

CRESCENTA VALLEY WATER DISTRICT

**2700 Foothill Boulevard
La Crescenta, California**

**Agenda for the
Regular Meeting of the Board of Directors
of the Crescenta Valley Water District
to be held on February 12, 2019 at 7:00 p.m.**

Posted: February 8, 2019 at 3:00 p.m.

Any written materials distributed to the Board in connection with this agenda will be made available at the same time for public inspection at the District office located at the above address.

Call to Order and Determination of Quorum

Pledge of Allegiance

Adoption of Agenda

Public Comments

At this time the public shall have an opportunity to comment on any non-agenda item relevant to the subject matter jurisdiction of the Board. This opportunity is non-transferable and speakers are limited to one three (3) minute comment.

Foothill Municipal Water District Report

1. Report on activities at Foothill Municipal Water District.

Consent Calendar

1. Consideration and approval of the Minutes of the Adjourned Regular Meeting on January 22, 2019.
2. Consideration of attendance at the ACWA Spring Conference to be held May 6-10, 2019 in Monterey, CA.

Action Calendar

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

1. **Acceptance of Audited Financial Statements for Fiscal Year 2017-18** – Consideration and motion to accept the audited Financial Statements for Fiscal Year 2017-18.
2. **Discussion on Estimation of Water Demand for FY 2019-20 Budget** – Discussion on the estimated water demand for FY 2019-20 and the next 5-years as part of the FY 2019-20 Budget.
3. **TTHM Study and Disinfection Process Upgrades, Project E-995** - Discussion and update of CVWD's TTHM study and disinfection process upgrades.

Information Items

Written Communications to District/Board of Directors

General Manager's Report

Attorney Report

Reports of Committees

- Engineering Committee
- Finance Committee
- Employee Relations Committee
- Policy Committee
- Community Relations/Water Conservation Committee
- Emergency Planning Committee

Director's Oral Reports

Report on issues, meetings, or activities attended by Directors.

Closed Session

Conference with Legal Counsel - Existing Litigation (Gov. Code Section 54956.9(d)(1))

- Carlos Alvarez v. Crescenta Valley Water District (Case No. 18STCV04335)

Board Members' Request for Future Agenda Items

Adjournment

CRESCENTA VALLEY WATER DISTRICT
ADJOURNED REGULAR MEETING, BOARD OF DIRECTORS

January 22, 2019

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District, made at the Regular Meeting on January 8, 2019, an Adjourned Regular Meeting was held on January 22, 2019, at 7:00 p.m. at the District office at 2700 Foothill Blvd., La Crescenta, California, with President James D. Bodnar presiding.

At roll call, the following Directors and staff members were present:

Directors:	James D. Bodnar Michael L. Claessens Kerry D. Erickson Kenneth R. Putnam Judy L. Tejada
Attorney:	Thomas S. Bunn
General Manager:	Nem Ochoa
Secretary-Treasurer:	Ron L. Mitchell
District Engineer:	David S. Gould
Others Present:	Mark Hass, IT Manager Christy Scott, Program Manager Wendy Holloway, Customer Service Supervisor Pam Leddy, Administrative Assistant Dennis Maxwell, Operation & Maintenance Manager James Lee, Finance & Accounting Manager Brook Yared, Senior Engineer Nina Jazmadarian, General Manager FMWD Richard Atwater, FMWD Director Frank Colcord, FMWD Director

PLEDGE OF ALLEGIANCE

President Bodnar opened the meeting by asking Director Erickson to lead the Directors and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA

It was moved by Director Tejada, seconded by Director Claessens and carried by a 5-0 vote to amend the Agenda for the Adjourned Regular Meeting of January 22, 2019 by moving the Foothill Report and Consent Calendar to after Action Item #1 and adopt the agenda as amended.

PUBLIC COMMENTS - None

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – Mr. Colcord stated that he was glad that Mr. Ochoa invited Nina Jazmadarian to the meeting tonight.

CONSENT CALENDAR

It was moved by Director Erickson, seconded by Director Tejeda and carried by a 5-0 vote to approve the Minutes of the Regular Board Meeting held on January 8, 2019 and to ratify the disbursements for December 2018.

Payment of demands against the Crescenta Valley Water District on or before December 31, 2018 the same having been approved by the General Manager, Nem Ochoa and heretofore paid, be ratified and approved subject to audit, in the aggregate sum of Eight Hundred Twenty-Eight Thousand, Nine Hundred Fifty Dollars and Ninety-One cents (\$828,950.91), which is composed of the individual items set forth herein.

ACTION CALENDAR

Appeal of a High Water Bill – Mr. Mitchell reported that Earl & Velvet Ahten own the property at 2921 Fairmount Avenue and the average usage is 20 billing units for August 31st however the consumption came in at 41 units for the August 31, 2018 billing period. The three previous billing cycles came in at 14 billing units each. It is not uncommon for a customer to have a consistent water usage. When they received their bill, they contacted the office and a service request was sent out, which showed no leak and the reading is correct. Staff met with the customer and did a download on the meter and provided a graph of the download information. It looked like water was being used constantly for several days. On October 2, 2018 per the customer's request, staff pulled and tested the meter for accuracy, with Mr. Ahten present to witness the test. The test concluded that the meter was 99.25% accurate. The Ahtens still disputed the billing, saying the meter was not registering correctly. The meter was changed and the consumption for the next billing showed 7 billing units. The Ahtens are requesting an adjustment for the billing on August 31, 2018.

Following discussion:

It was moved by Director Putnam, seconded by Director Tejeda and carried by a 4-1 vote (Bodnar) to average the consumption for the August billing over the last three years, and bill for the average consumption. Also, have the manufacturer evaluate the meter that was removed.

FMWD Rates, Capital Improvement Program & Reserves – Nina Jazmadarian, General Manager from Foothill Municipal Water District gave a presentation on the Foothill MWD Budget, Rates, CIP and Reserves. She reviewed the process, the allocation of revenues for CVWD, rates and charges, purchase order of Tier 1/Tier 2, MWD readiness to serve charge, MWD capacity charge, energy pass through charge, Administrative and O& M charges, the FMWD CIP & Reserves, and the Budget summary.

Rehabilitation of Well #1 and Well #7, Project E-999 – Mr. Gould reported that on December 26, 2018, staff sent out a Request for Quotes to five pump and well contractors for the rehabilitation for Well #1 and #7. A mandatory pre-bid meeting was held on January 9, 2019 with General Pump Company of San Dimas the apparent low bidder for the project at a cost of \$127,620. The engineer's estimate was \$153,000. This project is exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the CEQA Guidelines.

Following discussion:

It was moved by Director Putnam, seconded by Director Erickson and carried by a 5-0 vote to authorize the General Manager to award a contract to General Pump Company, Inc. for the rehabilitation of Wells 1 and 7 at a cost of \$127,620 and establish a contingency amount of \$12,760 (10% of contract) to cover the cost of unforeseen or additional work.

CVWD's 8-inch Water Main Construction on Brookhill Street, Project E-982 – Mr. Yared reported that over the course of the project, several unforeseen construction activities arose that were not part of the original contract which resulted in additional costs. Staff has been working with Brkich Construction to review and finalize all changes orders as outlined in the Contract Specifications. Staff redesigned the project and made adjustments to avoid the costly Quail Creek channel crossing and reduced the number of fire hydrants in the area while adhering to the fire and safety regulations. These design changes reduced the project cost by \$33,118. With the change orders and design changes, the increase in cost is \$19,127 above the amount approved by the Board. It is staff's recommendation to authorize the General Manager to amend the construction contract with Brkich Construction to cover the additional project cost.

Following discussion:

It was moved by Director Bodnar, seconded by Director Tejeda and carried by a vote of 5-0 to authorize the General Manager to amend the contract agreement with Brkich Construction for final project closeout and unforeseen change orders that increased the overall construction cost by up to \$19,127.

TTHM Mitigation and Disinfection Process Upgrades, Project E-995 – Mr. Gould gave an update on the TTHM's, and where we are currently. Since January 8th, the delivery of the vault from Jensen Precast has been delayed due to shop drawing revisions and we should have by March 2019. Staff and WTQS met to discuss updating CVWD's water quality distribution sampling plan for submittal to DDW for approval. Staff met with Hazen and Sawyer on the design of the six chlorine analyzers. Staff met with the Glendale Fire Department and it was determined that no permits are required for the installation of the ammonia injection system. Also, Valve Tek has revised the schedule to start flushing of the dead end water mains on February 11, 2019.

