



**SCV**  
**WATER**

# **PFAS Update**

**SCV Water Board of Directors**

**January 19<sup>th</sup>, 2021**

# Agenda

- Introduction to PFAS
- Background
- Impacts to SCV Water Supply Reliability
- Agency's Response and Outreach
- N-Well Proof of Concept
- Budget Implications



# What are PFAS

- Per- and polyfluoroalkyl substances
- Found in non-stick cookware, shampoo, food wrappers, firefighting foam, cleaning products

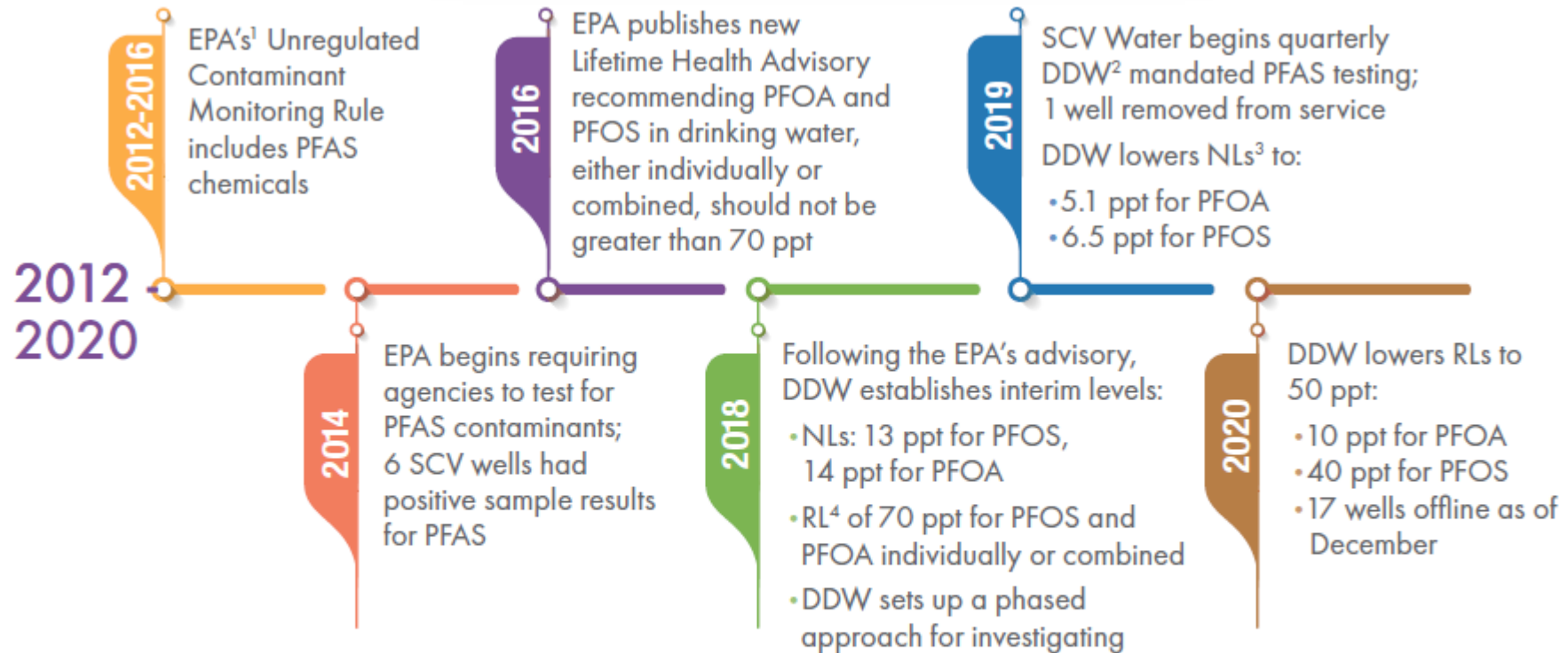
**PFAS** are in **1,000s** of commonly used **products** and the **environment**



