

# 2022 Utility Rate Study

## “Where Yountville’s Water Flows and Goes”

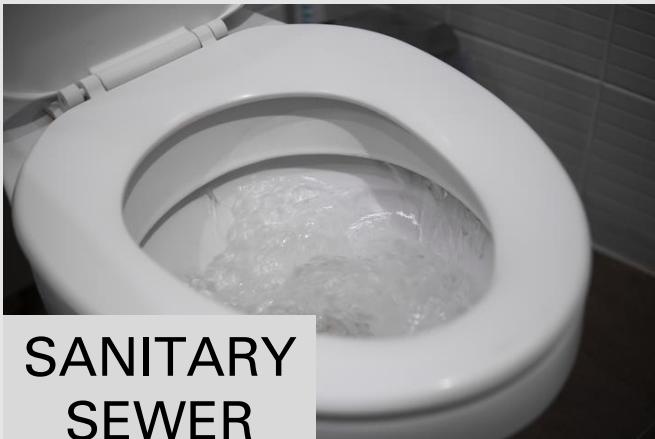
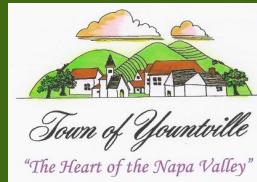


Public  
Information  
Workshop

Oct 24,  
2022

Community  
Hall

# Always there when you need it...



# FOLLOW THE FLOW

Water Supply

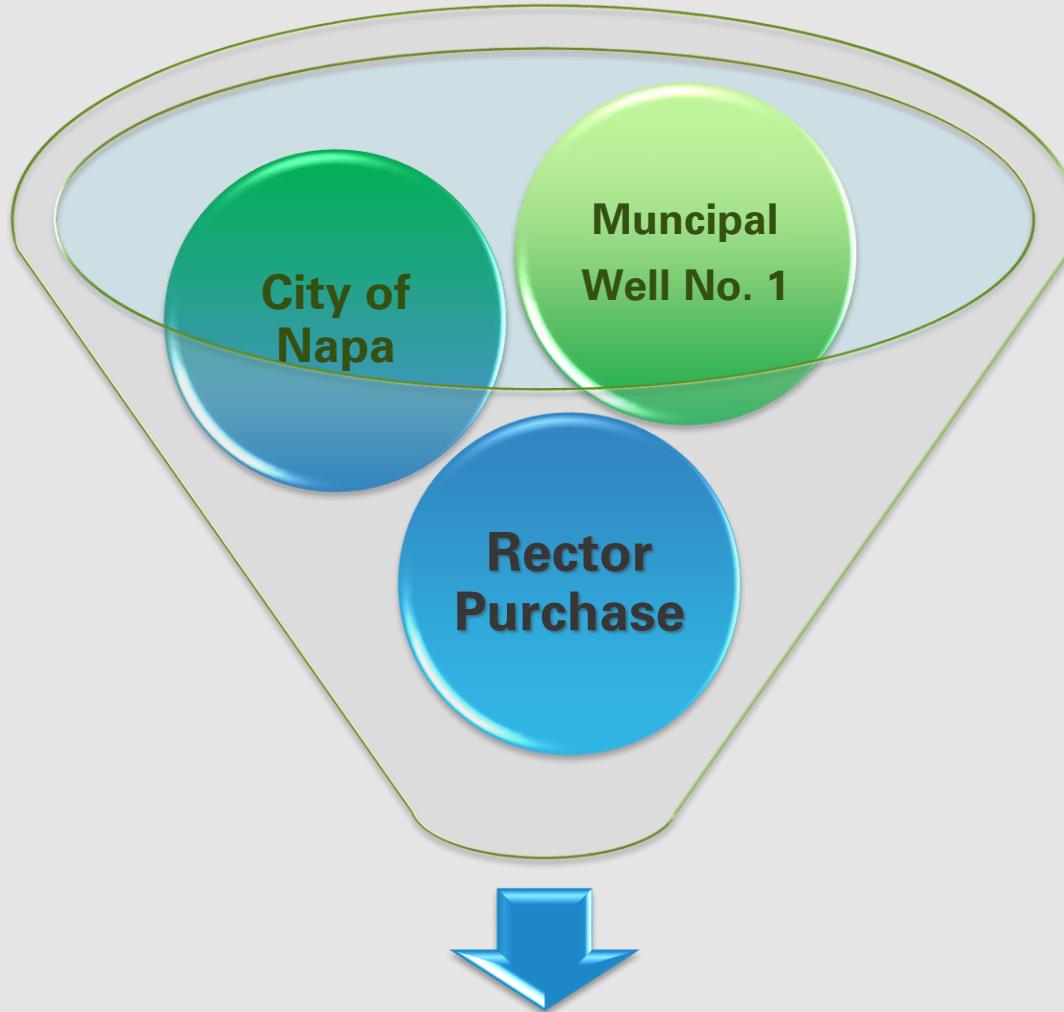
Water Distribution

Water Users

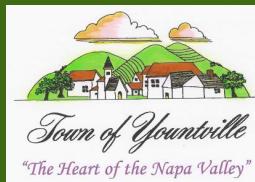
Wastewater Collection

Wastewater Treatment

# WATER SUPPLY



**Three Sources of Yountville Water**



# RECTOR RESERVOIR

RECTOR RESERVOIR  
& WATER  
TREATMENT PLANT

OWNED &  
OPERATED BY CAL-  
VET

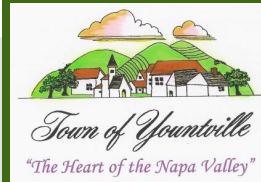
CONTRACT WITH  
TOWN

500+ ACRE-FEET  