INFORMATION ITEMS – None

WRITTEN COMMUNICATIONS TO DISTRICT – ACWA/JPIA – President's Special Recognition Award certificates for achieving a low ratio of "Paid Claims and Case Reserves to Deposit Premiums" in the Liability Program for the period of 10/01/14 to 09/30/2017 and in the Workers' Compensation Program for the period of 07/01/2014 to 06/30/2017. Mr. Mitchell reported that the District has gone 1,687 days without a lost time accident.

REPORTS OF PERSONNEL

GENERAL MANAGER – Mr. Ochoa reported on a new energy provider, Clean Power Alliance. This is isolated to Los Angeles County and this entity was created from AB117. We are given a choice for our electricity needs with either Southern California Edison or Clean Power Alliance, but Clean Power Alliance will be the default unless we opt out by mid-February.

Mr. Gould reported that the rainfall for the month of January was 6.85” with a total year to date of 10.5”, which is 25% below average. Also, on January 15, 16, 17, staff met with UtiliWorks and discussed AMI strategy and planning.

ATTORNEY – No Report

REPORTS OF COMMITTEES

Engineering Committee – Director Erickson reported that the Committee met on January 17, 2019 and reviewed the status of groundwater wells and capacity, final completion of the 8-inch water main replacement on the 2700, 3000, & 3100 blocks of Brookhill, and the FY 18/19 CIP Project update. The Committee will meet on February 22, 2019 at 9:00 a.m.

Finance Committee – Director Putnam reported that the Committee had not met; however, a meeting will be scheduled as needed.

Employee Relations Committee – Director Bodnar reported that the Committee will meet on January 25, 2019 at 9:00 a.m.

Policy Committee – Director Claessens reported that the Committee had not met; however, a meeting will be scheduled as needed.

Community Relations/Water Conservation Committee – Director Tejeda reported that the Committee had not met; however, a meeting will be scheduled as needed.

Emergency Planning Committee – Director Tejeda reported that the Committee had not met; however, a meeting will be scheduled as needed.

Executive Committee – Director Bodnar reported that the Committee had not met; however, a meeting will be scheduled as needed.

DIRECTORS ORAL REPORTS

Director Bodnar – No Report

Director Claessens reported on the AMI presentation. The company, UtiliWorks, seemed to be very astute and very bright. One of the concerns is that there doesn’t seem to be a linkage between what they are proposing to do and a benefit to our customers.

Director Tejeda reported that Directors Erickson, Claessens and she attended the meeting on the new LA County voting procedures that will be used in 2020 and it will be completely changed and should stop the long lines. They will use a computerized list of the voters and you will be able to register to vote the day of the election. You can vote from anywhere using the computer or cell phone with an app, and you can also get a receipt after you vote on your phone. This will help stop the hacking. She also participated in a JPIA webinar at the District office on how to go from a group to a team and how to succeed.

Director Putnam reported on an article regarding carbon reduction. Our country is the highest user and it could affect our life style. We need to find ways to reduce it. Everyone in the United States is asked to reduce the use of carbon.

Director Erickson reported on the new voting procedure also. They will have cell locations to go to and it may cause voting issues. They will be hiring people, not just volunteers, which could cause an increase on the voting cost. He also reported on a meeting at the Library regarding the installation of a cell tower.

ADJOURNMENT

There being no other business to come before the Board, at 8:58 p.m. it was moved by Director Claessens, seconded by Director Tejeda and carried by a 5-0 vote that the meeting be adjourned to February 12, 2019, at 7:00 p.m.

APPROVED

James D. Bodnar
President

Ron L. Mitchell
Secretary-Treasurer



CONSENT ITEM #2

ACWA 2019 Spring Conference & Exhibition PRELIMINARY AGENDA May 7-10, 2019 • Monterey

ACWA JPIA - MONDAY, MAY 6

8:30 - 10:00 AM

- ACWA JPIA Program Committee

10:15 - 11:15 AM

- ACWA JPIA Executive Committee

1:30 - 4:00 PM

- ACWA JPIA Board of Directors

4:00 - 5:00 PM

- ACWA JPIA Town Hall

5:00 - 6:00 PM

- ACWA JPIA Reception

TUESDAY, MAY 7

8:00 AM - 9:45 AM

- Agriculture Committee

8:00 AM - 6:00 PM

- Registration

8:30 AM - Noon

- ACWA JPIA Seminars

9:00 AM - 4:00 PM

- ACWA Legal Briefing & CLE Workshop

10:00 - 11:45 AM

- Groundwater Committee
- Local Government Committee

11:00 AM - Noon

- Outreach Task Force

Noon - 2:00 PM

- ACWA 101 & Luncheon
- Committee Lunch Break

1:00 - 2:45 PM

- Energy Committee
- Finance Committee
- Scholarship & Awards Subcommittee
- Water Management Committee

1:30 - 3:30 PM

- ACWA JPIA: Sexual Harassment Prevention for Board Members & Managers (AB 1825)

3:00 - 4:45 PM

- Communications Committee
- Federal Affairs Committee
- Membership Committee
- Water Quality Committee

5:00 - 6:30 PM

- Welcome Reception in the Exhibit Hall

WEDNESDAY, MAY 8

7:30 AM - 5 PM

- Registration

8:00 - 9:45 AM

- Opening Breakfast (*Ticket Required*)

8:30 AM - Noon & 1:30 - 6:00 PM

- Exhibit Hall

10:00 - 11:30 AM

- Attorneys Program
- Energy Committee Program
- Exhibitor Demos
- Finance Program
- Region Issue Forum
- Statewide Issue Forum
- Water Industry Trends Program

11:30 - 11:45 AM

- Networking in the Exhibit Hall

11:45 AM - 1:45 PM

- General Session Luncheon (*Ticket Required*)

2:00 - 3:15 PM

- Attorney Program
- Communications Committee Program
- Energy Committee Program
- Exhibitor Case Study
- Region Program
- Statewide Issue Forum
- Water Industry Trends Program

3:30 - 4:45 PM

- Aquatic Resources Subcommittee
- Exhibitor Case Study
- Finance Program
- Local Government Committee
- Statewide Issue Forums
- Water Industry Trends Program

3:30 - 5:30 PM

- Legal Affairs Committee

5:00 - 6:00 PM

- Prize Drawing Fiesta Night in the Exhibit Hall

5:30 - 7:00 PM

- CalDesal Hosted Mixer
- Jacobs Hosted Reception

THURSDAY, MAY 9

7:30 AM - 4 PM

- Registration

7:45 - 9:15 AM

- Regions 6-10 Membership Meetings

8:00 AM - Noon

- Exhibit Hall

8:00 - 9:15 AM

- Networking Continental Breakfast, Exhibit Hall (*Ticket Required*)

9:30 - 11:00 AM

- Attorneys Program
- Exhibitor Demos
- Finance Program
- Region Issue Forum
- Statewide Issue Forum
- Water Industry Trends Program

9:30 - 11:45 AM

- Ethics Training (AB 1234) - *Limited Seating*

11:00 - 11:30 AM

- Prize Drawings in the Exhibit Hall

11:45 AM - 1:45 PM

- General Session Luncheon (*Ticket Required*)

2:00 - 3:15 PM

- Attorneys Program
- Exhibitor Case Studies
- Federal Issues Forum
- Statewide Issue Forum
- Water Industry Trends Program

3:30 - 5 PM

- Regions 1-5 Membership Meetings

6:00 - 7:00 PM

- Gen Jam Reception

7:00 - 10:00 PM

- Dinner & Entertainment (*Ticket Required*)

FRIDAY, MAY 10

8:00 - 9:30 AM

- Registration

8:30 - 10:00 AM

- ACWA's Hans Doe Past Presidents' Breakfast in Partnership with ACWA JPIA (*Ticket Required*)

OTHER EVENTS

TUESDAY, MAY 7

7:00 AM - 4 PM

- ACWA Spring Conference Golf Tournament

THURSDAY, MAY 9

6:45 - 8:30 AM

- San Joaquin Valley Agricultural Water Committee

All conference programs are subject to change.

