



Tuesday, March 7, 2023 at 1:00 PM  
Valley Sanitary District Board Room  
45500 Van Buren Street, Indio, CA 92201

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**BOARD OF DIRECTORS  
SPECIAL SESSION  
AGENDA**

Valley Sanitary District is open to the public and board meetings will be conducted in person. In addition to attending in person, members of the public may view and participate in meeting via the following:

Zoom link: <https://us06web.zoom.us/j/81645136325>

Meeting ID: 816 4513 6325

To address the Board of Directors during the virtual live session via zoom, please email the Clerk of the Board at [hgould@valley-sanitary.org](mailto:hgould@valley-sanitary.org) or, alternatively, during the specific agenda item or general comment period (i.e. non-agenda items), please use the "raise your hand" function in zoom in order to be recognized by the Clerk of the Board in order to provide comments in real time.

The Clerk of the Board will facilitate to the extent possible any email requests to provide oral testimony that are sent during the live meeting. Members of the public may provide Oral testimony in person or during the virtual live session and are limited to three minutes each. To address the Board in person please complete speaker request card located at in the Board Room and give it to the Clerk of the Board.

If you are unable to provide comments during the meeting, written public comments on agenda or non-agenda items may be submitted by email to the Clerk of the Board at [hgould@valley-sanitary.org](mailto:hgould@valley-sanitary.org). Written comments must be received by the Clerk of the Board no later than 11:00 a.m. on the day of the meeting.

1. CALL TO ORDER
2. ROLL CALL
3. PLEDGE OF ALLEGIANCE
4. PUBLIC COMMENT
5. NON-HEARING ITEMS
  - 5.1 [Discuss the Draft Recycled Water Feasibility Study Report prepared by Carollo Engineers, Inc.](#)

Recommendation: Discuss

5.2 [Discuss Proposed 5-Year Sewer Rates and Provide Direction to Staff](#)

Recommendation: Discuss

5.3 [Adopt Resolution No. 2023-1174 Honoring Dr. Beverli A. Marshall for Her Dedication and Service to Valley Sanitary District](#)

Recommendation: Approve

**6. PUBLIC COMMENT**

*This is the time set aside for public comment on any item to be discussed in Closed Session. Please notify the Secretary at the beginning of the meeting if you wish to speak on a Closed Session item.*

**7. CONVENE IN CLOSED SESSION**

*8.1 Public Employment Recruitment Pursuant to Government Code Section 54957 - Title: General Manager*

*8.2 Conference with Labor Negotiators Pursuant to Government Code Section 54957.6 - Unrepresented Employee: Interim General Manager*

**8. CONVENE IN OPEN SESSION**

**9. ADJOURNMENT**

*POSTED March 3, 2023  
Holly Gould, Clerk of the Board  
Valley Sanitary District*

**PUBLIC NOTICE**

In compliance with the Americans with Disabilities Act, access to the Board Room and Public Restrooms has been made. If you need special assistance to participate in this meeting, please contact Valley Sanitary District (760) 235-5400. Notification 48 hours prior to the meeting will enable the District to make reasonable arrangements to ensure accessibility to this meeting (28 CFR 35.102-35.104 ADA TITLE II). All public records related to open session items contained on this Agenda are available upon request at the Administrative Office of Valley Sanitary District located at 45-500 Van Buren Street, Indio, CA 92201. Copies of public records are subject to fees and charges for reproduction.



## Valley Sanitary District

**DATE:** March 7, 2023  
**TO:** Board of Directors  
**FROM:** Dr. Beverli A. Marshall, General Manager  
**SUBJECT:** Discuss the Draft Recycled Water Feasibility Study Report prepared by Carollo Engineers, Inc.

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### **Suggested Action**

Discuss

### **Strategic Plan Compliance**

GOAL 2: Increase Recycling, Reuse, and Sustainability

### **Fiscal Impact**

The cost of the report was included in the adopted EVRA budget for Fiscal Year 2022-23.

### **Environmental Review**

This item does not qualify as a project as defined by the California Environmental Quality Act (CEQA). Should the project move forward, the CEQA process will be initiated as appropriate.

### **Background**

At the September 6, 2022, EVRA meeting, the Board of Directors authorized Valley Sanitary District's General Manager to execute a contract with Carollo Engineers, Inc. to complete an updated Comprehensive Recycled Water Master Plan. The first step of the process was to conduct a feasibility study utilizing existing data, updated information, and a hydrogeologic groundwater model for injection wells.

After several months of data gathering, analysis, and discussions with staff from both Valley Sanitary District and Indio Water Authority, the consultants have prepared the attached report. Based on the analysis, the consultants concluded that there are several feasible options for non-potable water (NPW), indirect potable water (IPW), and direct potable water (DPW) reuse.

Valley Sanitary District staff will continue working with Carollo to refine these options as well as continue to seek funding for the NPW and IPW project options.

**Recommendation**

Staff recommends that the Board discuss the Draft Recycled Water Feasibility Study Report prepared by Carollo Engineers, Inc. and provide direction to staff.

**Attachments**

[VSD RWMP Meeting January 2023 \(Revised\).pdf](#)

# VSD RWMP Progress Meeting

## AUTHORS

Inge Wiersema, Tony Herda, Renjie Nate Li,  
Binita Thapa, Andy Salveson



January 25, 2022

# Presentation Outline

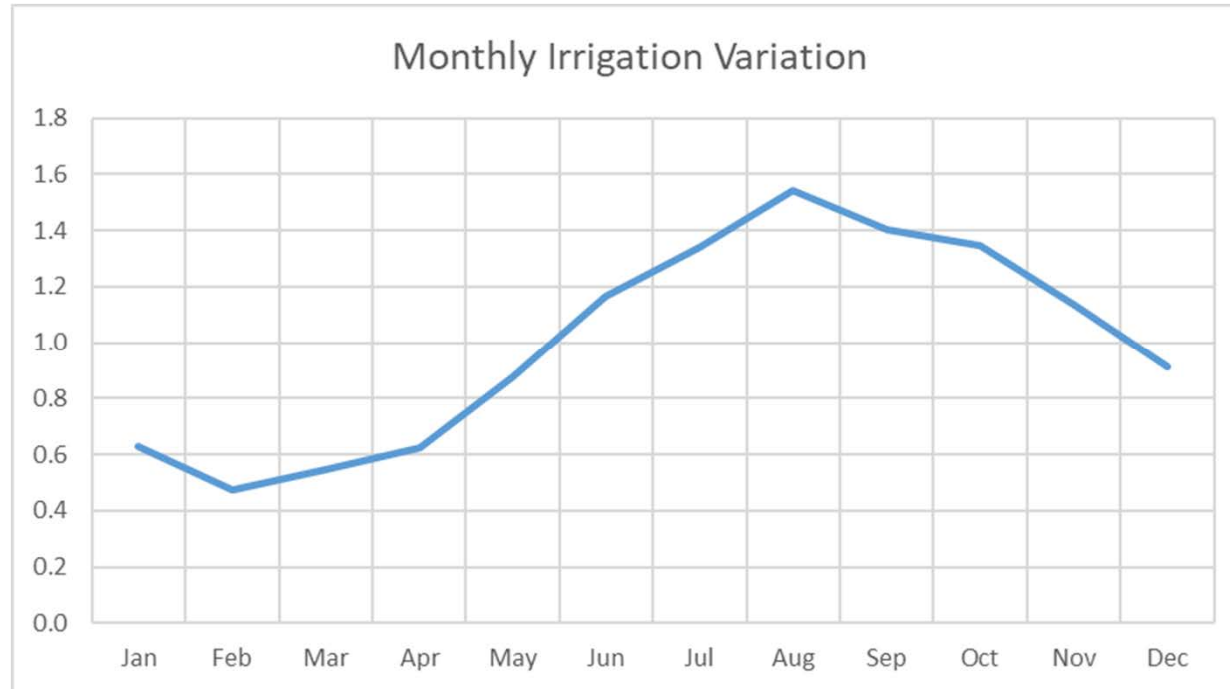
## Topics

- Flows
- NPR
- IPR
- DPR
- Summary and Next Steps

# Flow

# Concept Flows

- Total Flow in 2045: 6.9 MGD
- Low Flow Concept: 1.4 MGD
- High Flow Concept: 6.4 MGD
- IPR and DPR assume conventional recovery of 80%
- NPR uses an MDD peaking factor of 1.85 to calculate supply requirement
- Below is the 2021-2022 monthly demand variation for dedicated IWA irrigation customers (parks, school athletic fields, landscaping)





NPR

# NPR Observations and Constraints

The existing 14-inch dedicated RW pipeline underlying the flood control channel and I-10 may create a bottleneck for peak flows south of the Water Reclamation Facility.

Irrigation demand is high in the summer and lower in the winter. The system will be sized for peak demands, so there will be surplus supply in the winter. NPR may benefit from partnering with adjacent agencies or adding other non-potable supply during peak summer months.