NORMALLY

400 ACRE-FEET DRY  
YEARS



# CITY OF NAPA



36-INCH  
TRANSMISSION  
MAIN

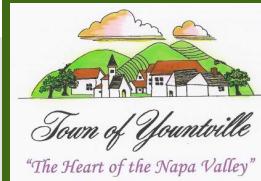
CONNECTION  
AT WEBBER

CONTRACT UP  
TO 25 ACRE-  
FEET

NAPA OUTSIDE  
CITY RATE



# TOWN MUNICIPAL WELL NO. 1



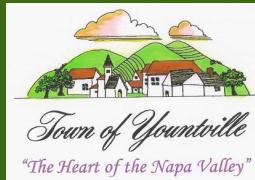
**EMERGENCY  
WELL 2004**

**OPERATIONAL  
WELL 2021**

**DDW PERMIT**



# WATER DISTRIBUTION



OPERATED UNDER PERMIT FROM  
DDW

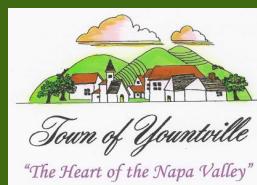
PRESSURE PIPE NETWORK

FIRE HYDRANTS/FIRE SERVICE  
CONNECTIONS

WATER METERS/BACKFLOW DEVICES

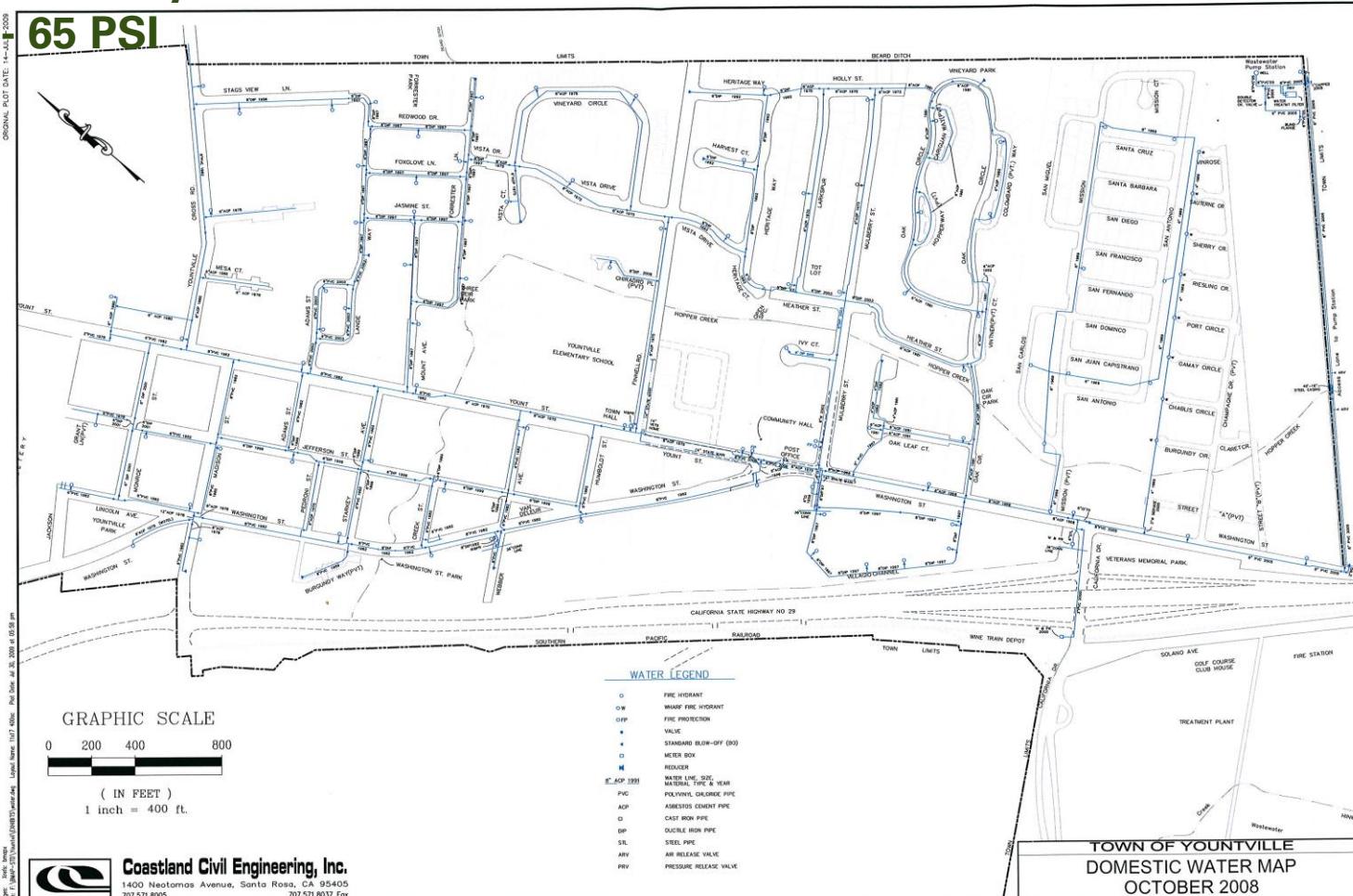
GOOD WATER PRESSURE

# WATER PIPE NETWORK



**10.7 miles of water distribution pipelines**  
**832 service connections and meters**  
**28 Town-owned backflow prevention**  
**117 Fire Hydrants**

+/- 65 PSI



# WATER CUSTOMERS

**845 water accounts across 13 customer class codes:**

- 610 Residential; 72%
- 54 Multi-Family Residential; 6%
- 34 Hotel/Inn; 4%
- 32 Residential – Out of Town; 4%
- 28 Commercial; 3%
- 22 Condo/Townhouse; 3%
- 19 Town Owned Property; 2%
- 14 Restaurant/Bar; 2%
- 11 Church/School; 1%
- 9 Multi-Commercial; 1%
- 6 Mobile Home Park; <1%
- 2 Sewer Only; <1%
- 2 Town to Cal-Vet Connections; <1%

## Beacon Eye on Water System.

- Town Staff uses this data for monthly water billing
- Provides customer's personal water consumption data
- Alerts for potential leaks