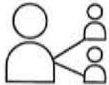
Last modified: January 29, 2019

REGISTRATION, MEALS AND HOTEL PRICING SHEET



REGISTER ONLINE

Register online by **April 19, 2019** at www.acwa.com to take advantage of the advance pricing.



REGISTER ON SOMEONE'S BEHALF

Select from a list of people affiliated with your company in your account. If the registrant is not listed, you will need to create a Portal profile for the registrant before registering.

REGISTRATION OPTIONS <i>Advantage pricing applies to ACWA public agency members, associates & affiliates. Standard pricing applies to non-members of ACWA.</i>	ADVANCE DEADLINE: 4/19/19		ONSITE	
	ADVANTAGE	STANDARD	ADVANTAGE	STANDARD
Full Conference Registration & Meals Package	\$725	N/A	N/A	N/A
Full Conference Registration Only (meals sold separately)	\$580	\$870	\$600	\$890
One-Day Conference Registration (meals sold separately) Wednesday: Registration includes Welcome Reception on Tuesday evening -OR- Thursday: Registration includes ability to purchase a ticket for Friday breakfast	\$345	\$520	\$365	\$540
Guest Conference Registration (meals sold separately) Guest registration is not available to anyone with a professional reason to attend.	\$75	\$75	\$75	\$75
MEAL FUNCTIONS	ADVANCE		ONSITE	
Wednesday Opening Breakfast - May 8	\$50		\$55	
Wednesday Luncheon - May 8	\$55		\$60	
Thursday Networking Continental Breakfast - May 9	\$40		\$45	
Thursday Luncheon - May 9	\$55		\$60	
Thursday Dinner - May 9	\$70		\$75	
Friday Breakfast - May 10	\$50		\$55	

HOTEL INFORMATION

You must be registered for the ACWA conference in order to receive hotel reservation information and conference special room rate. **Conference special rate is available February 18 - April 15**, based on availability.

HOTELS

Monterey Marriott (350 Calle Principal)
Single/Double \$226/night + taxes & fees

Portola Hotel (2 Portola Plaza)
Single/Double \$215/night* + taxes & fees

Hotel Pacific (300 Pacific Street)
Single/Double \$225/night* + taxes & fees

DEADLINE FOR HOTEL GROUP RATE IS APRIL 15, 2019

IMPORTANT DATES

For those **registering for conference prior to February 18**, hotel information will be provided via e-mail on February 18.

For those registering for conference from **February 18 to April 15**, your confirmation e-mail will include hotel reservation information and an opportunity to receive a conference special hotel rate.

QUESTIONS?

Contact us at (888) 666-2292

Registration Cancellation deadline: April 19, 2019 4:30 p.m. (PST)

Conference terms and conditions available at acwa.com in the event section.

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 1
February 12, 2019

To: Board of Directors
From: Ron L. Mitchell, Secretary-Treasurer
Subject: Acceptance of Audited Financial Statements

ACTION ITEM:

1. **Acceptance of Audited Financial Statements for Fiscal Year 2017-18** – Consideration and motion to accept the Audited Financial Statements for Fiscal Year 2017-18.

BACKGROUND:

The Finance Committee met with staff and the District's auditor, Ms. Leslie Ward of Clifton Larson Allen (CLA) on December 14, 2018 to review the draft statements for FY 2017-18 which have been provided to the Board for review. She discussed the first draft of the financial statements for FY 2017-18 and informed the Committee of the process that was used to perform the audit and said that no major weaknesses were found in the District's internal controls, which is the highest opinion an auditor can confer. Ms. Ward said that in their opinion, the financial statements present fairly, in all material respects, the financial position of the District.

Ms. Ward informed the Committee of a new GASB 75 requirement, which is a new requirement related to reporting a \$5.9 million for our retiree healthcare (OPEB) liability. This will require restating the beginning net position by a \$1.1 million reduction. Without this restatement, the District would have recognized an increase of net position for FY 2017-18 of \$471,000.

Staff provided a copy of the final draft of the report along with a one-page sheet that highlighted the changes in revenues, expenses, and other items that have had an impact on the District's net position for FY 2017-18 to you on February 1st for you to review in preparation for this meeting. Please bring that report with you to the meeting as Ms. Ward will be here to answer any questions you may have related to the statements.

Recommendation

It is staff recommendation that the Board accept the Audited Financial Statements for Fiscal Year 2017-18.

Prepared by:



Ron L. Mitchell, Secretary-Treasurer

Submitted by:



Nemesciano Ochoa, General Manager



CRESCENTA VALLEY WATER DISTRICT
REPORT ON AUDIT OF FINANCIAL STATEMENTS
For the Fiscal Years Ended June 30, 2018 and 2017



Mission Statement

The mission of the Crescenta Valley Water District is to provide quality water and wastewater services to the Crescenta Valley community in a dependable and economically responsible manner.

Board of Directors as of June 30, 2018

Name	Title	Elected/ Appointed	Current Term
James D. Bodnar	President	Elected	December 2018
Michael L. Claessens	Vice President	Elected	December 2020
Kerry D. Erickson	Director	Elected	December 2018
Kenneth R. Putnam	Director	Elected	December 2018
Judy L. Tejeda	Director	Elected	December 2020

**Nemesciano Ochoa, General Manager
Crescenta Valley Water District
2700 Foothill Boulevard
La Crescenta, California 91214
(818) 248-3925 – www.cvwd.com**

CRESCENTA VALLEY WATER DISTRICT

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Draft - Preliminary
For Discussion Purposes Only
Subject to Change
Not to be Reproduced

INTRODUCTORY SECTION

**Directors**

Kerry D. Erickson
James D. Bodnar
Michael L. Claessens
Kenneth R. Putnam
Judy L. Tejada

Officers

Nemesciano G.
Ochoa, P.E.
General Manager
Ron L. Mitchell
Secretary-Treasurer

December 14, 2018
Board of Directors
Crescenta Valley Water District

Introduction

It is our pleasure to submit the Annual Financial Report for the Crescenta Valley Water District (District) for the fiscal years ended June 30, 2018 and June 30, 2017, following guidelines set forth by the Governmental Accounting Standards Board. District staff prepared this financial report. The District is ultimately responsible for both the accuracy of the data and the completeness and the fairness of presentation, including all disclosures in this financial report. We believe that the data presented is accurate in all material respects. The report is designed in a manner that we believe necessary to enhance your understanding of the District's financial position and activities.

Generally Accepted Accounting Principles (US GAAP) require that management provide a section including a narrative introduction, an overview and an analysis to accompany the financial statements. This section is the Management's Discussion and Analysis (MD&A). This letter of transmittal is designed to complement the MD&A and should be read in conjunction with it. The District's MD&A can be found immediately after the Independent Auditors' Report.

District Structure and Leadership

The Crescenta Valley Water District is an independent special district, which operates under the authority of Division 12 of the California Water Code. The Crescenta Valley Water District has been providing services to area residents since 1950. The District is governed by a five-member Board of Directors, elected at-large from within the District's service area. The District General Manager administers the day-to-day operations of the District in accordance with policies and procedures established by the Board of Directors. The Crescenta Valley Water District employs a full-time staff of 33 employees. The District's Board of Directors' regularly scheduled meetings are on the first and third Tuesday of each month. Meetings are publicly noticed and customers are encouraged to attend.

The District is located in the Crescenta Valley area of Los Angeles County in the foothills of the San Gabriel Mountains, between the San Fernando and San Gabriel Valleys. The District provides water distribution and sewage collection within its boundaries to the unincorporated communities of La Crescenta, Montrose, and Verdugo City as well as a small portion of the City of La Canada-Flintridge. The District also serves a portion of the City of Glendale in Montrose and La Crescenta outside District boundaries.

The District serves an area of approximately 4 square miles in relatively steep terrain ranging from 1,200 feet to almost 3,000 feet above sea level. The customer base is primarily residential with some light commercial along Foothill Boulevard in La Crescenta and Honolulu Avenue in Montrose. The District currently provides water to over 8,000 accounts representing a population of approximately 33,000.

Economic Condition and Outlook

The District's administrative office is located in the community of La Crescenta, in Los Angeles County. The economic outlook for the area is expected to be stable, although the Crescenta Valley area is nearly built out. Residential growth is occurring through increased housing density in the multiple-unit zoned areas (primarily Montrose), as well as limited in-fill housing development on parcels in La Crescenta as they become available.