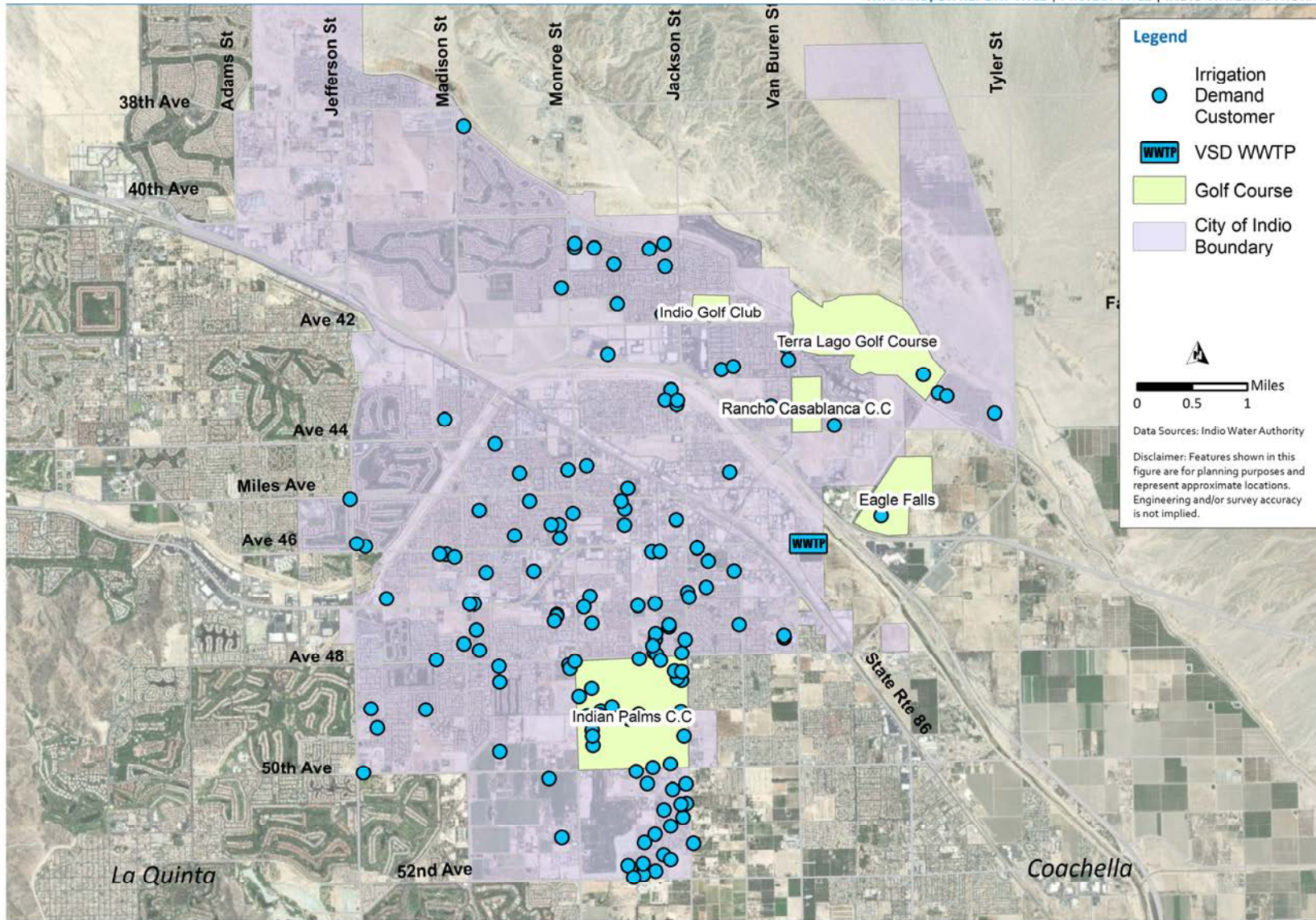
Four Concepts:

- High Flow Rate at 6.4 MGD
- Eagle Falls Golf Course
- Eagle Falls Golf Course plus Irrigation at the Casino
- 4 Northern Golf Courses

# Irrigation Demand

Conversion of Existing Potable Water Irrigation Customers to RW  
Conversion of Existing Golf Courses to RW

TM # AND/OR REPORT TITLE | PROJECT TITLE | INDIOWATER AUTHORITY



# Criteria

## Peaking Factors

- $MDD = 1.85 * ADD$  (maximum month variation plus 20%)
- $PHD = 2.0 * MDD$ , assumptions:
  - 16-hour golf course pond refilling window during the day
  - 8-hour irrigation window for landscaping, parks and schools during the night

## Pipelines

- Maximum pipe velocity under PHD conditions: 5 fps
- Maximum system pressure: 150 psi
- Minimum system pressure: 40 psi

## Storage

- Equalization storage: 20% of one day of MDD (assumes some equalization in the treatment process)
- Operational Storage: 25% of one day of MDD

## Pumping

- MDD

# Unit Costs

## **Transmission and Distribution Cost Assumptions**

Unit Cost : ENR index (greater LA) 13665

Pipeline (range 8-inch @ \$215/foot to 36-inch @ \$668/foot)

Storage (range from 1\$/gallon to \$1.75/gallon based on size)

Pumps (estimate based on total HP)

Markup on Materials and Labor: 60%

Amortization Rate: 4%

Amortization Period

- 20 years for pump stations
- 30 years for pipes and tanks

Infrastructure O&M: 1% of amortized capital costs

Facility O&M: 3% of amortized costs

# NPR High Flow Rate (6.4 MGD)

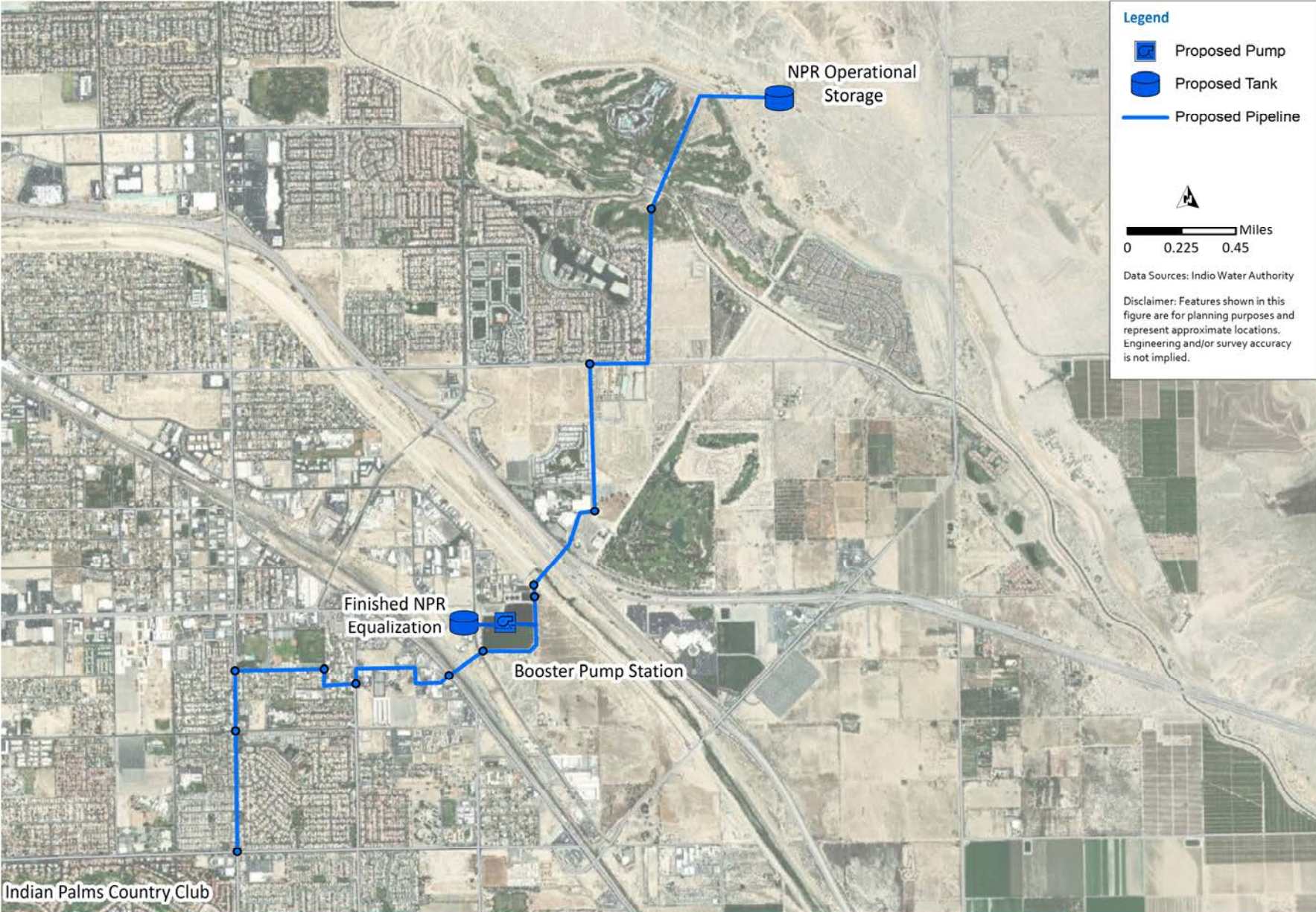


Figure 1 Concept 1

# NPR High Flow Rate (6.4 MGD)

Item	Capital Cost	Amortized Cost	O&M
Pipelines	20,100,000	1,180,000	11,800
Pumping	6,340,000	470,000	14,100
Storage	9,220,000	540,000	5,400
<b>Totals</b>	<b>35,660,000</b>	<b>2,190,000</b>	<b>31,300</b>
AFY			3,910
<b>Unit Cost (\$/AF)</b>			<b>570</b>

- Average Demand: 3,910 AFY
- Surplus RW Supply: 3,260 AFY
- Existing 14-inch dedicated pipeline under the channel and freeway may create a bottleneck for demands south of the Water Reclamation Facility

