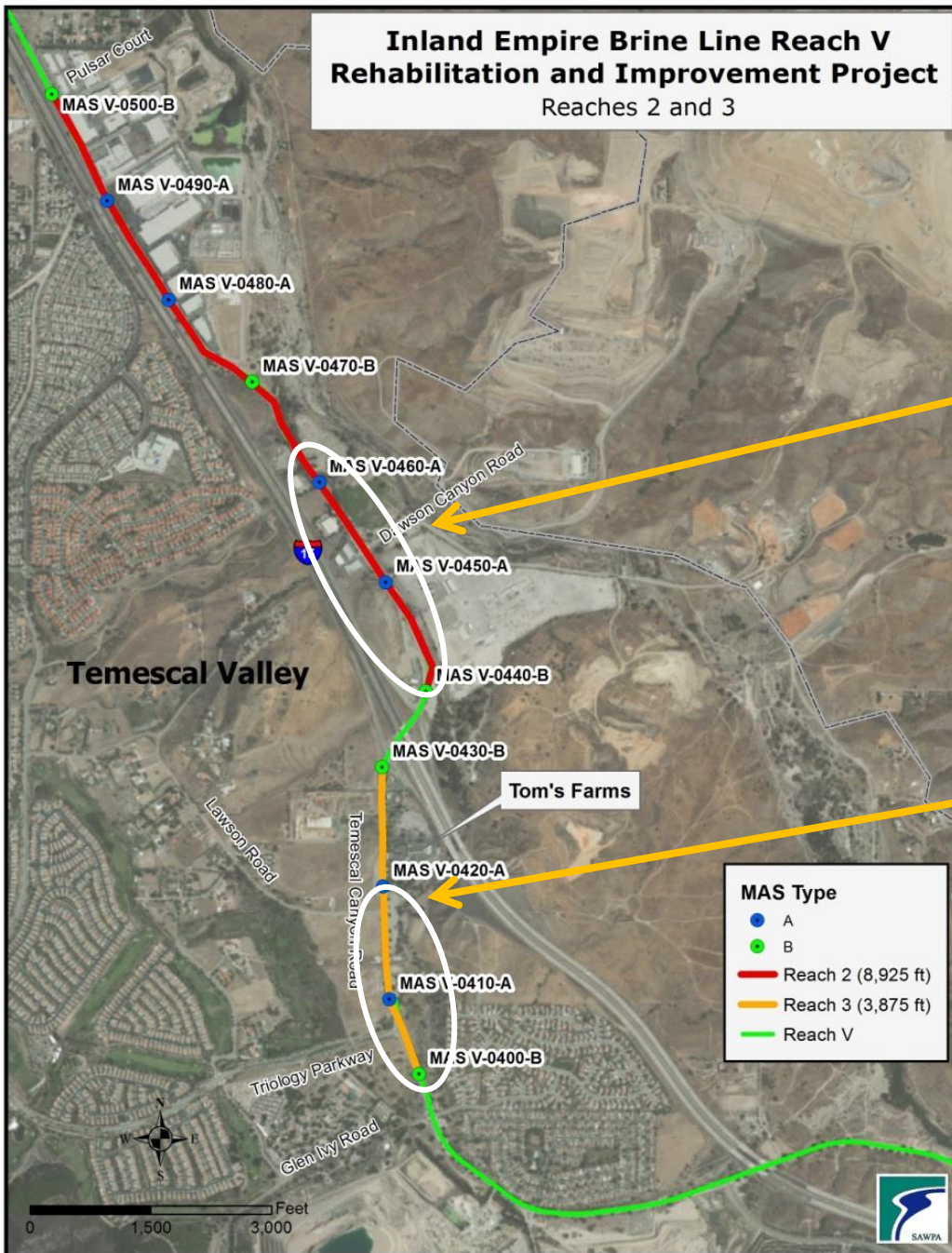


Ovality Results

<u>Segment #</u>	<u>Length</u>	<u>Ovality Range</u>	<u>Action</u>
▪ 1.	500 ft	2.5% - 9.5%	CIPP Line
▪ 2.	450 ft	2.3% - 9.4%	CIPP Line
▪ 3.	550 ft	1.3% - 11.5%	CIPP Line
▪ 4.	350 ft	1.5% - 8.0%	CIPP Line
▪ 5.	350 ft	1.4% - 3.9%	No Lining
▪ 6.	400 ft	1.3% - 9.0%	CIPP Line
▪ 7.	350 ft	1.0% - 7.5%	CIPP Line
▪ 8.	410 ft	1.5% - 10.4%	CIPP Line
▪ 9.	410 ft	1.6% - 10.0%	CIPP Line
▪ 9.1	70 ft	6.0% - 16.5%	Remove and Replace
▪ 10.	220 ft	1.6% - 7.7%	CIPP Line
▪ 11.	270 ft	0.7% - 9.0%	CIPP Line
▪ 12.	440 ft	0.7% - 9.0%	CIPP Line
▪ 13.	240 ft	1.5% - 12.0%	CIPP Line
▪ 14.	460 ft	4.0% - 18.0%	CIPP Line (Increased wall thickness at 18% Ovality, 9ft)

Inland Empire Brine Line Reach V Rehabilitation and Improvement Project

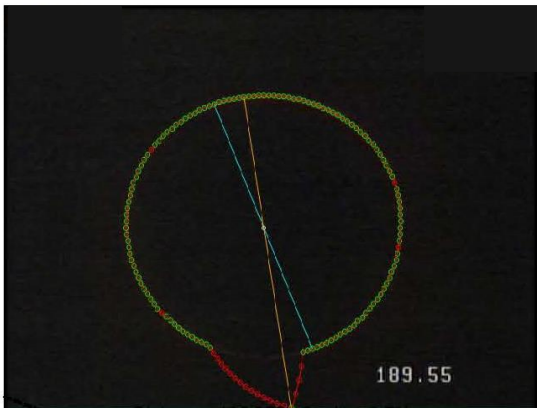
Reaches 2 and 3



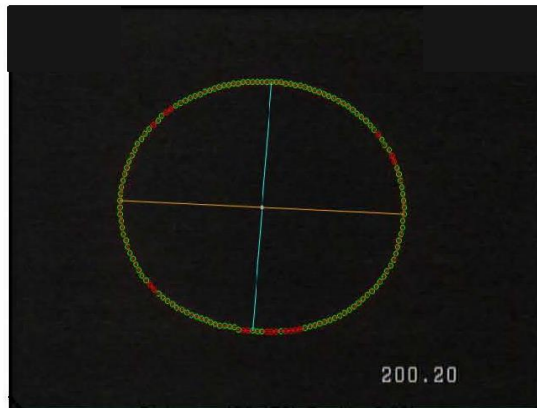
Ovality Results

- 15. Range 3.6% - 13.5% / CIPP Line
- 16. Range 3.3% - 16.1%
 - Remove and Replace 395 Feet
- 17. Range 2.9% - 11.2% / CIPP Line
- 18. Range 3.2% - 12.4% / CIPP Line
- 19. Range 1.4% - 12.0% / CIPP Line
- 20. Range 1.0% - 8.0% / CIPP Line
- 21. Range 2.2% - 8.0% / CIPP Line
- 22. Range 0.6% - 7.0% / CIPP Line
- 23. Range 1.2% - 7.8% / CIPP Line

- 27. Range 0.4% - 10.2% / CIPP Line
- 29. Range 0.5% - 8.5% / CIPP Line
- 30. Range 1.2% - 8.2% / CIPP Line
- 31. Range 2.7% - 10.4% / CIPP Line
- 32. Range 0.9% - 7.9% / CIPP Line



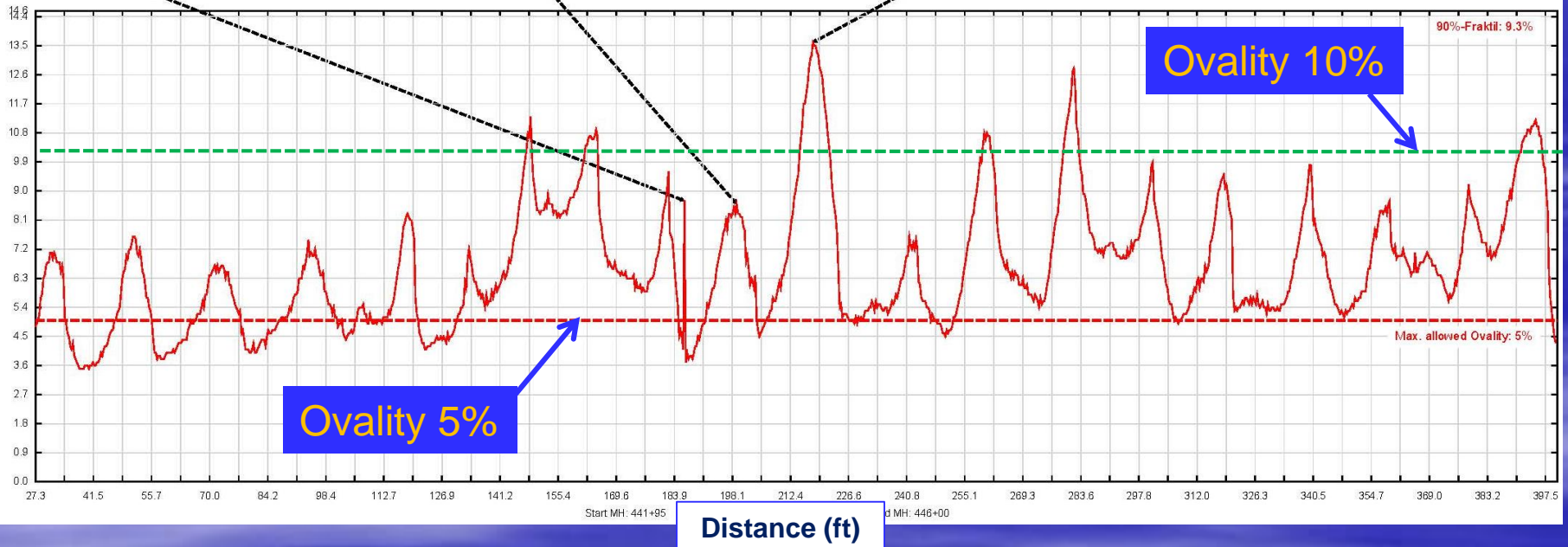
Distance: 186.375, Ovality: 8.7%



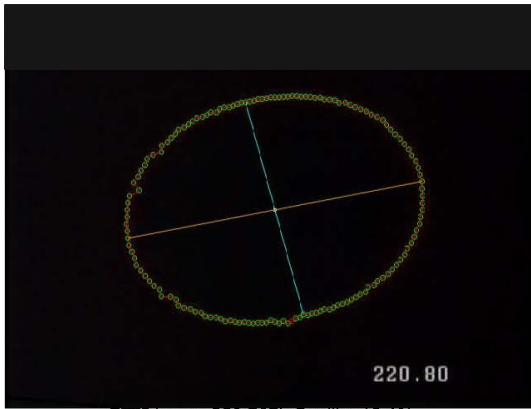
Distance: 199.170, Ovality: 8.6%



Distance: 217.871, Ovality: 13.6%



- 15. Sta. 441+95 – 446+00
 - Range 3.6% - 13.5% /CIPP Line
 - 6 locations above 10%
 - 1 location 6 ft in length up to 13.5% Ovality



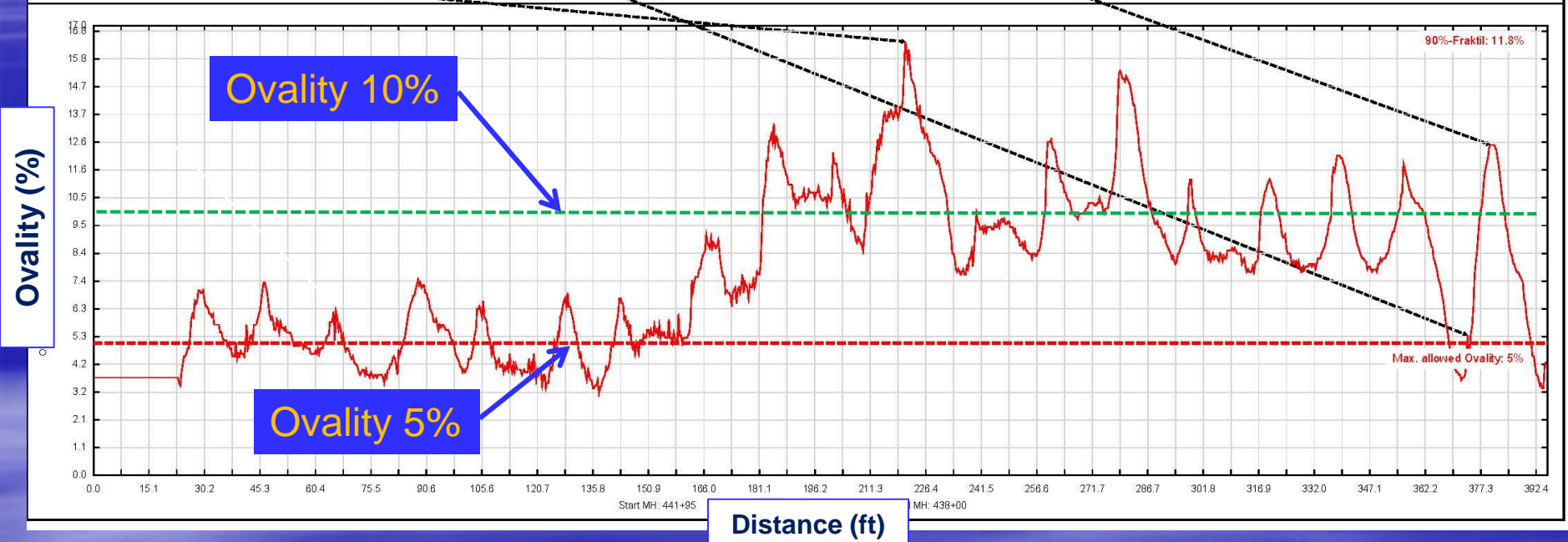
Distance: 220.797', Ovality: 16.4%



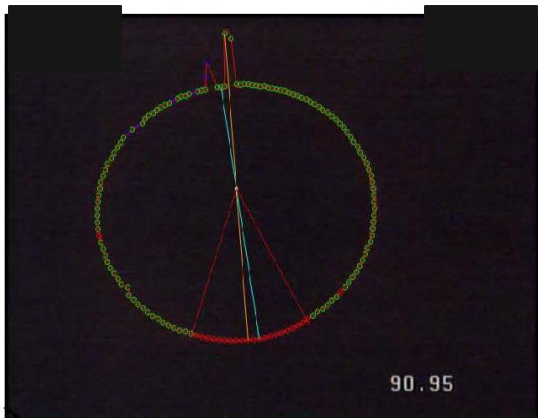
Distance: 373.681', Ovality: 5.3%



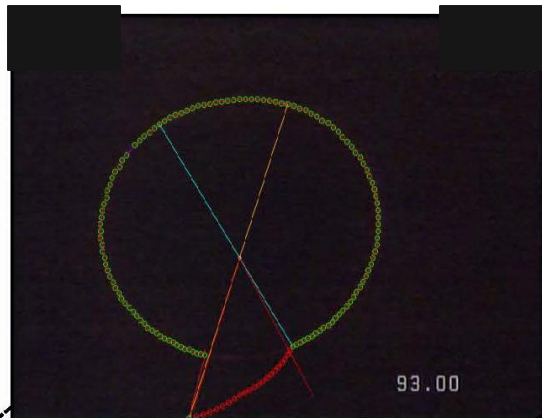
Distance: 379.915', Ovality: 12.5%



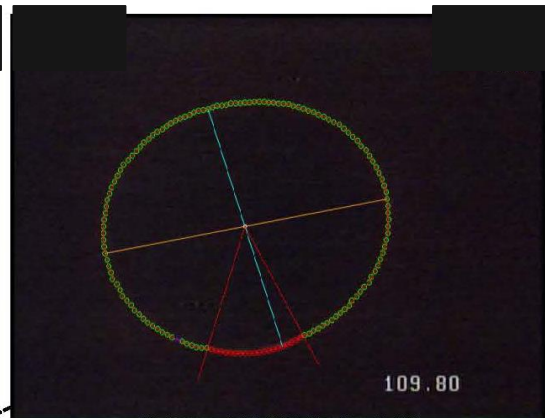
- 16. Sta. 441+95 – 438+00
 - Range 3.3% - 16.1% / CIPP Line
 - Remove and Replace 395 ft of Pipe



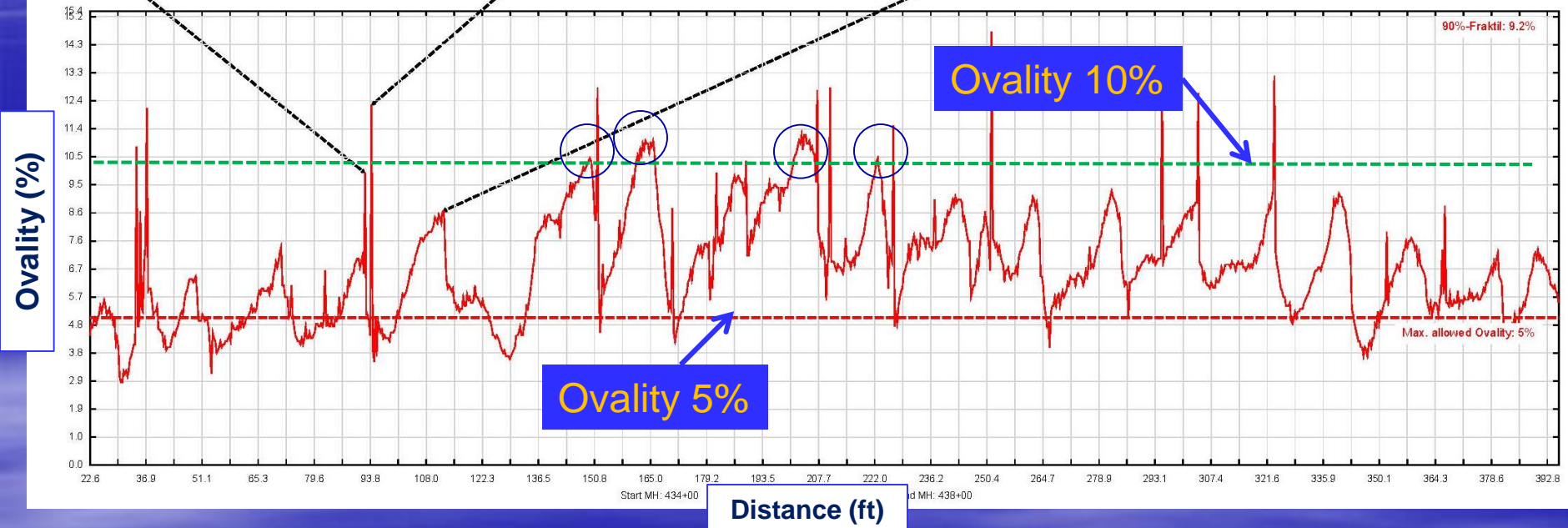
Distance: 92.493', Ovality: 9.9%



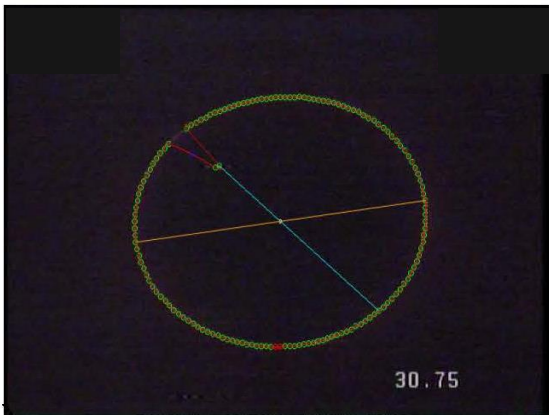
Distance: 94.134', Ovality: 12.2%



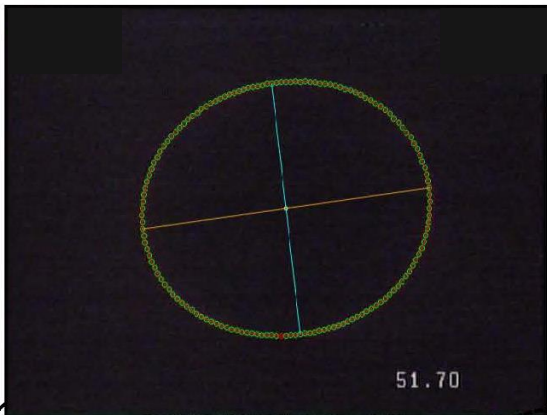
Distance: 112.179', Ovality: 8.6%



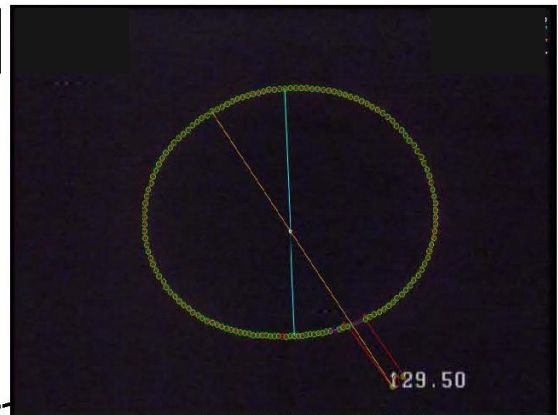
- 17. Sta. 434+00 – 438+00
 - Range 2.9% - 11.2% / CIPP Line
 - 4 Locations 1 – 6 ft in Length up to 11.2% Ovality



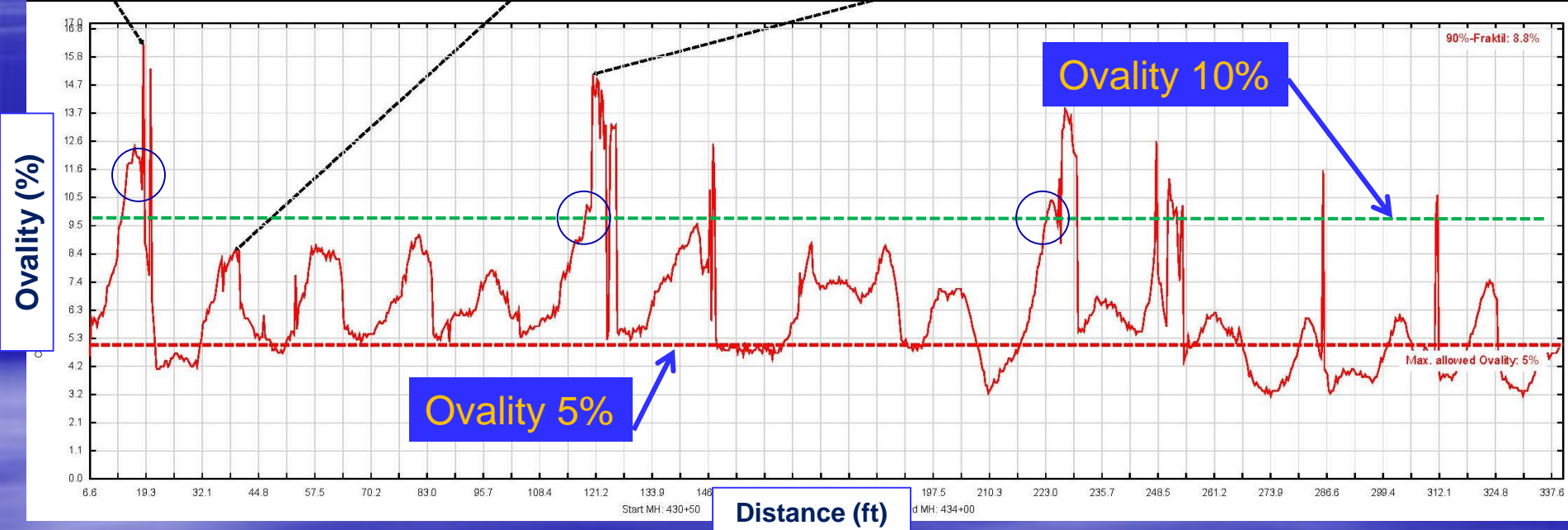
Distance: 18.734', Ovality: 16.2%



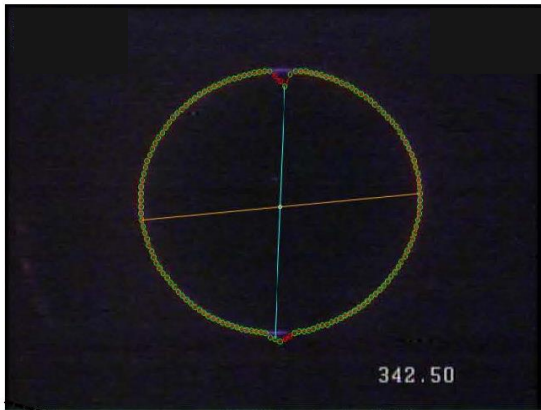
Distance: 39.403', Ovality: 8.5%



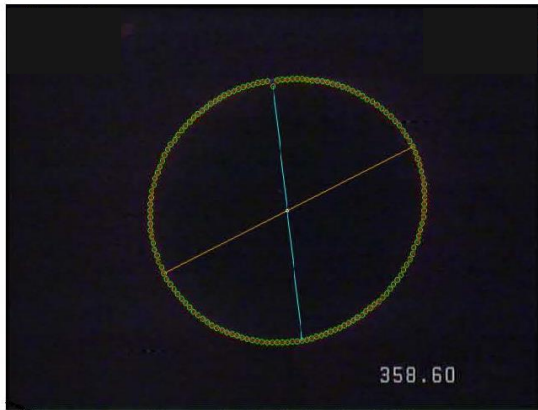
Distance: 120.440', Ovality: 15.1%



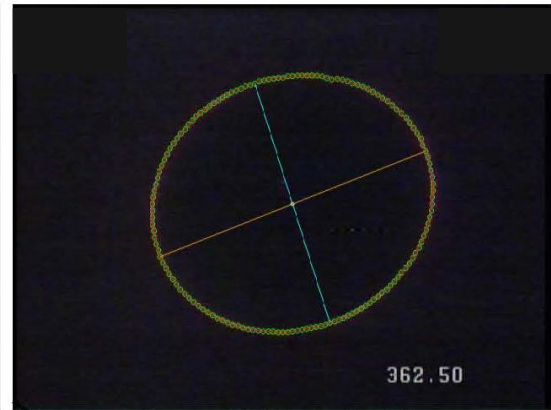
- 18. Sta. 430+50 - 434+00
 - Range 3.2% - 12.4% / CIPP Line
 - 3 Locations 1 – 5 ft in length up to 12.4% Ovality



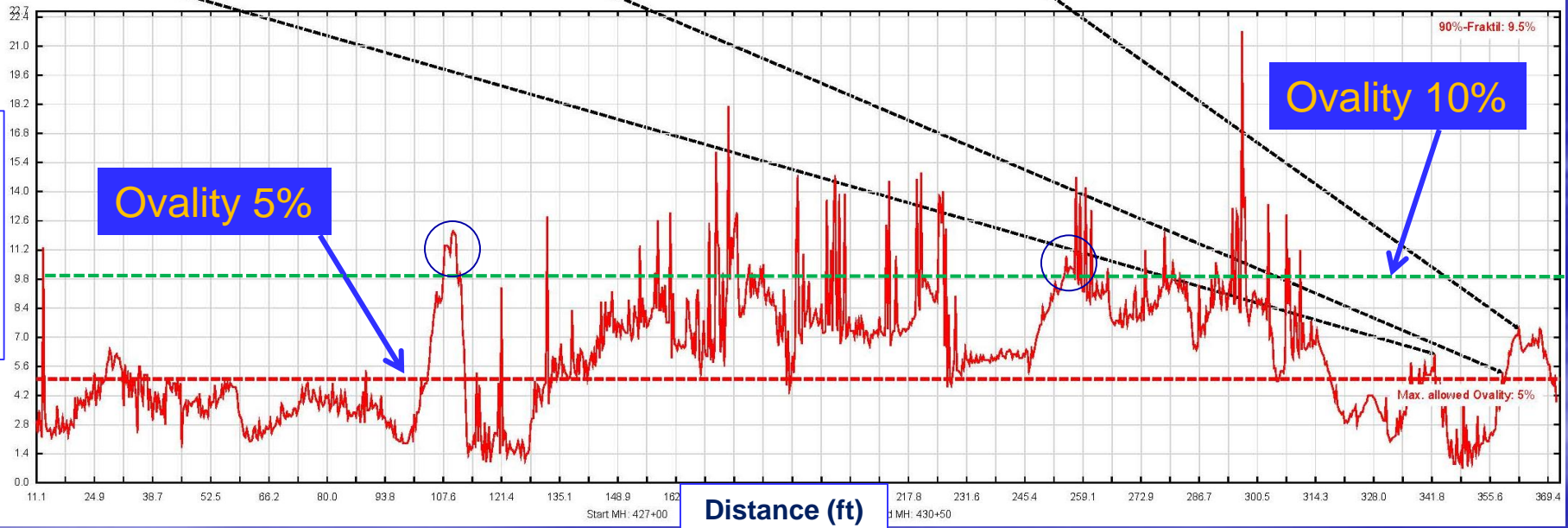
Distance: 342.477', Ovality: 6.2%



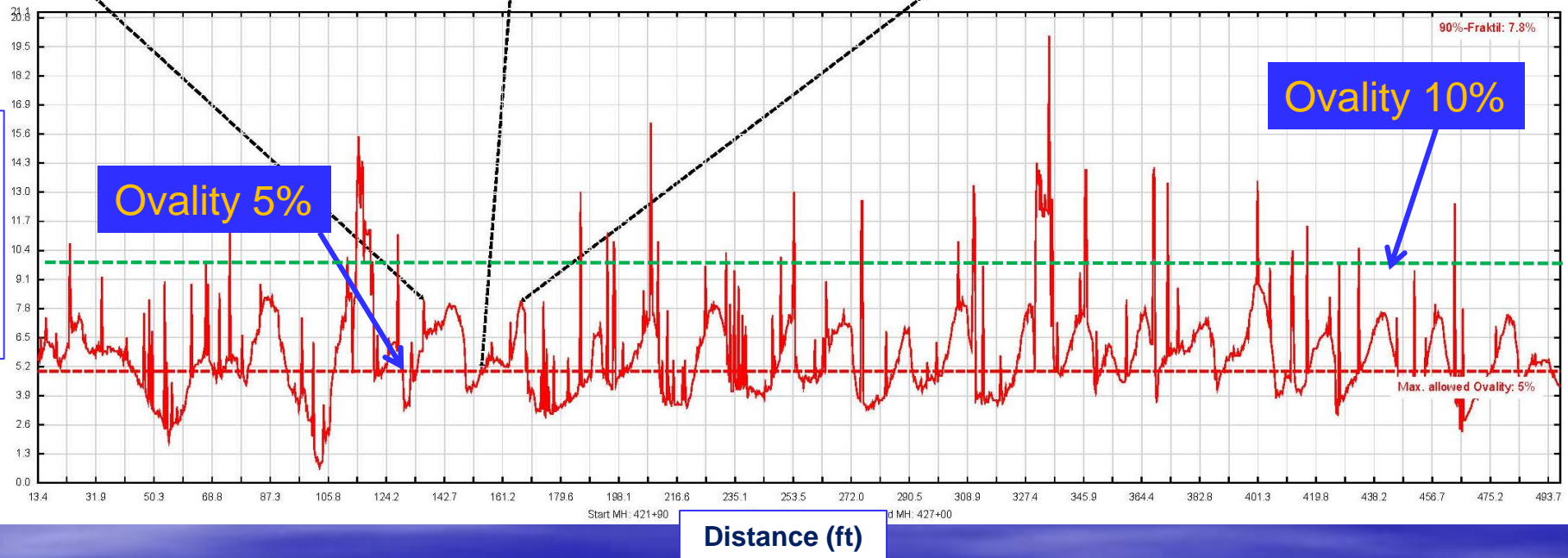
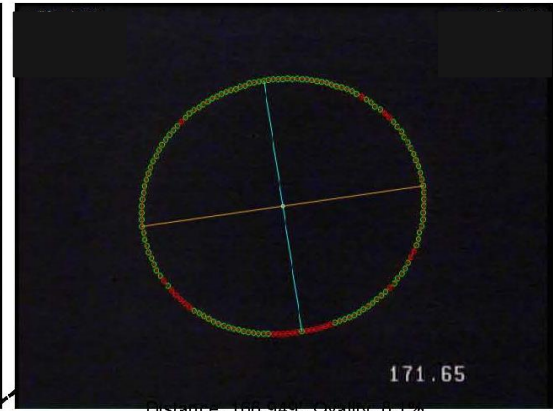
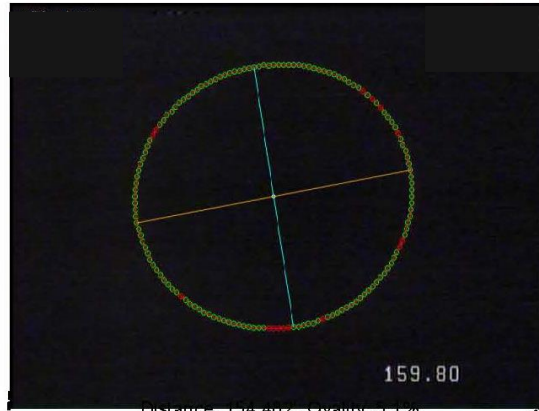
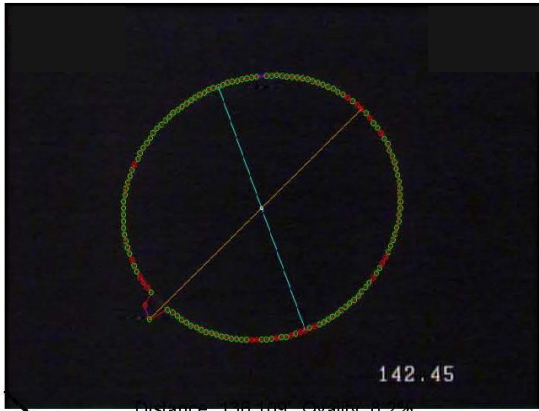
Distance: 358.553', Ovality: 5.3%



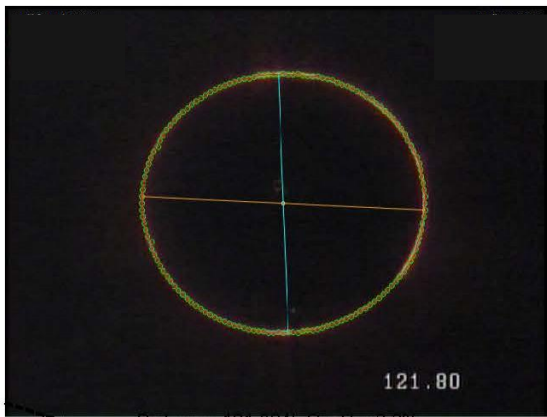
Distance: 362.490', Ovality: 7.4%



- 19. Sta. 427+00 – 430+50
 - Range 1.4% - 12.0% / CIPP Line
 - Two Locations 3 – 4 ft in length up to 12% Ovality



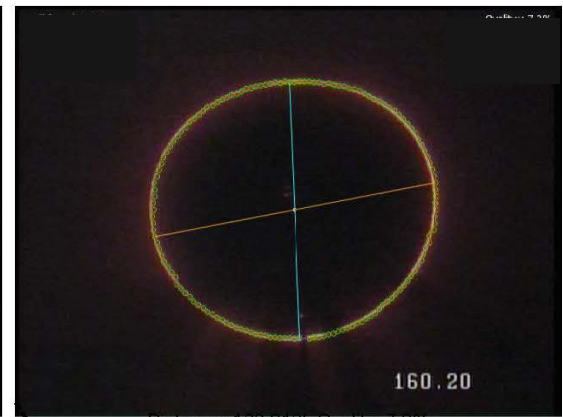
- 20. Sta. 421+90 – 427+00
 - Range 1.0% - 8.0% / CIPP Line



Distance: 121.824, Ovality: 6.6%



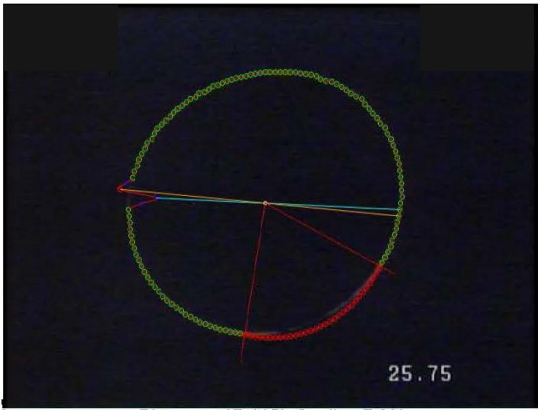
Distance: 141.181, Ovality: 6.5%



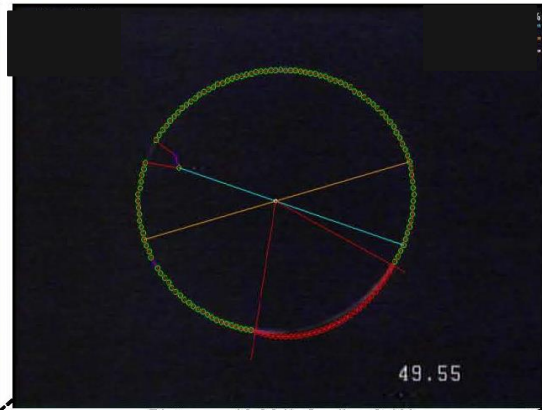
Distance: 160.210, Ovality: 7.2%



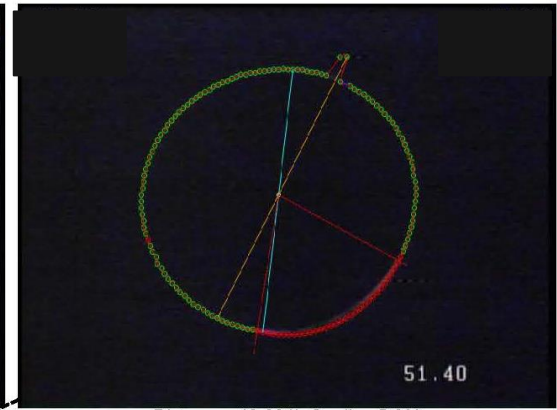
- 21. Sta. 419+20 – 421+90
 - Range 2.2% - 8.0% / CIPP Line



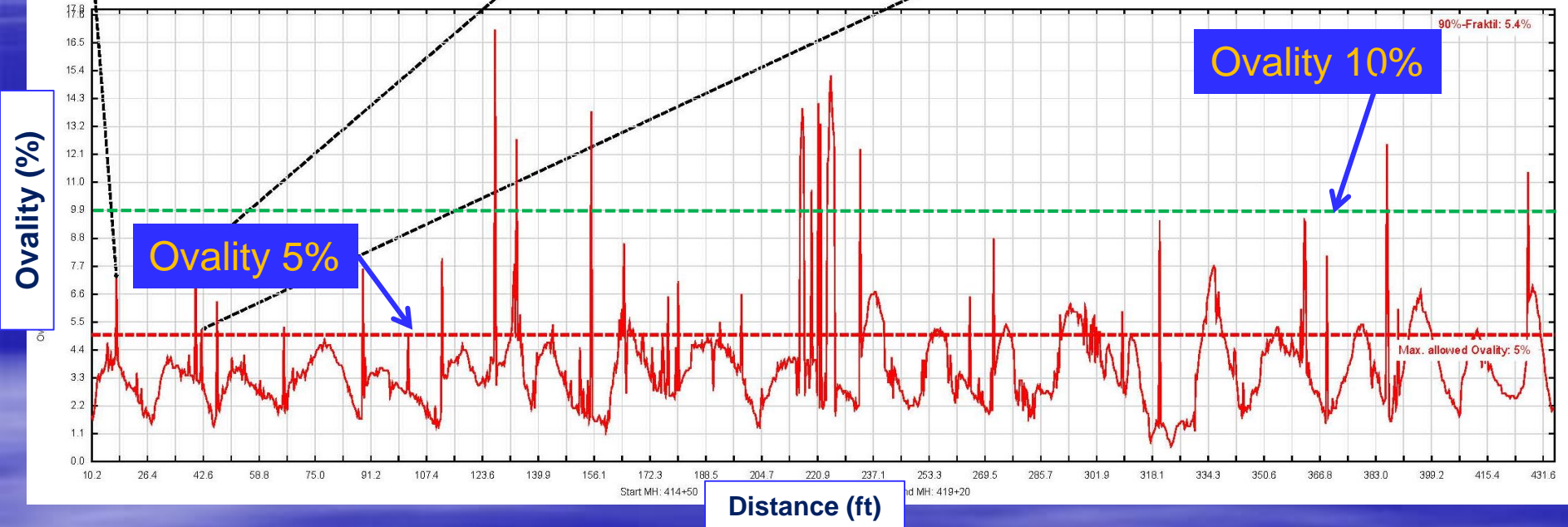
Distance: 17.415', Ovality: 7.2%



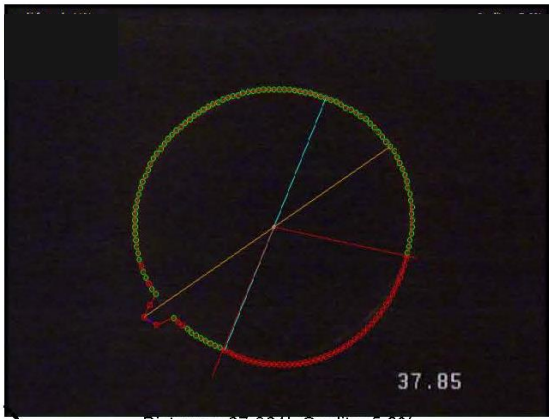
Distance: 40.381', Ovality: 8.1%



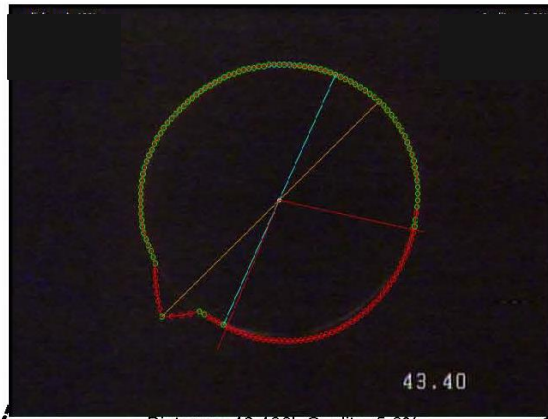
Distance: 42.021', Ovality: 5.2%



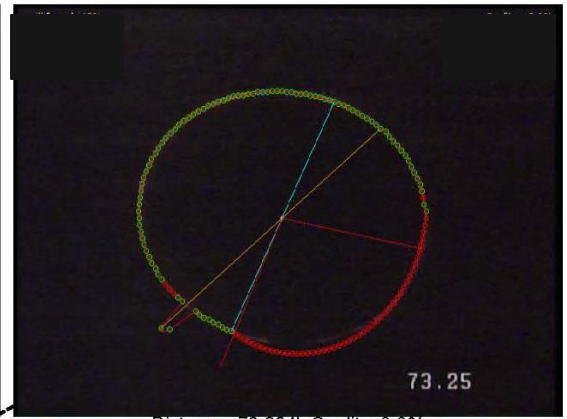
- 22. Sta. 414+50 – 419+20
 - Range 0.6% - 7.0% / CIPP Line



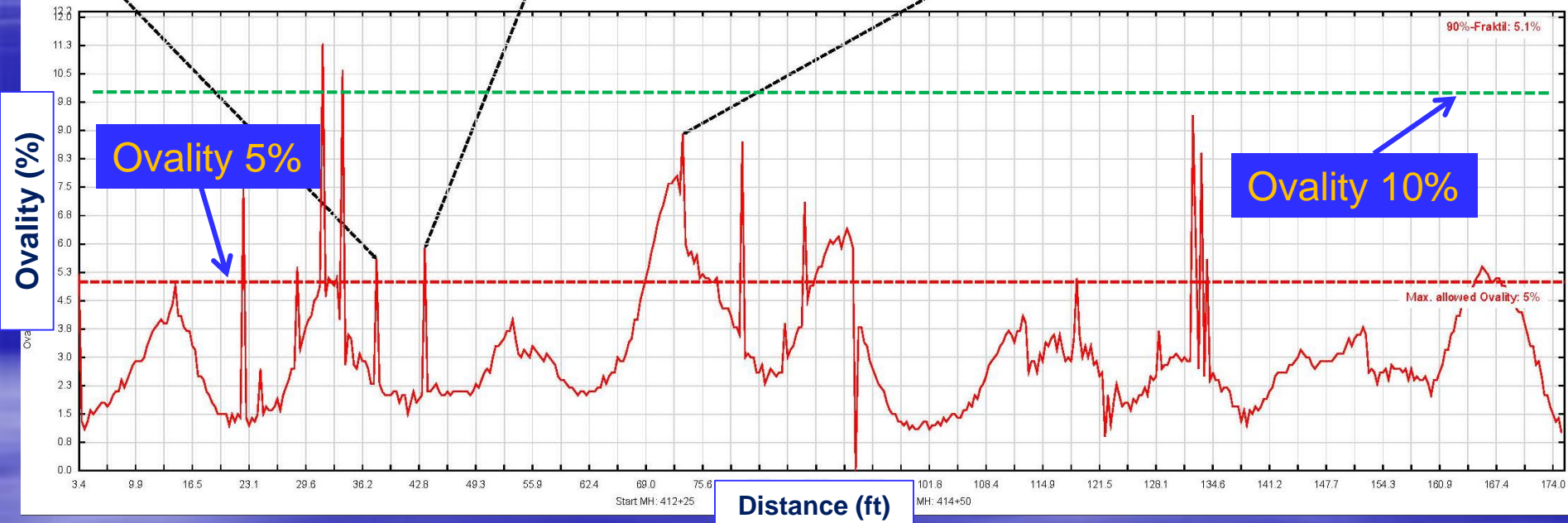
Distance: 37.831', Ovality: 5.6%



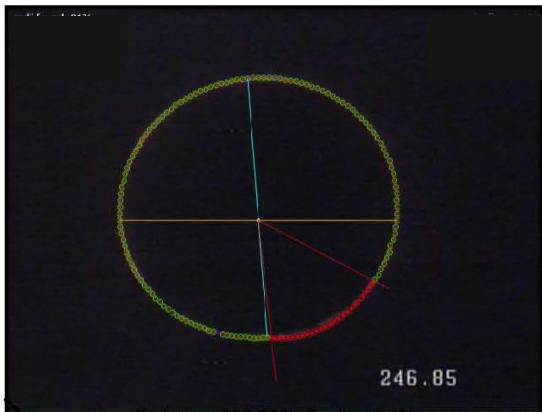
Distance: 43.409', Ovality: 5.9%



Distance: 73.264', Ovality: 8.9%



- 23. Sta. 412+25 – 414+50
 - Range 1.2% - 7.8% / CIPP Line



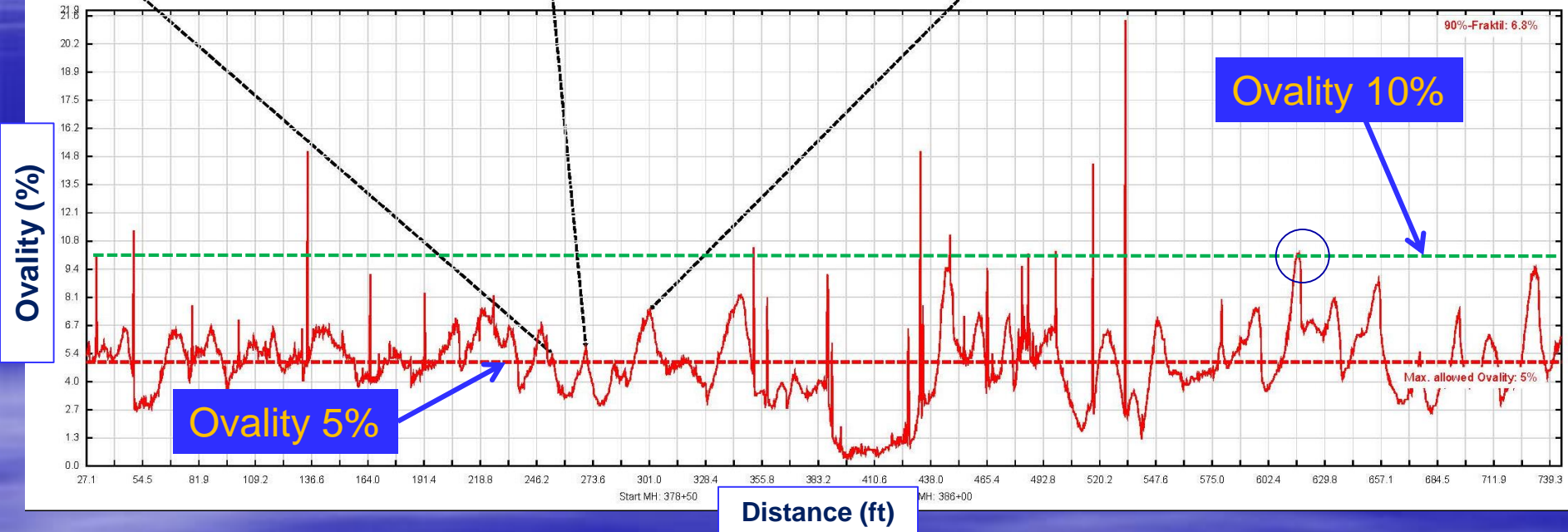
Distance: 253.766', Ovality: 5.4%



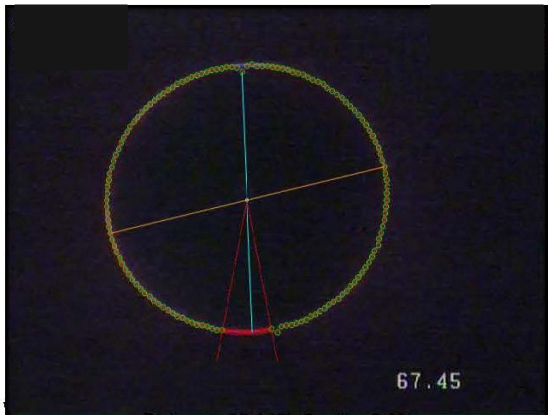
Distance: 270.171', Ovality: 5.7%



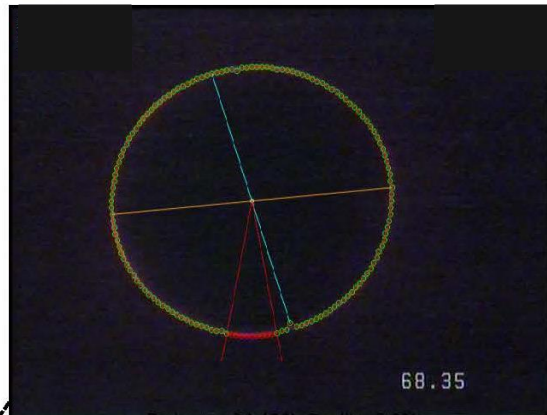
Distance: 301.339', Ovality: 7.5%



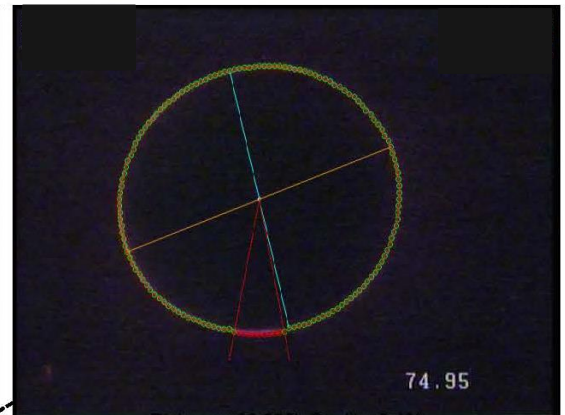
- 27. Sta. 378+80 – 386+50
 - Range 0.4% - 10.2% / CIPP Line
 - 1 locations 2 ft in length up to 10.2% Ovality



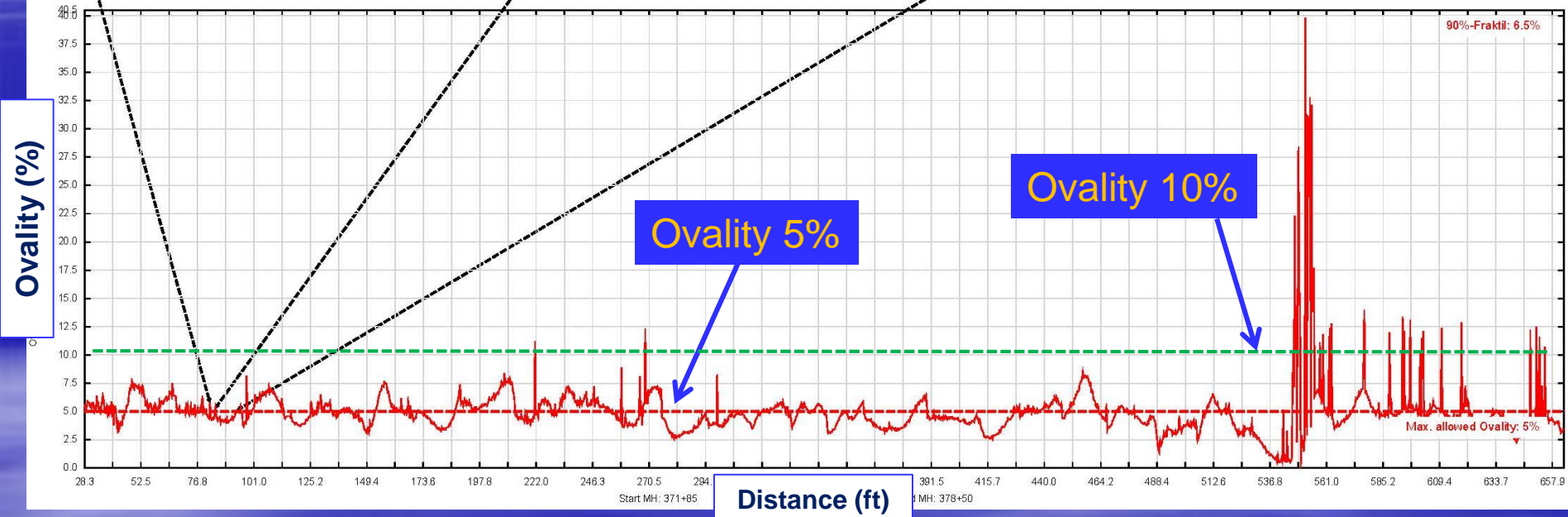
Distance: 82.142, Ovality: 5.8%



Distance: 84.439, Ovality: 5.3%



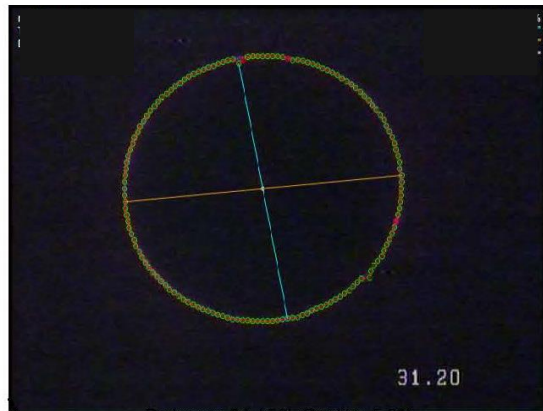
Distance: 93.625, Ovality: 5.1%



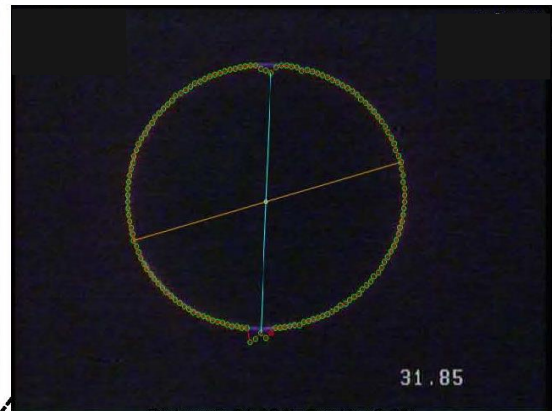
- 29. Sta. 371+85 – 378+50
 - Range 0.5% - 8.5% / CIPP Line



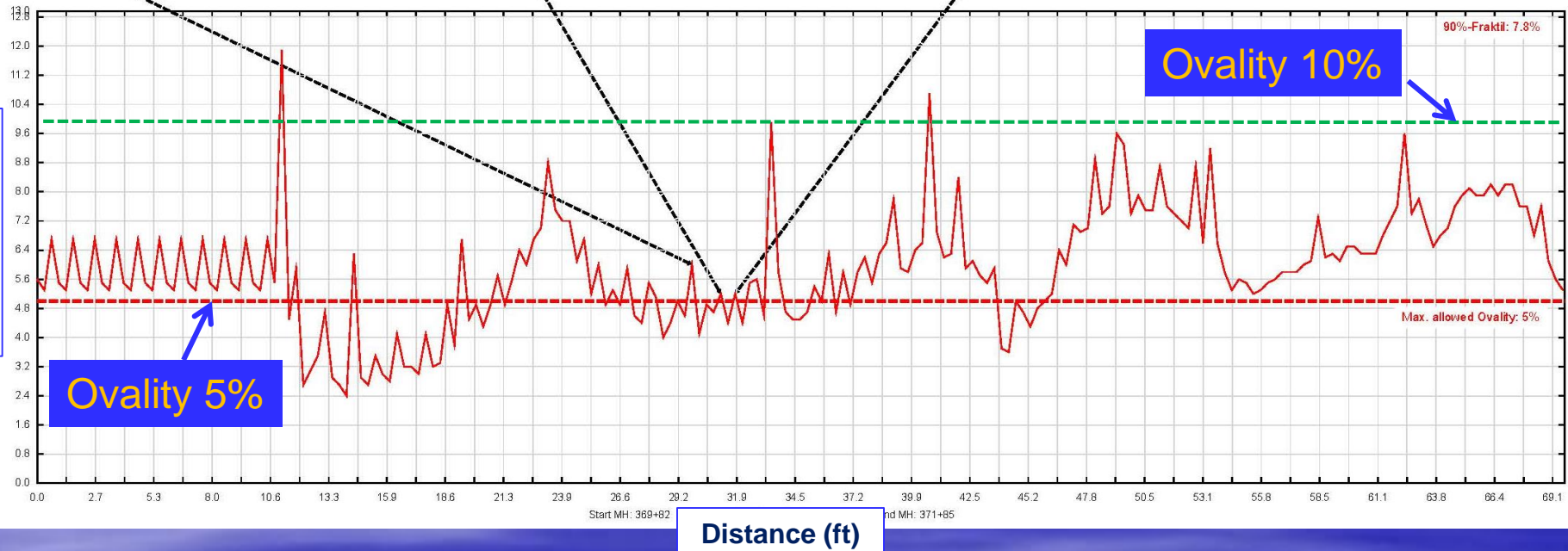
Distance: 29.852, Ovality: 6%



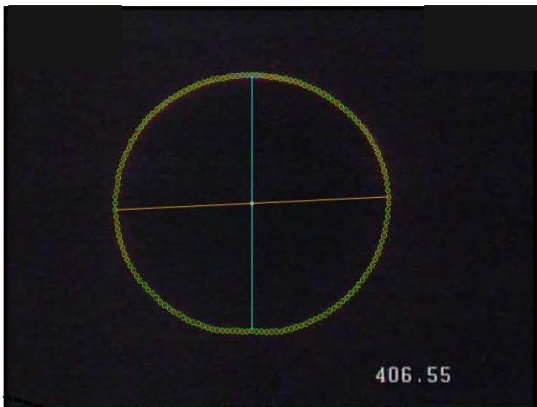
Distance: 31.168, Ovality: 5.2%



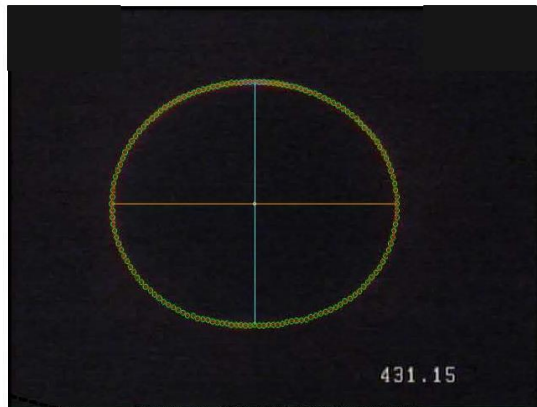
Distance: 31.824, Ovality: 5.2%



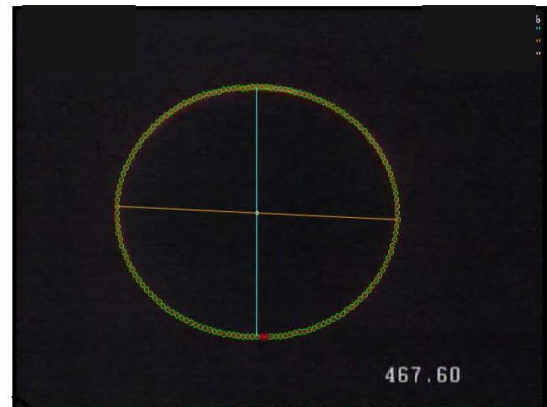
- 30. Sta. 369+82 - 371+85
 - Range 1.2% - 8.2% / CIPP Line



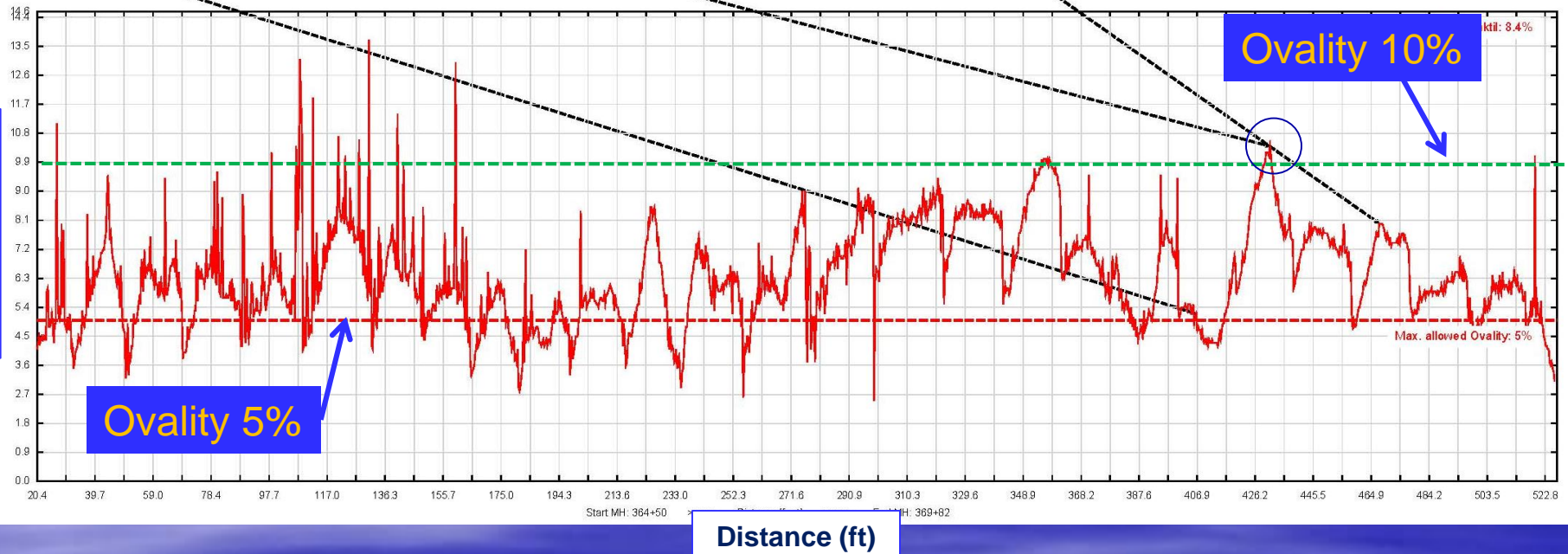
Distance: 406.552, Ovality: 5.2%



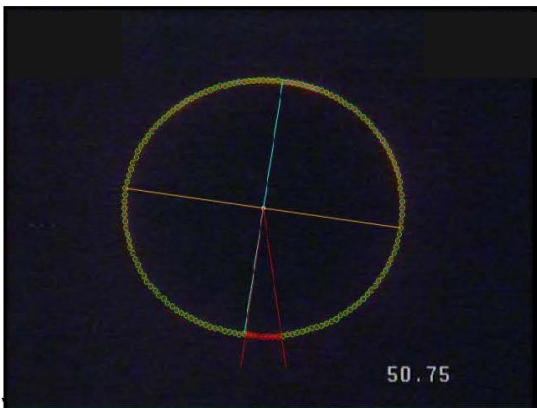
Distance: 431.155, Ovality: 10.4%



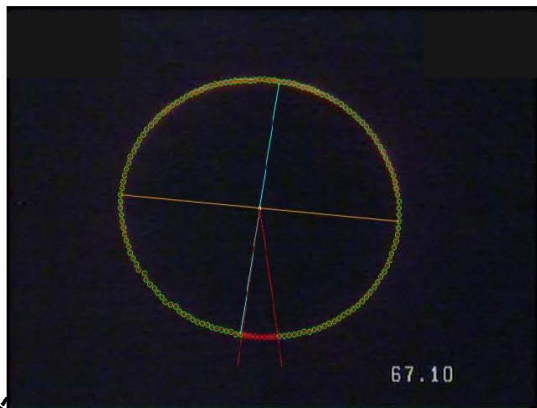
Distance: 467.576, Ovality: 8%



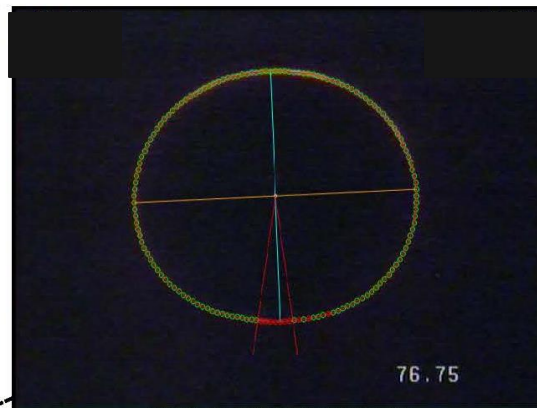
- 31. Sta. 364+50 – 369+82
 - Range 2.7% - 10.4% / CIPP Line
 - 1 location 3 ft in length up to 10.4% Ovality



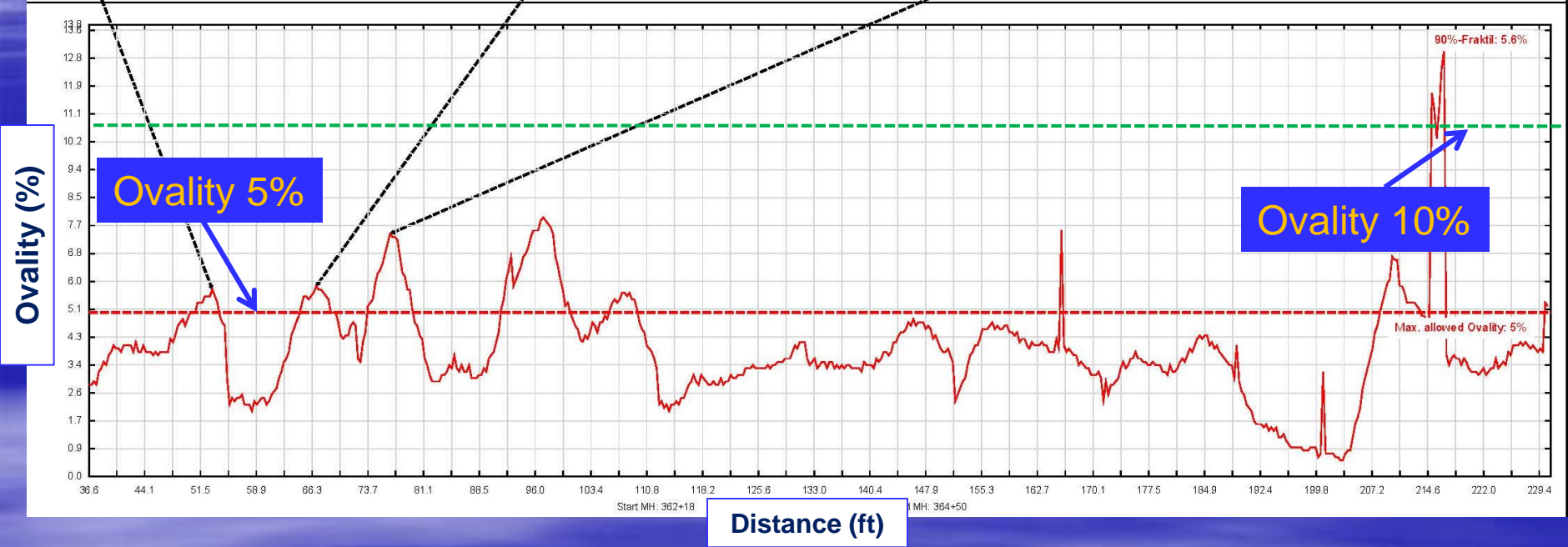
Distance: 53.048', Ovality: 5.7%



Distance: 66.827', Ovality: 5.8%

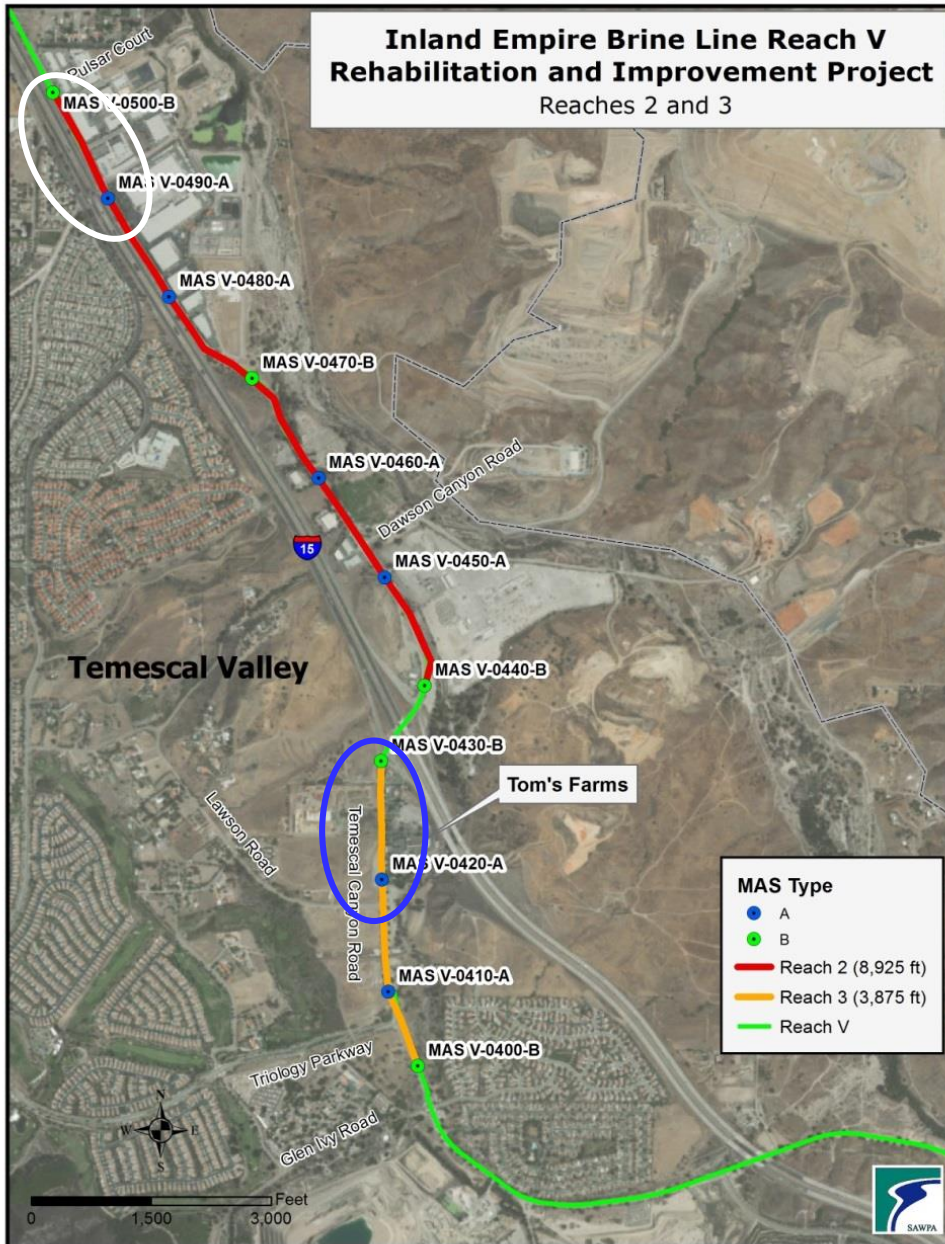


Distance: 76.670', Ovality: 7.4%



- 32. Sta. 362+18 – 364+50
 - Range 0.9% - 7.9% / CIPP Line

Inland Empire Brine Line Reach V Rehabilitation and Improvement Project Reaches 2 and 3



P:\projects\id_ruhl\RchVByPass\Reach2and3ByPass.mxd SW-2663

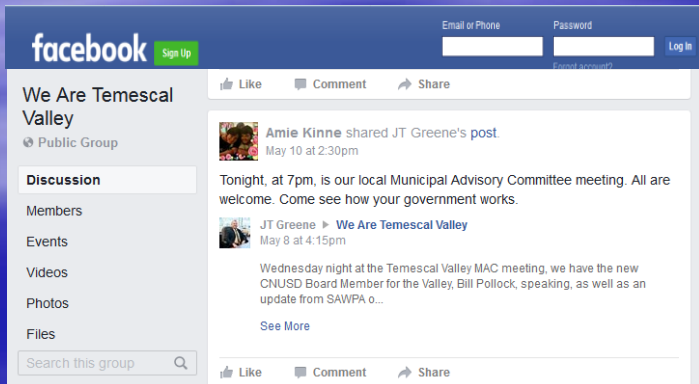
What's Next

- Manufacture CIPP Liners
- Clean/CCTV/Laser Profile Reach 3
- Receive and Review Laser Profile Data Reach 3
- Preparation for Liner Installation
- Wet-out Liner #3
- Install Liner #3 June 21
- Close Access Pits

Questions?