California's water supply continues to be a concern due to population increases and continued recovery from recent drought conditions. This concern, in addition to State-mandated reductions, has increased interest in conservation and in irrigation methods and systems. These trends are expected to shift long-term water demand toward less consumption.

Major Initiatives

The activities of the Board and staff of the District are driven by its Mission Statement: "The mission of the Crescenta Valley Water District is to provide quality water and wastewater services to the Crescenta Valley community in a dependable and economically responsible manner."

Crescenta Valley Water District works to provide a stable supply of high quality safe drinking water at a fair price to all customers of the District. In addition, the District aims to provide reliable sewer service that is collected through the District's wastewater collection system and treated through the City of Los Angeles Sanitation Department. The Board, the staff, and all employees of Crescenta Valley Water District are committed to providing its customers with high-quality, cost-effective, and environmentally sensitive customer service.

1. To supply clean, wholesome water to the community and provide water for the future;
2. To plan, construct, operate, maintain, and upgrade the water and wastewater systems facilities to adequately serve customer needs;
3. To utilize the District's financial resources in an effective, responsible, and prudent manner;
4. To provide quality customer service for District customers;
5. To inform, educate and communicate with the community on District and water issues; and
6. To review and maintain a plan to be proactive in preventative maintenance of the District's water and sewer systems.

All programs and operations of the District are developed and performed to provide the highest level of services to its customers.

Internal Control Structure

District management is responsible for the establishment and maintenance of the internal control structure that ensures that the assets of the District are protected from loss, theft or misuse. The internal control structure also ensures that adequate accounting data is compiled to allow for the preparation of financial statements in conformity with US GAAP. The District's internal control structure is designed to provide reasonable assurance that these objectives are met. The concept of reasonable assurance recognizes that 1) the cost of a control should not exceed the benefits likely to be derived; and 2) the valuation of costs and benefits requires estimates and judgments by management.

Budgetary Control

The District Board of Directors adopts an operating and capital budget every year. The budget authorizes and provides the basis for reporting and control of financial operations and accountability for the District's enterprise operations and capital projects. The budget and reporting treatment applied to the District is consistent with the accrual basis and the financial statement basis of accounting.

Investment Policy

The Board of Directors has adopted an investment policy that conforms to State law, District ordinance and resolutions, prudent money management, and the "prudent person" standards. The objectives of the Investment Policy are safety, liquidity and yield.

Water and Sewer Rates and District Revenues

It is District policy that all revenues from user charges and surcharges generated from District customers must support all District operations including capital project funding. Accordingly, water and sewer rates are reviewed annually. Water and wastewater rates are user charges imposed on customers for services and are the primary component of the District's revenue. Water and wastewater rates are composed of a commodity (usage) charge and a fixed (readiness-to-serve) charge to all residential dwelling units.

Water Conservation Programs

The District has implemented conservation management practices. District staff participates in community events and distributes materials to encourage water conservation. The District has offered the following conservation programs:

- Mandatory Water Conservation Program
- Low-Flow Retrofit Program
- Hi-Efficiency Washers Program

Audit and Financial Reporting

State Law and bond covenants require the District to obtain an annual audit of its financial statements by an independent certified public accountant. The accounting firm of CliftonLarsonAllen LLP, has conducted the audit for the District's financial statements. Their unmodified Independent Auditor Report appears in the Financial Section.

Risk Management

The District participates in a joint powers agreement with the Association of California Water Agencies Joint Powers Insurance Authority (ACWA/JPA). The District participates in the Liability, Property and Workers' Compensation program. The property program includes Fidelity Coverage, Cyber Security Coverage, and Boiler & Machinery Coverage.

Other References

More information is contained in the Management's Discussion and Analysis and the Notes to the Basic Financial Statements found in the Financial Section of the report.

Acknowledgements

Preparation of this report was accomplished by the combined efforts of District staff. We appreciate the dedicated efforts and professionalism that these staff members contribute to the District. We would also like to thank the members of the Board of Directors for their continued support in the planning and implementation of the Crescenta Valley Water District's fiscal policies.

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FINANCIAL SECTION

INDEPENDENT AUDITORS' REPORT

Board of Directors
Crescenta Valley Water District
La Crescenta, California

Report on the Financial Statements

We have audited the accompanying financial statements of the Crescenta Valley Water District (District) as of and for the years ended June 30, 2018 and 2017, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the District's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

INDEPENDENT AUDITORS' REPORT

Board of Directors
Crescenta Valley Water District
La Crescenta, California

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the District, as of June 30, 2018 and 2017 and the changes in its financial position and its cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of a Matter

Changes in Accounting Principle

During fiscal year ended June 30, 2018, the District adopted the provisions of Governmental Accounting Standards Board Statement (GASB) No. 89 *Accounting for Interest Cost Incurred before the End of a Construction Period*, and No. 75 *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*. As a result of the implementation of Statement No. 75, the District reported a restatement for the change in accounting principle (see Note 1). Our auditors' opinion was not modified with respect to the restatement.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and the required supplementary information as listed in the table of contents be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

INDEPENDENT AUDITORS' REPORT

Board of Directors
Crescenta Valley Water District
La Crescenta, California

Other Information

Our audits were conducted for the purpose of forming an opinion on the District's basic financial statements. The supplementary information as listed in the table of contents is presented for purposes of additional analysis and is not a required part of the basic financial statements. The supplementary information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audits of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the financial statements as a whole.

The introductory section has not been subjected to the auditing procedures applied in the audits of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on it.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated December 14, 2018 on our consideration of the District's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the District's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the District's internal control over financial reporting and compliance.

CliftonLarsonAllen LLP
Glendora, California
December 14, 2018

CRESCENTA VALLEY WATER DISTRICT

MANAGEMENT'S DISCUSSION AND ANALYSIS For the Fiscal Years Ended June 30, 2018 and 2017

The following Management's Discussion and Analysis (MD&A) of activities and financial performance of the Crescenta Valley Water District (District) provides an introduction to the financial statements of the District for the fiscal years ended June 30, 2018 and 2017. We encourage readers to consider the information presented here in conjunction with the transmittal letter in the Introductory Section and with the basic financial statements and related notes, which follow this section.

Financial Highlights

- The District's net position decreased 1.48%, or \$667,183 to \$44,322,769 in fiscal year 2018, primarily due to GASB Statement No. 75 implementation. The beginning net position has been decreased by \$1,139,076 to recognize the beginning balance of the net OPEB liability of \$5,668,516. In 2017, the District's net position decreased 2.40%, or \$1,104,232 to \$44,989,952, primarily due to a decrease from operations.
- The District's operating revenues increased 12.93% or \$1,645,633, in fiscal year 2018. In 2017, the District's operating revenues increased 11.55% or \$1,317,863.
- The District's operating expenses increased 3.27%, or \$450,860, in fiscal year 2018. In 2017, the District's operating expenses increased 3.00%, or \$402,116.

Required Financial Statements

This annual report consists of a series of financial statements. The Statement of Net Position, Statement of Revenues, Expenses and Changes in Net Position, and the Statement of Cash Flows provide information about the activities and performance of the District using accounting methods similar to those used by private-sector companies.

The District's statements consist of two funds, the Water Fund and the Sewer Fund. The District's records are maintained on an enterprise basis, as it is the intent of the Board of Directors that the costs of providing water and sewer to the customers of the District are financed primarily through user charges.

The Statement of Net Position includes all of the District's investments in resources (assets), deferred outflows of resources, the obligations to creditors (liabilities), and deferred inflows of resources. It also provides the basis for computing a rate of return, evaluating the capital structure of the District, and assessing the liquidity and financial flexibility of the District. All of the current year's revenues and expenses are accounted for in the Statement of Revenues, Expenses and Changes in Net Position. This statement measures the success of the District's operations over the past year and can be used to determine if the District has successfully recovered all of its costs through its rates and other charges. This statement can also be used to evaluate sustainability and creditworthiness. The final required financial statement is the Statement of Cash Flows, which provides information about the District's cash receipts and cash payments during the reporting period. The Statement of Cash Flows reports cash receipts, cash payments, and net changes in cash resulting from operations, investing,

CRESCENTA VALLEY WATER DISTRICT
MANAGEMENT'S DISCUSSION AND ANALYSIS
For the Fiscal Years Ended June 30, 2018 and 2017

non-capital financing, and capital and related financing activities, as well as providing answers to such questions as the source of cash, the use of it, and the change in cash balance during the reporting period.