# NPR Low Flow (Eagle Falls and Casino Irrigation Only)

TM # AND/OR REPORT TITLE | PROJECT TITLE | INDIOWATER AUTHORITY

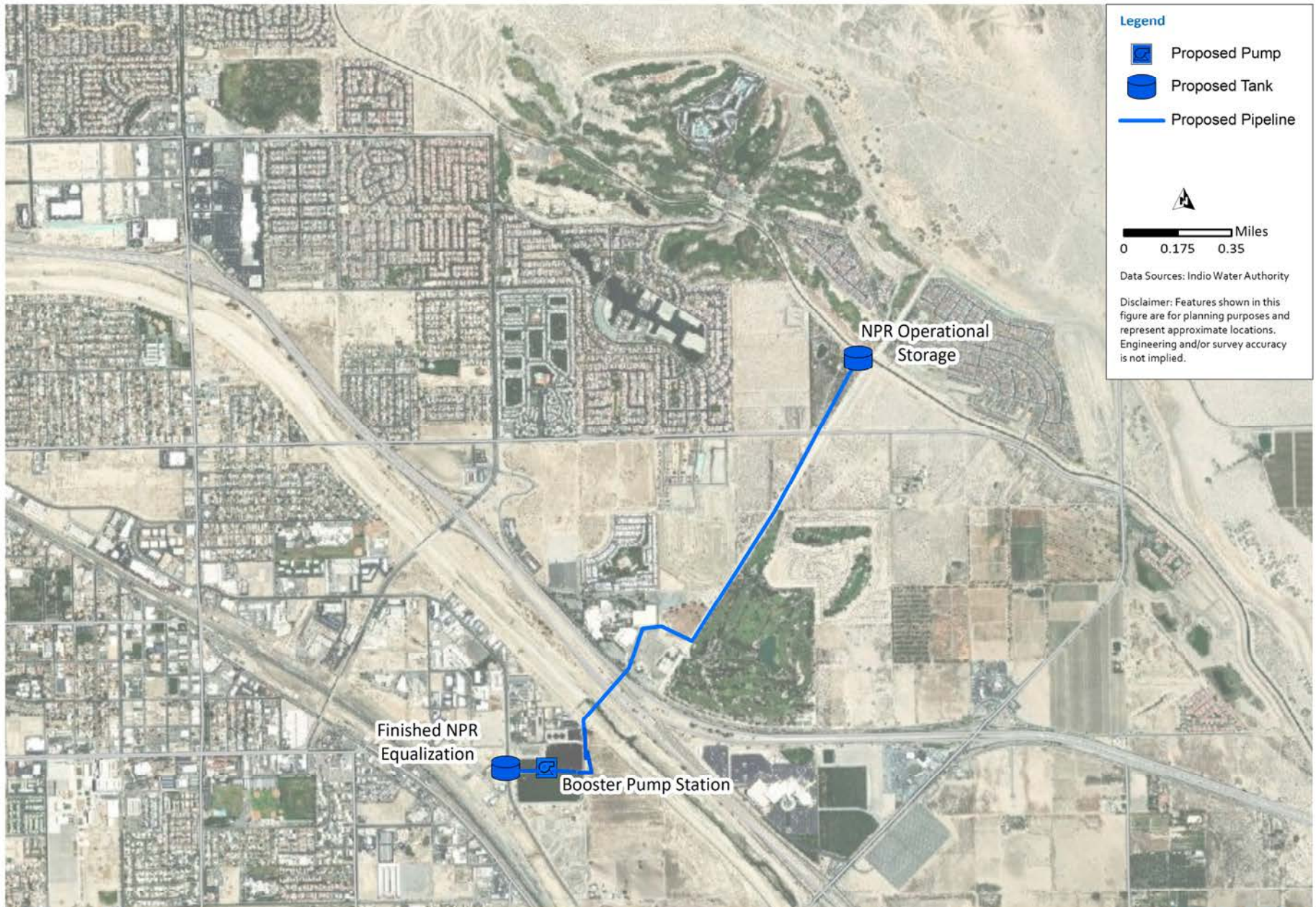


Figure 2 Concept 2A and 2B



# NPR Low Flow (Eagle Falls and Casino Irrigation Only)

Item	Capital Cost	Amortized Cost	O&M
Pipelines	3,830,000	228,000	2,280
Pumping	1,590,000	120,000	3,600
Storage	1,600,000	100,000	1,000
<b>Totals</b>	<b>7,020,000</b>	<b>448,000</b>	<b>6,880</b>
AFY			970
<b>Unit Cost (\$/AF)</b>			<b>470</b>

- Average Demand: 970 AFY
- Surplus RW Supply: 6,200 AFY

# NPR: 4 Northern Golf Courses



# NPR: 4 Northern Golf Courses

Item	Capital Cost	Amortized Cost	O&M
Pipelines	14,680,000	860,000	8,300
Pumping	4,760,000	360,000	10,800
Storage	5,300,000	310,000	3,100
<b>Totals</b>	<b>24,740,000</b>	<b>1,530,000</b>	<b>22,200</b>
AFY			2,750
<b>Unit Cost (\$/AF)</b>			<b>560</b>

- Average Demand: 2,750 AFY
- Surplus RW Supply: 4,420 AFY

# NPR: Eagle Falls Golf Course Only



# NPR: Eagle Falls Golf Course Only

Item	Capital Cost	Amortized Cost	O&M
Pipelines	1,430,000	83,000	8,300
Pumping	500,000	40,000	1,200
Storage	320,000	20,000	200
<b>Totals</b>	<b>2,250,000</b>	<b>143,000</b>	<b>9,700</b>
AFY			877
<b>Unit Cost (\$/AF)</b>			<b>170</b>

- Average Demand: 880 AFY
- Surplus RW Supply: 6,290 AFY
- Uses the on-site lake for operational storage

# Brine Disposal

# Brine Disposal Concept: Evaporation Ponds

**Brine Production:** 20%

**Local annual evaporation rate:** 105 inches per year

**Area Requirement:** Area = Brine Flow/Evaporation Rate

**Evaporation Pond Construction:** excavation, double HDPE liner, monitoring wells. \$325,000/acre

**Land Acquisition** beyond existing 25 acres owned by VSD may be required. \$136,000/acre

**Landfill:** Per Riverside County, VSD will be responsible to determine if solid salt waste is hazardous. Solid salt is likely non-hazardous and may be hauled to the local landfill. Rate: \$65/ton

**Hauling:** The Oasis Landfill is 23 miles away from the Water Reclamation Facility. Rate: \$100/hour (assume 14 tons and 2 hours per load)

IPR



# Observations and Constraints

A fault underlies the Water Reclamation Facility potentially restricting locations for injection wells

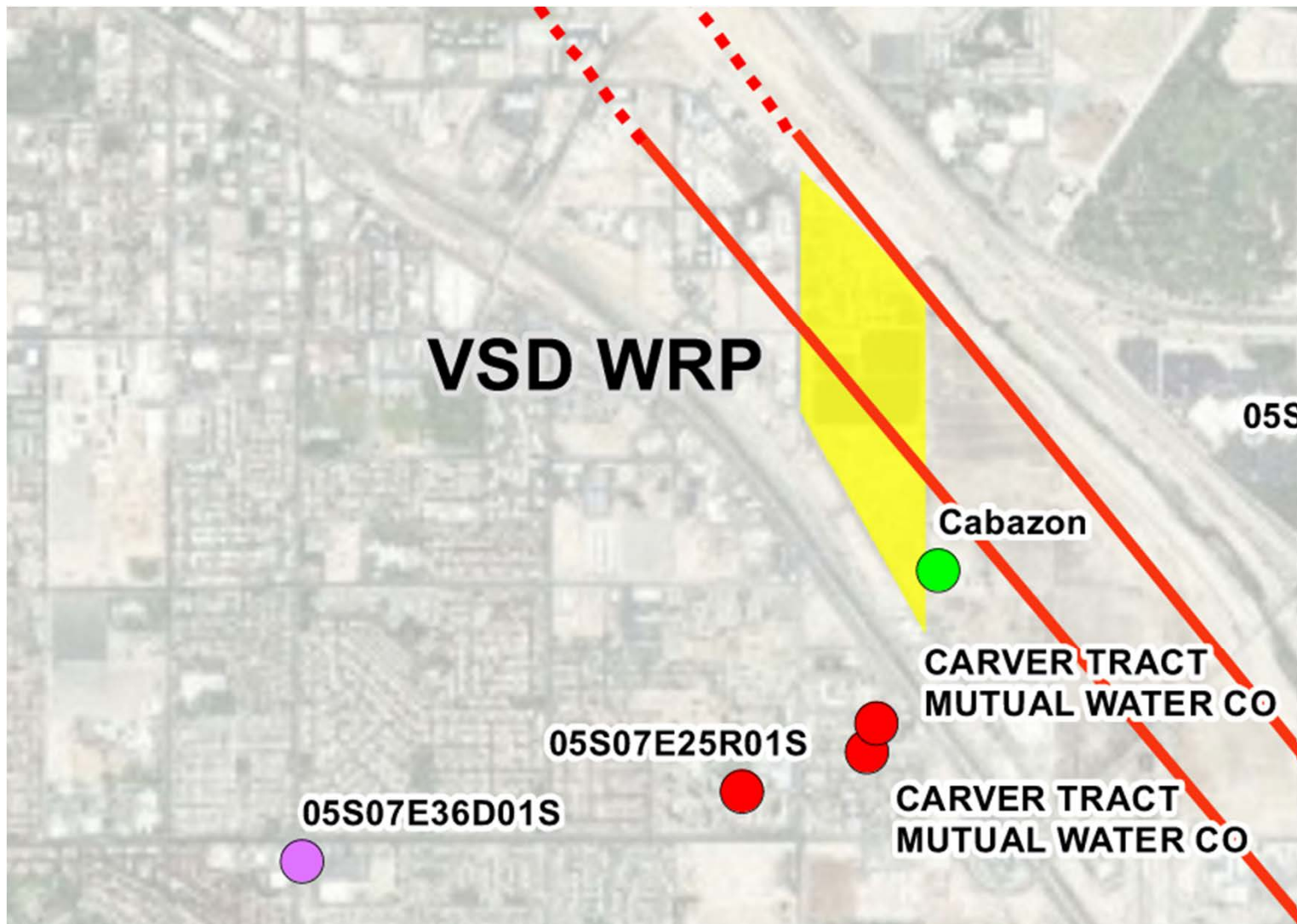
There may be interference between an on-site injection well on the south side of VSD property and the Cabazon well

The recovery rate has yet to be calculated. In general, groundwater flow is to the south, away from existing IWA production wells; however, stabilization of the surface level of the aquifer tends to benefit all pumpers within the influence of the injection wells.

Evaporation for reverse osmosis concentrate requires a large surface area, which may create environmental constraints requiring mitigation for waterfowl, dust control, flooding, and other impacts.