## Fire Service Connections

- 39 Fire Service Accounts

# WASTEWATER COLLECTION



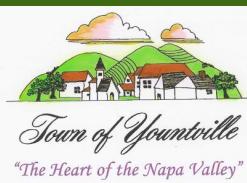
OPERATED UNDER PERMIT FROM  
SRWQCB

SANITARY SEWER SERVICE LATERALS

MAINTENANCE HOLES

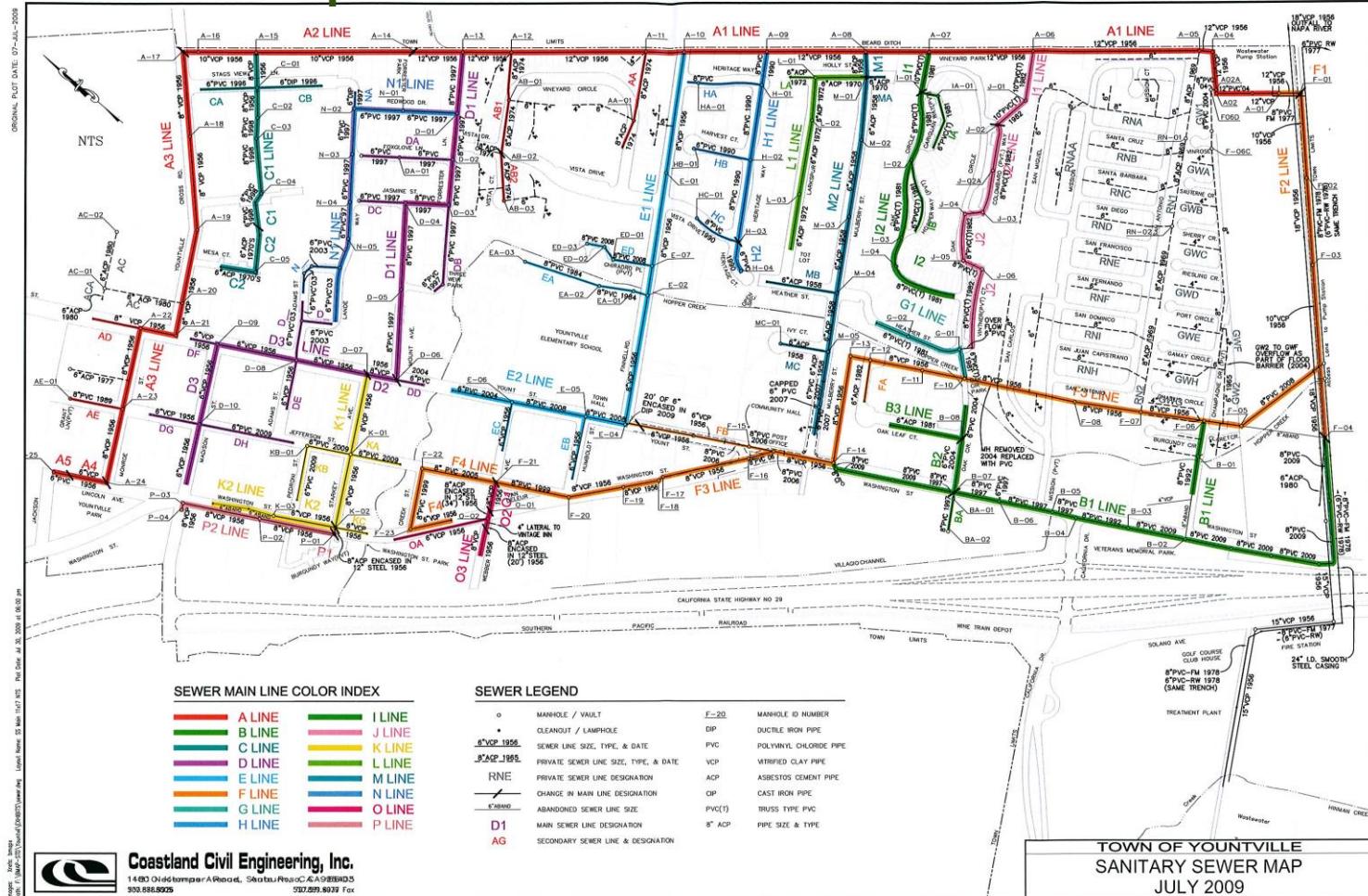
BARDESSONO PUMP STATION

SEWER FORCE MAIN TO WWTP

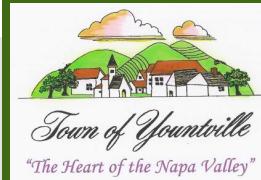


# SEWER PIPE NETWORK

9.5 miles of gravity sewer pipelines  
 772 sewer lateral connections  
 3,960 linear feet of sewer force main  
 36 Grease Interceptors



# BARDESSONO PUMP STATION



Collection System  
Drains via Gravity

Concrete Sump

2 Wastewater  
Pumps

Force Main to  
Treatment Plant

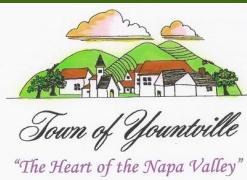


Peter J. Bardessono Memorial  
Waste Water Pumping Station

In memory of  
Pete's years of service and dedication to the  
Town of Yountville  
1957 - 1989