Financial Analysis of the District

One of the most important questions asked about the District's finances is, "Is the District better off or worse off as a result of this year's activities?" The Statement of Net Position and the Statement of Revenues, Expenses, and Changes in Net Position report information about the District in a way that helps answer this question. These statements include all assets, deferred outflows, liabilities, and deferred inflows using the accrual basis of accounting, which is similar to the accounting used by most private-sector companies. All of the current year's revenues and expenses are taken into account regardless of when the cash is received or paid.

These two statements report the District's net position and changes in them. One can think of the District's net position (the difference between assets and deferred outflows, and liabilities and deferred inflows), as one way to measure the District's financial health, or financial position. Over time, increases or decreases in the District's net position is one indicator of whether its financial health is improving or deteriorating. However, one will need to consider other non-financial factors such as changes in economic conditions, population growth, zoning and new or changed government legislation, such as changes in Federal and State water quality standards.

Notes to the Basic Financial Statements

The notes provide additional information that is essential to a full understanding of the data provided in the basic financial statements. The notes to the basic financial statements can be found on pages beginning on page 18.

CRESCENTA VALLEY WATER DISTRICT
MANAGEMENT'S DISCUSSION AND ANALYSIS
For the Fiscal Years Ended June 30, 2018 and 2017

Condensed Statements of Net Position

As noted earlier, net position may serve over time as a useful indicator of a government's financial position. In the case of the District, assets and deferred outflows of the District exceeded liabilities and deferred inflows by \$44,322,769 and \$44,989,952 as of June 30, 2018 and 2017, respectively.

Condensed Statement of Net Position

	2018	2017	Change	2016	Change
Assets:					
Current assets	\$ 3,488,857	\$ 5,200,496	\$ (1,711,639)	\$ 12,869,933	\$ (7,669,437)
Non-Current Assets	11,170,682	12,163,725	(993,043)	5,624,931	6,538,794
Capital assets, net	47,912,488	45,701,698	2,210,790	45,120,528	581,170
Total assets	<u>62,572,027</u>	<u>63,065,919</u>	<u>(493,892)</u>	<u>63,615,392</u>	<u>(549,473)</u>
Deferred outflows of resources:	<u>1,713,370</u>	<u>965,543</u>	<u>747,827</u>	<u>327,407</u>	<u>638,136</u>
Liabilities:					
Current liabilities	1,468,628	2,130,001	(661,373)	1,869,198	260,803
Non-current liabilities	18,078,676	16,537,336	1,541,340	15,429,452	1,107,884
Total liabilities	<u>19,547,304</u>	<u>18,667,337</u>	<u>879,967</u>	<u>17,298,650</u>	<u>1,368,687</u>
Deferred inflows of resources:	<u>415,324</u>	<u>374,173</u>	<u>41,151</u>	<u>549,965</u>	<u>(175,792)</u>
Net position:					
Net investment in capital assets	39,915,268	36,753,114	3,162,154	35,874,859	878,255
Restricted	-	617,361	(617,361)	617,109	252
Unrestricted	<u>4,407,501</u>	<u>7,619,477</u>	<u>(3,211,976)</u>	<u>9,602,216</u>	<u>(1,982,739)</u>
	<u>\$ 44,322,769</u>	<u>\$ 44,989,952</u>	<u>\$ (667,183)</u>	<u>\$ 46,094,184</u>	<u>\$ (1,104,232)</u>

By far, the largest portion of the District's net position (90.06% and 81.69% as of June 30, 2018 and 2017, respectively) reflects the District's investment in capital assets (net of accumulated depreciation) less any related debt used to acquire those assets that is still outstanding. The District uses these capital assets to provide services to customers within the District's service area; consequently, these assets are not available for future spending. See note 10 for further information.

At the end of fiscal year 2018 and 2017, the District showed a positive balance in its unrestricted net position of \$4,407,501 and \$7,619,477, respectively. See note 10 for the amount of unrestricted net position that may be utilized in future years.

CRESCENTA VALLEY WATER DISTRICT
MANAGEMENT'S DISCUSSION AND ANALYSIS
For the Fiscal Years Ended June 30, 2018 and 2017

Condensed Statements of Revenues, Expenses and Changes in Net Position

	2018	2017	Change	2016	Change
Revenues:					
Operating revenues	\$ 14,371,576	\$ 12,725,943	\$ 1,645,633	\$ 11,408,080	\$ 1,317,863
Non-operating revenues	87,530	33,325	54,205	670,584	(637,259)
Total revenues	<u>14,459,106</u>	<u>12,759,268</u>	<u>1,699,838</u>	<u>12,078,664</u>	<u>680,604</u>
Expenses:					
Operating expenses	14,235,818	13,784,958	450,860	13,382,842	402,116
Non-operating expenses	394,445	549,887	(155,442)	368,022	181,865
Total Expenses	<u>14,630,263</u>	<u>14,334,845</u>	<u>295,418</u>	<u>13,750,864</u>	<u>583,981</u>
Net loss before capital contributions	<u>(171,157)</u>	<u>(1,575,577)</u>	<u>1,404,420</u>	<u>(1,672,200)</u>	<u>96,623</u>
Capital Contributions	<u>643,050</u>	<u>471,345</u>	<u>171,705</u>	<u>810,792</u>	<u>(339,447)</u>
Change in net position	<u>471,893</u>	<u>(1,104,232)</u>	<u>1,576,125</u>	<u>(861,408)</u>	<u>(242,824)</u>
Net Position beginning of year before restatement	44,989,952	46,094,184	(1,104,232)	46,955,592	(861,408)
Cumulative effect of change in accounting principle	<u>(1,139,076)</u>	<u>-</u>	<u>(1,139,076)</u>	<u>-</u>	<u>-</u>
Net Position beginning of year after restatement	<u>43,850,876</u>	<u>46,094,184</u>	<u>(2,243,308)</u>	<u>46,955,592</u>	<u>(861,408)</u>
Net Position, ending of year	<u>\$ 44,322,769</u>	<u>\$ 44,989,952</u>	<u>\$ (667,183)</u>	<u>\$ 46,094,184</u>	<u>\$ (1,104,232)</u>

The Statements of Revenues, Expenses and Changes in Net Position show how the District's net position changed during the reported fiscal years. In the case of the District, net position in fiscal year 2018 decreased 1.48%, or \$667,183 to \$44,322,769 due to a decrease from operations and implementing GASB Statement No.75. In fiscal year 2017, net position decreased 2.40%, or \$1,104,232 to \$44,989,952, due to a decrease from operations.

A closer examination of the sources of changes in net position reveals that:

In 2018, the District's total revenues increased by 13.32%, or \$1,699,838. This was primarily due to a continued increase in water demand that translated to increased water consumption sales by \$979,316. As in 2017, continued economic growth in 2018 furthered development activity, which accounts for the majority of the \$408,886 increase in water operations from other charges.

In 2017, the District's total revenues increased by 5.63%, or \$680,604. This was primarily due to an increase in water demand with the tapering off of the recent multi-year drought, translating to increased water consumption sales by \$797,797. Continued economic growth also contributed to increased development activity, which accounts for the majority of the \$331,494 increase in water operations from other charges. Total revenue was tempered in part by a decrease of \$107,837 in wastewater operations revenue and a decrease in investment earnings.

CRESCENTA VALLEY WATER DISTRICT

MANAGEMENT'S DISCUSSION AND ANALYSIS For the Fiscal Years Ended June 30, 2018 and 2017

Statements of Revenues, Expenses and Changes in Net Position, continued

In 2018, the District's total expenses increased by \$295,418, or 2.06%. The was driven in large part by the increase in water demand which in turn led to increased water supply costs in the amount of \$255,046. Other increases were attributable to general inflationary pressures, particularly the continuously increasing cost of health care premiums. Wastewater system and collection expenses increased by \$185,415.

In 2017, the District's total expenses increased by \$583,981, or 4.25%. This was driven in large part by the increase in water demand which in turn led to increased water supply costs in the amount of \$645,618. Other increases were attributable to general inflationary pressures, particularly the cost of health care premiums. Wastewater system and collection expenses decreased by \$505,853.