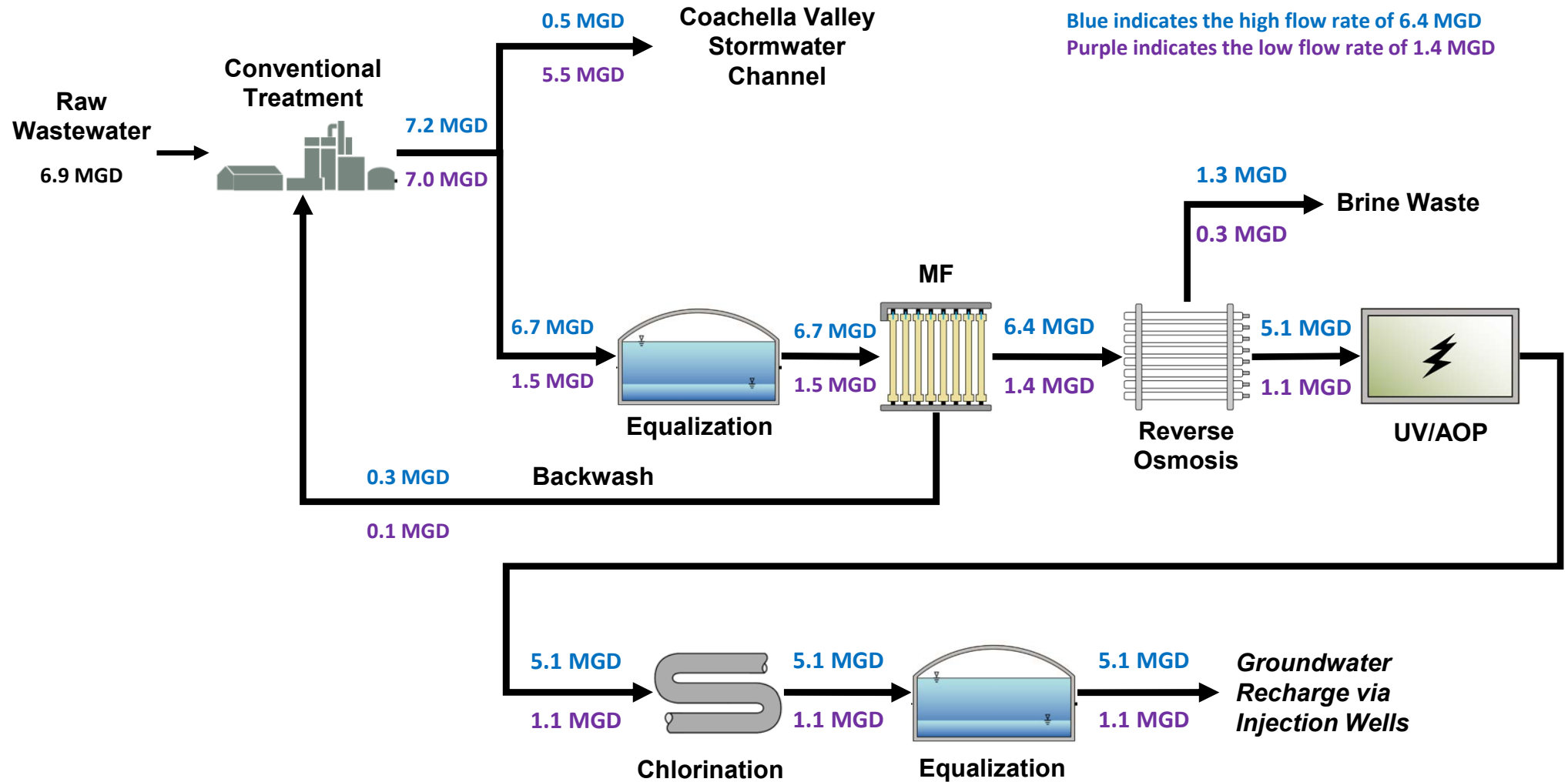
Brine or salt waste may be recycled or reused for acid and caustic production, ion exchange resin regeneration, irrigation and agriculture, deicing, dust control, various industrial manufacturing

# Observations and Constraints



- |   |   |                |
|---|---|----------------|
| ● Well Depth < 500 ft                       | <b>Geoscience Identified Fault Zone</b> | ■ VSD Boundary |
| ● Top Screen < 500 but Well Deeper than 500 | — Identified in Study                   |                |
| ● Well Screen Depth >= 500 ft               | ⋯ Interpolated                          |                |
| ● No Data Available                         | — Quaternary Faults                     |                |

# IPR Process Flow Diagram



# Locations for Injection Wells



# IPR Low Flow (1.4 MGD)

Item	Capital Cost	Amortized Cost	O&M
Treatment	44,900,000	3,300,000	2,027,000
Evaporation Ponds	10,970,000	630,000	107,800
Land Acquisition	4,440,000	260,000	0
Pipelines	1,000,000	60,000	600
Wells	5,280,000	390,000	3,900
<b>Totals</b>	<b>66,590,000</b>	<b>4,640,000</b>	<b>2,139,300</b>
AFY			1,260
<b>Unit Cost (\$/AF)</b>			<b>5,380</b>

## IPR High Flow (6.4 MGD)

Item	Capital Cost	Amortized Cost	O&M
Treatment	93,400,000	6,870,000	5,547,000
Evaporation Ponds	51,890,000	3,000,000	474,800
Land Acquisition	22,110,000	1,280,000	0
Pipelines	7,200,000	420,000	4,200
Pumping	1,240,000	90,000	2,800
Wells	15,800,000	1,160,000	11,700
<b>Totals</b>	<b>191,640,000</b>	<b>12,820,000</b>	<b>6,040,500</b>
AFY			5,740
<b>Unit Cost (\$/AF)</b>			<b>3,290</b>

Economies of Scale result in a lower unit cost

DPR

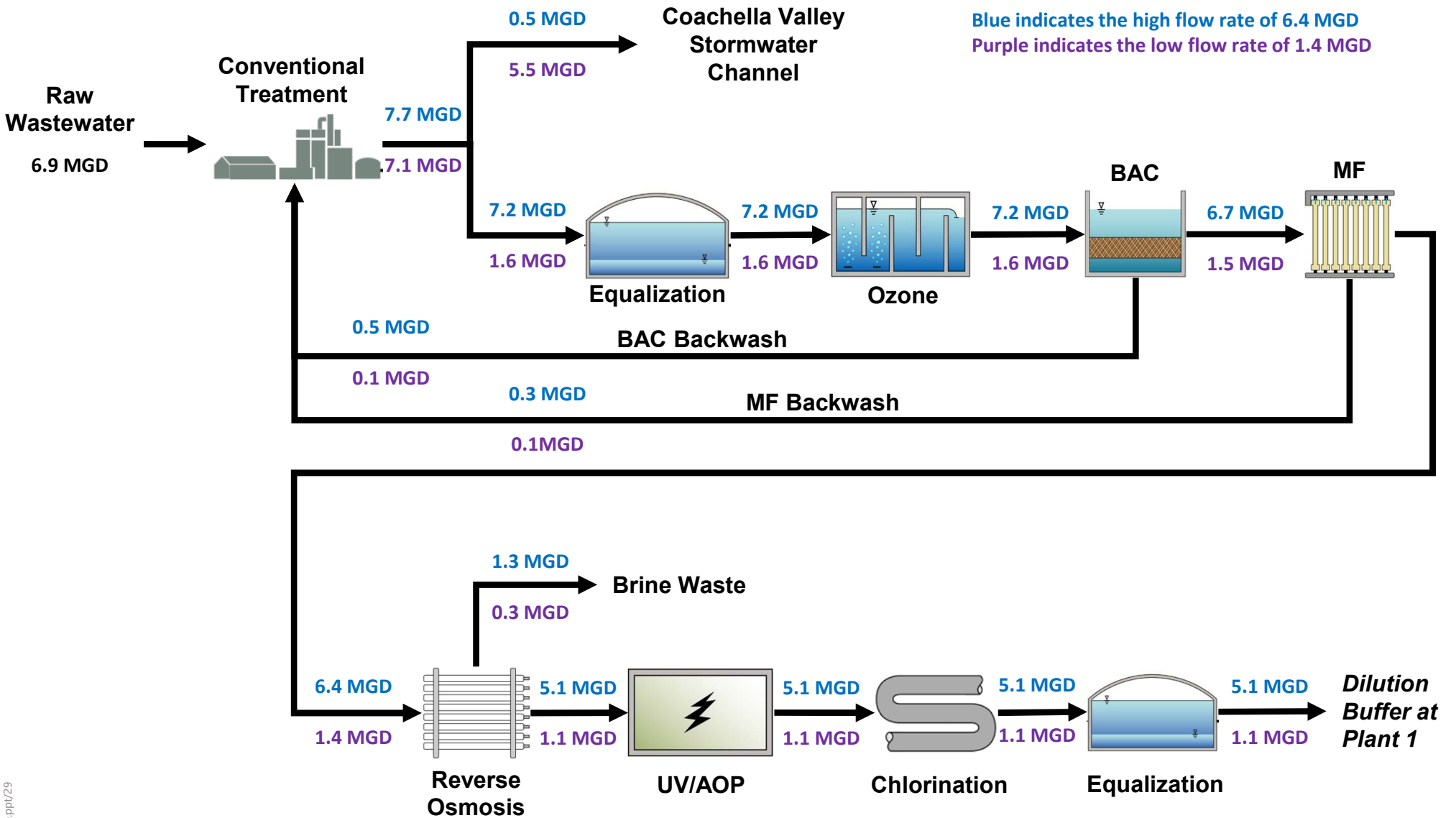
# Observations and Constraints

Evaporation for reverse osmosis concentrate requires a large surface area, which may create environmental constraints requiring mitigation for waterfowl, dust control, flooding, and other impacts.

DPR regulations will include a dilution requirement as a buffer. The preferred method to satisfy the dilution requirement is to blend DPR water with other potable water at a storage facility. The nearest potable water storage facility is located at IWA Plant 1. Per IWA, there is sufficient volume and operational turnover at Plant 1 to satisfy DPR dilution requirements.