Public Outreach

- Attend Temescal Valley MAC Meeting
- Attend Temescal Valley Community Faire
- Project Website



Issue 17 | May 12, 2017





PIPELINE PROJECT UPDATE

▶ WHAT'S NEW AND WHY

Work is proceeding on schedule in the project area from Pukar Court to Glen Ivy Road on Temescal Canyon Road. About 70% of the pipe has been cleaned and inspected to determine the extent of necessary repairs. Starting next week, materials for the pipeline fortifications will be manufactured off-site.

▶ WHAT IT MEANS TO YOU

As crews prepare the pipeline for repair, activity will increase within the project construction yard near Dawson Canyon Road. Meanwhile, the pipe installer will use roadway access points to confirm measurements for upgrades to the underground pipe. Workers on site will continue to minimize any traffic delays.

▶ PROCESS AND TIMELINE

All aspects of the project remain fast-tracked to diminish public inconvenience while ensuring high-quality work. Please share any concerns, questions or feedback with us at: construction@sawpa.org

Project Overview

SAWPA is working to test, fortify and/or replace 5 miles of the Brine Line, an underground pipeline that conveys salty water from the Inland Empire to the Pacific Ocean. The brackish water comes from key sectors of the Inland economy, including power plants, manufacturers, and groundwater desalters that produce large volumes of drinking water.

The project calls for placing new pipes within older pipes which have lost their shape over time. With loss of shape comes increased risk of spills, and the upgrades follow a 2011 Brine Line leak that was remediated. Water from the Brine Line poses no health risk but, if left untreated, could damage the local environment.



Santa Ana Watershed Project Authority
Inland Empire Brine Line
11615 Sterling Avenue
Riverside, CA 92503

Tell us what you think.
Hotline: 951.354.4250
Email: construction@sawpa.org
For updates: www.sawpa.org/brineline



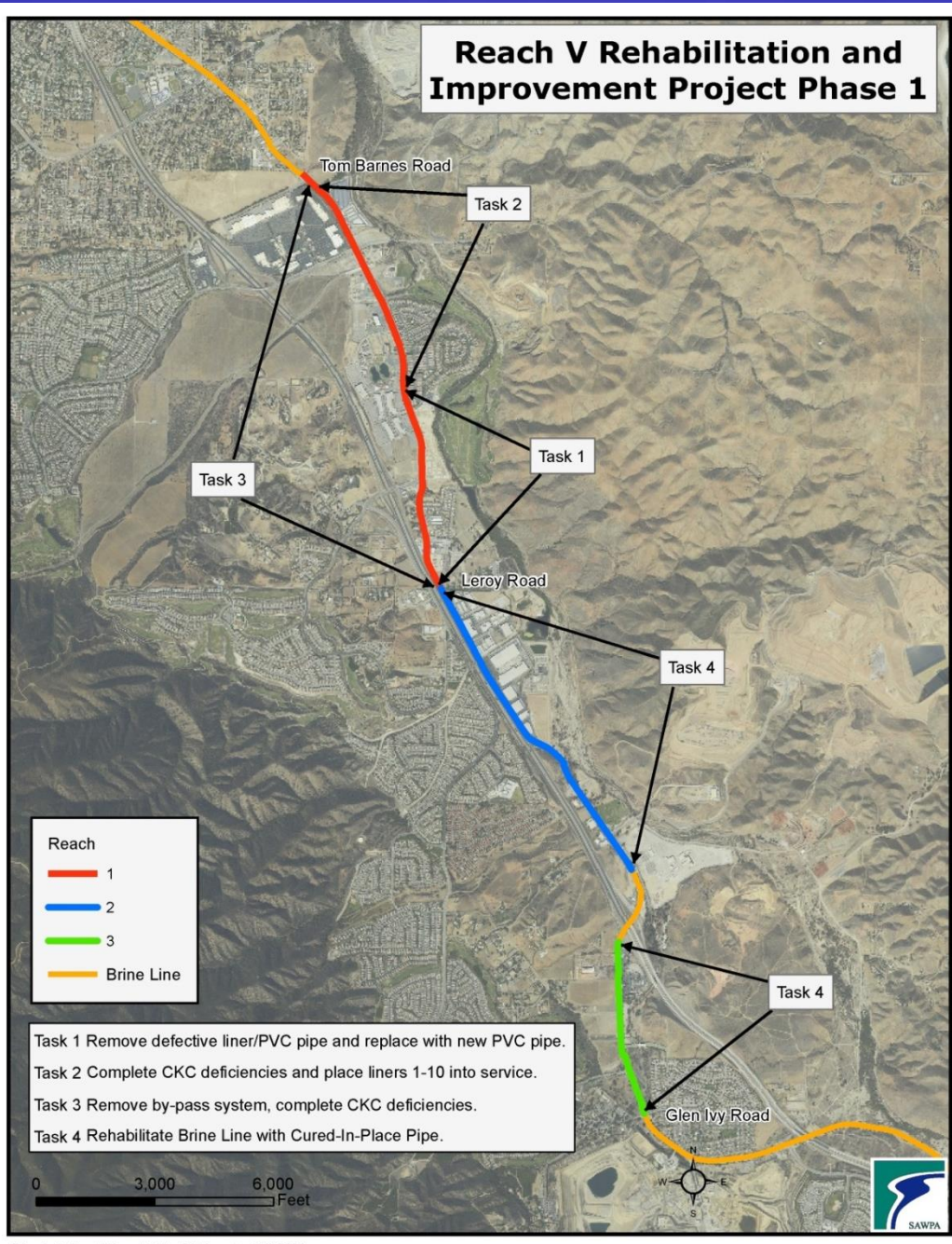
Construction Updates

951.354.4250
construction@sawpa.org





Reach V Rehabilitation and Improvement Project Phase 1



Wrought Iron Fence SAWPA Building

Item 6.H.

June 20, 2017

Wrought Iron Fence

Recommendation to SAWPA Commission

- Approve use of funds from the Building Reserve Account in an amount not-to-exceed \$30,000 for the installation of an 8-foot tall wrought iron fence on the west side of the SAWPA building.

Wrought Iron Fence



Phase 1: Temporary chain link fence
Phase 2: Permanent wrought iron fence

Santa Ana Watershed
Project Authority

Sterling Ave

Sterling Ave

Sterling Ave

Sterling Ave



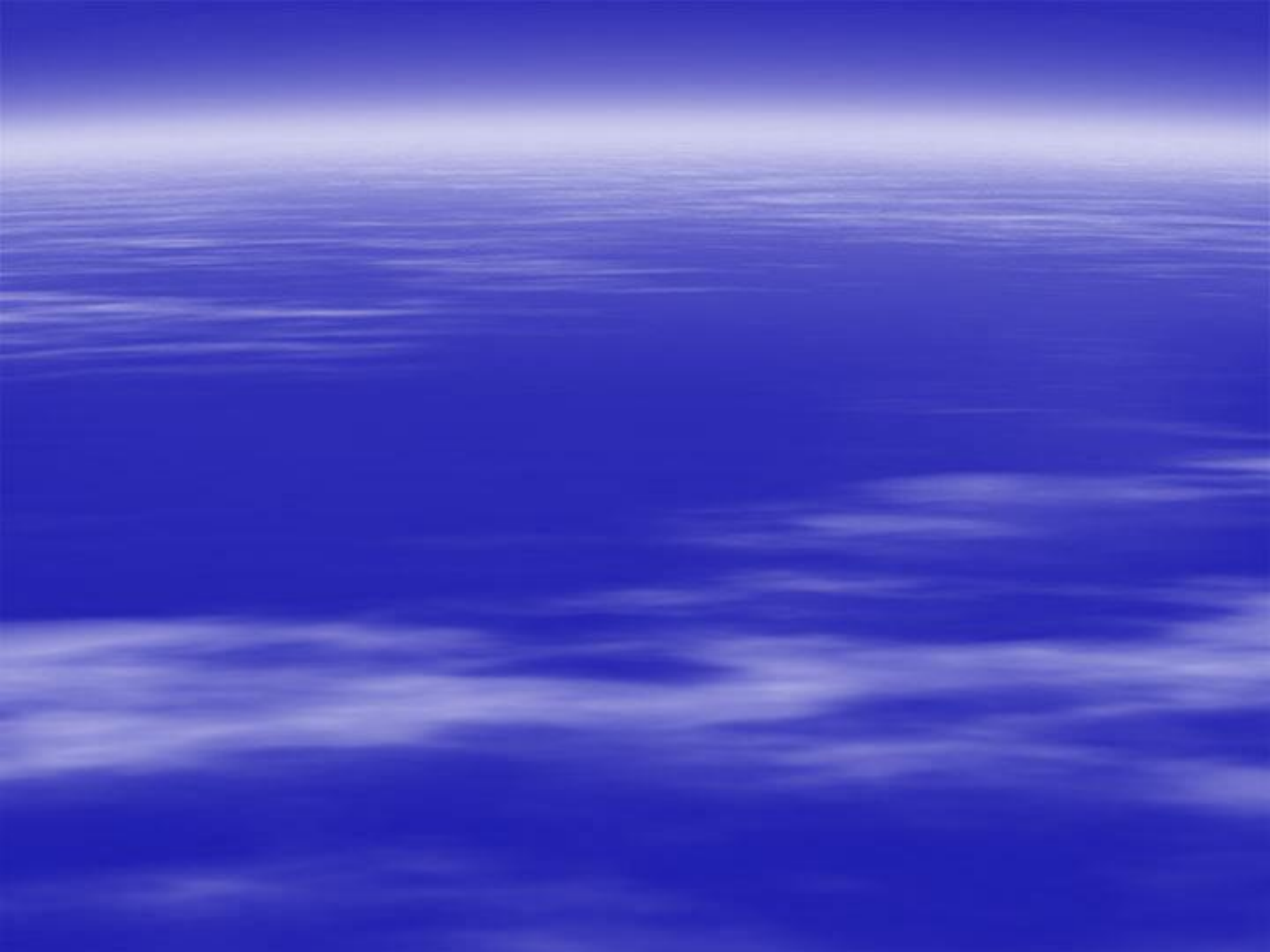


Wrought Iron Fence

Recommendation to SAWPA Commission

- Approve use of funds from the Building Reserve Account in an amount not-to-exceed \$30,000 for the installation of an 8-foot tall wrought iron fence on the west side of the SAWPA building.

Questions?





2017.06.19 09:34

Local Hazard Mitigation Plan Update

Item 6.I.

June 20, 2017

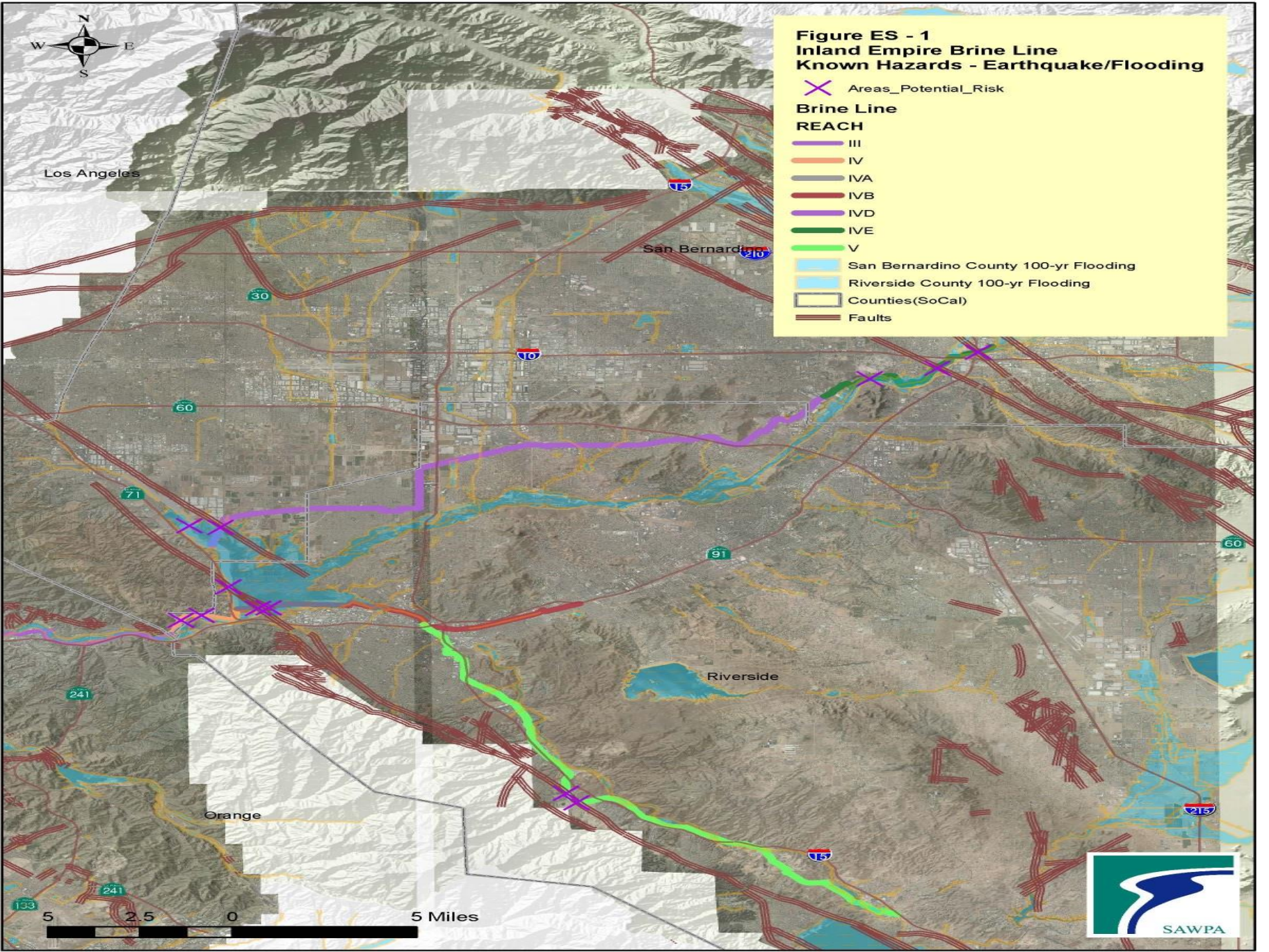
Local Hazard Mitigation Plan

Recommendation to SAWPA Commission

- Receive and file

Local Hazard Mitigation Plan

- Local Hazard Mitigation Plan – FEMA
Condition for federal disaster mitigation funds
- Lead Agencies are Riverside County
Emergency Management Department and San
Bernardino County Office of Emergency
Services.
- Brine Line risks and vulnerabilities are
identified and strategies developed to
prevent/minimize damage



**Figure ES - 1
Inland Empire Brine Line
Known Hazards - Earthquake/Flooding**

✕ Areas_Potential_Risk

Brine Line

REACH

III

IV

IVA

IVB

IVD

IVE

V

San Bernardino County 100-yr Flooding

Riverside County 100-yr Flooding

Counties(SoCal)

Faults



Local Hazard Mitigation Plan

- Main hazard mitigation projects include:
 - Acquisition of sufficient spare sections of pipe, various diameters and materials
 - Bypass pump and pipe
 - Pipeline protection in areas prone to flooding/erosion
- Purpose is to expedite repairs during a catastrophic event
- Future actions may include coordination with dischargers to have adequate brine storage
- Final LHMP will require adoption by SAWPA Commission

Local Hazard Mitigation Plan

Recommendation to SAWPA Commission

- Receive and file

Questions?

SAWPA

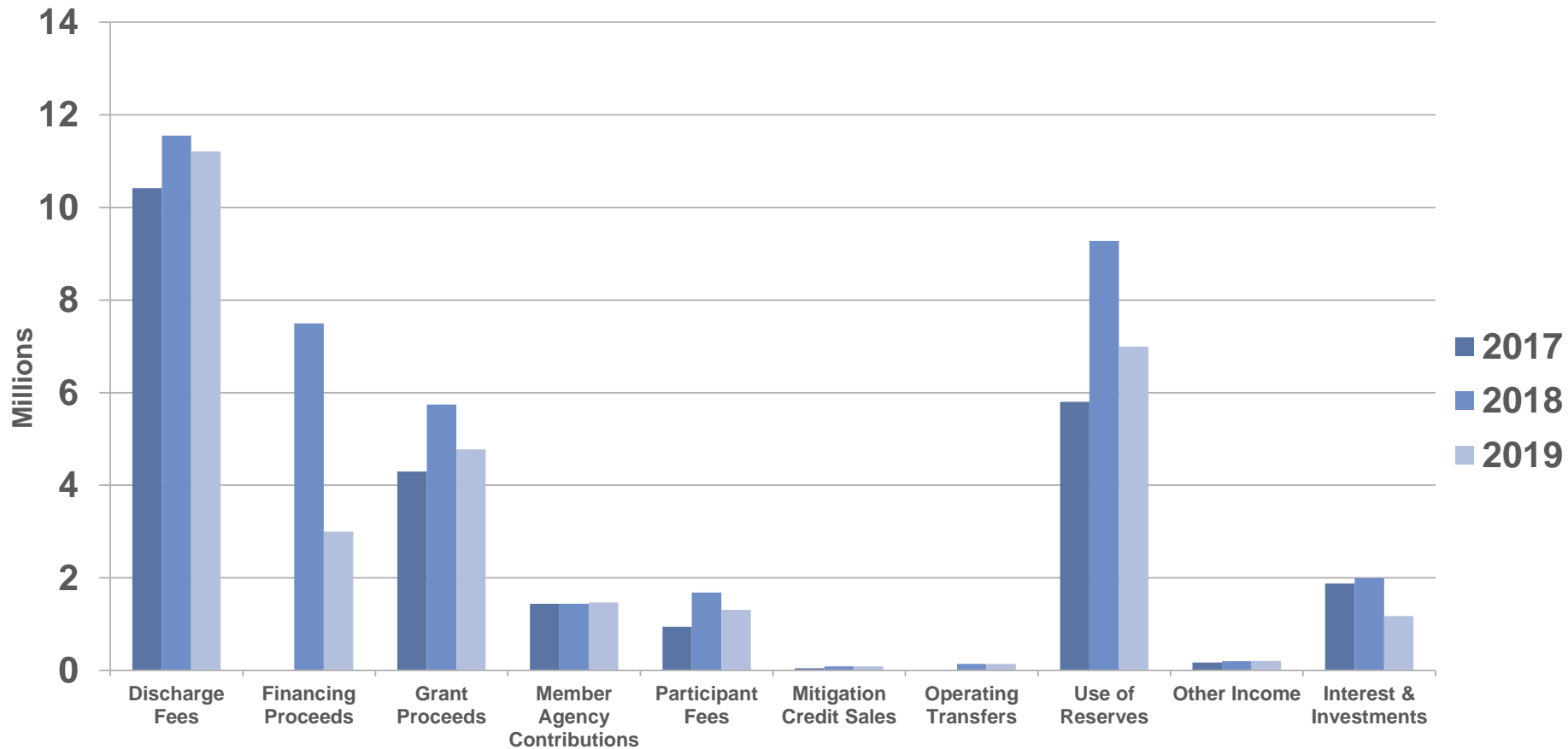
A blue fountain pen with a silver nib is positioned diagonally across the center of the image. The pen is resting on a document that features a line graph with a blue line. The graph has a y-axis with values 0000, 0050, and 0000, and an x-axis with labels for months: Feb., Apr., Jun., and Aug. A magnifying glass is visible on the right side of the image, focusing on the graph. The background is a light blue gradient.

FYE 2018 and 2019 Draft
Budget



- 1 Combined Budget**
- 2 Brine Line Operating Budget**
- 3 Brine Line Capital Budget**
- 4 OWOW Fund Budget**
- 5 Roundtables Fund Budget**
- 6 General Fund Budget**
- 7 Member Agency Contributions**

Combined Revenues



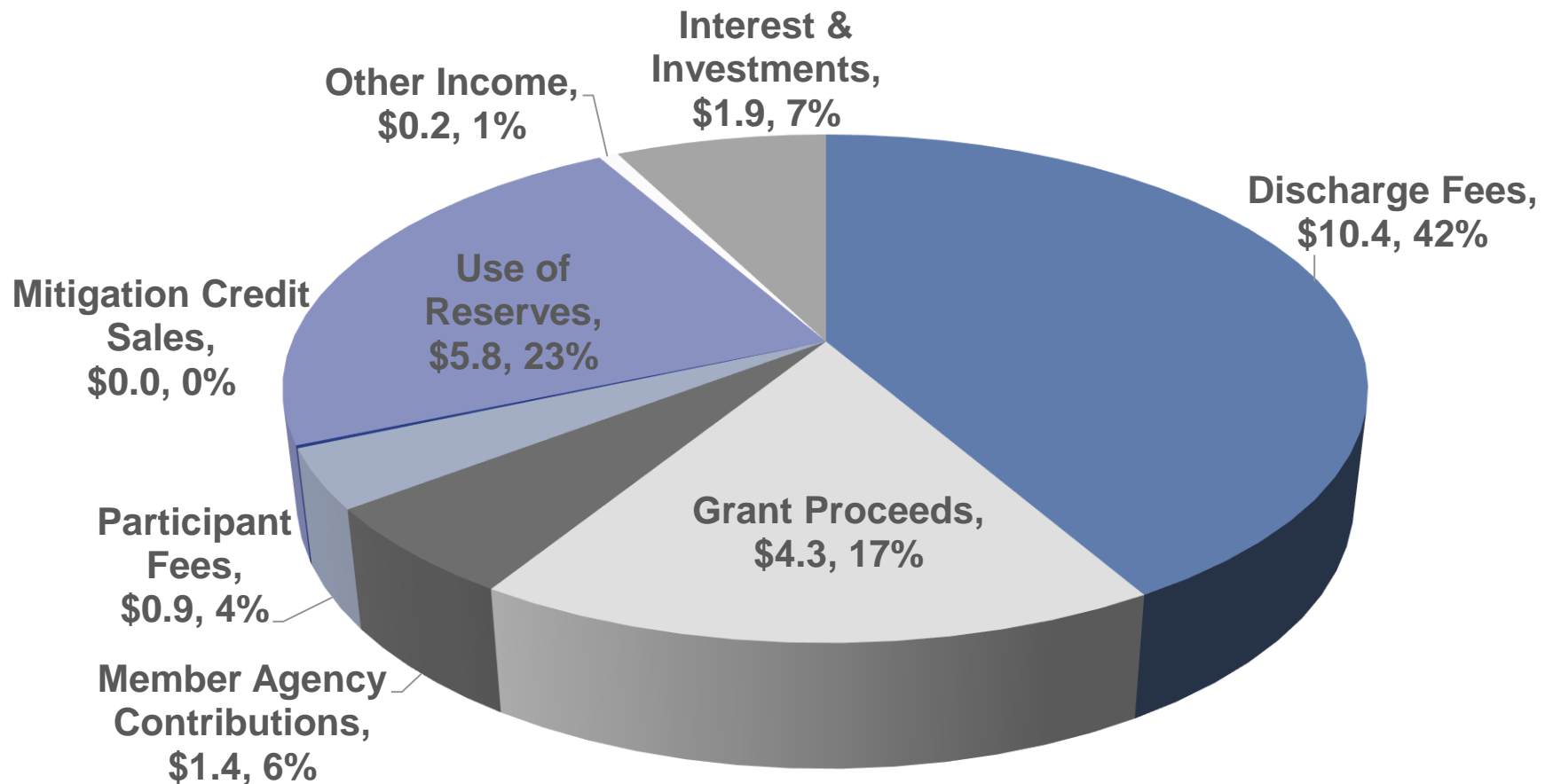


Combined Revenues

Revenue	FYE 2017 Budget	FYE 2018 Budget	% (Inc.)/ Dcr.	FYE 2019 Budget	%(Inc.)/ Dcr.
Discharge Fees	\$10,417,136	\$11,555,161	(10.9%)	\$11,208,867	3.0%
Financing Proceeds	0	7,500,000	(100.0%)	3,000,000	60.0%
Grant Proceeds	4,296,936	5,741,297	(33.6%)	4,777,256	16.8%
Member Agency Contributions	1,439,307	1,442,118	(0.2%)	1,471,695	(2.1%)
Participant Fees	946,878	1,682,056	(77.6%)	1,309,273	22.2%
Mitigation Credit Sales	44,490	88,980	(100.0%)	88,980	0.0%
Operating Transfers	0	144,252	(100.0%)	144,252	0.0%
Use of Reserves	5,805,215	9,280,479	(59.9%)	6,995,901	24.6%
Other Income	171,782	202,027	(17.6%)	206,674	(2.3%)
Interest & Investments	1,878,952	1,994,772	(6.2%)	1,173,582	41.2%
Total	\$25,000,696	\$39,631,141	(58.5%)	\$30,376,479	23.4%

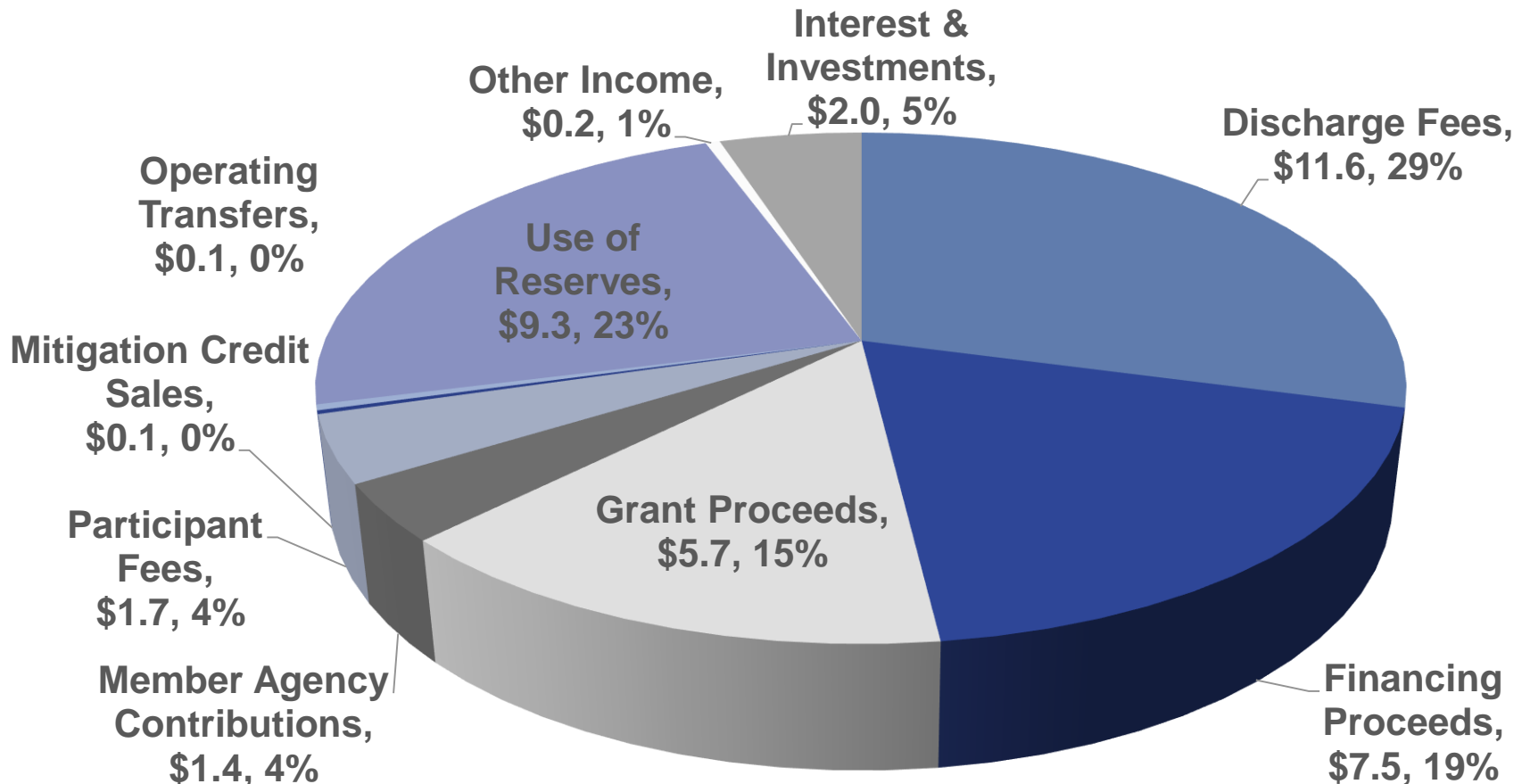
Combined Budget

FYE 2017 Revenues - \$25.0 M



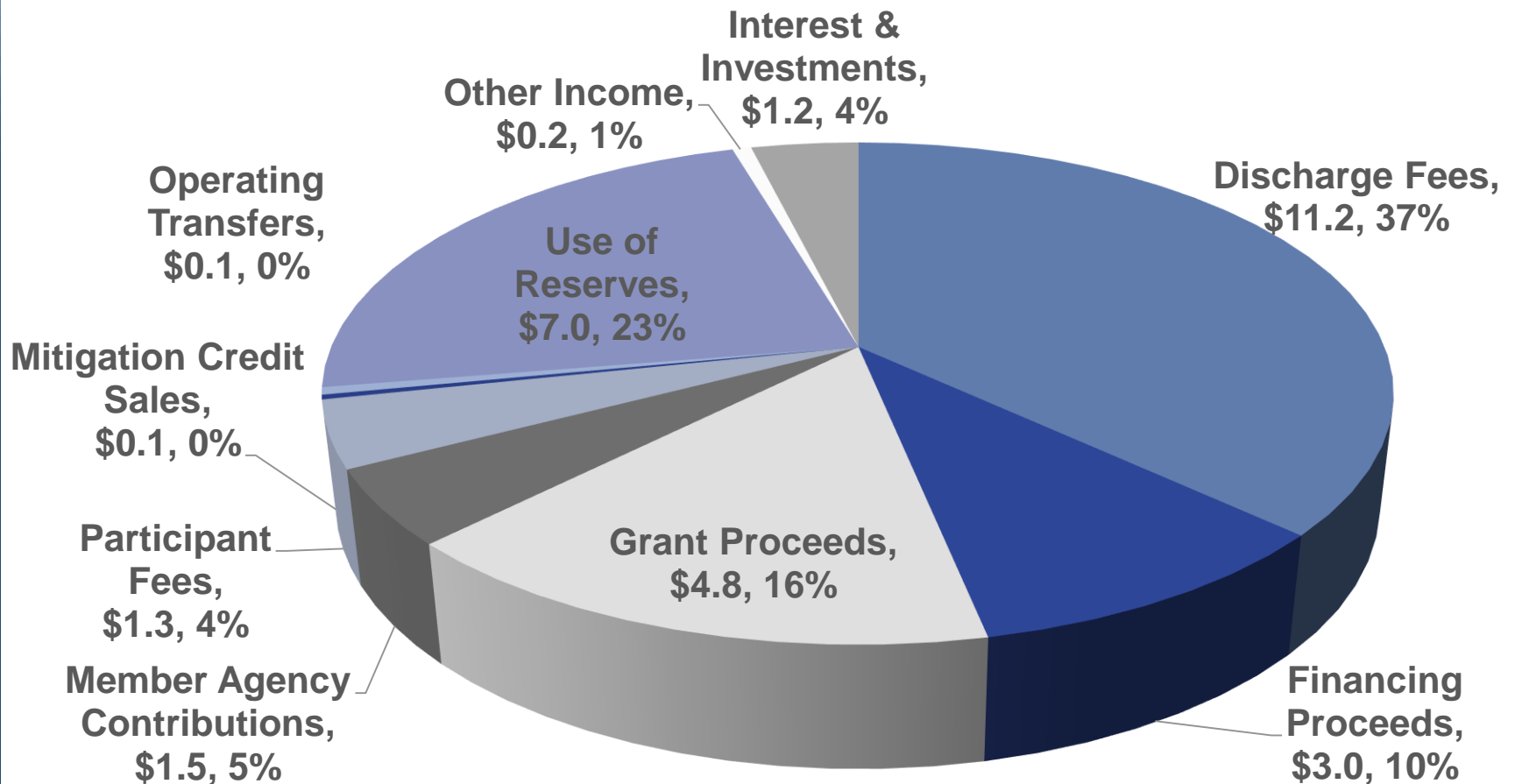
Combined Budget

FYE 2018 Revenues - \$39.6 M

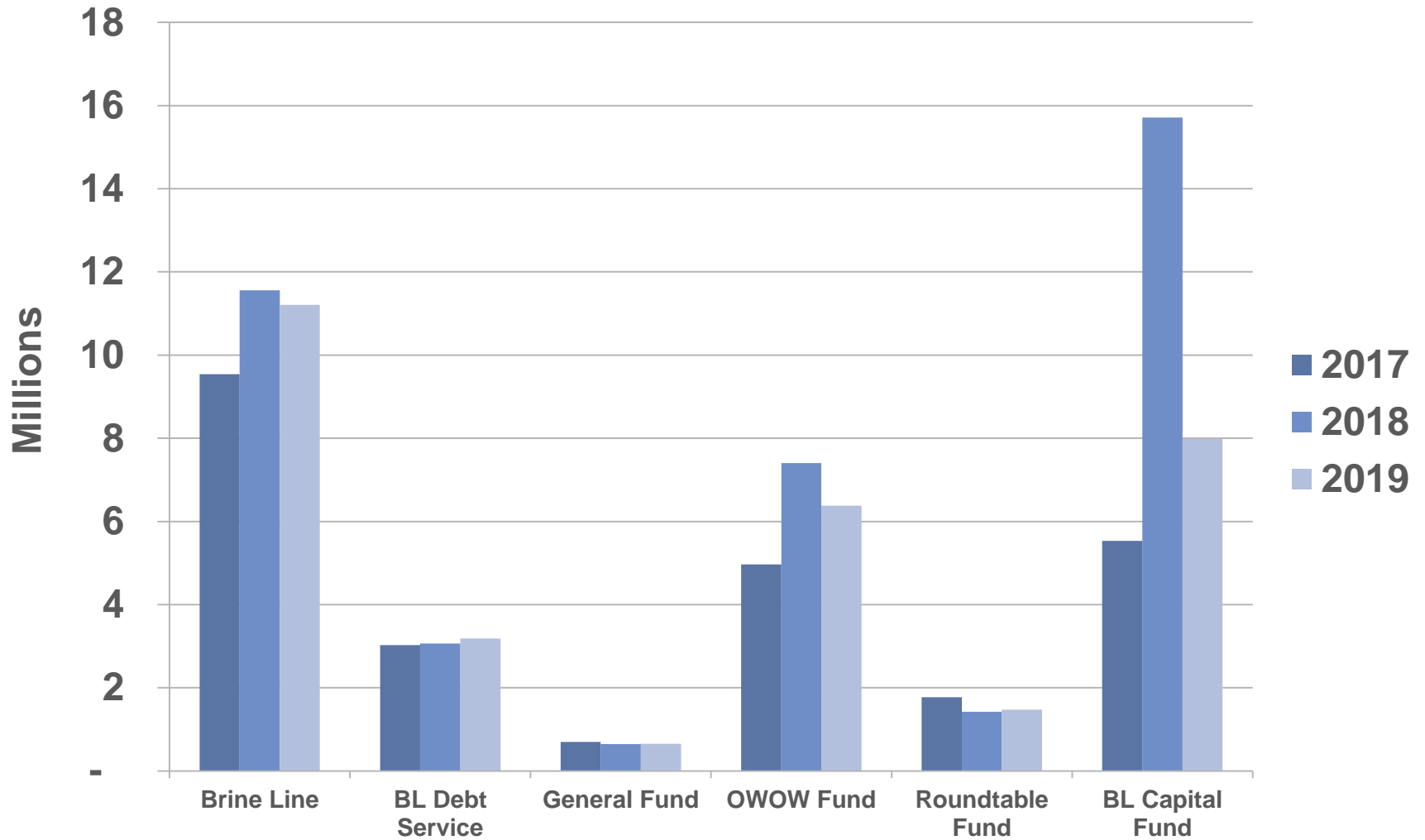


Combined Budget

FYE 2019 Revenues - \$30.4 M



Combined Expenses



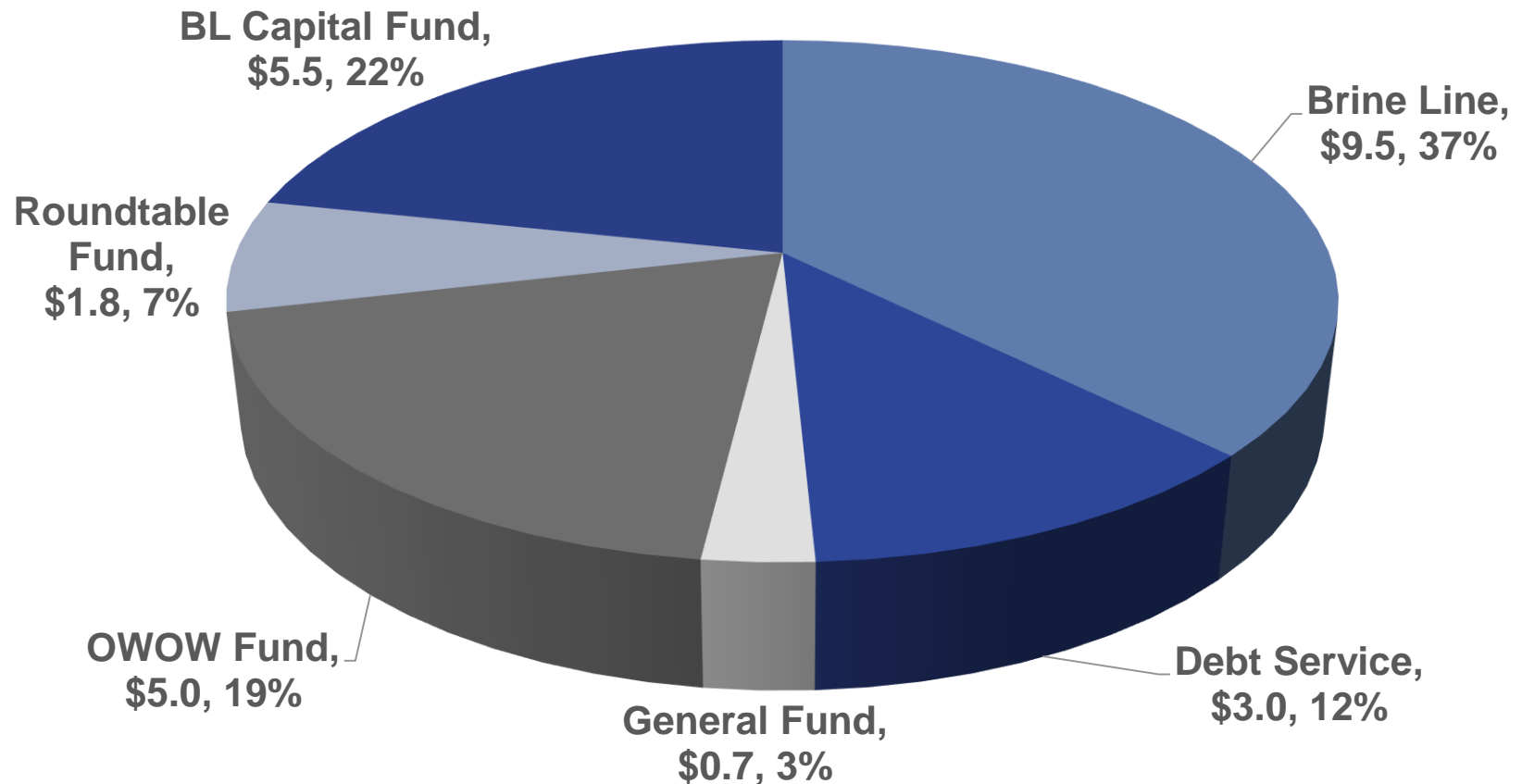


Combined Expenses

Revenue	FYE 2017 Budget	FYE 2018 Budget	% (Inc.)/ Dcr.	FYE 2019 Budget	%(Inc.)/ Dcr.
Brine Line Enterprise Fund	\$9,539,179	\$11,555,161	(21.19%)	\$11,208,867	3.0%
Brine Line Debt Service	3,028,588	3,060,719	(1.1%)	3,183,451	(4.0%)
General Fund	699,307	646,118	7.6%	650,695	(0.7%)
OWOW Fund	4,963,864	7,403,317	(49.1%)	6,380,106	13.8%
Roundtables Fund	1,772,928	1,419,206	20.0%	1,475,981	(4.0%)
BL Capital Fund	5,533,536	15,714,532	(184.0%)	7,986,032	49.2%
Total	\$25,537,400	\$39,799,053	(55.8%)	\$30,885,132	22.4%

