

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
March 1, 2023 at 10:00 AM

Agenda for the Meeting of the Engineering Committee
of the Crescenta Valley Water District

Posted February 28, 2023 at 10:00 AM

TELECONFERENCING NOTICE

This meeting will be conducted in person at the address listed above. Members of the public may also participate virtually by using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increase phone traffic).

(669) 900-6833

(346) 248-7799

(929) 205-6099

(253) 215-8782

(301) 715-8592

(312) 626-6799

Then, enter Access Code: 851 1933 8406

[Pursuant to the above Executive Order, the public may not attend the meeting in person]

Those members of the public who are able to and would like to additionally participate with a computer through videoconference may access the Zoom videoconferencing tool available at the following link:

<https://us02web.zoom.us/j/85119338406>

If there is a disruption of service, this meeting will continue without remote participation. The remote participation option is provided a convenience to the public and is not required.

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at customerservice@cvwd.com. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Call to Order

Adoption of Agenda

Public Comment:

At this time, members of the public shall have an opportunity to address the Committee on items of interest that are within the subject matter jurisdiction of this Committee. This opportunity is non-transferable, and speakers are limited to three (3) minutes each. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Action Item(s)

The public shall have an opportunity to comment on any action item as each item is considered by the Committee. This opportunity is non-transferrable and speakers are limited to one two-minute (2) comment each.

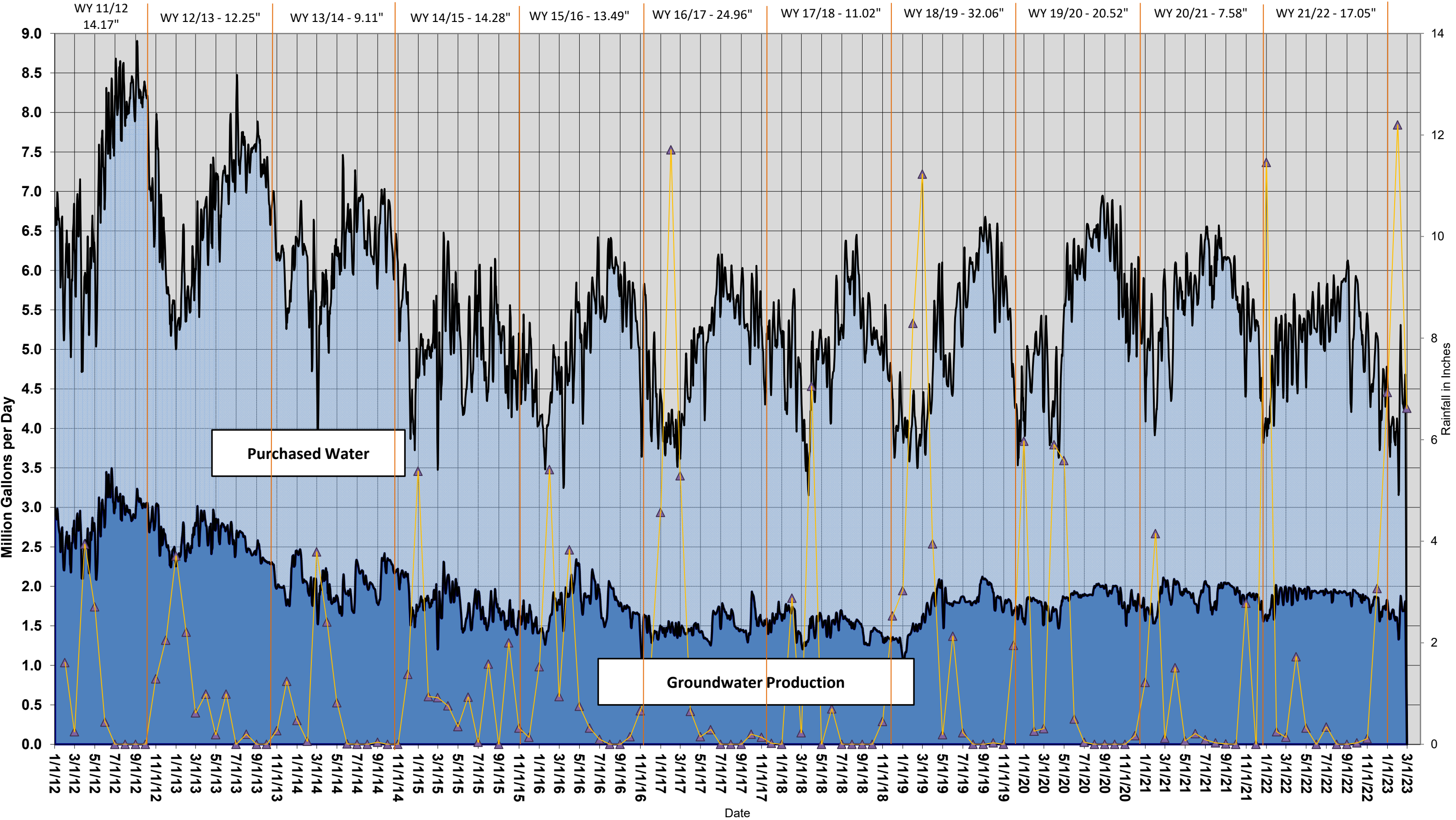
1. Status of Local & Imported Water Supply
2. Discussion of Long-Term Pipeline Replacement Schedule
3. Discussion of Conversion to Chloramine Disinfection
4. Status Update - FY 22/23 Capital Improvement Project Budget Update