# DPR Process Flow Diagram



# Transmission Infrastructure

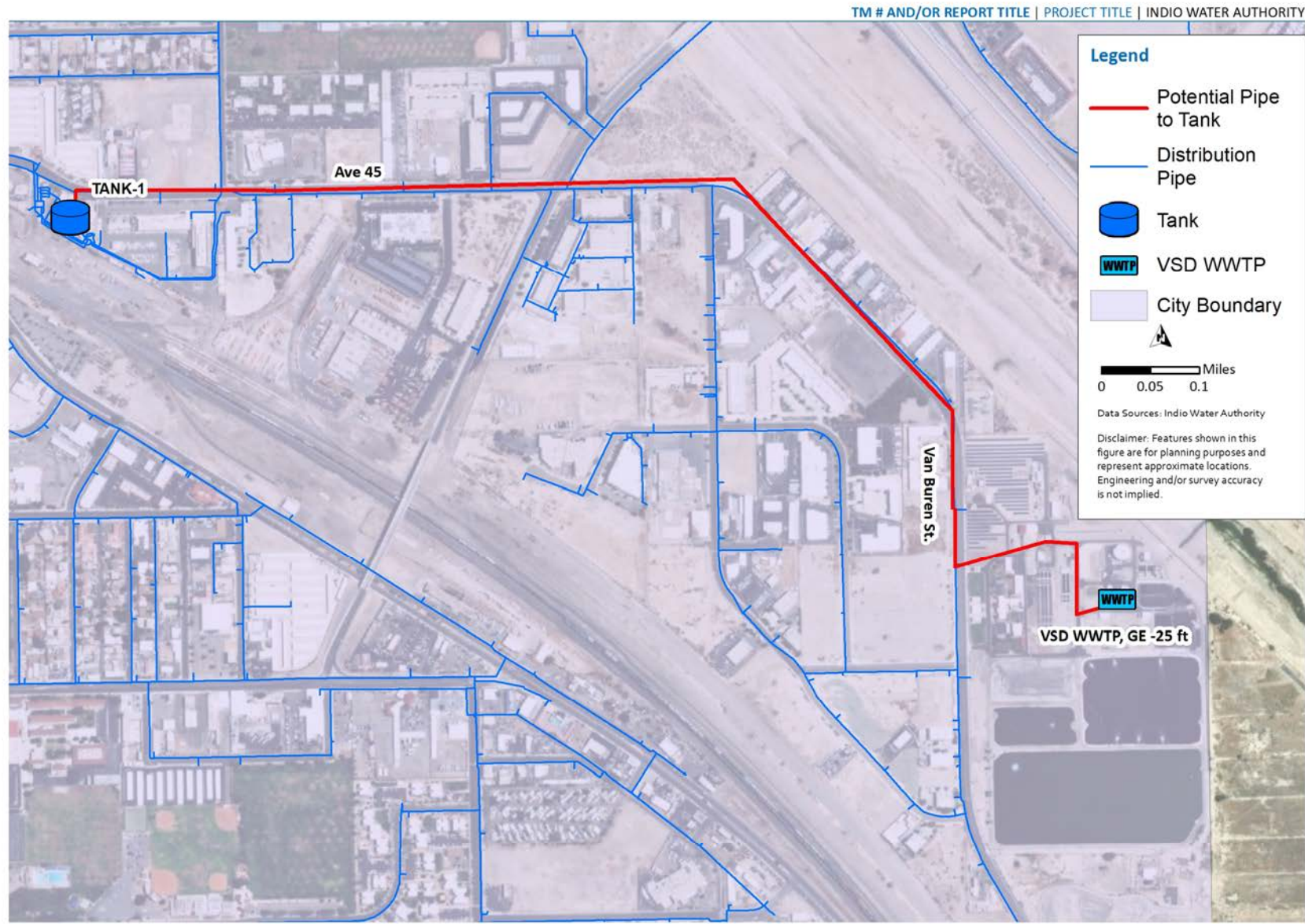


Figure 3 Zoomed DPR Map

# DPR Low Flow (1.4 MGD)

Item	Capital Cost	Amortized Cost	O&M
Treatment	67,400,000	4,960,000	3,907,000
Evaporation Ponds	10,970,000	630,000	107,800
Land Acquisition	4,440,000	260,000	0
Pipelines	2,600,000	150,000	1,600
Pumping	740,000	50,000	1,800
<b>Totals</b>	<b>86,150,000</b>	<b>6,050,000</b>	<b>4,018,200</b>
AFY			1,260
<b>Unit Cost (\$/AF)</b>			<b>7,990</b>

# DPR High Flow (6.4 MGD)

Item	Capital Cost	Amortized Cost	O&M
Treatment	108,000,000	7,950,000	8,572,000
Evaporation Ponds	51,890,000	3,000,000	474,800
Land Acquisition	22,110,000	1,280,000	0
Pipelines	5,500,000	320,000	3,200
Pumping	1,590,000	120,000	3,600
<b>Totals</b>	<b>189,090,000</b>	<b>12,670,000</b>	<b>9,053,600</b>
AFY			5,740
<b>Unit Cost (\$/AF)</b>			<b>3,780</b>

Economies of Scale result in a lower unit cost

# Summary and Next Steps

# Comparison of NPR, IPR and DPR Unit Costs

Concept	Volume (AFY)	Unit Cost
NPR High Flow Rate (6.4 MGD)	3,910	570
NPR 4 Northern Golf Courses	2,750	560
NPR Eagle Falls and Casino	970	470
NPR Eagle Falls Lake	877	170
IPR Low Flow Rate (1.4 MGD)	1,260	5,380
IPR High Flow Rate (6.4 MGD)	5,740	3,290
DPR Low Flow Rate (1.4 MGD)	1,260	7,990
DPR High Flow Rate (6.4 MGD)	5,740	3,780

# Next Steps

1. Flow Analysis Chapter
2. NPR Analysis Chapter
3. IPR Analysis Chapter
4. DPR Analysis Chapter



## Valley Sanitary District

**DATE:** March 7, 2023  
**TO:** Board of Directors  
**FROM:** Jeanette Juarez, Chief Administrative Officer  
**SUBJECT:** Discuss Proposed 5-Year Sewer Rates and Provide Direction to Staff

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### **Suggested Action**

Discuss

### **Strategic Plan Compliance**

GOAL 5: Long-Term Financial Strength

### **Fiscal Impact**

There is no fiscal impact at this time. Future fiscal impacts will depend upon which alternative the Board selects and will be presented at a future meeting for discussion.

### **Environmental Review**

This item does not qualify as a project as defined by the California Environmental Quality Act (CEQA).

### **Background**

At the October 25, 2022, meeting, the Board authorized the General Manager to execute a contract with NBS to perform a Comprehensive Wastewater Rate Study. As part of the study, NBS was tasked to create a financial plan that includes all revenue sources, expenditures, reserves, capital improvement costs, repair and replacement costs, and net revenue requirements.

NBS has prepared a financial plan presentation (attached), that addresses three key issues.

- Develop net revenue requirements from Fiscal Year 2022-23 to Fiscal Year 2041-42
- Establish and maintain of reserve funds and targets
- Fund the Capital Improvement Program

To meet all three targets NBS developed three Financial Plan Alternatives for District staff and the



Board of Directors to consider.

- Alternative 1 Full funding of CIP with no debt
- Alternative 2 Full funding of CIP entering into \$57 million in debt
- Alternative 3 Full funding of CIP entering into \$114 million debt

The Financial Plan presentation examines the District's targets and establishes a baseline for each of the alternatives.

**Recommendation**

Staff recommends that the Board of Directors review the Proposed 5-Year Sewer Rates and provide direction to staff.

**Attachments**

[VSD\\_Board of Directors Mtg\\_03.07.23 FINAL.pptx](#)



# Valley Sanitary District Rate Alternative Discussion Special Board Meeting

March 7, 2023



# Agenda

1. Capital Improvement Projects (CIP)
2. Financial Plan Alternatives
3. SFR Bill Comparisons
4. Next Steps
5. Q&A

# Capital Improvement Program

# 20-Year Capital Improvement Program (CIP)

Project Description	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	Total
<b>PLANT FACILITY</b>																					
Recycled Water Project Phase 1 Design Build	\$ 38,814,017	\$ 18,435,332	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57,249,349
Lystek Biosolids Conversion Project	2,000,000	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,000,000
Recycled Water Project Phase 2 Design Build	-	4,952,347	20,403,670	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25,356,017
Recycled Water Project Phase 3 Design	-	-	-	11,293,090	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,293,090
Recycled Water Project Phase 3 Construction	-	-	-	-	32,805,847	33,940,023	10,995,823	-	-	-	-	-	-	-	-	-	-	-	-	-	77,741,693
Future Plant Expansion 2040 & beyond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61,385,391	61,385,391	61,385,391	184,156,173
Laboratory Building - Final Design	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000,000
Laboratory Building - Construction	-	4,000,000	4,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,000,000
Training & Office Building - Design (Carry Over)	1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000,000
Training & Office Building - Construction	-	5,000,000	5,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,000,000
Master Plan	400,000	400,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	800,000
Vehicle & Major Equipment Replacement Fund	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	16,000,000
Additional Parking & Landscaping	-	500,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500,000
Future Operation Projects	600,000	600,000	600,000	600,000	600,000	600,000	600,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	30,200,000
<b>SUBTOTAL - PLANT</b>	<b>\$ 44,614,017</b>	<b>\$ 35,687,679</b>	<b>\$ 30,803,670</b>	<b>\$ 12,693,090</b>	<b>\$ 34,205,847</b>	<b>\$ 35,340,023</b>	<b>\$ 12,395,823</b>	<b>\$ 2,800,000</b>	<b>\$ 2,800,000</b>	<b>\$ 2,800,000</b>	<b>\$ 2,800,000</b>	<b>\$ 2,800,000</b>	<b>\$ 2,800,000</b>	<b>\$ 2,800,000</b>	<b>\$ 2,800,000</b>	<b>\$ 2,800,000</b>	<b>\$ 2,800,000</b>	<b>\$ 64,185,391</b>	<b>\$ 64,185,391</b>	<b>\$ 64,185,391</b>	<b>\$ 426,296,322</b>
<b>SEWAGE COLLECTION</b>																					
Lateral Grant Program	\$ 51,000	\$ 52,020	\$ 53,060	\$ 54,121	\$ 55,203	\$ 56,307	\$ 57,433	\$ 58,582	\$ 59,754	\$ 60,949	\$ 62,168	\$ 63,411	\$ 64,679	\$ 65,973	\$ 67,292	\$ 68,638	\$ 70,011	\$ 71,411	\$ 72,000	\$ 75,000	\$ 1,239,012
Sewer Main Rehabilitation or Replacement Design	1,762,810	1,822,040	1,584,182	1,328,282	1,053,397	758,540	784,027	457,553	494,157	-	-	-	-	-	-	-	-	-	-	-	10,044,988
Sewer Main Rehabilitation or Replacement Const.	5,698,051	7,051,446	7,288,374	6,291,929	5,220,294	4,069,542	2,835,566	1,514,074	1,635,200	-	-	-	-	-	-	-	-	-	-	-	41,604,476
Manhole Rehabilitation	-	-	-	-	-	-	-	-	150,000	154,500	159,135	163,909	168,826	173,891	179,108	184,481	190,015	195,715	200,000	220,000	2,139,580
Sewer Main Emergency Repairs	118,450	122,004	125,664	129,434	133,317	137,317	141,437	145,680	150,050	154,552	159,189	163,965	168,884	173,951	179,170	184,545	190,081	195,783	200,000	220,000	3,193,473
Avenue 48 Sewer Main Upgrade Design	-	-	-	-	-	-	-	-	-	248,455	-	-	-	-	-	-	-	-	-	-	248,455
Avenue 48 Sewer Main Upgrade Construction	-	-	-	-	-	-	-	-	-	-	2,387,715	-	-	-	-	-	-	-	-	-	2,387,715
Interim Collection System CIP Design	-	-	-	-	-	-	-	-	-	-	-	302,856	-	-	-	-	-	-	-	-	302,856
Interim Collection System CIP Construction	-	-	-	-	-	-	-	-	-	-	-	-	2,912,776	-	-	-	-	-	-	-	2,912,776
Build-out Collection System CIP projects	-	-	-	-	-	-	-	-	-	-	-	-	-	7,020,147	-	-	-	-	-	-	7,020,147
Future Collection Projects	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	4,800,000
Emergency Sewer Siphon Replacement Design	830,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	830,000
Emergency Sewer Siphon Replacement Const.	4,821,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,821,000
<b>SUBTOTAL - COLLECTIONS</b>	<b>\$ 13,381,311</b>	<b>\$ 9,147,510</b>	<b>\$ 9,151,280</b>	<b>\$ 7,903,766</b>	<b>\$ 6,562,211</b>	<b>\$ 5,121,706</b>	<b>\$ 3,918,463</b>	<b>\$ 2,275,889</b>	<b>\$ 2,837,616</b>	<b>\$ 2,857,716</b>	<b>\$ 783,348</b>	<b>\$ 3,404,061</b>	<b>\$ 7,522,536</b>	<b>\$ 913,815</b>	<b>\$ 925,570</b>	<b>\$ 937,664</b>	<b>\$ 950,107</b>	<b>\$ 962,909</b>	<b>\$ 972,000</b>	<b>\$ 1,015,000</b>	<b>\$ 81,544,478</b>
<b>CONTINGENCY</b>	<b>\$ 102,000</b>	<b>\$ 104,040</b>	<b>\$ 106,121</b>	<b>\$ 108,243</b>	<b>\$ 110,408</b>	<b>\$ 112,616</b>	<b>\$ 114,868</b>	<b>\$ 117,165</b>	<b>\$ 119,508</b>	<b>\$ 121,898</b>	<b>\$ 124,336</b>	<b>\$ 126,823</b>	<b>\$ 129,359</b>	<b>\$ 131,946</b>	<b>\$ 134,585</b>	<b>\$ 137,277</b>	<b>\$ 140,023</b>	<b>\$ 142,823</b>	<b>\$ 142,823</b>	<b>\$ 142,824</b>	<b>\$ 2,469,686</b>
<b>TOTAL</b>	<b>\$ 58,097,328</b>	<b>\$ 44,939,229</b>	<b>\$ 40,061,071</b>	<b>\$ 20,705,099</b>	<b>\$ 40,878,466</b>	<b>\$ 40,574,345</b>	<b>\$ 16,429,154</b>	<b>\$ 5,193,054</b>	<b>\$ 5,757,124</b>	<b>\$ 5,779,614</b>	<b>\$ 3,707,684</b>	<b>\$ 6,330,884</b>	<b>\$ 10,451,895</b>	<b>\$ 3,845,761</b>	<b>\$ 3,860,155</b>	<b>\$ 3,874,941</b>	<b>\$ 3,890,130</b>	<b>\$ 65,291,123</b>	<b>\$ 65,300,214</b>	<b>\$ 65,343,215</b>	<b>\$ 510,310,486</b>