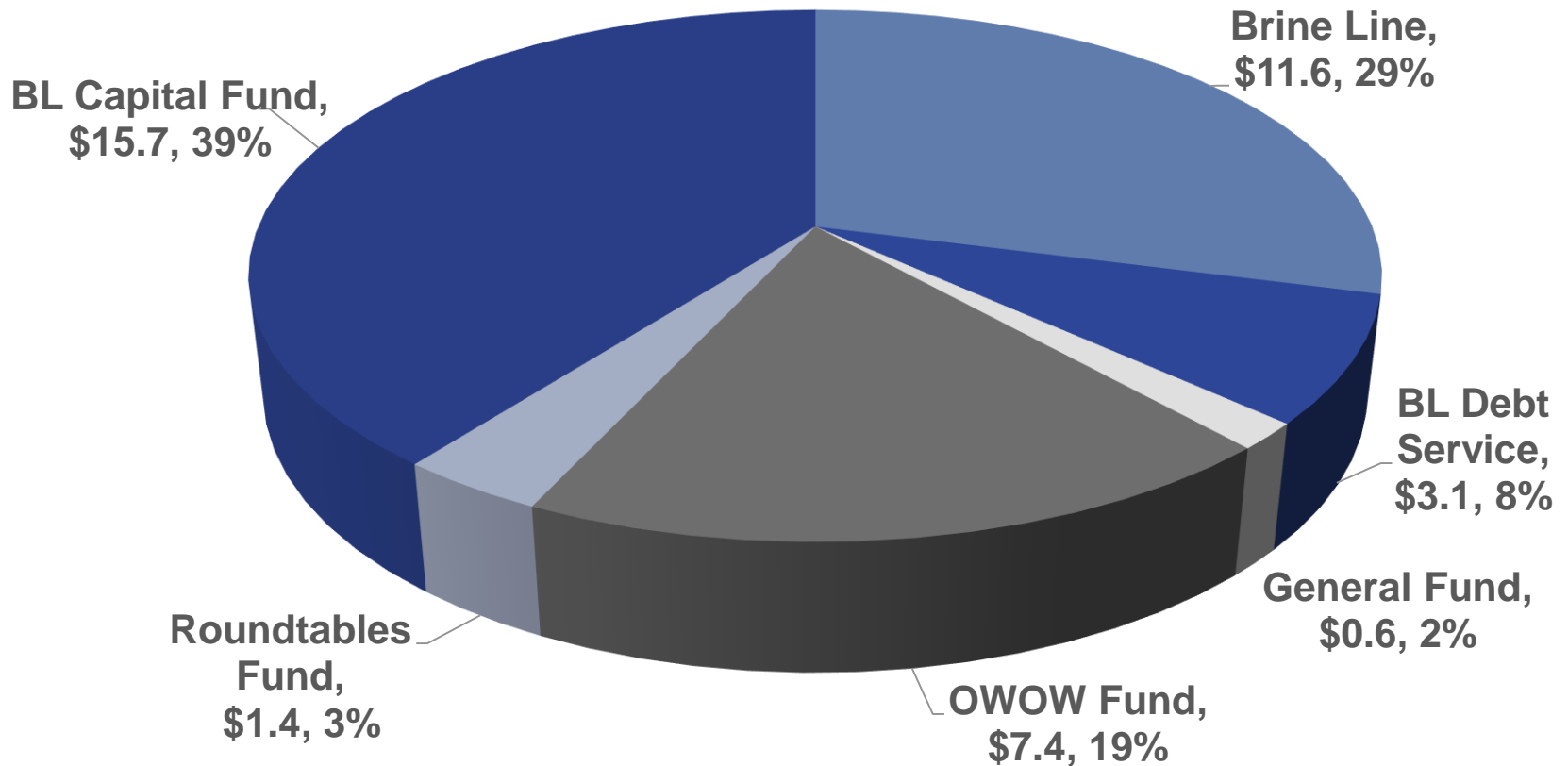
Combined Budget

FYE 2017 Expenses - \$25.5 M



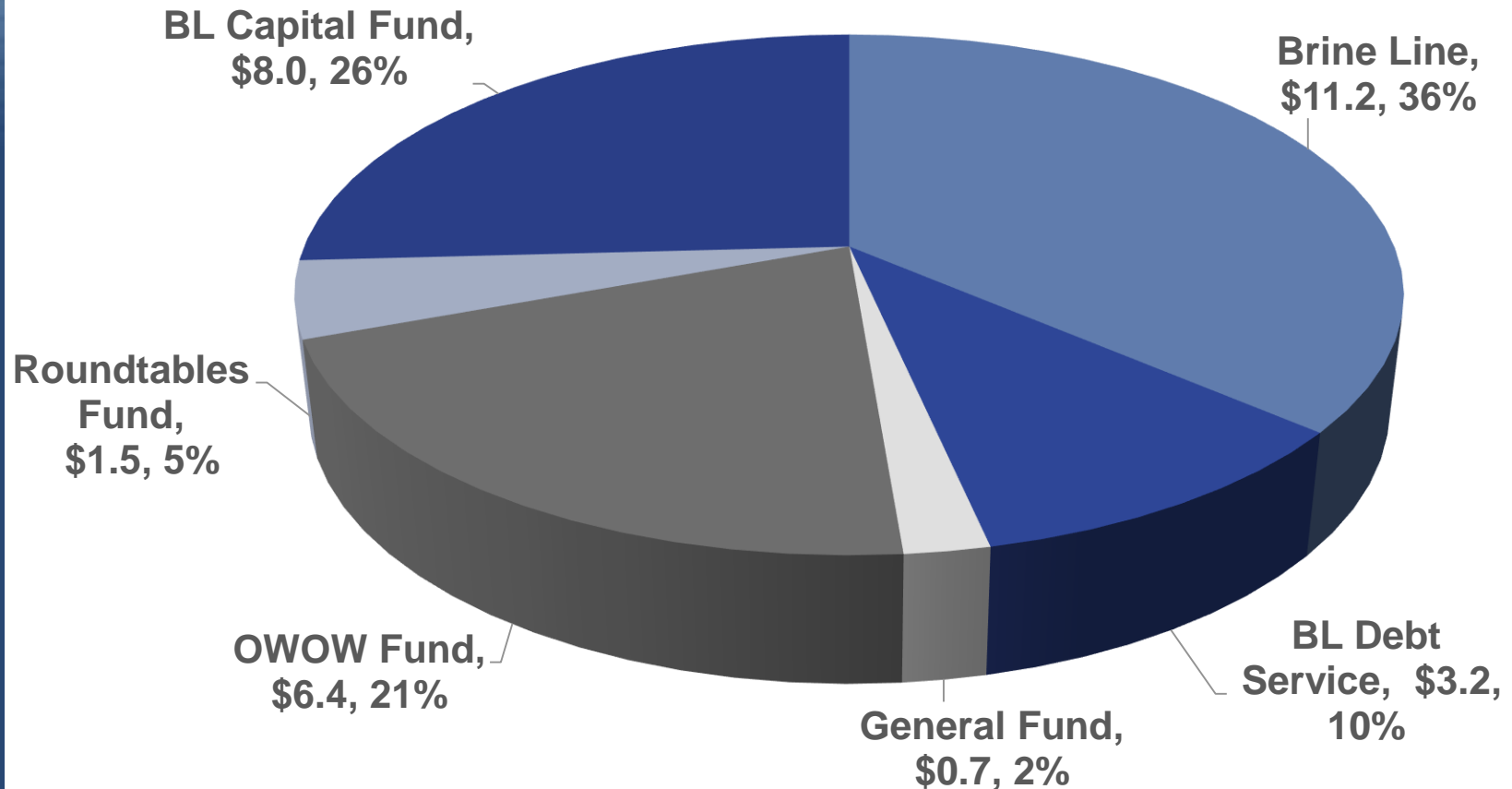
Combined Budget

FYE 2018 Expenses - \$39.8 M



Combined Budget

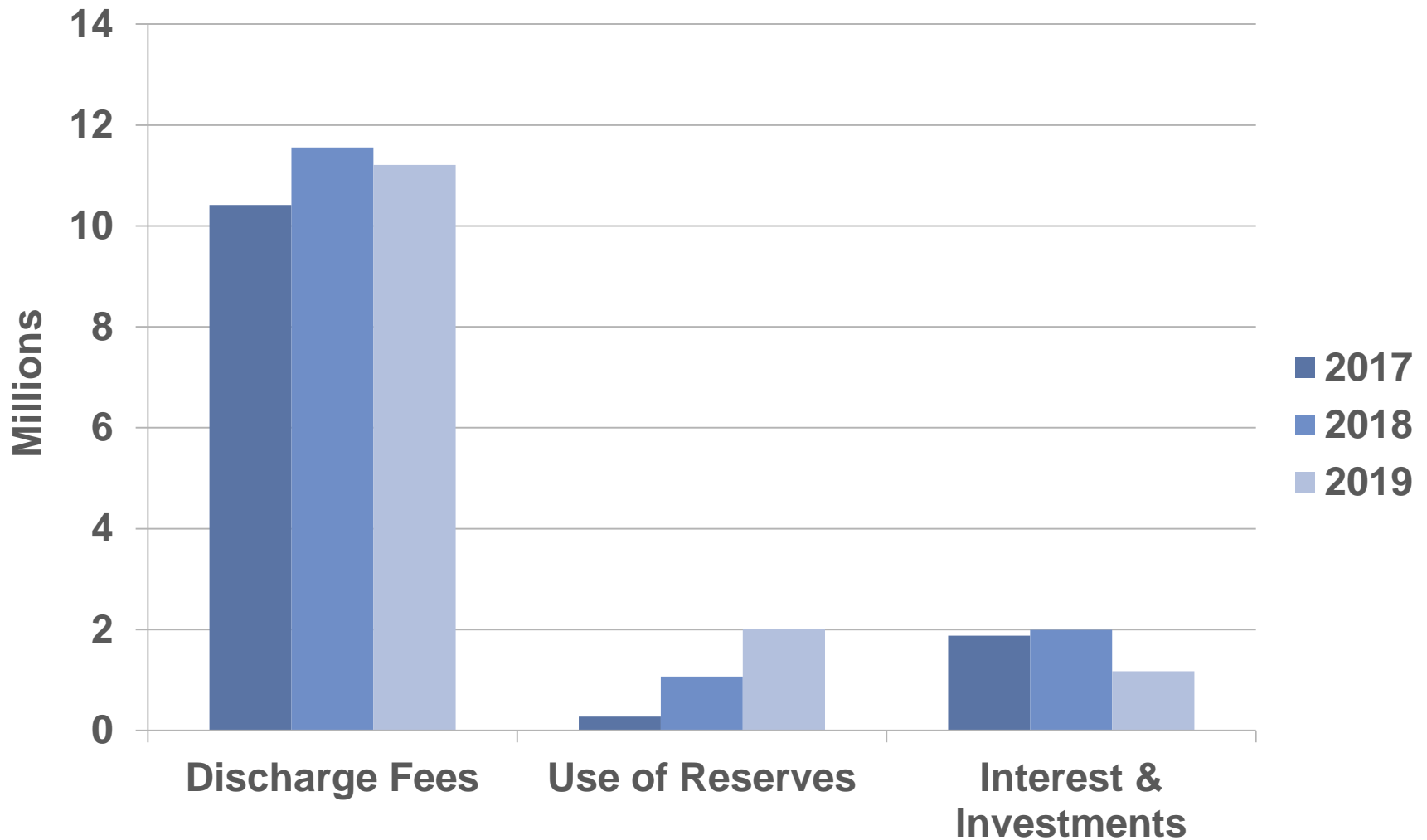
FYE 2019 Expenses - \$30.9 M



Brine Line Operations & Capital Budget

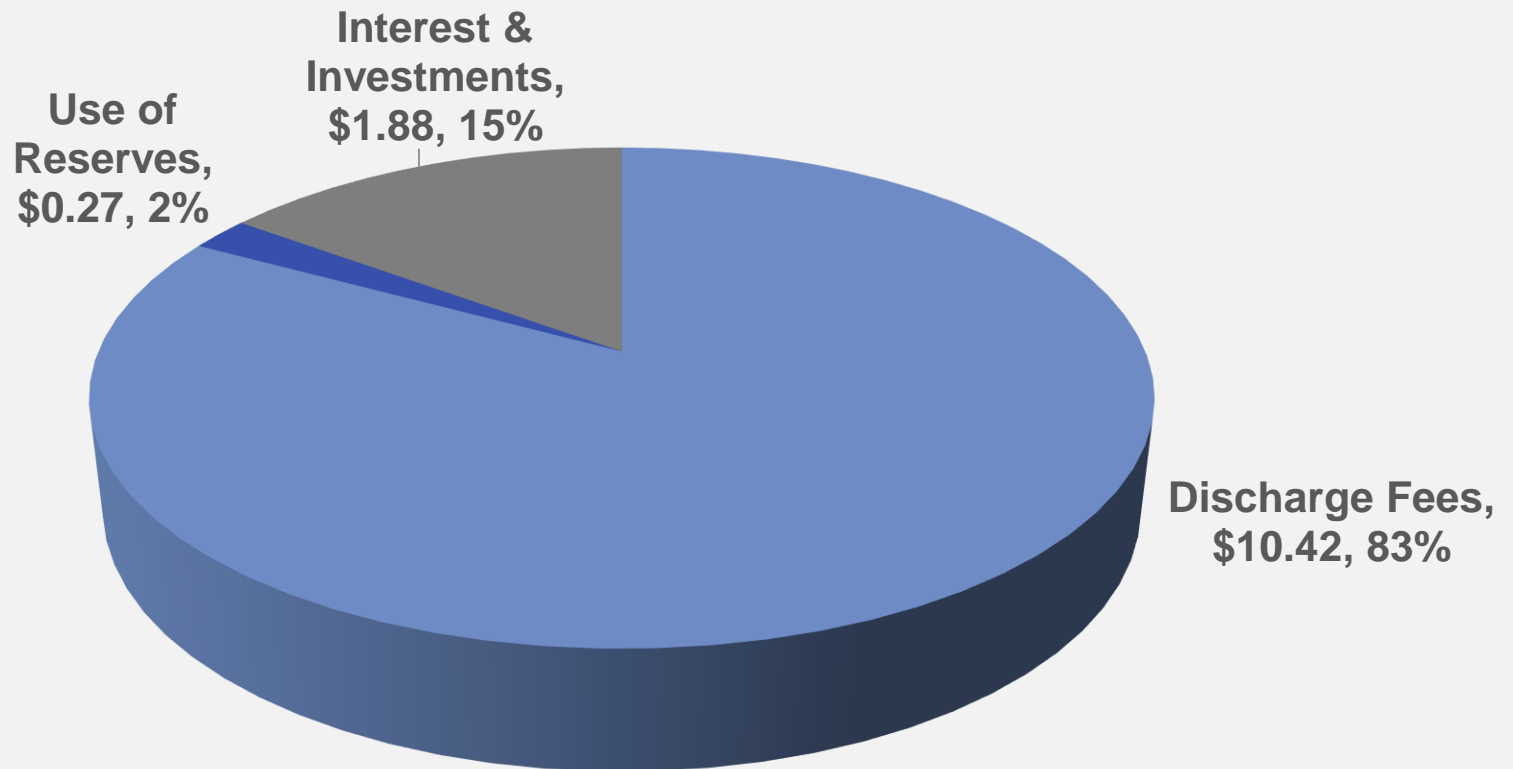


Brine Line Enterprise - Revenue



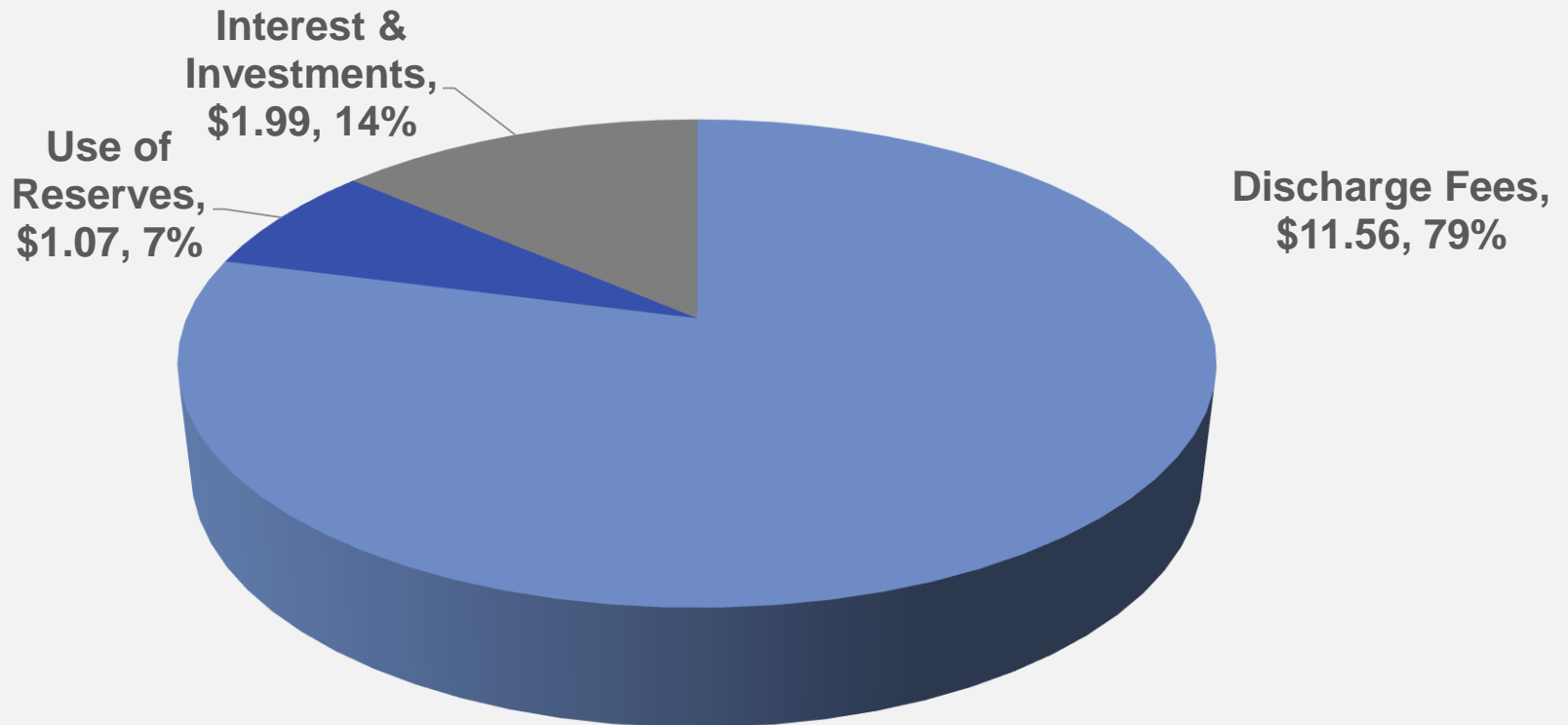
FYE 2017

Brine Line Revenues \$12.57 M



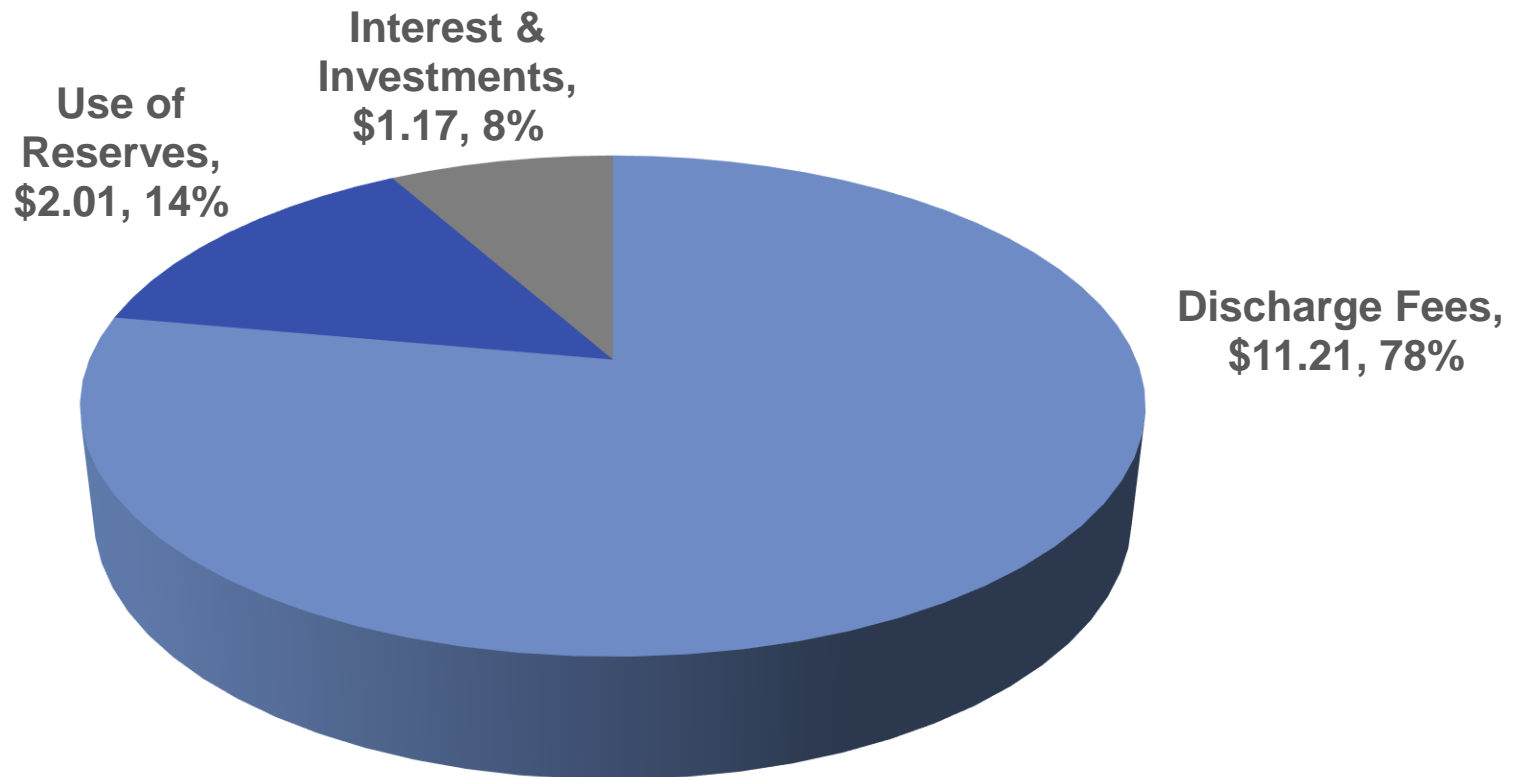
FYE 2018

Brine Line Revenues \$14.62 M

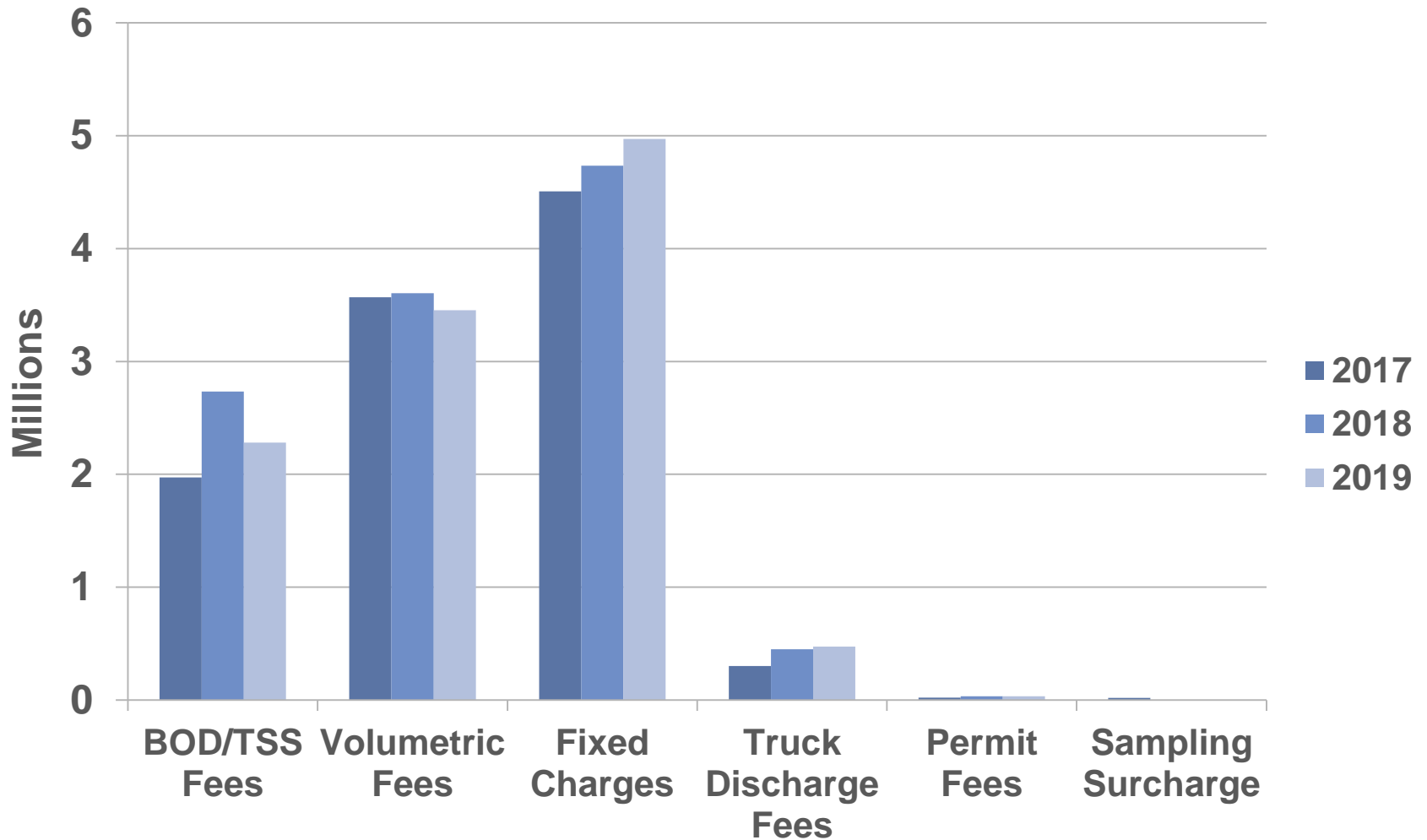


FYE 2019

Brine Line Revenues \$14.39 M

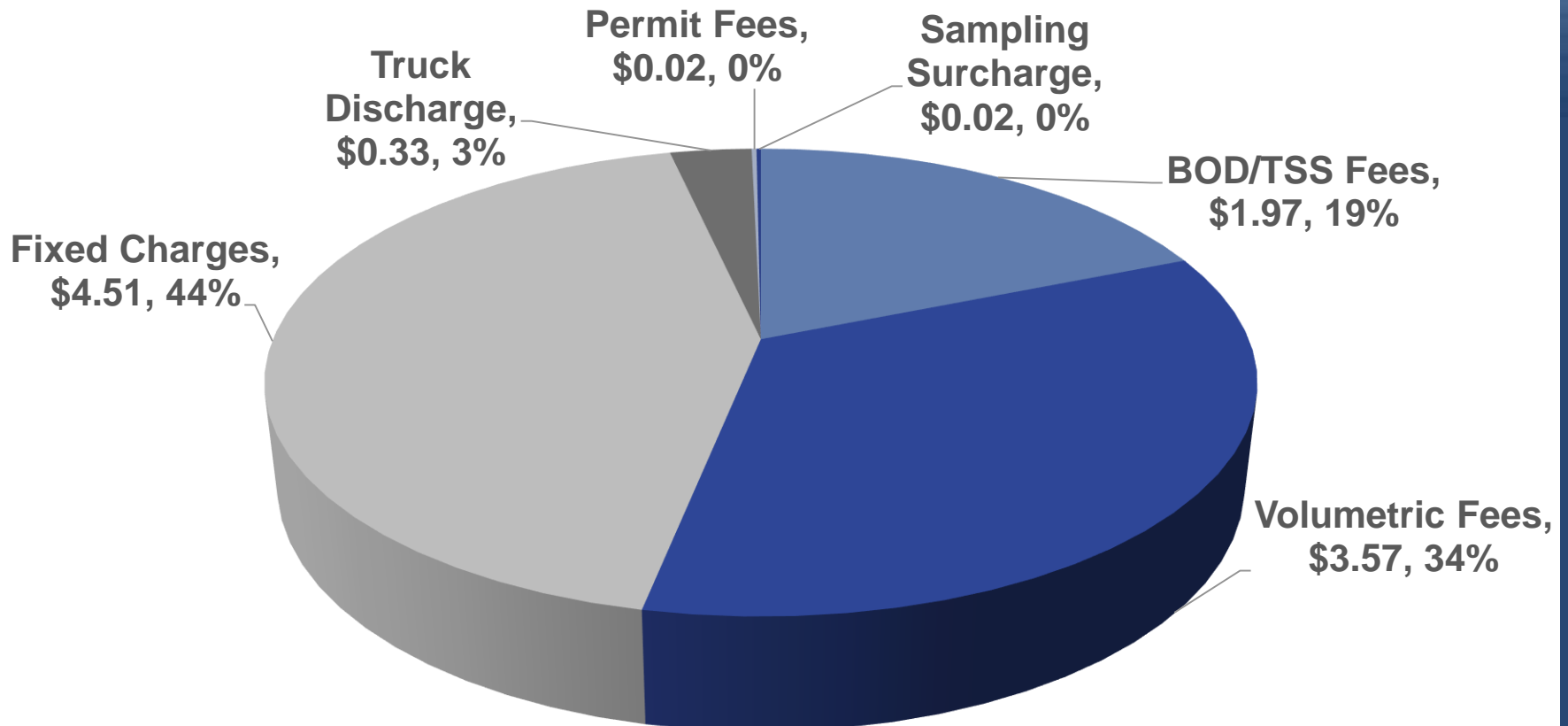


Discharge Fees



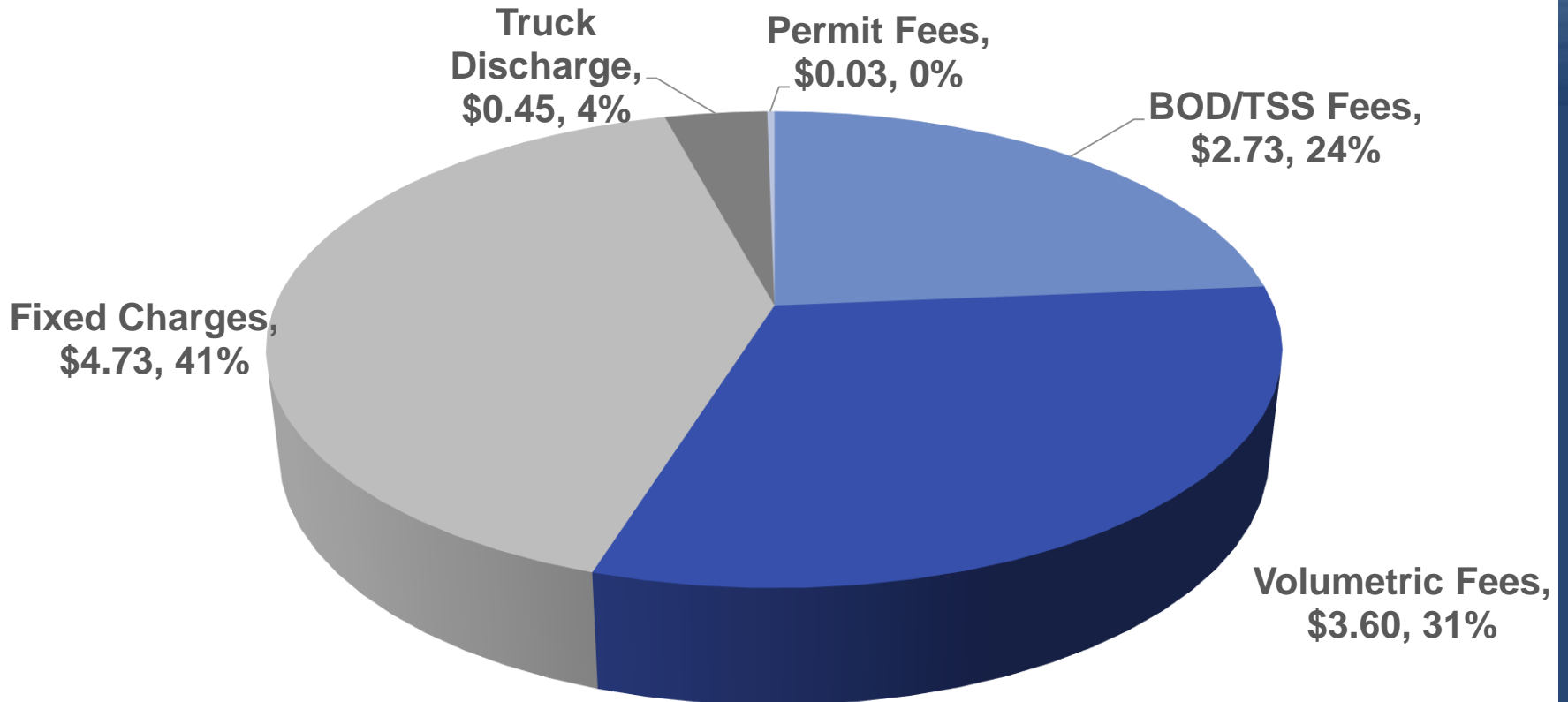
FYE 2017

Discharge Fees \$10.42 M



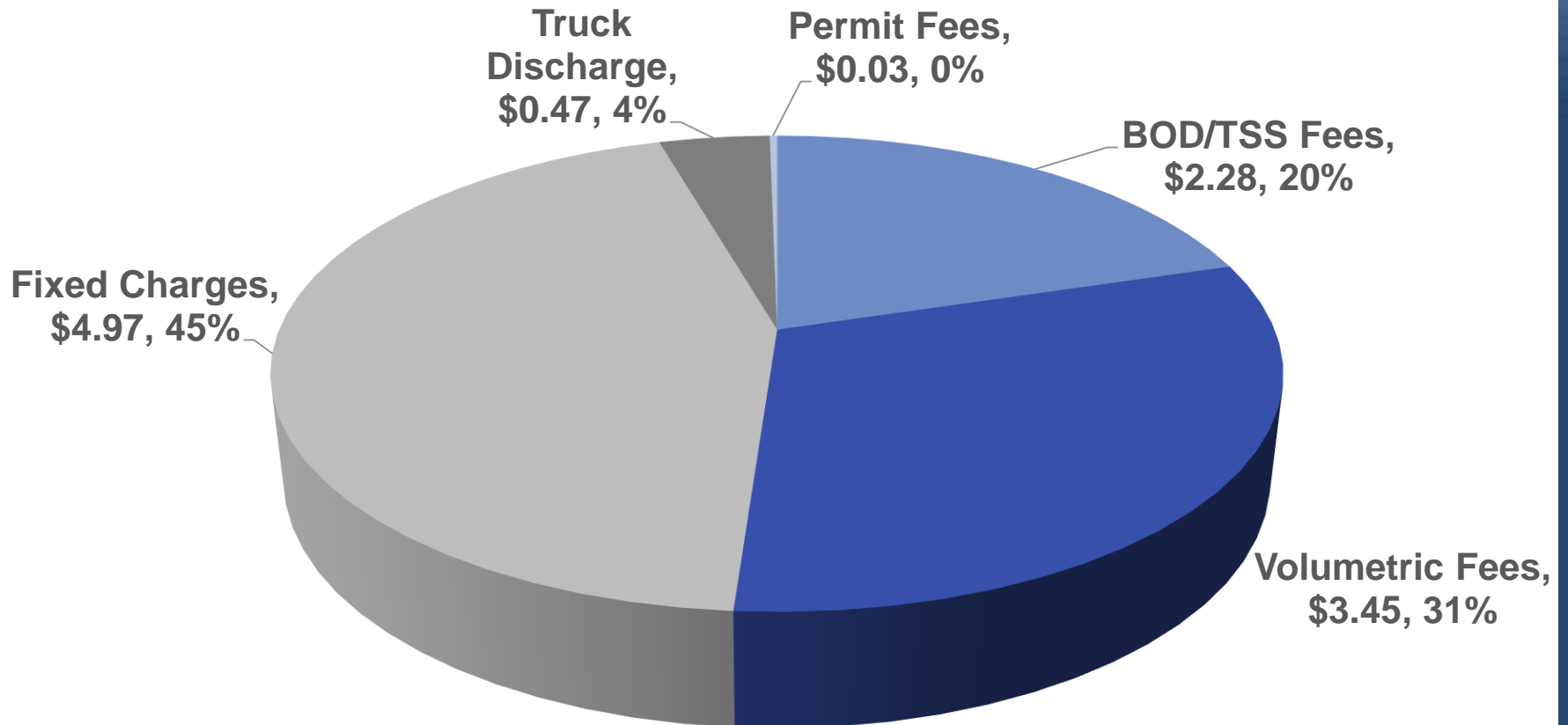
FYE 2018

Discharge Fees \$11.56 M

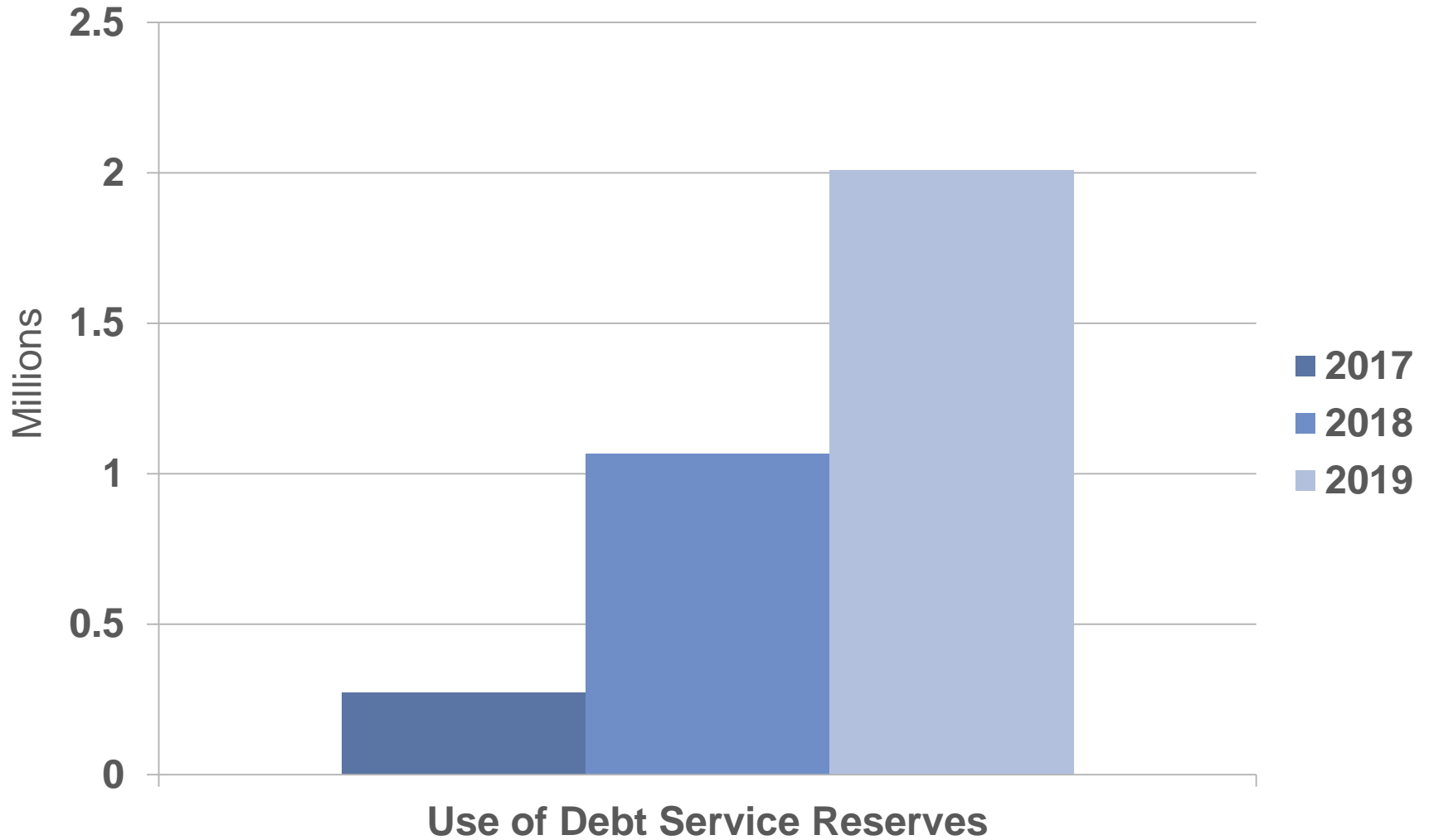


FYE 2019

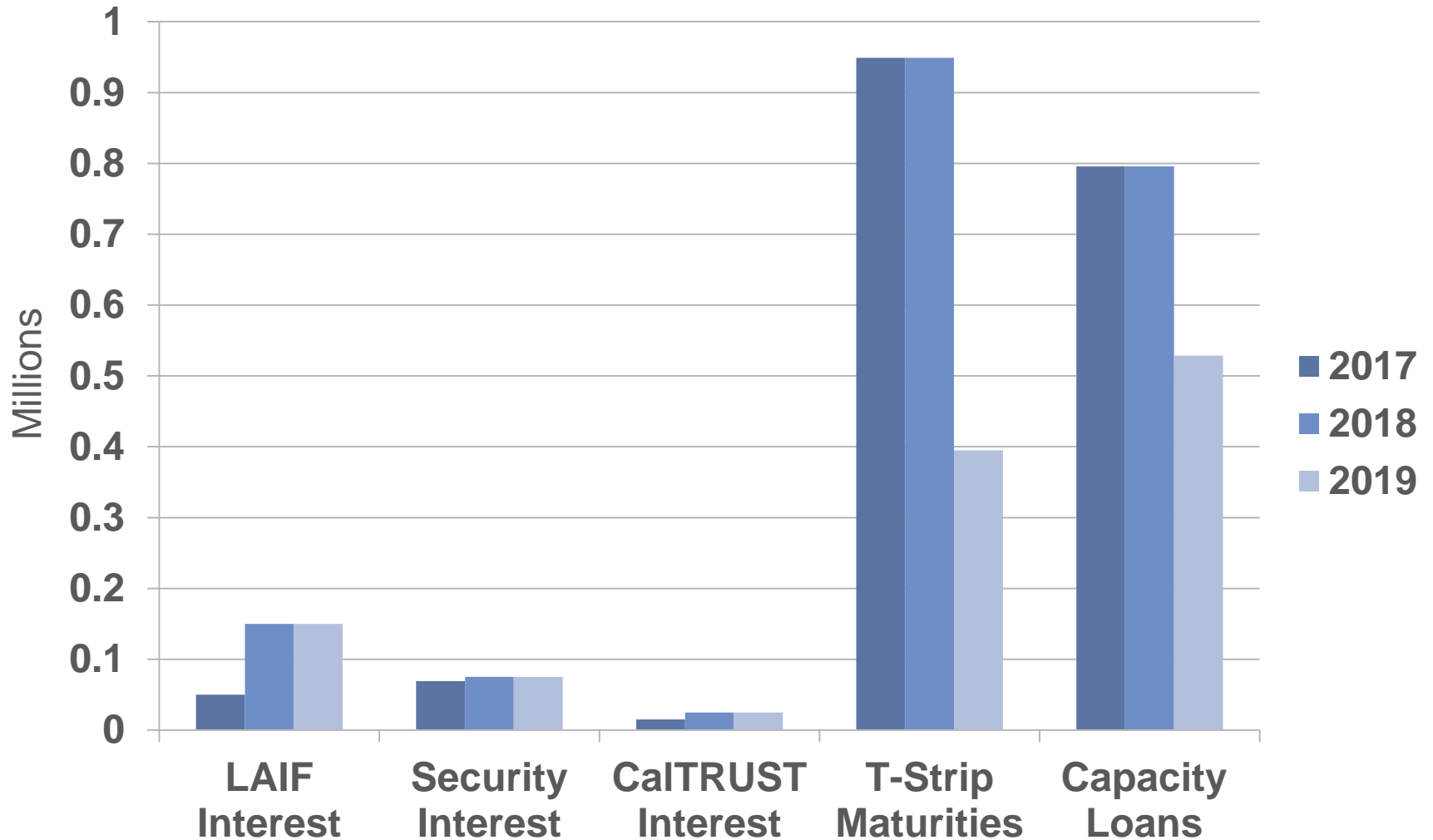
Discharge Fees \$11.21 M



Use of Reserves

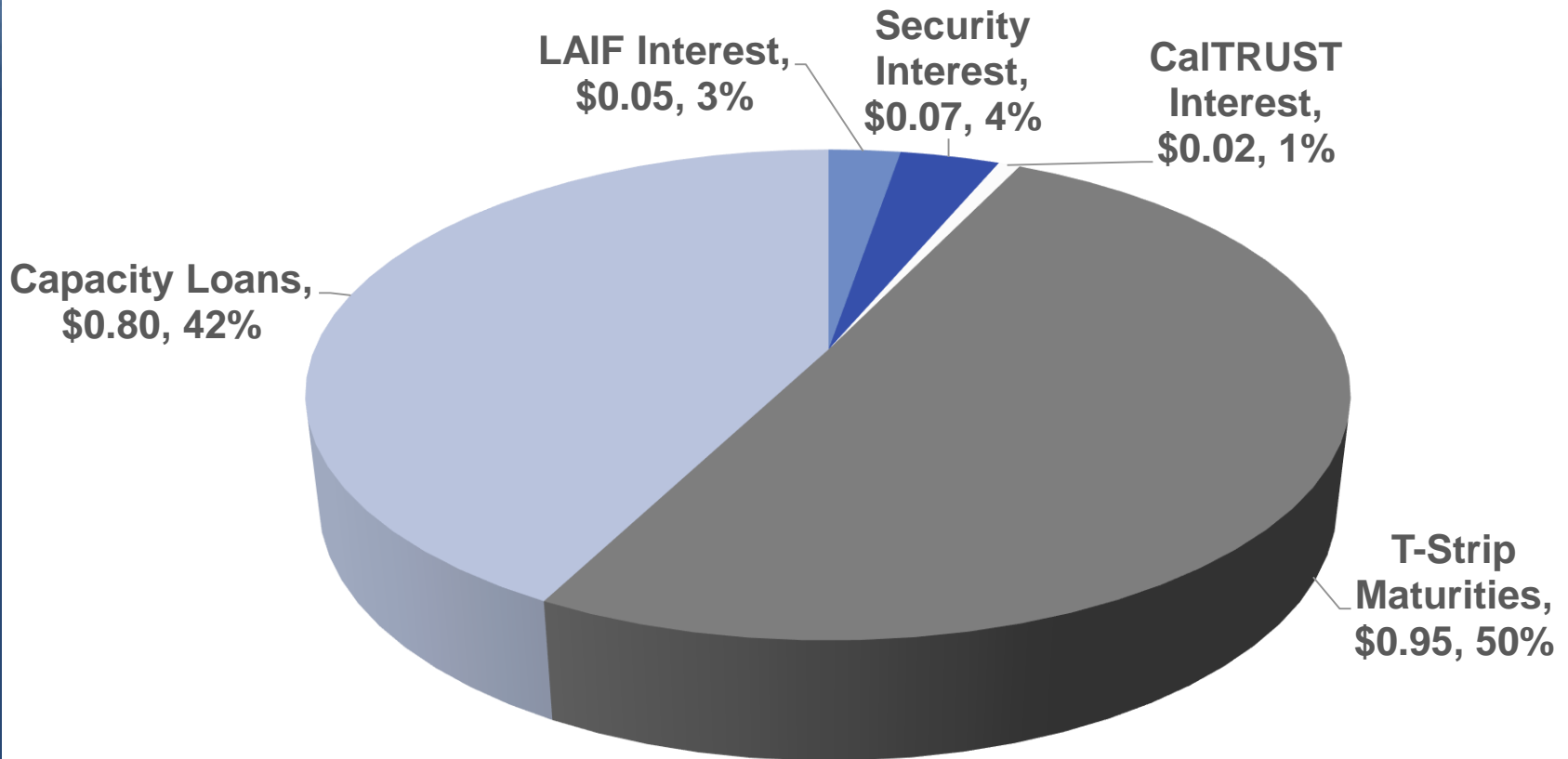


Interest & Investments



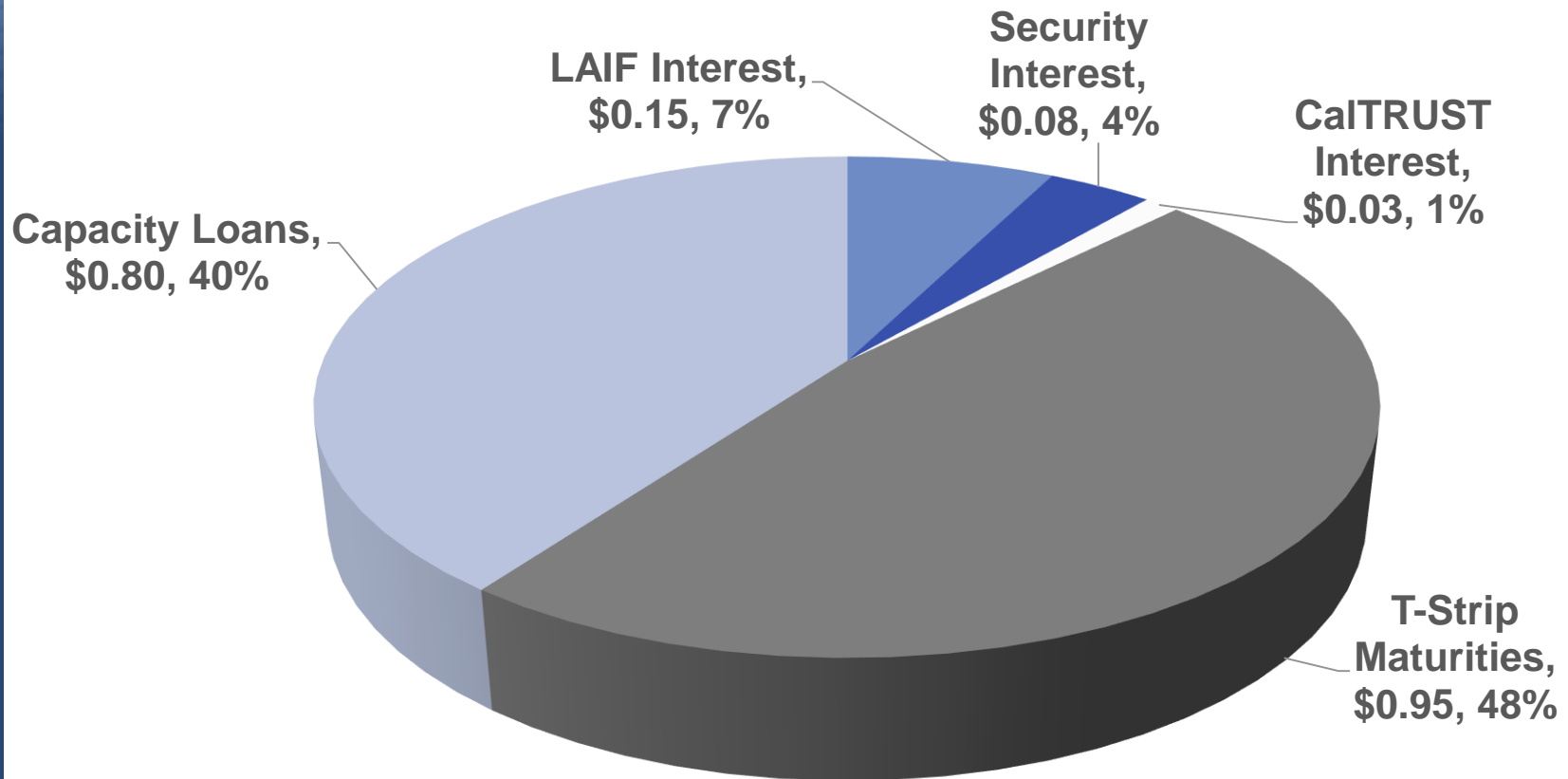
FYE 2017

Interest & Investments \$1.88 M



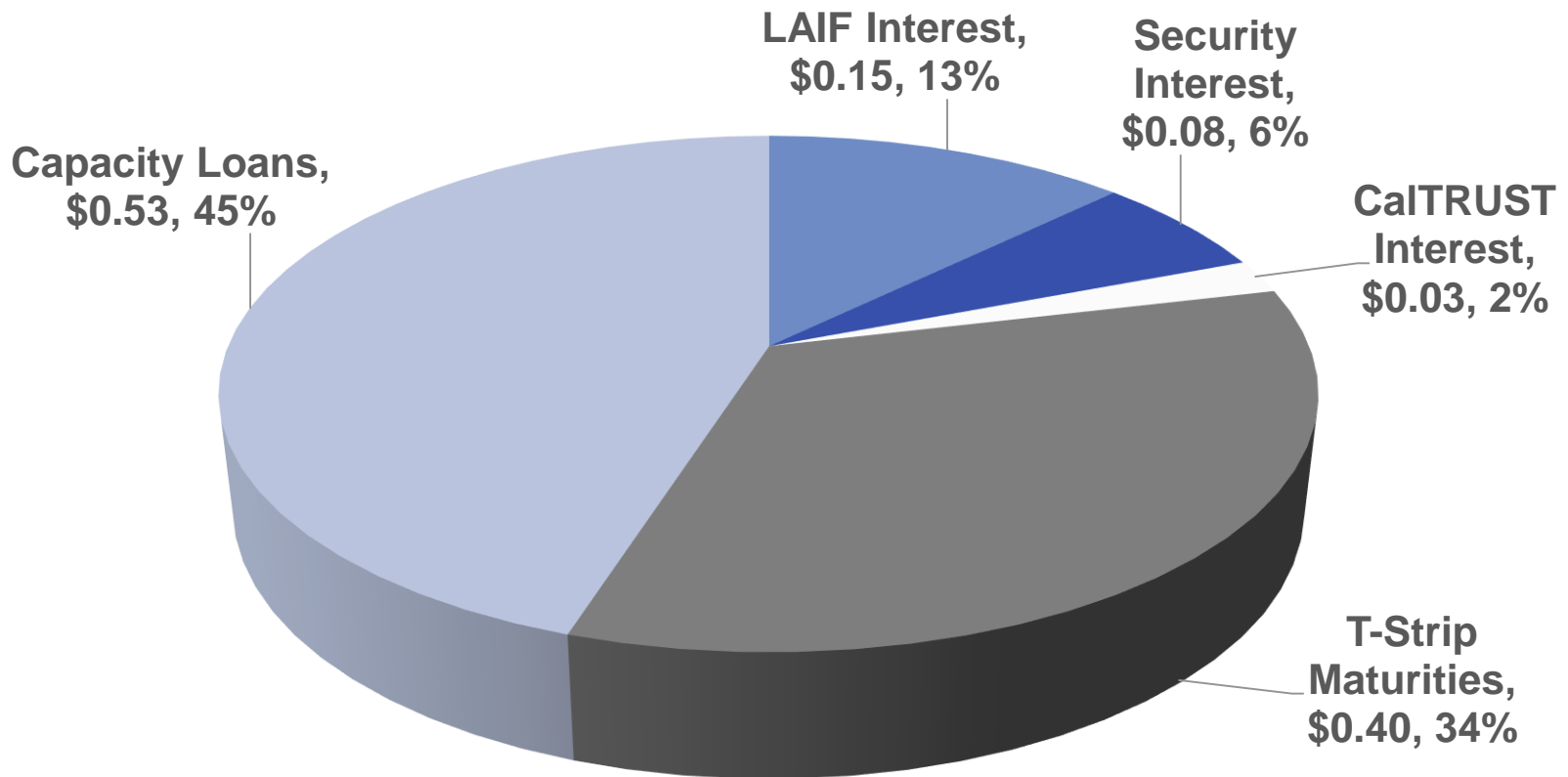
FYE 2018

Interest & Investments \$1.99 M

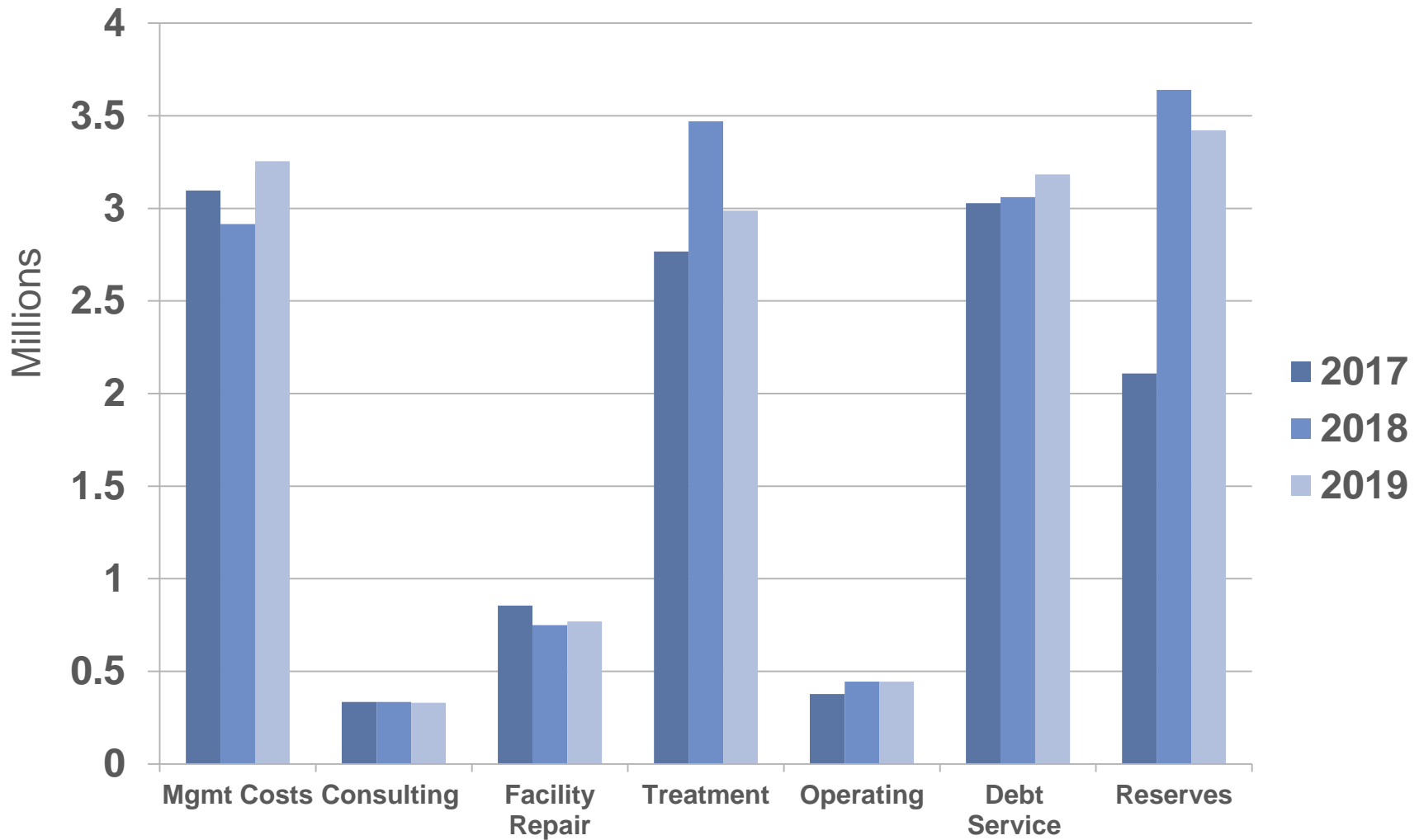


FYE 2019

Interest & Investments \$1.17 M

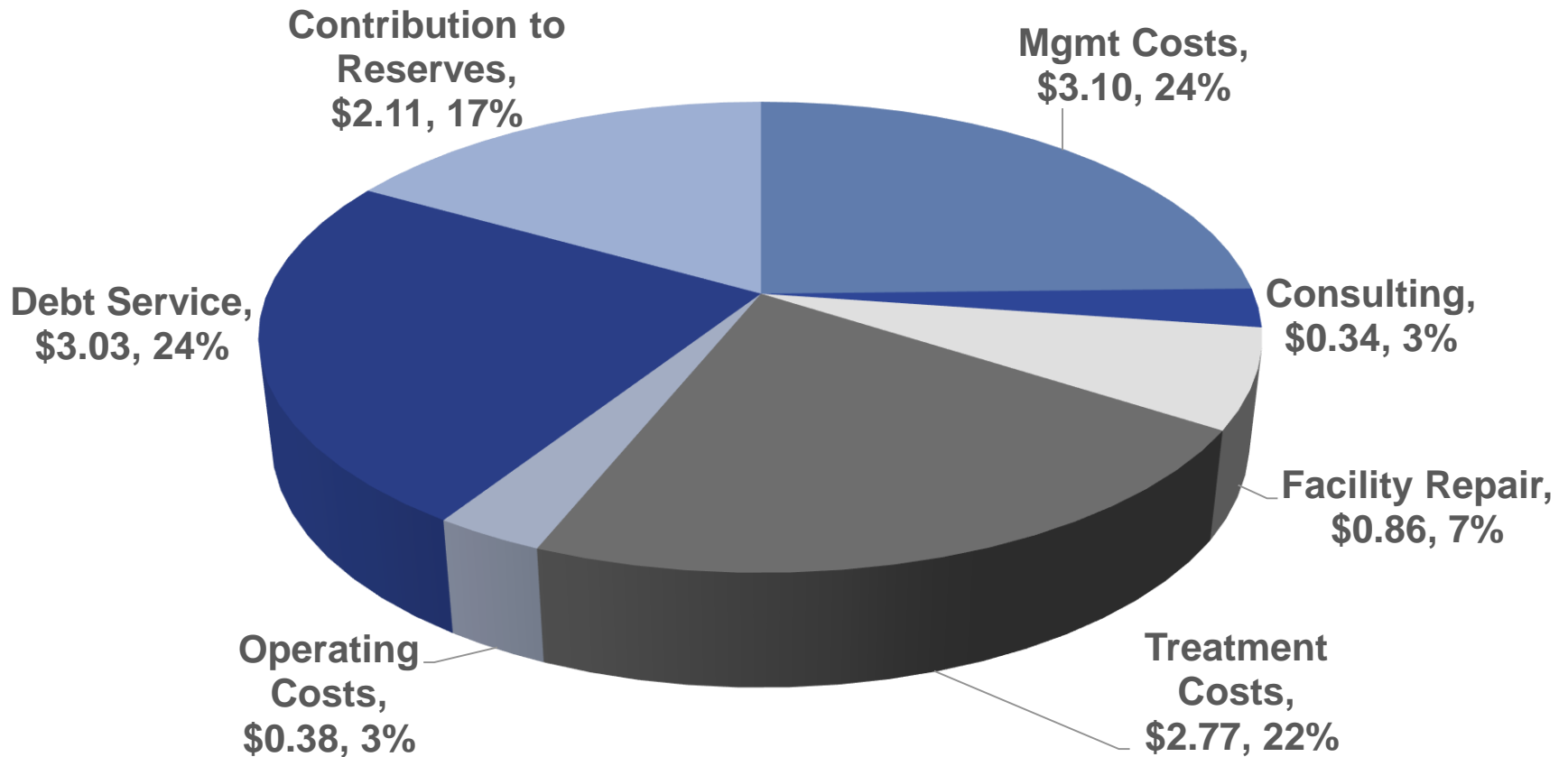


Brine Line Enterprise - Expenses



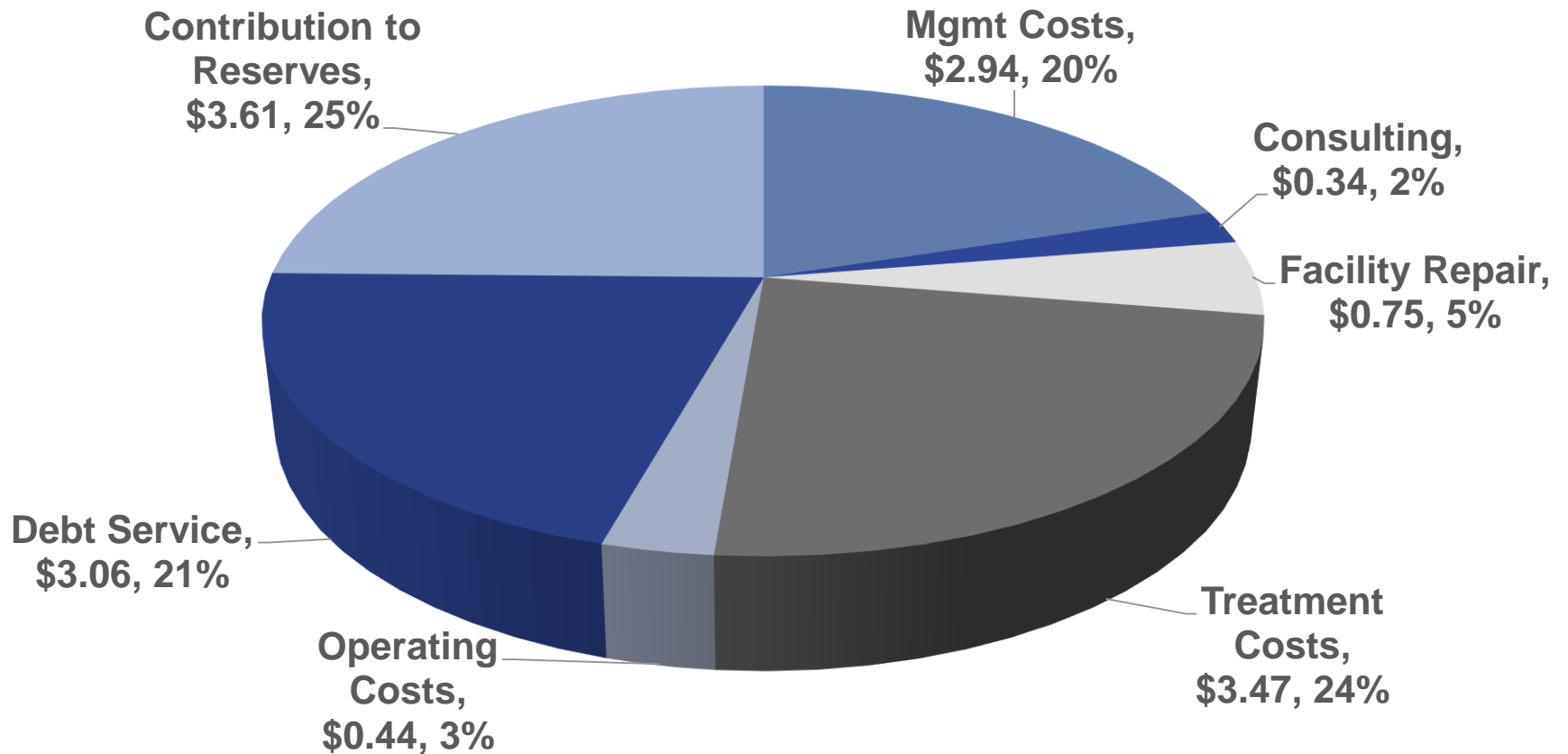
FYE 2017

Brine Line Expenses \$12.57 M



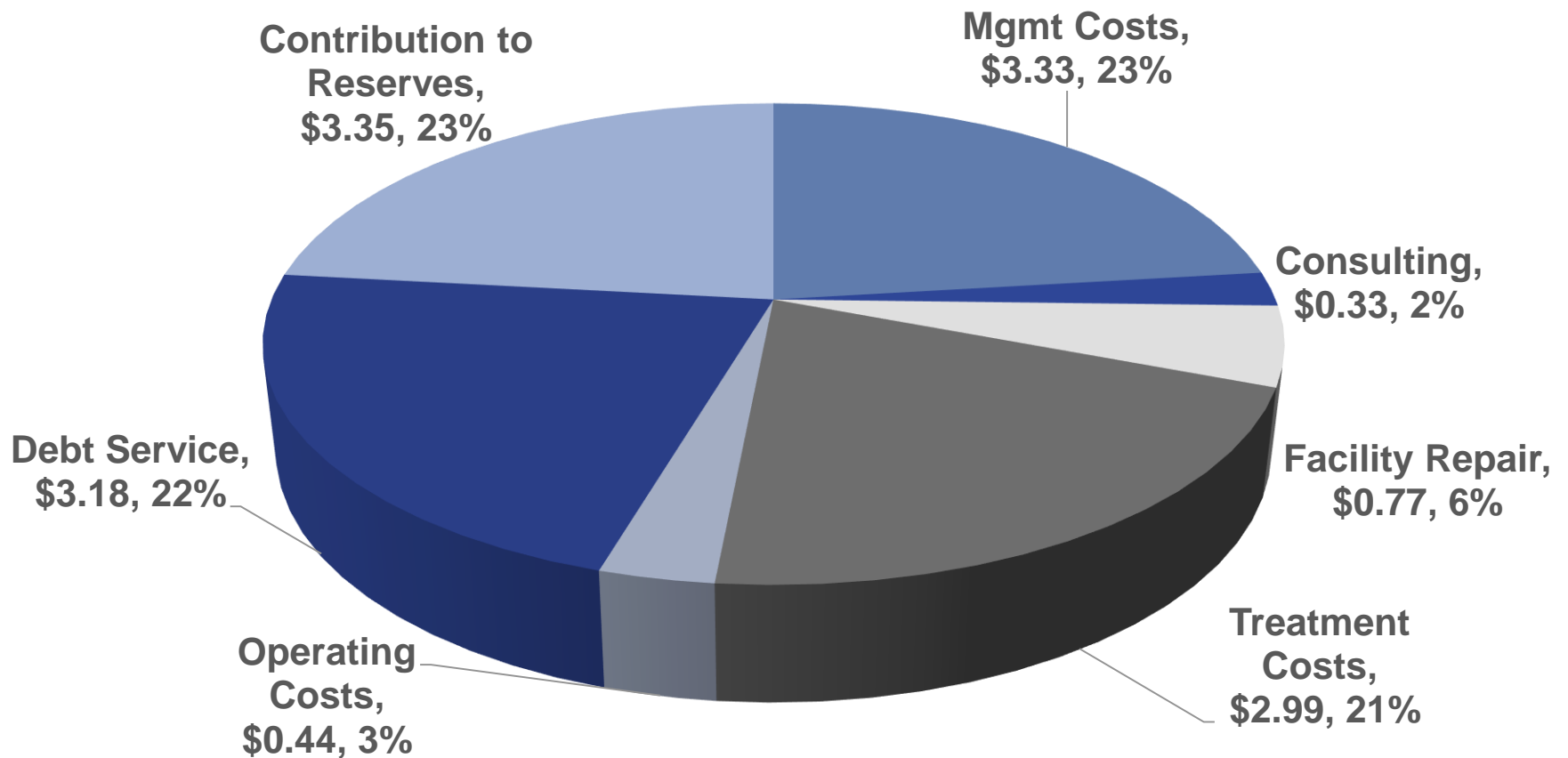
FYE 2018

Brine Line Expenses \$14.62 M

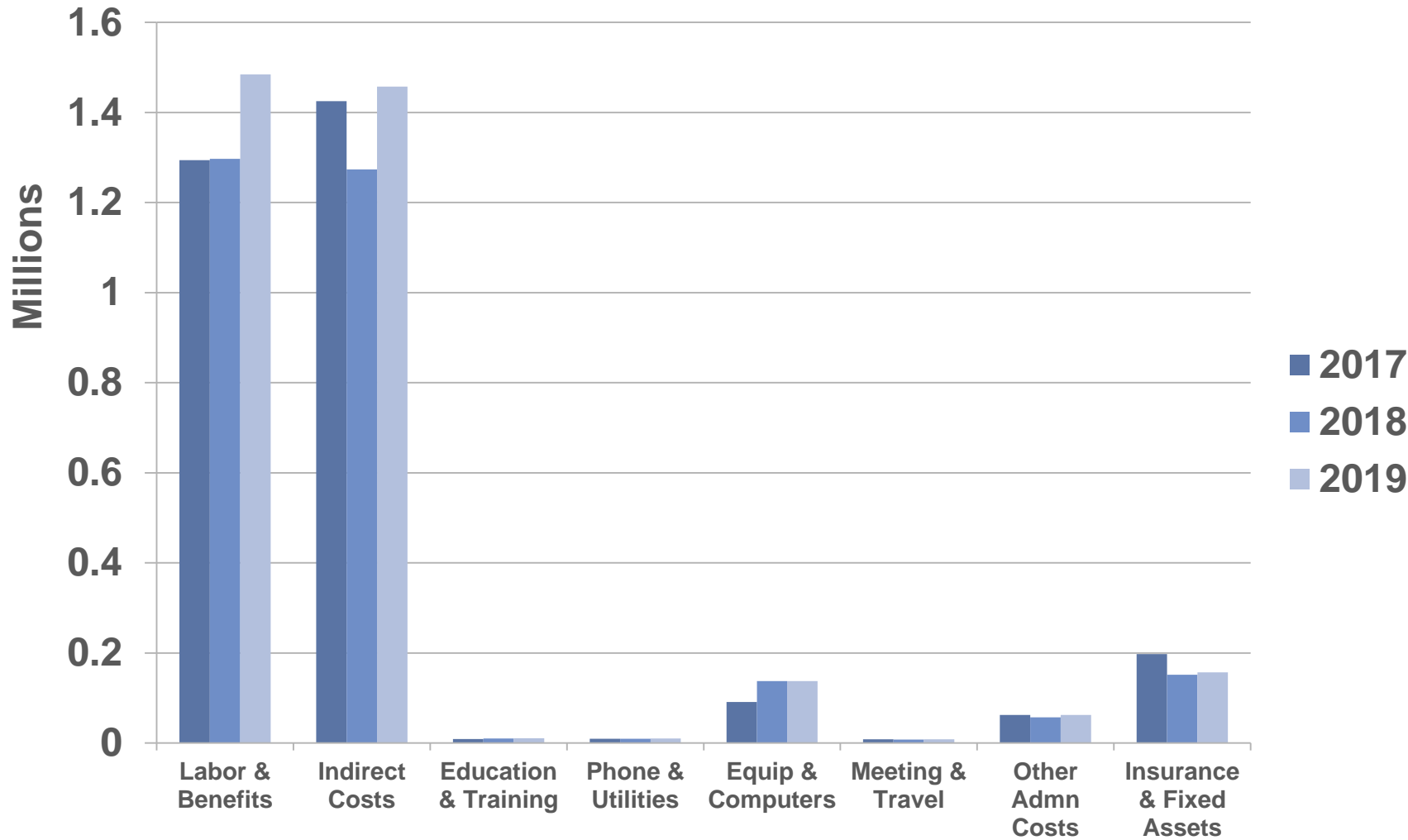


FYE 2019

Brine Line Expenses \$14.39 M

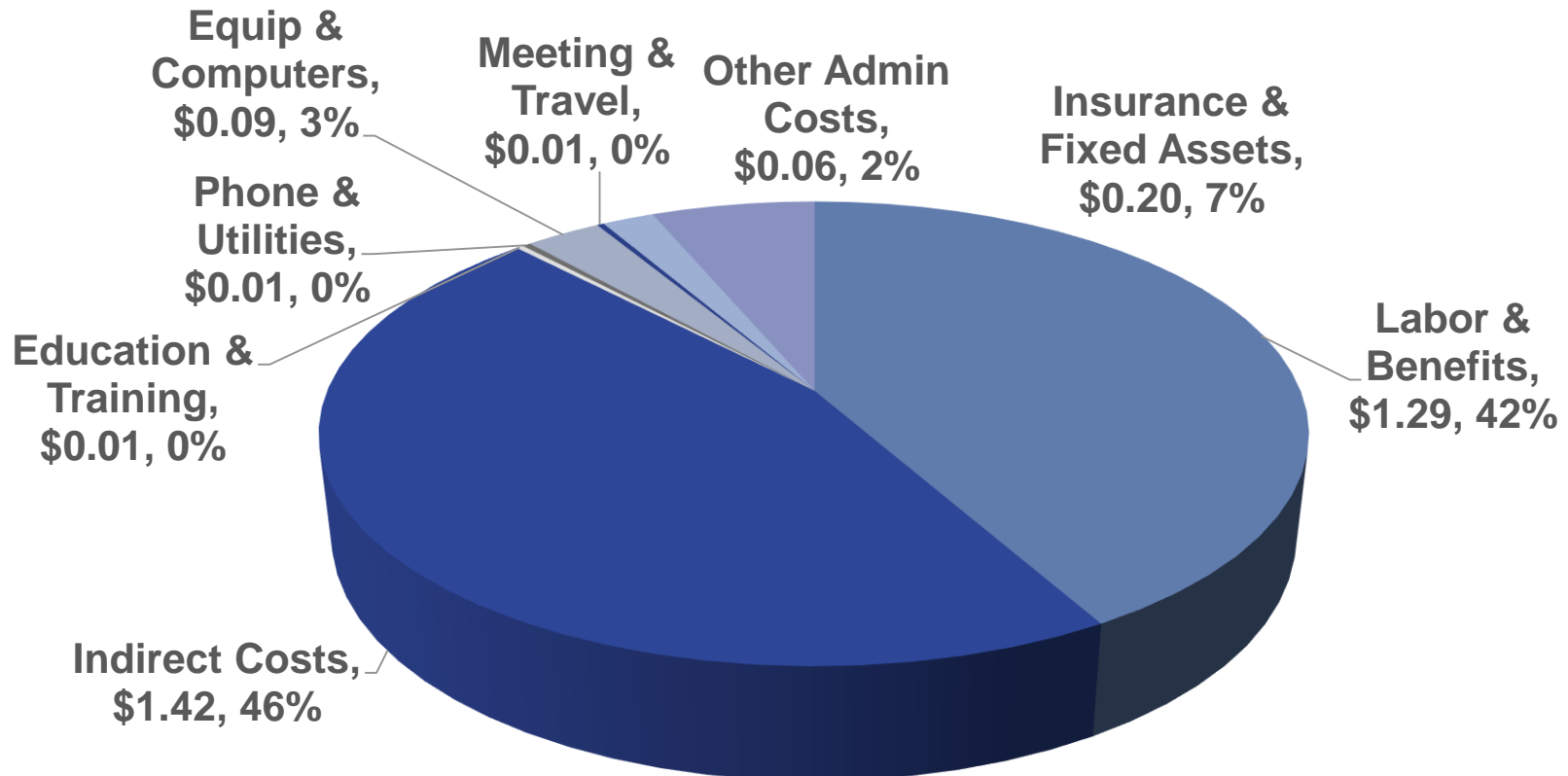


Management Costs



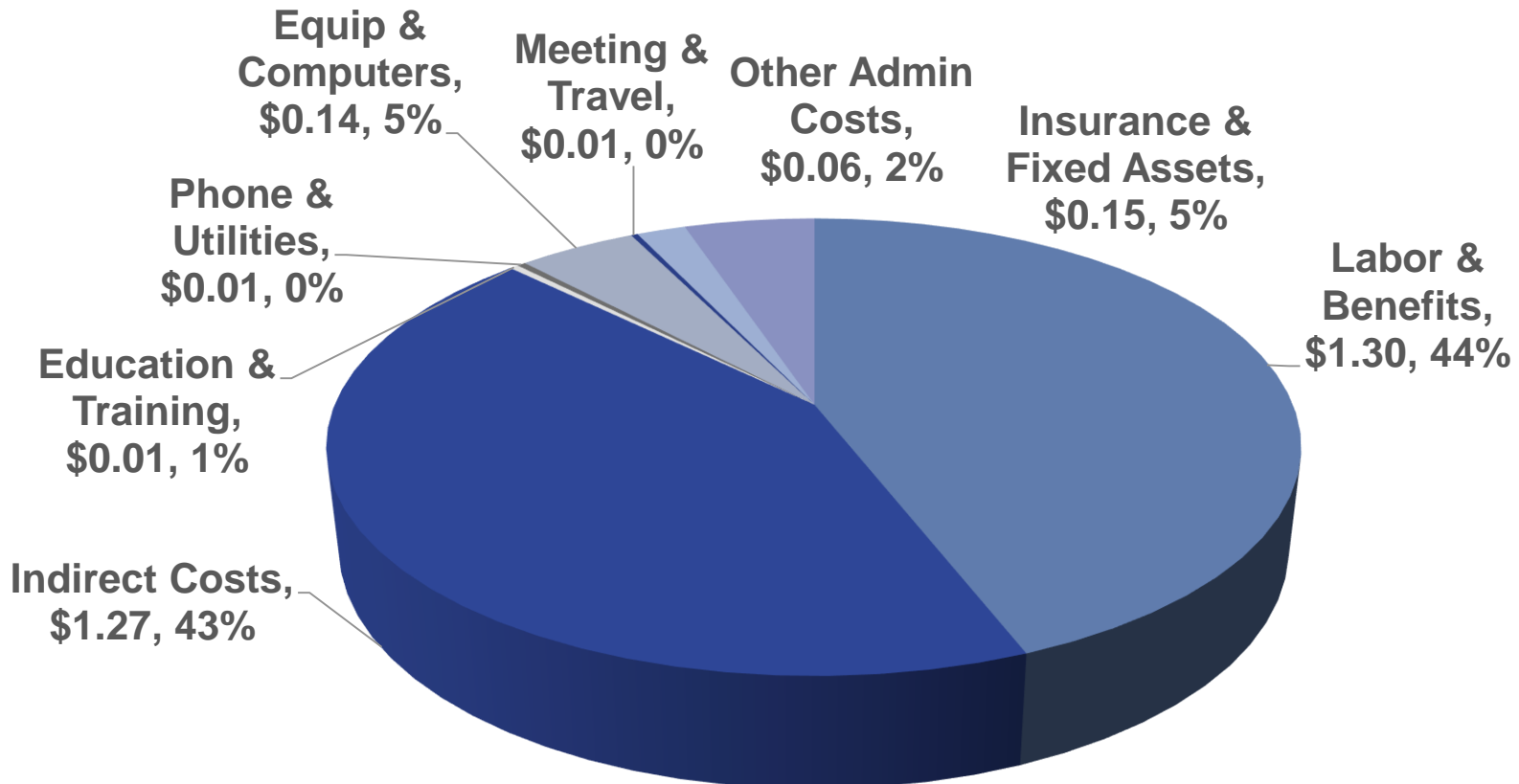
FYE 2017

Management Costs \$3.10 M



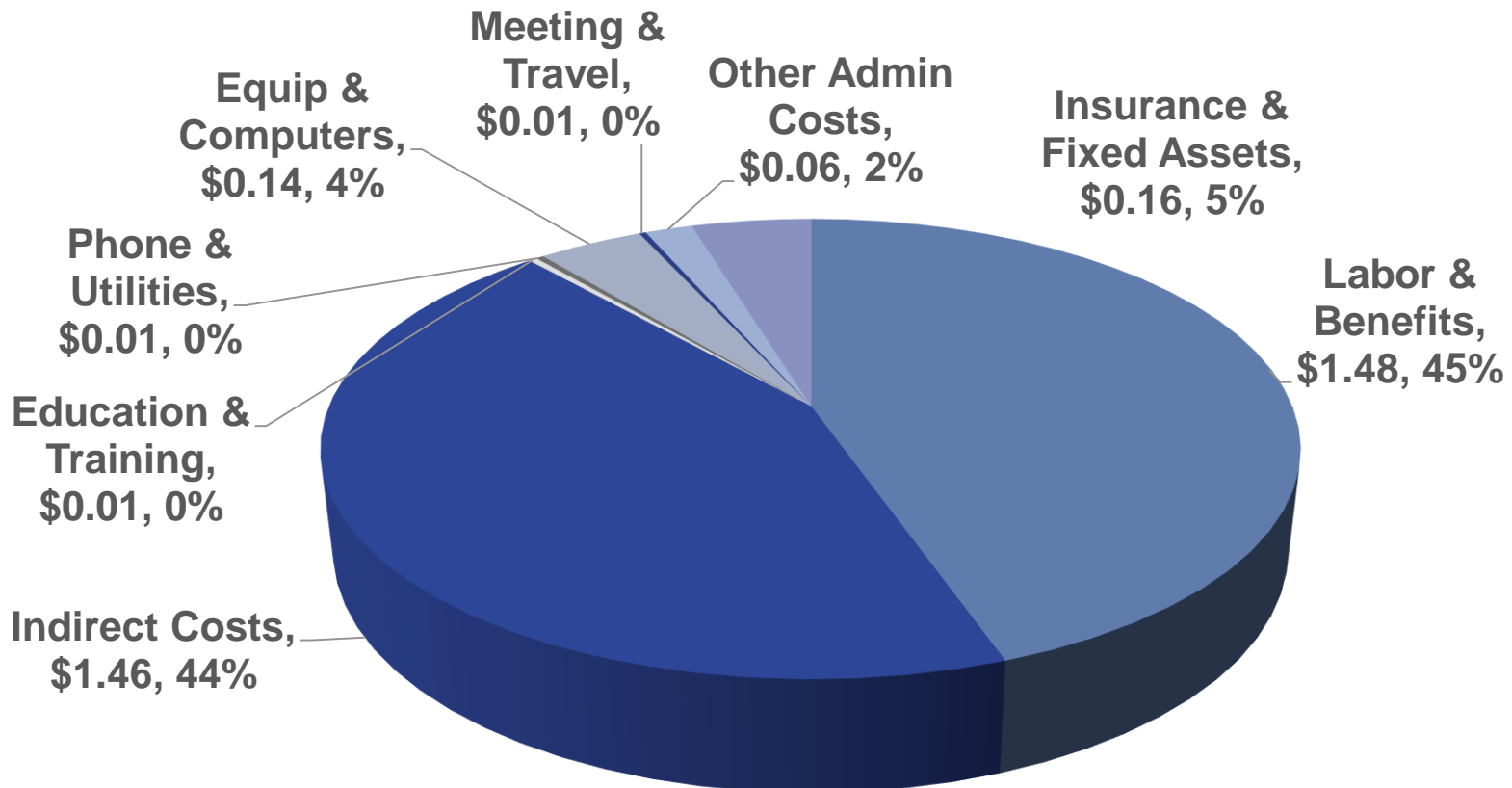
FYE 2018

Management Costs \$2.94 M

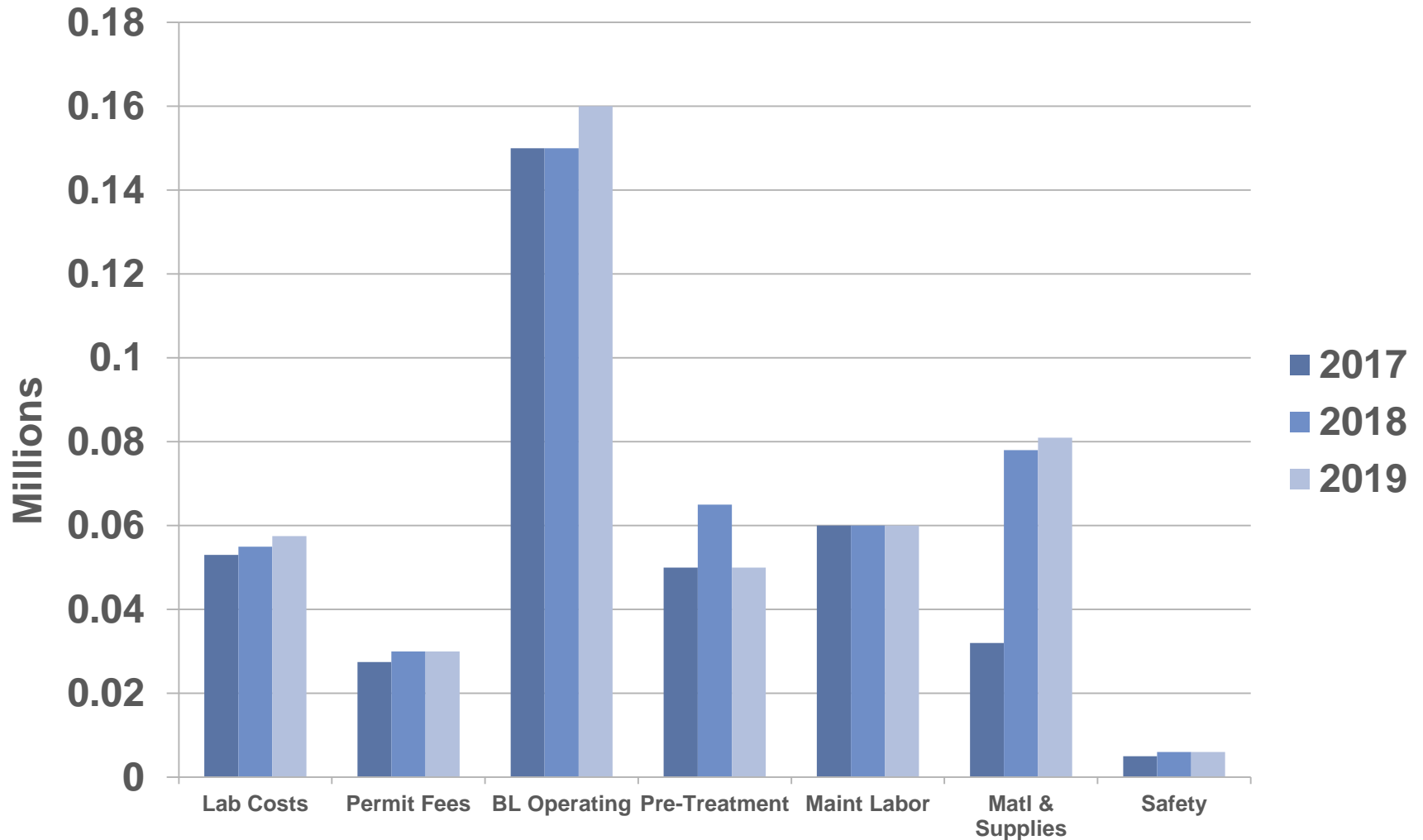


FYE 2019

Management Costs \$3.33 M

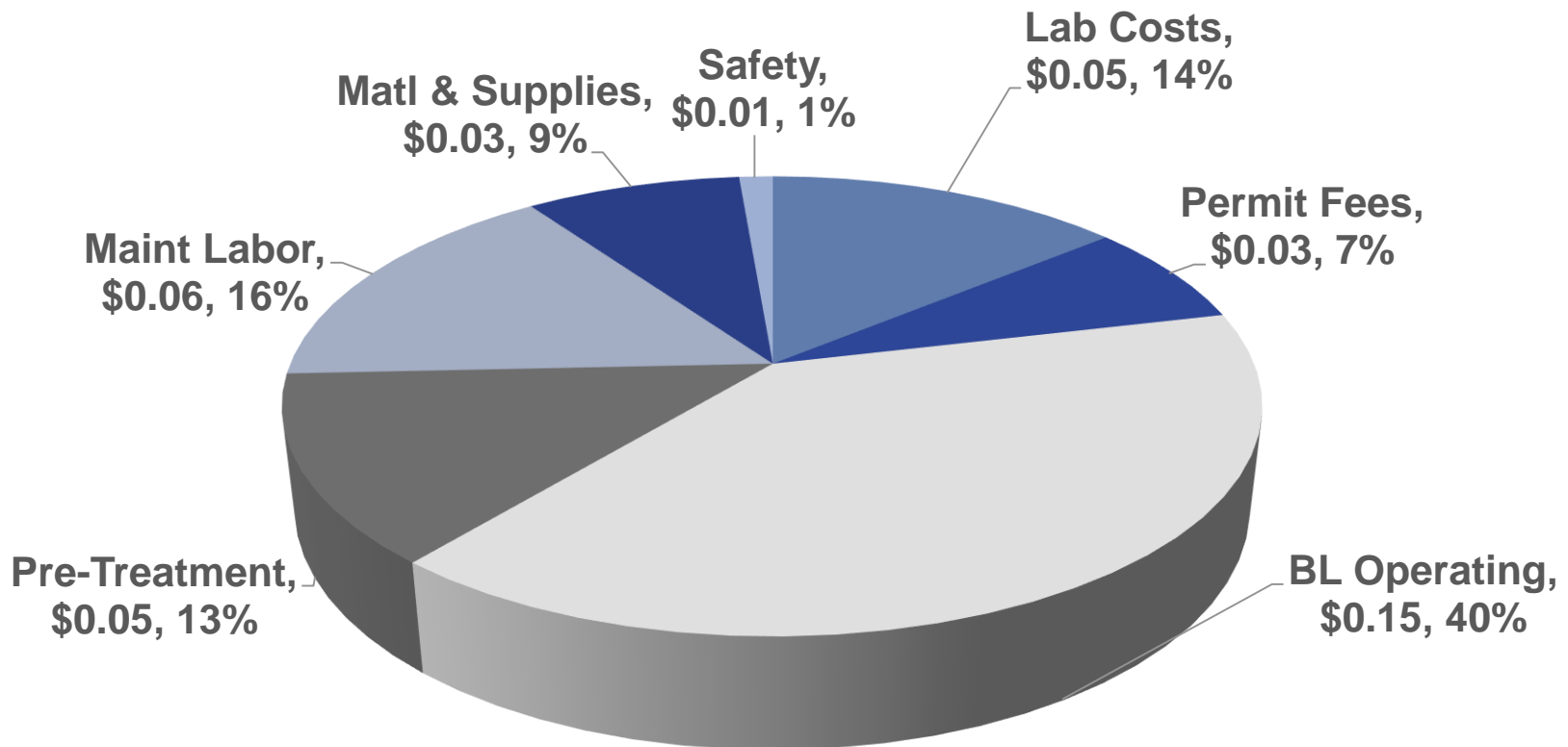


Operating Costs



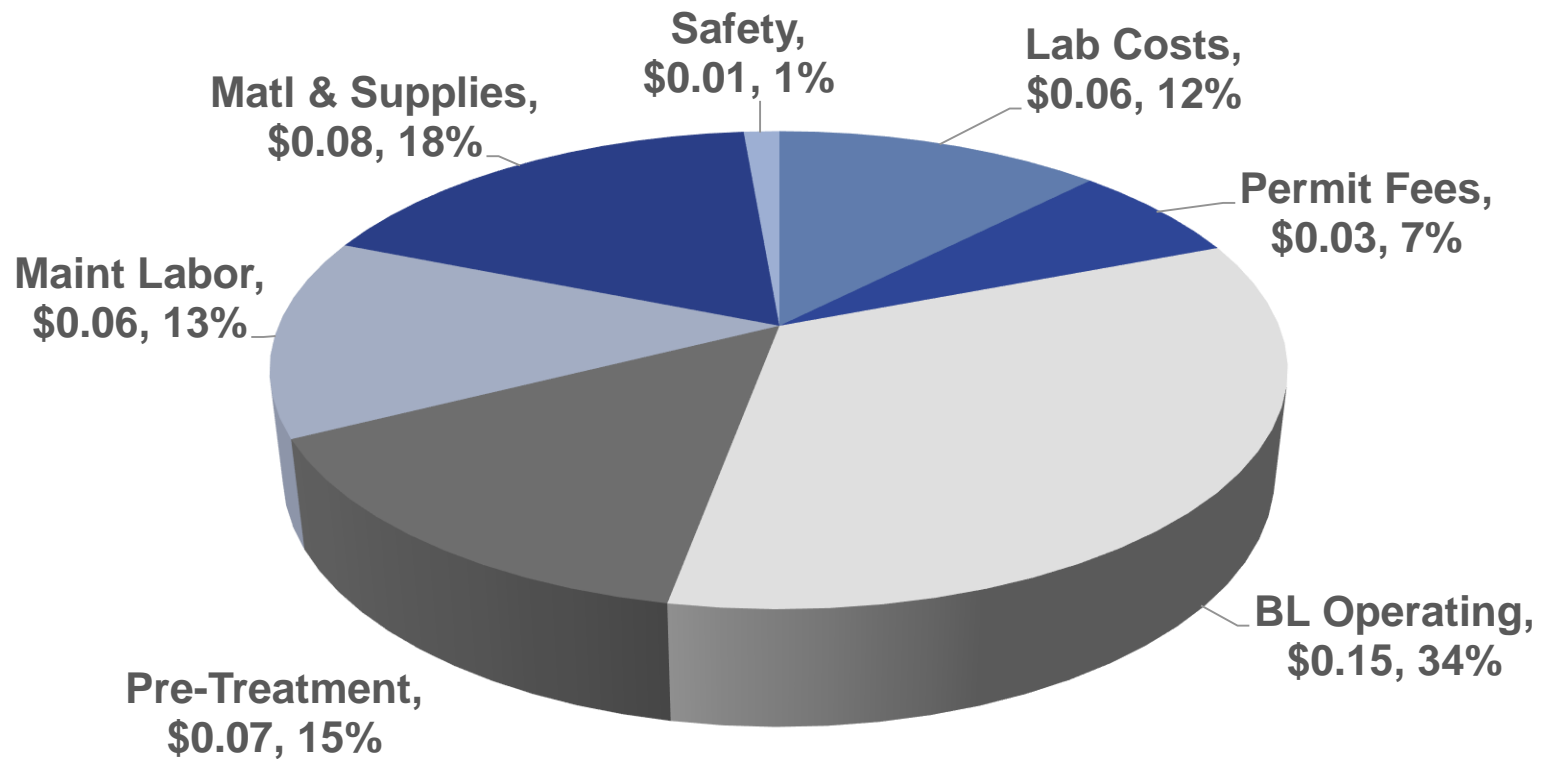
FYE 2017

Operating Costs \$0.38 M



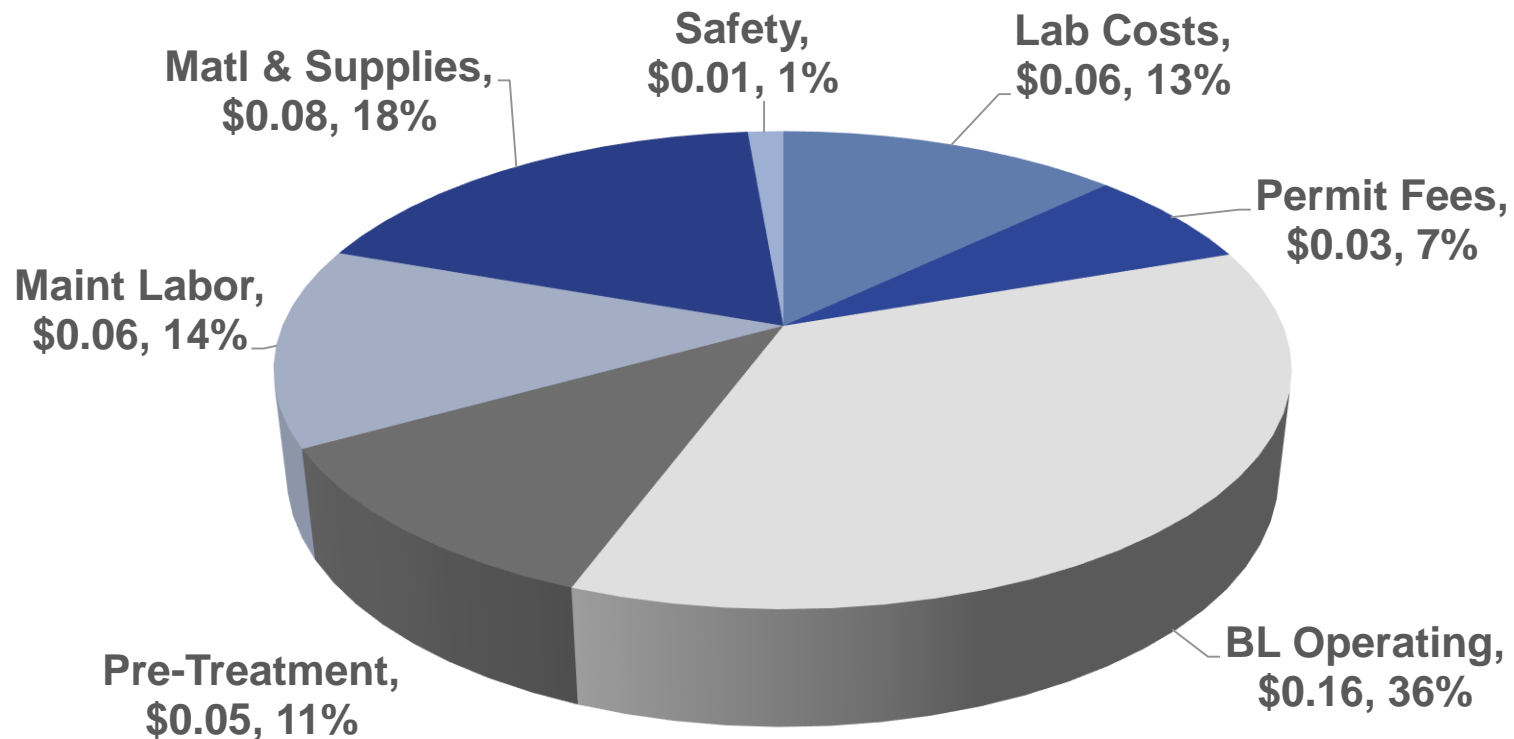
FYE 2018

Operating Costs \$0.44 M



FYE 2019

Operating Costs \$0.44 M





Debt Service Payments

Debt	FYE 2017	FYE 2018	FYE 2019
Reach V Construction – SRF Loan 1 – 4	\$1,094,147	\$1,126,278	\$1,126,578
Reach IV-A & B Capital Repair – SRF Loan	1,044,273	1,044,273	1,044,273
Reach V Capital Repair – SRF Loan	0	0	656,350
OCWD Repurchase	356,250	356,250	356,250
WRCRWA SRF Loans 1 - 3	533,918	533,918	0
Total Debt Service Payments	\$3,028,588	\$3,060,719	\$3,183,451



Debt Service Funding

Debt	Interest Rate	Final Payment	Funding Source
Reach V Construction	2.7%	10/05/21	T-Strips/Investments
Reach IV-A & B Capital Repair	2.6%	12/29/32	Rates
Reach V Capital Repair	1.9%	01/30/48	Rates
OCWD Repurchase	0%	07/01/19	T-Strips/Investments
WRCRWA	2.8%	06/01/18	T-Strips/Investments



Reserve Contributions

Fund	FYE 2017	FYE 2018	FYE 2019
Pipeline Repair/Replacement	\$1,000,000	\$1,500,000	\$1,500,000
OCSD Rehabilitation Reserve	500,000	0	0
Self Insurance Reserve	100,000	100,000	100,000
Debt Service Reserve	508,230	2,011,173	1,749,144
Total Contribution to Reserves	\$2,108,230	\$3,611,173	\$3,349,144



Reserve Transfers – FYE 2018

Fund	From	To
Pipeline Repair/Replacement	\$0	\$5,843,450
OCSD Rehabilitation Reserve	4,000,000	0
Brine Line Operating Reserve	1,843,450	0
Total Contribution to Reserves	\$5,843,450	\$5,843,450



Reserve Balance (EOY)

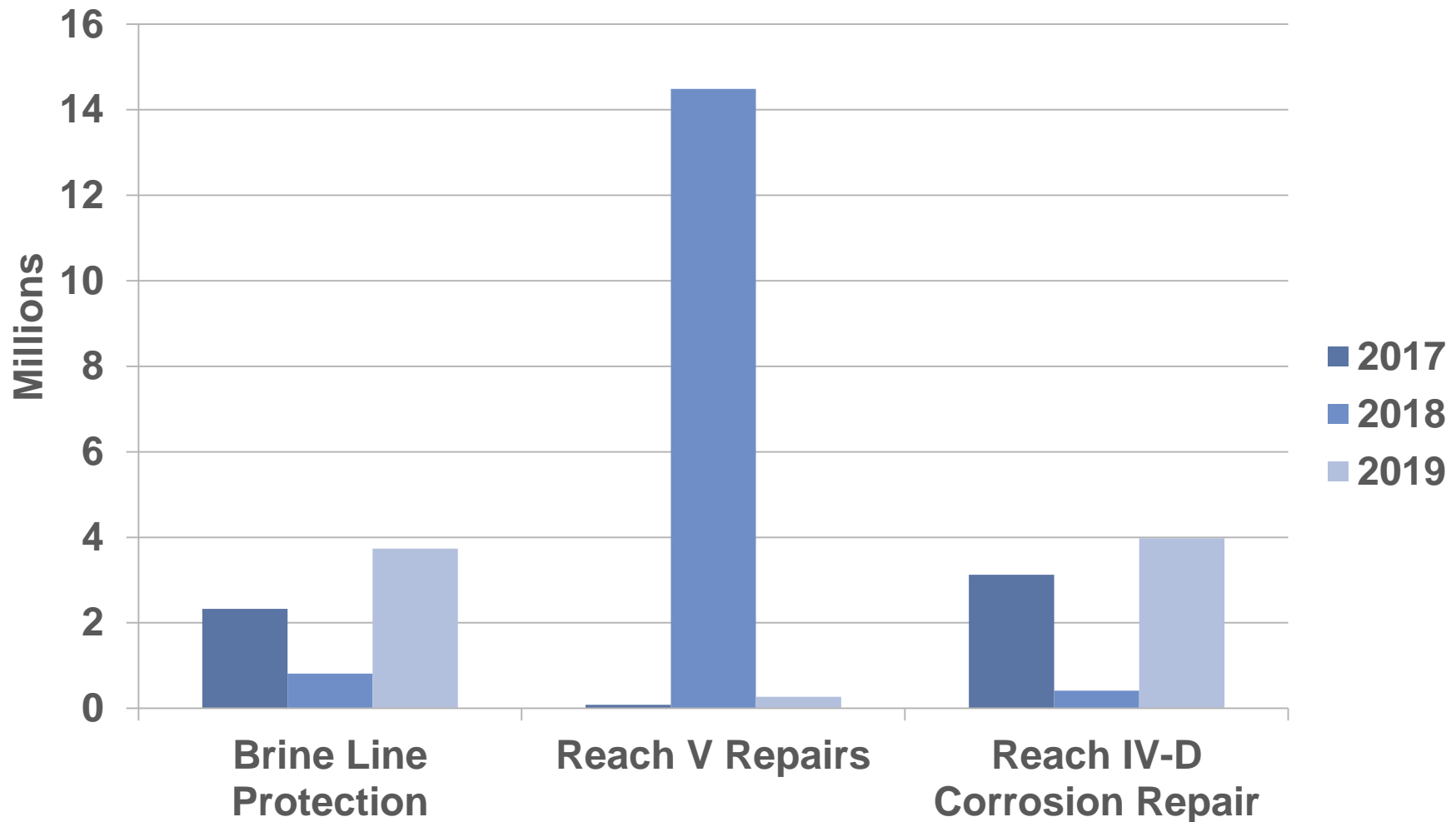
Reserve	FYE 2018	FYE 2019
Pipeline Repair/Replacement	\$13,519,815	\$13,033,783
OCSD Rehabilitation	3,491,290	491,290
OCSD Future Capacity	1,722,932	1,722,932
Self-Insurance Reserve	3,937,788	4,037,788
Flow Imbalance Reserve	83,645	83,645
Debt Service Reserve	4,649,603	2,501,741
Capacity Management	7,815,546	7,815,546
Operating Reserve	2,000,000	2,000,000
Total Reserves	\$37,220,618	\$31,686,725



Proposed Brine Line Rates

Component	Actual FYE 2017	FYE 2018	FYE 2019
Flow	\$858 ^{+5%} →	\$901 ^{+5%} →	\$946
BOD (per 1,000 lbs.)	\$307 ^{+5%} →	\$322 ^{+5%} →	\$330
TSS (per 1,000 lbs.)	\$429 ^{+5%} →	\$450 ^{+5%} →	\$462
Fixed Pipeline	\$5,639 ^{+5%} →	\$5,921 ^{+5%} →	\$6,217
Fixed Treatment	\$11,433 ^{+5%} →	\$12,007 ^{+5%} →	\$12,607

Capital Improvement Projects





Brine Line Protection

Reach V Repairs

Reach IV-D Corrosion Repair

Reserves

SRF Loan

SRF Loan

Reserves

Reserves



Capital Project Funding – FYE 2018

Project	Reserves	SRF Loan	Total
Brine Line Protection	\$812,572	\$0	\$812,572
Reach V Repairs	6,987,574	7,500,000	14,487,574
Reach IV-D Corrosion Repairs	414,386	0	414,386
Total	\$8,214,532	\$7,500,000	\$15,714,532



Capital Project Funding – FYE 2019

Project	Reserves	SRF Loan	Total
Brine Line Protection	\$3,736,548	\$0	\$3,736,548
Reach V Repairs	269,167	0	269,167
Reach IV-D Corrosion Repairs	980,317	3,000,000	4,986,032
Total	\$4,986,032	\$3,000,000	\$7,986,032



Brine Line Statistics

Project	FYE 2018	FYE 2019
Staff Hours for Operations & Capital	20,726	20,765
Full Time Equivalentents (FTE)	10	10
% of Indirect Costs paid	54.44%	55.14%
Total of Indirect Costs paid	\$1,606,248	\$1,721,340

A close-up photograph of a silver fountain pen nib resting on a document. The document features a line graph with a blue line and some text, including the word 'WATER' and months like 'Feb.', 'Apr.', and 'Jun.'. The background is a gradient of blue.