# Notification and Response Levels

- NL and RL set by State of California Division of Drinking Water (DDW)
- Notification Level (NL) - Requires agencies to notify government officials when PFAS concentrations exceed the following levels
  - PFOA 5.1ppt and PFOS 6.5ppt
- Response Level (RL) - the concentrations at which a well is recommended to be removed from service. Continued use of the source requires notification to all customers.
  - PFOA 10ppt and PFOS 40ppt

# PFAS IN SCV WATER TIMELINE



<sup>1</sup>EPA = Environmental Protection Agency

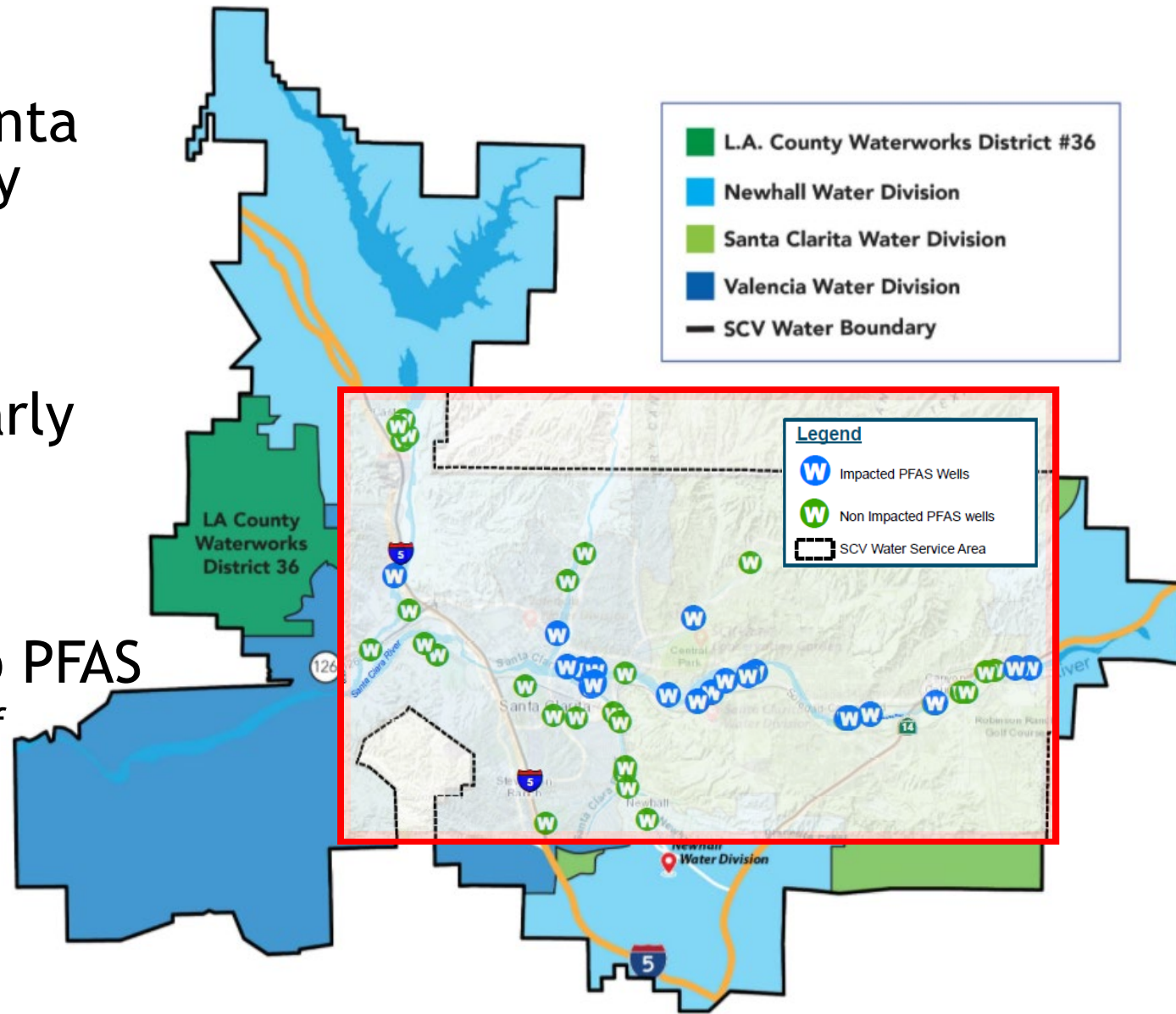
<sup>2</sup>DDW = Division of Drinking Water