# Capital Improvement Program (CIP)

- Recycled Water Project - \$197M
- Projects in yellow are not yet Board approved

CIP Project Description	Total Estimated Cost	FY 2022/23 Approved Budget Cost	Regulatory Required	Remaining Future Budget
Recycled Water Project Phase 1 Design Build	\$ 81,375,000	\$ 17,763,656	Yes	\$56,611,344
Emergency Sewer Siphon Replacement Construction	\$ 9,285,000	\$ 4,464,000	Yes	-
Sewer Main Rehabilitation or Replacement Construction	\$ 42,121,869	\$ 3,666,667	Yes	-
Influent Pump Station Rehabilitation Design Build	\$ 3,300,000	\$ 3,300,000	Yes	-
Sewer Main Rehabilitation or Replacement Design	\$ 11,273,328	\$ 1,228,340	Yes	-
Vehicle & Major Equipment Replacement Fund	\$ 6,360,000	\$ 760,000	No	-
Emergency Sewer Siphon Replacement Design	\$ 1,468,000	\$ 638,000	Yes	-
Water Reclamation Facility Master Plan	\$ 800,000	\$ 600,000	No	-
Steel Waterline Replacement at ASP	\$ 350,000	\$ 350,000	No	-
Electrical Control Panel Replacements Blower Building	\$ 120,000	\$ 120,000	Yes	-
SCADA Improvements	\$ 120,000	\$ 120,000	No	-
Sewer Main Emergency Repairs	\$ 3,308,473	\$ 115,000	Yes	-
Contingency	\$ -	\$ 100,000	No	-
Laboratory Information Management System	\$ 70,000	\$ 70,000	No	-
Lateral Grant Program	\$ 1,289,000	\$ 50,000	No	-
ASP Concrete Repair	\$ 50,000	\$ 50,000	No	-
Treatment Plant Asphalt Repair	\$ 50,000	\$ 50,000	No	-
Replacement of Calhoun Lift Station Pumps (2)	\$ 50,000	\$ 50,000	No	-
12.5 Ton Air Conditioner, Blower Building	\$ 30,000	\$ 30,000	No	-
New Office Building for Belt Filter Press	\$ 20,000	\$ 20,000	No	-
Recycled Water Project Phase 3 Design & Construction	\$ 89,034,783	\$ -	Yes	-
Recycled Water Project Phase 2 Design Build	\$ 25,356,017	\$ -	Yes	-
Training & Office Building Design & Construction	\$ 11,000,000	\$ -	No	-
Laboratory Building Design & Construction	\$ 9,000,000	\$ -	Yes	-
Future Collection Projects	\$ 4,800,000	\$ -	Possibly	-
Future Operation Projects	\$ 4,200,000	\$ -	Possibly	-
Lystek Biosolids Conversion Project	\$ 3,000,000	\$ -	Possibly	-
Additional Parking & Landscaping	\$ 500,000	\$ -	No	-
<b>Total</b>	<b>\$ 308,331,470</b>	<b>\$ 33,545,663</b>		<b>\$56,611,344</b>

# Approved CIP Projects

Approved CIP Projects	Total Estimated Cost	FY 2022/23 Approved Budget Cost	Regulatory Required	Remaining Future Budget
Recycled Water Project Phase 1 Design Build	\$ 81,375,000	\$ 17,763,656	Yes	\$56,611,344
Emergency Sewer Siphon Replacement Construction	9,285,000	4,464,000	Yes	-
Sewer Main Rehabilitation or Replacement Construction	42,121,869	3,666,667	Yes	-
Influent Pump Station Rehabilitation Design Build	3,300,000	3,300,000	Yes	-
Sewer Main Rehabilitation or Replacement Design	11,273,328	1,228,340	Yes	-
Vehicle & Major Equipment Replacement Fund	6,360,000	760,000	No	-
Emergency Sewer Siphon Replacement Design	1,468,000	638,000	Yes	-
Water Reclamation Facility Master Plan	800,000	600,000	No	-
Steel Waterline Replacement at ASP	350,000	350,000	No	-
Electrical Control Panel Replacements Blower Building	120,000	120,000	Yes	-
SCADA Improvements	120,000	120,000	No	-
Sewer Main Emergency Repairs	3,308,473	115,000	Yes	-
Contingency	-	100,000	No	-
Laboratory Information Management System	70,000	70,000	No	-
Lateral Grant Program	1,289,000	50,000	No	-
ASP Concrete Repair	50,000	50,000	No	-
Treatment Plant Asphalt Repair	50,000	50,000	No	-
Replacement of Calhoun Lift Station Pumps (2)	50,000	50,000	No	-
12.5 Ton Air Conditioner, Blower Building	30,000	30,000	No	-
New Office Building for Belt Filter Press	20,000	20,000	No	-
<b>Total</b>	<b>\$ 161,440,670</b>	<b>\$ 33,545,663</b>	<b>\$ -</b>	<b>\$56,611,344</b>

# CIP Projects Pending Approval

CIP Projects Pending Approval	Total Estimated Cost	Regulatory Required
Recycled Water Project Phase 3 Design & Construction	\$ 89,034,783	Yes
Recycled Water Project Phase 2 Design Build	25,356,017	Yes
Training & Office Building Design & Construction	11,000,000	No
Laboratory Building Design & Construction	9,000,000	Yes
Future Collection Projects	4,800,000	Possibly
Future Operation Projects	4,200,000	Possibly
Lystek Biosolids Conversion Project	3,000,000	Possibly
Additional Parking & Landscaping	500,000	No
Total	\$ 146,890,800	