OWOW Fund Budget

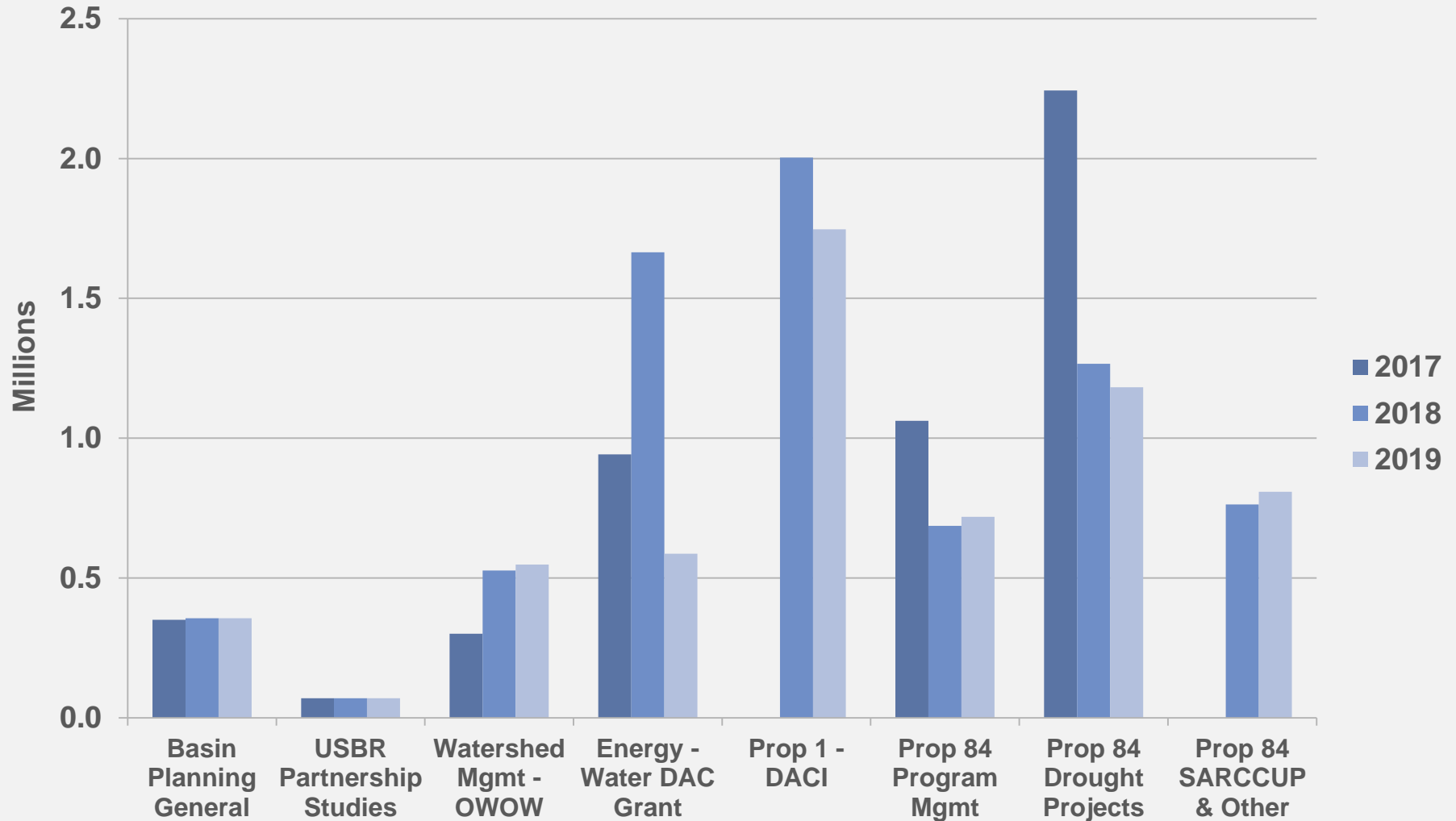




OWOW Fund

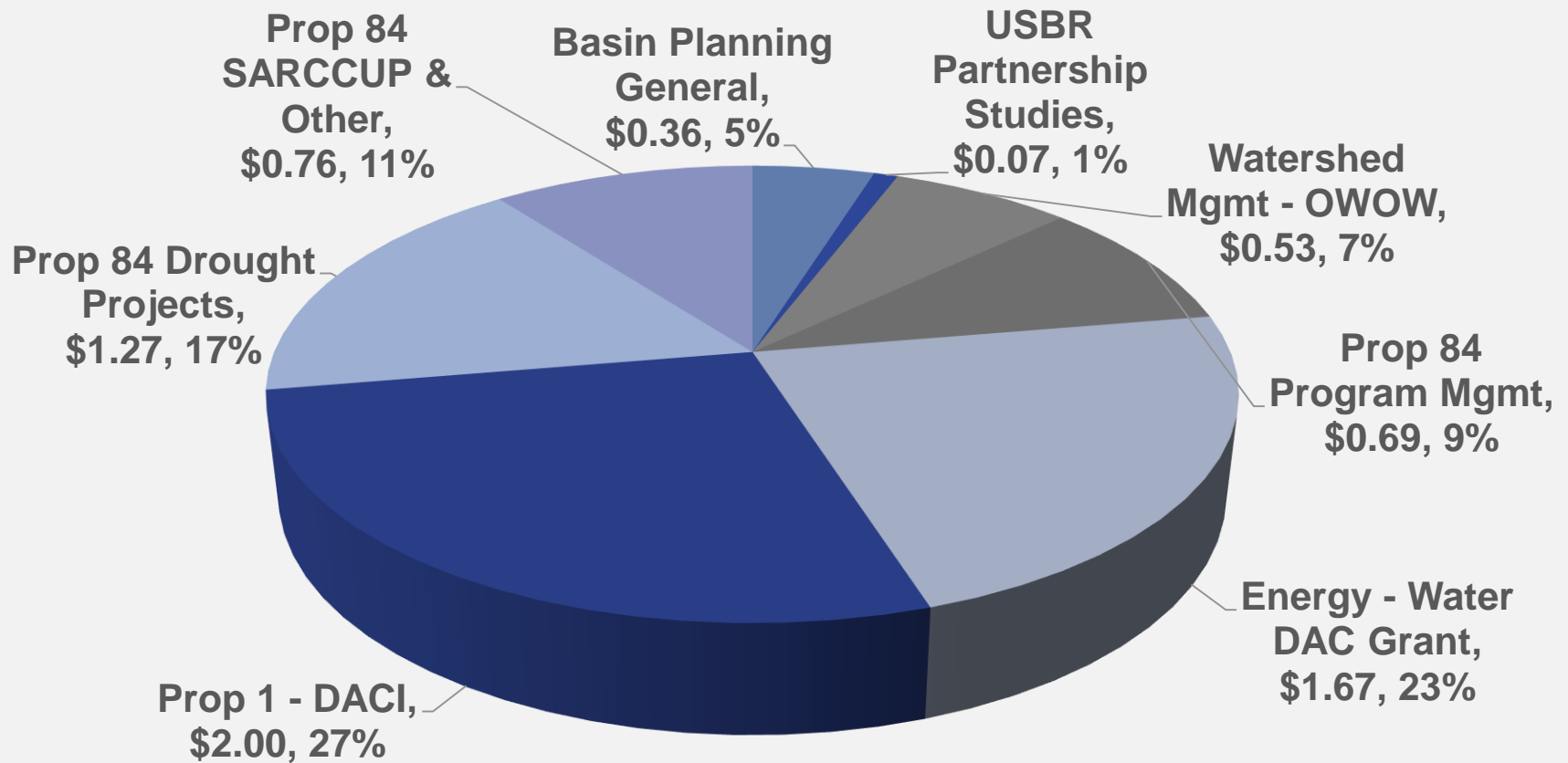
Fund Number	Fund Title
370-01	Basin Planning General
370-02	USBR Partnership Studies
373	Watershed Management - OWOW
130 – 145	Prop 84 Program Management (All Rounds)
397	Energy – Water DAC Grant Project
398	Proposition 1 - DACI
504	Prop 84 Round I & II Capital Projects (Passthrough)
504-00	Prop 84 Drought Capital Projects
504-04	Prop 84 SARCCUP & Other Projects

OWOW Funds - Revenues



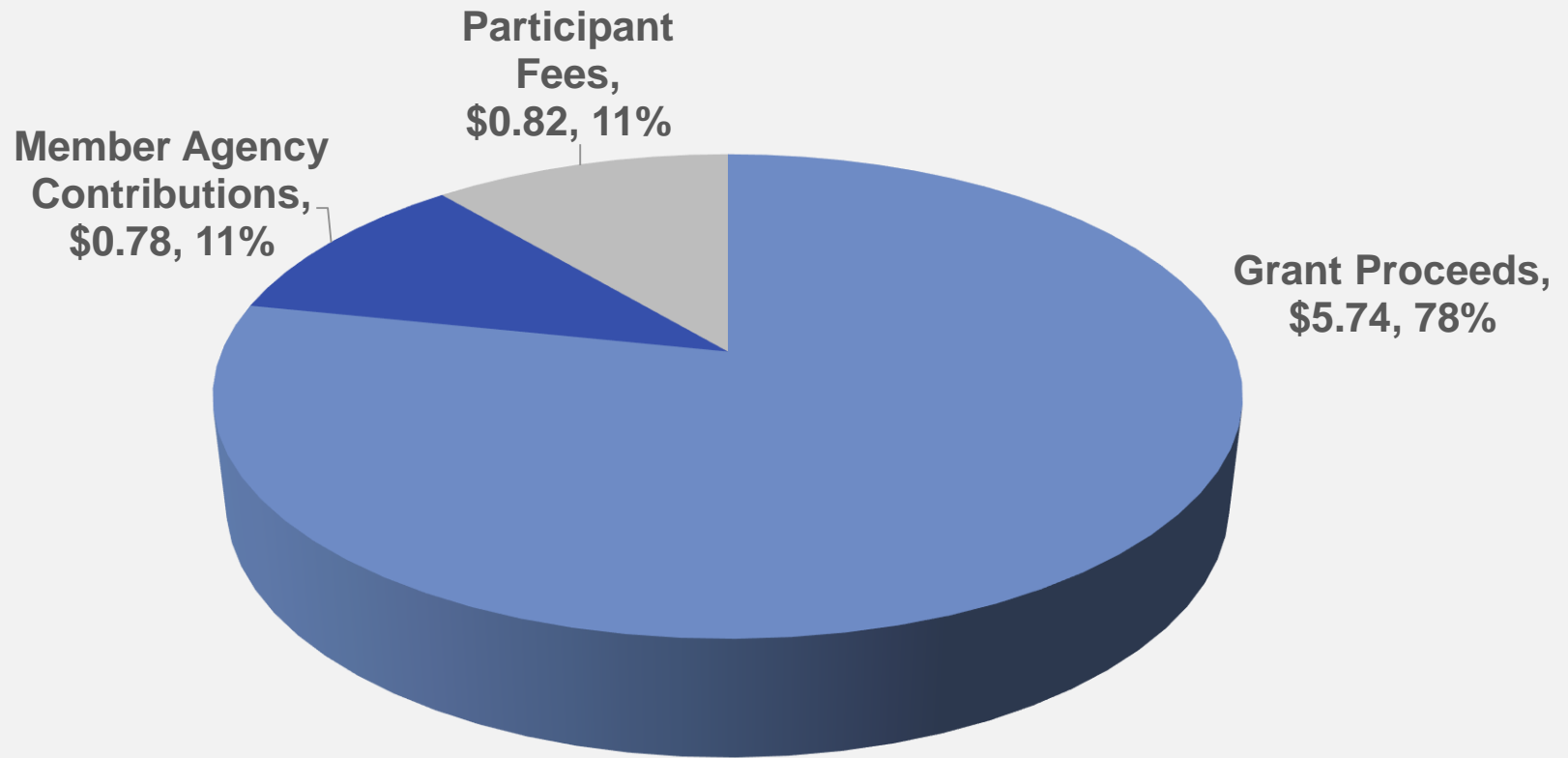
FYE 2018

Revenues \$7.34 M



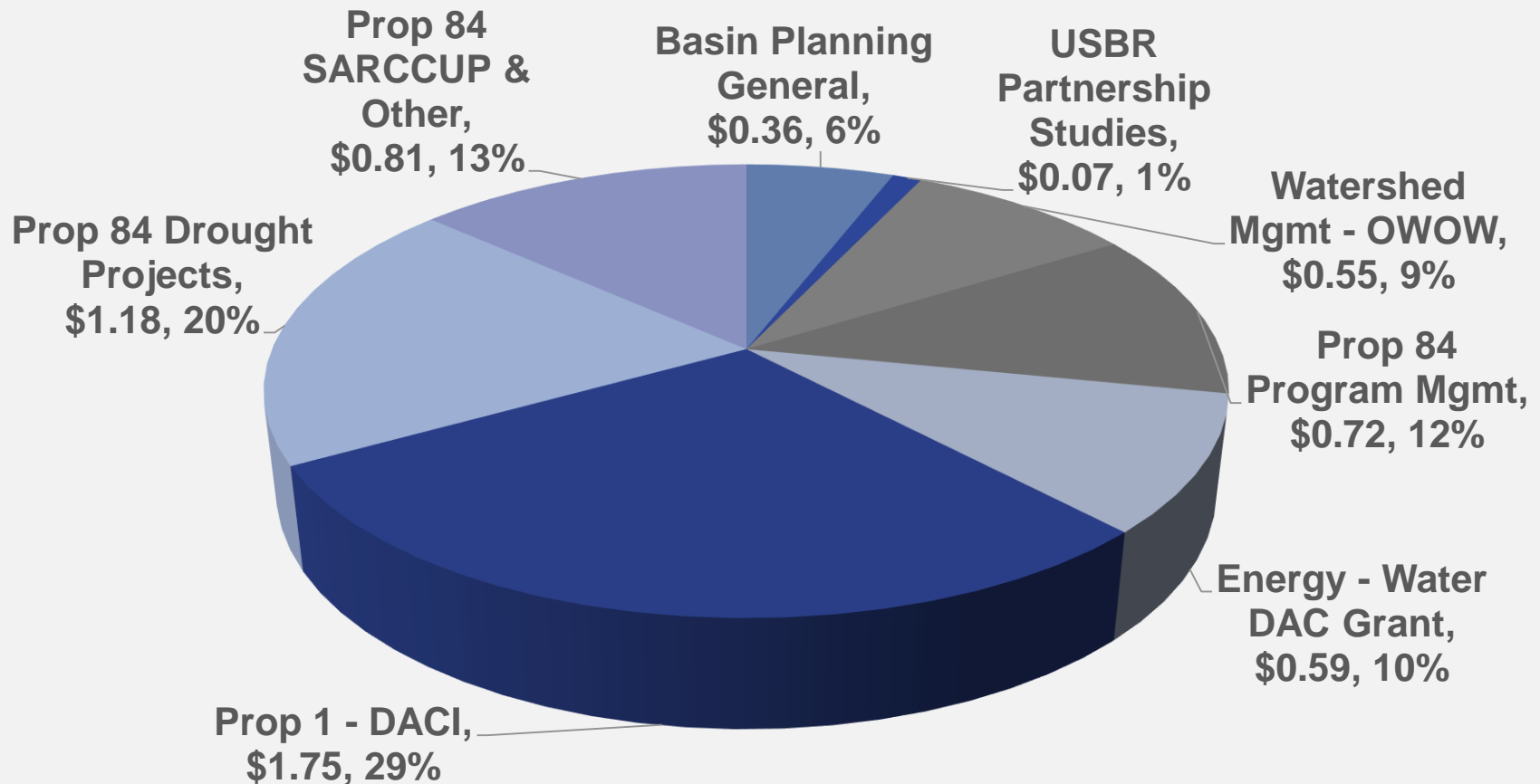
FYE 2018

Revenues \$7.34 M



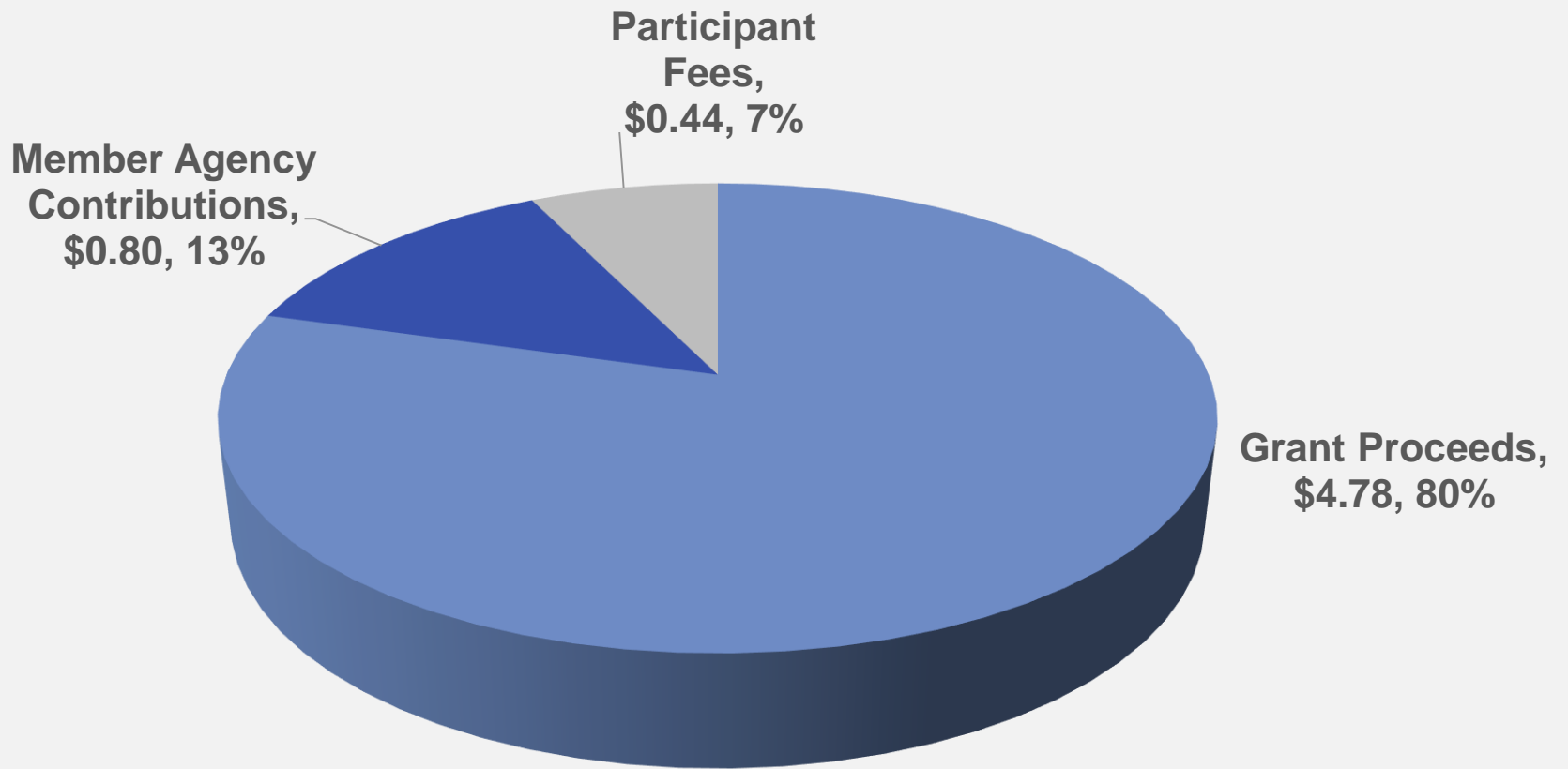
FYE 2019

Revenues \$6.02 M



FYE 2019

Revenues \$6.02 M





Member Agency Contributions

Fund	FYE 2017	FYE 2018	FYE 2019
Basin Planning General	\$350,000	\$356,000	\$356,000
USBR Partnership Studies	20,000	20,000	20,000
Watershed Management - OWOW	300,000	400,000	425,000
Total	\$670,000	\$776,000	\$801,000



Grant Proceeds

Fund	FYE 2017	FYE 2018	FYE 2019
USBR Partnership Studies	\$50,000	\$50,000	\$50,000
Watershed Management - OWOW	0	127,000	123,000
Prop 84 Program Management (all rounds)	1,062,225	686,522	718,154
Energy – Water DAC Grant Project	941,539	1,300,000	586,816
Proposition 1 – DACI	0	2,003,206	1,747,121
Prop 84 Drought Capital Projects	2,243,172	1,265,683	1,182,042
Prop 84 SARCCUP & Other Projects	0	308,885	370,123
Total	\$4,296,936	\$5,741,297	\$4,777,256



Participant Fees

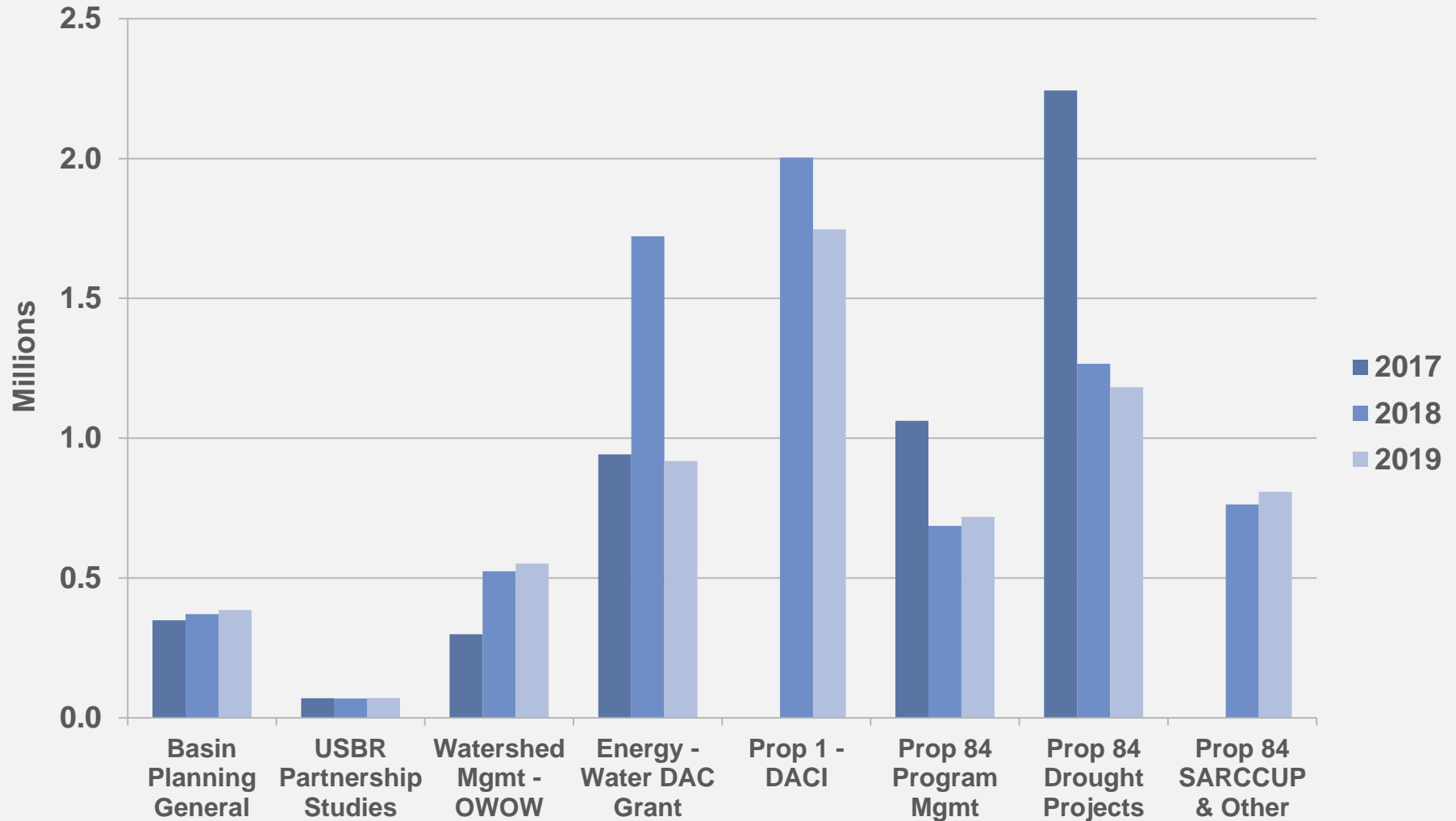
Fund	FYE 2017	FYE 2018	FYE 2019
Energy – Water DAC Grant Project	\$0	\$365,000	\$0
Prop 84 SARCCUP & Other Projects	0	453,612	437,722
Total	\$0	\$818,612	\$437,722



Prop 84 Projects (passthrough)

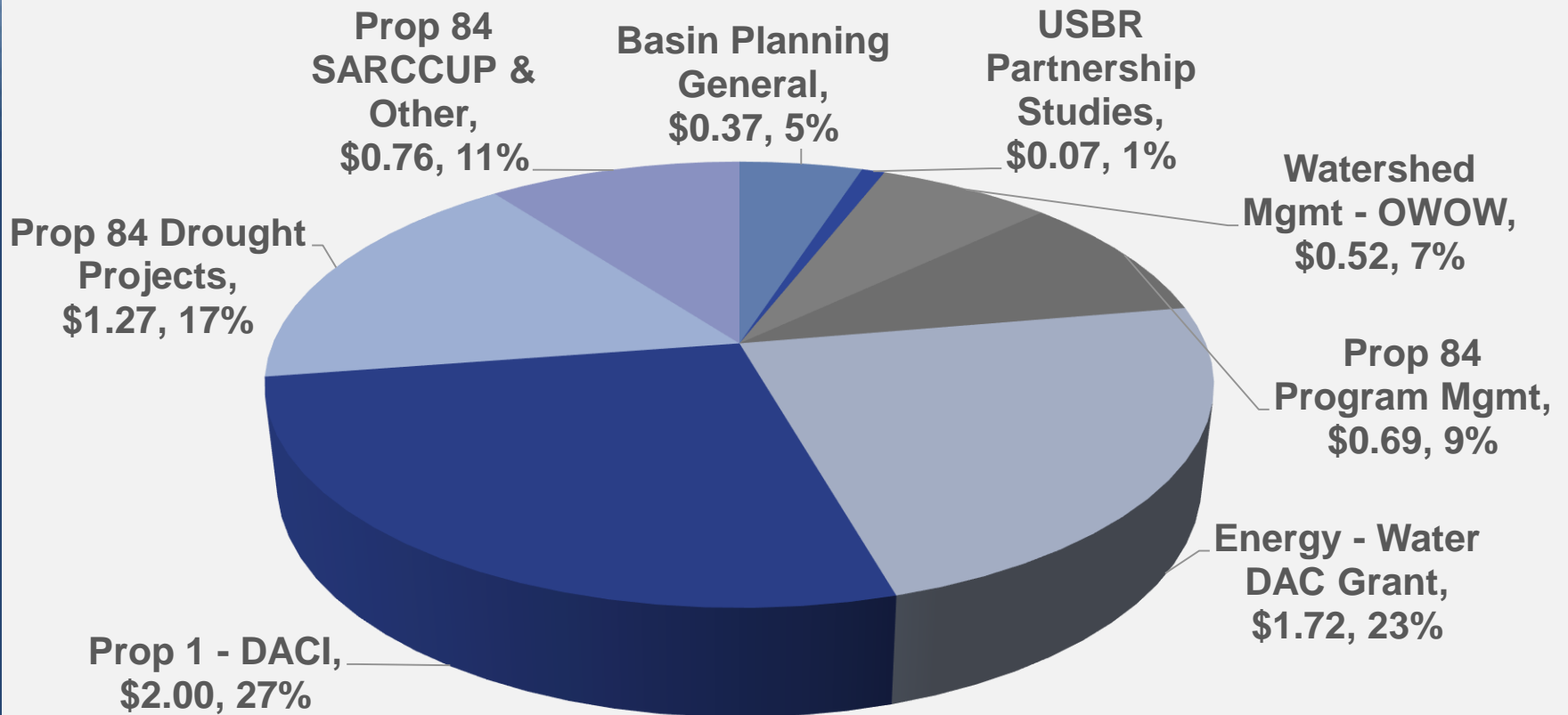
Fund	FYE 2017	FYE 2018	FYE 2019
Prop 84 Projects – Round I	\$750,000	\$750,000	\$0
Prop 84 Projects – Round II	4,008,806	6,780,247	2,075,000
Prop 84 Project – Drought Round	1,622,500	4,133,341	100,000
Prop 84 – Final Round (SARCCUP)	0	9,416,637	10,612,335
Total	\$6,381,306	\$21,080,225	\$12,787,335

OWOW Fund - Expenses



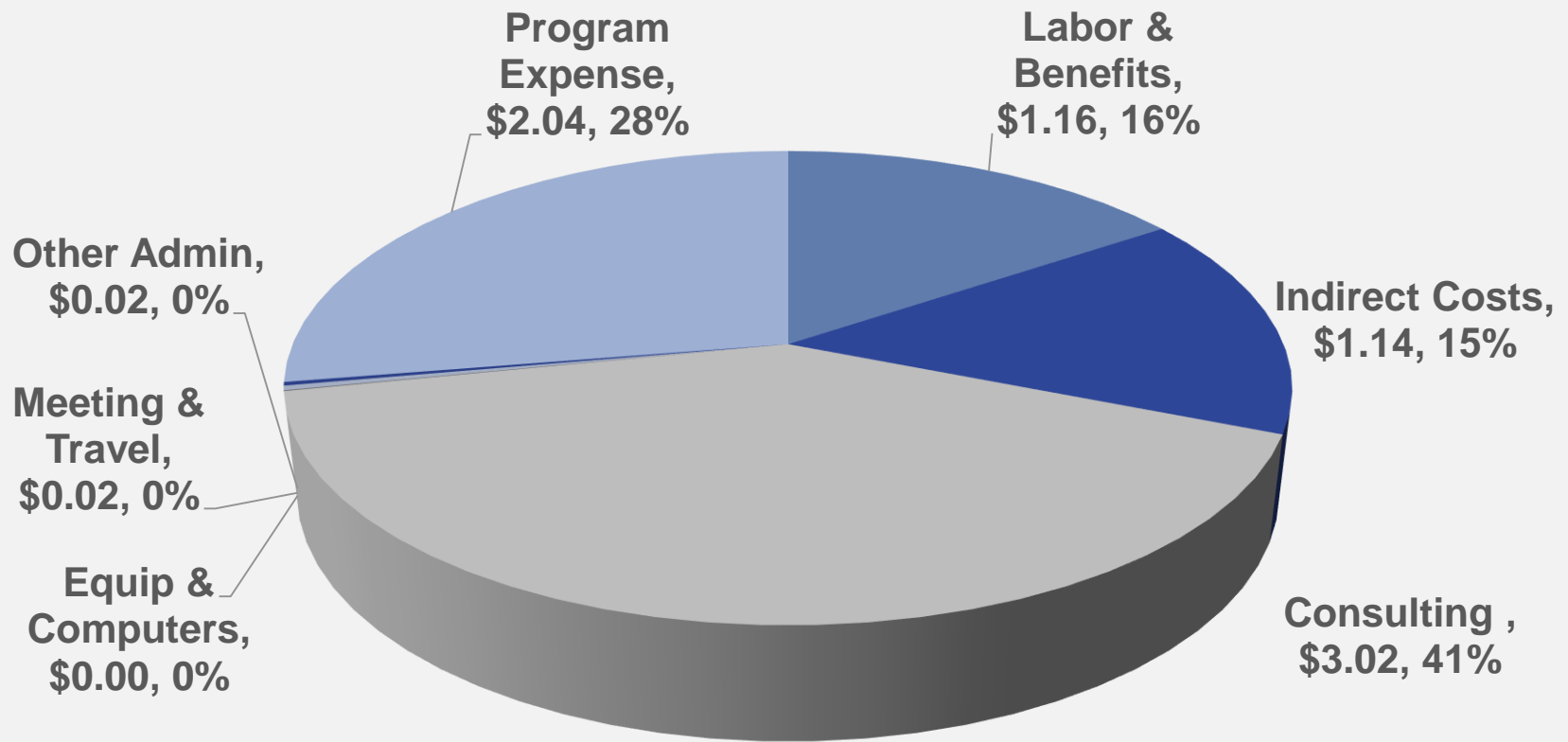
FYE 2018

Expenses \$7.40 M



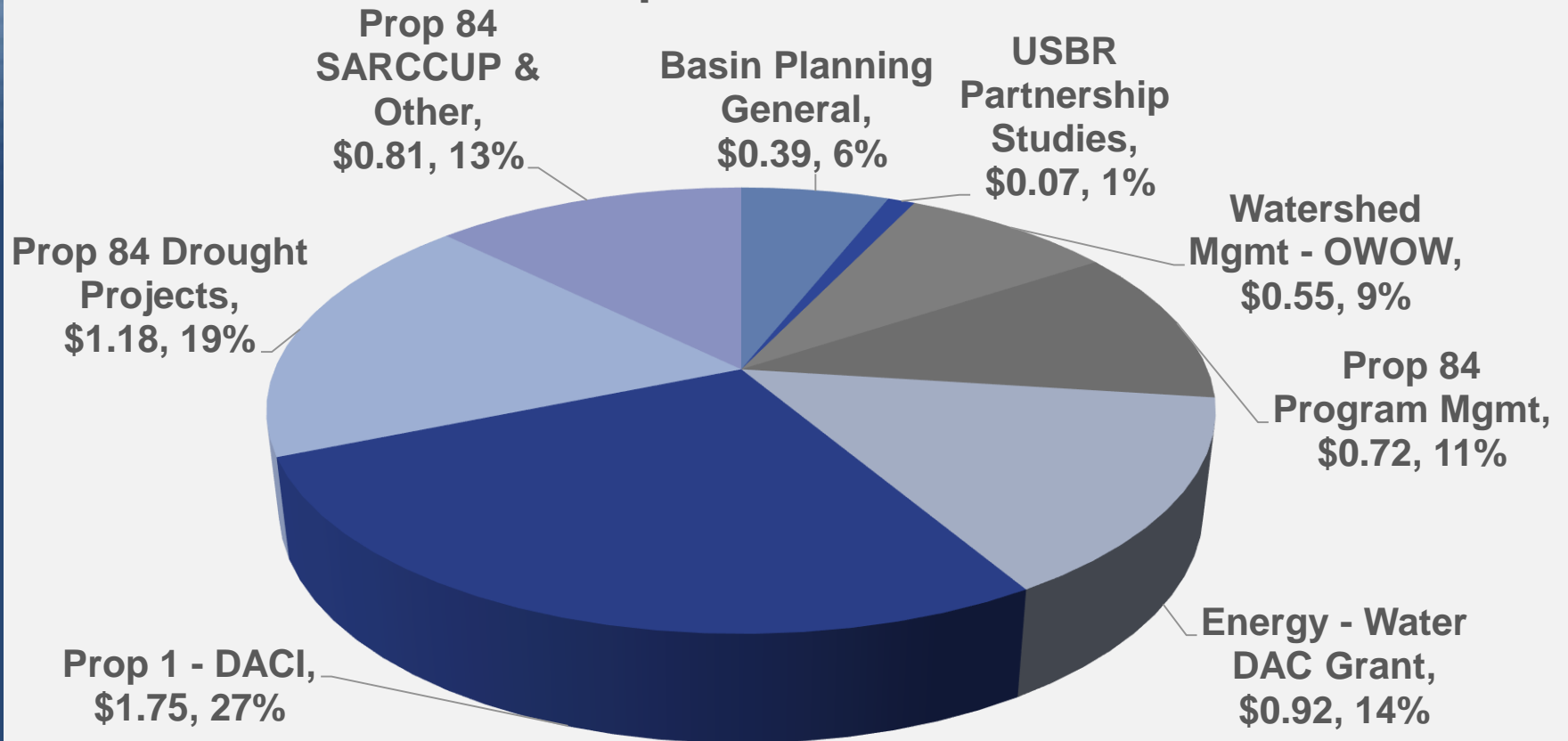
FYE 2018

Expenses \$7.40 M



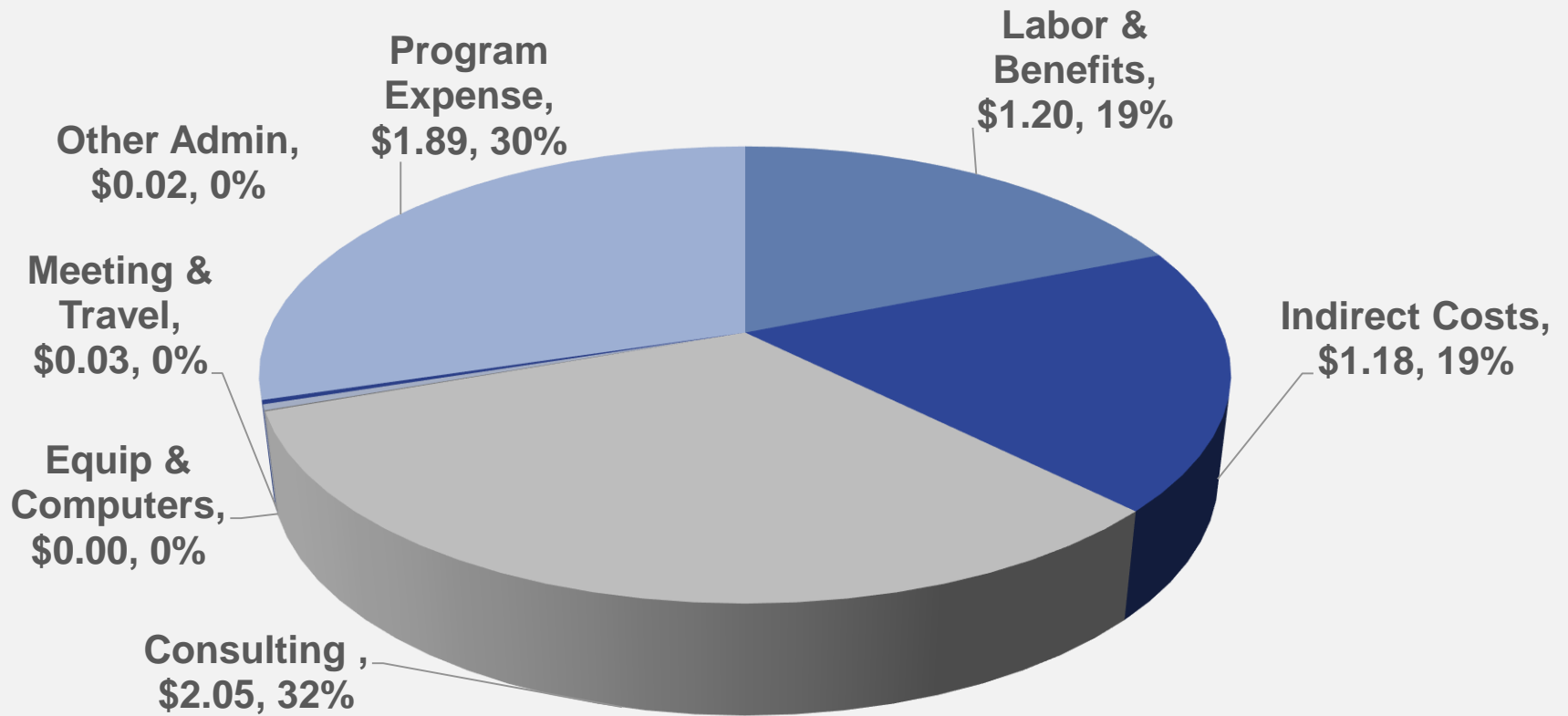
FYE 2019

Expenses \$6.38 M



FYE 2019

Expenses \$6.38 M





Expenses

Fund	FYE 2017	FYE 2018	FYE 2019
Basin Planning General	\$348,350	\$371,009	\$385,131
USBR Partnership Studies	69,853	69,178	70,365
Watershed Management – OWOW	298,725	523,362	551,346
Prop 84 Program Management (all rounds)	1,062,225	686,522	718,154
Energy – Water DAC Grant Project	941,539	1,721,860	918,104
Proposition 1 – DACI	0	2,003,206	1,747,121
Prop 84 Drought Capital Projects	2,243,172	1,265,683	1,182,042
Prop 84 SARCCUP & Other Projects	0	762,496	807,844
Total	\$4,963,864	\$7,403,317	\$6,380,106



Fund Balance FYE 2018

Fund	Projected Fund Balance 06/30/17	Revenues	Expenses	Fund Balance 06/30/18
Basin Planning General	\$45,039	\$356,000	\$371,009	\$30,029
USBR Partnership Studies	22,817	70,000	69,178	23,639
Watershed Management - OWOW	1,060	527,000	523,362	4,698
Prop 84 Program Management (all)	0	686,522	686,522	0
Energy – Water DAC Grant Project	388,341	1,665,000	1,721,860	331,481
Proposition 1 - DACI	0	2,003,206	2,003,206	0
Prop 84 Drought Capital Projects	0	1,265,683	1,265,683	0
Prop 84 SARCCUP & Other Projects	0	762,496	762,496	0
Total	\$457,257	\$7,335,908	\$7,403,317	\$389,847



Fund Balance FYE 2019

Fund	Projected Fund Balance 06/30/18	Revenues	Expenses	Fund Balance 06/30/19
Basin Planning General	\$30,029	\$356,000	\$385,131	\$898
USBR Partnership Studies	23,639	70,000	70,365	23,274
Watershed Management - OWOW	4,698	548,000	551,346	1,352
Prop 84 Program Management (all)	0	718,154	718,154	0
Energy – Water DAC Grant Project	331,481	586,816	918,104	193
Proposition 1 – DACI	0	1,747,121	1,747,121	0
Prop 84 Drought Capital Projects	0	1,182,042	1,182,042	0
Prop 84 SARCCUP & Other Projects	0	807,844	807,844	0
Total	\$389,847	\$6,015,977	\$6,380,106	\$25,718



Indirect Cost Allocation - OWOW

Fund	FYE 2018	FYE 2019
Basin Planning General	\$175,783	\$182,757
USBR Partnership Studies	9,402	9,989
Watershed Management - OWOW	208,428	222,265
Prop 84 Program Management (All Rounds)	340,124	355,751
Energy – Water DAC Grant Project	28,011	28,020
Proposition 1 - DACI	137,902	154,036
Prop 84 Drought Capital Projects	154,453	115,478
Prop 84 SARCCUP & Other Projects	82,496	114,557
Total	\$1,136,600	\$1,182,852
% of Total Indirect Costs	38.52%	37.89%



Roundtables Funds Budget



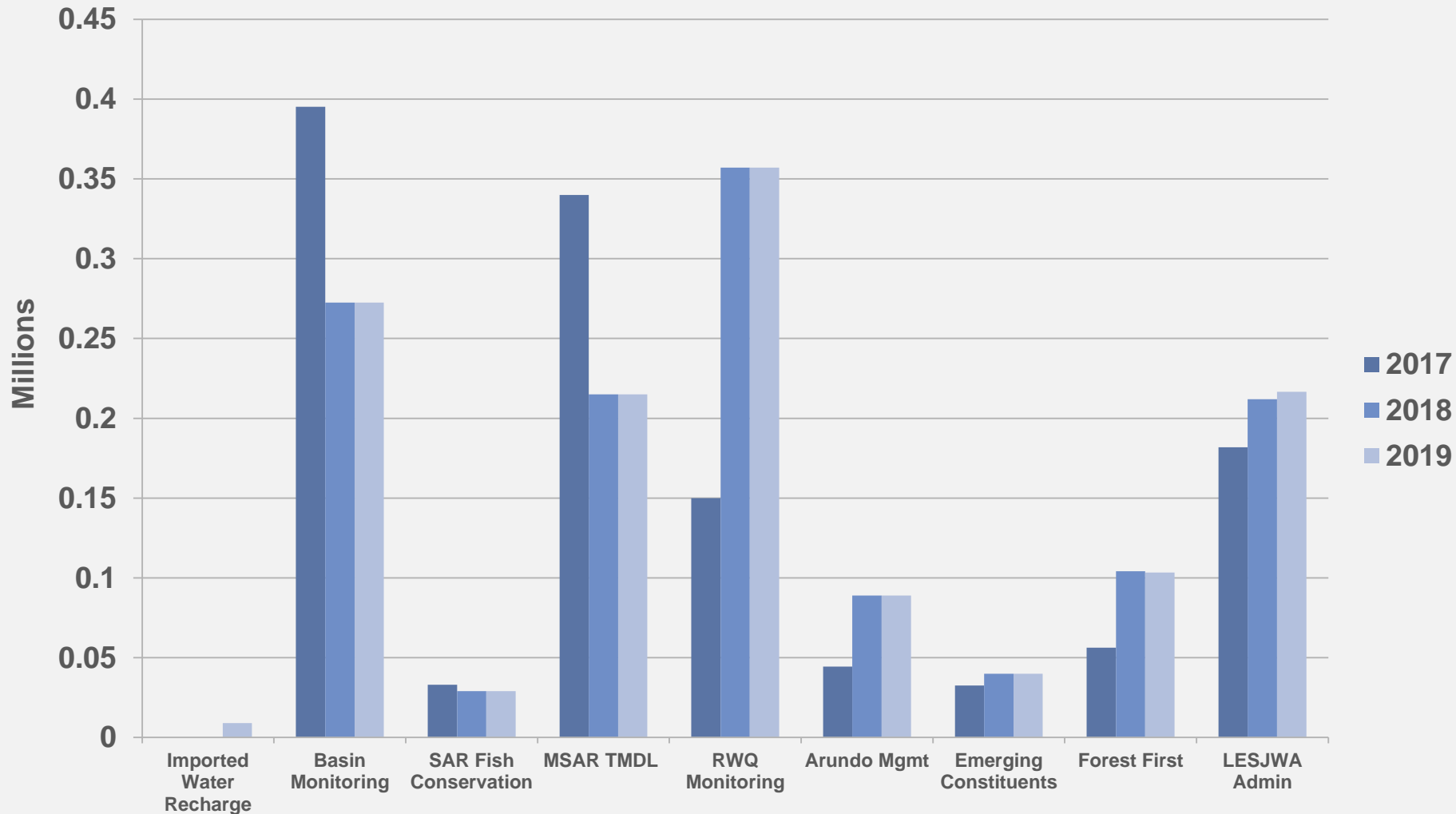
**SAWPA
ROUNDTABLES**



Roundtables Funds

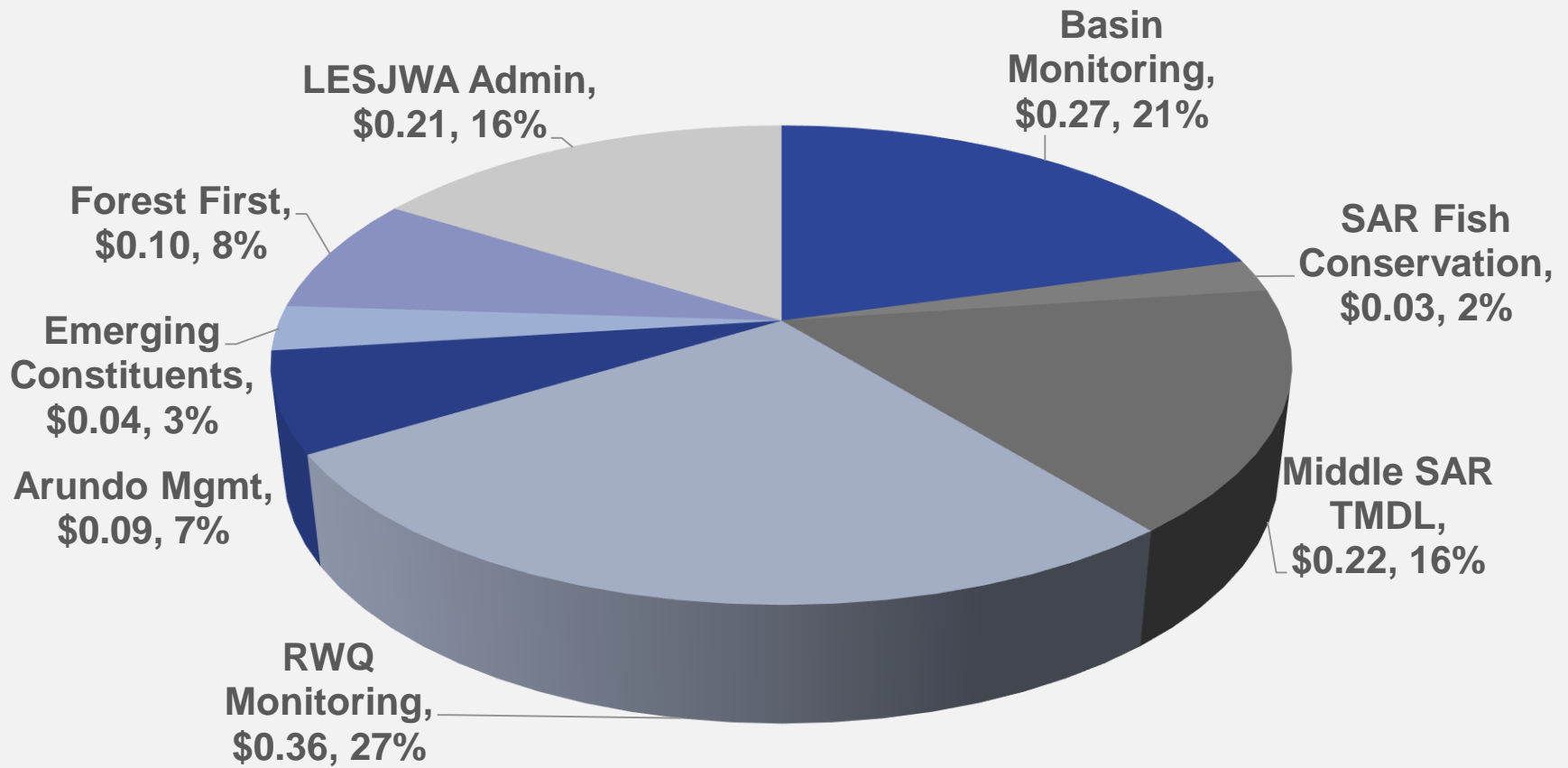
Fund Number	Fund Title
372	Imported Water Recharge Workgroup
374	Basin Monitoring Program Task Force
381	Santa Ana River Fish Conservation
384-01	Middle SAR TMDL Task Force
386	Regional Water Quality Monitoring Task Force
387	Arundo Management & Habitat Restoration
392	Emerging Constituents Task Force
396	Forest First
477	LESJWA Administration

Roundtables Funds - Revenue



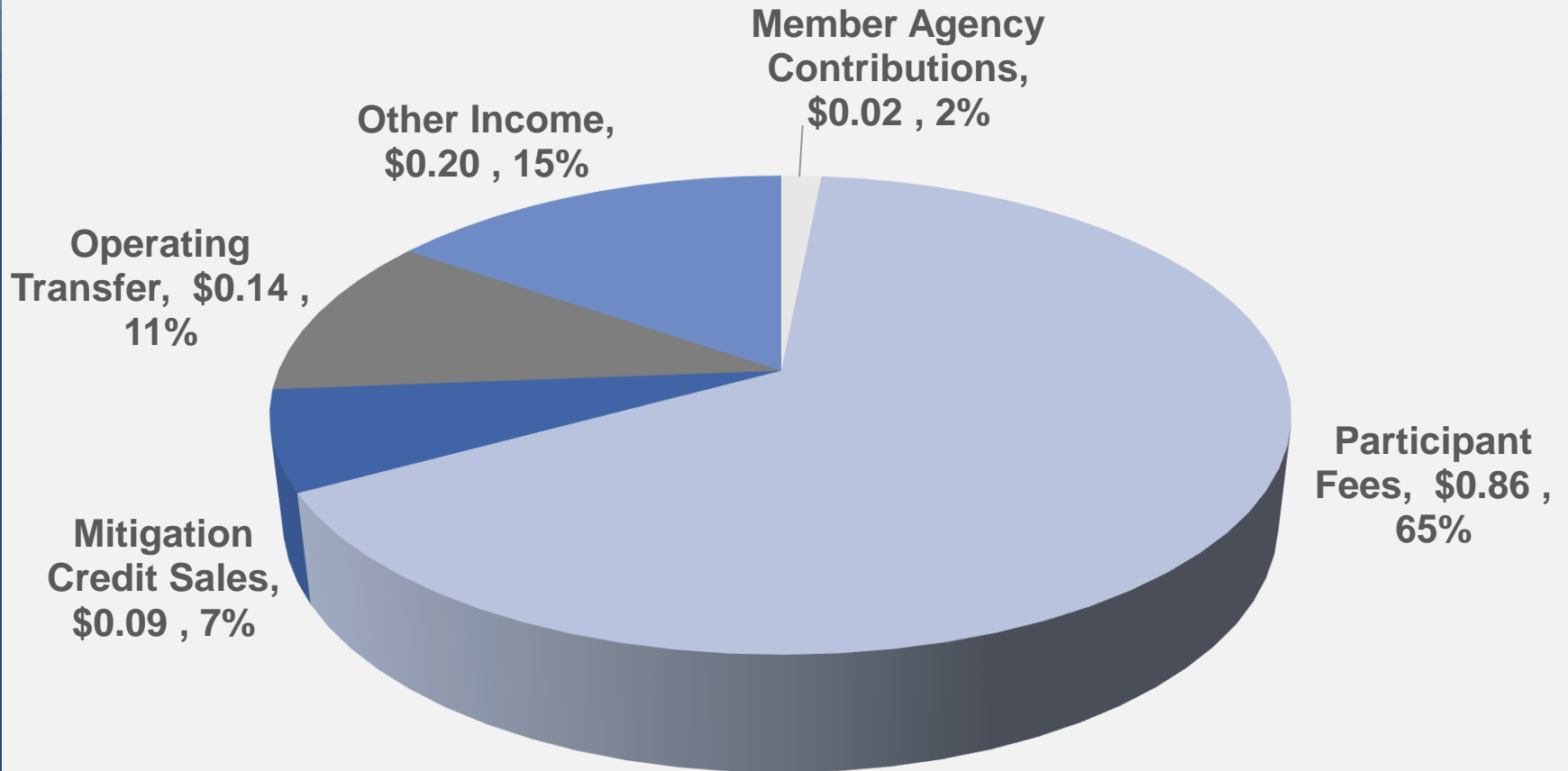
FYE 2018

Revenues \$1.32 M



FYE 2018

Revenues \$1.32 M



FYE 2019

Revenues \$1.33 M

**Imported Water
Recharge,
\$0.01, 1%**

**Basin
Monitoring,
\$0.27, 20%**

**LESJWA Admin,
\$0.22, 16%**

**SAR Fish
Conservation,
\$0.03, 2%**

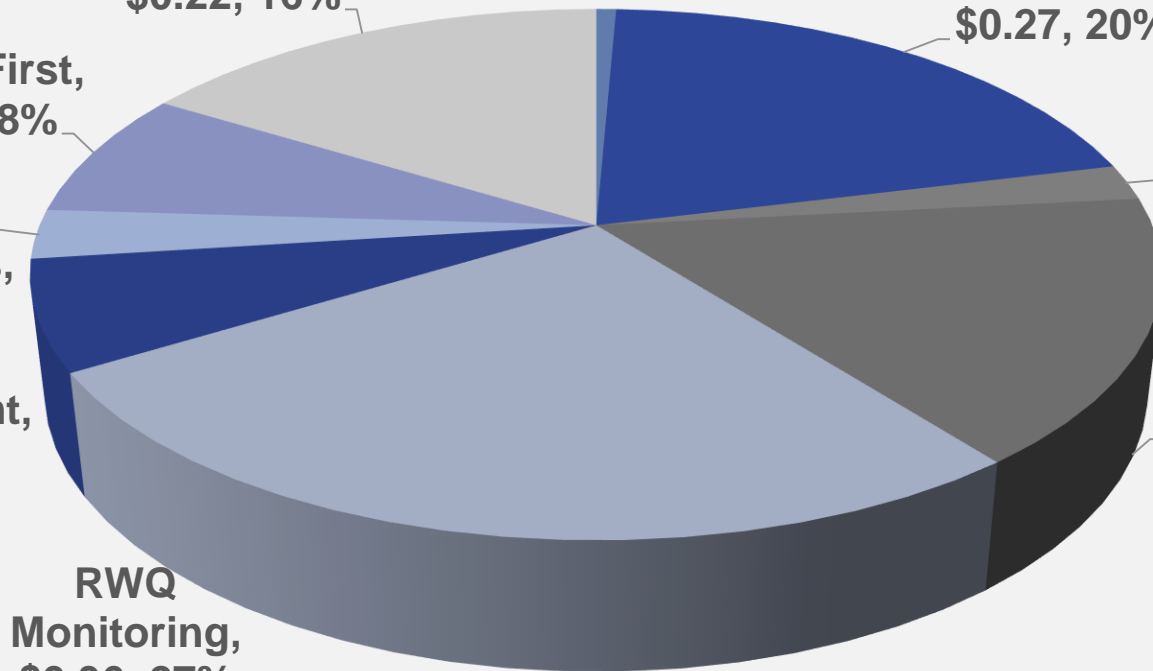
**Forest First,
\$0.10, 8%**

**Emerging
Constituents,
\$0.04, 3%**

**MSAR TMDL,
\$0.22, 16%**

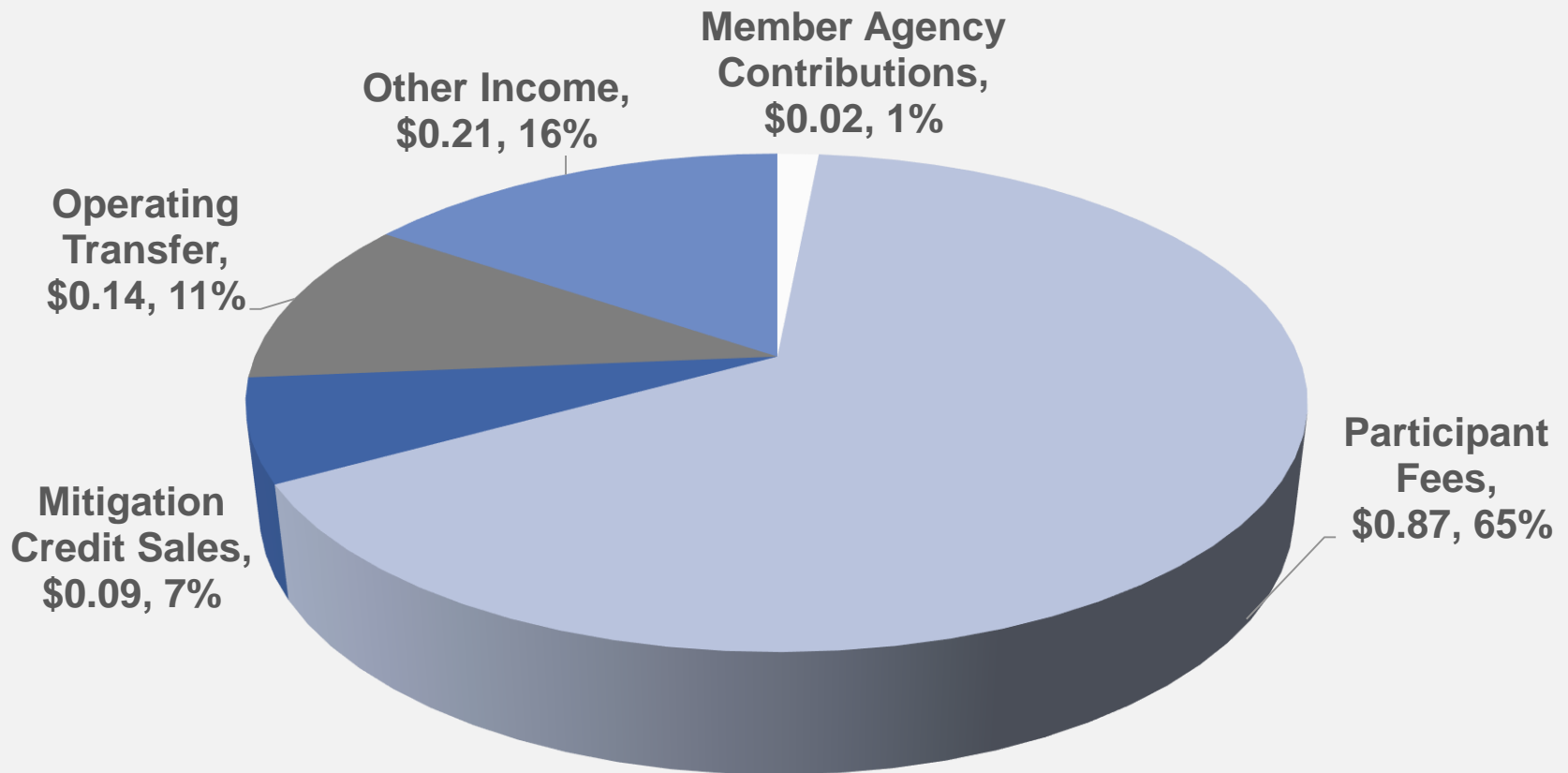
**Arundo Mgmt,
\$0.09, 7%**

**RWQ
Monitoring,
\$0.36, 27%**



FYE 2019

Revenues \$1.33 M





Participant Fees

Fund	FYE 2017	FYE 2018	FYE 2019
Imported Water Recharge	\$0	\$0	\$9,000
Basin Monitoring Program TF	395,151	272,447	272,447
SAR Fish Conservation	23,000	19,000	19,000
Middle SAR TMDL TF	340,000	215,000	215,000
RWQ Monitoring TF	100,000	212,796	212,796
Emerging Constituents TF	32,500	40,000	40,000
Forest First	56,227	104,202	103,308
Total	\$946,878	\$863,445	\$871,551



Member Agency Contributions

Fund	FYE 2017	FYE 2018	FYE 2019
SAR Fish Conservation TF	\$10,000	\$10,000	\$10,000
RWQ Monitoring TF	50,000	0	0
LESJWA Administration	10,000	10,000	10,000
Total	\$70,000	\$20,000	\$20,000



Mitigation Credit Sales

Fund	FYE 2017	FYE 2018	FYE 2019
Arundo Management & Habitat	\$44,490	\$88,980	\$88,980
Total	\$44,490	\$88,980	\$88,980



Operating Transfer

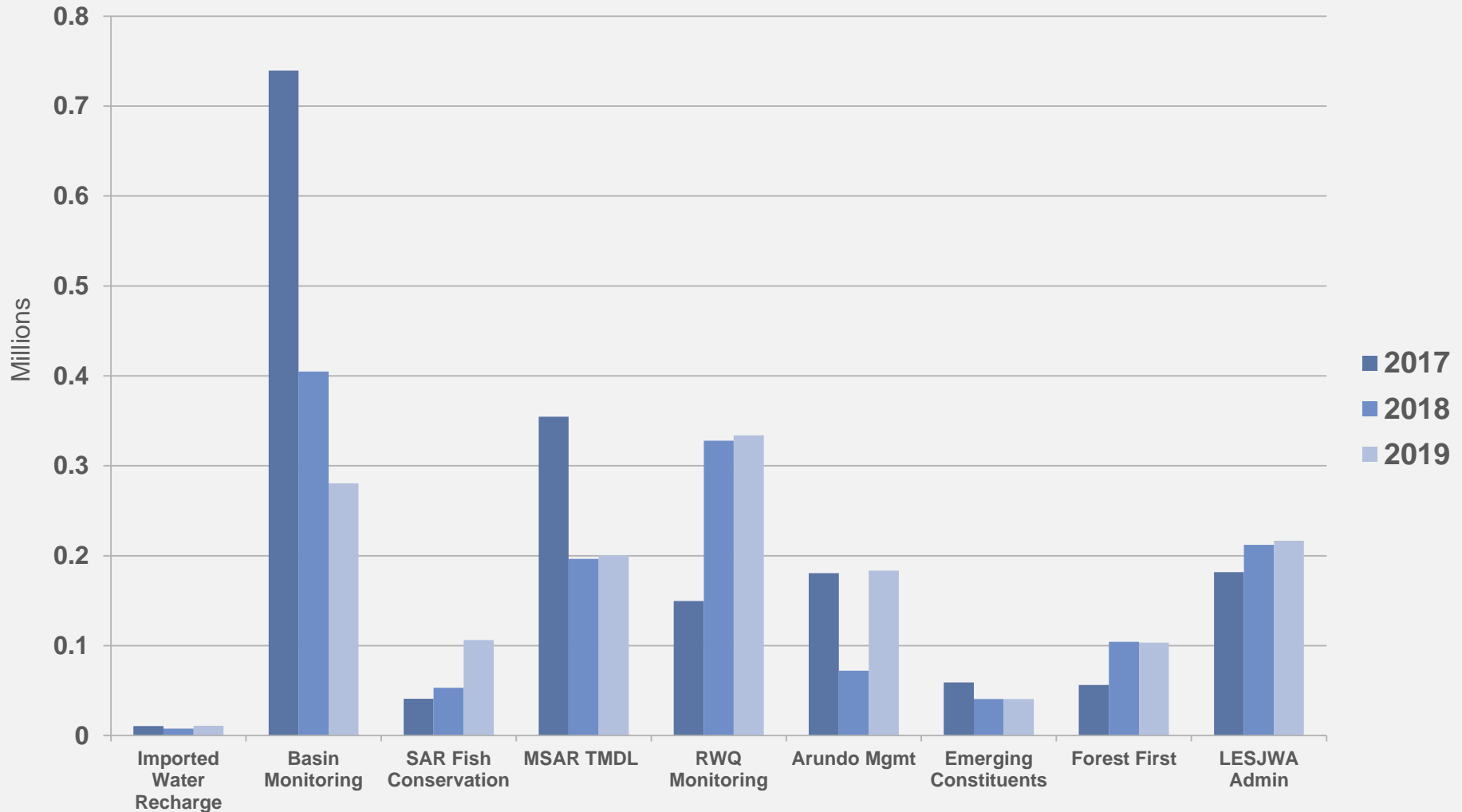
Fund	FYE 2017	FYE 2018	FYE 2019
RWQ Monitoring TF	\$0	\$144,252	\$144,252
Total	\$0	\$144,252	\$144,252