In 2018, non-operating expenses decreased by 28.27%, or \$155,442, primarily due to a decrease in interest expense offset by costs incurred in connection with the bond refunding.

In 2017, non-operating expenses increased by 49.42%, or \$181,865, primarily due to a decrease in investment earnings.

In 2018, capital contributions increased by 36.43%, or \$171,705, primarily due to a timing difference between when payments from capital grants were expected and received.

In 2017, capital contributions decreased by 41.87%, or \$339,447, primarily due to a timing difference between when payments from capital grants were expected and received.

Capital Asset Administration

At the end of fiscal years 2018 and 2017, the District's capital assets amounted to \$47,912,488 and \$45,701,698, respectively, (net of accumulated depreciation). This investment in capital assets includes land, transmission and distribution systems, collection systems, buildings and structures, equipment, and vehicles, etc. Major capital assets additions during the year included upgrades to the District's water operations production and transmission and distribution systems.

Changes in capital asset amounts for 2018 are as follows:

	Balance 2017	Additions/ Transfers	Deletions / Transfers	Balance 2018
Capital assets:				
Non-depreciable assets	\$ 5,218,662	\$ 3,759,044	\$ (1,633,077)	\$ 7,344,629
Depreciable assets	81,955,254	1,762,132	-	83,717,386
Accumulated depreciation	(41,472,218)	(1,677,309)	-	(43,149,527)
Total capital assets, net	<u>\$ 45,701,698</u>	<u>\$ 3,843,867</u>	<u>\$ (1,633,077)</u>	<u>\$ 47,912,488</u>

CRESCENTA VALLEY WATER DISTRICT

MANAGEMENT'S DISCUSSION AND ANALYSIS For the Fiscal Years Ended June 30, 2018 and 2017

Capital Asset Administration, continued

Changes in capital asset amounts for 2017 are as follows:

	Balance 2016	Additions/ Transfers	Deletions / Transfers	Balance 2017
Capital assets:				
Non-depreciable assets	\$ 3,353,249	\$ 1,865,413	\$ -	\$ 5,218,662
Depreciable assets	81,552,260	422,673	(19,679)	81,955,254
Accumulated depreciation	(39,784,981)	(1,706,916)	19,679	(41,472,218)
Total capital assets, net	<u>\$ 45,120,528</u>	<u>\$ 581,170</u>	<u>\$ -</u>	<u>\$ 45,701,698</u>

(See note 4 for further discussion)

Debt Administration

Changes in long-term debt amounts at 2018 are as follows:

	Balance 2017	Additions/ Transfers	Payments/ Discount Amortization	Balance 2018	Amount due within one year
Long-term debt:					
Total bonds payable	\$ 7,925,010	\$ -	\$ (7,925,010)	\$ -	\$ -
Total loans payable	1,023,574	7,668,000	(422,012)	8,269,562	353,012
Total long-term debt	<u>\$ 8,948,584</u>	<u>\$ 7,668,000</u>	<u>\$ (8,347,022)</u>	<u>\$ 8,269,562</u>	<u>\$ 353,012</u>

Changes in long-term debt amounts at 2017 are as follows:

	Balance 2016	Additions/ Transfers	Payments/ Discount Amortization	Balance 2017	Amount due within one year
Long-term debt:					
Total bonds payable	\$ 8,171,083	\$ -	\$ (246,073)	\$ 7,925,010	\$ 265,000
Total loans payable	1,074,586	-	(51,012)	1,023,574	51,012
Total long-term debt	<u>\$ 9,245,669</u>	<u>\$ -</u>	<u>\$ (297,085)</u>	<u>\$ 8,948,584</u>	<u>\$ 316,012</u>

(See note 6 for further discussion)

Conditions Affecting Current Financial Position

Management is unaware of any conditions at June 30, 2018, that would have a significant impact on the District's financial position, net position, or operating results in terms of past, present and future.

CRESCENTA VALLEY WATER DISTRICT

MANAGEMENT'S DISCUSSION AND ANALYSIS For the Fiscal Years Ended June 30, 2018 and 2017

Requests for Information

This financial report is designed to provide the District's funding sources, customers, stakeholders and other interested parties with an overview of the District's financial operations and financial condition. Should the reader have questions regarding the information included in this report or wish to request additional financial information, please contact Nemesciano Ochoa, General Manager of Crescenta Valley Water District, at 2700 Foothill Blvd., La Crescenta, California, 91214.

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BASIC FINANCIAL STATEMENTS

CRESCENTA VALLEY WATER DISTRICT

STATEMENTS OF NET POSITION June 30, 2018 and 2017

	2018	2017
Assets		
Current Assets:		
Cash and cash equivalents (note 2)	\$ 681,929	\$ 2,537,868
Accrued interest receivable	78,311	77,447
Accounts receivable- water and wastewater	2,139,989	2,175,771
Accounts receivable- other	4,127	8,269
Material and supplies inventory	536,356	356,671
Prepaid expenses and other deposits	48,145	44,470
Total Current Assets	<u>3,488,857</u>	<u>5,200,496</u>
Non-current assets:		
Investments (note 2)	11,170,682	11,546,364
Investments- restricted (note 2)	-	617,361
Capital assets- not being depreciated (note 4)	7,344,629	5,218,662
Depreciable capital assets (note 4)	40,567,859	40,483,036
Total Non-Current Assets	<u>59,083,170</u>	<u>57,865,423</u>
Total Assets	<u>62,572,027</u>	<u>63,065,919</u>
Deferred outflows of resources:		
Deferred outflows on bond refunding (note 6)	272,342	-
Deferred other post-employment benefits outflows (note 7)	215,936	-
Deferred pension outflows (note 8)	1,225,092	965,543
Total Deferred Outflows of Resources	<u>1,713,370</u>	<u>965,543</u>

Continued on next page

See independent auditors' report and accompanying notes to the financial statements.

CRESCENTA VALLEY WATER DISTRICT

STATEMENTS OF NET POSITION June 30, 2018 and 2017

	2018	2017
Liabilities		
Current liabilities:		
Accounts payable and accrued expenses	\$ 692,245	\$ 1,173,800
Accrued wages and related payables	112,802	154,905
Customer deposits	186,193	374,202
Accrued interest expense	48,771	29,070
Long-term liabilities- due within one year:		
Compensated absences (note 5)	75,605	82,012
Certificates of participation (note 6)	-	265,000
Loan payable (note 6)	353,012	51,012
Total Current Liabilities	<u>1,468,628</u>	<u>2,130,001</u>
Non-current liabilities:		
Long-term liabilities-due in more than one year:		
Compensated absences (note 5)	226,816	246,035
Certificates of participation (note 6)	-	7,660,010
Loan payable (note 6)	7,916,550	972,562
Other postemployment benefits obligation (note 7)	5,957,086	4,294,484
Net pension liability (note 8)	3,978,224	3,364,245
Total Non-current Liabilities	<u>18,078,676</u>	<u>16,537,336</u>
Total Liabilities	<u>19,547,304</u>	<u>18,667,337</u>
Deferred inflows of resources:		
Deferred other postemployment benefits inflows (note 7)	16,959	-
Deferred pension inflows (note 8)	398,365	374,173
Total Deferred Inflows of Resources	<u>415,324</u>	<u>374,173</u>
Net position: (note 10)		
Net investment in capital assets	39,915,268	36,753,114
Restricted for debt service	-	617,361
Unrestricted	4,407,501	7,619,477
Total Net Position	<u>\$ 44,322,769</u>	<u>\$ 44,989,952</u>

See independent auditors' report and accompanying notes to the financial statements.