<sup>3</sup>NL = Notification Level

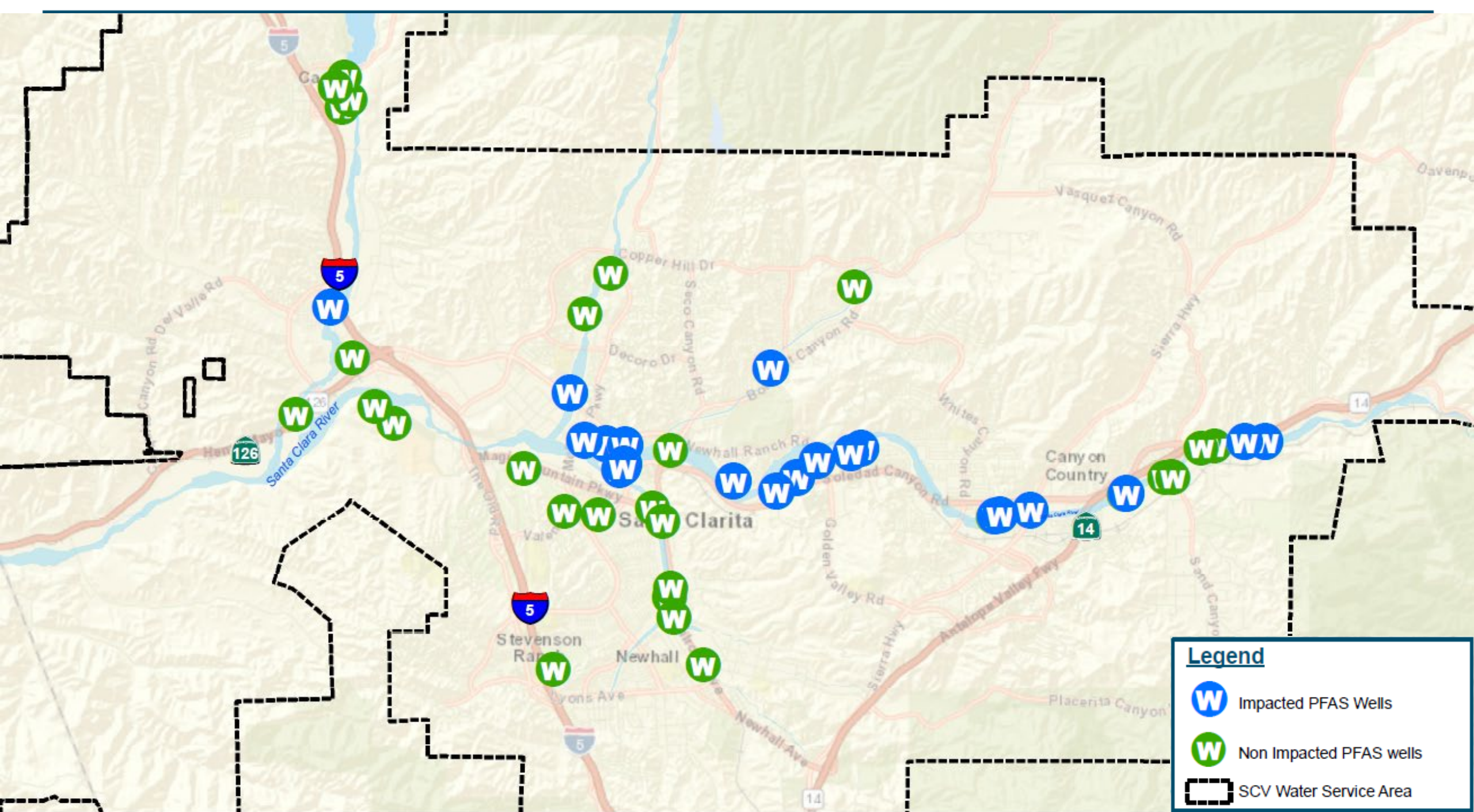
<sup>4</sup>RL = Response Level

# Reliability




- Approximately 237,000 Santa Clarita Residents served by
  - Local Groundwater
  - Imported Water Supply
  - Recycled Water
- Groundwater provides nearly half of the water supply delivered to customers annually.
- 17 wells are offline due to PFAS
  - These wells account for ~40% of available groundwater supply







**Legend**

-  Impacted PFAS Wells
-  Non Impacted PFAS wells
-  SCV Water Service Area

# Taking Action

- Formed PFAS Strike Team of staff and key consultants
- Commissioned bench testing of carbon and resin media
- Identified short list of priority system interconnections and enhancements
- Pre-ordered vessels
- N-Wells Proof of Concept Completed December 2020
- Treatment Implementation Plan Drafted with Assistance from Kennedy Jenks Consultants



# Outreach

- Prioritized transparent communication to customers, elected officials and other stakeholders
- Dedicated web page at <https://yourscvwater.com/pfas/>
- Other collateral and methods:
  - Press releases
  - Email newsletters
  - FAQs and fact sheets
  - Video
- Awards for Outreach:
  - Award of Distinction from CA Association of Public Information Officials (CAPIO)
  - PRism Award from the LA Chapter of the Public Relations Society of America (PRSA)

# N-Wells Treatment

- Treatment of 3 wells near the William S. Hart Baseball fields.
- Restoration of approximately 6,250 gpm







# Well Prioritization for PFAS Treatment Near-Term Goals

Priority	Wells	Flow (gpm)	Treatment Location	Est. Rest. Date
1	N-1, N-7, N-8	6,250	Near Well N1	Dec, 2020
2	Valley Center Well	1,200	Valley Center Well	Mar, 2022
3	Honby & Santa Clara Wells	2,450	Sand Canyon Pump Stn	July, 2022
4	T-7, U-4, U-6	3,450	Rio Vista Intake Pump Station	Sep, 2023
5	S-6, S-7, S-8, S-9	7,000	West of S-8	Jan, 2024
6	E-14, E-15, E-16, E-17	4,800	Henry My Dr & Commerce Center	Feb, 2024



# Well Prioritization for PFAS Treatment Long-Term Goals

Priority	Wells	Flow (gpm)	Treatment Location
7	W-10	1,500	24631 Ave Rockefeller
8	North Oaks Central & East	2,150	27077 Hidaway Ave
9	Sierra	1,000	27515 Sierra Hwy
10	Well D	1,050	Well D
11	Lost Canyon 2, 2A, Michelle 5B	2,325	Between Sand Cyn and Lost Cyn 2A
12	Clark	550	Clark Well
13	Pinetree P1, P5	800	Soladad Cyn Dr (Bet Flower Park & Poppy Meadow)