Other Income

Fund	FYE 2017	FYE 2018	FYE 2019
LESJWA Administration	\$212,638	\$202,027	\$206,674
Total	\$212,638	\$202,027	\$206,674

Roundtables Funds – Expenses



FYE 2018

Expenses \$1.42 M

**Imported Water
Recharge,
\$0.01, 1%**

**Basin
Monitoring,
\$0.40, 28%**

**SAR Fish
Conservation,
\$0.05, 4%**

**MSAR TMDL,
\$0.20, 14%**

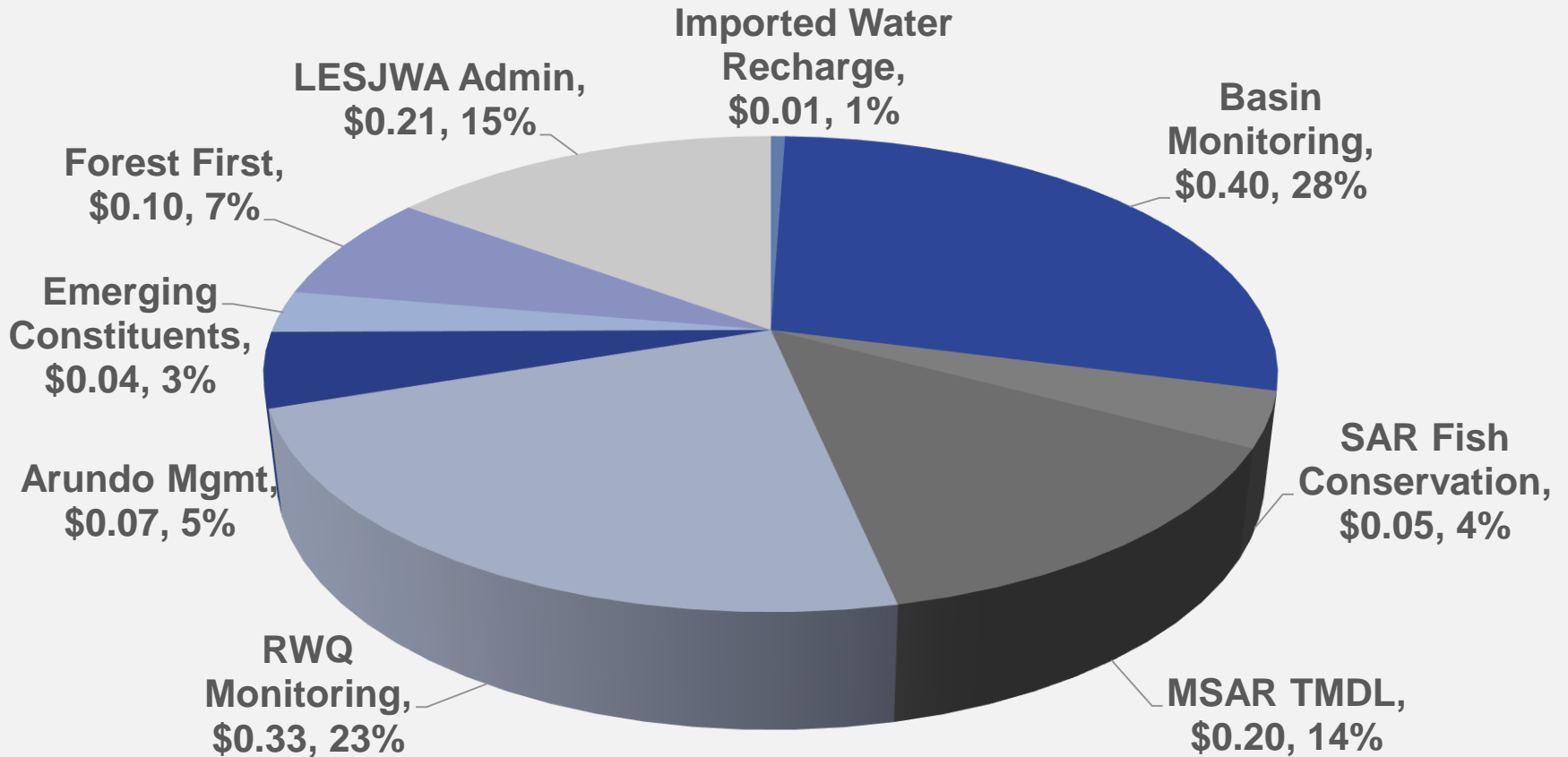
**RWQ
Monitoring,
\$0.33, 23%**

**Arundo Mgmt,
\$0.07, 5%**

**Emerging
Constituents,
\$0.04, 3%**

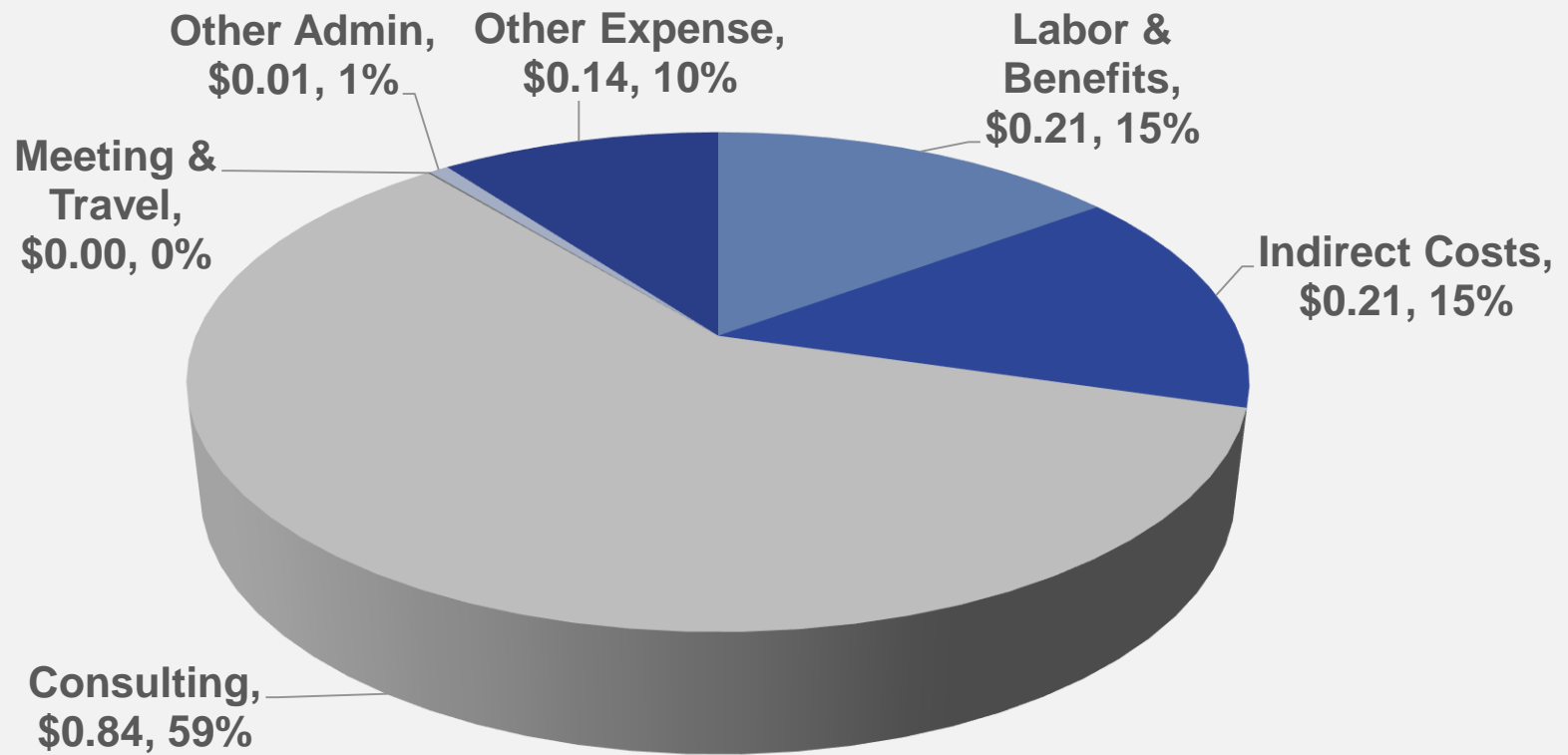
**Forest First,
\$0.10, 7%**

**LESJWA Admin,
\$0.21, 15%**



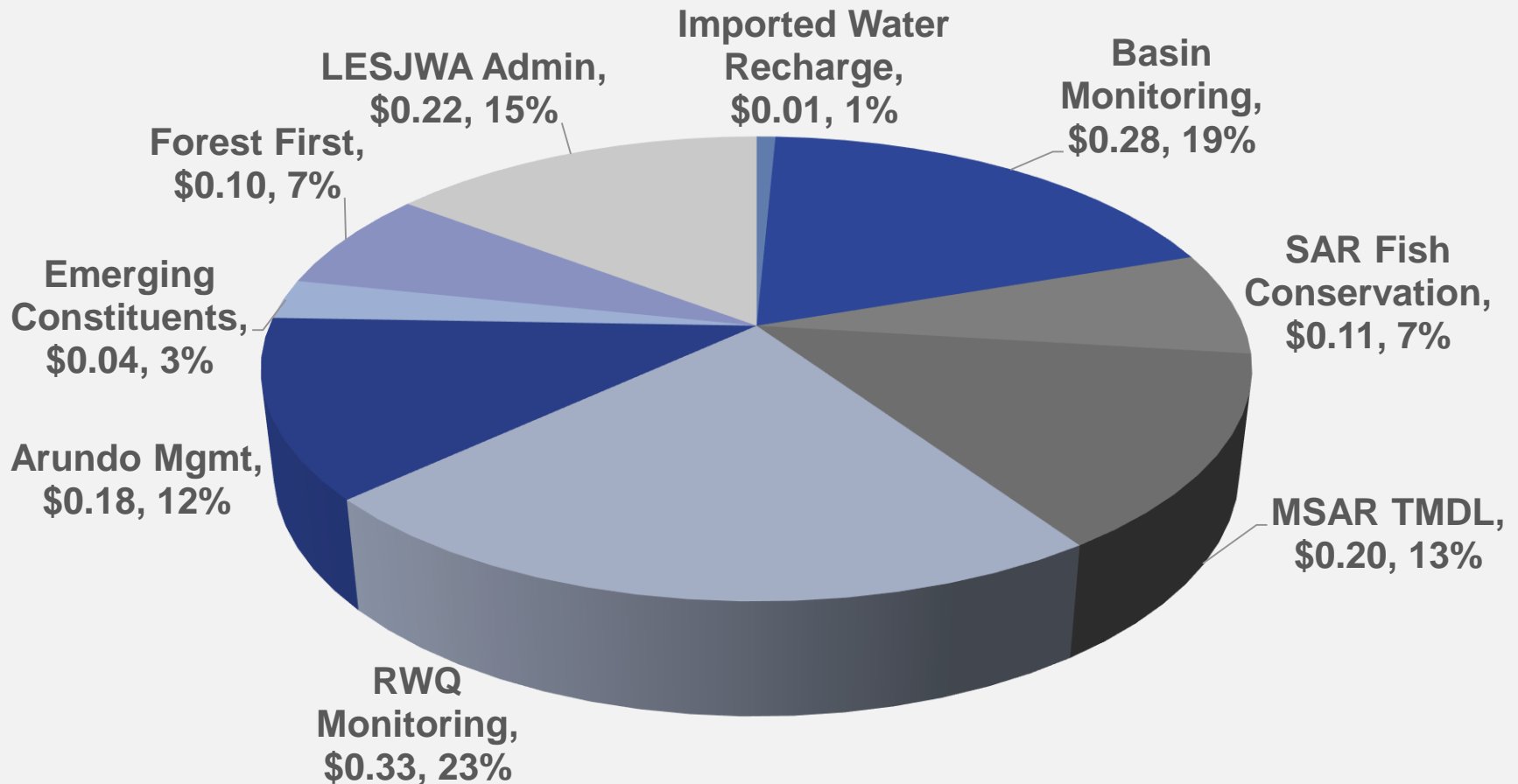
FYE 2018

Expenses \$1.42 M



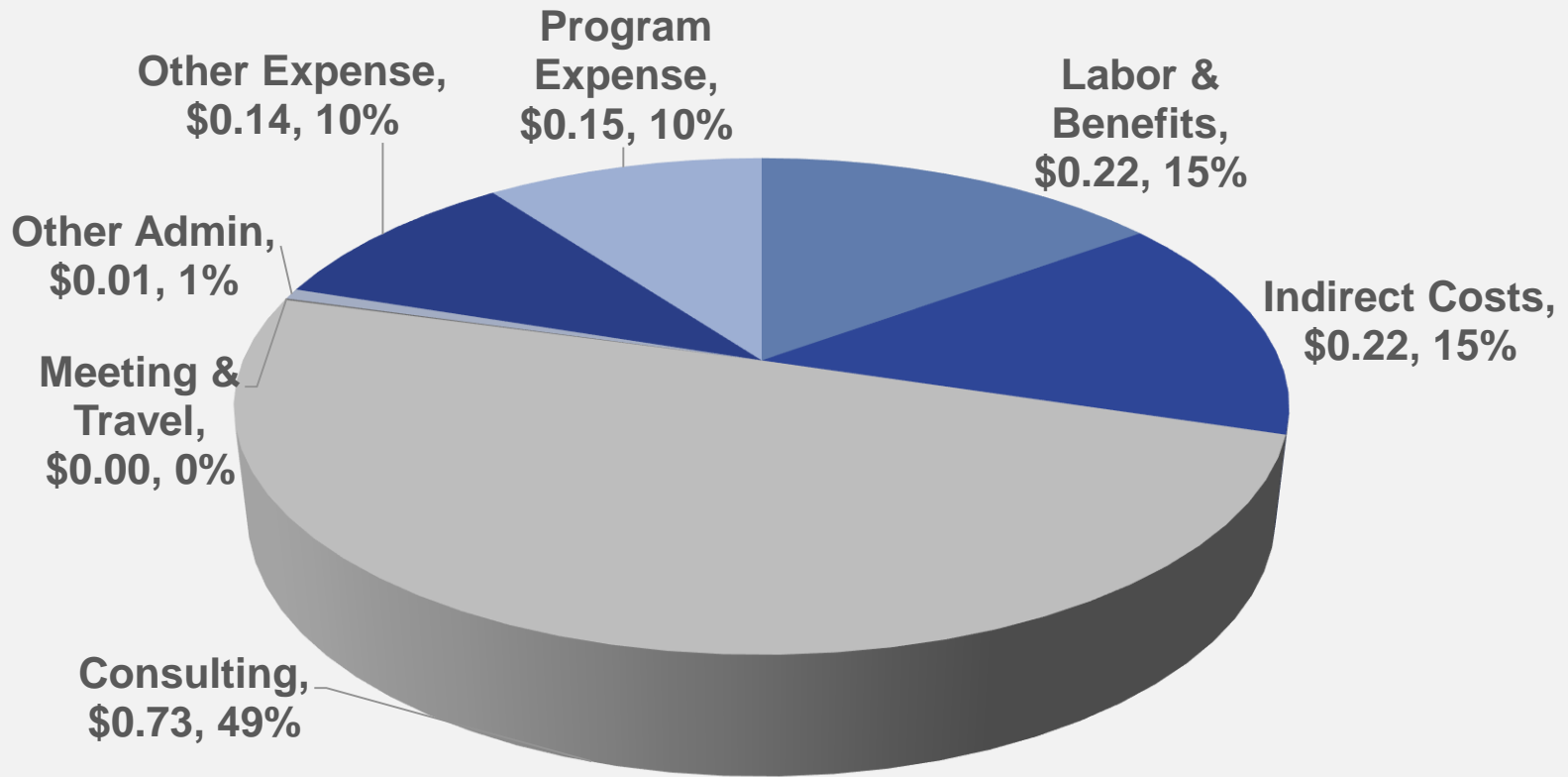
FYE 2019

Expenses \$1.48 M



FYE 2019

Expenses \$1.5 M





Expenses

Fund	FYE 2017	FYE 2018	FYE 2019
Imported Water Recharge	\$10,523	\$7,698	\$10,804
Basin Monitoring Program TF	739,511	404,772	280,534
SAR Fish Conservation	41,030	53,156	106,303
Middle SAR TMDL TF	354,456	196,554	200,470
RWQ Monitoring TF	149,546	327,988	333,802
Arundo Management & Habitat	180,687	72,281	183,367
Emerging Constituents TF	59,166	40,528	40,719
Forest First	56,227	104,202	103,308
LESJWA Administration	181,782	212,027	216,674
Total	\$1,772,928	\$1,419,206	\$1,475,981

Fund Balance FYE 2018

Fund	Projected Fund Balance 06/30/17	Revenues	Expenses	Fund Balance 06/30/18
Imported Water Recharge Workgroup	\$10,899	\$0	(\$7,698)	\$3,202
Basin Monitoring Program Task Force	276,374	272,447	(404,772)	144,050
Santa Ana River Fish Conservation	185,817	29,000	(53,156)	161,661
Middle SAR TMDL Task Force	237,247	215,000	(196,554)	255,693
Regional Water Quality Monitoring TF	22,549	357,048	(327,988)	51,609
Arundo Management & Habitat Restoration	961,761	88,980	(72,281)	978,460
Emerging Constituents Task Force	87,913	40,000	(40,528)	87,385
Forest First	0	104,202	(104,202)	0
LESJWA Administration	0	212,027	(212,027)	0
Total	\$1,782,561	\$1,318,704	(\$1,419,206)	\$1,682,060

Fund Balance FYE 2019

Fund	Projected Fund Balance 06/30/18	Revenues	Expenses	Fund Balance 06/30/19
Imported Water Recharge Workgroup	\$3,202	\$9,000	(\$10,804)	\$1,398
Basin Monitoring Program Task Force	144,050	272,447	(280,534)	135,962
Santa Ana River Fish Conservation	161,661	29,000	(106,303)	84,358
Middle SAR TMDL Task Force	255,693	215,000	(200,470)	270,223
Regional Water Quality Monitoring TF	51,609	357,048	(333,802)	74,855
Arundo Management & Habitat Restoration	978,460	88,980	(183,367)	884,072
Emerging Constituents Task Force	87,385	40,000	(40,419)	86,666
Forest First	0	103,308	(103,308)	0
LESJWA Administration	0	216,674	(216,674)	0
Total	\$1,682,060	\$1,331,457	(\$1,475,981)	\$1,537,535

Indirect Cost Allocation - Roundtables

Fund	FYE 2018	FYE 2019
Imported Water Recharge Workgroup	\$3,814	\$5,352
Basin Monitoring Program Task Force	43,164	43,537
Santa Ana River Fish Conservation	14,395	14,839
Middle SAR TMDL Task Force	13,378	15,316
Regional Water Quality Monitoring Task Force	10,142	13,021
Arundo Management & Habitat Restoration	15,795	16,182
Emerging Constituents Task Force	5,216	5,310
Forest First	2,082	1,639
LESJWA Administration	99,892	102,181
Total	\$207,877	\$217,376
% of Total Indirect Costs	7.04%	6.96%



General Fund Budget



A close-up photograph of a silver fountain pen nib resting on a document. The document features a line graph with a red line and handwritten text in blue ink. The months 'Feb.', 'Apr.', and 'Jun.' are visible on the graph's x-axis. The title 'Budget Policy Practices' is overlaid in large, bold, black font on the right side of the image.

Budget Policy Practices

- The General Fund is used for all JPA administrative functions in support of the Commission, legislative needs, headquarter building facility and maintenance, and all other functions not specifically related directly to projects.

A close-up photograph of a silver fountain pen nib resting on a document. The document features a line graph with a red line and handwritten text in blue ink. The months 'Feb.', 'Apr.', and 'Jun.' are visible on the graph's x-axis. The title 'Budget Policy Practices' is overlaid in large, bold, black font on the right side of the image.

Budget Policy Practices

- SAWPA will endeavor to keep the indirect cost rate constant from year to year to provide stability in costs charged to projects using SAWPA labor, and for reimbursable contracts and charges to outside agencies.

A close-up photograph of a silver fountain pen nib resting on a document. The document features a line graph with a red line showing an upward trend. The x-axis of the graph is labeled with months: 'Feb.', 'Apr.', 'Jun.', and 'Aug.'. The word 'BUDGET' is partially visible in large, bold letters on the document. The background is a soft, out-of-focus blue.

Budget Policy Practices

- SAWPA will work to keep member agency contributions reasonable and relatively constant to provide stability for the member agencies.



JPA Operations

Brine Line Enterprise

Fund 240
Brine Line Operations

Brine Line Debt Service

Capital Projects

Fund 320
Brine Line Protection

Fund 326
Reach V Repairs

Fund 327
Reach 4D Corrosion Repair

OWOW

Fund 373
Watershed Management

Fund 370-01
General Basin Planning

Fund 370-02
USBR Partnership Studies

Fund 397
Water-Energy Grant

Fund 398
Proposition 1 - DACI

Fund 130-145
Prop 84 Grant Admin

Fund 504-301
Drought Round Projects

Fund 540-401
2015 Round SARCCUP

Roundtable

Fund 372
Imported Water Recharge

Fund 374
Basin Monitoring TF

Fund 381
SAR Fish Conservation TF

Fund 384-01
MSAR TMDL TF

Fund 386
RWQ Monitoring TF

Fund 387
Arundo Mgmt & Habitat

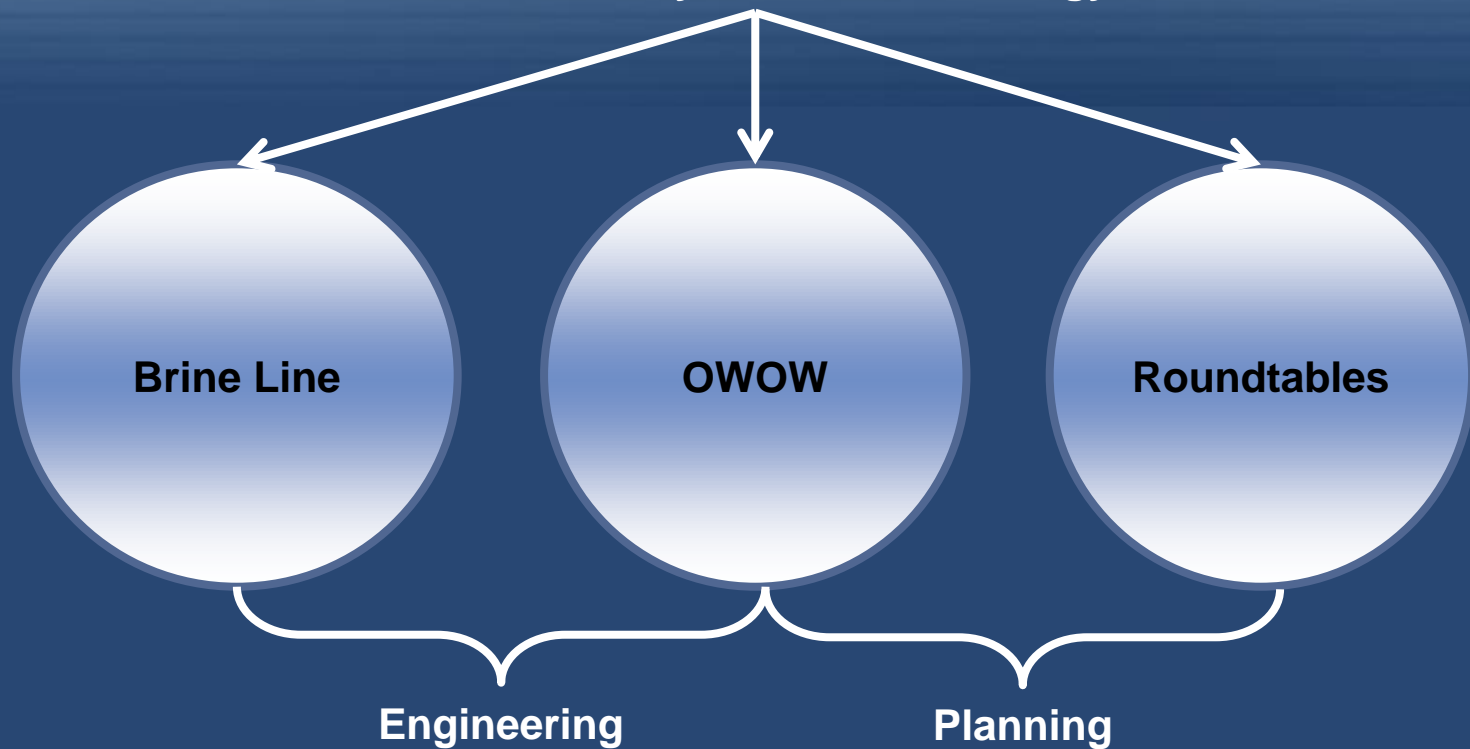
Fund 392
Emerging Constituents TF

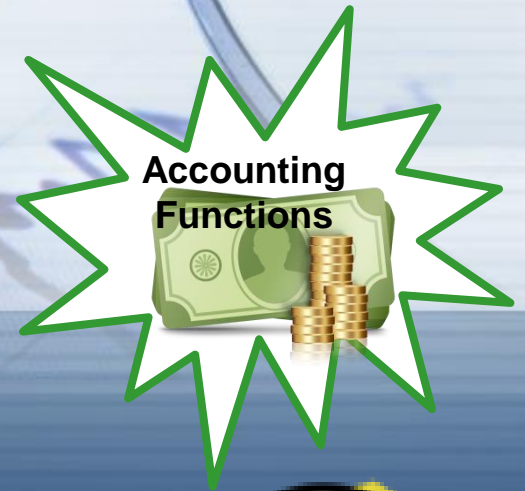
Fund 396
Forest First

Fund 477
LESJWA Administration



Administration
Finance/Accounting
Information Systems & Technology





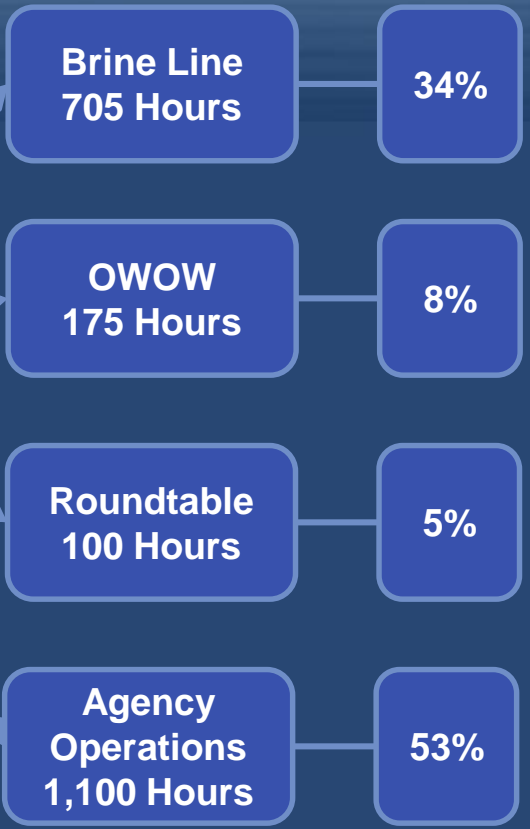
JPA Costs



Payroll Activities

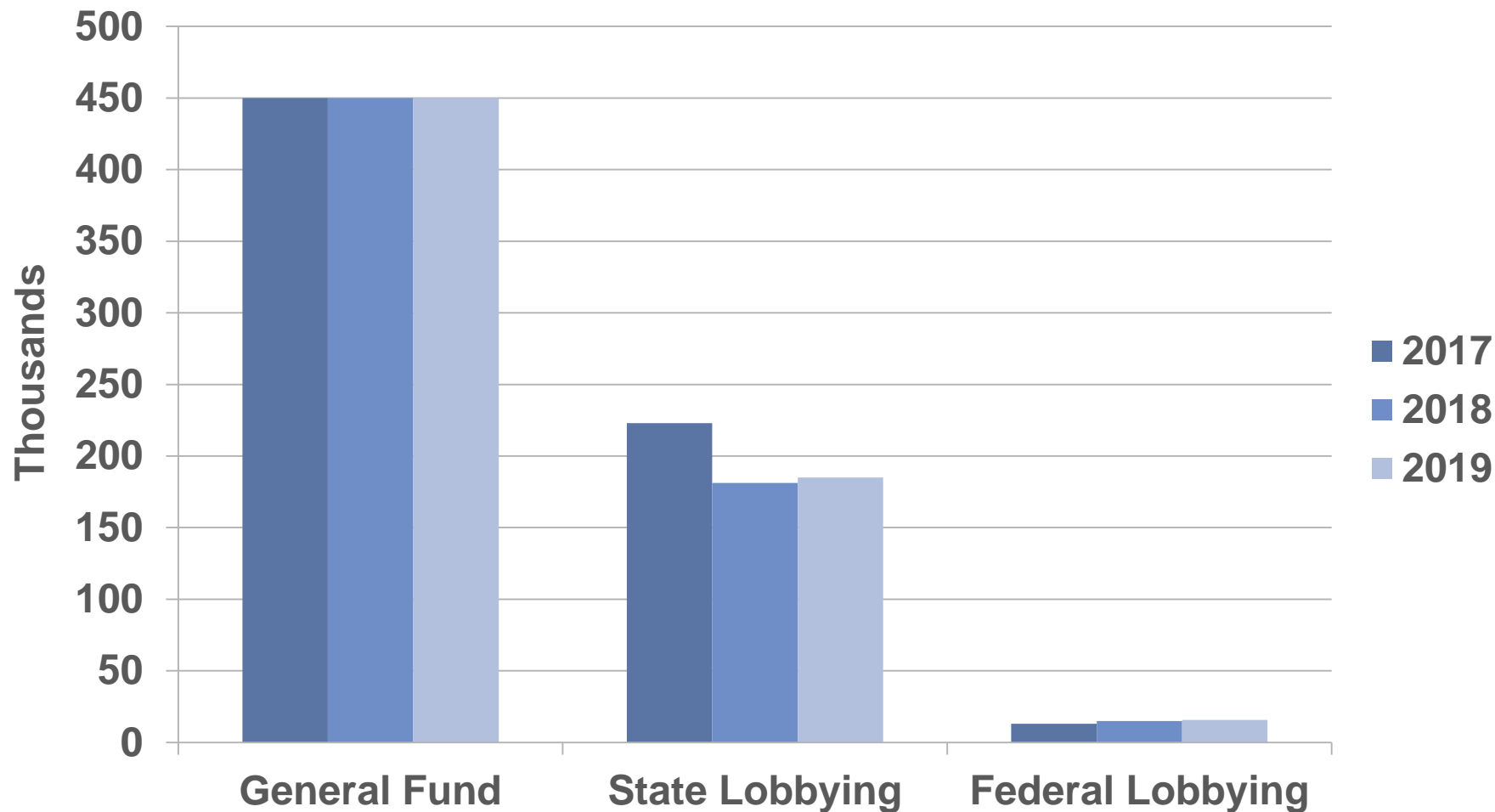


**2,080
Hours**



100%

General Fund Costs





General Fund Costs

Fund	FYE 2017	FYE 2018	FYE 2019
General Fund	\$450,000	\$450,000	\$450,000
State Lobbying	223,005	181,154	184,980
Federal Lobbying	26,302	14,962	15,715
Total	\$699,307	\$646,118	\$650,695

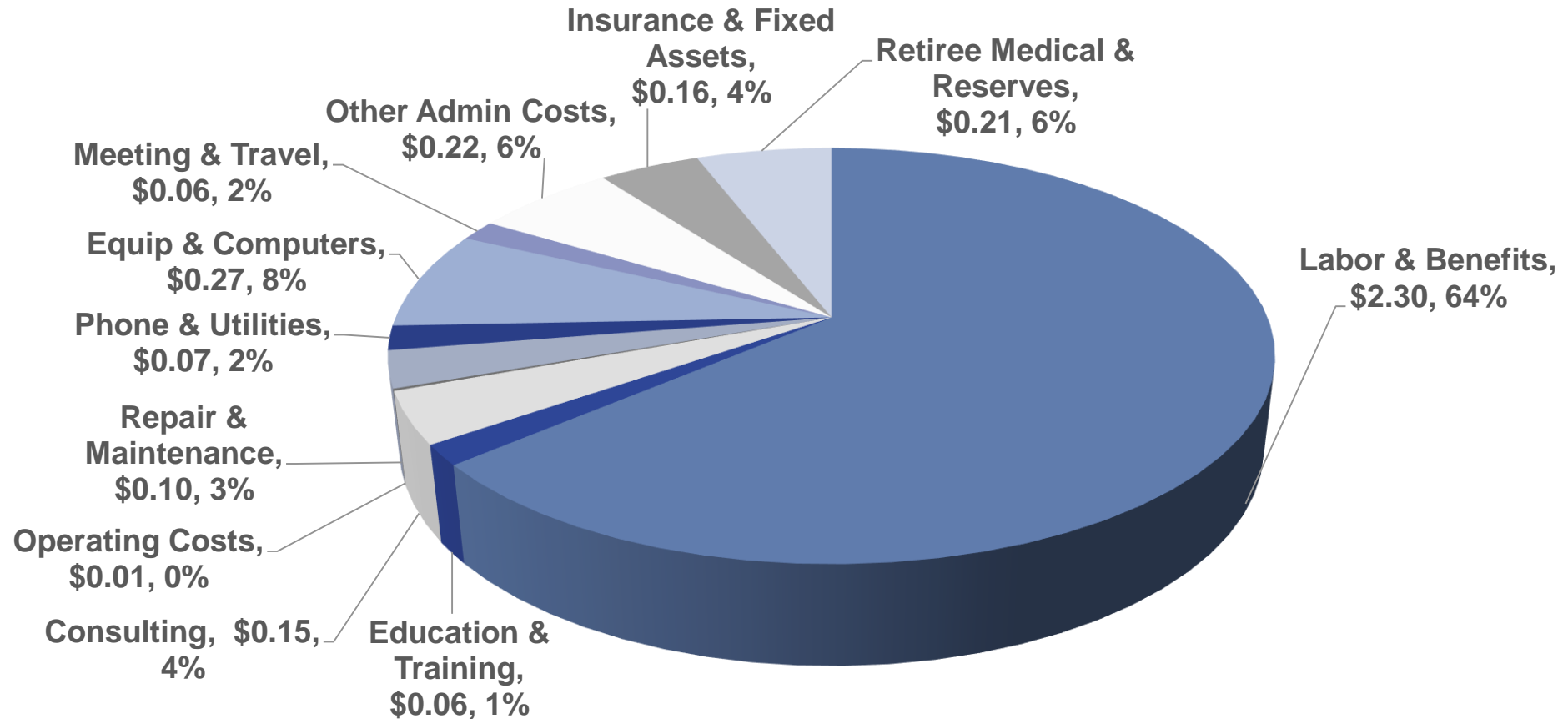



General Fund Costs

Fund	FYE 2017	FYE 2018	FYE 2019
Labor and Benefits	\$2,109,540	\$2,095,924	\$2,300,239
Education & Training	56,300	57,300	57,300
Consulting & Professional Services	95,000	146,000	134,400
Operating Costs	7,500	5,820	6,090
Repair & Maintenance	131,085	103,270	105,540
Phone & Utilities	71,000	68,200	73,620
Equipment & Computers	212,710	274,800	232,900
Meeting & Travel	54,200	57,500	57,500
Other Administrative Expenses	186,970	220,956	226,277
Insurance & Fixed Assets	105,000	157,956	164,703
Retiree Medical & Building Reserves	230,580	213,000	213,000
Total Before Indirect Cost Allocations	\$3,259,885	\$3,400,725	\$3,571,569
Less Indirect Cost Allocations	(2,809,885)	(2,950,725)	(3,121,569)
Total General Fund Costs	\$450,000	\$450,000	\$450,000

FYE 2018

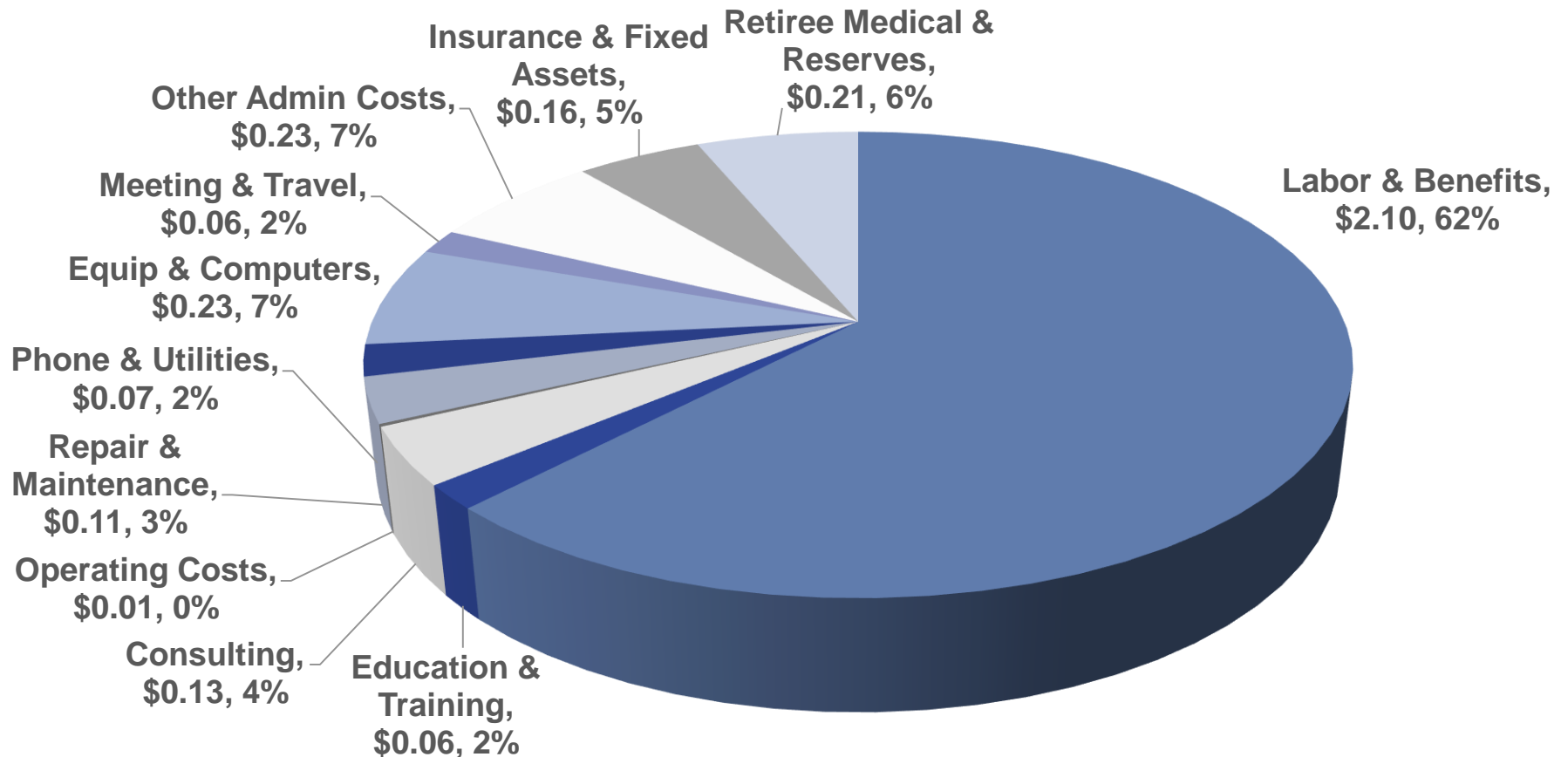
General Fund Costs \$3.4 M





FYE 2019

General Fund Costs \$3.5 M





Fixed Assets

Asset	FYE 2018	FYE 2019
Roof Repair	\$20,000	\$0
Redesign/Install Irrigation System	12,000	0
Repair Broken/Leaking Windows	6,000	6,000
Install Utilities Conduit Under Parking Lot	5,000	0
Carpet Replacement	0	20,000
Redesign Office Space/Furniture	0	12,500
Replace Existing A/C Units	10,000	10,000
Total Fixed Asset Costs	\$53,000	\$48,500

A close-up photograph of a silver fountain pen nib resting on a document. The document features a line graph with a red line showing an upward trend. The x-axis of the graph is labeled with months: 'Feb.', 'Apr.', 'Jun.', and 'Aug.'. There is also some handwritten text in blue ink on the document, including the word 'MAY' and some numbers. The background is a dark blue gradient.

Labor Assumptions Used

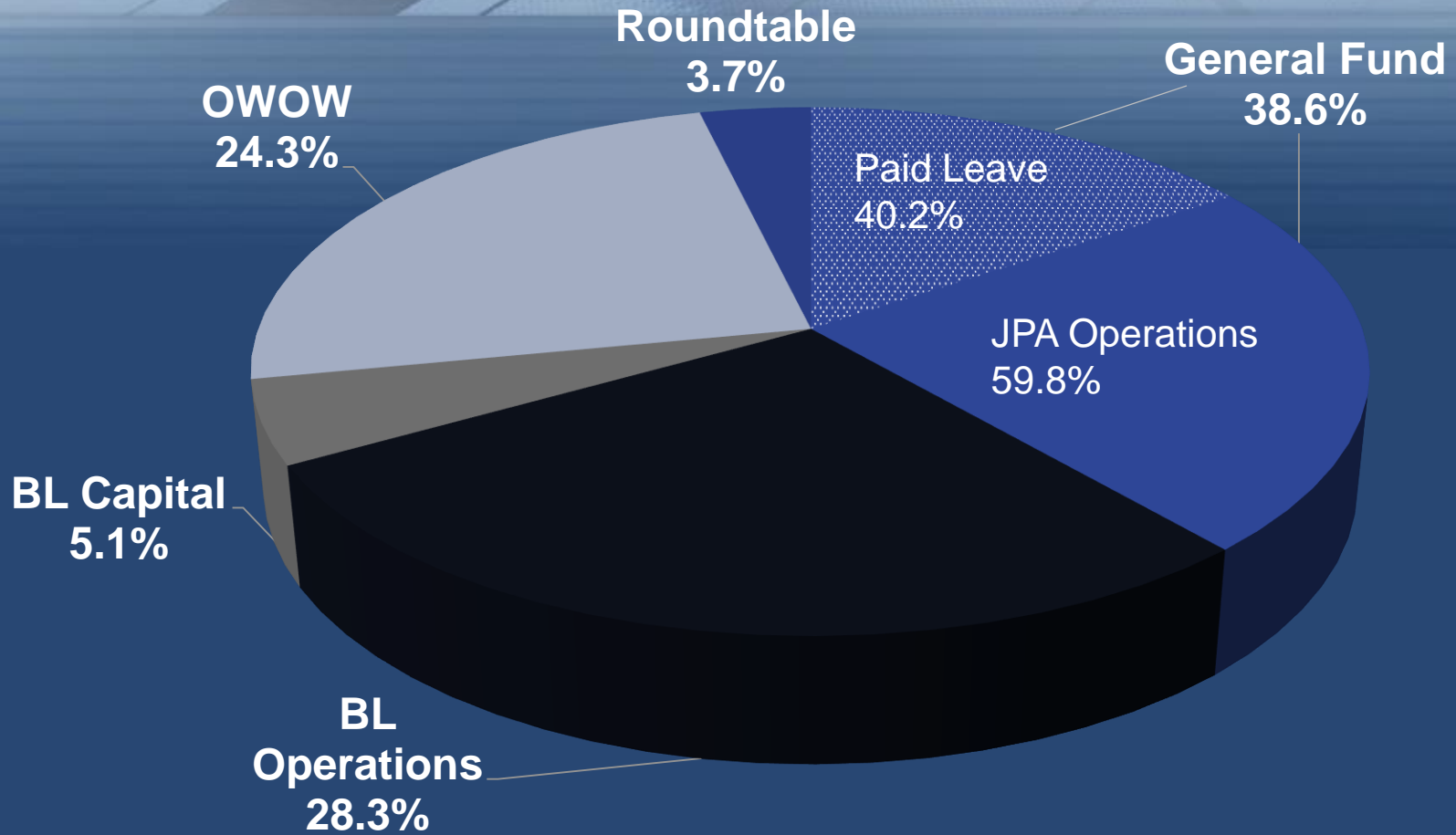
- 28 FTE
 - 26 filled and approved FTE
 - 2 unfilled budgeted positions
- 4 Interns
- Approved 4% Merit Pool (both years)
- Approved 1.25% or annual indexed COLA using the LA-Riverside-Orange County CPI index (whichever is greater)



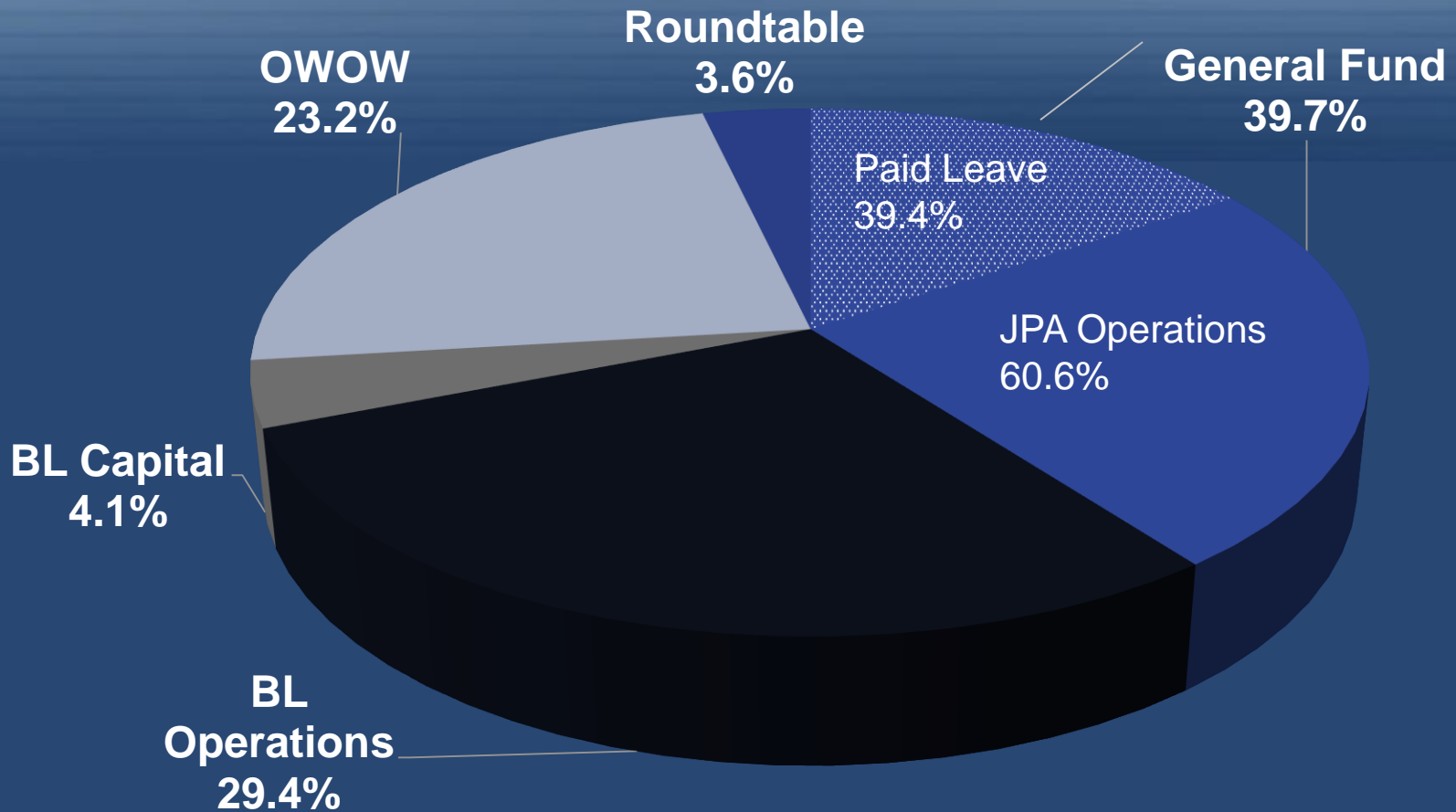
Staff Labor Hours

FYE	FYE 2018	FYE 2019
Total Labor Hours (All Staff)	62,080	62,080
FTE (2,080)	28	28
Interns (960)	4	4
Total General Fund Hours	23,953	24,625
Total FTE's for General Fund	11.5	11.8
% of Total Staff Labor Hours	38.6%	39.7%

Labor Hours Distribution – FYE 2018



Labor Hours Distribution – FYE 2019





Total Labor Hours Distribution

Fund	FYE 2018	% of Total	FYE 2019	% of Total
General Fund	23,953	38.6%	24,625	39.7%
Brine Line Operating Fund	17,550	28.3%	18,250	29.4%
Brine Line Capital Fund	3,176	5.1%	2,515	4.1%
OWOW Funds	15,075	24.3%	14,429	23.2%
Roundtable Funds	2,326	3.7%	2,261	3.6%
Total	62,080	100.0%	62,080	100.0%



Paid Leave Hours

Hours	FYE 2018	FYE 2019
Total Paid Leave Hours (All Staff)	9,630	9,702
Total JPA Operations Hours (All Staff)	14,323	14,923
Total General Fund Hours	23,953	24,625
% of Paid Leave Hours to General Fund	40.2%	39.4%



Employee Demographics

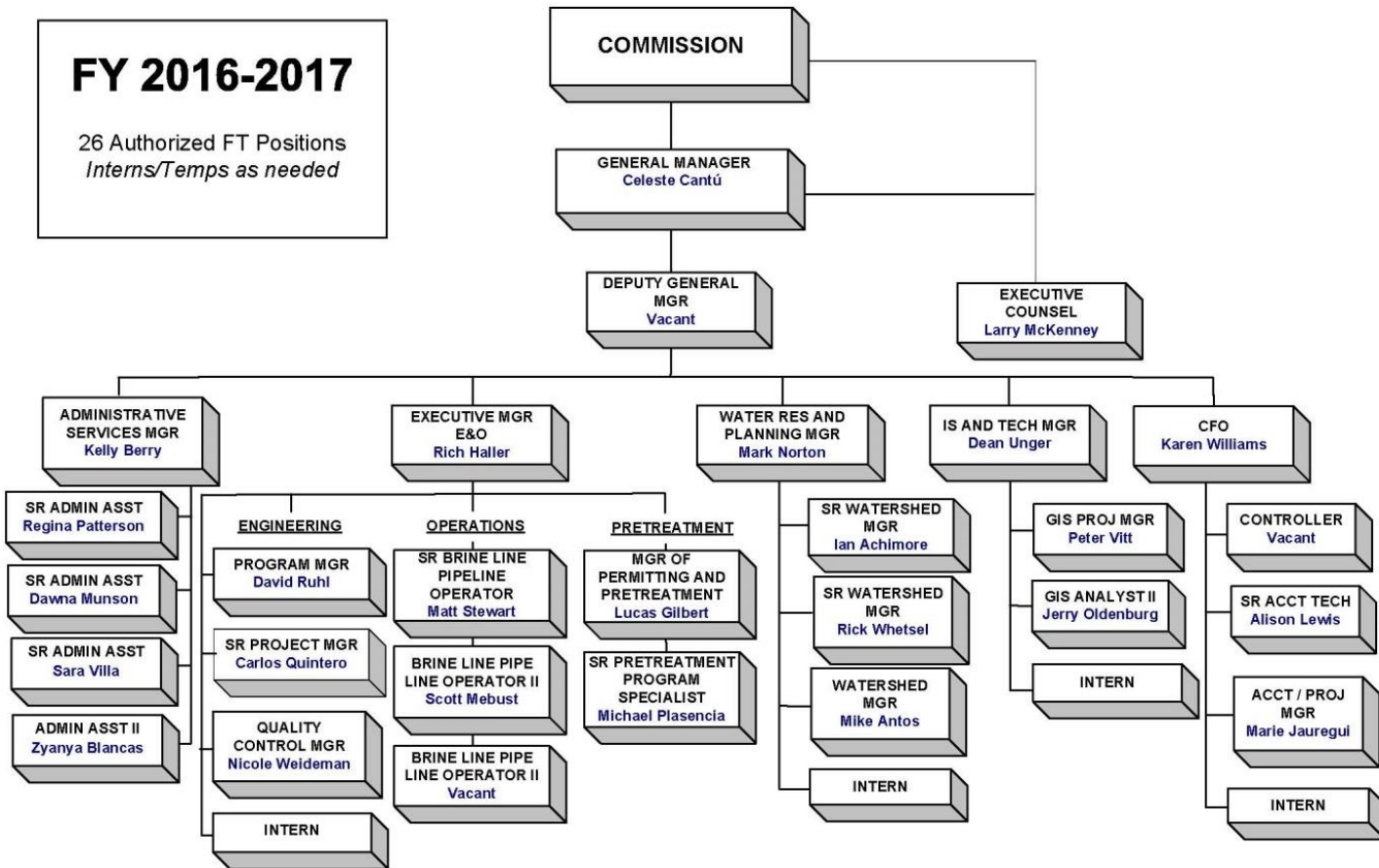
	0-5 Years	6-10 Years	11-15 Years	16 + Years	Total
Employees	9	6	5	6	26
% of Employees	34.6%	23.1%	19.2%	23.1%	100.0%
Leave Hours *	315	324 - 360	369 - 405	405	N/A

Organization Chart

SAWPA ORGANIZATION CHART

FY 2016-2017

26 Authorized FT Positions
Interns/Temps as needed





Positions by Department

Department	FYE 2014	FYE 2015	FYE 2016	FYE 2017	FYE 2018	FYE 2019
Executive Management	2	2	2	2	2	2
Administrative Services	5	5	5	5	5	5
Finance/Accounting	3	3	3	3	3	3
Information Systems and Technology	3	3	3	3	3	3
Engineering & Operations	7	7	9	9	10	10
Water Resources & Planning	3	3	4	4	5	5
Total Positions	23	23	26	26	28	28

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Benefit Assumptions Used

- Health insurance cap based on the lowest cost plan (Kaiser family) - \$1,505.65/month
- Classic PERS 2% @ 55, PEPRA 2% @ 62
 - FYE 2018 employers rate (includes increase for lowered discount rate)
 - Classic = 10.0%
 - PEPRA = 7.5%
 - FYE 2019 employers rate (includes increase for lowered discount rate)
 - Classic = 10.9%
 - PEPRA = 8.0%
 - Employer Paid Member Contribution (EPMC)
 - FYE 2018 = 4.2%
 - FYE 2019 = 2.8%
 - GASB 45 Compliance – Annual Required Contribution (ARC)
 - FYE 2018 = \$113,000
 - FYE 2019 = \$113,000



Total Payroll & Benefit Costs

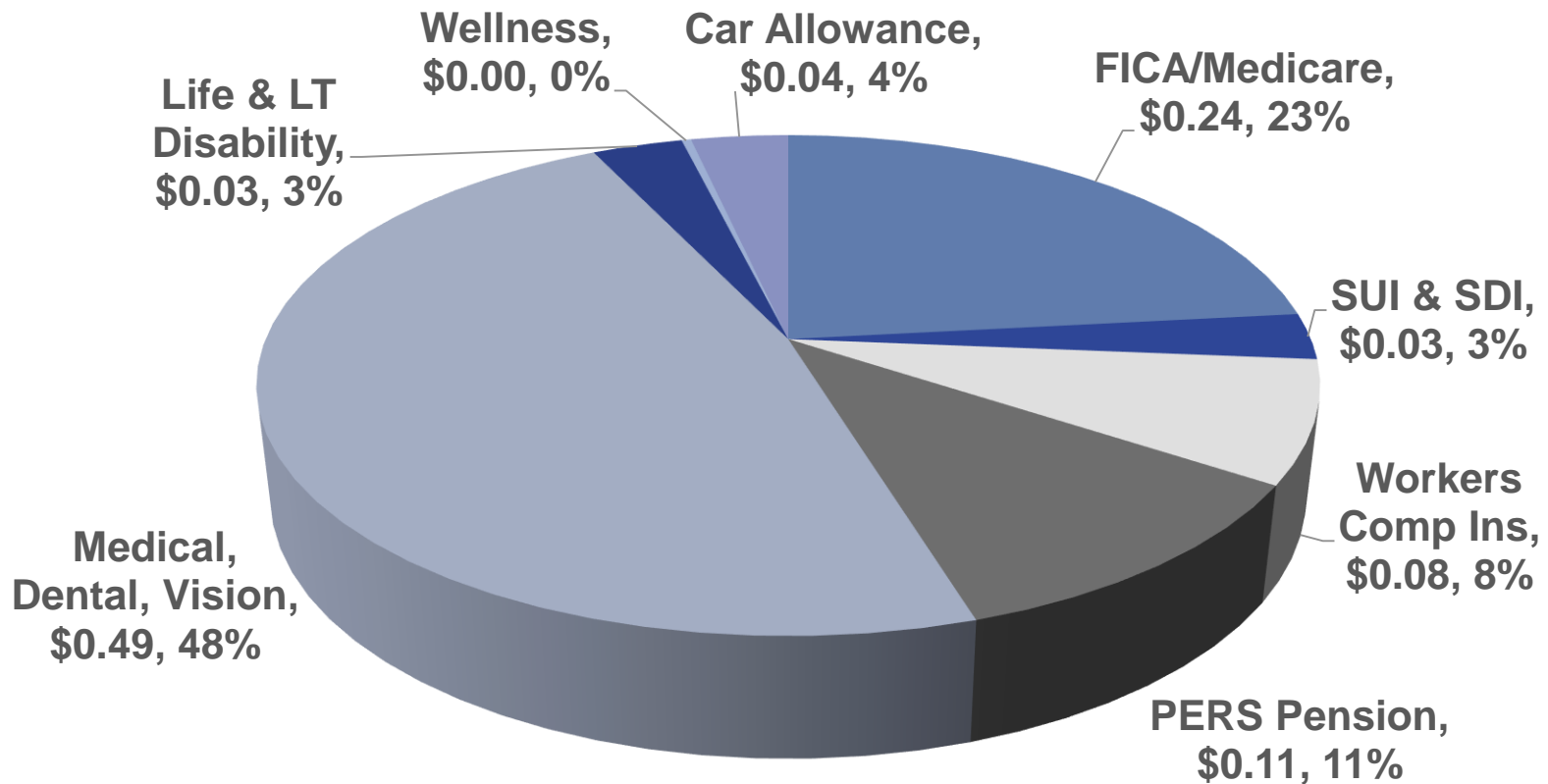
FYE	Benefits	Payroll	Total	% Change
2015	\$1,107,707	\$2,642,113	\$3,749,820	3.7%
2016 *	1,228,101	2,912,184	4,140,285	10.4%
2017 **	1,441,728	3,323,389	4,765,117	15.1%
2018	1,569,289	3,592,414	5,161,703	8.3%
2019	1,686,262	3,859,112	5,545,374	7.4%

* Hired Project Manager in February 2016

** 2017 numbers are budgeted not actual, hired QC Manager in Sept 2016

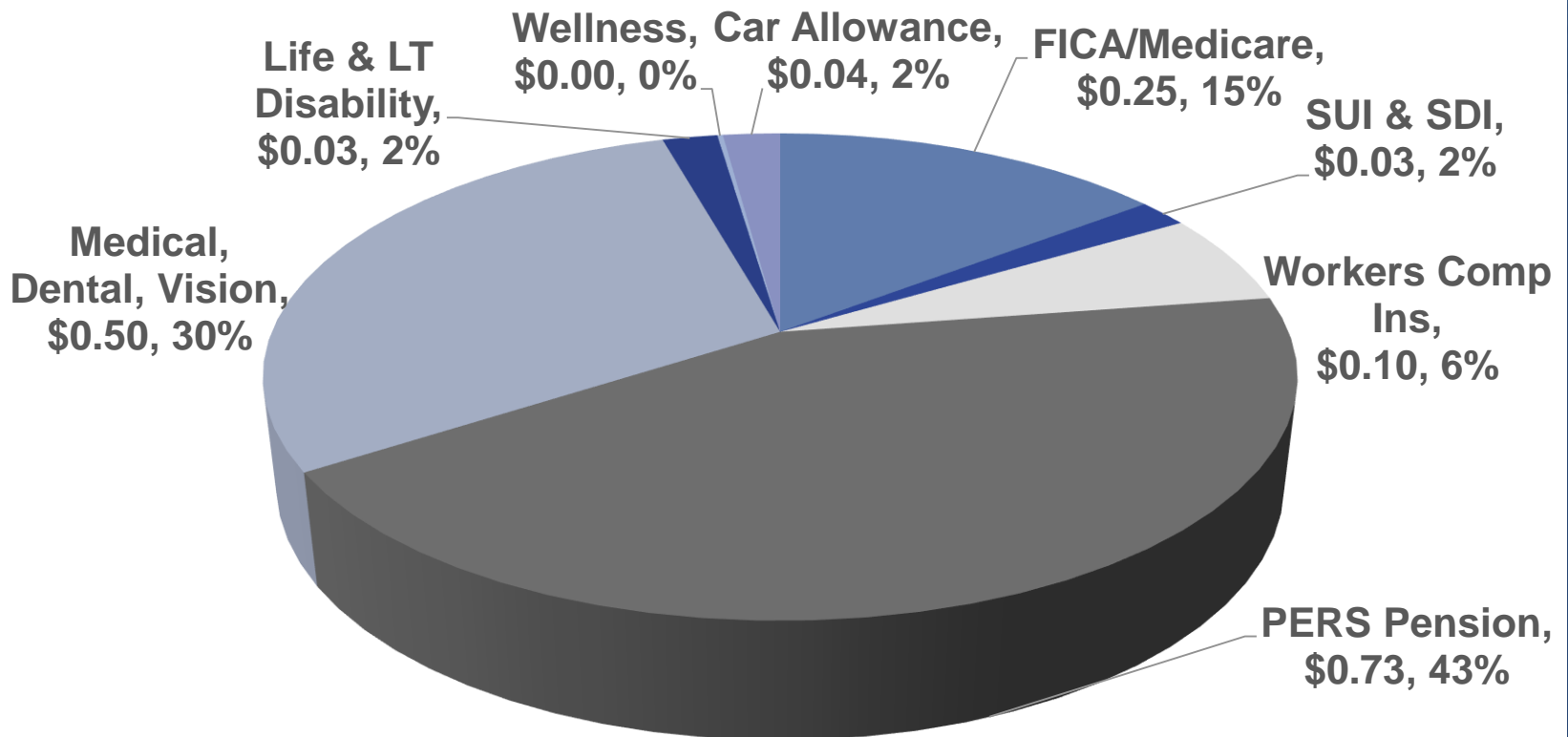
Benefit Costs – FYE 2018

Total Benefits \$1.6 M



Benefit Costs – FYE 2019

Total Benefits \$1.7 M





Benefit & Indirect Cost Allocation Rates

FYE	Benefits	Indirect Cost	Total
2015	0.419%	1.494%	1.913%
2016	0.422%	1.651%	2.073%
2017	0.434%	1.579%	2.013%
2018	0.437%	1.411%	1.848%
2019	0.437%	1.411%	1.848%



Member Contributions

FYE	Per Member Agency	Inc/(Dcr) Over Prior Year	Total
2015	\$339,090	\$8,723	2.64%
2016	269,559	(69,531)	(20.51%)
2017	287,861	18,302	6.79%
2018	288,423	562	0.20%
2019	294,339	5,916	2.05%



Member Contributions per Agency

Activity	FYE 2017	FYE 2018	FYE 2019
General Planning	\$70,000	\$71,200	\$71,200
USBR Partnership Studies	4,000	4,000	4,000
Watershed Management (OWOW)	60,000	80,000	85,000
SA River Fish Conservation	2,000	2,000	2,000
Stormwater Quality Standards TF	10,000	0	0
LESJWA Management	2,000	2,000	2,000
State/Federal Lobbying	49,861	39,223	40,139
General Fund	90,000	90,000	90,000
Total Agency Contribution	\$287,861	\$288,423	\$294,339



Grant/Technical Writer Position

- Salary & Benefit Cost of Grant/Technical Writer
 - FYE 2018 = \$152,411
 - FYE 2019 = \$163,526
- Cost of Consultant for Grant and Technical Writer
 - 1,400 hours per year (based on Strategic Assessment)
 - Average hourly rate based on consultant inquiry
\$164/hour
 - Cost per year = \$229,600



Overall Budget Impact of New Position Versus Consultant – FYE 2018

	With Position	With Consultant	Difference
Total Salaries	\$3,592,414	\$3,480,573	\$111,841
Total Benefits	1,569,289	1,528,719	40,570
Benefit Rate	43.7%	43.9%	(0.20%)
General Fund Costs	3,400,725	3,359,314	41,411
Total Project Labor Costs	2,091,516	2,010,862	80,654
Indirect Rate	1.411	1.447	(0.036%)
Member Agency Contributions	\$288,423	\$293,243	(4,820)



Overall Budget Impact of New Position Versus Consultant – FYE 2019

	With Position	With Consultant	Difference
Total Salaries	\$3,859,112	\$3,738,826	\$120,286
Total Benefits	1,686,262	1,643,022	43,240
Benefit Rate	43.7%	43.9%	(0.20%)
General Fund Costs	3,571,569	3,529,448	42,121
Total Project Labor Costs	2,212,970	2,128,538	84,432
Indirect Rate	1.411	1.447	(0.036%)
Member Agency Contributions	\$294,339	\$298,362	(4,023)



Indirect Rate Calculation – FYE 2018

	With Position	With Consultant
General Fund Costs	3,400,725	3,359,314
Less Member Agency Contributions	(450,000)	(450,000)
Indirect Costs for Distribution	2,950,725	2,909,314
Divided by Total Project Labor Costs	2,091,517	2,010,862
Indirect Rate	1.411	1.447



Indirect Rate Calculation – FYE 2019

	With Position	With Consultant
General Fund Costs	3,571,569	3,529,448
Less Member Agency Contributions	(450,000)	(450,000)
Indirect Costs for Distribution	3,121,569	3,079,448
Divided by Total Project Labor Costs	2,212,970	2,128,538
Indirect Rate	1.411	1.447



CalPERS Retirement UAL

Unfunded Accrued Liability (UAL) at 06/30/17 = \$2,713,583

Payment Date	30 year Amortization	20 year Amortization	15 year Amortization
06/30/17	\$140,237	\$204,890	\$248,753
06/30/18	172,163	211,037	256,216
06/30/19	205,879	217,368	263,902
06/30/20	219,491	223,889	271,819
06/30/21	236,631	230,606	279,974
06/30/22	243,729	237,524	288,373
06/30/23	251,041	244,650	297,024

Information is based on the 2015 PERS Valuation

UAL Balance at 06/30/17

Reason for Base	Date Established	Amortization Period	Balance 06/30/17	Payment 2017-18
Share of Pre-2013 Pool UAL	06/30/13	20	\$1,002,363	\$75,684
Asset (Gain)/Loss	06/30/13	28	1,510,135	60,907
Non-Asset (Gain)/Loss	06/30/13	28	(14,517)	(586)
Asset (Gain)/Loss	06/30/14	29	(1,180,625)	(32,258)
Assumption Change	06/30/14	19	728,212	27,078
Non-Asset (Gain)/Loss	06/30/14	29	1,257	34
Asset (Gain)/Loss	06/30/15	30	723,826	10,181
Non-Asset (Gain)/Loss	06/30/15	30	(57,068)	(803)
Total			\$2,713,583	\$140,238



UAL Balance at 06/30/17

Reason for Base	Balance at 06/30/17
Projected UAL @ 06/30/17	\$2,713,583
Change in UAL from discount rate change	1,066,223
Asset loss for the 2016-17 fiscal year *	850,000
UAL @ 06/30/17	\$4,629,806
Estimated payment @ 20-year amortization	\$335,727
Increase from 2015 Valuation	\$130,837
Increase % from 2015 Valuation	63.9%
Additional Amount Needed from Budget	\$194,490
Additional per Member Agency Contribution	\$39,098

* Actual return for FY 2016-17 was 0.60% compared to 7.00%



OPEB Unfunded Actuarial Accrued Liability

- Actuarial Valuation required every two years
- Last valuation was 07/01/15 for FYE 2016

	July 1, 2015
Discount Rate	6.73%
Actuarial Accrued Liability	\$1,531,845
Actuarial Value of Assets	(967,991)
Unfunded Actuarial Accrued Liability	\$563,854
Plan Participants:	
Active	9
Retirees	5
Total Plan Participants	14



OPEB Unfunded Actuarial Accrued Liability

- Budgeted Annual Required Contribution (ARC) for FYE 2018 and 2019 = \$113,000 per year.
- Because SAWPA pays the ARC we do not have to show the liability on the Statement of Net Assets.
- SAWPA has a Net OPEB Asset of \$478,046 as of 06/30/16.
- SAWPA uses the California Employers' Retiree Benefit Trust Fund (CERBT) to administer the plan.



Questions?

Social Media Services Your So Cal Tap Water

Emerging Constituents Task Force

Year-end Evaluation June 2017



Emerging Constituent Program Task Force

21 signatories (including all SAWPA member agencies) to Task Force Agreement, but over 250 on email contact list:

- Water Wholesalers
- Water Retailers
- Wastewater Treatment Operators
- Regional Board Staff
- CDPH Staff
- USGS Staff
- Analytical Lab Staff
- NWRI Staff
- Environmental NGOs

Emerging Constituent Program Task Force Participating Task Force Agencies in Outreach

Eastern Municipal Water District	Jurupa Community Services District
Inland Empire Utilities Agency	Yucaipa Valley Water District
City of Riverside	City of Corona
Temescal Valley Water District	City of Redlands
Elsinore Valley Municipal Water District	City of Rialto
Irvine Ranch Water District	Western Riverside Co Regional Wastewater Authority
Colton/San Bernardino Regional Tertiary Treatment and Wastewater Reclamation	

Emerging Constituent Program Task Force

Benefits to Funding Agencies

SAMPLING

- Alternative to new regulation for recharge (cost savings of \$100,000 per year)
- Improved regional evaluation of EC

SOCIAL MEDIA

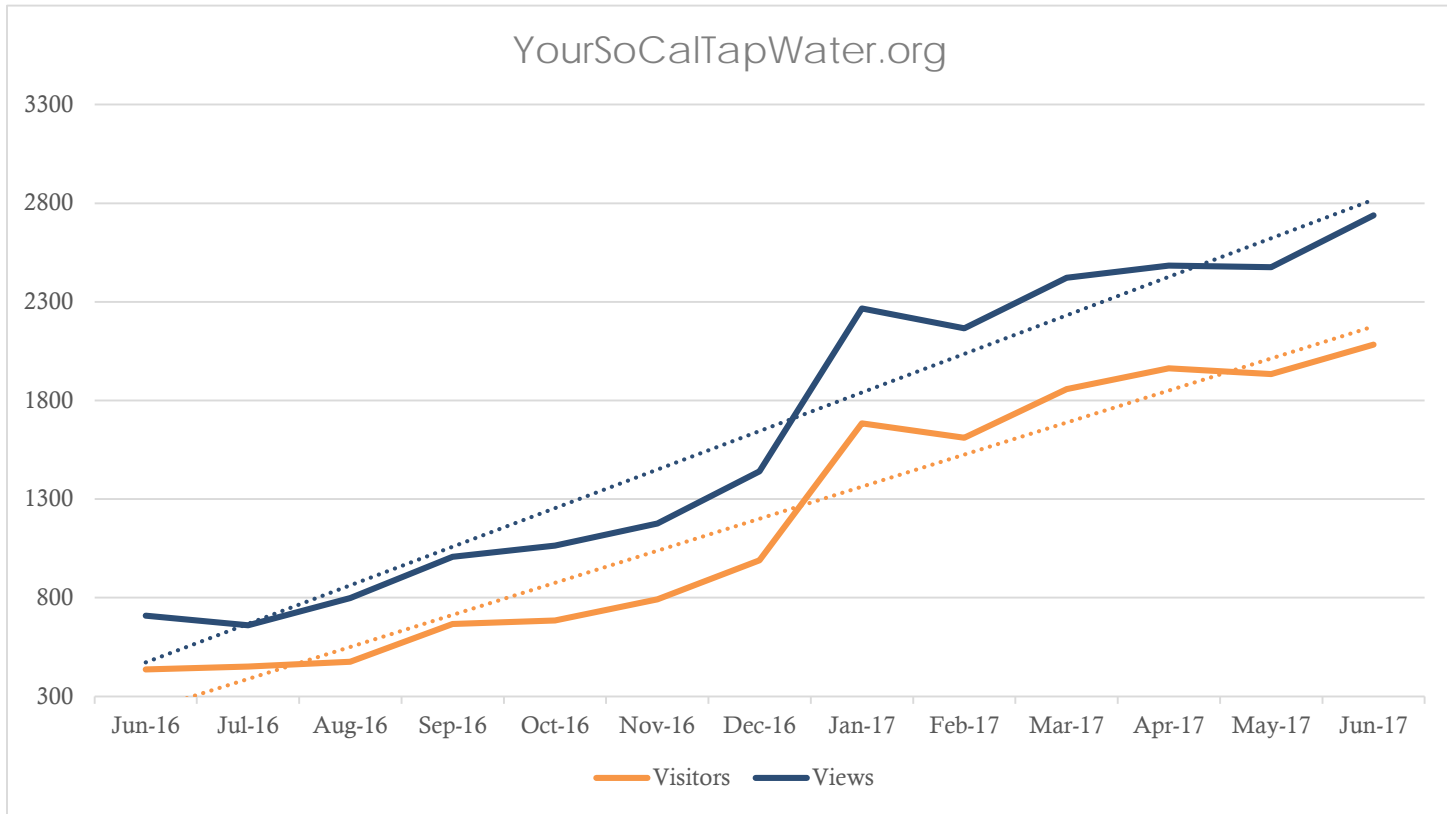
- Build awareness about water related issues
- Share information on safety of local water supply
- Correcting misinformed media exposure through outreach



YourSoCalTapWater.org



YourSoCalTapWater.org



174% increase in visitors over past 6 months

Is Tap Water Safe?