CRESCENTA VALLEY WATER DISTRICT

STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION For the Fiscal Years Ended June 30, 2018 and 2017

	2018	2017
Operating revenues:		
Water operations- consumption sales	\$ 7,519,558	\$ 6,540,242
Water operations- service charge	2,637,222	2,245,629
Water operations- other charges	1,180,936	772,050
Wastewater operations- user and standby charges	3,033,860	3,168,022
Total operating revenues	<u>14,371,576</u>	<u>12,725,943</u>
Operating expenses:		
Source of supply	3,404,291	3,149,245
Plant operations	2,189,387	2,175,501
Distribution system	1,071,502	1,127,201
City of Los Angeles wastewater system	1,097,781	950,537
Collection system	251,013	212,842
General and administrative expenses	4,545,133	4,462,717
Total operating expenses before depreciation	<u>12,559,107</u>	<u>12,078,043</u>
Operating income before depreciation	1,812,469	647,900
Depreciation expense	(1,676,711)	(1,706,915)
Operating (loss) gain	<u>135,758</u>	<u>(1,059,015)</u>
Non-operating revenues(expenses):		
Investment earnings (losses)	53,930	(109,432)
Gain(loss) on sale of capital assets	-	1,174
Interest expense	(220,802)	(358,188)
Rental income	33,600	32,151
Other income (expense), net	(173,643)	(82,267)
Total non-operating (loss), net	<u>(306,915)</u>	<u>(516,562)</u>
Net loss before capital contributions	<u>(171,157)</u>	<u>(1,575,577)</u>
Capital contributions:		
Capital grants- state	553,187	359,759
Capital grants- local	20,400	-
Assessments	69,463	111,586
Total capital contributions	<u>643,050</u>	<u>471,345</u>
Change in net position	<u>471,893</u>	<u>(1,104,232)</u>
Net Position, Beginning of Fiscal Year Before Restatement	44,989,952	46,094,184
Cumulative Effect of Change in Accounting Principle	(1,139,076)	-
Net Position, Beginning of Fiscal Year, Restated	<u>43,850,876</u>	<u>46,094,184</u>
Net Position, End of Fiscal Year	<u>\$ 44,322,769</u>	<u>\$ 44,989,952</u>

See independent auditors' report and accompanying notes to the financial statements.

CRESCENTA VALLEY WATER DISTRICT

STATEMENTS OF CASH FLOWS For the Fiscal Years Ended June 30, 2018 and 2017

	2018	2017
Cash flows from operating activities:		
Cash receipts from customers for water sales and services	\$ 14,223,491	\$ 12,754,613
Cash paid to employees for salaries and wages	(2,125,307)	(2,281,280)
Cash paid to vendors and suppliers for materials and services	(10,463,273)	(9,044,521)
Net cash provided by operating activities	<u>1,634,911</u>	<u>1,428,812</u>
Cash flows from capital and related financing activities:		
Acquisition and construction of capital assets	(3,887,501)	(2,288,085)
Proceeds from grant funding	573,587	359,759
Proceeds from property owner assessments	69,463	111,586
Proceeds from loan	7,668,000	-
Principal paid on long-term debt	(8,522,012)	(297,085)
Interest paid on long-term debt	(366,513)	(358,188)
Net cash used in capital and related financing activities	<u>(4,464,976)</u>	<u>(2,472,013)</u>
Cash flows from investing activities:		
Purchases of investments	(1,501,680)	(11,576,196)
Proceeds from sale of investments	2,494,723	4,542,541
Interest earnings (expenses)	(86,977)	288,147
Net cash provided (used) by investing activities	<u>906,066</u>	<u>(6,745,508)</u>
Net decrease in cash and cash equivalents	<u>(1,923,999)</u>	<u>(7,788,709)</u>
Cash and cash equivalents, beginning of year	<u>2,537,868</u>	<u>10,326,577</u>
Cash and cash equivalents, end of year	<u>\$ 613,869</u>	<u>\$ 2,537,868</u>

See independent auditors' report and accompanying notes to the financial statements.

CRESCENTA VALLEY WATER DISTRICT

STATEMENTS OF CASH FLOWS For the Fiscal Years Ended June 30, 2018 and 2017

	2018	2017
Reconciliation of operating loss to net cash provided (used) by operating activities		
Operating gain (loss)	\$ 135,758	\$ (1,059,015)
Adjustments to reconcile operating gain (loss) to net cash provided (used) by operating activities:		
Depreciation	1,676,711	1,706,915
Changes in operating assets and liabilities		
Accounts receivable-water and wastewater, net	35,782	(213,206)
Accounts receivable-local grant	-	133,270
Accounts receivable-other	4,142	(5,749)
Material and supplies inventory	(179,685)	13,780
Prepaid expenses and other assets	(3,675)	123
(Increase) in deferred outflows of resources	(475,485)	(638,136)
Accounts payable and accrued expenses	(481,555)	23,651
Accrued wages and related payables	(42,103)	110,406
Customer deposits	(188,009)	114,355
Compensated absences	(25,626)	12,963
Other post-employment benefits payable	523,526	553,022
Net pension liability	613,979	852,225
Increase (decrease) in deferred inflows of resources	41,151	(175,792)
Total adjustments	1,499,153	2,487,827
Net cash provided by operating activities	\$ 1,634,911	\$ 1,428,812

See independent auditors' report and accompanying notes to the financial statements.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 1: REPORTING ENTITY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Organization and Operations of the Reporting Entity

The Crescenta Valley Water District is an independent special district, which operates under the authority of Division 12 of the California Water Code. The Crescenta Valley Water District has been providing water and sewer service to the residents of the La Crescenta/ Montrose area since 1950. The District is governed by a five-member Board of Directors who serve overlapping four-year terms.

Basis of Accounting and Measurement Focus

The District reports its activities as an enterprise fund, which is used to account for operations that are financed and operated in a manner similar to a private business enterprise where the intent of the District is that the costs of providing water to its service areas on a continuing basis be financed or recovered primarily through user charges (water sales), capital grants and similar funding. Revenues and expenses are recognized on the full accrual basis of accounting. Revenues are recognized in the accounting period in which they are earned and expenses are recognized in the period incurred, regardless of when the related cash flows take place.

Operating revenues and expenses, such as water sales and water deliveries result from exchange transactions associated with the principal activity of the District. Exchange transactions are those in which each party receives and gives up essentially equal values. Management, administration and depreciation expenses are also considered operating expenses. Other revenues and expense not included in the above categories are reported as non-operating revenues and expenses.

The District recognizes revenue from water and sewer service charges based on cycle billings performed bi-monthly. The District accrues revenues with respect to water and sewer service sold but not billed at the end of a fiscal period.

Financial Reporting

The District's basic financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America (GAAP), as applied to enterprise funds. The Governmental Accounting Standards Board (GASB) is the accepted standard-setting body for establishing governmental accounting and financial reporting principles. The District solely operates as a special-purpose government which means it is only engaged in business-type activities; accordingly, activities are reported in the District's proprietary fund.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 1: REPORTING ENTITY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Cash and Cash Equivalents

Substantially all of the District's cash is invested in interest bearing accounts. The District considers all highly liquid investments with a maturity of three months or less at the time of purchase to be cash equivalents.

Investments and Investment Policy

The District has adopted an investment policy directing the Director of Finance to deposit funds in financial institutions. Changes in fair value that occur during a fiscal year are recognized as investment income reported for that fiscal year. Investment income includes interest earnings, changes in fair value, and any gains or losses realized upon the liquidation or sale of investments.

Fair Value Measurements

The District categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on valuation inputs used to measure the fair value of the asset, as follows:

- **Level 1** – This valuation level is based on quoted prices in active markets for identical assets.
- **Level 2** – This valuation level is based on directly observable and indirectly observable inputs. These inputs are derived principally from or corroborated by observable market data through correlation or market-corroborated inputs. The concept of market-corroborated inputs incorporates observable market data such as interest rates and yield curves that are observable at commonly quoted intervals.
- **Level 3** – This valuation level is based on unobservable inputs where assumptions are made based on factors such as prepayment rates, probability of defaults, loss severity and other assumptions that are internally generated and cannot be observed in the market.

Restricted Assets

Amounts shown as restricted assets are to be used for specified purposes, such as servicing general obligation bond debt and the construction of capital assets. Such assets have been restricted by bond indenture, law or contractual obligations. As of June 30, 2018, the District had no restricted assets.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 1: REPORTING ENTITY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Accounts Receivable and Allowance for Uncollectible Accounts

The District extends credit to customers in the normal course of operations. When Management deems a customer account uncollectable, the District uses the direct write off method for recording the bad debt. Management believes the bad debt recorded under this method approximates the amount that would be recorded if the District used the allowance method.

Inventory

Inventory consists primarily of materials used in construction and maintenance of the water and sewer system and is stated at cost using the average-cost method.