# Financial Plan Alternatives

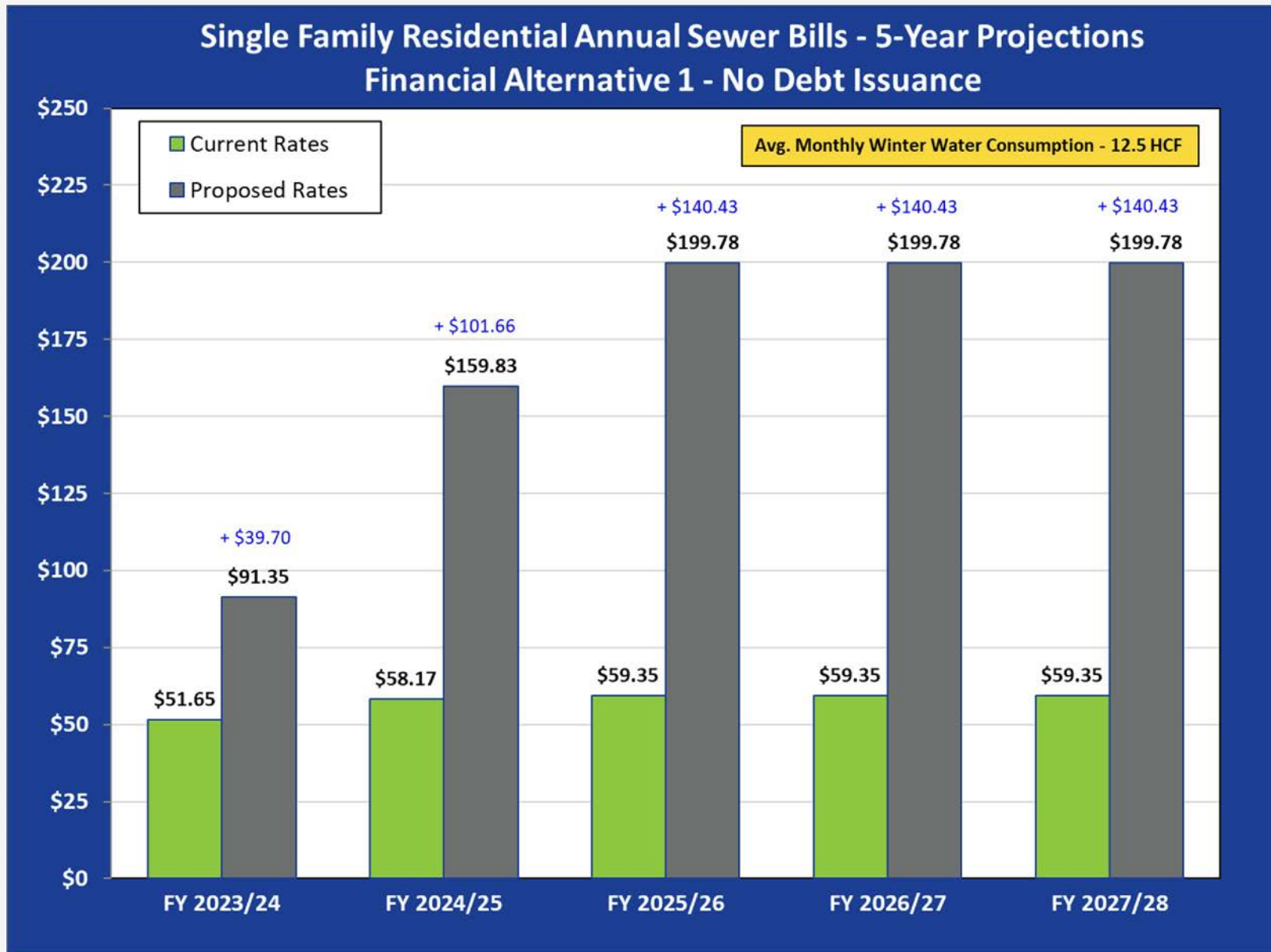
# Financial Plan Alternatives

Financial Plan Alternatives	
1	Alternative 1 - Full CIP with No Debt Issue
2	Alternative 2 - Full CIP with a \$70 Million Debt
3	Alternative 3 - Full CIP with a \$114 Million Debt