YourSoCalTapWater.org

- 8,986 views



Is Tap Water Safe?

Is tap water safe to drink in Southern California? Is bottled water safer than tap water? Following recent reports of nationwide scandals involving water quality, Americans continue to question the safety of their tap wa...

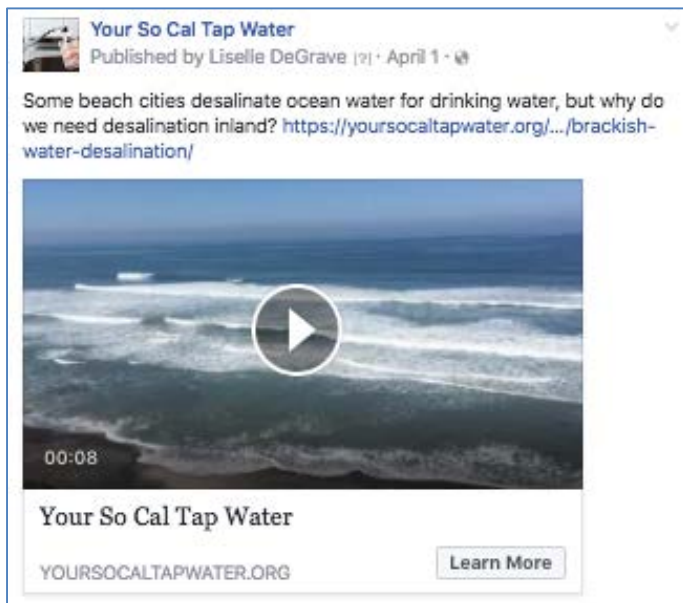
dc

DEGRAVE
COMMUNICATIONS
PUBLIC RELATIONS

Facebook @YourSoCalTapWater



2016-2017 Facebook Post Highlights



1,478 people reached



1,902 people reached



1,539 people reached

Twitter

@SoCalTapWater

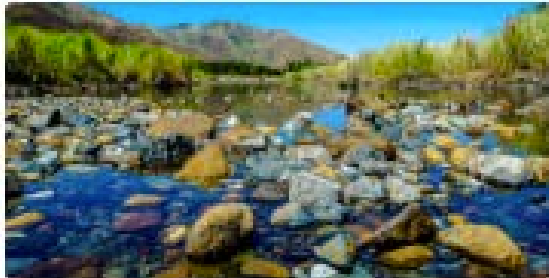


2016-2017 Twitter Top Tweets

Top Tweet earned 15.2K impressions

Recreation and Drinking Water Along the Santa Ana River

yoursocaltapwater.org/2017/06/01/rec...
pic.twitter.com/zMIYWKCIXp



🔗 1

Top media Tweet earned 9,884 impressions

Tap water and children? Should they drink the water that comes from your tap?

ow.ly/OnYK30bKNol
pic.twitter.com/scjBjKCSea



🔗 1 ❤️ 1

Top mention earned 26 engagements



Michael E. Campana
@WaterWired · Sep 10

Via @SoCalTapWater 15 Sept 2016 is 'Imagine a Day Without Water'. How do you #ValueWater? bit.ly/2bMbulx
pic.twitter.com/rIN3MwTSa0

71% of Earth's surface is covered by water. But only 1% is accessible freshwater suitable for human use.

Imagine a Day Without Water
September 15, 2016 | #ValueWater



🔗 1 🗨️ 7 ❤️ 4

dc

DEGRAVE
COMMUNICATIONS
PUBLIC RELATIONS

#ChooseTapWater Campaign

Participating Agencies

- Corona Department of Water & Power
- Eastern Municipal Water District
- Elsinore Valley Municipal Water District
- Inland Empire Utilities Agency
- Irvine Ranch Water District
- Jurupa Community Services District
- San Bernardino Valley Municipal Water District
- Western Municipal Water District
- Yucaipa Valley Water District



Next Steps

- 💧 Continue blog articles
- 💧 Continue social media posts
- 💧 Social media videos



Thank You

dc

DEGRAVE
COMMUNICATIONS
PUBLIC RELATIONS

SAWPA

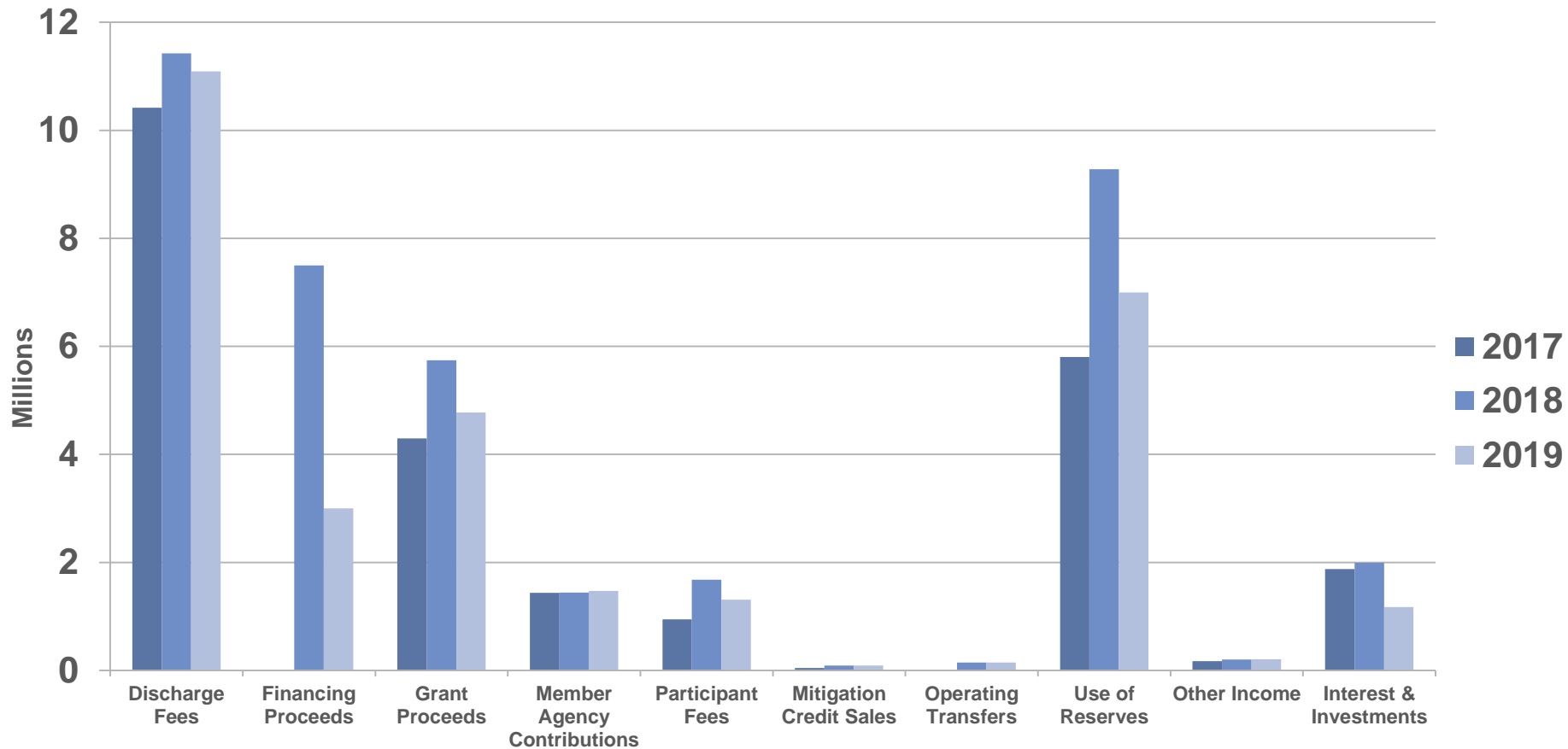
A blue fountain pen with a silver nib is positioned diagonally across the center of the image. The pen is resting on a financial chart that features a line graph and a bar chart. A magnifying glass is positioned on the right side of the chart, focusing on a specific data point. The background is a light blue gradient with a subtle grid pattern. The overall image conveys a sense of financial analysis and budgeting.

FYE 2018 and 2019 Budget



- 1 Combined Budget**
- 2 Budget Detail by Fund Type**
- 3 Assumptions Used**
- 4 Benefit and Indirect Cost Allocations**
- 5 Member Agency Contributions**

Combined Revenues



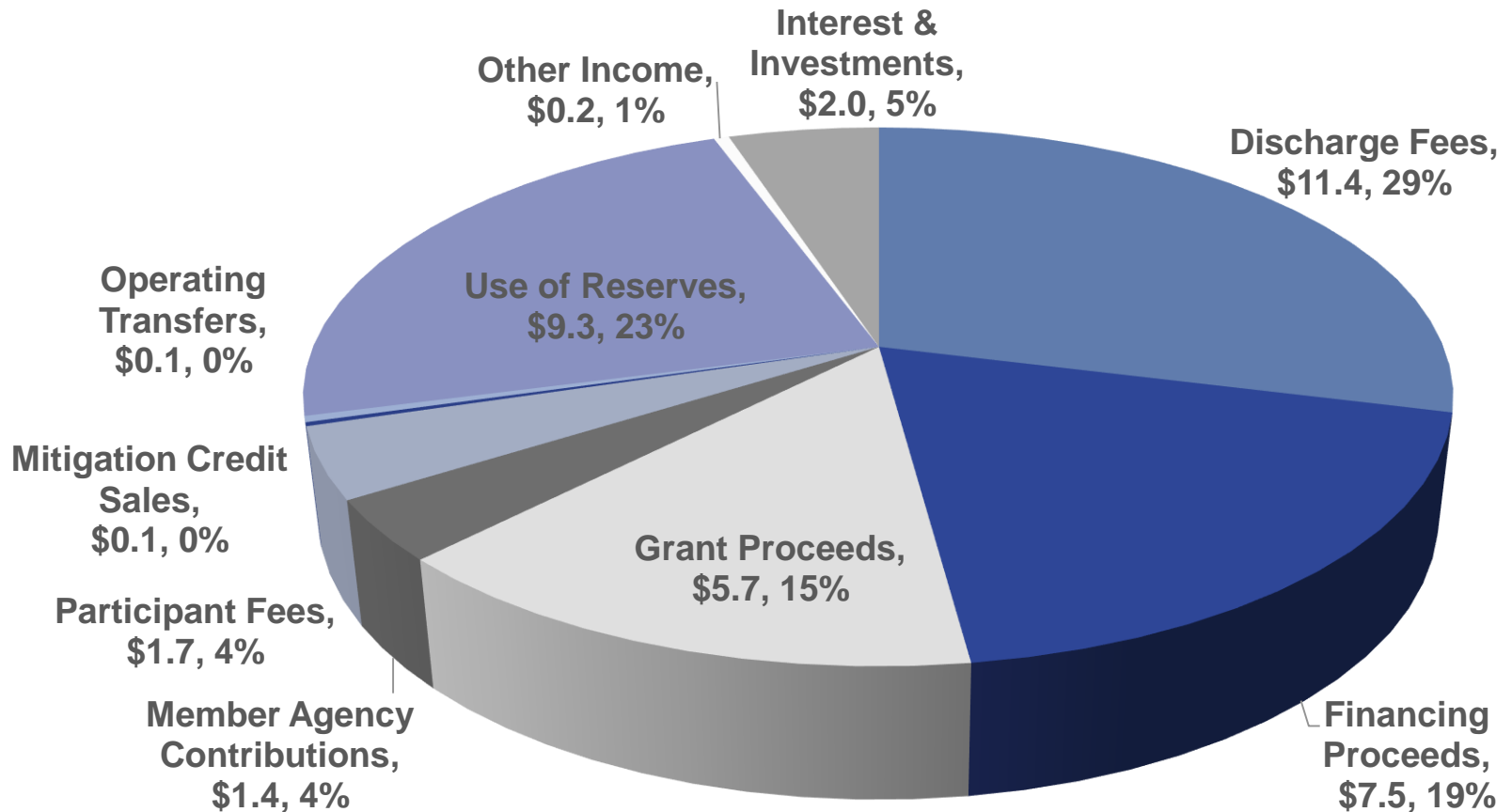


Combined Revenues

Revenue	FYE 2017 Budget	FYE 2018 Budget	%(Inc.)/ Dcr.	FYE 2019 Budget	%(Inc.)/ Dcr.
Discharge Fees	\$10,417,136	\$11,427,616	(10.9%)	\$11,090,587	3.0%
Financing Proceeds	0	7,500,000	(100.0%)	3,000,000	60.0%
Grant Proceeds	4,296,936	5,741,297	(33.6%)	4,777,256	16.8%
Member Agency Contributions	1,439,307	1,442,118	(0.2%)	1,471,695	(2.1%)
Participant Fees	946,878	1,682,056	(77.6%)	1,309,273	22.2%
Mitigation Credit Sales	44,490	88,980	(100.0%)	88,980	0.0%
Operating Transfers	0	144,252	(100.0%)	144,252	0.0%
Use of Reserves	5,805,215	9,280,479	(59.9%)	6,995,901	24.6%
Other Income	171,782	202,027	(17.6%)	206,674	(2.3%)
Interest & Investments	1,878,952	1,994,772	(6.2%)	1,173,582	41.2%
Total	\$25,000,696	\$39,503,596	(58.0%)	\$30,258,199	23.4%

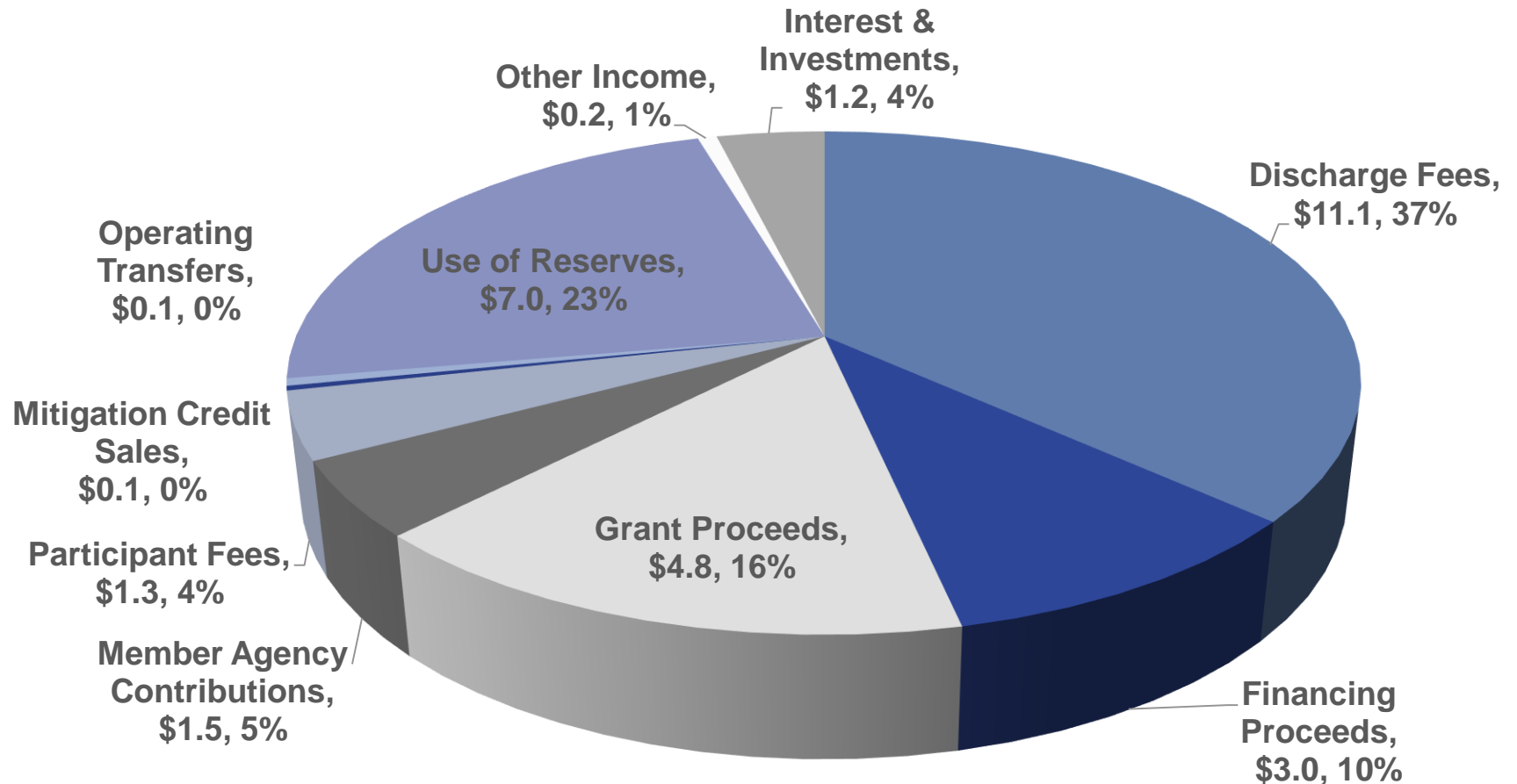
Combined Budget

FYE 2018 Revenues - \$39.5 M

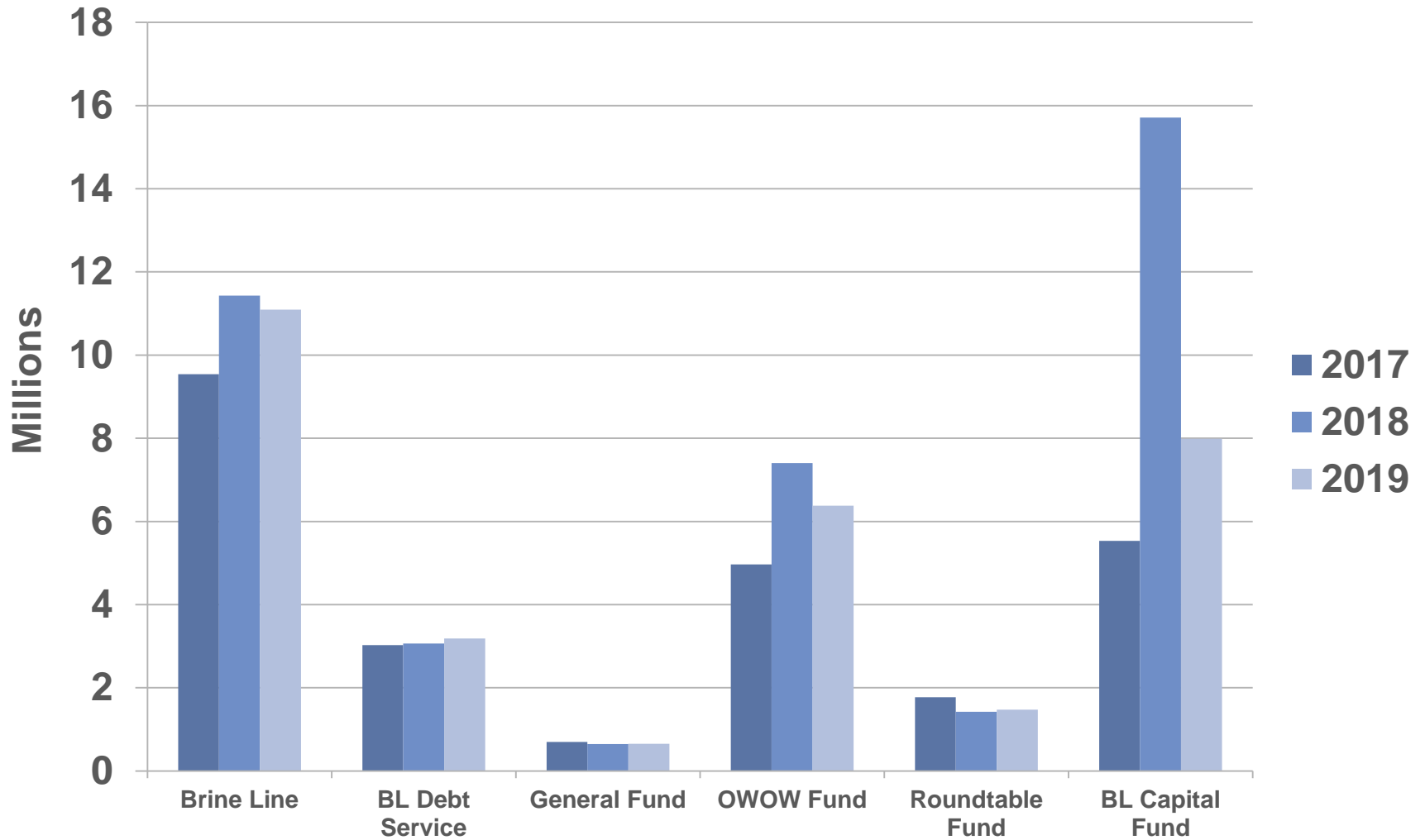


Combined Budget

FYE 2019 Revenues - \$30.3 M



Combined Expenses



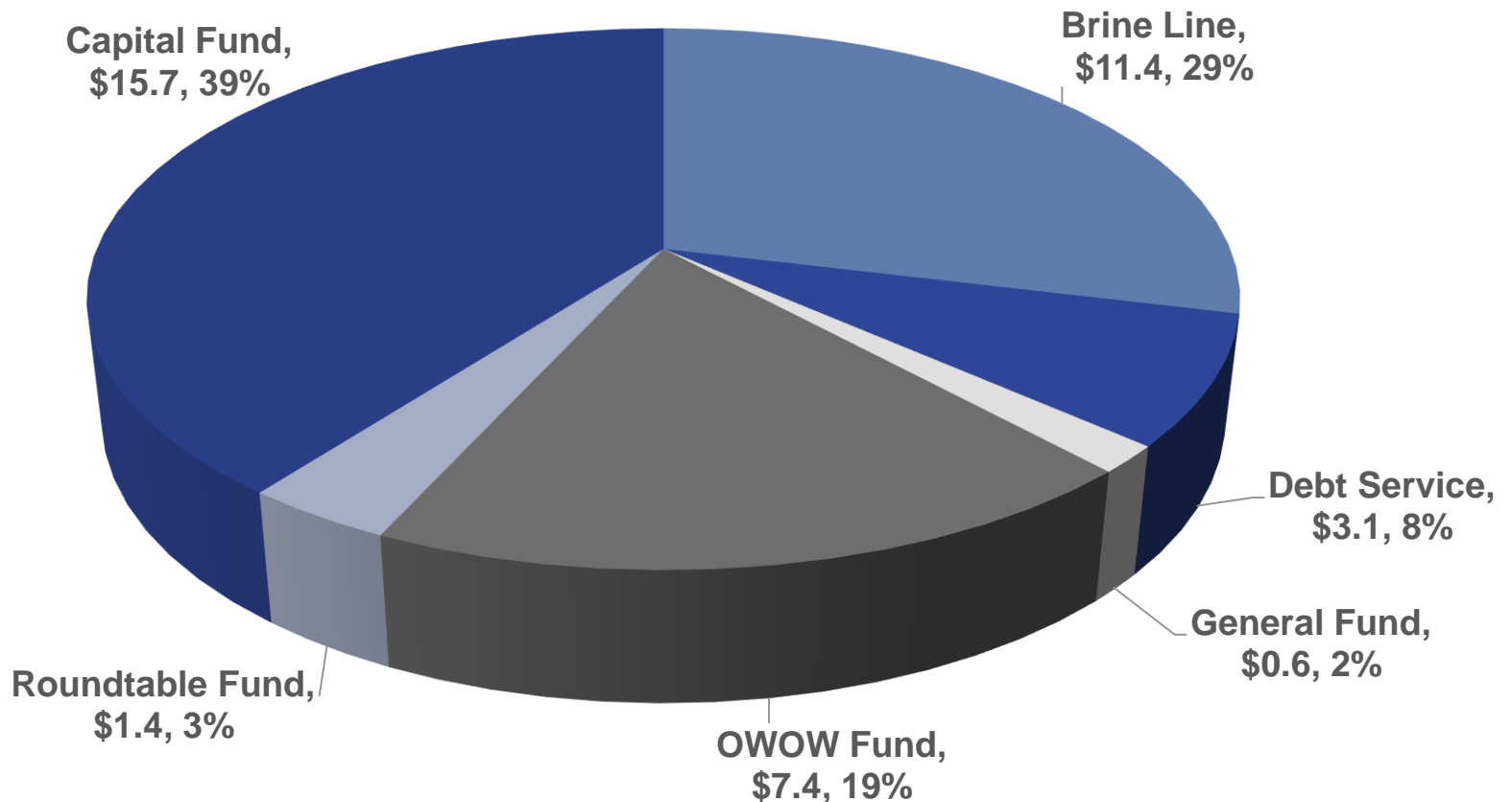


Combined Expenses

Revenue	FYE 2017 Budget	FYE 2018 Budget	%(Inc.)/ Dcr.	FYE 2019 Budget	%(Inc.)/ Dcr.
Brine Line Enterprise Fund	\$9,539,179	\$11,427,616	(19.8%)	\$11,090,587	3.0%
Brine Line Debt Service	3,028,588	3,060,719	(1.1%)	3,183,451	(4.0%)
General Fund	699,307	646,118	7.6%	650,695	(0.7%)
OWOW Fund	4,963,864	7,403,317	(49.1%)	6,380,106	13.8%
Roundtables Fund	1,772,928	1,419,206	20.0%	1,475,981	(4.0%)
BL Capital Fund	5,533,536	15,714,532	(184.0%)	7,986,032	49.2%
Total	\$25,537,400	\$39,671,508	(55.8%)	\$30,766,852	22.4%

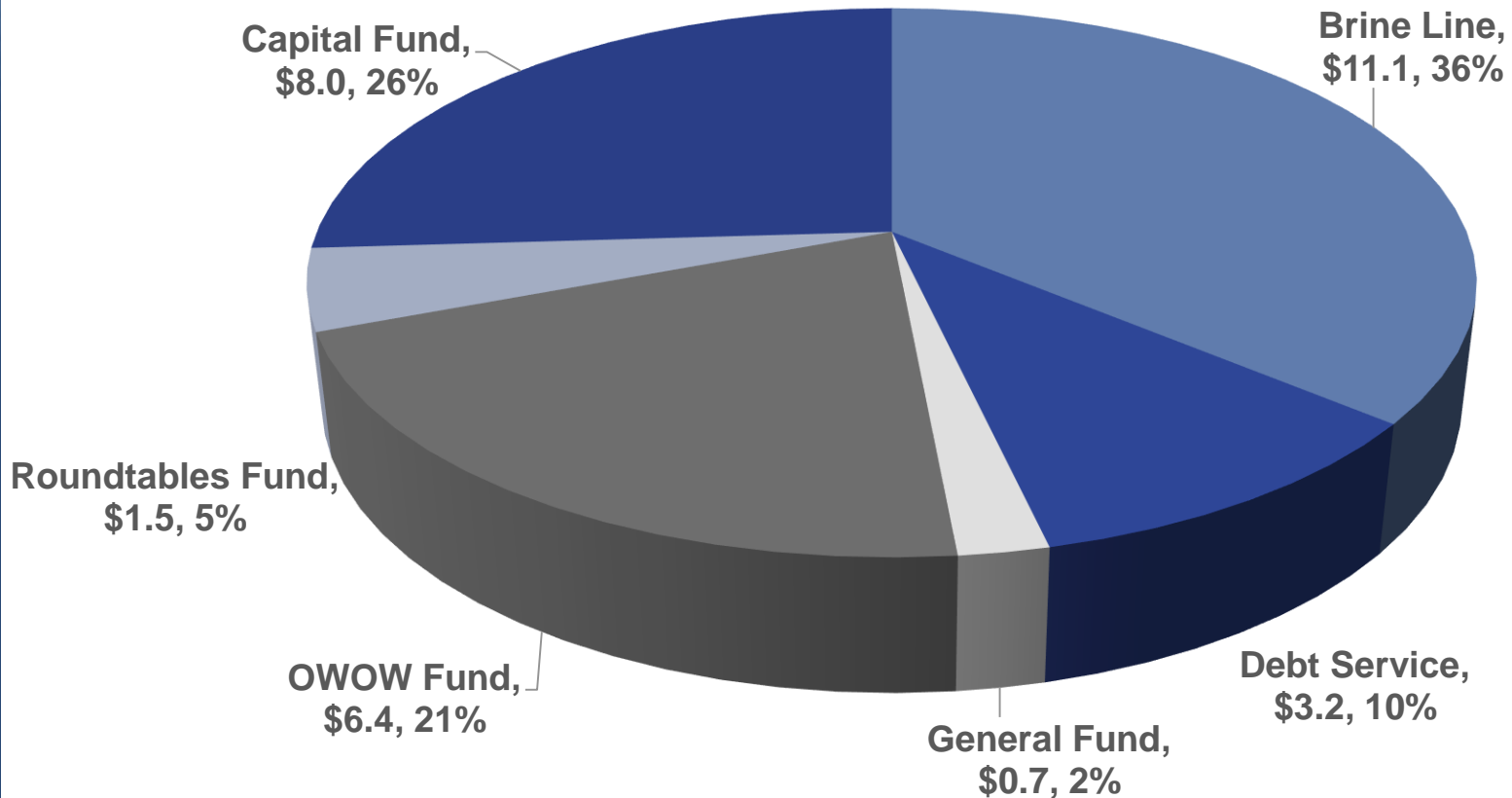
Combined Budget

FYE 2018 Expenses - \$39.7 M



Combined Budget

FYE 2019 Expenses - \$30.8 M





Changes to Budget

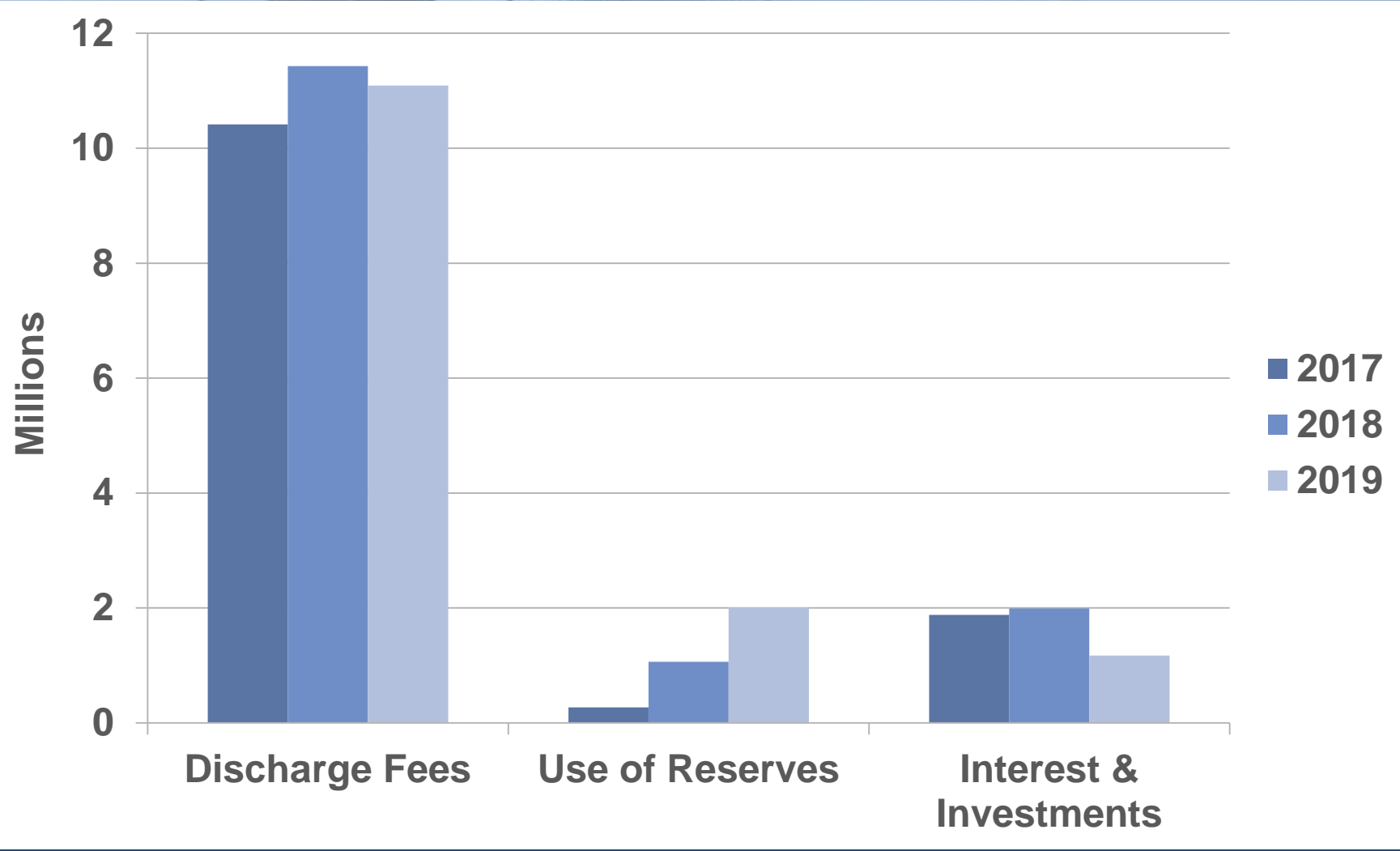
- Changed the BOD rate:
 - FYE 2018 from \$322 to \$307
 - FYE 2019 from \$330 to \$313
- Changed the TSS rate:
 - FYE 2018 from \$450 to \$429
 - FYE 2019 from \$462 to \$438
- Reduced Non-Recurring Costs by \$125K (FYE 2018) and \$130K (FYE 2019)
 - Reduced Consulting by \$40K per year
 - Reduced BL Operating Costs by \$30K (FYE 2018) and \$35K (FYE 2019)
 - Reduced Facility Repair & Maintenance by \$55K per year

A fountain pen with a silver nib and a blue barrel is positioned diagonally across the top of the slide. Below the pen, a document is visible, featuring a line graph with a red line and a blue line. The graph has a grid and labels for months: 'Feb.', 'Apr.', 'Jun.', and 'Aug.'. A magnifying glass is partially visible in the upper right corner, focusing on the document. The background of the slide is a dark blue gradient.

Changes to Budget

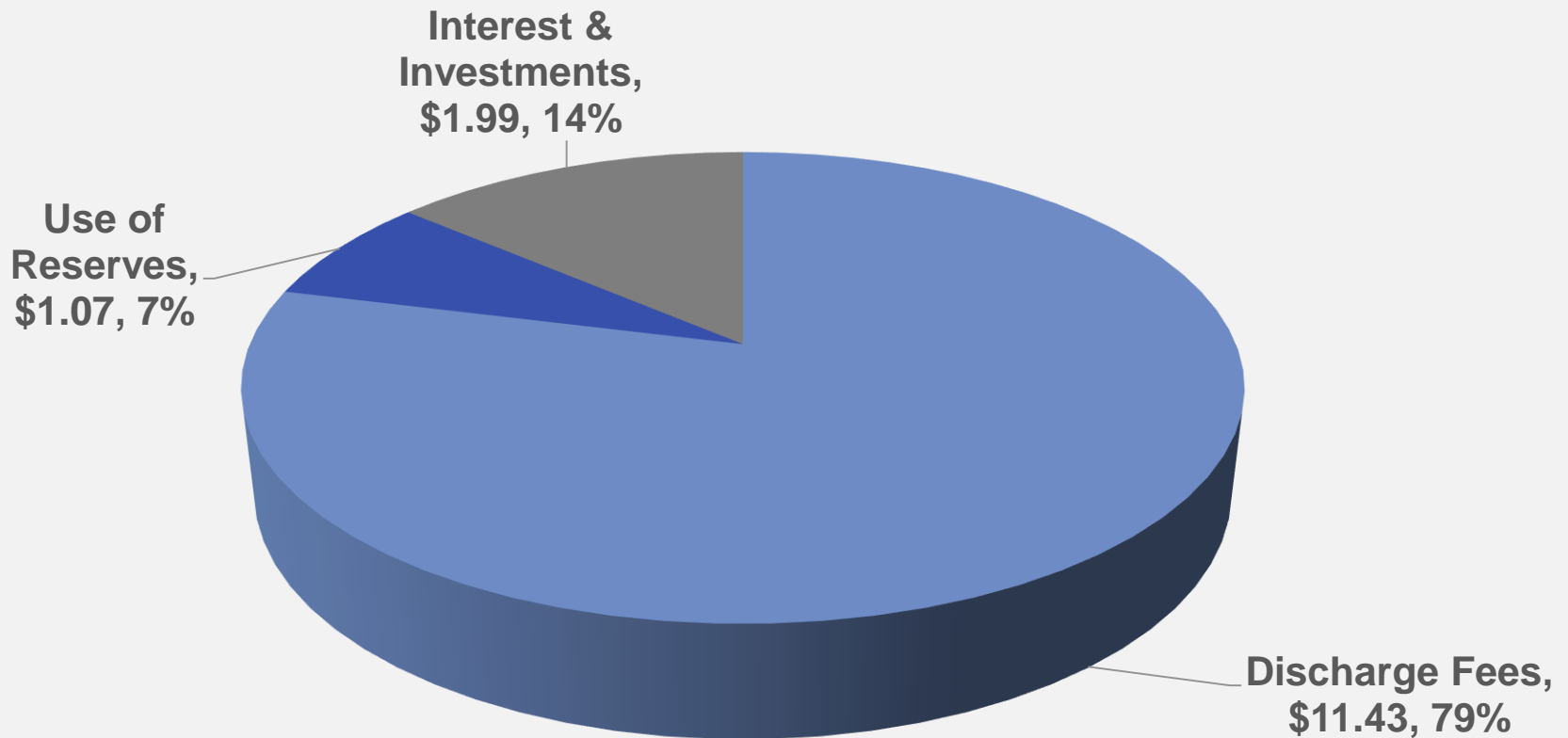
- Increased Reserve Contributions by \$125K (FYE 2018) and \$130K (FYE 2019)
- Revenue change
 - FYE 2018 reduced by \$127,545
 - FYE 2019 reduced by \$118,280
- Expense change
 - FYE 2018 reduced by \$252,545
 - BOD/TSS Costs \$127,545
 - Operating Costs \$125,000
 - FYE 2019 reduced by \$248,280
 - BOD/TSS Costs \$118,280
 - Operating Costs \$130,000

Brine Line Enterprise - Revenue



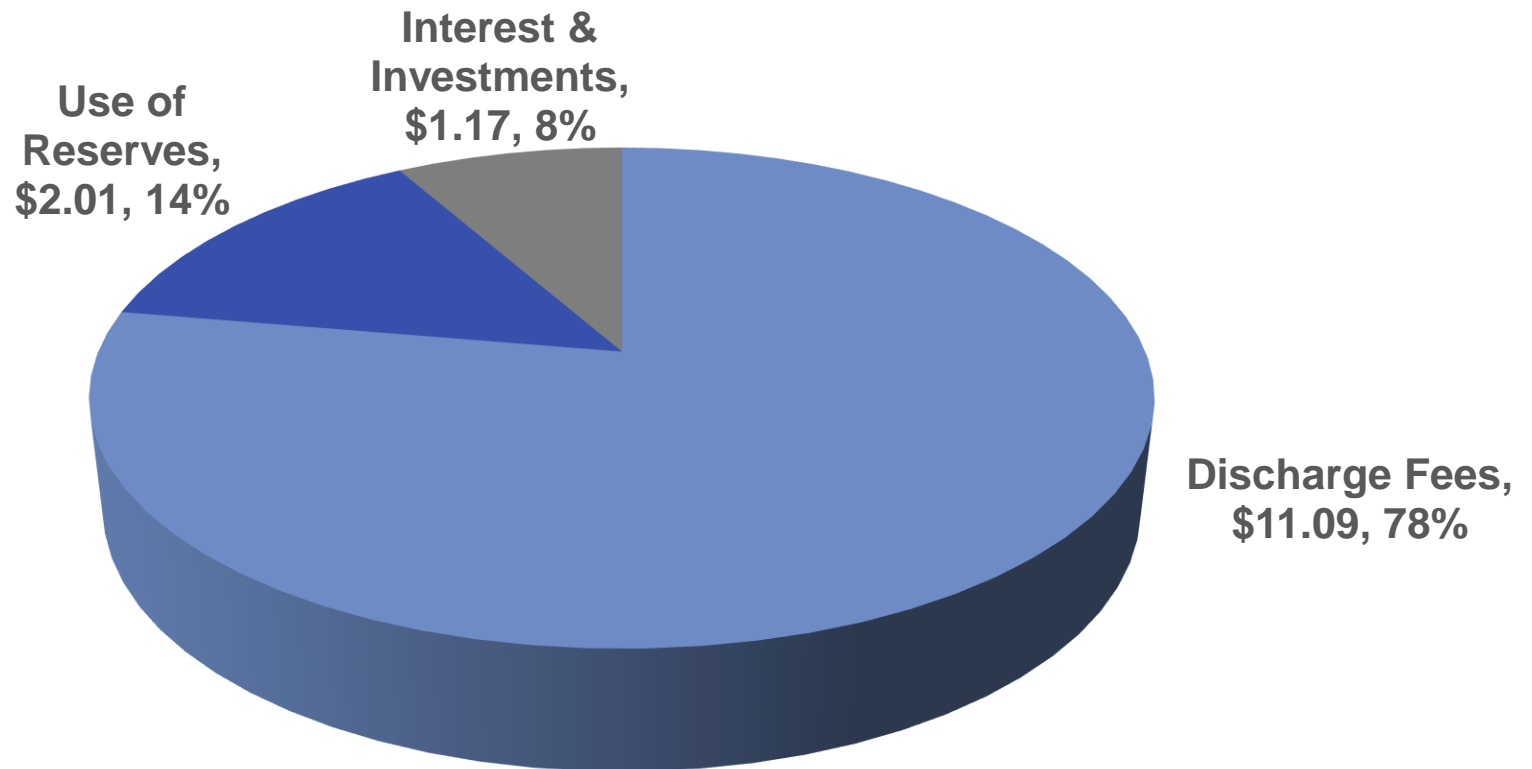
FYE 2018

Brine Line Revenues \$14.49 M

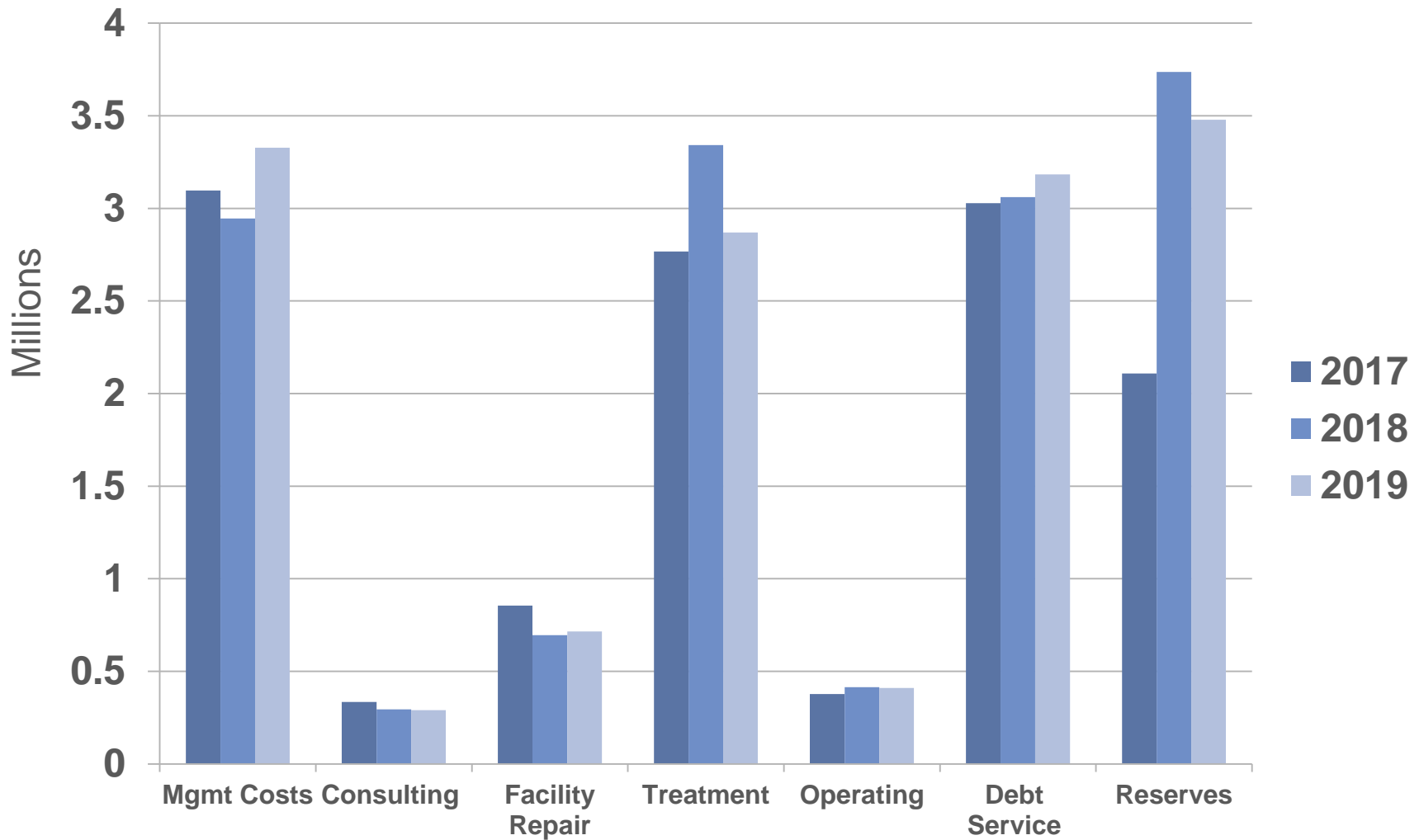


FYE 2019

Brine Line Revenues \$14.27 M

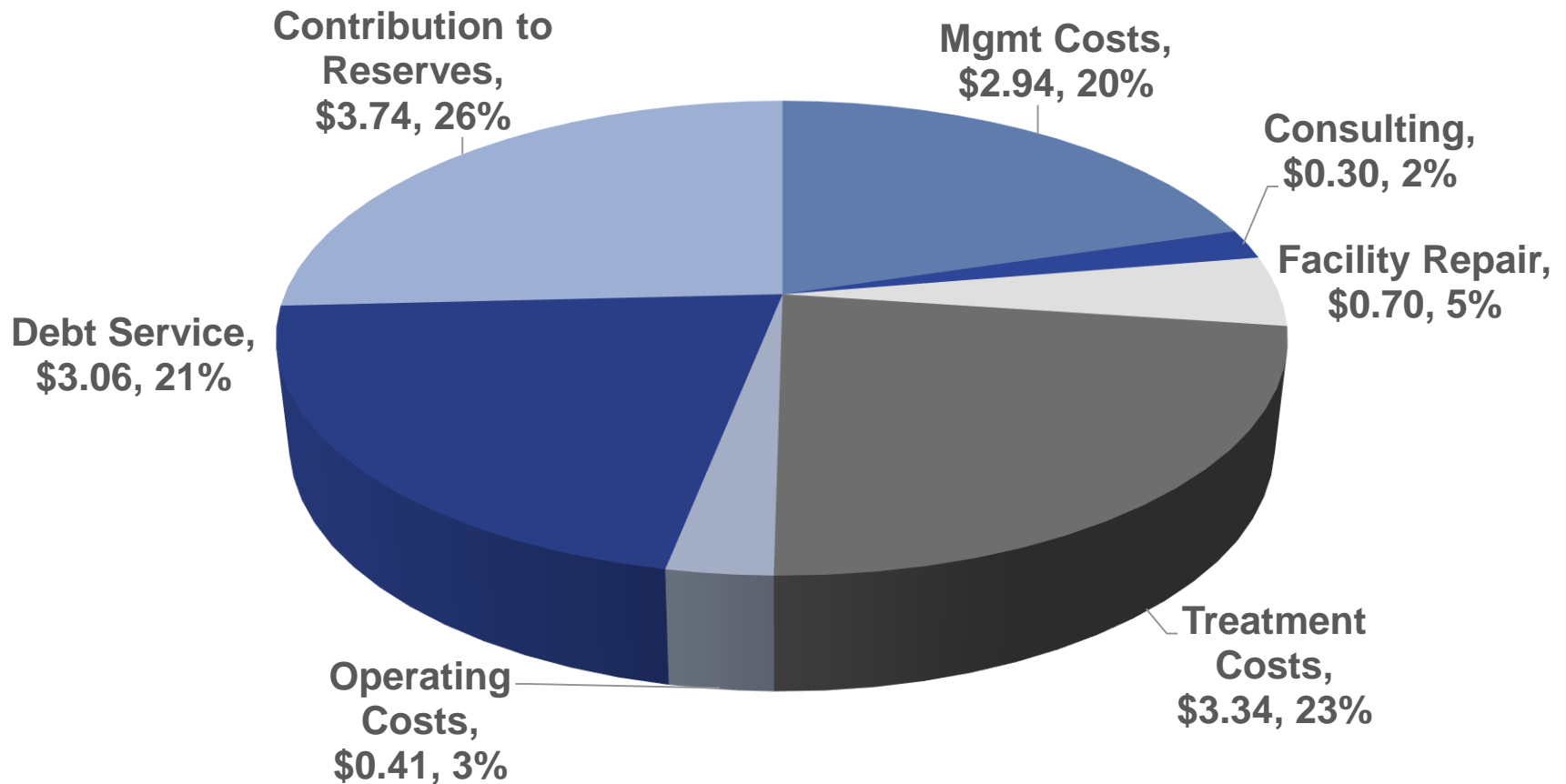


Brine Line Enterprise - Expenses



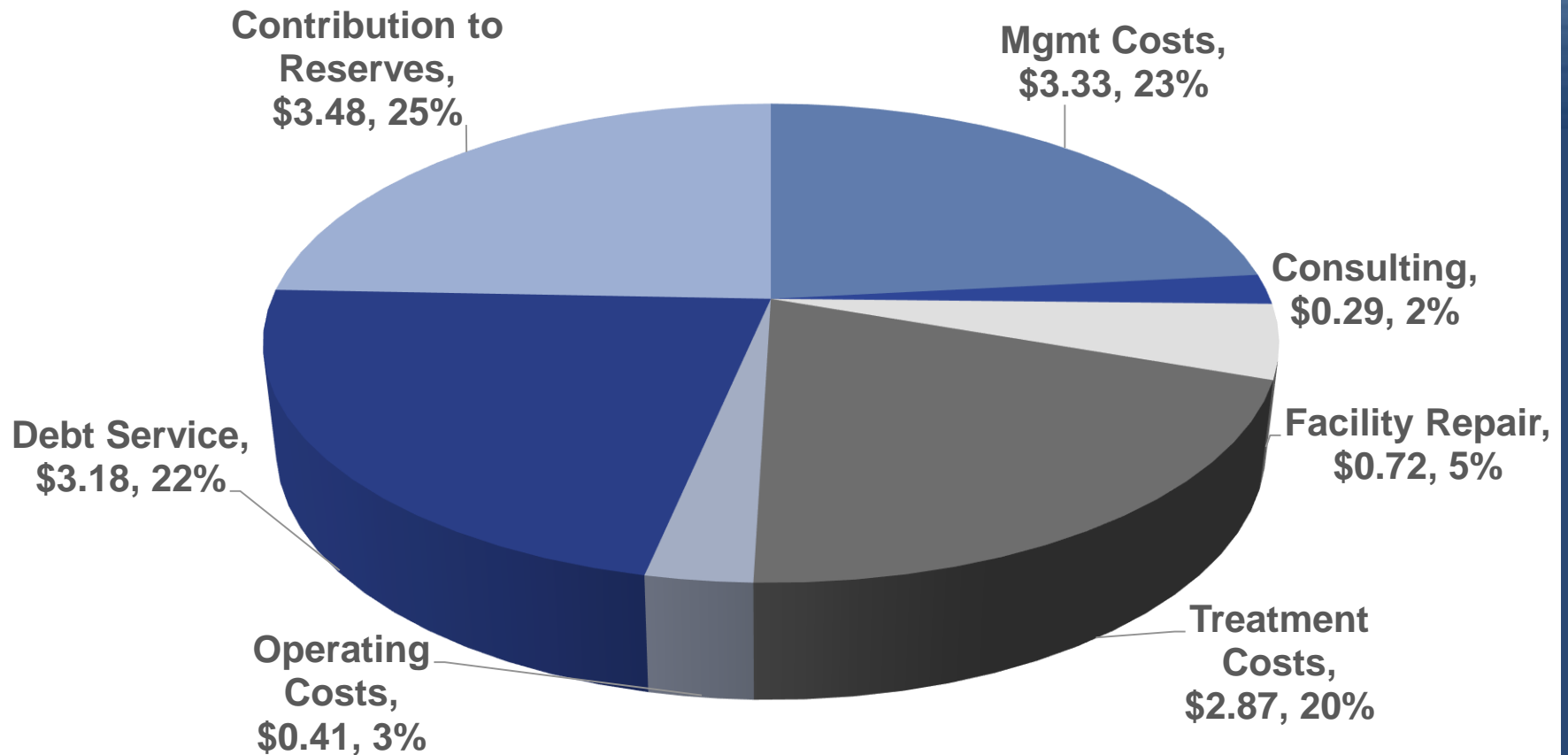
FYE 2018

Brine Line Expenses \$14.49 M



FYE 2019

Brine Line Expenses \$14.27 M





Reserve Contributions

Fund	FYE 2018	FYE 2019
Pipeline Repair/Replacement	\$1,500,000	\$1,500,000
Self Insurance Reserve	100,000	100,000
Debt Service Reserve	2,136,173	1,879,144
Total Contribution to Reserves	\$3,736,173	\$3,479,144



Reserve Transfers – FYE 2018

Fund	From	To
Pipeline Repair/Replacement	\$0	\$5,843,450
OCSD Rehabilitation Reserve	4,000,000	0
Brine Line Operating Reserve	1,843,450	0
Total Contribution to Reserves	\$5,843,450	\$5,843,450



Reserve Balance (EOY)

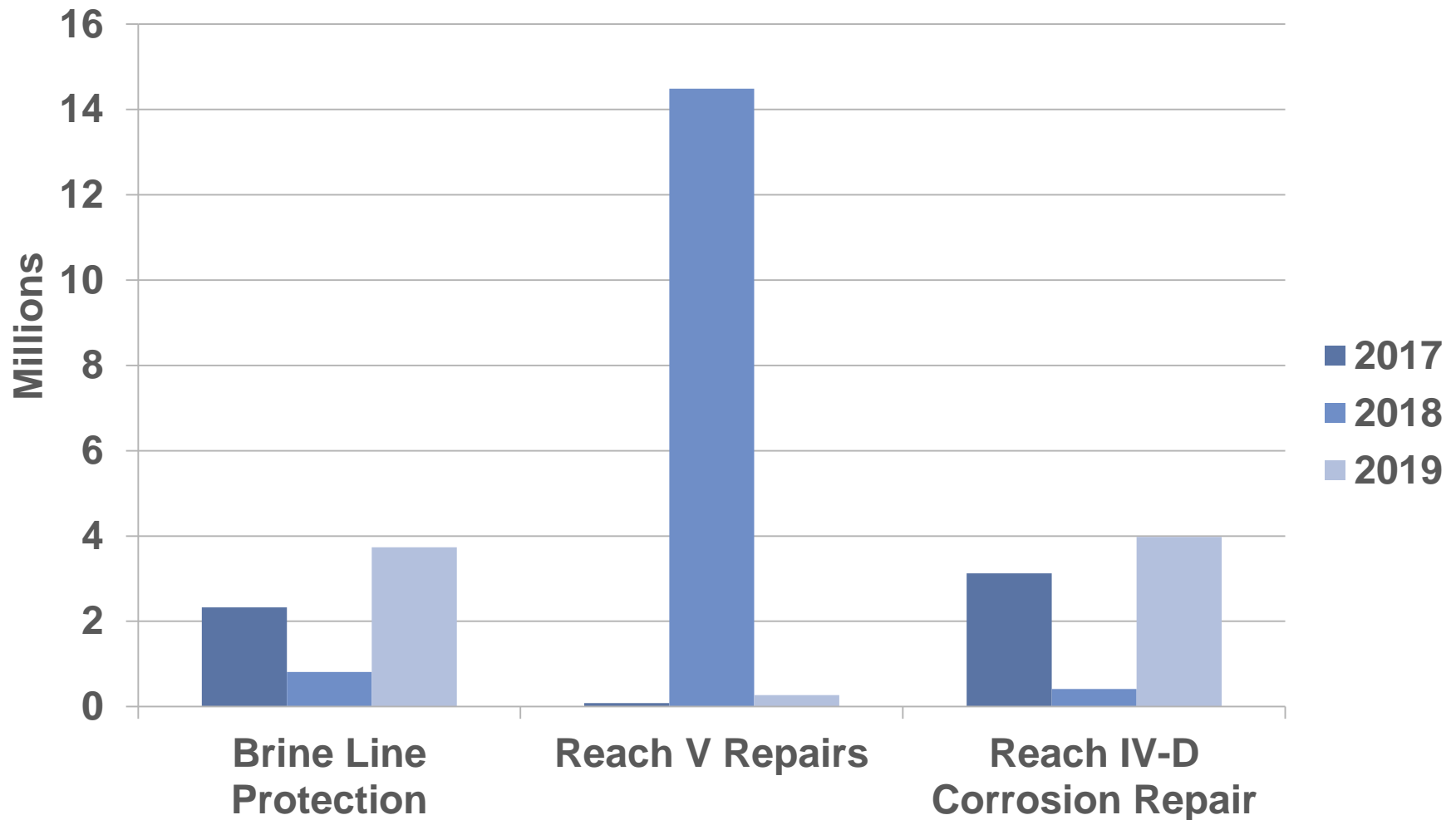
Reserve	FYE 2018	FYE 2019
Pipeline Repair/Replacement	\$13,519,815	\$13,033,783
OCSD Rehabilitation	3,491,290	491,290
OCSD Future Capacity	1,722,932	1,722,932
Self-Insurance Reserve	3,937,788	4,037,788
Flow Imbalance Reserve	83,645	83,645
Debt Service Reserve	4,774,603	2,756,741
Capacity Management	7,815,546	7,815,546
Operating Reserve	2,000,000	2,000,000
Total Reserves	\$37,345,619	\$31,941,726



Proposed Brine Line Rates

Component	Actual FYE 2017	FYE 2018	FYE 2019
Flow	\$858 ^{+5%} →	\$901 ^{+5%} →	\$946
BOD (per 1,000 lbs.)	\$307 ^{+0%} →	\$307 ^{+2%} →	\$313
TSS (per 1,000 lbs.)	\$429 ^{+0%} →	\$429 ^{+2%} →	\$438
Fixed Pipeline	\$5,639 ^{+5%} →	\$5,921 ^{+5%} →	\$6,217
Fixed Treatment	\$11,433 ^{+5%} →	\$12,007 ^{+5%} →	\$12,607

Capital Improvement Projects





Brine Line Protection

Reach V Repairs

Reach IV-D Corrosion Repair

Reserves

SRF Loan

SRF Loan

Reserves

Reserves



Capital Project Funding – FYE 2018

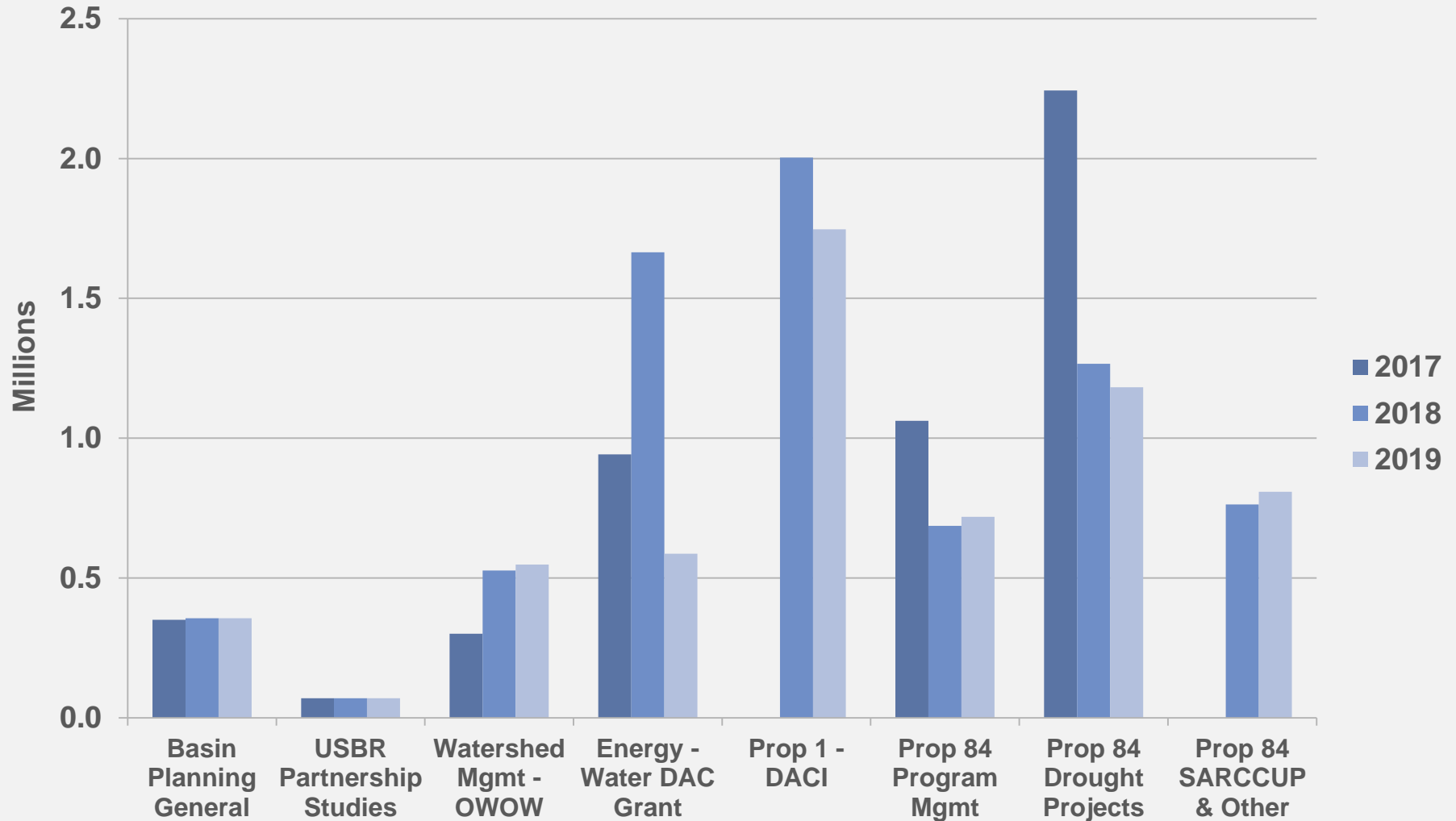
Project	Reserves	SRF Loan	Total
Brine Line Protection	\$812,572	\$0	\$812,572
Reach V Repairs	6,987,574	7,500,000	14,487,574
Reach IV-D Corrosion Repairs	414,386	0	414,386
Total	\$8,214,532	\$7,500,000	\$15,714,532



Capital Project Funding – FYE 2019

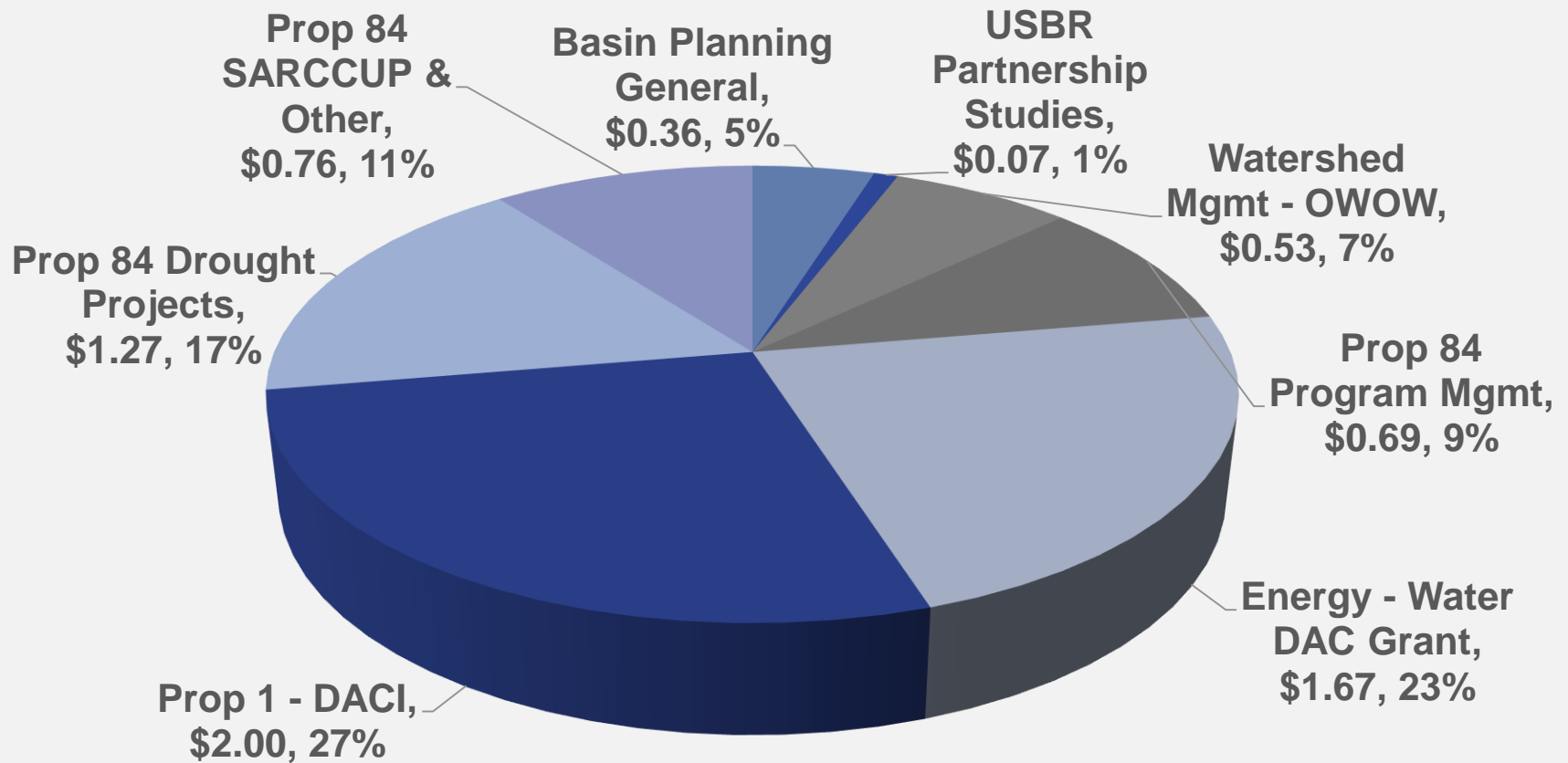
Project	Reserves	SRF Loan	Total
Brine Line Protection	\$3,736,548	\$0	\$3,736,548
Reach V Repairs	269,167	0	269,167
Reach IV-D Corrosion Repairs	980,317	3,000,000	3,980,317
Total	\$4,986,032	\$3,000,000	\$7,986,032