Dedicated by  
The Yountville Town Council

August 23, 2002



# WASTEWATER TREATMENT PLANT

TWO PERMITS, NATIONAL & STATE

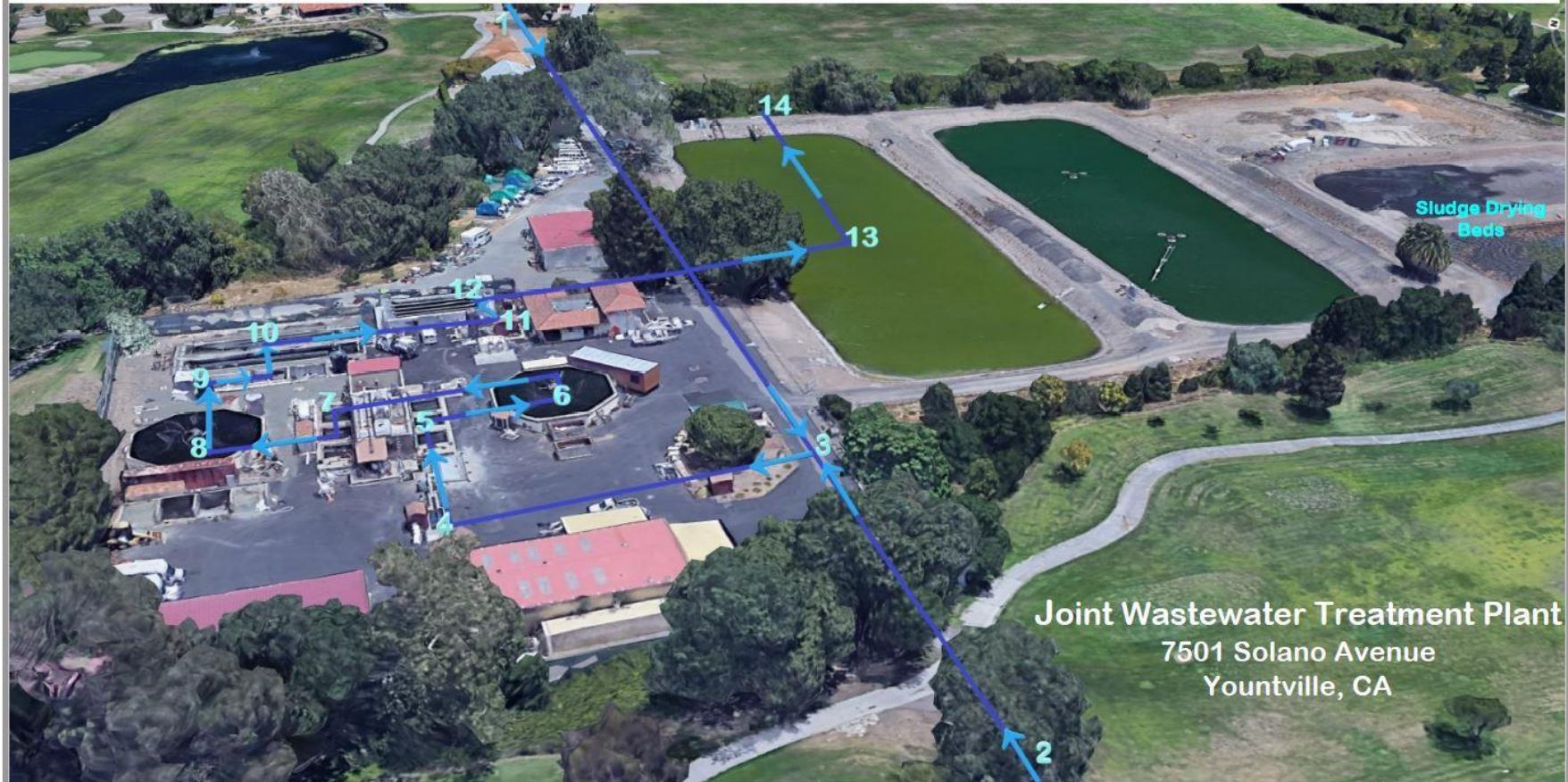
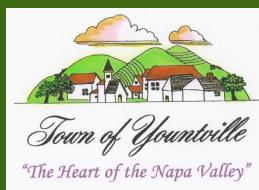
FLOW FROM TOWN & VETERANS  
HOME

PERMITTED DRY FLOW 0.55 MGD

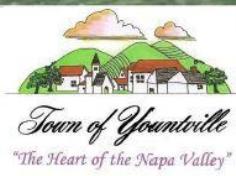
PERMITTED WET WEATHER FLOW 2  
MGD

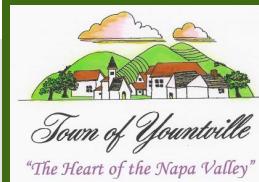
SECONDARY & ADVANCED SECONDARY  
TREATMENT

# WASTEWATER TREATMENT PLANT



1. Sewer generated from customers is pumped in from the pump station facility.
2. Sewer generated from the Veterans Homes flows in to the system.
3. Influent.
4. Aerated Grit Removal
5. Primary Sedimentation Tank
6. First Stage Trickling
7. Intermediate Sedimentation Trickling
8. Second Stage Trickling Filter
9. Solids Contact Basin
10. Final Sedimentation Basin
11. Fuzzy Filter
12. Chlorine Contact
13. Effluent Storage
14. Recycled Water is pumped out to customers.