Committee Members' Request for Future Agenda Items

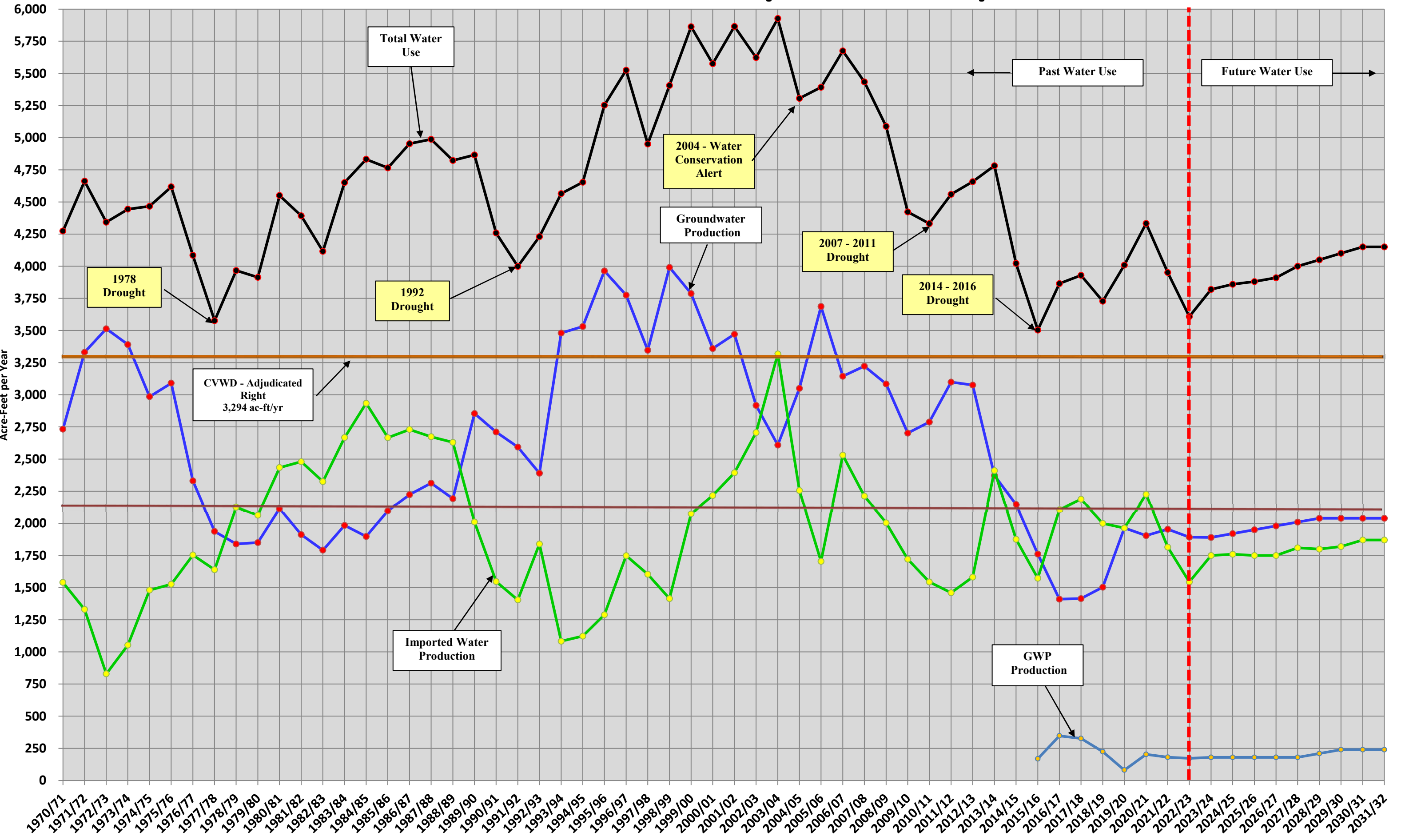
Adjournment

Water Production Chart w/ Rainfall 2012-2022

Groundwater Production (MGD) Total Water (MGD) Rainfall (in)



Total Water Use - FY 70/71 to FY 31/32



CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 2

March 1, 2023

To: Engineering Committee
From: Brook Yared, M.S., P.E. – Interim Director of Engineering & Operations
Subject: Discussion of Long-Term Pipeline Replacement Schedule

INFORMATION ITEM:

Discussion of CVWD's Long-Term Pipeline Replacement schedule after recent revisions were made to adjust to the current economic climate.

BACKGROUND:

On April 13, 2021, the Board moved to implement a multi-year (three years) rate schedule that supports long-term planning. The Board weighed long-term considerations for how to address significantly deferred infrastructure and additional infrastructure needs on the horizon since introducing the Long-Term Infrastructure and Funding Roadmap. Participants of the Roadmap campaign became acutely aware of a significant issue the District is facing and the estimated cost to address it.

Since adopting the ambitious roadmap for pipeline replacement in 2021, CVWD has encountered some budgeting shortfalls that have put us behind this critical infrastructure replacement plan. Originally in 2023, staff had planned to replace 6,300 lineal feet of water main. Due to conservation and higher than average rainfall this year, revenues only allow for the installation of roughly 2,500 linear feet of pipe. Additionally, supply chain issues and COVID-19 pandemic response measures early on in the schedule delayed some CIP work from being completed.

DISCUSSION:

Staff has provided a revised schedule to remain on track with the original pipeline replacement plan. Over the next 5 years, pipeline installation will need to increase in order to return to a 75-year replacement schedule.

Prepared & Submitted by:



Brook Yared, M.S., P.E.
Interim Director of Engineering and Operations

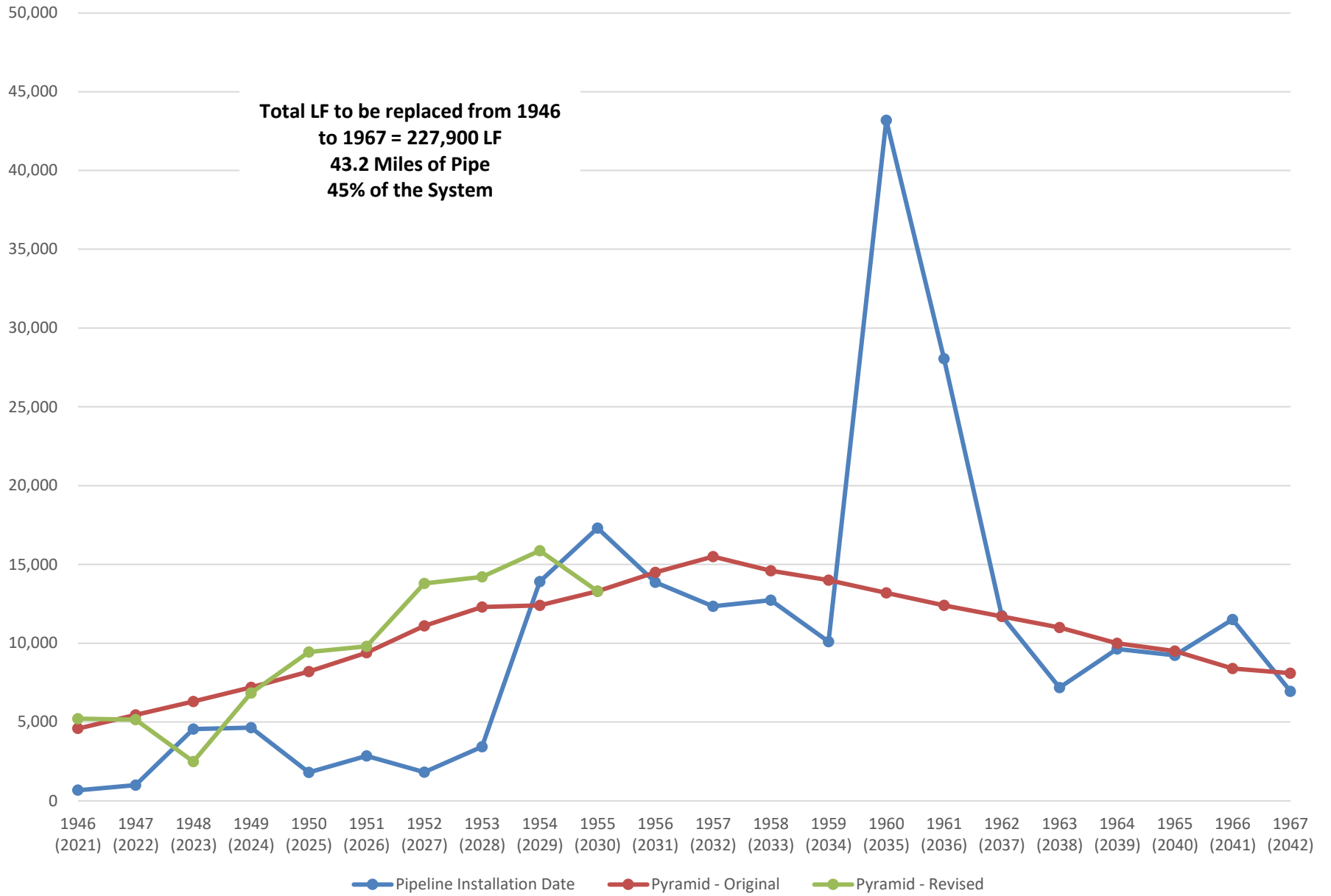
Attachments:

1. 5-year Pipeline Replacement Table
2. Pipeline Replacement Chart

g:\engineering committee\2023 ec memo\03012023\03-01-2023 ecm memo - long-term pipeline replacement schedule.docx

Pipeline Replacement - Pyramid Schedule - 75 Year Replacement Goal

**Total LF to be replaced from 1946
to 1967 = 227,900 LF
43.2 Miles of Pipe
45% of the System**



		Street Name	Block No.	Year Const or Replaced	Pipe Size (in)	Pipe Length (ft)	Length of Pipe Replace (ft)	Pipe Material	Years in Service
Year 1 - FY 20/21	1	JANET LEE	2400	2021	8	690	690	CMC & CML	2
		JANET LEE	2500	2021	8	600	1290	CMC & CML	2
	2	ROSEMONT	4300	2021	8	650	1940	CMC & CML	2
	3	ENCINAL	3400	2021	8	810	2750	CMC & CML	2
		ENCINAL	3500	2021	8	780	3530	CMC & CML	2
	4	PARAISO WAY	2700	2021	6	180	3710	CMC & CML	2
		DYER	4800	2021	8	380	4090	CMC & CML	2
		GLENWOOD	4800	2021	8	325	4415	CMC & CML	2
		STEVENS	2800	2021	8	125	4540	CMC & CML	2
		EL CAMINITO	2800	2021	8	680	5220	CMC & CML	2
Year 2 - FY 21/22	1	LOS OLIVOS	2800	1947	6	830	830	STD	76
		LOS OLIVOS	2900	1947	6	830	1660	STD	76
		LOS OLIVOS	3000	1946	6	790	2450	STD	77
		LOS OLIVOS	3100	1946	6	820	3270	STD	77
	2	ALABAMA	3200	1947	4	780	4050	STD	76
		CHERYL	4700	1947	4	140	4190	STD	76
		CHERYL	4800	1947	6	930	5120	STD	76
		THELMA	3300	1946	4	330	5450	STD	75
Year 3 - FY 22/23	1	ORANGE (NORTH)	2600	1953	12	1900	1900	CL&CMC	70
		Orange (North)	2600	1947	12		1900	CL&W	76
		ORANGE (SOUTH)	2600	1947	6		1900	STD	76
		Orange Ave.	2600	1954	6		1900	STD	69
		Orange Ave	2700	1953	8		1900	STD	70
		El Adobe Ln.	5000	1956	6	600	2500	CL&W	67
Year 4 - FY 23/24	1	MONTROSE (NORTH)	2400	1948	10	880	880	STD	75
		MONTROSE (NORTH)	2500	1948	10	820	1700	STD	75
		MONTROSE (NORTH)	2600	1948	10	910	2610	STD	75
		MONTROSE (NORTH)	2700	1948	10	940	3550	STD	75
	2	STEVENS	3000	1955	6	820	4370	CL&W	68
		STEVENS	3100	1950	6	810	5180	STD	73
	3	MARY	2900	1949	6	820	6000	STD	74
		MARY	2800	1973	6	850	6850	CL&W	50
Year 5 - FY 24/25	1	MARY	2900	1949	6	820	820	STD	74
		MARY	2800	1973	6	850	1670	CL&W	50
	2	FOOTHILL (NORTHERN PIPE)	3300	1948	4	290	1960	STD	75
		FOOTHILL	3200	1967	4	770	2730	OD	56
		FOOTHILL	3300	1967	4	820	3550	OD	56
	4	MONTROSE LN (NORTH ALLEY)	2200	1933	5	700	4250	OD	90
		HONOLULU (SOUTH ALLEY)	2200	1933	5	740	4990	OD	90
	5	ORANGE	3000	1952	8	910	5900	STD	74
		ORANGE	3100	1952	8	910	6810	STD	74
		ORANGE	3200	1957	6	710	7520	CL&W	69
	6	PENNSYLVANIA	5300	1940	6	500	8020	STD	86
		MARKRIDGE (EASEMENT)	3200	1940	6	1430	9450	STD	83
Year 6 - FY 25/26	1	PENNSYLVANIA	5300	1940	6	500	500	STD	86
		MARKRIDGE (EASEMENT)	3200	1940	6	1430	1930	STD	83
	2	TEASLEY	2300	1948	4	460	2390	STD	78
		TEASLEY	2300	1975	8	400	2790	CL&W	51
		TEASLEY	2400	1954	6	720	3510	STD	72
		TEASLEY	2500	1954	6	630	4140	STD	72
		TEASLEY	2500	1954	6	630	4140	STD	72
	3	MARY	2900	1949	6	820	4960	STD	74
		MARY	2800	1973	6	850	5810	CL&W	50
	4	ALABAMA	2800	1960	6	740	6550	CL&W	63
		ROSEMONT (EASTERN PIPE)	4500	1949	8	660	7210	STD	77
	5	ROSEMONT (WESTERN PIPE)	4600	1949	8	690	7900	STD	77
		ROSEMONT (WESTERN PIPE)	4700	1949	8	720	8620	STD	77
	6	CAMINITO LN	2900	1954	4	350	8970	STD	69