OWOW Funds - Revenues



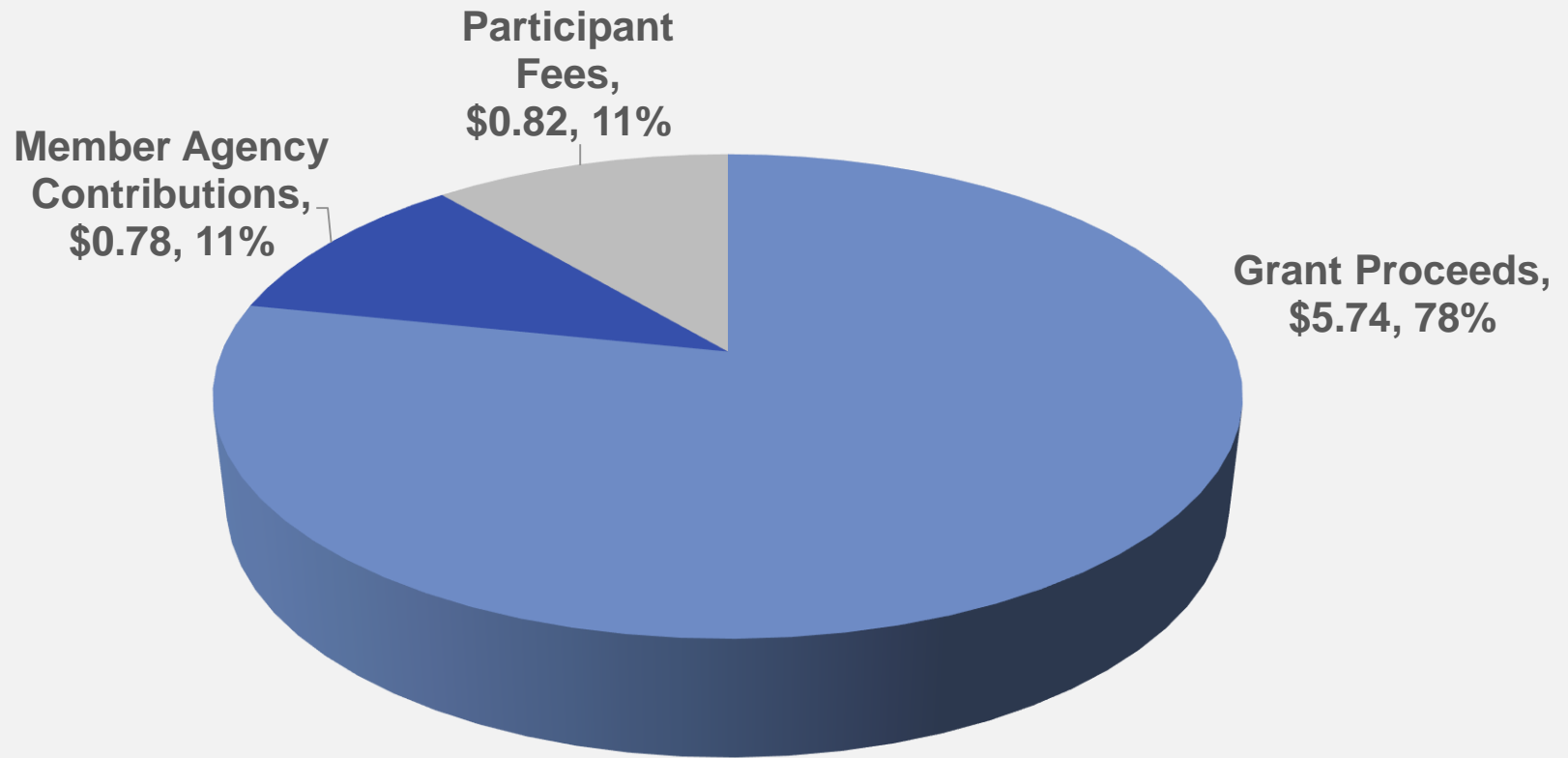
FYE 2018

Revenues \$7.34 M



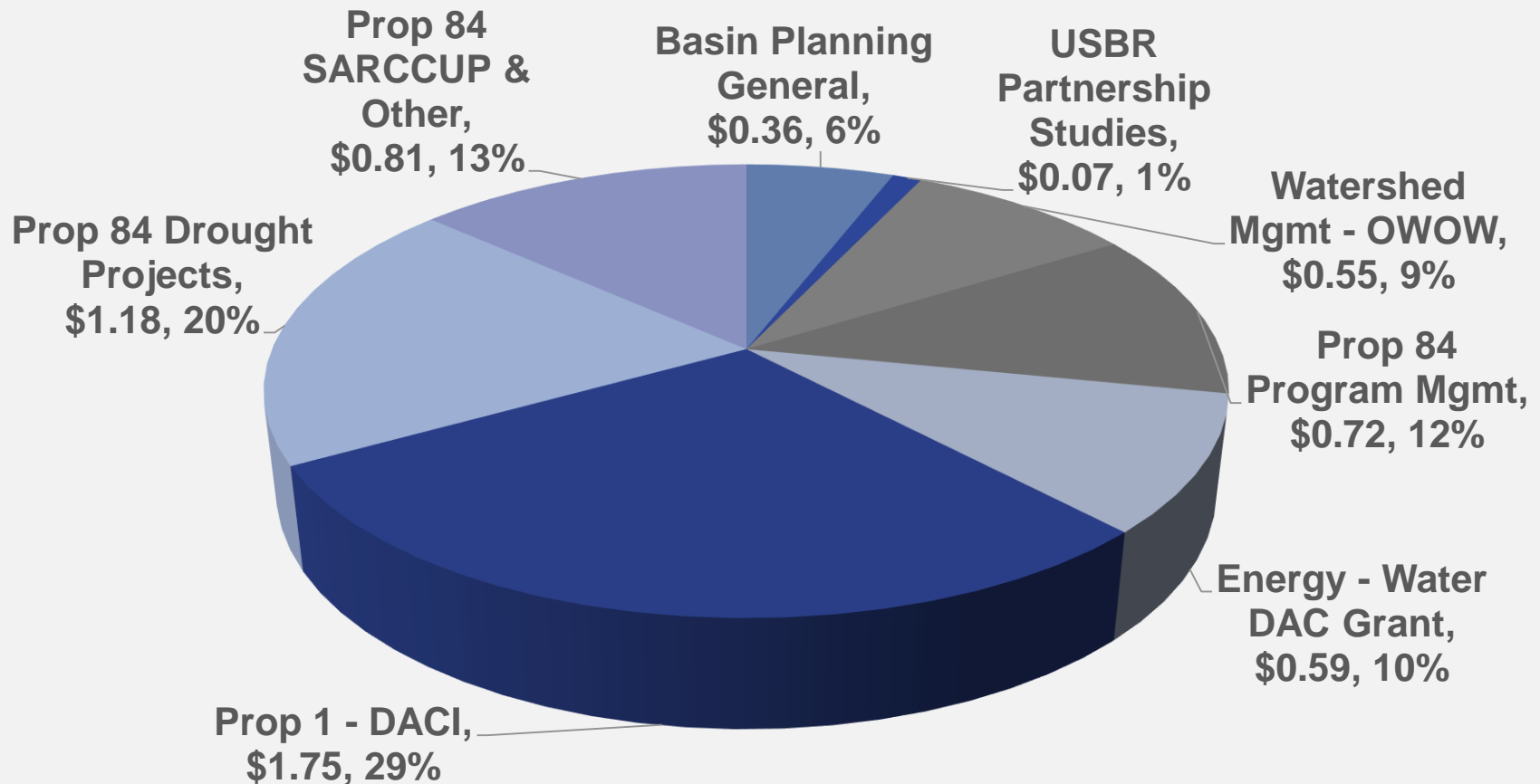
FYE 2018

Revenues \$7.34 M



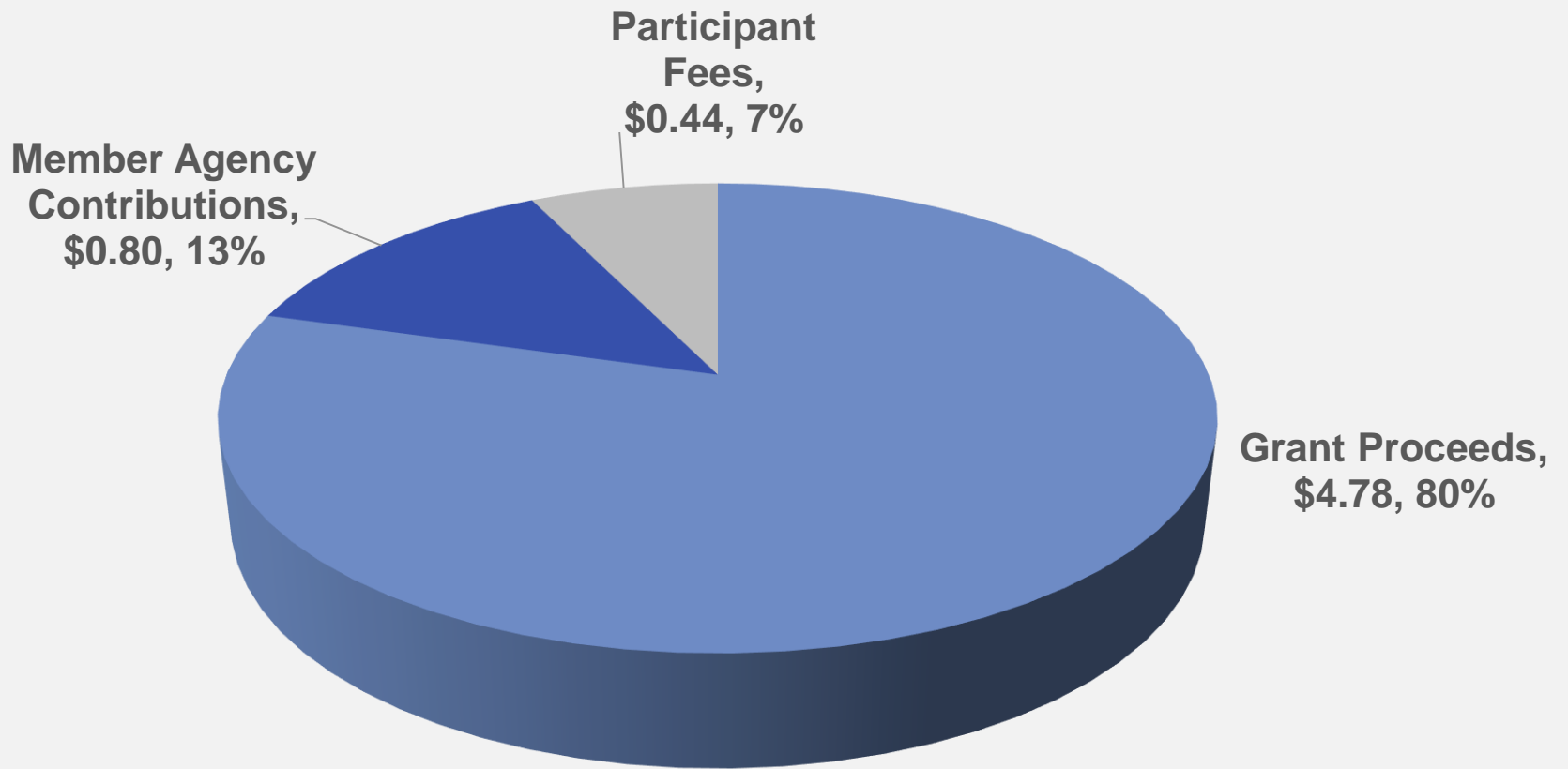
FYE 2019

Revenues \$6.02 M

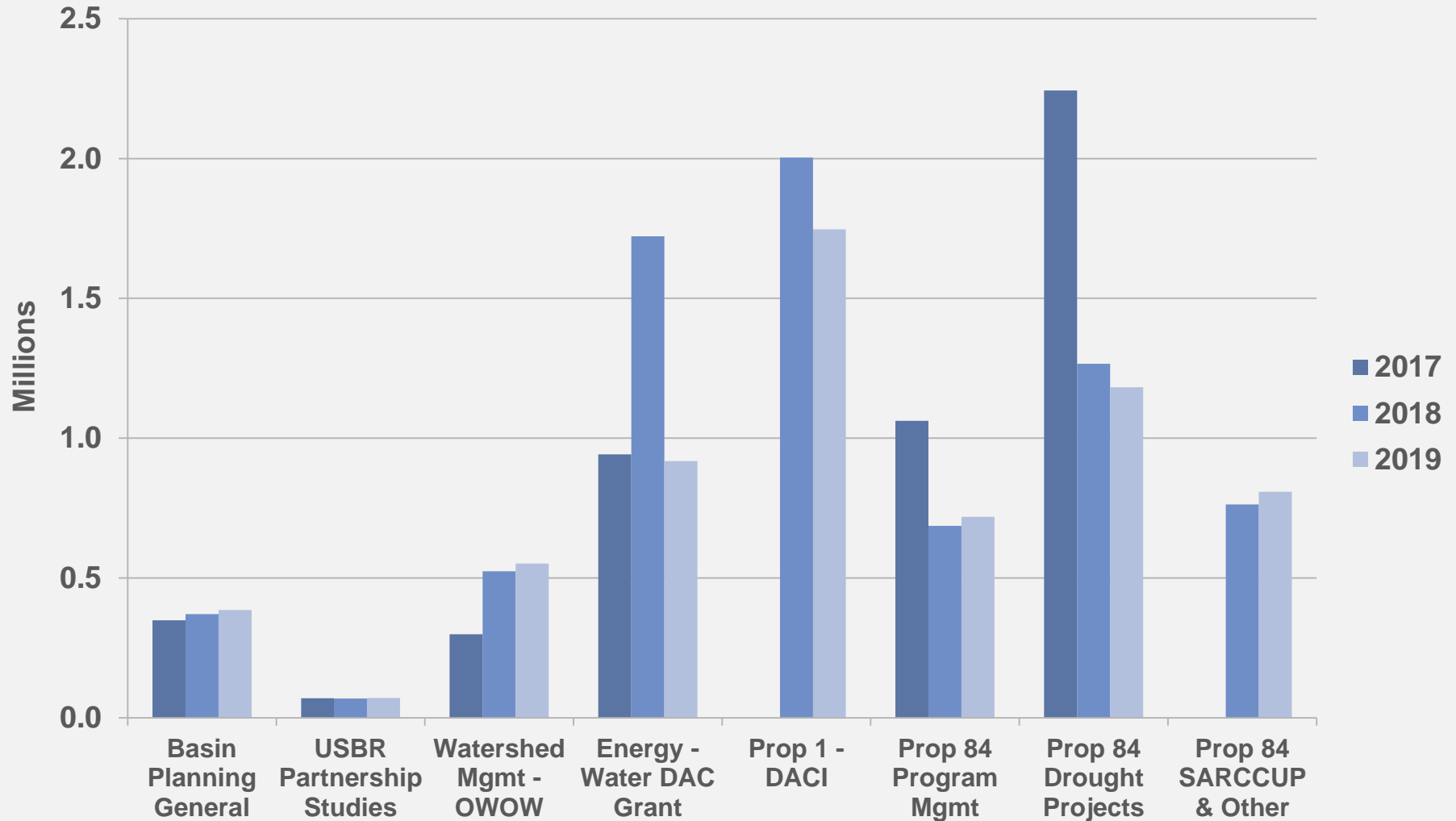


FYE 2019

Revenues \$6.02 M



OWOW Fund - Expenses



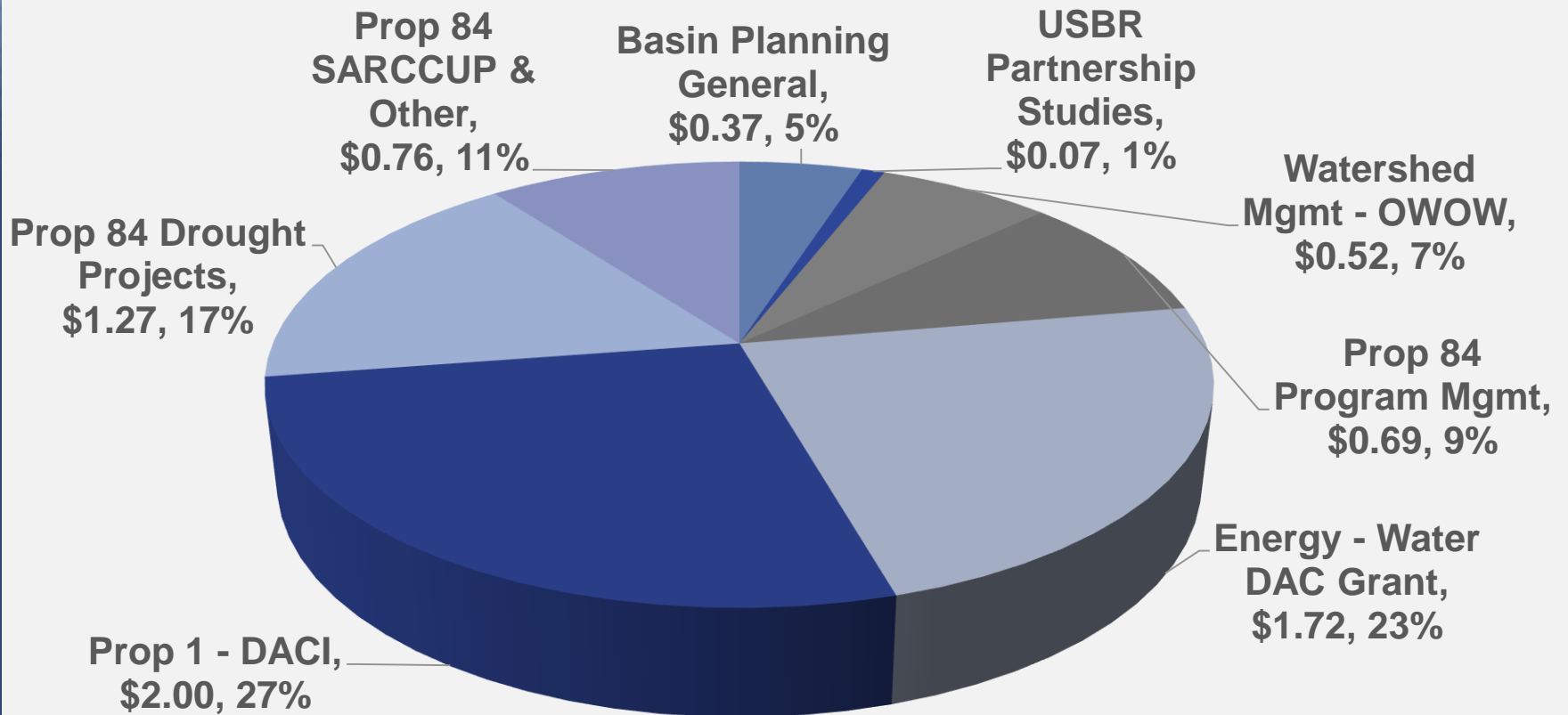


Expenses

Fund	FYE 2017	FYE 2018	FYE 2019
Basin Planning General	\$348,350	\$371,009	\$385,131
USBR Partnership Studies	69,853	69,178	70,365
Watershed Management – OWOW	298,725	523,362	551,346
Prop 84 Program Management (all rounds)	1,062,225	686,522	718,154
Energy – Water DAC Grant Project	941,539	1,721,860	918,104
Proposition 1 – DACI	0	2,003,206	1,747,121
Prop 84 Drought Capital Projects	2,243,172	1,265,683	1,182,042
Prop 84 SARCCUP & Other Projects	0	762,496	807,844
Total	\$4,963,864	\$7,403,317	\$6,380,106

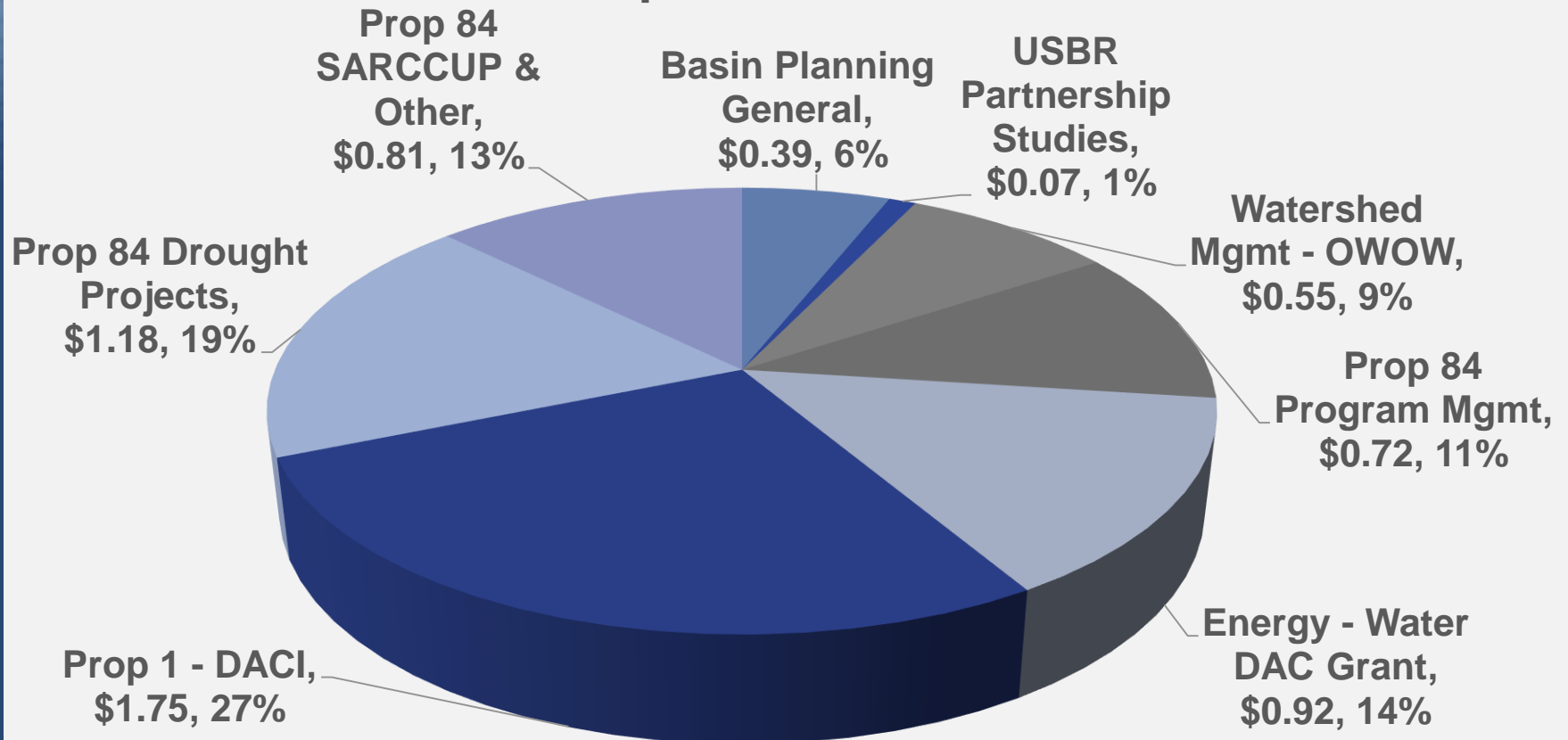
FYE 2018

Expenses \$7.40 M



FYE 2019

Expenses \$6.38 M

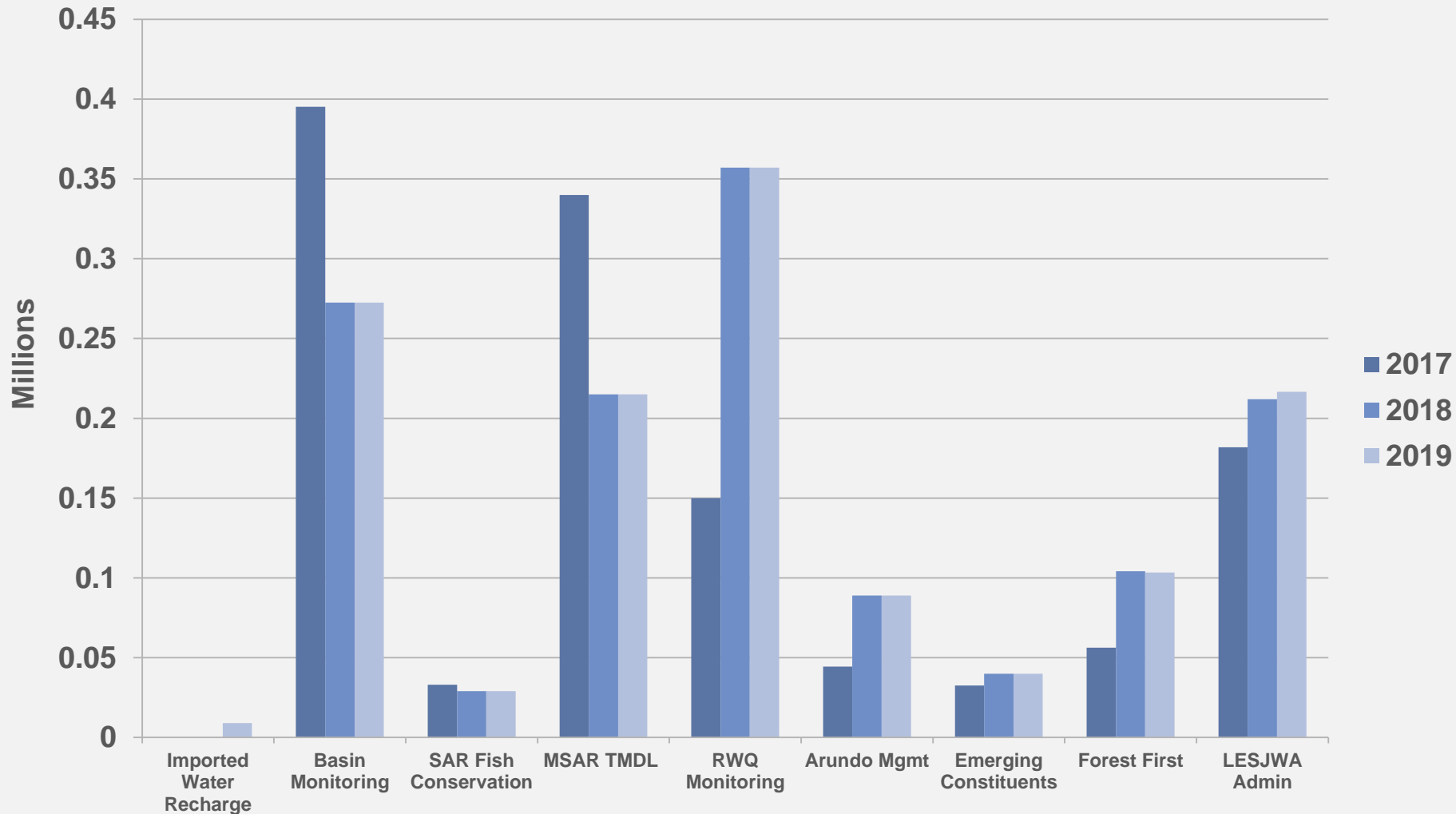




Prop 84 Projects (passthrough)

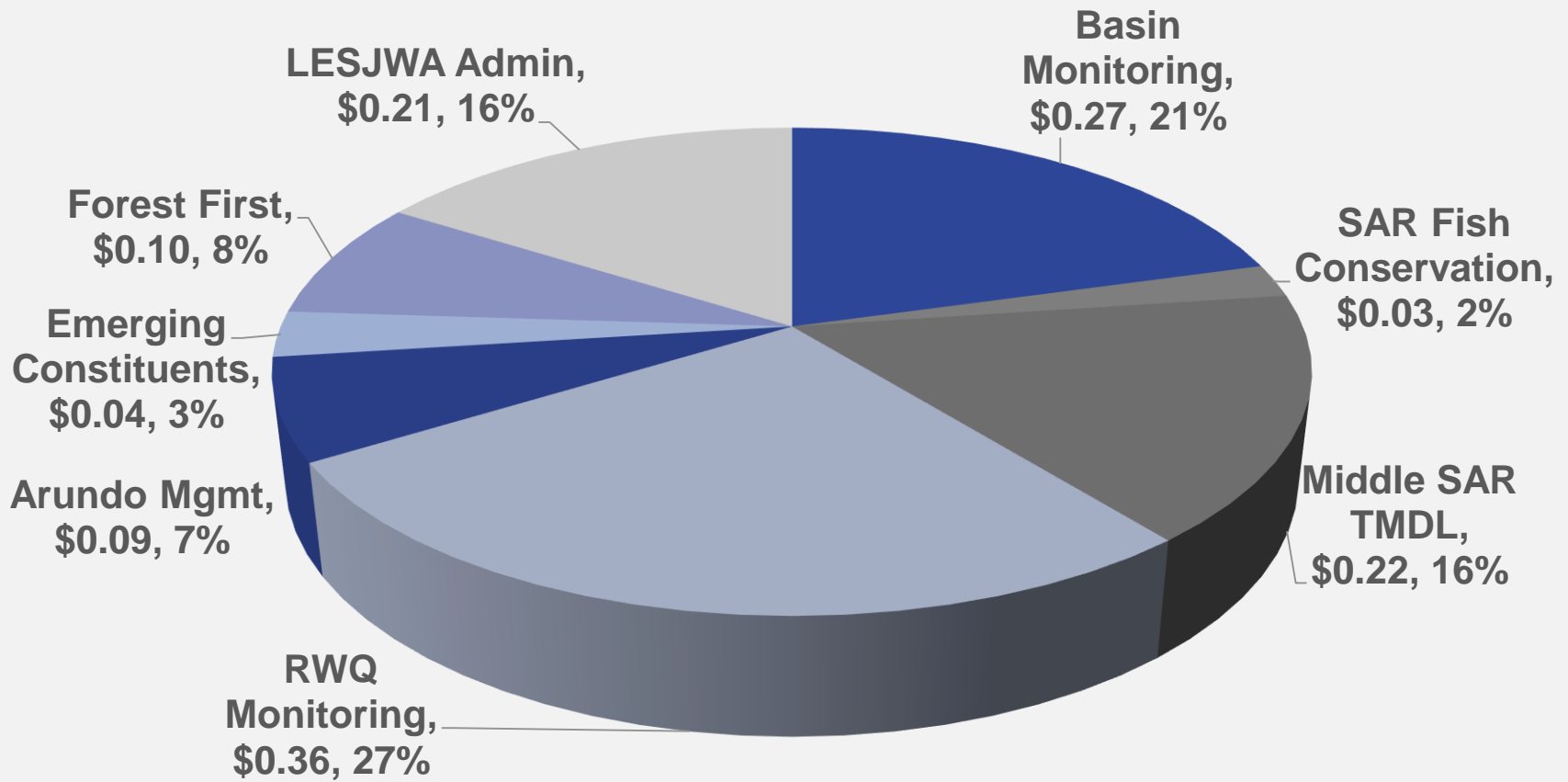
Fund	FYE 2017	FYE 2018	FYE 2019
Prop 84 Projects – Round I	\$750,000	\$750,000	\$0
Prop 84 Projects – Round II	4,008,806	6,780,247	2,075,000
Prop 84 Project – Drought Round	1,622,500	4,133,341	100,000
Prop 84 – Final Round (SARCCUP)	0	9,416,637	10,612,335
Total	\$6,381,306	\$21,080,225	\$12,787,335

Roundtables Funds - Revenue



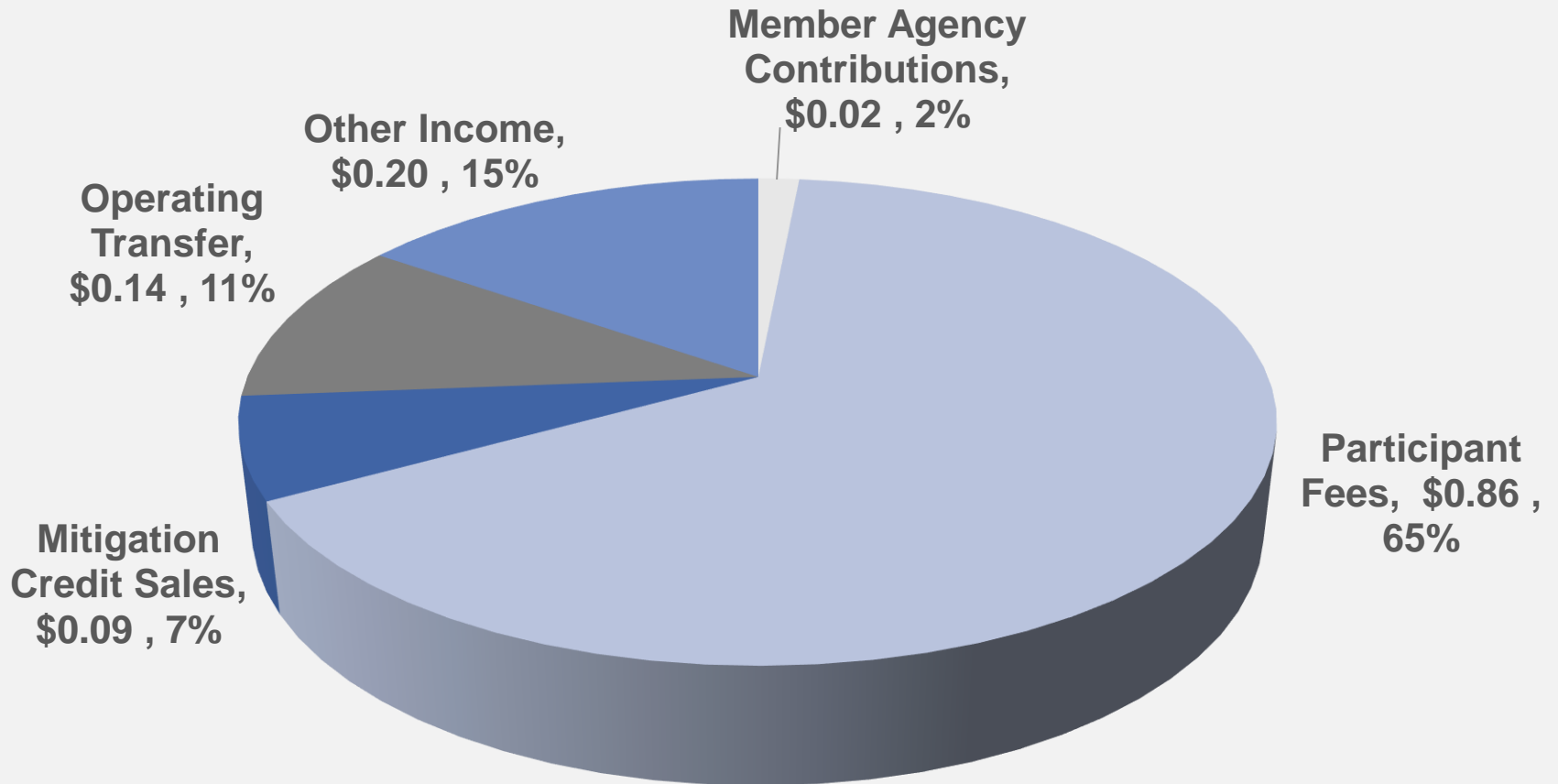
FYE 2018

Revenues \$1.32 M



FYE 2018

Revenues \$1.32 M



FYE 2019

Revenues \$1.33 M

**Imported Water
Recharge,
\$0.01, 1%**

**Basin
Monitoring,
\$0.27, 20%**

**LESJWA Admin,
\$0.22, 16%**

**SAR Fish
Conservation,
\$0.03, 2%**

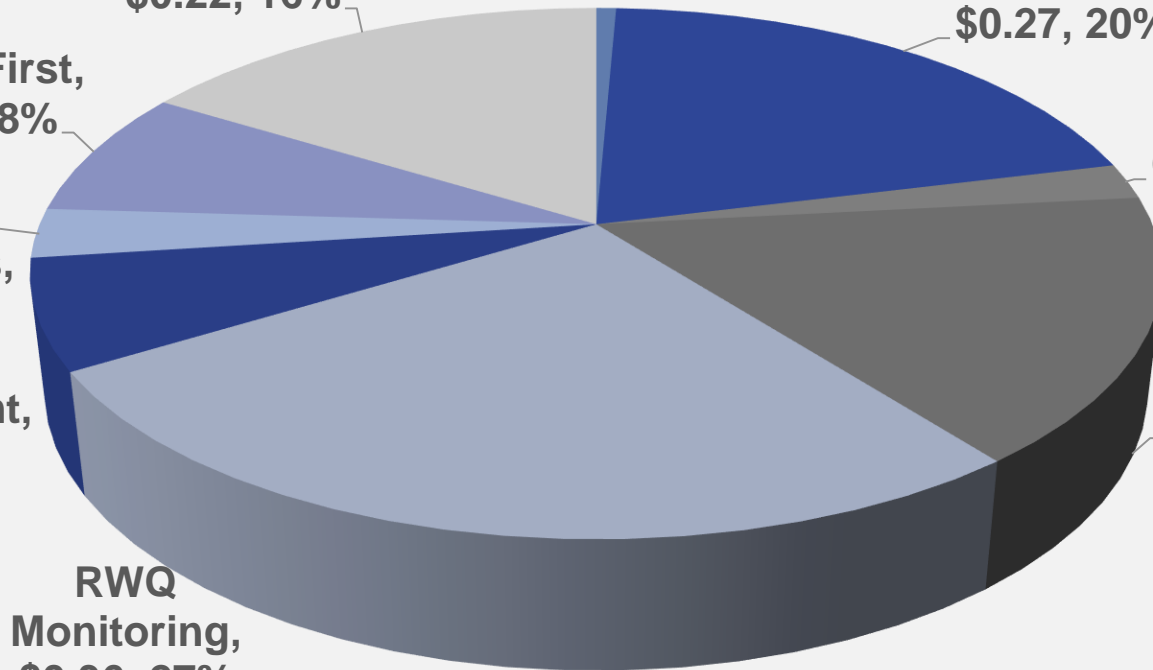
**Forest First,
\$0.10, 8%**

**Emerging
Constituents,
\$0.04, 3%**

**MSAR TMDL,
\$0.22, 16%**

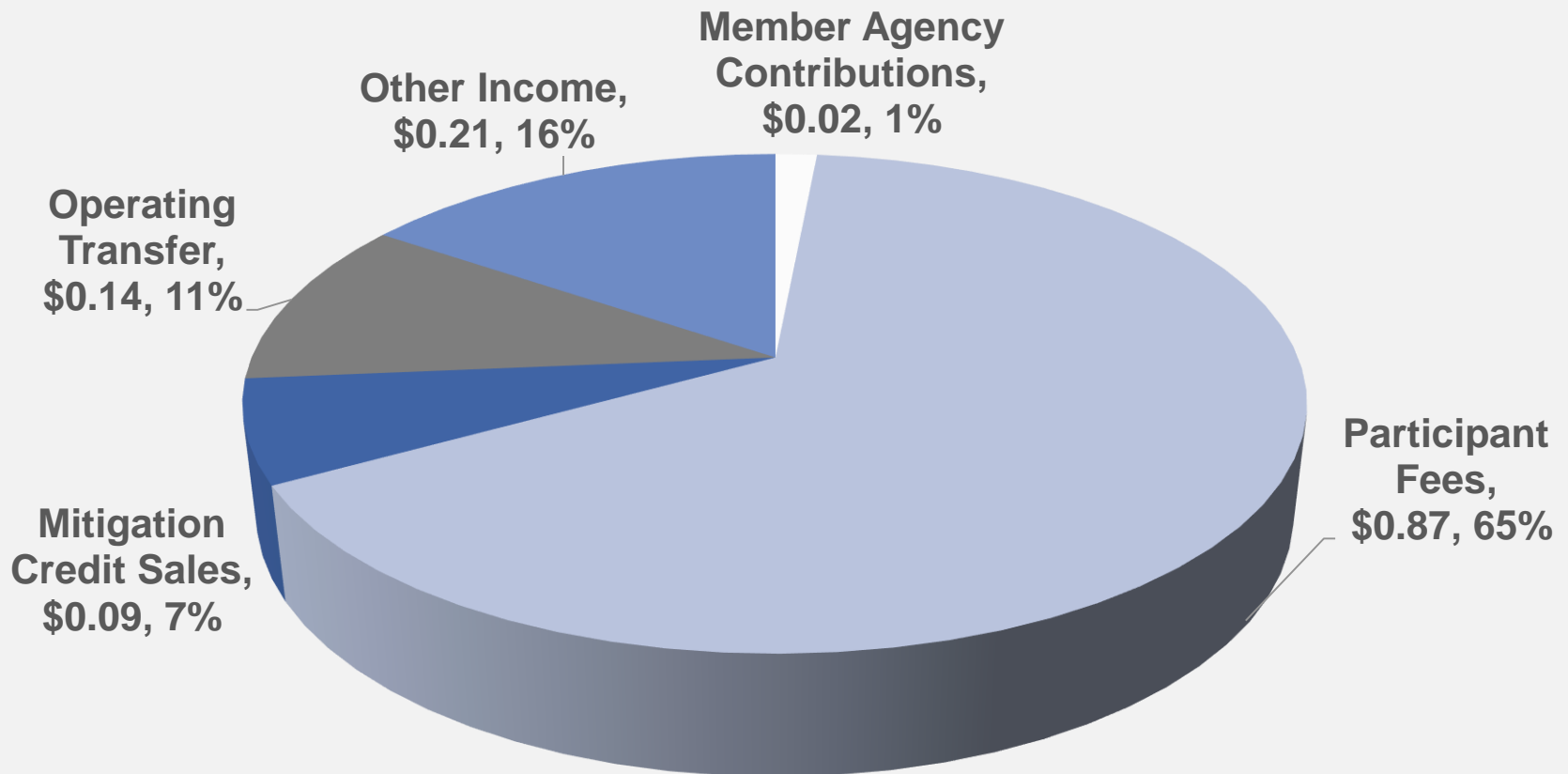
**Arundo Mgmt,
\$0.09, 7%**

**RWQ
Monitoring,
\$0.36, 27%**

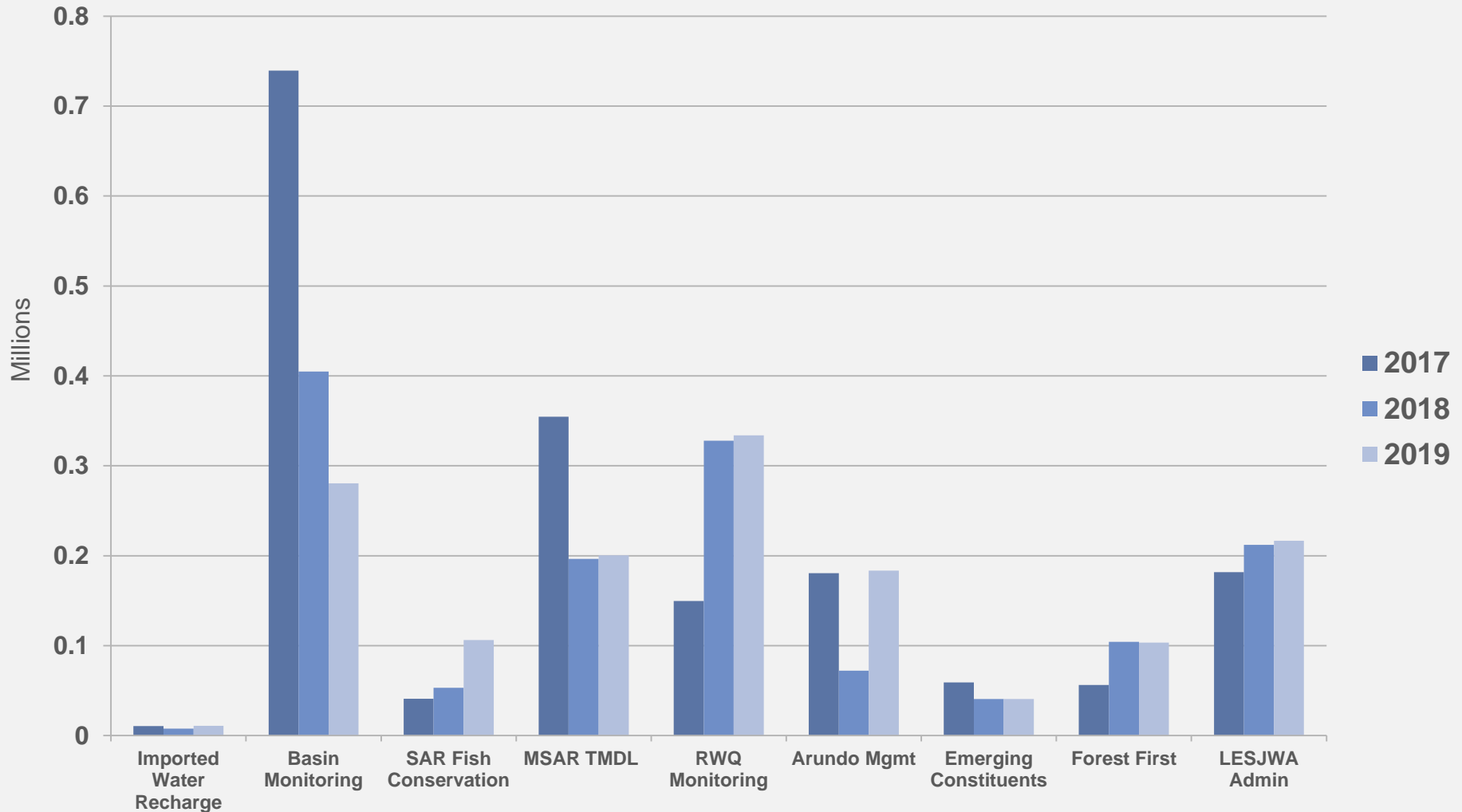


FYE 2019

Revenues \$1.33 M



Roundtables Funds – Expenses





Expenses

Fund	FYE 2017	FYE 2018	FYE 2019
Imported Water Recharge	\$10,523	\$7,698	\$10,804
Basin Monitoring Program TF	739,511	404,772	280,534
SAR Fish Conservation	41,030	53,156	106,303
Middle SAR TMDL TF	354,456	196,554	200,470
RWQ Monitoring TF	149,546	327,988	333,802
Arundo Management & Habitat	180,687	72,281	183,367
Emerging Constituents TF	59,166	40,528	40,719
Forest First	56,227	104,202	103,308
LESJWA Administration	181,782	212,027	216,674
Total	\$1,772,928	\$1,419,206	\$1,475,981

FYE 2018

Expenses \$1.42 M

**Imported Water
Recharge,
\$0.01, 1%**

**Basin
Monitoring,
\$0.40, 28%**

**SAR Fish
Conservation,
\$0.05, 4%**

**MSAR TMDL,
\$0.20, 14%**

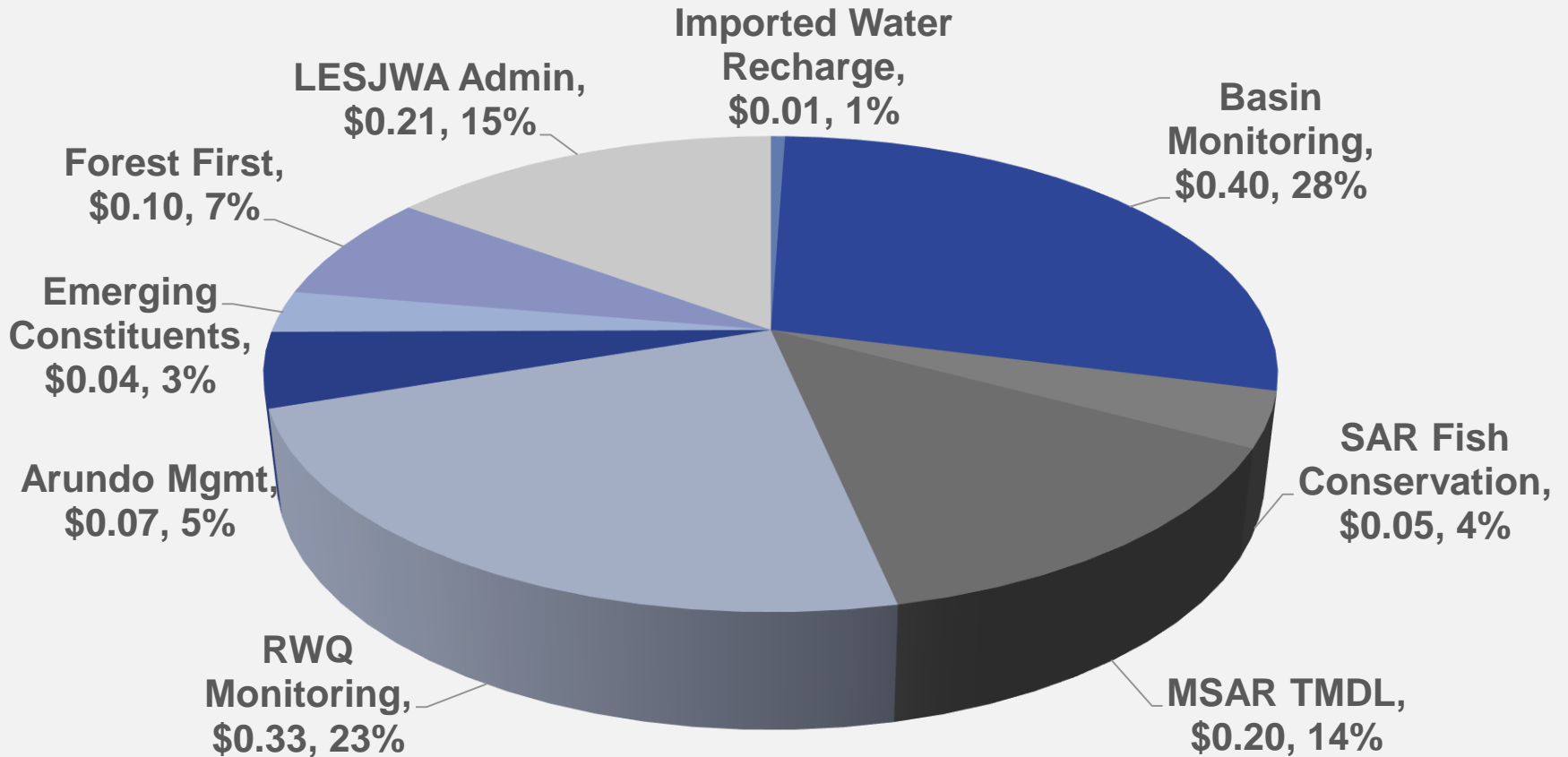
**RWQ
Monitoring,
\$0.33, 23%**

**Arundo Mgmt,
\$0.07, 5%**

**Emerging
Constituents,
\$0.04, 3%**

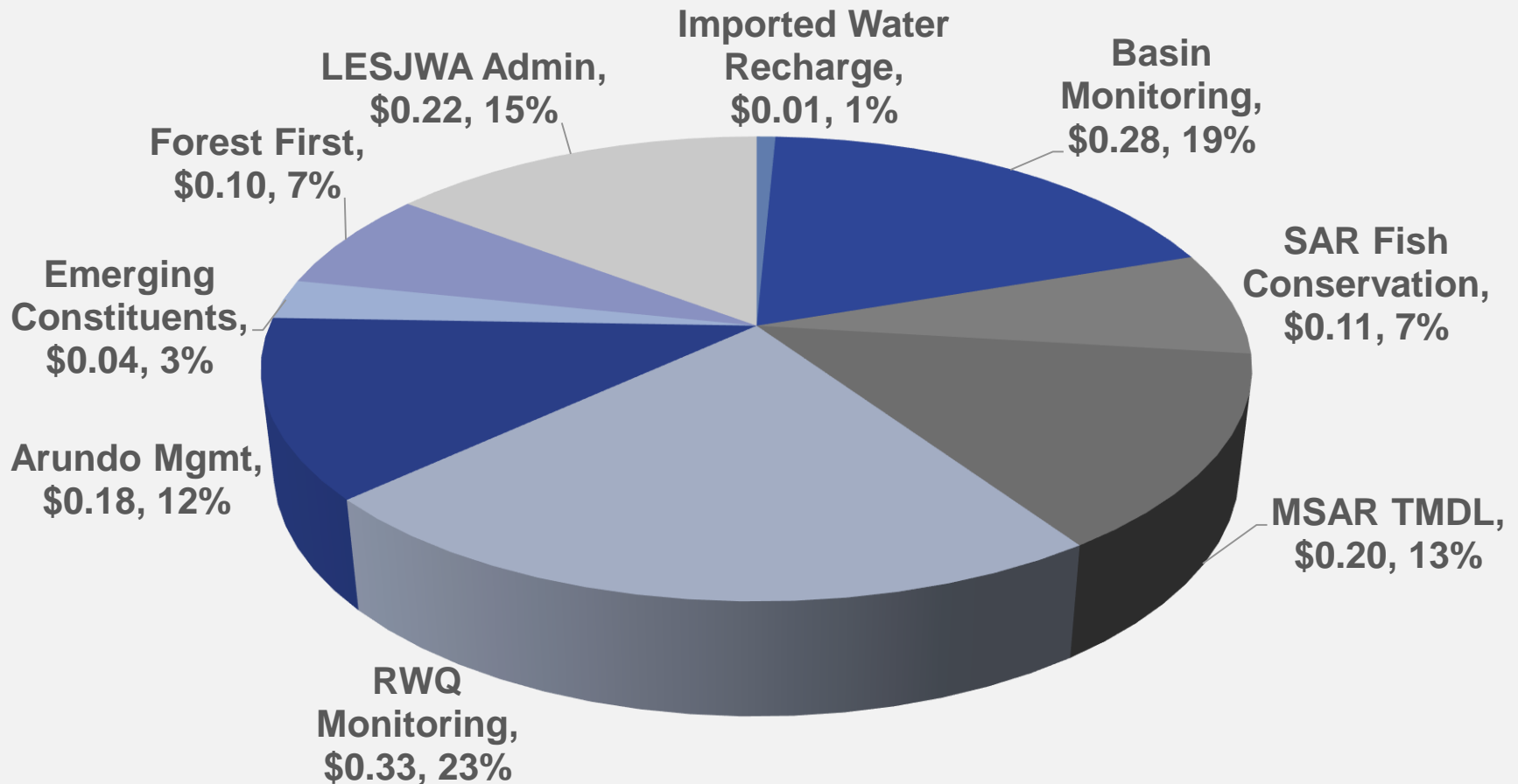
**Forest First,
\$0.10, 7%**

**LESJWA Admin,
\$0.21, 15%**

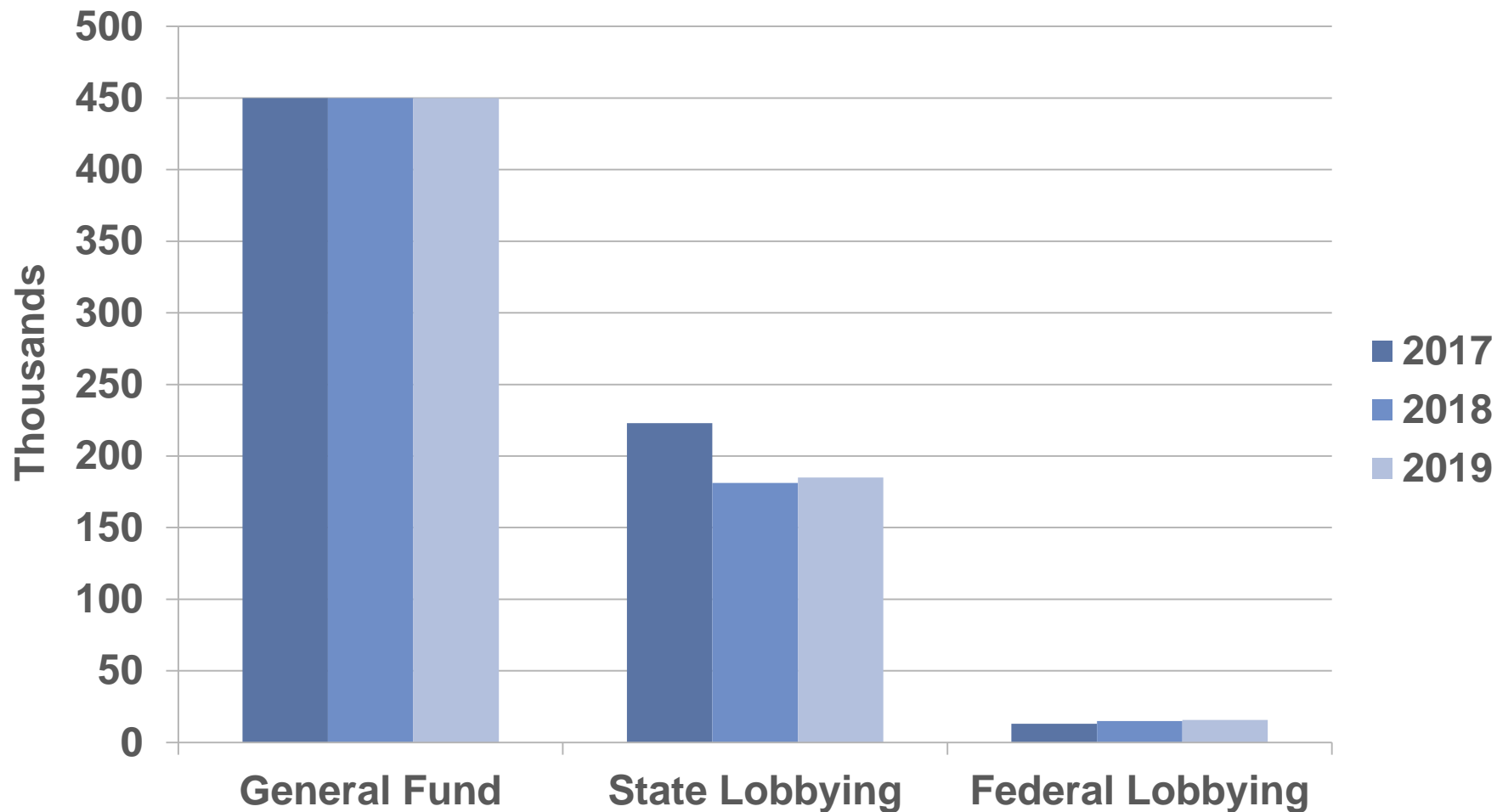


FYE 2019

Expenses \$1.48 M



General Fund Costs





General Fund Costs

Fund	FYE 2017	FYE 2018	FYE 2019
General Fund	\$450,000	\$450,000	\$450,000
State Lobbying	223,005	181,154	184,980
Federal Lobbying	26,302	14,962	15,715
Total	\$699,307	\$646,118	\$650,695



General Fund Costs

Fund	FYE 2017	FYE 2018	FYE 2019
Labor and Benefits	\$2,109,540	\$2,095,924	\$2,300,239
Education & Training	56,300	57,300	57,300
Consulting & Professional Services	95,000	146,000	134,400
Operating Costs	7,500	5,820	6,090
Repair & Maintenance	131,085	103,270	105,540
Phone & Utilities	71,000	68,200	73,620
Equipment & Computers	212,710	274,800	232,900
Meeting & Travel	54,200	57,500	57,500
Other Administrative Expenses	186,970	220,956	226,277
Insurance & Fixed Assets	105,000	157,956	164,703
Retiree Medical & Building Reserves	230,580	213,000	213,000
Total Before Indirect Cost Allocations	\$3,259,885	\$3,400,725	\$3,571,569
Less Indirect Cost Allocations	(2,809,885)	(2,950,725)	(3,121,569)
Total General Fund Costs	\$450,000	\$450,000	\$450,000



Cash Flow Projections – FYE 2018

Fund	Balance 06/30/17	Revenues/ Reserve Contributions	Expenses/ Use of Reserves	Balance 06/30/18
General Fund	\$2,267,163	\$646,118	\$646,118	\$2,267,163
OWOW Fund	457,257	7,335,908	7,403,317	389,848
Roundtables Fund	1,782,561	1,318,704	1,419,206	1,682,059
Brine Line Enterprise	43,955,872	17,158,561	23,768,814	37,345,619
Total	\$48,462,853	\$26,459,291	\$33,237,455	\$41,684,689



Cash Flow Projections – FYE 2019

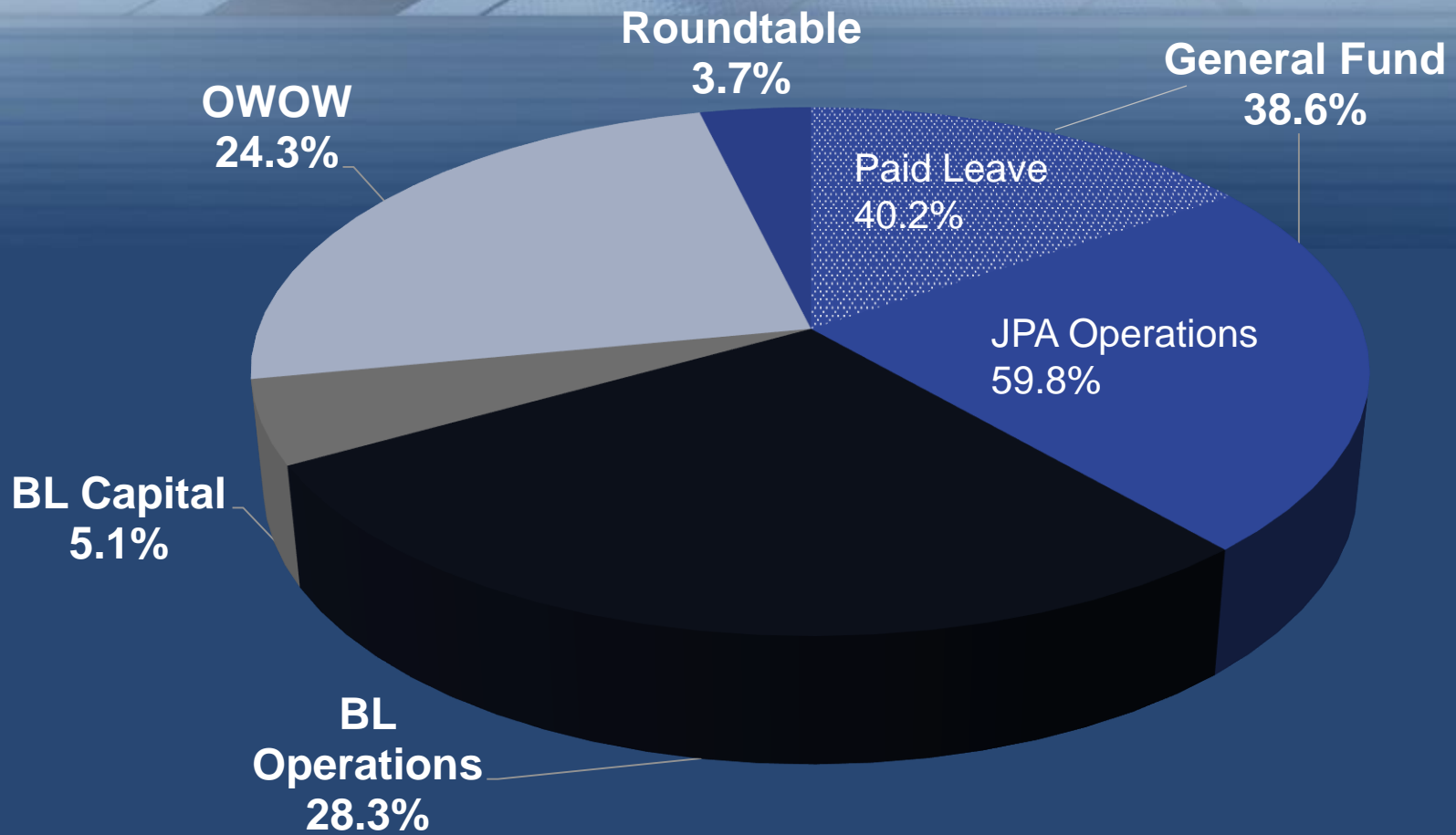
Fund	Balance 06/30/17	Revenues/ Reserve Contributions	Expenses/ Use of Reserves	Balance 06/30/18
General Fund	\$2,267,163	\$650,695	\$650,695	\$2,267,163
OWOW Fund	389,848	6,015,977	6,380,106	25,718
Roundtables Fund	1,682,059	1,331,457	1,475,981	1,537,534
Brine Line Enterprise	37,345,619	15,743,313	21,147,207	31,941,726
Total	\$41,684,689	\$23,741,442	\$29,653,989	\$35,772,140

A close-up photograph of a silver fountain pen nib resting on a document. The document features a line graph with a red line showing an upward trend. The x-axis of the graph is labeled with months: 'Feb.', 'Apr.', 'Jun.', and 'Aug.'. There is also some handwritten text in blue ink on the document, including the word 'MAY' and some numbers. The background is a dark blue gradient.

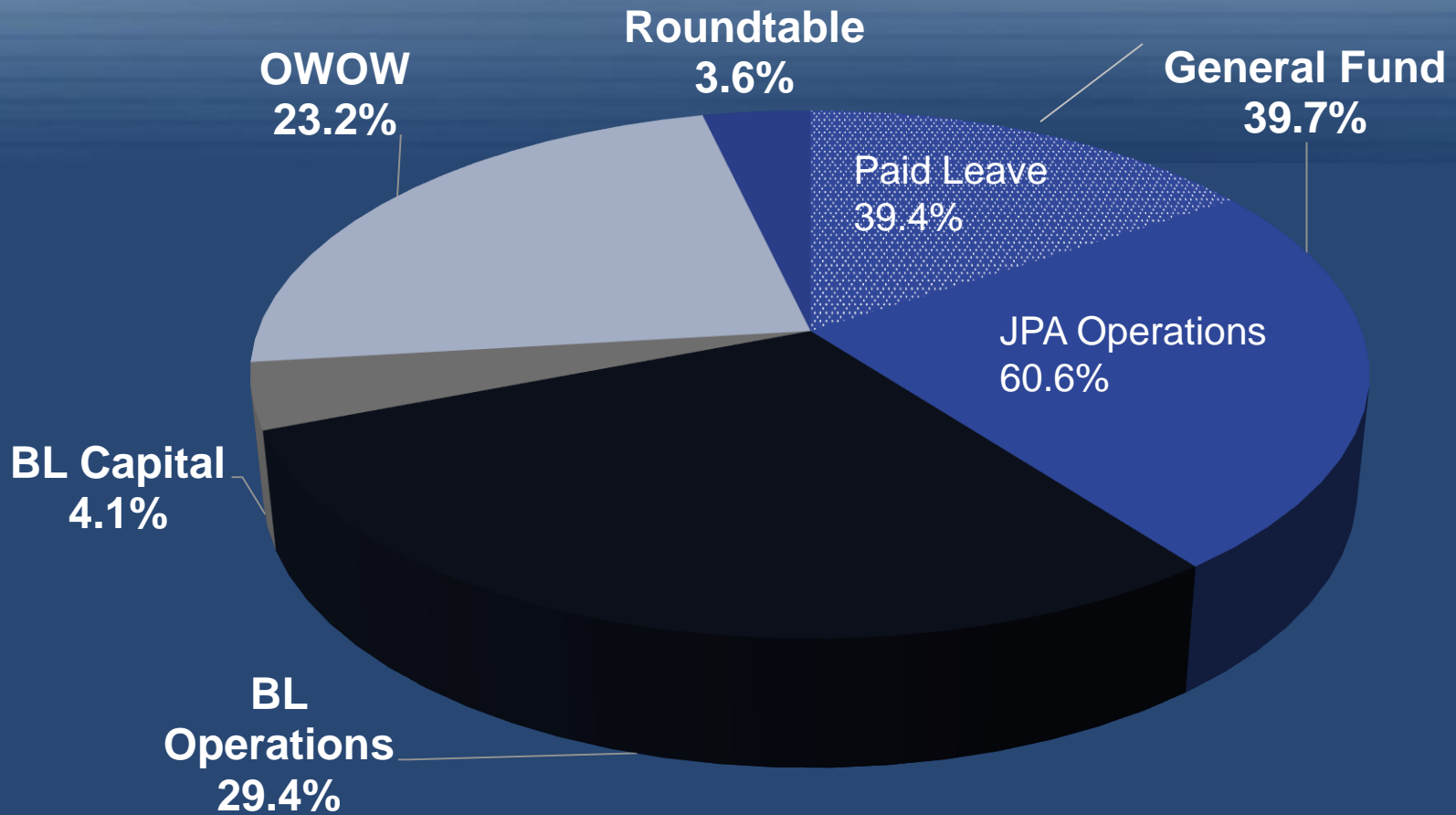
Labor Assumptions Used

- 28 FTE
 - 26 filled and approved FTE
 - 2 unfilled budgeted positions
- 4 Interns
- Approved 4% Merit Pool (both years)
- Approved 1.25% or annual indexed COLA using the LA-Riverside-Orange County CPI index (whichever is greater)

Labor Hours Distribution – FYE 2018



Labor Hours Distribution – FYE 2019





Total Labor Hours Distribution

Fund	FYE 2018	% of Total	FYE 2019	% of Total
General Fund	23,953	38.6%	24,625	39.7%
Brine Line Operating Fund	17,550	28.3%	18,250	29.4%
Brine Line Capital Fund	3,176	5.1%	2,515	4.1%
OWOW Funds	15,075	24.3%	14,429	23.2%
Roundtable Funds	2,326	3.7%	2,261	3.6%
Total	62,080	100.0%	62,080	100.0%

A fountain pen is positioned diagonally across the top of the slide, resting on a document. The document features a line graph with a red line showing an upward trend. The graph's x-axis is labeled with months: 'Feb.', 'Apr.', 'Jun.', and 'Aug.'. A magnifying glass is visible in the upper right corner, focusing on the document. The background is a dark blue gradient.

Benefit Assumptions Used

- Health insurance cap based on the lowest cost plan (Kaiser family) - \$1,505.65/month
- Classic PERS 2% @ 55, PEPRA 2% @ 62
 - FYE 2018 employers rate (includes increase for lowered discount rate)
 - Classic = 10.0%
 - PEPRA = 7.5%
 - FYE 2019 employers rate (includes increase for lowered discount rate)
 - Classic = 10.9%
 - PEPRA = 8.0%
 - Employer Paid Member Contribution (EPMC)
 - FYE 2018 = 4.2%
 - FYE 2019 = 2.8%
 - GASB 45 Compliance – Annual Required Contribution (ARC)
 - FYE 2018 = \$113,000
 - FYE 2019 = \$113,000



Total Payroll & Benefit Costs

FYE	Benefits	Payroll	Total	% Change
2015	\$1,107,707	\$2,642,113	\$3,749,820	3.7%
2016 *	1,228,101	2,912,184	4,140,285	10.4%
2017 **	1,441,728	3,323,389	4,765,117	15.1%
2018	1,569,289	3,592,414	5,161,703	8.3%
2019	1,686,262	3,859,112	5,545,374	7.4%

* Hired Project Manager in February 2016

** 2017 numbers are budgeted not actual, hired QC Manager in Sept 2016



Benefit & Indirect Cost Allocation Rates

FYE	Benefits	Indirect Cost	Total
2015	0.419%	1.494%	1.913%
2016	0.422%	1.651%	2.073%
2017	0.434%	1.579%	2.013%
2018	0.437%	1.411%	1.848%
2019	0.437%	1.411%	1.848%



Member Contributions

FYE	Per Member Agency	Inc/(Dcr) Over Prior Year	Total
2015	\$339,090	\$8,723	2.64%
2016	269,559	(69,531)	(20.51%)
2017	287,861	18,302	6.79%
2018	288,423	562	0.20%
2019	294,339	5,916	2.05%



Member Contributions per Agency

Activity	FYE 2017	FYE 2018	FYE 2019
General Planning	\$70,000	\$71,200	\$71,200
USBR Partnership Studies	4,000	4,000	4,000
Watershed Management (OWOW)	60,000	80,000	85,000
SA River Fish Conservation	2,000	2,000	2,000
Stormwater Quality Standards TF	10,000	0	0
LESJWA Management	2,000	2,000	2,000
State/Federal Lobbying	49,861	39,223	40,139
General Fund	90,000	90,000	90,000
Total Agency Contribution	\$287,861	\$288,423	\$294,339

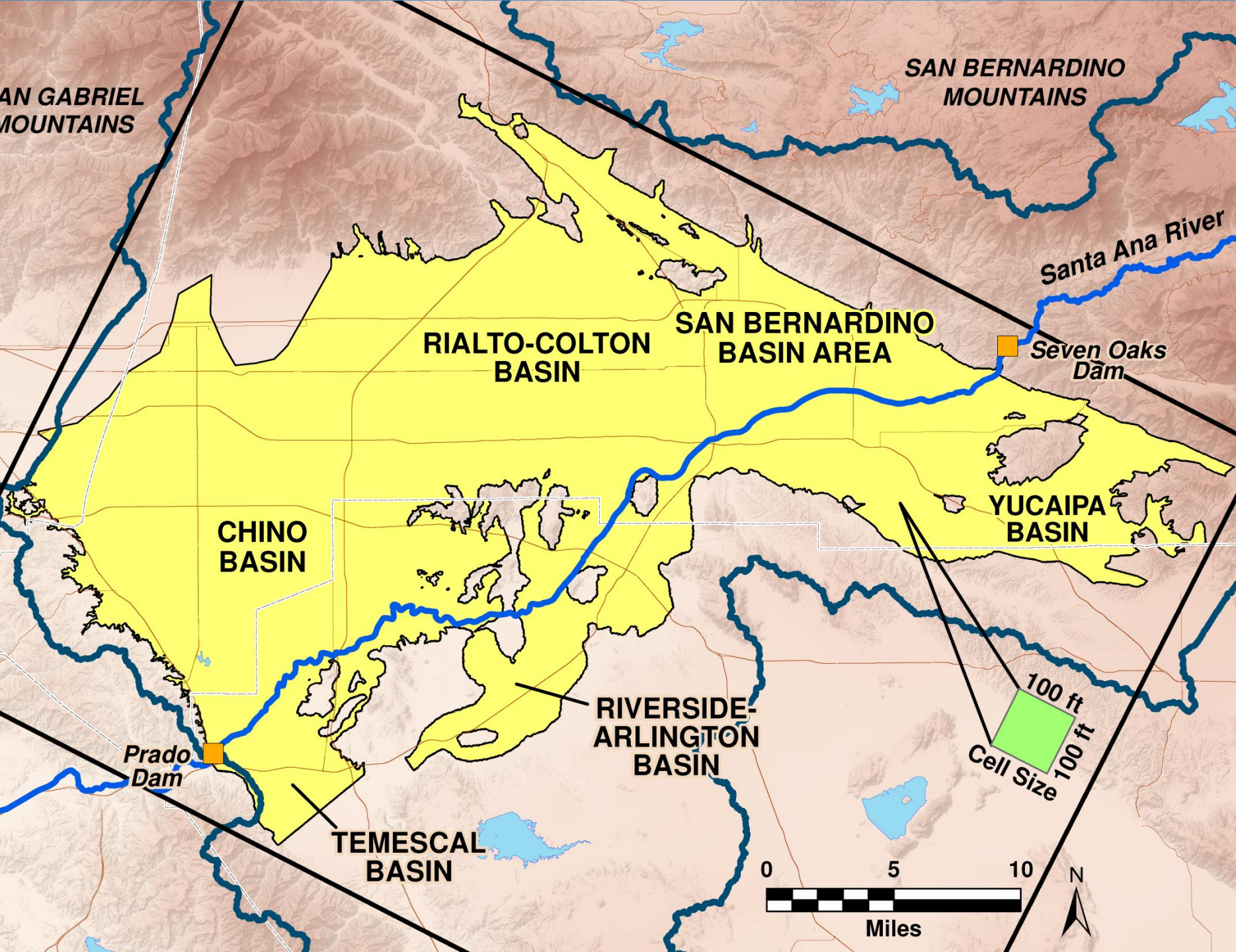


Staff Recommendation

- Adopt the FYE 2018 and 2019 Budget as presented and direct each member agency to:
 - Notice the consideration of the FYE 2018 and 2019 SAWPA Budget on their next Board of Directors Meeting agenda;
 - Approve by Board Resolution (pursuant to the Joint Powers Authority Agreement) the FYE 2018 and 2019 SAWPA Budget; and
 - Provide SAWPA with a certified copy of the signed Board Resolution.
- Approve the Reserve Transfers presented
- Approve the Brine Line Pipeline Operator position and direct staff to fill the position



Questions?