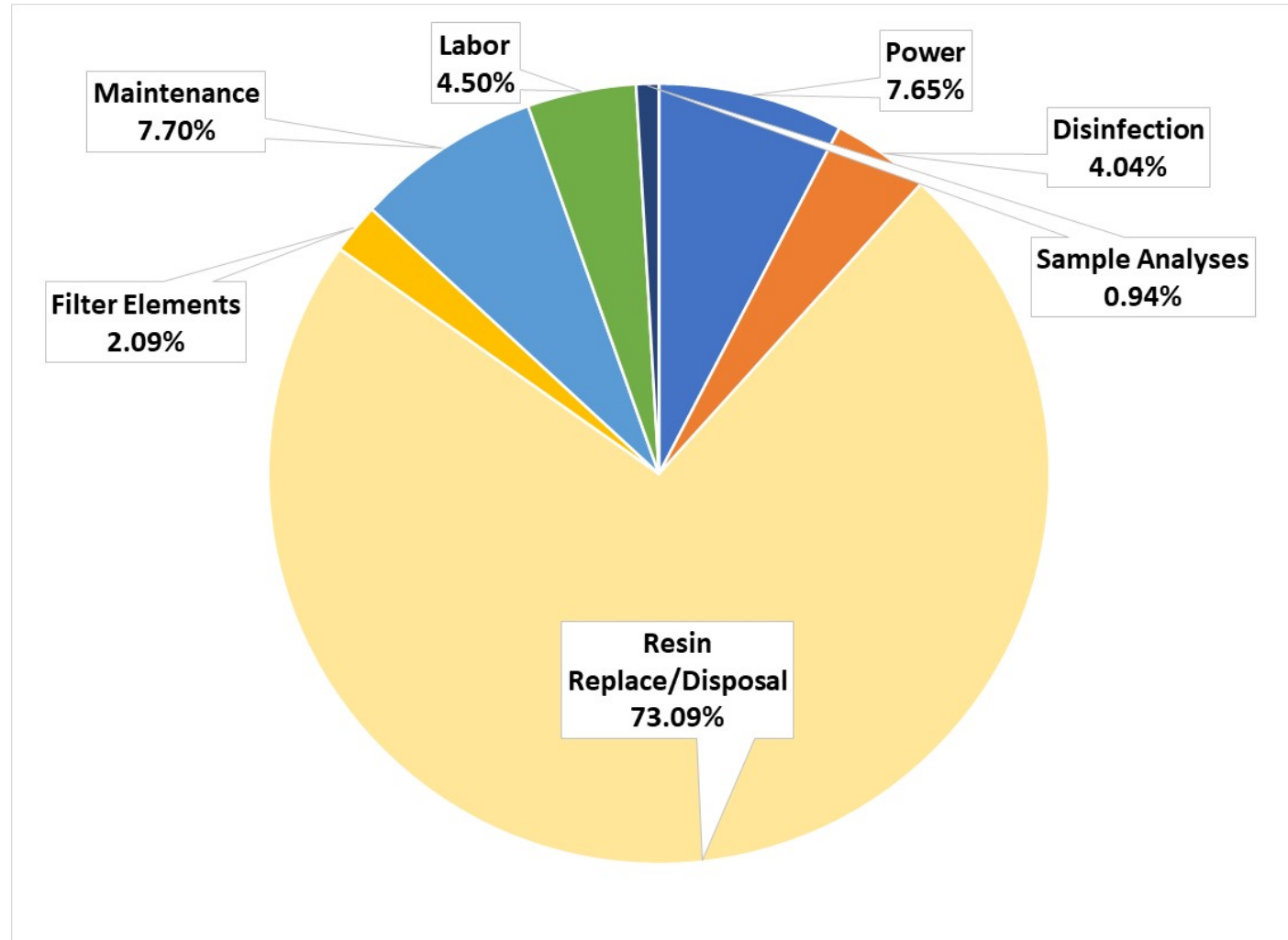
# Capital Cost Estimates for PFAS Treatment