# Bill Comparisons

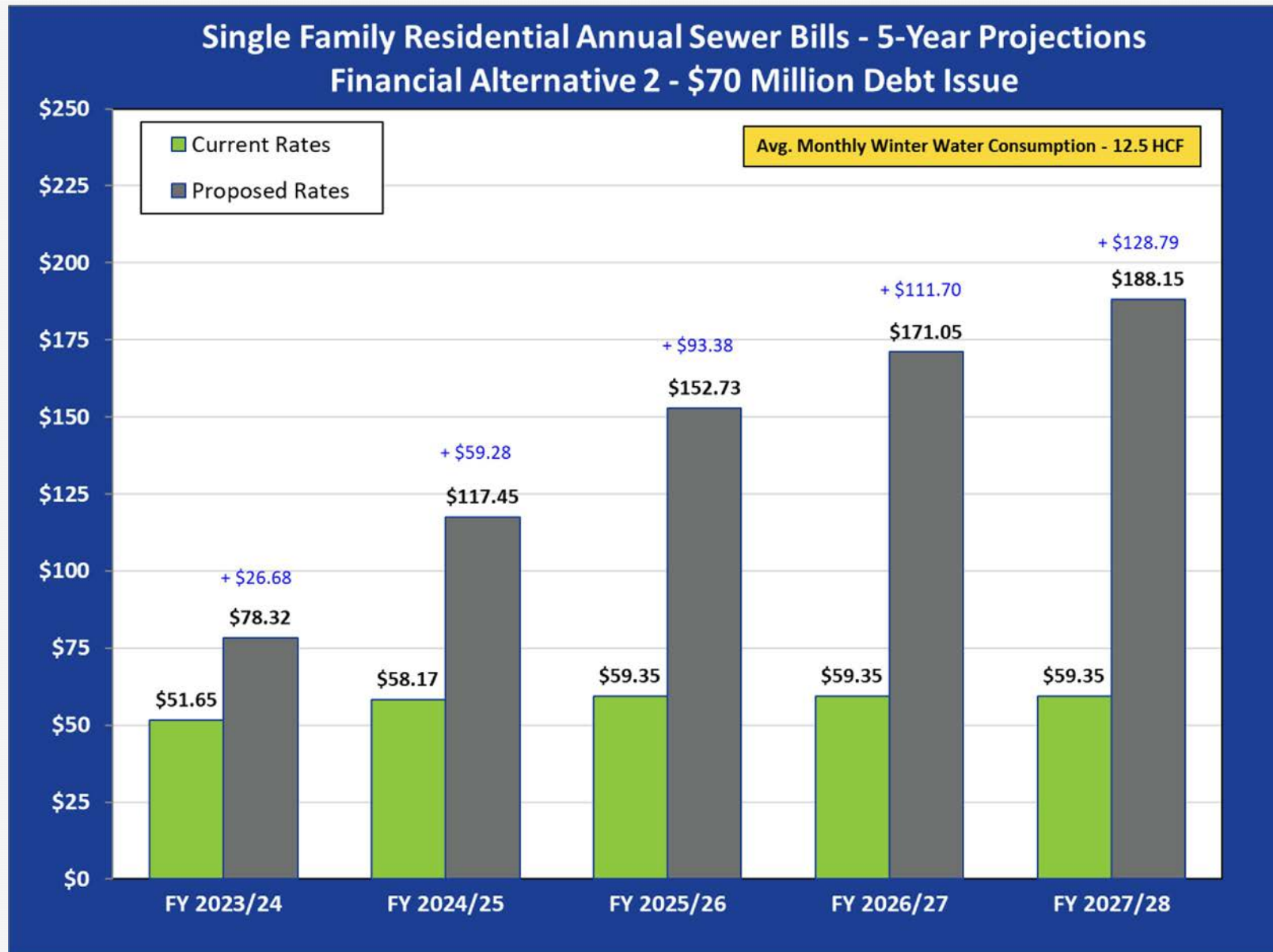
# SFR Bill Comparison

Alternative 1 - No Debt Issuance



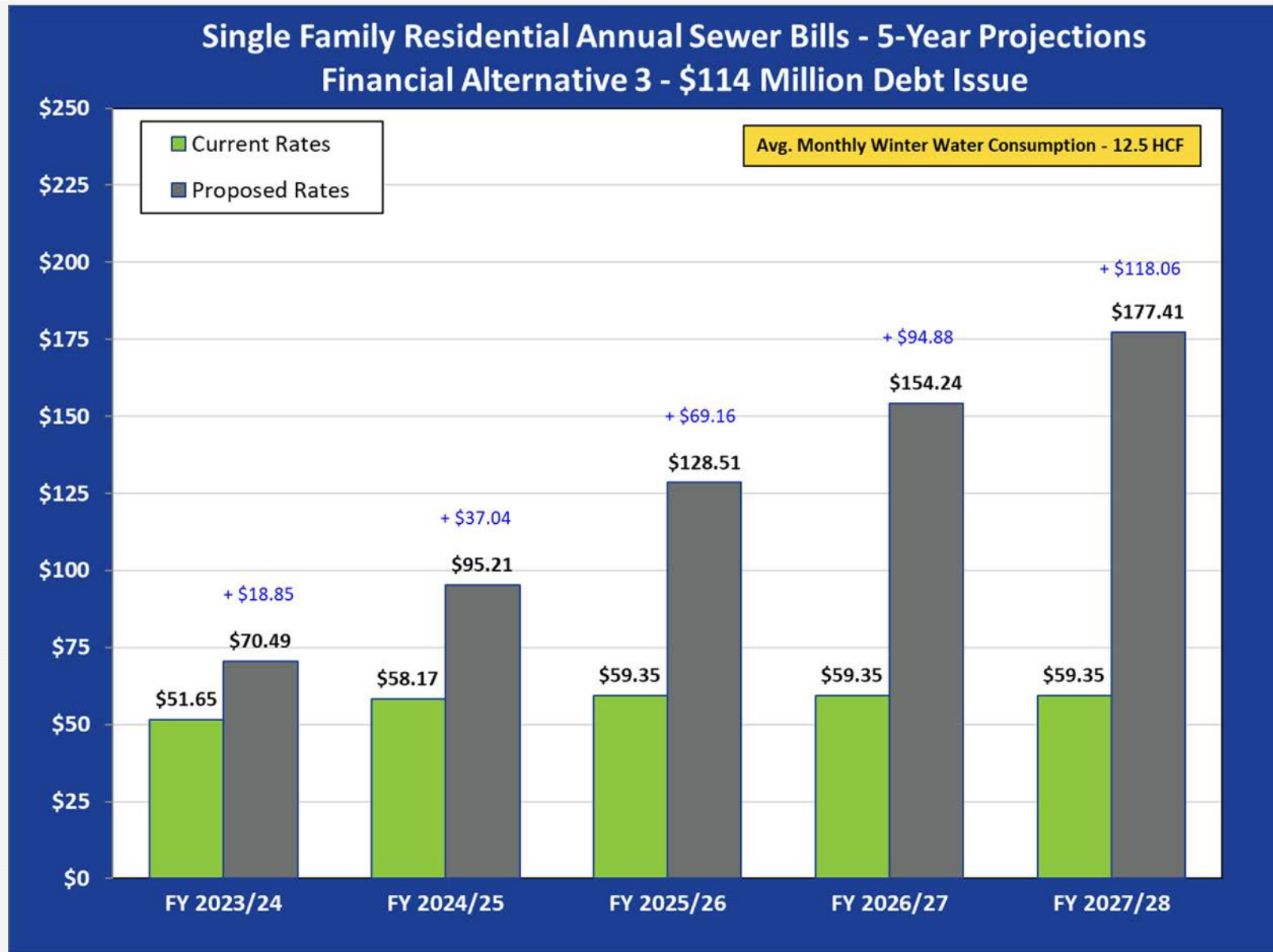
# SFR Bill Comparison

Alternative 2 - \$70 Million Debt

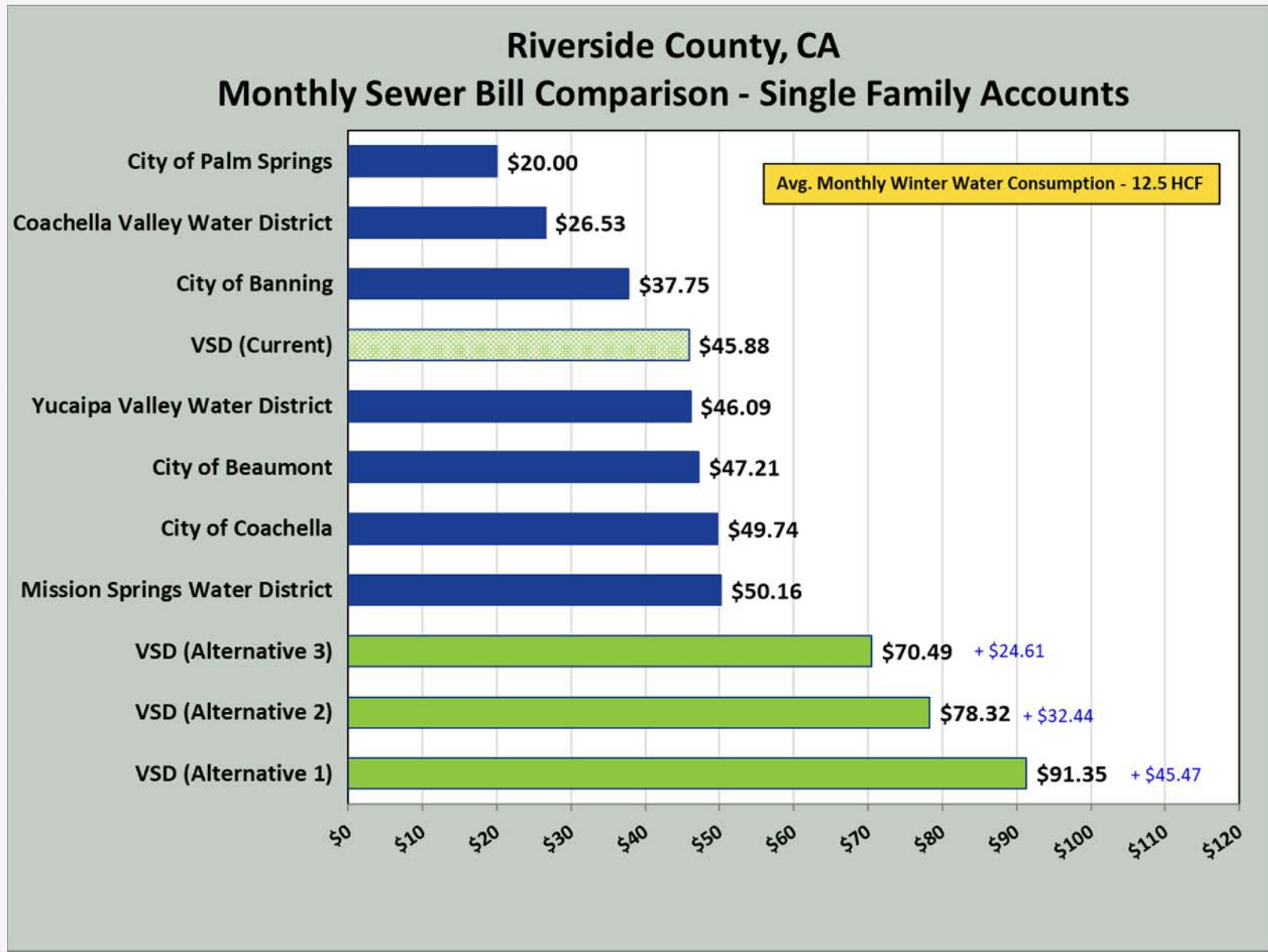


# Current vs. Proposed Rates

Alternative 3 - \$114 Million Debt



# Regional Bill Comparison



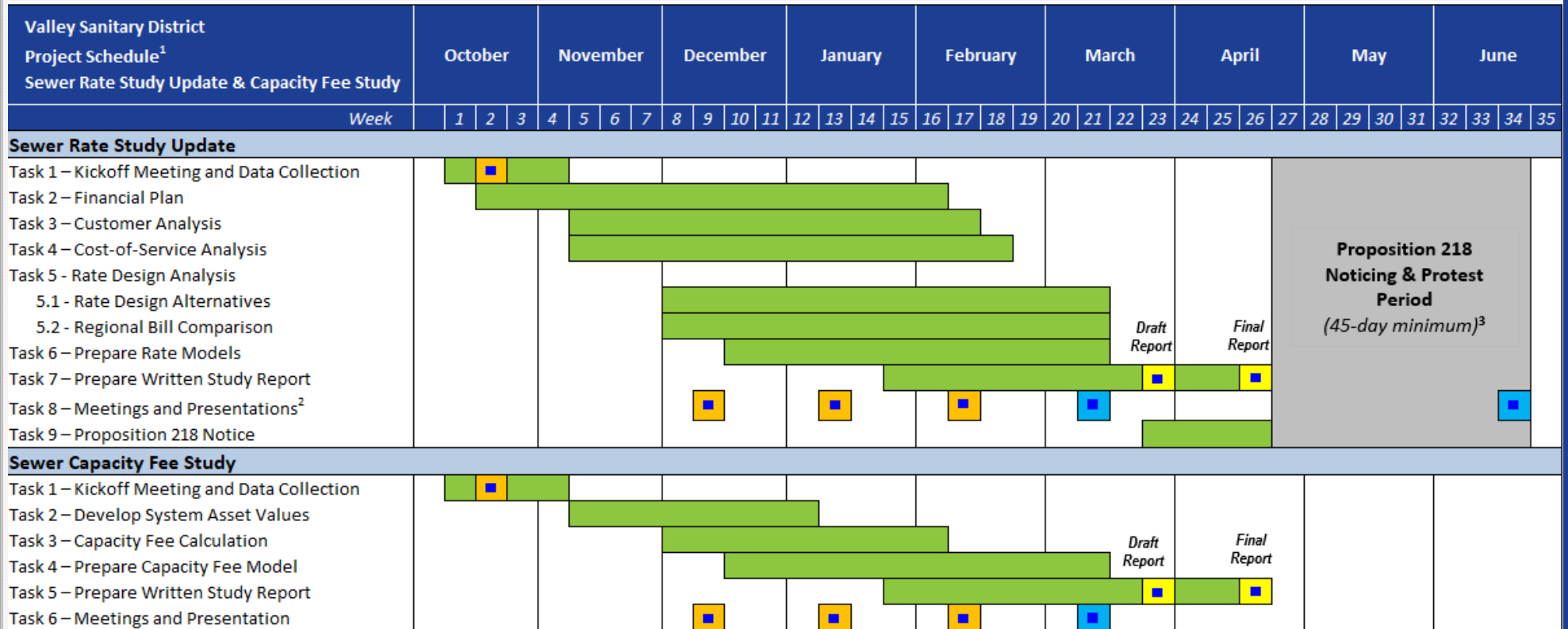
Next Steps



# Next Steps

1. Provide direction to staff and consultants to conduct additional financial analysis, if needed.
2. Consultants will continue to finish the rate study tasks and complete the cost of service and rate design analyses.
3. Presentation of complete study to Board of Directors.
4. Mail Proposition 218 notices, if Board proceeds with a new rate plan.
5. Implement updated rate plan if no majority protest.

# Timeline



- The proposed schedule may need to be revised during the course of the study due to unforeseen events on the part of Valley Sanitary District and/or NBS.
- Meetings and presentations are estimated in this timeline and will be scheduled as needed throughout the study.
- The timing of the Proposition 218 process shown in the schedule above is an estimate of when the process can take place. The actual schedule will be discussed at the kick-off meeting and a more defined plan will be developed at that time.

- Active task work
- Draft and Final Reports
- Meeting with District Staff (to be scheduled as needed)
- Board Presentation (to be scheduled as needed)



# Questions



**Valley Sanitary District**

**DATE:** March 7, 2023  
**TO:** Board of Directors  
**FROM:** Holly Gould, Clerk of the Board  
**SUBJECT:** Adopt Resolution No. 2023-1174 Honoring Dr. Beverli A. Marshall for Her Dedication and Service to Valley Sanitary District

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**Suggested Action**

Approve

**Strategic Plan Compliance**

GOAL 6: Improve Planning, Administration and Governance

**Fiscal Impact**

There is no fiscal impact.

**Environmental Review**

This is not a project as defined by CEQA.

**Background**

The Board of Directors of Valley Sanitary District wish to recognize and express appreciation for Dr. Beverli A. Marshall for outstanding service as the General Manager of the Valley Sanitary District.

**Recommendation**

Staff recommends that the Board of Directors adopt Resolution No. 2023-1174 honoring Dr. Beverli A. Marshall for her dedication and service to Valley Sanitary District.

**Attachments**

[RES 2023-1174 Honoring Dr. Beverli A. Marshall.doc](#)

**RESOLUTION NO. 2023-1174**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF VALLEY SANITARY DISTRICT HONORING DR. BEVERLI A. MARSHALL**

**WHEREAS**, the Board of Directors of Valley Sanitary District wish to recognize the outstanding service of Dr. Beverli A. Marshall; and

**WHEREAS**, the Board of Directors of Valley Sanitary District wish to recognize that Dr. Beverli A. Marshall served as General Manager of the Valley Sanitary District from 2019 to 2023; and

**WHEREAS**, the Board of Directors of Valley Sanitary District wish to recognize and express appreciation for the commitment and efforts of Dr. Beverli A. Marshall on behalf of the Valley Sanitary District; and

**THEREFORE, BE IT RESOLVED** by the Board of Directors of Valley Sanitary District that a copy of this resolution be recorded in the permanent minutes of this Board.

**PASSED, APPROVED, and ADOPTED** this 7th day of March, 2023, by the following roll call vote:

AYES:  
NAYES:  
ABSENT:  
ABSTAIN:

\_\_\_\_\_  
Debra Canero, President

ATTEST:

\_\_\_\_\_  
Scott Sear, Secretary/Treasurer