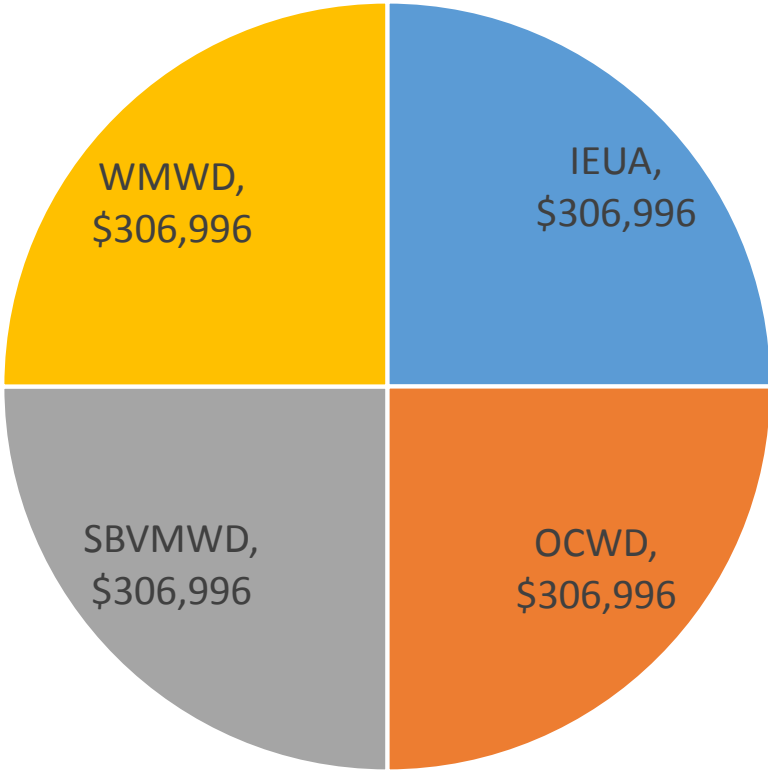
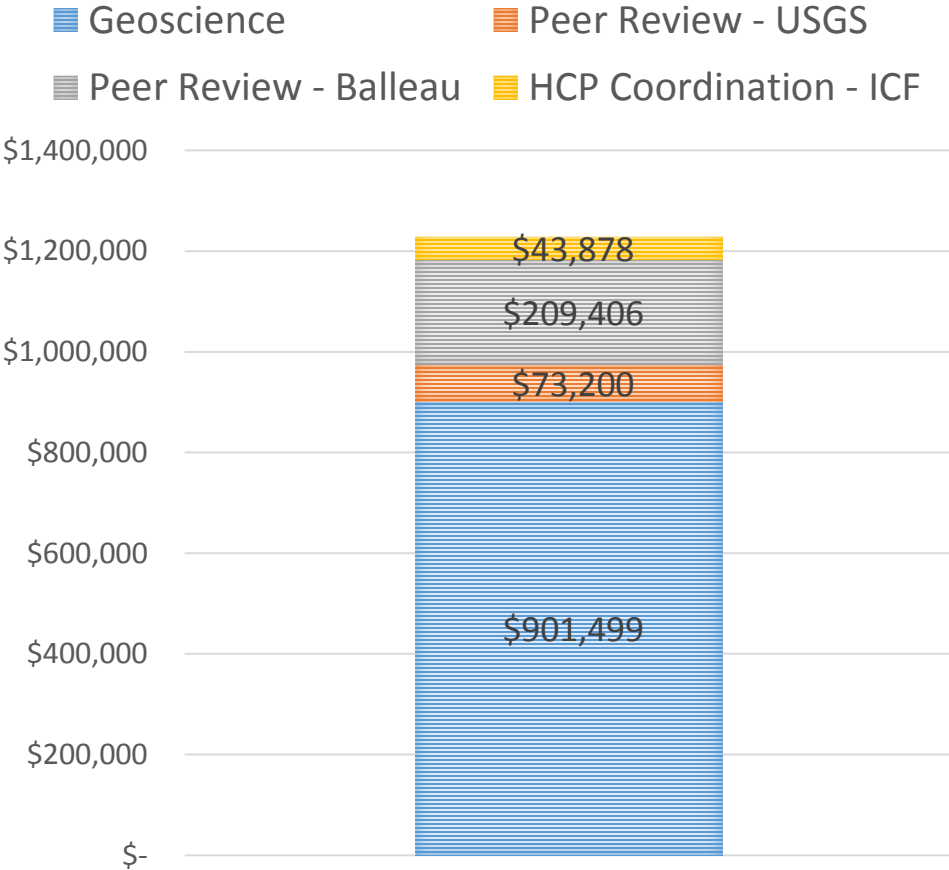


Upper Santa Ana River Integrated Model (River Study)

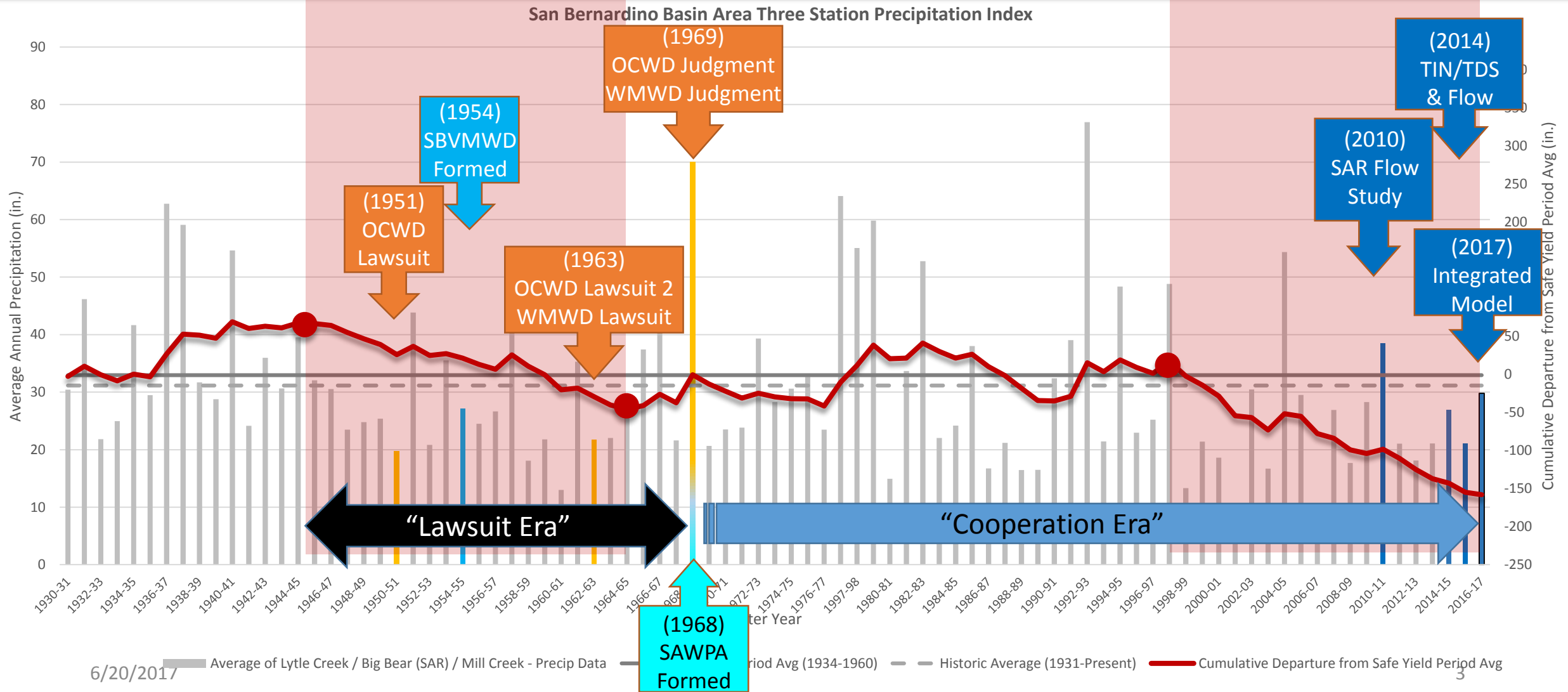
Santa Ana Watershed Project Authority

June 20, 2017

Joint Project



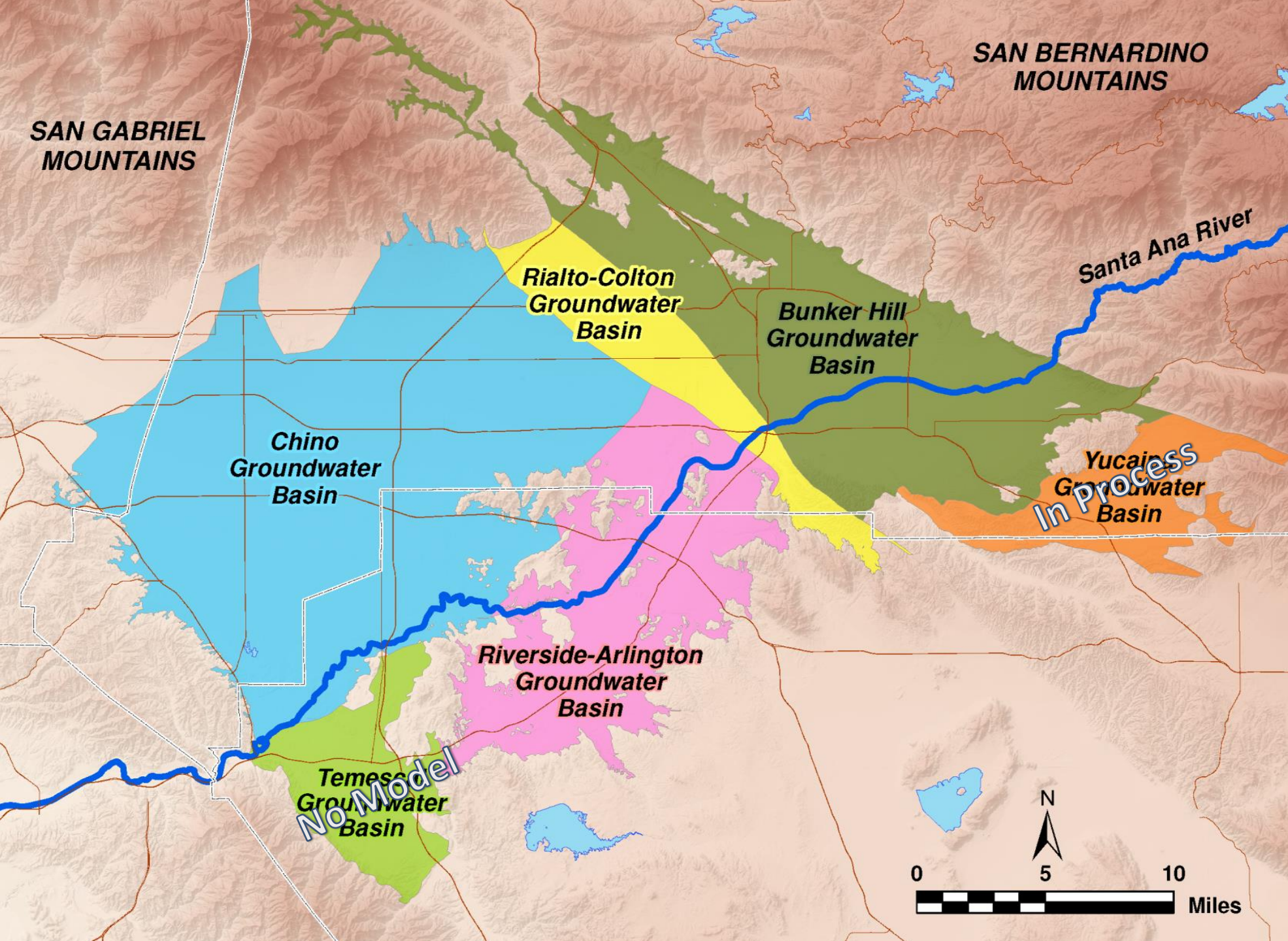
Historical Perspective



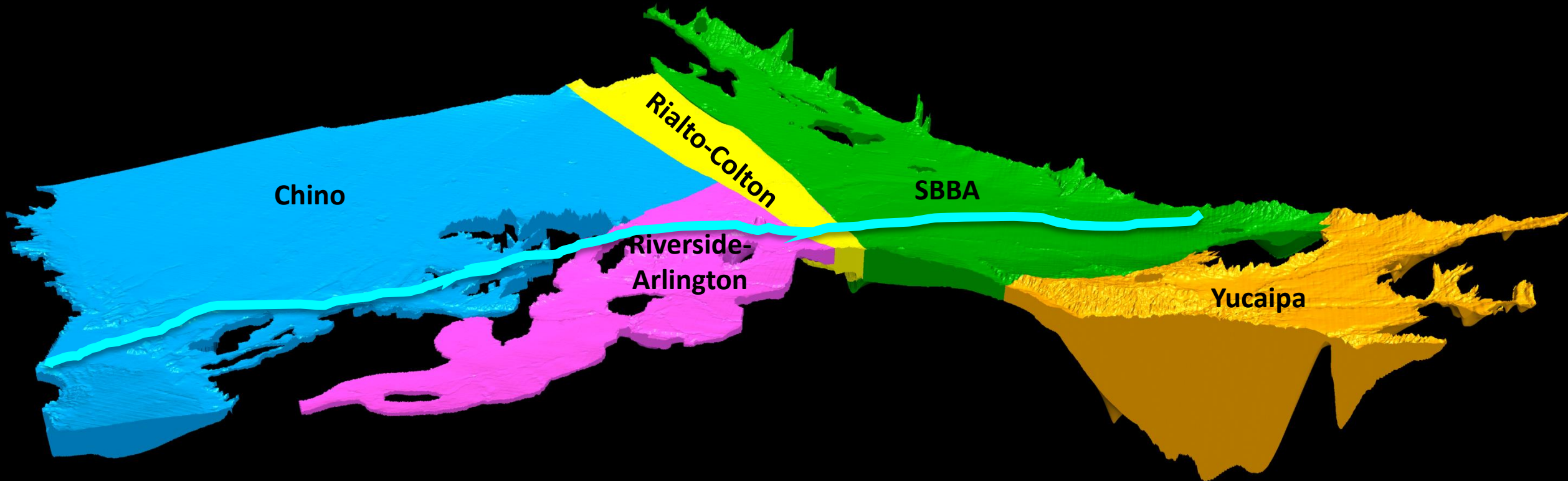
Integrated Model - Purpose

- Orange County Water District Concerns
 - Decreased flows in the river
 - Potential loss/degradation of constructed habitat at Prado
- Upper Santa Ana River Habitat Conservation Plan (HCP) Concerns
 - Water delivered to the river for *Santa Ana Sucker* could be absorbed by the river (decreased flows)
 - Existing modeling techniques could be overestimating the amount of water needed by the fish

Existing and Proposed Models



Existing Models



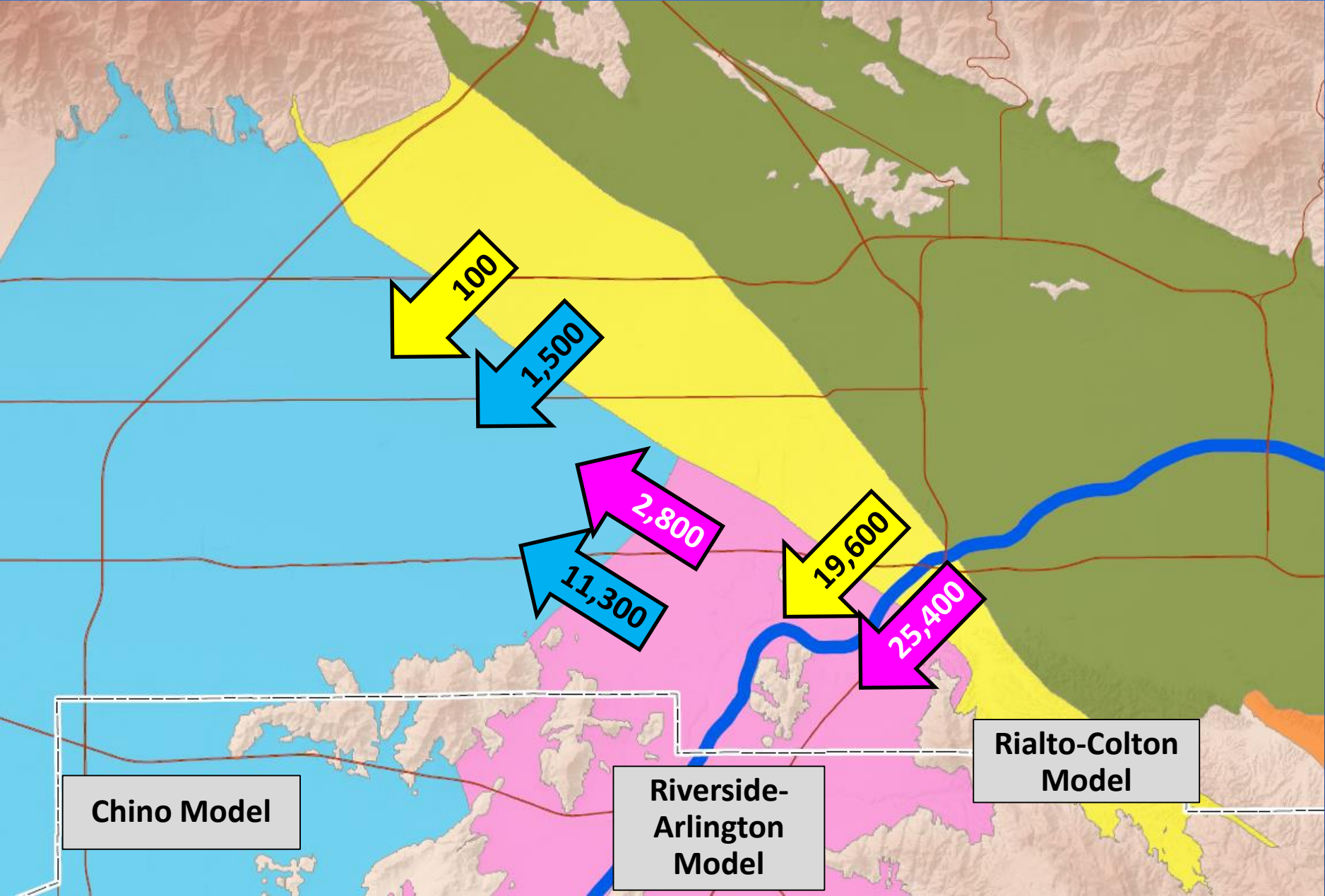
Modeling Process with Existing Models (handoff)



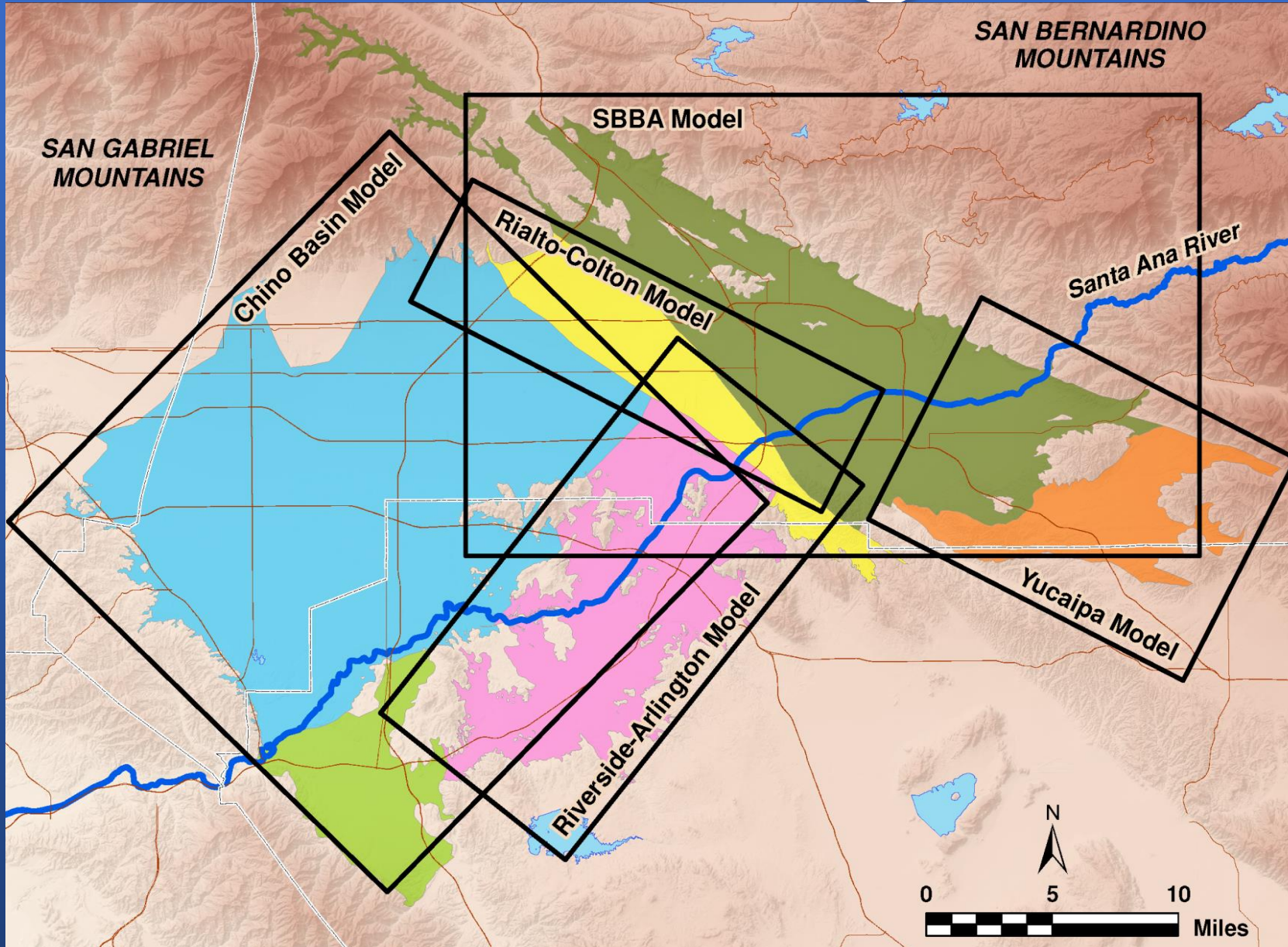
Every handoff there is a chance for a drop...

We already know some of the “drops”

Example:
Inconsistency of Underflow Across Basin Boundaries



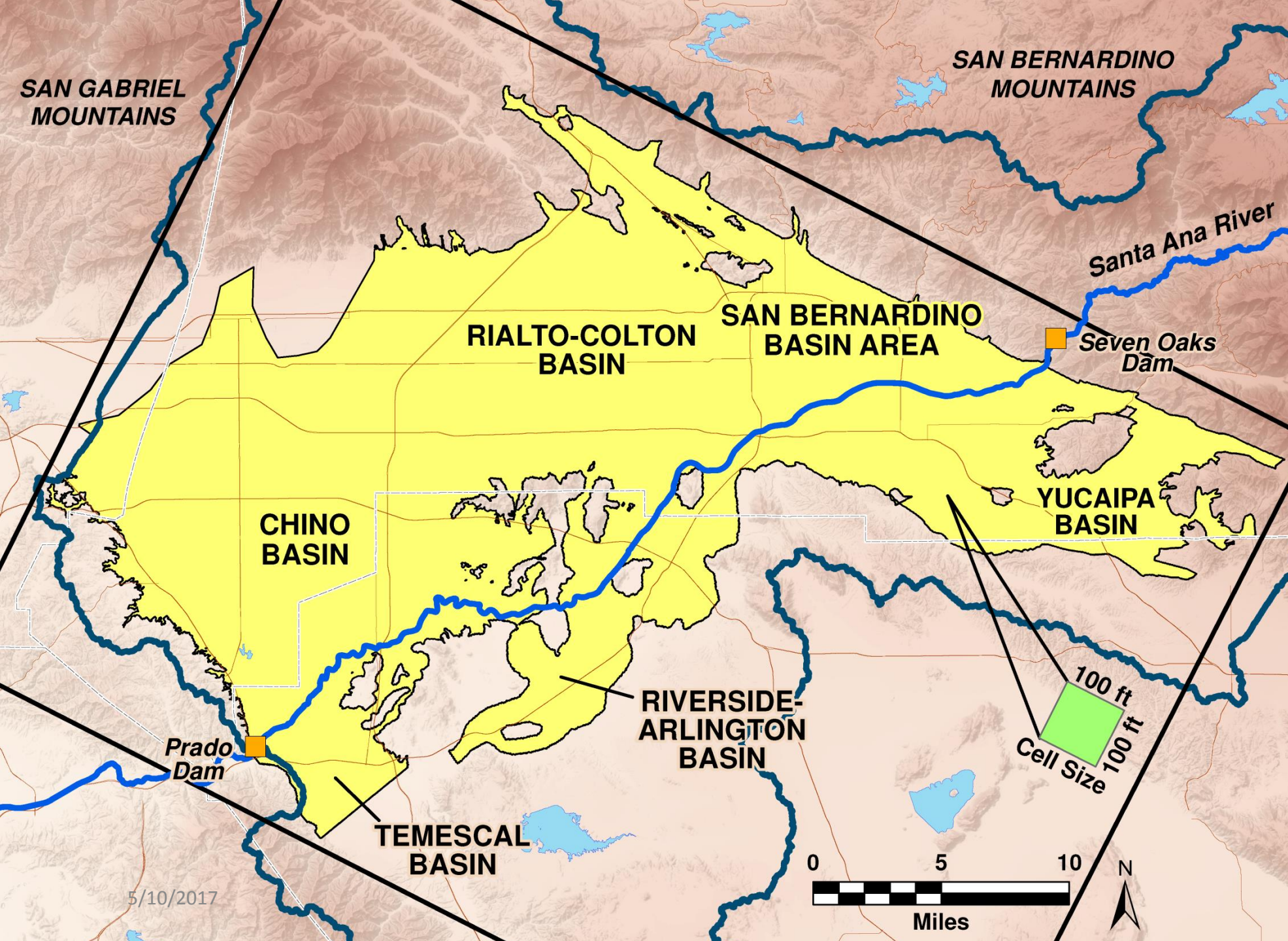
Solution – Integrated Flow Model



Handoffs

Increased
= Confidence
in Results

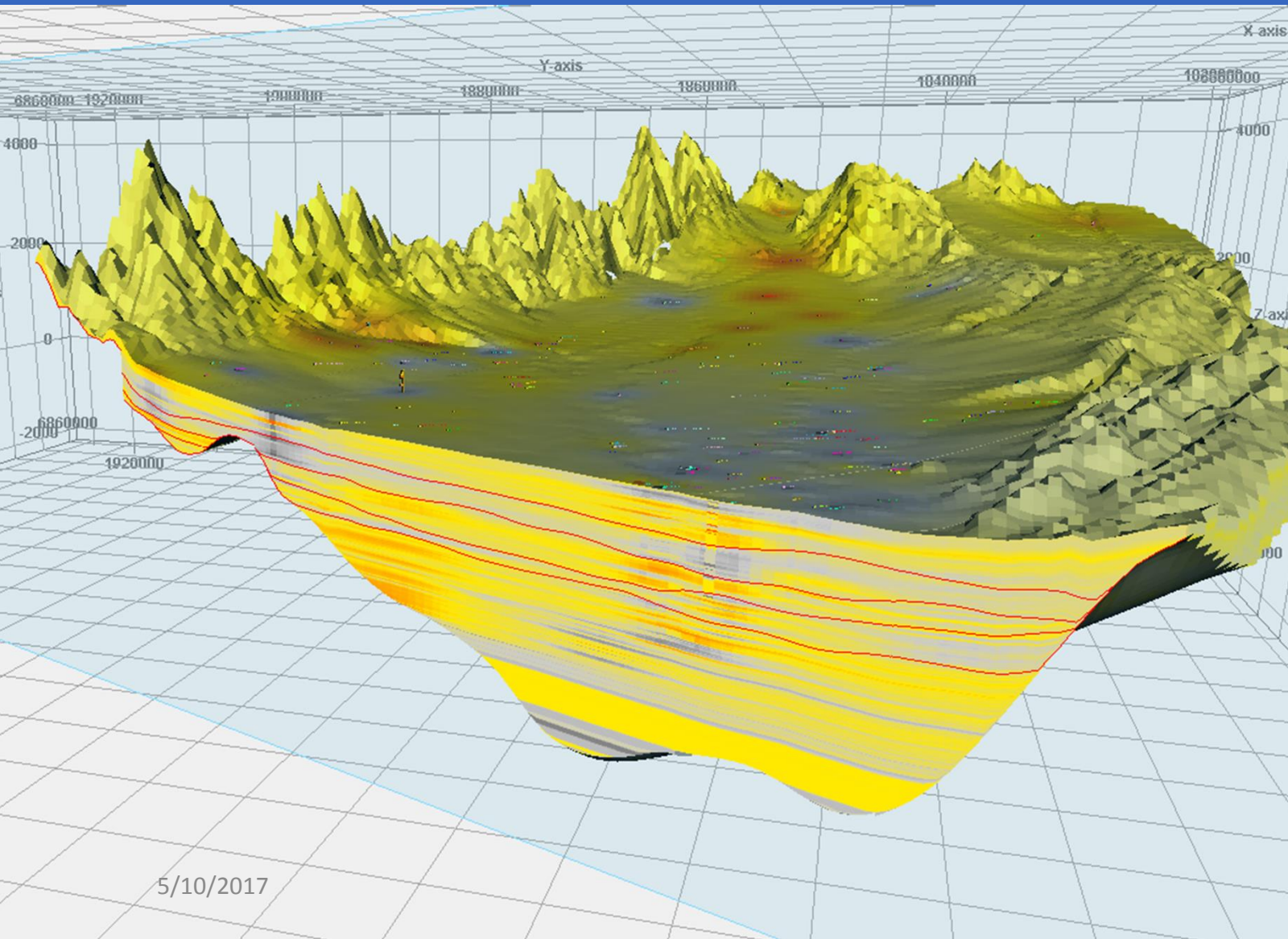
Proposed Model



Flexibility – Each Model Can be Run Independently



Developing a Comprehensive Geologic Model

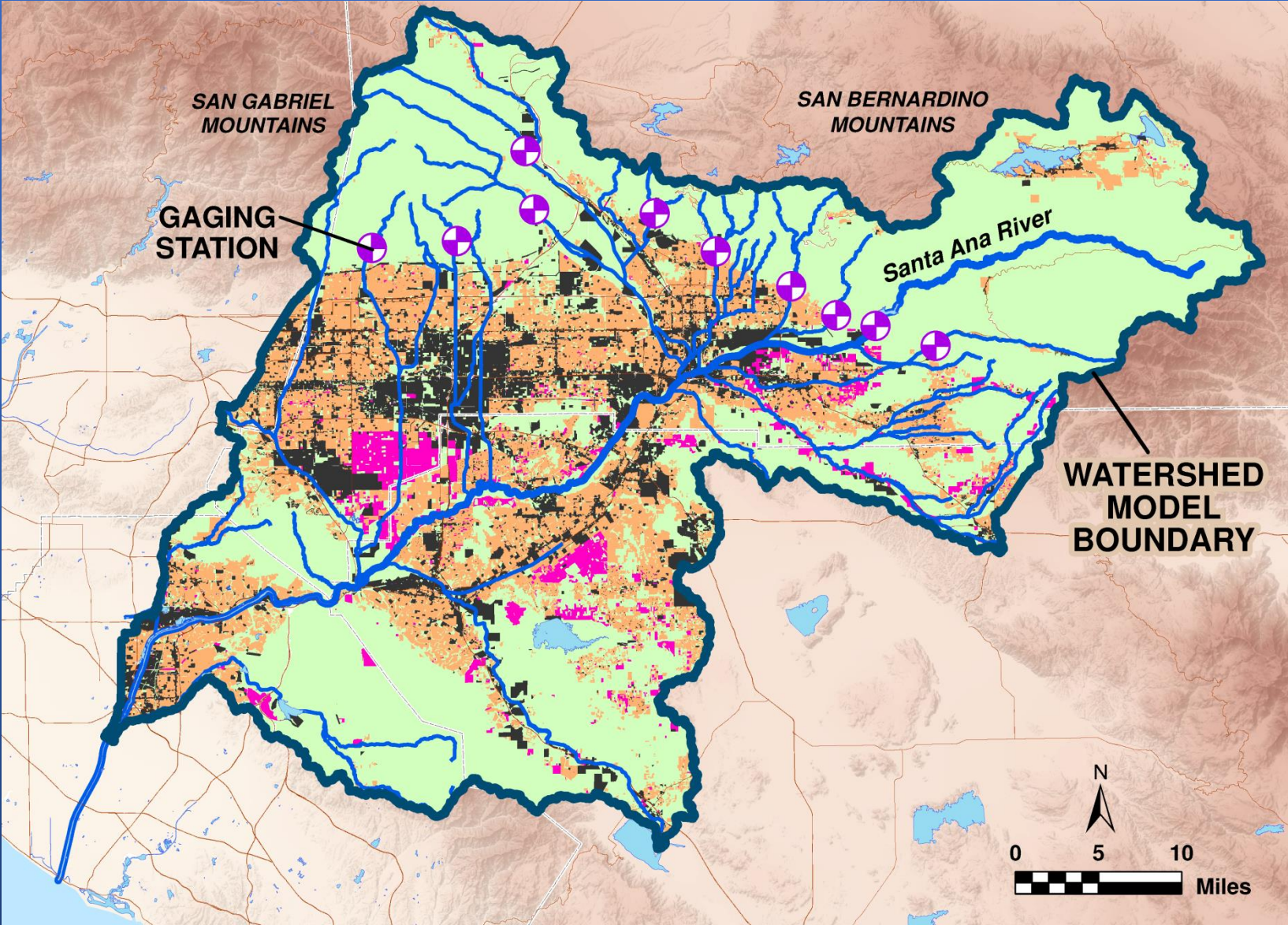


A solid geologic model is important

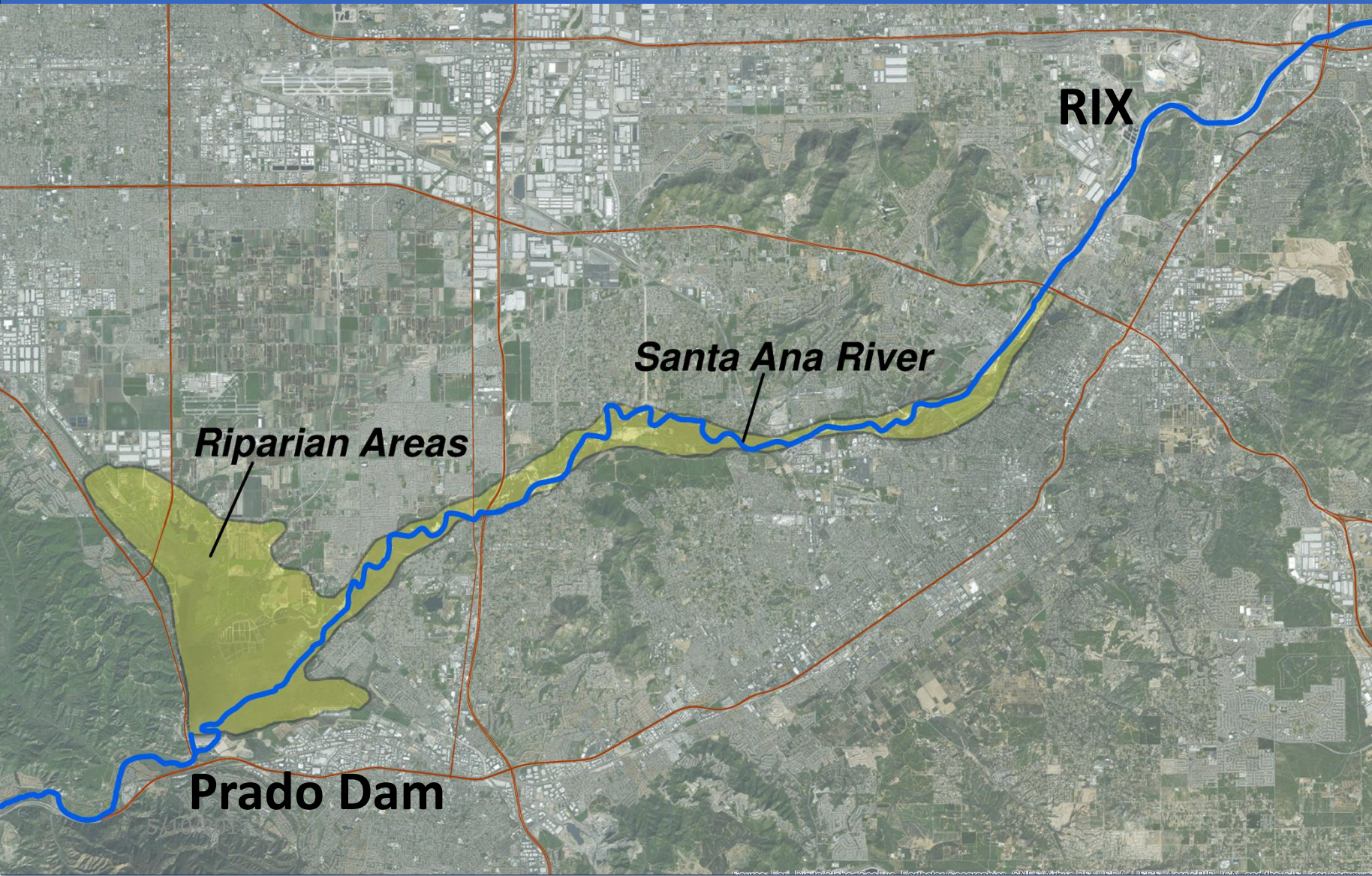
Using state-of-the art
Petrel software

(used extensively by the oil & gas industry, used for SBBA, Riverside-Arlington and Rialto-Colton models)

Integrated Model will Include Streamflow Simulation Capability

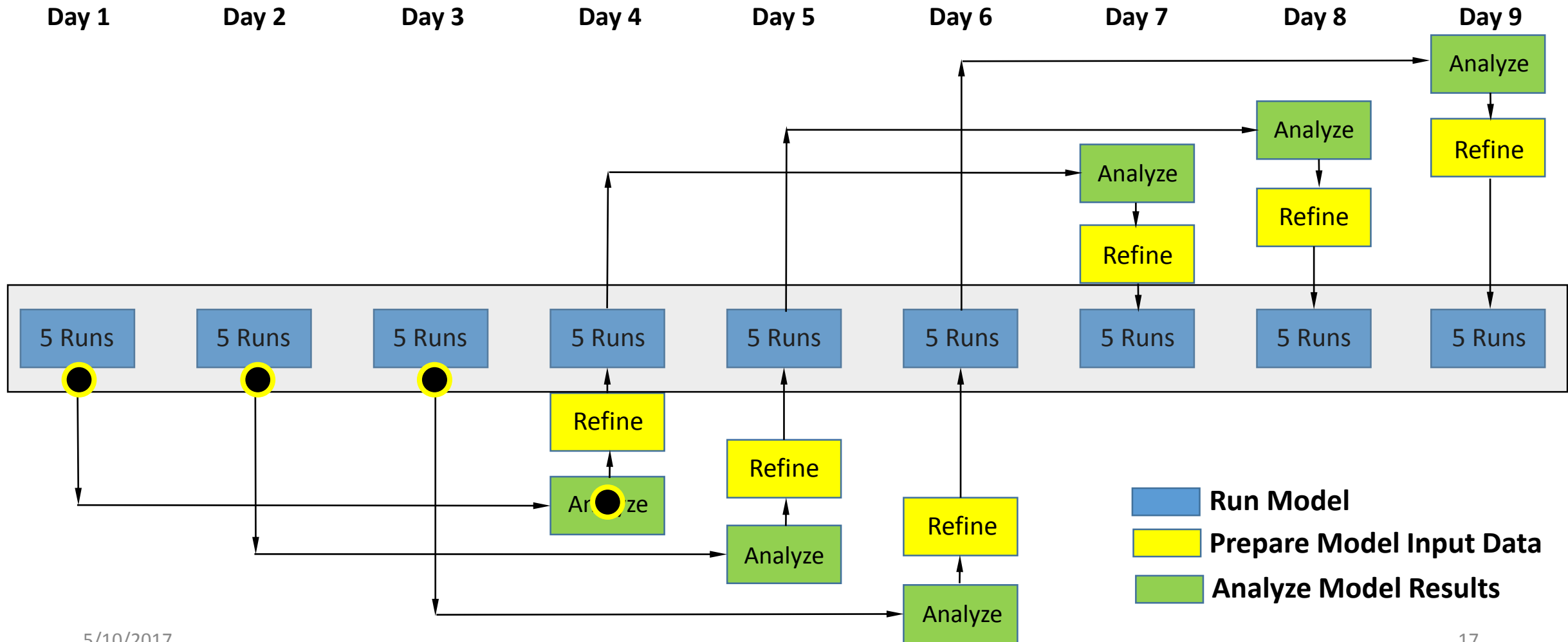


Integrated Model will Improve the Riparian and Shallow GW Simulation Capabilities



- ✓ Estimate historical GW consumption by riparian vegetation
- ✓ Use 1 ft contour topography to refine model land surface in riparian vegetation area
- ✓ Calibrate model-calculated evapotranspiration

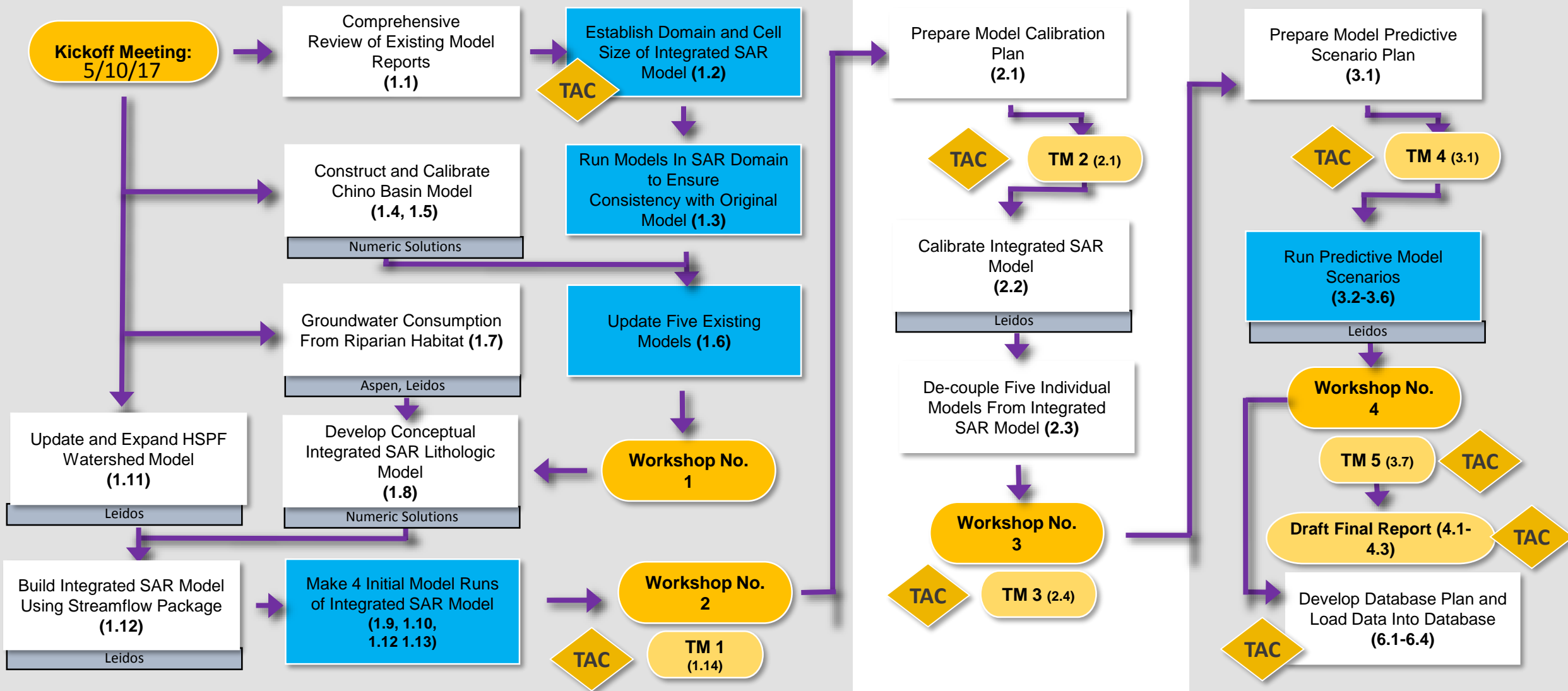
Cloud-Based Computing Makes this Possible



Task 1 – Data Collection/Model Development

Task 2 - Calibration

Tasks 3-6 – Scenarios/Report



Project Schedule

Task	Description	2017								2018							
		May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
1	Model Integration	[Green bar from May to Oct 2017]															
2	Flow Model Calibration					[Green bar from Sept 2017 to Feb 2018]											
3	Develop and Run Predictive Scenarios									[Green bar from Jan 2018 to Jun 2018]							
4	Prepare Draft and Final Report														[Green bar from Jun 2018 to Jul 2018]		
5	Project Management, Peer Review and Meetings	[Green bar from May 2017 to Jul 2018]															
					One Kickoff Meeting, Four Workshops and 20 Conference Calls												
					Peer Review				Peer Review				Peer Review				
6	Database Development					[Green bar from Sept 2017 to Jun 2018]											

BASIN MONITORING PROGRAM TASK FORCE STATUS REPORT

**Presented by Mark Norton P.E.,
Water Resources & Planning Manager**

**SAWPA Commission
June 20, 2017**

Critical Success Factors

- SAWPA has a strong reputation as a watershed-wide, knowledgeable, neutral and trusted **facilitator, leader, and administrator** of contracted activities.
- Goals, scope, costs, resources, timelines, and the contract term are **approved by the Commission** before executing an agreement to participate in a roundtable group.
- Report and use results of roundtable's work, **leverage information** and involvement for the benefit of SAWPA, its members, and other stakeholders.

Basin Monitoring Program Task Force

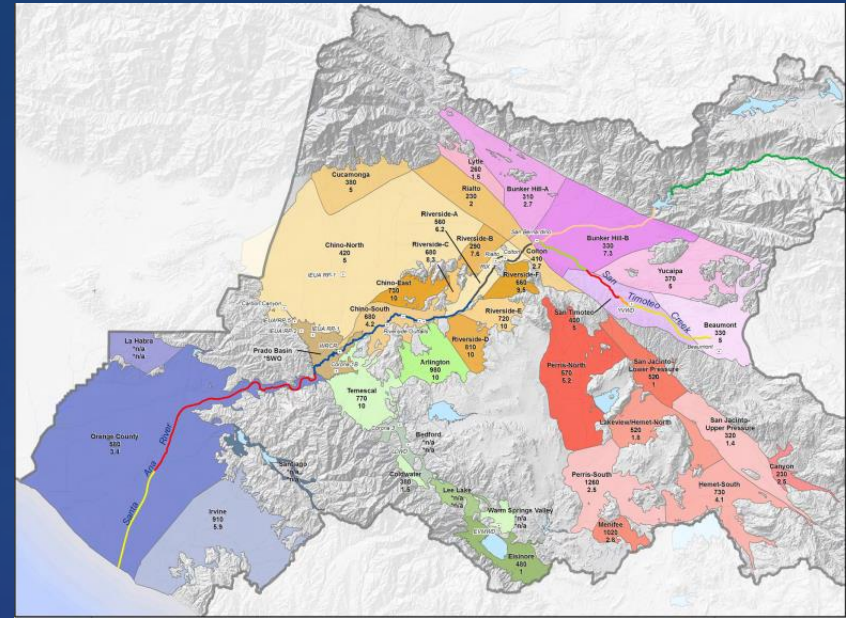
SAWPA authorized agreement in 2004

Benefits

- Regional support in reducing regulatory compliance for 20 agencies by \$10-\$99 million in avoided WWTP desalting according to TIN TDS Study final report

Description

- Conducts analysis of TDS and nitrate in watershed groundwater every three years to identify trends
- Annual Santa Ana River (SAR) water quality report
- SAR Wasteload Allocation to confirm compliance of river discharges with ground water quality objectives



Budget: \$404,722 (FYE 2018)

Total FTE: 0.16

Funding Source: Task Force Agency Contributions

Basin Monitoring Program Task Force

Eastern Municipal Water District	Chino Basin Watermaster
Inland Empire Utilities Agency	Yucaipa Valley Water District
Orange County Water District	City of Beaumont
City of Riverside	City of Corona
Lee Lake Water District	City of Redlands
Elsinore Valley Municipal Water District	City of Rialto
Irvine Ranch Water District	Jurupa Community Services District
Colton/San Bernardino Regional Tertiary Treatment and Wastewater Reclamation	Western Riverside Co Regional Wastewater Authority
*San Bernardino Valley Municipal Water District	*City of Banning
* San Gorgonio Pass Water Agency	* Beaumont Cherry Valley Water District

- Santa Ana Regional Board also a non-funding task force agency

Risk Sciences Task Order Scope

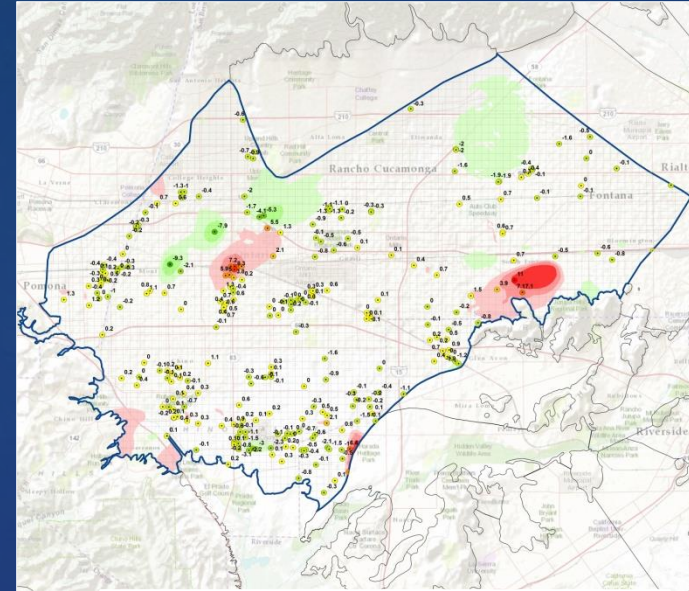


- Draft text of the proposed Basin Plan amendment for nitrate objective change for Chino South Management Zone.
- Draft Regional Board staff report providing legal and technical justification for revising the nitrate objective, including the required antidegradation analysis.
- Draft text of the proposed Basin Plan amendment for Santa Ana River Wasteload Allocation (WLA)
- Draft Regional Board staff report providing legal and technical justification for approving the updated (WLA)
- Regulatory support to the Task Force

CDM Smith Task Orders

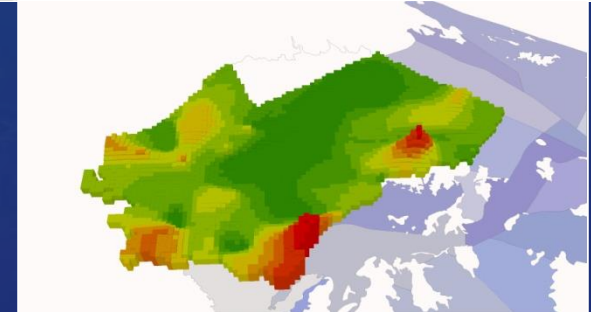
Triennial Ambient Water Quality Update

- A rigorous, science-based estimate of Ambient Water Quality (AWQ) conducted every three years using the exact methodology as AWQ determinations used in objective setting period and subsequent recomputations.
- Daniel Stephens & Associates (Subcontractor)



Supplemental Environmental Documents and Economic Analyses for Chino South Management Zone and Santa Ana River Wasteload Allocation

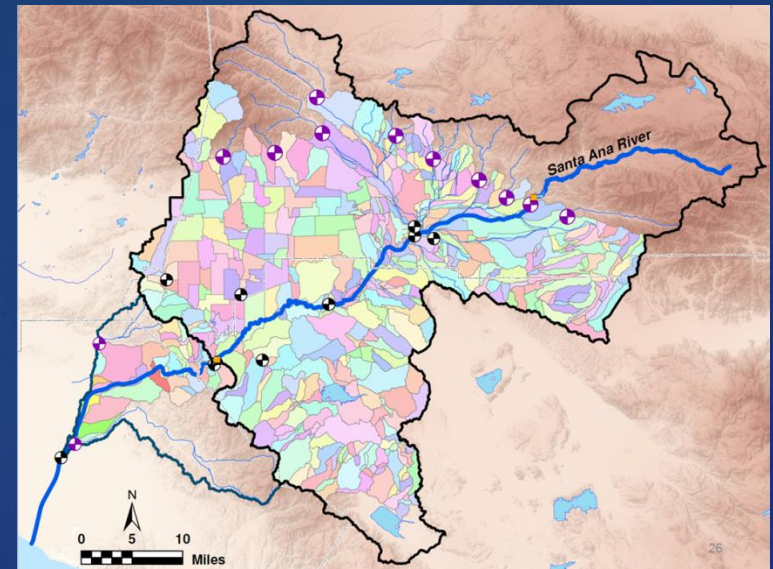
- Required Regional Board documents necessary to implement Basin Plan Amendments



Geoscience Task Order

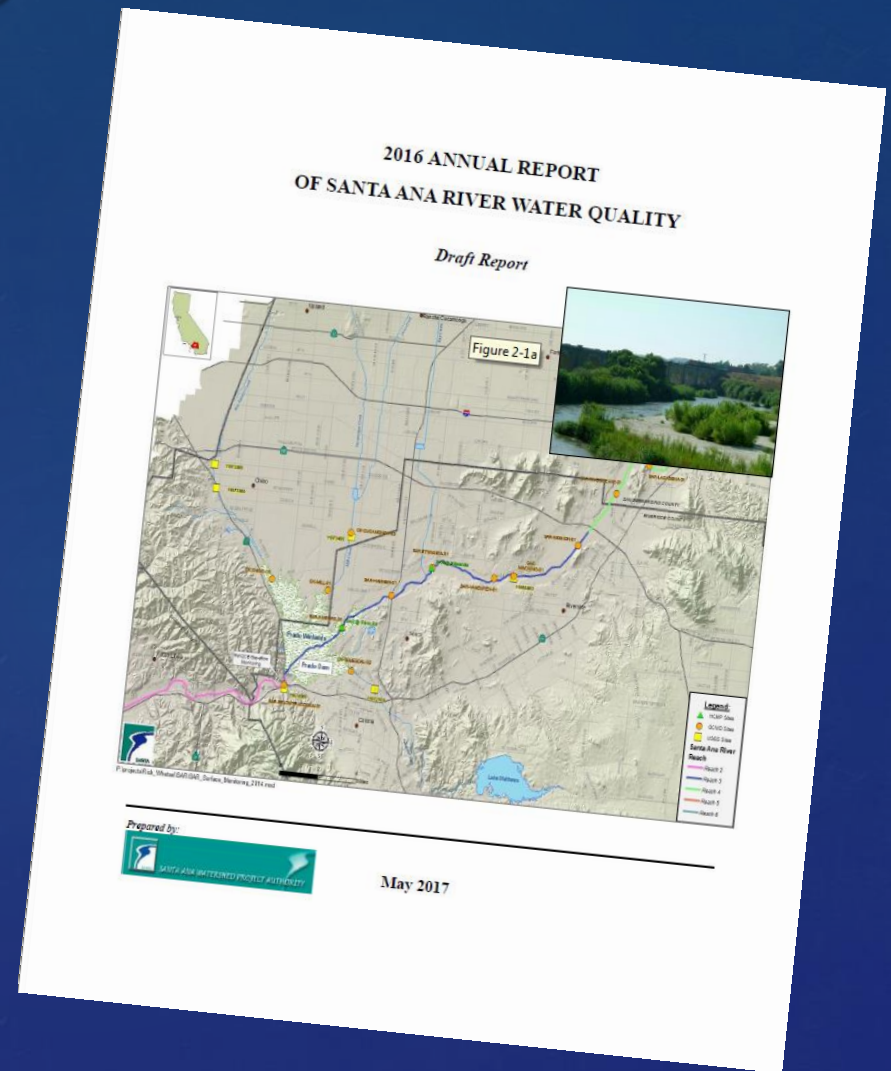
Santa Ana River Wasteload Allocation Model Update

- Calibrate and apply new Hydrologic Simulation Program Fortran (HSPF) model to estimate projected flows and TDS and Nitrate-N concentrations of the Santa Ana River recharge water and discharge at Prado Dam
- Links to OC Recharge Facilities Model downstream of Prado Dam
- Reflect updated changes in land use and runoff coefficients
- Update stormwater facilities maps
- Simple Windows-based graphical user interface to rerun model



SAWPA Tasks

- Prepare Annual Santa Ana River Water Quality Report
- Administration, budget preparation, invoicing, and management for Basin Monitoring Program Task Force
- Evaluate and negotiate contracts and subsequent change orders
- Status reports to SAWPA Commission



Future Task Force Actions

- Complete triennial ambient groundwater quality update (Sept. 2017)
- Implement Basin Plan Amendments for Chino South (Aug. 2017) and SAR Wasteload Allocation (Oct. 2017)
- Complete updated SAR Wasteload Allocation (Dec. 2017)
- Revisions to Basin Plan to accommodate drought impacts and permit compliance issues (Dec. 2017)



Questions?

TECHNICAL WRITER/GRANT WRITER JUSTIFICATION

**Presented by Mark Norton P.E.,
Water Resources & Planning Manager**

**SAWPA Commission
June 20, 2017**

SAWPA Strategic Assessment

Processes, Activities and Tasks – Nov. 15 & Dec. 6th, 2016 SAWPA Commission Mtgs

- OWOW Evaluation
 - 1576- 4150 hrs tasks shortfall thru FY 2020
 - Reflects need of at least one additional FTE to achieve “A level”
- Roundtables Evaluation
 - 395 - 535 hrs tasks shortfall thru FY 2021
 - Reflects need of additional staff labor hours to achieve “A level”
- Technical Writer/Grant Writer position discussed in the past to support new grants and benefit communication for both Roundtables and OWOW

Technical Writer Duties and Roles



Technical/Grant Writer Duties help leverage resources

- Position focuses primarily as staff to all of SAWPA in technical writing and outreach support, then secondarily on grant applications.
- Would be funded from SAWPA contributions to OWOW and Roundtable stakeholders
- Fulfills SAWPA Strategic Assessment need to address OWOW and Roundtable goals and objectives
- Improves ability to communicate Roundtable successes to leverage other dollars
- Improves prioritization and beneficial outcome of lower priority Roundtable projects

Why not just contract out these services?

In-house staff preferred:

- Supports succession planning
- Services are not just one event but for every year
- Better able to control schedule and priorities
- Otherwise multiple consultants with multiple contracts – less cost efficient
- Assistance with ongoing technical writing of OWOW Plan Update and watershed messaging
- Staff position has better understanding of organization, Roundtables and OWOW to produce outreach material

Grant Writer Role – Pursues all types of grants



Grant Writing Opportunities

■ Pacific Institute -	\$ 100,000
■ Bechtel Foundation -	\$ 500,000
■ Walmart Foundation -	\$ 100,000
■ Sierra Fund -	\$ 80,000
■ Non-OWOW State Grants	\$1,000,000
■ Federal grants – USFS,USFWS	\$ 500,000
■ Other philanthropic orgs	<u>\$ 500,000</u>
Potential Additional Funding	\$ 3 million

Backup Slides

#	OWOW Process, Activity, or Task	2016		2017				2018				2019				2020		Estimated Annual Hours Needed for "A" Level				FYE 2017 Budget Hours	Difference between Budgeted Hours and Need			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	FY 16-17	FY 17-18	FY 18-19	FY 19-20	Annual	FY 16-17	FY 17-18	FY 18-19	FY 19-20
	OWOW Plan Development																1635	1980	1650	610	1640	5	(940)	(10)	1,030	
3	Engage with stakeholders through general workshops and Pillar workgroups to assess progress towards achievement of OWOW objectives as well as to provide benefits of multi-benefits of watershed wide thinking and planning.	20		20	20	20	20	20	20	20	20						60	80	40	0	20	(40)	(60)	(20)	20	
4	Support and train OWOW stakeholders in use of regional GIS functionality and OWOW project tracking tools.			50	50	50	50	50	50	50	50						100	200	200	0	100	-	(100)	(100)	100	
5	Prepare annual watershed health assessment tracking watershed's progress toward sustainability and resiliency.					80	80			80	80			80	80		0	160	160	160	40	40	(120)	(120)	(120)	
6	Update the OWOW Plan every 3-4 years or more frequently as needed to reflect current regional water resource needs, knowledge, data, or policy.	200	200	200	200	200	200	200	200	400	400						800	800	800	0	800	-	-	-	800	
14	Develop and implement data collection, storage and distribution to improve regional utilization of data and information generated in the watershed.	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	160	160	160	160	80	(80)	(80)	(80)	(80)	
18	Conduct post assessment of project impacts and beneficial uses of past OWOW Plan and scoping for next OWOW plan update		40	40													80	0	0	0	20	(60)	20	20	20	
19	Convene Pillar chairs, arrange regular workshops and serve as liaison, facilitator, presenter and coordinator during OWOW planning phase, OWOW funding and selection criteria and OWOW project implementation support.		145	145	145	145	145	145	145	145	145			145	145		435	580	290	290	580	145	-	290	290	
	OWOW Administration																800	1400	920	1280	790	(10)	(610)	(130)	(490)	
1	Prepare standard progress reporting on scope, schedule, & deliverables.	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	80	80	80	80	40	(40)	(40)	(40)	(40)	
2	Implement a regular process (bi-annually) for budgeting and confirming or adjusting priorities and resources.			40		40		40		40		40		40		40	80	80	80	80	40	(40)	(40)	(40)	(40)	
7	Train and retain all staff with capacity to conduct OWOW administrative functions including accounting, data management, communication, and maintenance functions.	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	240	240	240	240	100	(140)	(140)	(140)	(140)	
10	Provide support to OWOW governance (Steering Committee and SAWPA Commission) to ensure successful administration and approval of OWOW planning and project implementation	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	280	280	280	280	100	(180)	(180)	(180)	(180)	
13	Maintain and/or upgrade state-of-the-art communication and meeting facilitation systems at SAWPA.			C								C					C		C		40		-	-	-	
15	Institute and administer OWOW Calls for Projects and Project Selection with criteria that reflects a systems approach, that encourages multi-benefit, multi-jurisdictional integrated regional projects and programs					240	240							240	240		0	480	0	480	480	480	-	480	-	
16	Produce and implement communications strategy, plan and outreach to describe SAWPA's successes and capabilities under OWOW. Conduct outreach through SAWPA webpage, social media and annual OWOW conferences.				120											120	120	120	120	120	0	(120)	(120)	(120)	(120)	
17	Evaluate Calls for Projects, Project Selection and Grant Application efforts and successes for future process improvement															120	0	120	120	0	30	30	(90)	(90)	30	
	OWOW Grant Application and Implementation																3,736	4,240	4,148	3,156	1,040	(2,696)	(3,200)	(3,108)	(2,116)	
11	Successfully apply for, and receive all available State grant funding under IRWM programs designated for the Santa Ana River Watershed	80	80	80		80	80	80	80	80	80			80	80	80	240	240	160	240	320	80	80	160	80	
12	Identify, pursue, secure and administer additional funding for integrated water resources management planning, projects and programs.	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	1220	1220	1220	1220	60	(1,160)	(1,160)	(1,160)	(1,160)	
21a	Implement or construct SAWPA programs and projects OWOW Plan assigned by SAWPA Commission - SAWPA Project Agreement 22 Committee administration, WUE tasks, budget based water rate support, aerial mapping and area measurement tasks, WUE outreach tools, SARCCUP WUE tasks.	268	268	268	268	268	268	268	268	268	268	268	268	120	120	120	120	1,072	1,072	1,072	480	660	(412)	(412)	(412)	180
21b	Implement or construct SAWPA programs and projects OWOW Plan assigned by SAWPA Commission - SAWPA Project Agreement 23 Committee administration, SARCCUP program mgt consultant, Decision Support Tool, Planning Managers, etc.	141	141	141	141	127	127	127	127	124	124	124	124	124	124	124	124	564	508	496	496	0	(564)	(508)	(496)	(496)
21c	Implement or construct SAWPA programs and projects OWOW Plan assigned by SAWPA Commission - Prop 1 Disadvantaged Community Involvement tasks	160	160	160	160	300	300	300	300	300	300	300	300	360	360			640	1,200	1,200	720	0	(640)	(1,200)	(1,200)	(720)
	OWOW SAWPA Grant Administration																5,870	5,870	5,870	5,870	5,870	-	-	-	-	
8	Exercise SAWPA's fiduciary responsibility in administering and overseeing the appropriate use of all grant funds awarded to SAWPA and to OWOW project proponents by the State	1393	1393	1393	1393	1393	1393	1393	1393	1393	1393	1393	1393	1393	1393	1393	5,870	5,870	5,870	5,870	5870	-	-	-	-	
	Total Hours by Fiscal Year	12,041		13,490				12,588				10,916				12,041	13,490	12,588	10,916	9,340	(2,701)	(4,150)	(3,248)	(1,576)		

#	Roundtables Process, Activity, or Task	2016		2017		2018		2019		2020		2021		Estimated Annual Hours Needed for "A" Level					FYE 2017 Budget Hours	Difference between Need and Budgeted Hours								
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	Annual	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
	Roundtables Administration																1070	930	1070	930	1070	810	(260)	(120)	(260)	(120)	(260)	
2	Implement a regular annual process for confirming or adjusting priorities and resources.			10				10				10				10	10	10	10	10	10	10	-	-	-	-	-	
5	Track the implementation of identified solution(s) resulting from each Roundtable.		40				40				40				40		40	40	40	40	40	10	(30)	(30)	(30)	(30)	(30)	
6	Prepare and implement standard criteria, review, and approval process for accepting new potential Roundtables activities.		20							20					20		20	0	20	0	20	10	(10)	10	(10)	10	(10)	
7	Train and retain all staff involved in supporting Roundtables including accounting, data management, communication, and maintenance functions.			120											120		120	0	120	0	120	40	(80)	40	(80)	40	(80)	
8	Prepare Roundtables annual budgets showing cost breakdown of costs by agency, revenue needs and obtain Roundtables approval; include budgets in SAWPA budget.			240				240			240				240		240	240	240	240	240	240	-	-	-	-	-	
9	Manage all accounting functions of Roundtables including invoice letter preparation, invoices, monthly labor and expense review and monitoring, and all other financial transactions using accepted accounting practices and dedicated, interest bearing accounts for each Roundtable.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	120	120	120	120	120	120	-	-	-	-	-
12	Maintain and/or upgrade SAWPA facilities and virtual meeting capabilities.			90											90		C	C	C	C	C	60						
17	Manage and coordinate the Roundtables implementation of projects and programs to ensure high quality results, compliance with State and Federal regulations, satisfactory project relations and adherence to established standards, specifications, and Agency policies.	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	200	200	200	200	200	140	(60)	(60)	(60)	(60)	(60)	
29	Prepare grant applications to supplement project/ program funding			320				320			320				320		320	320	320	320	320	240	(80)	(80)	(80)	(80)	(80)	
	Roundtables Communication & Outreach																1150	1150	1150	1150	1150	915	(235)	(235)	(235)	(235)	(235)	
1	Prepare standard progress reporting twice a year on scope, schedule, deliverables, and budget for each Roundtable and share with SAWPA Commission.		40		40			40		40		40		40		40	80	80	80	80	80	80	-	-	-	-	-	
3	Engage with Roundtables at key milestones to assess group progress and results towards achievement of workplan objectives; distribute information collected and developed under Roundtable efforts. Share and integrate results with other Roundtables, internal SAWPA Departments and other stakeholders to avoid duplication and improve efficiency.				120										120		120	120	120	120	120	40	(80)	(80)	(80)	(80)	(80)	
13	Work directly with other agencies to obtain necessary water resource data related to a specific Roundtable; screen, filter, and prepare data to ensure compatibility with Agency computer systems; develop and maintain standard data protocols to improve regional utilization of data and information generated in the watershed; provide access to project database for consultant use upon approval of impacted Roundtable members.	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	160	160	160	160	160	125	(35)	(35)	(35)	(35)	(35)	
14	Prepare newsletter articles, brochures, fact sheets and project and program descriptions for distribution and posting on website.			100				100			100				100		100	100	100	100	100	20	(80)	(80)	(80)	(80)	(80)	
27	Perform liaison and coordination activities including presentations to the SAWPA Commission, Committees, other agencies, regulators and public interest groups in relation to each Roundtable; participate in and represent the Agency in meetings with the public, citizen groups, NGOs, professional associations, private firms, and other agencies; make recommendations to executive staff and the Commission.	80	80	80	80			120	120			120	120			120	240	240	240	240	240	200	(40)	(40)	(40)	(40)	(40)	
31	Conduct regular Roundtables meetings including preparation of meeting agendas, meeting notes, meeting location, audio-visual setup; prepare minutes; receive and respond to comments; conduct followup coordination with Roundtables consultants; post all handouts, presentations, reports and other resource material related to Roundtables to respective Roundtable webpages.	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	450	450	450	450	450	450	-	-	-	-	-	
	Roundtables Facilitation																560	560	560	560	560	540	(20)	(20)	(20)	(20)	(20)	
21	Attend Regional Board and State Board meetings as needed to provide oral status report of Roundtables studies prior to consultant presentations.				40										40		40	40	40	40	40	20	(20)	(20)	(20)	(20)	(20)	
15	Serve as leader, facilitator and in some cases, Chair, of the Roundtables meetings to ensure consensus; review and prepare for future meeting agendas including pre-meeting conference calls, as necessary, with key consultants and Roundtable members.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	120	120	120	120	120	120	-	-	-	-	-	
26	Facilitate related Scoping Committee meetings, Technical Review Committee meetings, and Consultant coordination meetings	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	400	400	400	400	400	400	-	-	-	-	-	
	Roundtables Implementation																520	520	520	520	520	500	(20)	(20)	(20)	(20)	(20)	
16	Conduct studies, research or analyses including data, maps, charts, tables, diagrams, reports and fact sheets as requested by Roundtables members and SAWPA related to specific Roundtables activities.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	120	120	120	120	120	100	(20)	(20)	(20)	(20)	(20)	
18	Prepare scope of work, RFPs and RFQs for consultant services; evaluate and assist in the selection of consultants; provide administration of all contracts for assigned projects and programs; evaluate and critique work products of consultants including technical reports, memoranda, power point presentations and environmental documents; respond to correspondence as needed		120		120			120	120			120	120			120	240	240	240	240	240	240	-	-	-	-	-	
24	Prepare all Roundtables formation Agreements, Funding Agreements, Consultant Agreements, Task Orders and Amendments			160				160			160				160		160	160	160	160	160	160	-	-	-	-	-	
	Total Hours by Fiscal Year		3,300			3,160				3,300					3,300	3,300	3,160	3,300	3,160	3,300	2,765	(535)	(395)	(535)	(395)	(535)		