Priority: Zone	Well Group	Flow (gpm)	# of Vessels	Pipeline (ft)	Cost of Piping	Treatment Cost	Total Cost
1: IIA-N	N Wells (3)	6250	6	-	-	\$ 11,448,000	\$ 11,448,000
2: Honby	Valley Center (1)	1200	2	-	-	\$ 5,120,000	\$ 5,120,000
3: Honby	Honby-Santa Clara (2)	2450	4	1300	\$ 508,000	\$ 7,565,000	\$ 8,073,000
4: IIA-N	T&U Wells (3)	3450	4	-	-	\$ 8,447,000	\$ 8,447,000
5: I	E Wells (4)	4800	6	7100	\$ 3,429,000	\$ 11,175,000	\$ 14,604,000
6: IIA-N	S Wells (4)	7000	6	3900	\$ 2,770,000	\$ 13,969,000	\$ 16,739,000
7: IIA-N	W-10 (1)	1500	2	-	-	\$ 5,120,000	\$ 5,120,000
8: Honby	N. Oaks C & E (2)	2150	4	-	-	\$ 7,504,000	\$ 7,504,000
9: Honby	Sierra (1)	1000	2	-	-	\$ 4,778,000	\$ 4,778,000
10: I	Well D (1)	1050	2	-	-	\$ 5,120,000	\$ 5,120,000
11: N. Oaks	Lost Canyon & Mitchel (2)	2325	4	3300	\$ 1,038,000	\$ 7,617,000	\$ 8,655,000
12: Catala	Clark (1)	550	2	-	-	\$ 4,778,000	\$ 4,778,000
13: Pinetree	Pinetree (2)	800	2	1300	\$ 666,000	\$ 4,849,000	\$ 5,515,000
<b>Total PFAS Compliance Capital Cost</b>					<b>\$ 8,410,000</b>	<b>\$ 97,490,000</b>	<b>\$105,900,000</b>

# Annual O&M Cost Estimates for PFAS Treatment

Priority	Flow (gpm)	O&M Cost Pre 2022 (\$/yr)	O&M Cost Post 2022 (\$/yr)	Cost Pre 2022 (\$/AF-YR)	Cost Post 2022 (\$/AF-YR)
1: N Wells	6250	\$ 2,321,000	\$ 2,232,000	\$ 591	\$ 221
2: Valley Ctr Well	1200	\$ 594,000	\$ 568,000	\$ 307	\$ 293
3: Honby, Santa Clara	2450	\$ 976,000	\$ 947,000	\$ 425	\$ 240
4: T & U Wells	3650	NA	\$ 1,202,000	NA	\$ 216
5: E Wells	4800	NA	\$ 1,396,000	NA	\$ 180
6: S Wells	7000	NA	\$ 2,696,000	NA	\$ 239
7: W-10	1500	NA	\$ 540,000	NA	\$ 213
8: Oaks Wells	2150	NA	\$ 858,000	NA	\$ 223
9: Sierra	1000	NA	\$ 393,000	NA	\$ 244
10: Well D	1050	NA	\$ 391,000	NA	\$ 231
11: Lost Canyon & Mitchel	2325	NA	\$ 771,000	NA	\$ 206
12: Clark	550	NA	\$ 310,000	NA	\$ 349
13: Pinetree	800	NA	<del>\$ 363,000</del>	NA	\$ 281
			<b>\$12,667,000</b>		

# Breakdown of O&M Cost Components for PFAS Treatment





# Financial Considerations

- Operations and Maintenance (\$12.7 Million/year)
  - Current rate case includes O&M through 2026 (\$22M total over the 5 years, starts at \$2.5M and grows to \$8.5M/year in 2026)
- Capital Cost Options (\$106 Million over next 15 years)
  - \$11M included in recent bond financing (spent on N-Wells)
  - \$10M potentially available through LARC Ranch SWRCB Grant
  - State Revolving Fund Low Interest Loan
  - Additional bond financing
  - Pursue State and Federal Grant Opportunities
  - Pay-Go (Reserve Usage or additional rate increase)



# Summary

- 28 Wells @ 36,000 gpm were identified for PFAS Compliance
- 17 PFAS impacted wells 25,150 gpm are prioritized for restoration in the near term @ \$ 64.5 Million)
- IX was identified as the treatment of choice
- Wells were prioritized based on zone water demand
- Total estimated costs for PFAS compliance
  - Capital \$106 Million
  - Annual O&M \$12.7 Million/year