# WATER & WASTEWATER COMPLICATED INFRASTRUCTURE

DAILY OPERATION

SCHEDULED MAINTENANCE

EMERGENCY REPAIRS

CAPITAL IMPROVEMENTS

# DAILY OPERATION

## 6 CERTIFIED OPERATORS



# SCHEDULED MAINTENANCE

## Exercising Valves



## Backflow Prevention



## Water Quality Sampling

NELAP/ORELAP Certification 4036

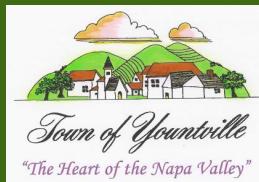


CA-ELAP Certification 1664

Lab Order: X070112  
Project ID: DW Dist Sys Gen Phys|2810007

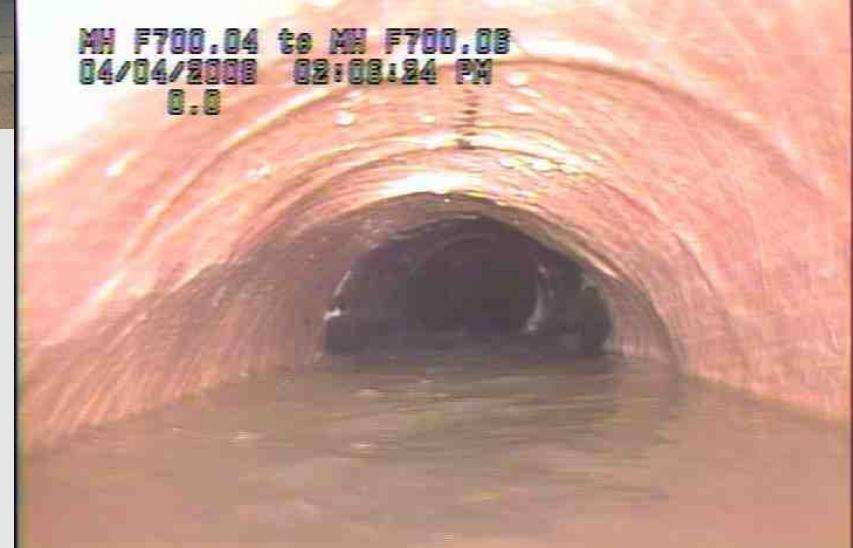
### SAMPLE SUMMARY

Lab ID	Sample ID	Matrix	Date Collected	Date Received
X070112001	2043 Monroe St 2810007_DST_007	Drinking Water	07/05/2022 08:32	07/05/2022 12:49



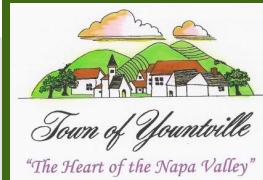
# SCHEDULED MAINTENANCE

## WASTEWATER COLLECTIONS SYSTEM



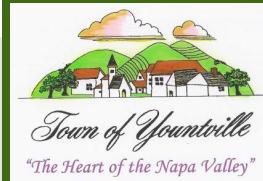
# EMERGENCY REPAIRS

## WASHINGTON PARK WATER LINE



# EMERGENCY REPAIRS

## WASTEWATER TREATMENT PLANT



# CAPITAL IMPROVEMENT PROJECTS

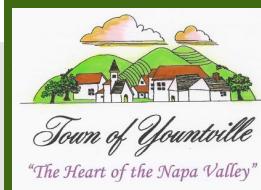
## COMPLETED LAST RATE CYCLE:



**WA-0007; Regulator Pit Relocation  
Yountville Cross Rd/Finnell St  
\$115,000**



**WA-0010; Main & Lateral  
Repair, Yount Street;  
\$100,000**



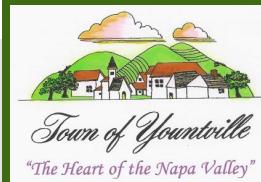
# CAPITAL IMPROVEMENT PROJECTS

## COMPLETED LAST RATE CYCLE:

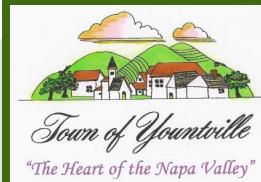


**WW-2026; Replacement Pump  
\$39,000**

**WW-2022; Inflow & Infiltration  
Reduction Program  
\$337,000**



# CAPITAL IMPROVEMENT PROJECTS

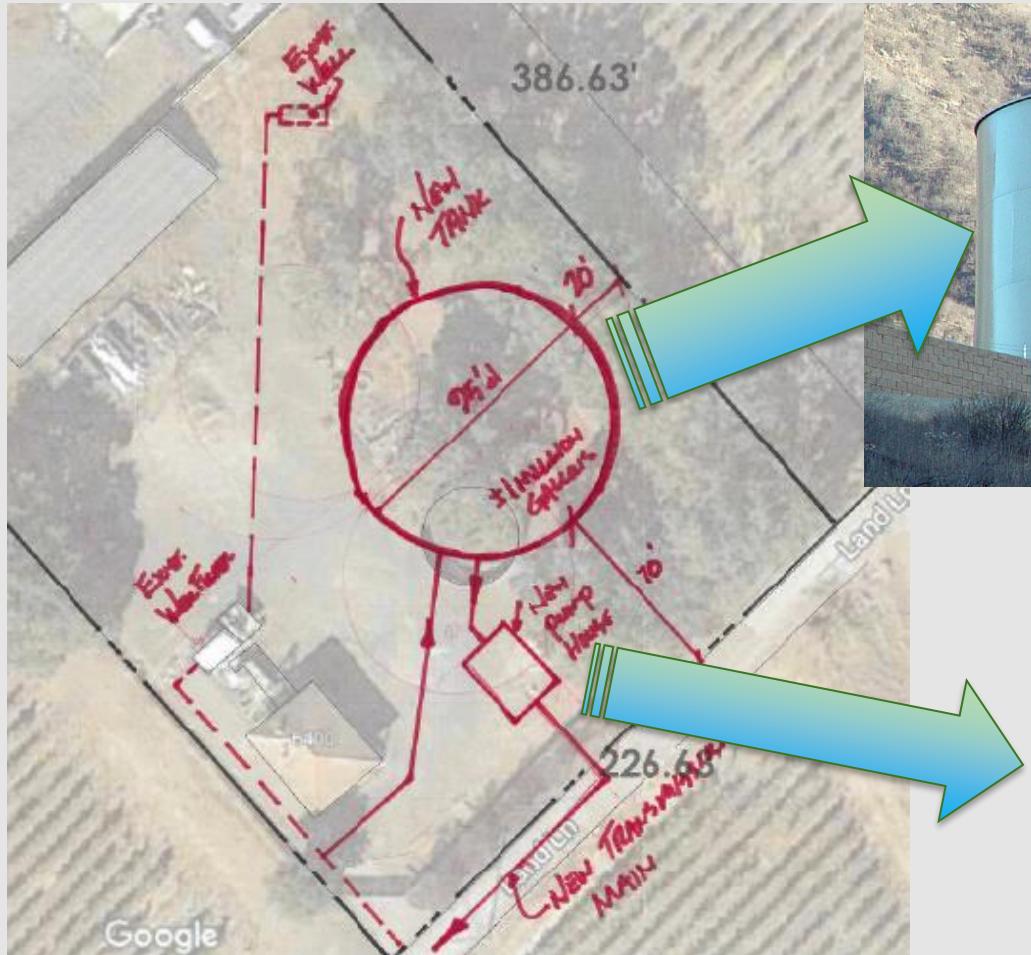
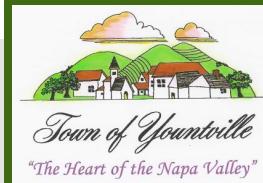


## WATER ENTERPRISE

Project / Program #	Project Name	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WA-0015	Hydrant Repair and Replacement	\$0	\$35,000	\$0	\$38,500	\$0	\$73,500
WA-0018	Upgrade SCADA System to Operational Well	\$140,000	\$0	\$0	\$0	\$0	\$140,000
WA-0019	1MG Well Water Tank/ Pump Station and Transmission Main; Design, Permitting and Construction	\$0	\$0	\$0	\$250,000	\$4,800,000	\$5,050,000
WA-0020	Water System Inter tie projects	\$0	\$65,000	\$0	\$0	\$0	\$65,000
WA-0021	Relocation of Harvest Ct Fire Hydrant	\$15,000	\$0	\$0	\$0	\$0	\$15,000
WA-0022	Clay Valve Rebuild at Finnell Rd and Yount, and Finnell Rd and Yountville XRd	\$8,000	\$0	\$0	\$0	\$0	\$8,000
WA-2023	Water Meter Replacement Program	\$30,500	\$32,000	\$33,500	\$35,500	\$37,500	\$169,000
WA-3023*	Main and Service Lateral Replacement Program	\$0	\$0	\$0	\$191,500	\$201,000	\$392,500
WA-4023	Hydrant & Main Flushing with No-Des	\$0	\$0	\$0	\$50,000	\$0	\$50,000
<b>Water Distribution Totals</b>		<b>\$193,500</b>	<b>\$132,000</b>	<b>\$33,500</b>	<b>\$565,500</b>	<b>\$5,038,500</b>	<b>\$5,963,000</b>