		Street Name	Block No.	Year Const or Replaced	Pipe Size (in)	Pipe Length (ft)	Length of Pipe Replace (ft)	Pipe Material	Years in Service
Year 7 - FY 26/27	1	EL SERENO	4800	1957	6	850	850	CL&W	69
		EL SERENO	4900	1957	6	430	1280	CL&W	69
	3	RAMSDELL (NORTH OF COMMUNITY)	4400	1949	6	590	1870	STD	74
		RAMSDELL (SOUTH OF COMMUNITY)	4400	1949	8	360	2230	STD	74
	4	FOOTHILL (Southern Easement)	2900	1949	6	800	3030	CL&W	74
		UPPER TERRACE	2400	1954	6	550	3580	STD	72
		UPPER TERRACE	2500	1954	6	610	4190	STD	72
		UPPER TERRACE	2600	1950	4	220	4410	STD	76
	6	ALABAMA	3000	1950	4	770	5180	STD	73
		ALABAMA	3100	1954	6	880	6060	STD	69
		CECILVILLE	4900	1951	4	810	6870	STD	75
		VICWOOD	4900	1951	4	850	7720	STD	75
	7	PARK VISTA	3200	1951	2	350	8070	STD	75
		PARK VISTA	3200	1951	4	300	8370	STD	75
	8	ORANGE	2800	1953	8	840	9210	STD	73
		ORANGE	2900	1953	8	800	10010	STD	73
	9	FRANCES	2400	1954	6	680	10690	STD	72
		FRANCES	2500	1954	6	610	11300	STD	72
	10	FREEMAN	5500	1955	6	540	11840	CL&W	71
		FREEMAN	5600	1955	6	550	12390	CL&W	71
		FREEMAN	5700	1955	6	450	12840	CL&W	71
		FREEMAN	5800	1955	6	950	13790	CL&W	71
Year 8 - FY 27/28	1	GROMER	3400	1948	3	260	260	STD	75
		FOOTHILL (SOUTHERN PIPE)	3000	1951	4	440	700	STD	75
		FRANCES	3100	1953	6	330	1030	CL&W	73
	2	COUNTRYSIDE LN	2500	1954	6	190	1220	STD	72
		BRIGGS	4500	1954	6	1150	2370	CL&W	72
		CARACAS	2300	1954	6	780	3150	STD	72
		FAIRESTA	3000	1954	6	810	3960	STD	72
	3	FOOTHILL (SOUTHERN PIPE)	2400	1954	6	500	4460	STD	72
		FOOTHILL (SOUTHERN PIPE)	2500	1954	6	840	5300	CL&W	72
	4	HARMONY	2400	1954	6	690	5990	STD	72
		HARMONY	2500	1954	6	600	6590	STD	72
	5	HUME	4600	1954	6	210	6800	CL&W	72
		JANVIER	4600	1954	6	280	7080	CL&W	72
		JANVIER	4800	1954	6	520	7600	STD	72
	6	LA CRESCENTA	5100	1954	8	840	8440	STD	72
		LA CRESCENTA	5200	1954	8	430	8870	STD	72
		LA CRESCENTA	5400	1954	12	710	9580	CL&W	72
	7	ORIN	4600	1954	6	200	9780	STD	72
		QUEENSVIEW	2500	1954	4	240	10020	STD	72
	8	MONTROSE	3500	1951	2	250	10270	STD	75
		MONTROSE	3400	1970	6	900	11170	CL&W	
	10	FOOTHILL (SOUTHERN PIPE)	2600	1955	8	910	12080	CL&W	71
		FOOTHILL (SOUTHERN PIPE)	2700	1955	8	880	12960	CL&W	71
		FOOTHILL (SOUTHERN PIPE)	2800	1955	8	850	13810	CL&W	71
		FOOTHILL (SOUTHERN PIPE)	3000	1955	6	400	14210	CL&W	71

RESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 3
March 1, 2023

To: Honorable President and Members of the Board of Directors
From: Brook Yared, M.S., P.E. – Interim Director of Engineering & Operations
Subject: Project Update – Conversion to Chloramines, Project E-995/E-1052

INFORMATION ITEM:

Disinfection Conversion to Chloramines, Project E-995/E-1052

Project update of CVWD's disinfection conversion to chloramines

BACKGROUND:

The District currently uses free chlorine as a disinfectant to treat drinking water. Free chlorine can create disinfection by-products during treatment, also known as Total Trihalomethanes or TTHMs, as chlorine reacts with naturally occurring organic matter in imported water, in particular water sourced in the Bay Delta, e.g., State Water Project (SWP). CVWD's other imported water supply comes from the Colorado River (CRW). SWP and CRA supplies are delivered by Metropolitan Water District of Southern California (MWD) through Foothill Municipal Water District (FMWD). Typically, CVWD's water supply blend is 60% groundwater, and 40% imported water. In August 2018, with groundwater production not fully recovered from the past drought, CVWD's water supply blend shifted to 40% groundwater, and 60% imported water. This, coupled with the additional chlorine needed to achieve breakpoint chlorination in the system, caused an increase in TTHMs levels at the four (4) regulatory compliance points within the distribution system.

Starting in September 2018, staff worked with Dr. Issam Najm from Water Quality & Treatment Solutions (WQTS), Carollo Engineers, and Hazen & Sawyer on the installation of a new chloramination system, which combines chlorine and ammonia to create chloramines. This included installation of new ammonia injection systems at four (4) sites, new mixers in four (4) reservoirs, new chlorine analyzers, and upgrades to the SCADA system to monitor chloramine levels. The installation of the new equipment and SCADA programming was completed in 2020, with the Department of Drinking Water (DDW) approving an amendment to CVWD's Water Supply permit.

Staff also implemented a water quality sampling plan to measure levels of TTHM's weekly to ensure CVWD complies with DDW's Disinfection By-product Rule. As shown on the attached charts, since August 2018, CVWD's TTHM quarterly running annual average level has trended below the maximum contaminate level (MCL) of 80 micrograms/liter. Levels have been well below the MCL since these measures were implemented.