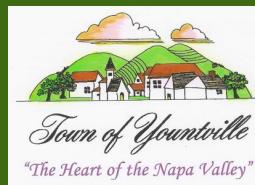
# CAPITAL IMPROVEMENT PROJECTS

**WA-0019; 1 MG WELL WATER TANK, WATER PUMP STATION &  
TRANSMISSION MAIN; +/- \$5,000,000**

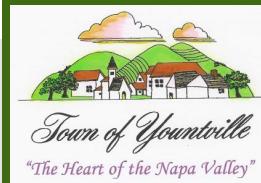


# CAPITAL IMPROVEMENT PROJECTS

## WASTEWATER ENTERPRISE



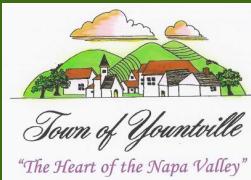
Project / Program #	Project Name	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	Total
WW-0011*	Joint Treatment Plant Office Modernization	\$803,000	\$0	\$0	\$0	\$0	\$803,000
WW-0012*	SCADA Controls	\$50,000	\$0	\$0	\$0	\$0	\$50,000
WW-0019*	Rebuild Sludge Heater & Add Sludge Mixing System	\$0	\$250,000	\$0	\$0	\$0	\$250,000
WW-0020*	Clean & Inspect Primary & Secondary Digester	\$35,000	\$0	\$0	\$0	\$0	\$35,000
WW-0024*	Assess & Replace Trickling Filter Media	\$0	\$0	\$0	\$40,000	\$300,000	\$340,000
WW-0027*	Design & Construct Headworks Improvements	\$0	\$0	\$150,000	\$0	\$0	\$150,000
WW-0028*	Sludge Handling/Drying/Disposal Improvements	\$0	\$0	\$0	\$200,000	\$0	\$200,000
WW-0030*	Second Fuzzy Filter Installation	\$0	\$0	\$100,000	\$0	\$0	\$100,000
WW-0031*	Facilities, Structures, and Equipment	\$0	\$0	\$0	\$100,000	\$0	\$100,000
WW-0032	Hinged Doors for Hand Well Access	\$20,000	\$0	\$0	\$0	\$0	\$20,000
WW-0033	Pump Station Assessment and Capacity Evaluation	\$40,000	\$0	\$0	\$0	\$0	\$40,000
WW-0034*	WWTP Basin Assessment, Maintenance and Repair	\$300,000	\$0	\$0	\$0	\$0	\$300,000
WW-0035	Recycled Water Transmission Main to Veterans Park	\$0	\$10,000	\$60,000	\$0	\$0	\$70,000
WW-0036*	Filling Station at South Parking Lot	\$0	\$50,000	\$0	\$0	\$0	\$50,000
WW-0037*	Headworks Grit Screw Chamber Improvement	\$0	\$25,000	\$0	\$0	\$0	\$25,000
WW-0038*	Grading and Drainage Improvements	\$0	\$25,000	\$25,000	\$0	\$0	\$50,000
WW-2023	Inflow and Infiltration Reduction Program (A-)	\$91,000	\$95,500	\$101,000	\$106,500	\$106,500	\$500,500
WW-3023	Sewer Main Replacement and Repair Program	\$88,500	\$93,000	\$97,500	\$102,500	\$102,500	\$484,000
WW-4023*	Plant Equipment Replacement Program	\$81,500	\$86,000	\$90,000	\$94,500	\$94,500	\$446,500
WW-5023	Town Pump Station Equipment Replacement Program	\$13,500	\$14,500	\$15,000	\$16,000	\$16,000	\$75,000
<b>Wastewater / Water Reclamation Totals</b>		<b>\$1,522,500</b>	<b>\$649,000</b>	<b>\$638,500</b>	<b>\$659,500</b>	<b>\$619,500</b>	<b>\$4,089,000</b>



# CAPITAL IMPROVEMENT PROJECTS

**WW-0024; ASSESS & REPLACE TRICKLING FILTER MEDIA**  
**\$340,000**





John Ferons  
Public Works Director  
707.944.8851  
[jferons@yville.com](mailto:jferons@yville.com)

# WATER AND WASTEWATER RATE STUDY



**BARTLE WELLS ASSOCIATES**  
INDEPENDENT PUBLIC FINANCE ADVISORS