On August 23, 2022, the Board authorized the award of contract for the Completion of the Conversion to Chloramines, E-1052. At that time, Brown and Caldwell had won the award with Helene Baribeau, Ph.D., as their Project manager. Dr. Baribeau's expertise in water quality and implementation of similar projects made her uniquely qualified to lead this effort. The key tasks of her work included the following:

1. Document Review: Provide quality reviews of previously prepared documents:
 - Control Strategy at the Glenwood Water Treatment Plant (October 2019)
 - Nitrification Prevention, Monitoring, and Control Plan (June 2020)
 - Design documents of the chloramination facilities
 - Operational guidelines of the chloramination facilities
 - CVWD's amended DDW water supply permit
2. Data Analysis: Review water quality evaluations to identify potential challenges associated with the conversion to chloramines and the potential for nitrification.
3. Review of System Preparation: Evaluate equipment and processes that have been completed by CVWD, including cleaning of storage tanks, pipe flushing, customer notifications, or others.
4. Chloramine Conversion Plans: Develop a Chloramine Conversion Plan (CCP) for CVWD's distribution system, including a description of the pressure zone areas, proposed procedures to conduct before, during, and after the chloramine conversion.

5. Staff Training: Provide guidelines and assistance to CVWD staff who may not be familiar with the nuances of nitrification or operating a chloraminated system. Staff training will be essential to ensure that everyone understands the challenges of chloramination and the opportunities and benefits.

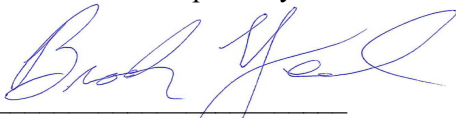
The original Project Schedule called for planning to occur between October 2022 to January 2023 and implementation to occur in the Spring of 2023. Contract negotiations with Brown and Caldwell slowed the start of the project in the Fall of 2022. A data review meeting was held on December 8, 2023.

DISCUSSION:

Since the data submission that resulted from the December 8, 2023, meeting, Dr. Baribeau has departed Brown and Caldwell. Dr. Baribeau indicated that she will not be able to keep the District on as a client in her new capacity. Brown and Caldwell also expressed that it does not have a replacement in mind to carry on with the project. Staff is currently evaluating other qualified candidates to move forward with as alternatives for support during this transition to Chloramines.

This communication provides an update on the previously set project schedule. While the District transitions to a new contract, TTHM levels are trending lower due to improved mixing, increased monitoring, and lower SWP blends. The next update on this project will include recommendations on utilizing a new consultant and revising the project schedule.

Submitted & Prepared by:

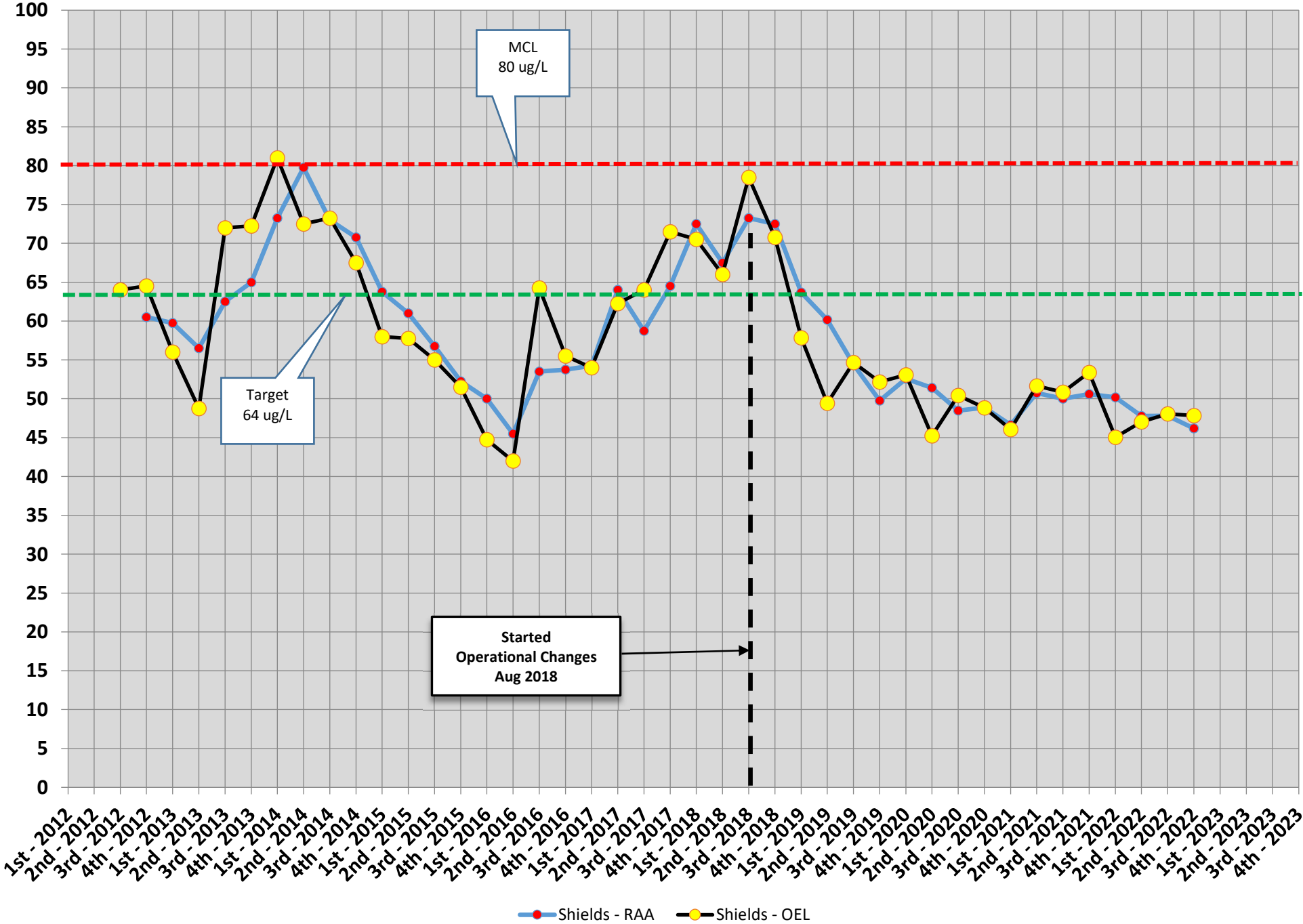


Brook Yared, M.S., P.E.
Interim Director of Engineering & Operations

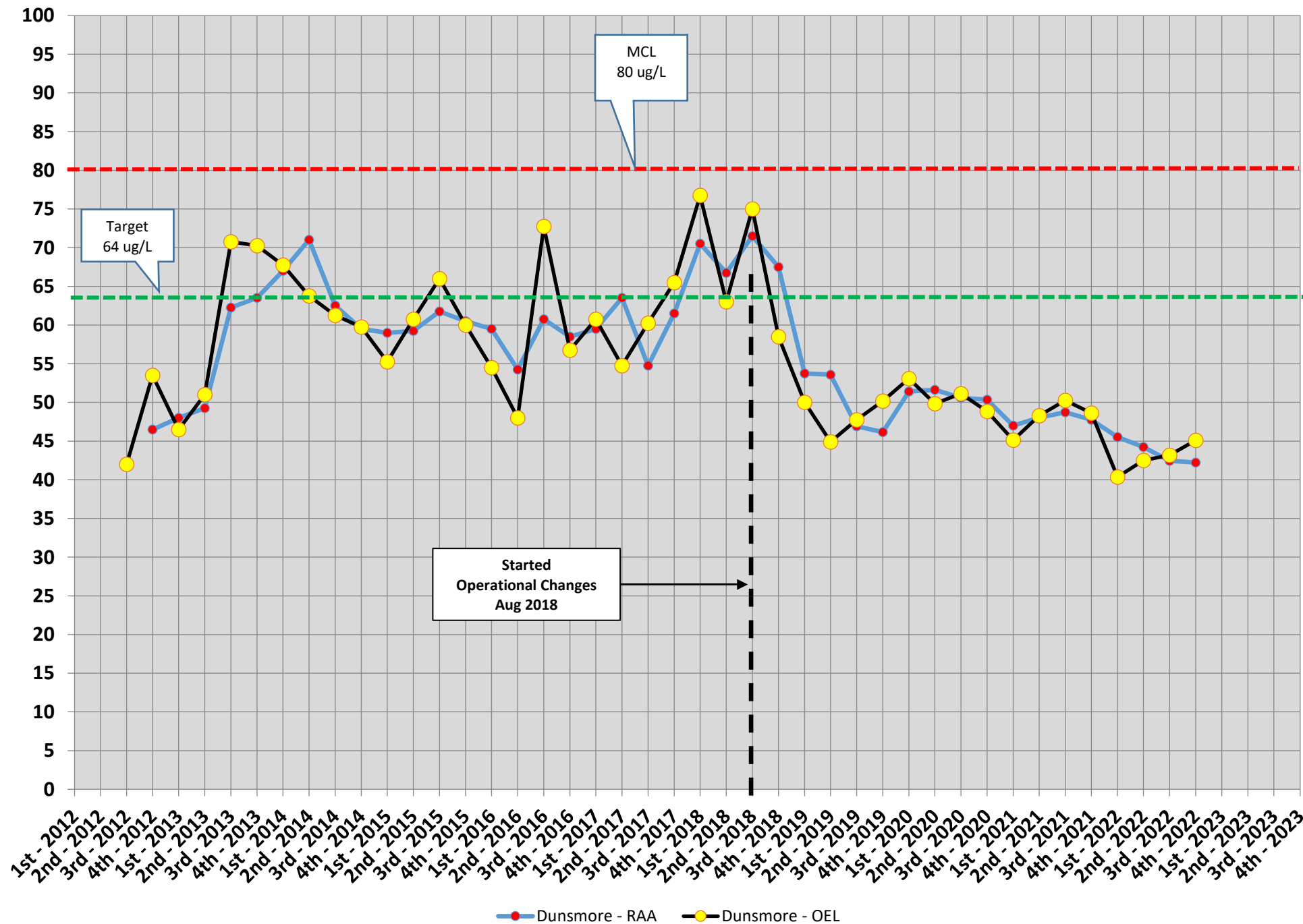
Attachments:

1. TTHM Reservoir site charts & TTHM Compliance charts

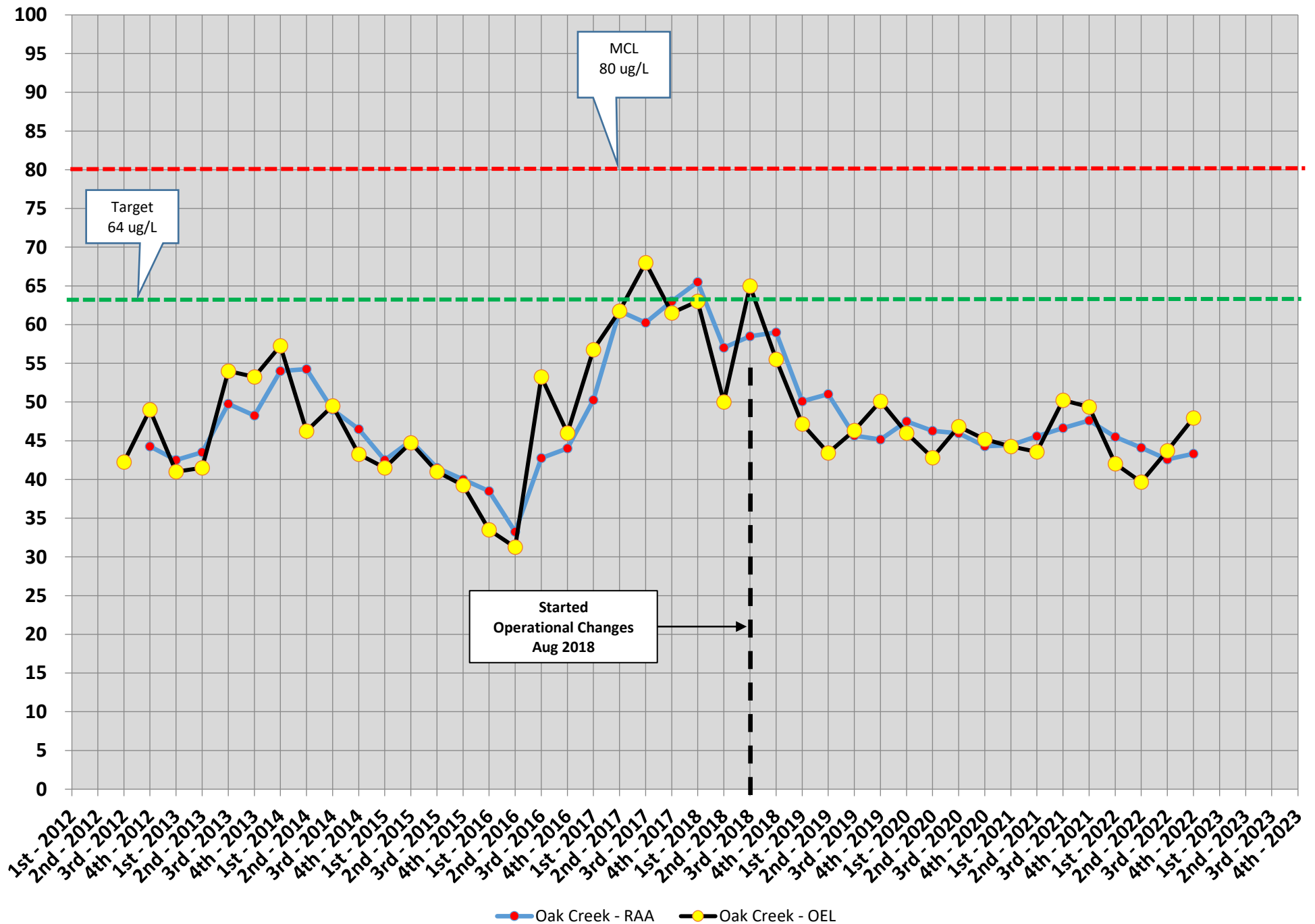
Shields - Quarterly TTHM - Running Annual Average 2012 - 2023



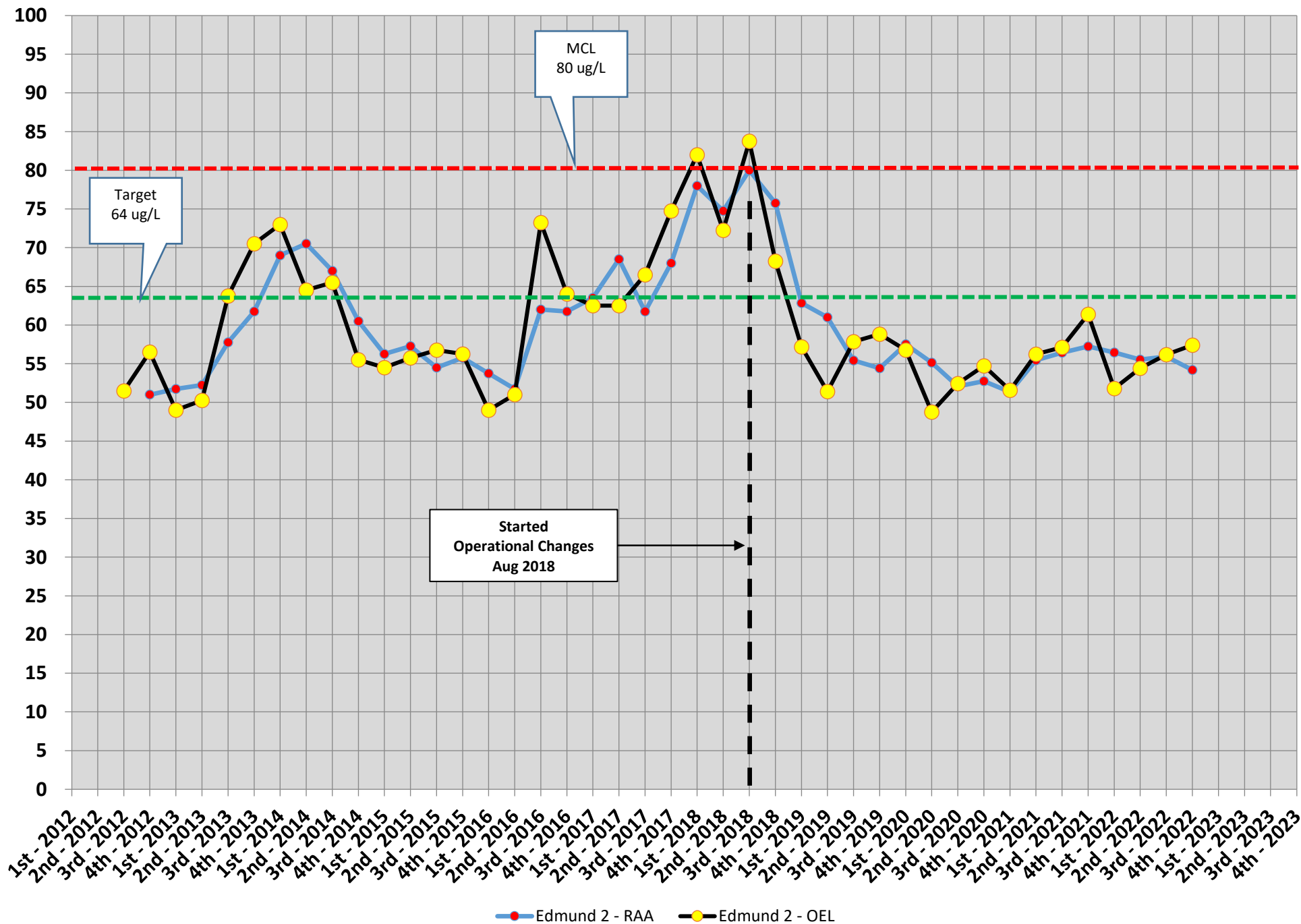
Dunsmore - Quarterly TTHM - Running Annual Average 2012 - 2023



Oak Creek - Quarterly TTHM - Running Annual Average 2012 - 2023



Edmund II - Quarterly TTHM - Running Annual Average 2012 - 2023



CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 4

March 1, 2023

To: Engineering Committee
From: Brook Yared, M.S., P.E. – Interim Director of Engineering & Operations
Subject: Status Update - FY 22/23 Capital Improvement Project Budget

DISCUSSION:

The following is an update of the 22/23 Capital Improvement Project status and budget update.

1. **3200 Block of Alabama 4700 Block of Cheryl (E-1034)**
 - a. Construction Complete
 - b. Negotiating additional Paving Costs
2. **2600 & 2700 Block of Orange & 5000 Block of El Adobe (E-1046)**
 - a. Construction on hiatus until June 2023
 - b. Materials and permitting continuing this year
 - c. FY 23/24 Budget Carryover for Construction: \$ 958,100
3. **Transfer of Services to Glendale Water and Power (E-1051)**
 - a. Transferring Services of Frederick and Thelma to Glendale Water and Power to avoid capital replacement.

FY 2022/23 CIP Program Cost Update: 3/1/23	E-Job	Recorded FY 21/22	Budget FY 22/23	FY 22/23 Cost to date from 7/1/22 to 2/28/23	FY 22/23 Cost Committed from 3/1/23 to 6/30/23	Projected EOY FY 22/23	Total Cost
2800 to 3100 blocks of Los Olivos Lane - 3,400 LF	E-1033	\$ 1,032,095	\$ 442,000	\$ 496,187	\$ 45,000	\$ 541,187	\$ 1,573,282
4700 Block of Cheryl & 3200 Block of Alabama - 1,750 LF	E-1034	\$ 261,596	\$ 615,637	\$ 529,370	\$ 35,000	\$ 564,370	\$ 825,966
2600 & 2700 Block of Orange & 5000 Block of El Adobe - 2425 LF	E-1046	\$ 1,748	\$1,350,000	\$142,500	\$250,000	\$392,447	\$ 1,350,000

4. **Steel Reservoir Rehabilitation**
 - a. Edmund #2 (E-1036)
 - i. Scheduling Warranty Inspection
 - b. Goss Canyon #1 (E-1053)
 - i. Construction began week of January 16, 2023

FY 2022/23 CIP Program Cost Update: 3/1/23	E-Job	Recorded FY 21/22	Budget FY 22/23	FY 22/23 Cost to date from 7/1/22 to 2/28/23	FY 22/23 Cost Committed from 3/1/23 to 6/30/23	Projected EOY FY 22/23	Total Cost
Edmund #2 - Reservoir Rehabilitation	E-1036	\$ 644,495	\$ 53,772	\$ 31,992	\$ -	\$ 31,992	\$ 686,927
Goss Canyon #1 - Reservoir Rehabilitation	E-1053	\$ -	\$ 800,000	\$ 19,618	\$ 680,382	\$ 700,000	\$ 800,000

5. **Replacement of SCADA Equipment, Programing & Integration (E-939)**
 - a. Project Schedule – April 2022 to October 2023
 - b. APEX – Programing & Integration
 - i. Sites Completed – Wells 5, 7, 8, 9, 11, 14 & 16
 - ii. Ramsdell Mixing Station & Glendale/CVWD Interconnection
 - iii. Encinal Reservoir

- iv. Glenwood Plant with Wells 6, 10, 12 & 15
- v. Mills Plant with Well 1
- c. Sites Pending Integration (2022)
 - i. Ordunio Reservoir March 2023
 - ii. Williams Reservoir April 2023
 - iii. Paschall Booster Station and Rosemont Reservoir May 2023
- d. Radio Communication Upgrade – Moved to FY 23/24

FY 2022/23 CIP Program Cost Update: 3/1/23	E-Job	Recorded FY 21/22	Budget FY 22/23	<i>FY 22/23 Cost to date from 7/1/22 to 2/28/23</i>	<i>FY 22/23 Cost Committed from 3/1/23 to 6/30/23</i>	Projected FY 22/23	Total Cost
<i>Communication Radio Network</i>	E-1025	\$ 17,610	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ 90,527
<i>SCADA Replacement - Installation</i>	E-939		\$ 395,000	\$ 27,148	\$ 367,852	\$ 395,000	\$ 860,000

6. AMI – Customer Engagement Platform (E-1035)

- a. Customer Portal layout and content by WaterSmart completed

7. AMI – Installation of ¾” & 1” meters (E-1035)

- a. Installation of 640 additional ¾”-1” meters
- b. Scheduling remaining meter upgrades

8. AMI – Installation of 3” & 4” meters (E-1031) – USBR Grant

- a. Install and connect 32 – 3” & 4” meters starting in September 2022
- b. 1-1/2-inch meter installation construction deferred to FY 23/24

FY 2022/23 CIP Program Cost Update: 3/1/23	E-Job	Recorded FY 21/22	Budget FY 22/23	<i>FY 22/23 Cost to date from 7/1/22 to 2/28/23</i>	<i>FY 22/23 Cost Committed from 3/1/22 to 6/30/23</i>	Projected FY 22/23	Total Cost
<i>AMI - Communication</i>	E-1020	\$ 111,847	\$ -	\$ 9,511	\$ -	\$ 9,511	\$ 336,438
<i>GRANT - 3” & 4” Smart Meters</i>	E-1031	\$ 56,165	\$ 144,000	\$ 3,256	\$ 140,744	\$ 144,000	\$ 201,169
<i>AMI - Meter Lids - Zones 9, 10 & 11</i>	E-1054	\$ -	\$ 220,000	\$ 14,884	\$ 205,116	\$ 220,000	\$ 220,000
<i>AMI - Customer Service Interface</i>	E-1035	\$ 57,402	\$ 26,000	\$ 5,064	\$ 26,000	\$ 31,064	\$ 88,500
<i>GRANT - 1-1/2” Smart Meters - USBR Grant</i>	E-1041	\$ 1,664	\$ 335,000	\$ -	\$ 125,000	\$ 125,000	\$ 336,664

9. Conversion of Disinfection System to Chloramines (E-1052)

- a. Awarded Contract to Brown & Caldwell
- b. Kickoff Meeting – October 18, 2022
- c. Data Submission Meeting – December 8, 2022
- d. See Memo

FY 2022/23 CIP Program Cost Update: 3/1/23	E-Job	Recorded FY 21/22	Budget FY 22/23	<i>FY 22/23 Cost to date from 7/1/22 to 2/28/23</i>	<i>FY 22/23 Cost Committed from 3/1/22 to 6/30/23</i>	Projected FY 22/23	Total Cost
<i>Conversion to Chloramination</i>	E-995/ E-1052	\$ -	\$ 100,000	\$ 12,274	\$ 87,726	\$ 100,000	\$ 1,594,672

10. FEMA Local Hazard Mitigation Plan (M-1004)

- a. Project 1 – New emergency electrical generators at 5 sites - Deferred pending Grant availability.
 - i. New stationary generators at Mills Plant, Paschall Booster Station, & Wells 5, 7 & 9
 - ii. Preliminary cost – \$1.5M
 - 1) 75% reimbursement from Cal OES - \$1.125M
 - 2) 25% reimbursement from CVWD - \$375,000
- b. Project 2 – Seismic Evaluation of CVWD’s facilities application – Deferred pending Grant availability.
 - i. Facilities Seismic Vulnerability Study for Main Office and Glenwood Building
 - ii. Preliminary cost – \$100,100
 - 1) 75% reimbursement from Cal OES – \$75,075
 - 2) 25% reimbursement from CVWD – \$25,025

11. New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station (E-977)

- a. Hydraulic Modeling Review Complete
- b. Reviewing Design Options

FY 2022/23 CIP Program Cost Update: 3/1/23	E-Job	Recorded FY 21/22	Budget FY 22/23	<i>FY 22/23 Cost to date from 7/1/22 to 2/28/23</i>	<i>FY 22/23 Cost Committed from 3/1/23 to 6/30/23</i>	Projected FY 22/23
<i>Upgrade - Ramsdell Mixing Station</i>	E-977	\$ 48,594	\$ 49,310	\$ 7,645	\$ -	\$ 7,645

12. Well 9 Rehabilitation

- a. Construction Begins March 2, 2023

13. Booster 26 at Cresta Heights Replacement

- a. Incentive Application Submitted
- b. Replacement scheduled for May 2023

14. Wastewater Master Plan

- a. GIS and Hydraulic Model Update in Progress
- b. CIP Development beginning May 2023

SUMMARY:

Staff continues to provide updated information to the Engineering Committee as the FY 22/23 CIP program progresses over the next two months.

Prepared & submitted by:



Brook Yared, M.S., P.E.

Interim Director of Engineering & Operations