Prepays

Certain payments to vendors reflects costs or deposits applicable to future accounting periods and are recorded as prepaid items in the basic financial statements.

Capital Assets

Capital assets acquired and/or constructed are capitalized at historical cost. District policy has set the capitalization threshold for reporting capital assets at \$5,000. Contributed assets are recorded at acquisition cost at the date of contribution. Upon retirement or other disposition of capital assets, the cost and related accumulated depreciation are removed from the respective balances and any gains or losses are recognized. Depreciation is recorded on a straight-line basis over the estimated useful lives of the assets as follows:

- | | |
|--------------------------|----------------|
| • Sewer facilities | 40 to 50 years |
| • Water facilities | 50 years |
| • Buildings | 5 to 10 years |
| • Joint-use-facilities | 40 to 50 years |
| • Meters | 5 to 15 years |
| • Office equipment | 3 to 15 years |
| • Maintenance facilities | 5 to 15 years |

Deferred Outflows of Resources

Pension Plan

Deferred outflows of resources represent a consumption of net position that applies to a future period and thus, will not be recognized as an outflow of resources (expense/expenditure) until then. The deferred outflows of resources related to the net pension obligation that resulted from

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 1: REPORTING ENTITY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

District contributions to employee pension plans subsequent to the measurement date of the actuarial valuations for the pension plans, the difference between actual and expected experience, the difference between the estimated and actual return on pension plan investments and changes proportion and assumptions. The deferred outflows related to the net pension obligation will be deferred and amortized as detailed in Note 8 to the financial statements.

Other Postemployment Benefits Other than Pensions (OPEB)

The District also recorded deferred outflows of resources related to its (OPEB) obligation that resulted from District contributions to the plan subsequent to the measurement date of the actuarial valuations for the healthcare plan and to differences between expected and actual plan experience.

Deferred Charge on Refunding

A deferred charge on refunding results from the difference in the carrying value of refunded debt and its reacquisition price. This amount is deferred and amortized over the shorter of the life of the refunded or refunding debt.

Compensated Absences

The District's policy is to permit employees to accumulate earned vacation and sick leave according to the number of years of service with the District. The liability for vested vacation and sick leave is recorded as an expense when earned and become vested, in accordance with District policy.

Postemployment Benefits Other than Pensions (OPEB)

The District participate in an Agent Multiple-Employer defined benefit postemployment healthcare plan. During 2018, the District adopted new accounting guidance GASB Statement No. 75, Accounting and Financial Reporting for Post-Employment Benefits Other than Pensions (GASB No. 75). For purposes of measuring the net OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB and OPEB expense information about the fiduciary net position of the District Retiree Benefits Plan (the Plan) and additions to/deductions from the Plan's fiduciary net position have been determined on the same basis as they are reported by the Plan. For this purpose the Plan recognizes benefit payments when due and payable in accordance with the benefit terms.

Net Pension Obligation

For purposes of measuring the net pension liability and deferred outflows/inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS

June 30, 2018 and 2017

NOTE 1: REPORTING ENTITY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

District's California Public Employees' Retirement System (CalPERS) plans (Plans) and addition to/deduction from the Plans' fiduciary net position have been determined on the same basis as they are reported by CalPERS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

Deferred Inflows of Resources

The statement of net position and the governmental funds balance sheet will sometimes report a separate section for deferred inflows of resources. This financial statement element represents an acquisition of resources applicable to future periods and therefore will not be recognized as an inflow of resources (revenue) until that time. The deferred inflows of resources related to pensions results from the difference between the estimated and actual return on pension plan investments, the effect of changes in proportion and changes in assumptions, and the difference between expected and actual experience. These amounts are deferred and amortized as detailed in Note 8 to the financial statements.

The deferred inflows of resources related to OPEB result from the differences between the expected and actual plan experience.

Net Position

The District follows the financial reporting requirements of the GASB and reports net position under the following classifications:

- *Net Investment in Capital Assets*– This component of net position consists of capital assets, net of accumulated depreciation, and reduced by any debt outstanding against the acquisition, construction, or improvement of those assets. Deferred outflows of resources and deferred inflows of resources that are attributable to the acquisition, construction, or improvement of those assets or related debt is included in this component of net position
- *Restricted Component of Net Position* – This component of net position consists of assets that have restrictions placed upon their use by external constraints imposed either by creditors (debt covenants), grantors, contributors, or laws and regulations of other governments or constraints imposed by law through enabling legislation.
- *Unrestricted Component of Net Position* – This component of net position is the net amount of the assets, deferred outflows of resources, liabilities, and deferred inflows of resources that are not included in the determination of the net investment in capital assets or restricted component of net position.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 1: REPORTING ENTITY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Deposit Connection Fees

Connection fees are collected by the District to cover the cost of service connections within the District.

Water and Sewer Service Charges

The District recognizes water and sewer services charges based on cycle billings rendered to the customers on a bi-monthly basis.

Capital Contributions

Capital contributions represent cash and capital asset additions contributed to the District by property owners or real estate developers desiring services that require capital expenditures or capacity commitment.

Budgetary Policies

The District adopts a one year non-appropriated budget for planning, control, and evaluation purposes. Budgetary control and evaluation are affected by comparisons of actual revenues and expenses with planned revenues and expenses for the period. Encumbrance accounting is not used to account for commitments related to unperformed contracts for construction and services.

Prior Year Reclassifications

Certain prior year amounts have been reclassified to conform to current year presentation.

Use of Estimates

The preparation of the basic financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported changes in net position during the reporting period.

Change in Accounting Principles

The beginning net position of the financial statements has been decreased by \$1,139,076 to recognize the beginning balance of the net OPEB liability of \$5,668,516 resulting from implementation of GASB Statement No. 75, resulting in this cumulative effect of change in

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 1: REPORTING ENTITY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

accounting principle. The comparative information presented for the fiscal year ended June 30, 2017 was not restated under GASB statement No. 75 because it was not practical to restate.

In 2017-18, the District also implemented GASB No. 89 which requires interest cost incurred before the end of the construction period to be recognized as an expense in the period in which the cost is incurred. Therefore, there is no capitalized interest for the year ended June 30, 2018.

NOTE 2: CASH AND INVESTMENTS

Cash and investments as of June 30, are classified in the Statement of Net Position as follows:

	2018	2017
Cash and cash equivalents	\$ 681,929	\$ 2,537,868
Investments	11,170,682	11,546,364
Investments- restricted	-	617,361
Total cash and investments	<u>\$ 11,852,611</u>	<u>\$ 14,701,593</u>

Cash and investments as of June 30, consist of the following:

	2018	2017
Cash on hand	\$ 800	\$ 800
Deposits with financial institutions	49,845	904,028
Investments	<u>11,801,966</u>	<u>13,796,765</u>
Total cash and investments	<u>\$ 11,852,611</u>	<u>\$ 14,701,593</u>

Custodial Credit Risk

Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The custodial credit risk for *investments* is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. With respect to investments, custodial credit risk generally applies only to direct investments in marketable securities. Custodial credit risk does not apply to a local government's indirect investment in securities through the use of mutual funds or government investment pools (such as LAIF).

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 2: CASH AND INVESTMENTS

The California Government Code and the District's investment policy do not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits or investments, other than the following provision for deposits: The California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The market value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. California law also allows financial institutions to secure District deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits. Of the bank balances, up to \$250,000 is federally insured and the remaining balance is collateralized in accordance with the Code; however, the collateralized securities are not held in the District's name.

Investment in State Investment Pool

The District is a voluntary participant in the Local District Investment Fund (LAIF) that is regulated by the California Government Code under the oversight of the Treasurer of the State of California. The fair value of the District's investment in this pool is reported in the accompanying financial statements at amounts based upon the District's pro-rata share of the fair value provided by LAIF for the entire LAIF portfolio (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on an amortized cost basis.

The District's deposit and withdrawal restrictions and limitations are as follows:

- Same day transaction processing occurs for orders received before 10:00 a.m.
- Next day transactions processing occurs for orders received after 10:00 a.m.
- Maximum limit of 15 transactions (combination of deposits and withdrawals) per month.
- Minimum transaction amount requirement of \$5,000, in increments of a \$1,000 dollars.
- Withdrawals of \$10,000,000 or more require 24 hours advance.
- Prior to funds transfer, an authorized person must call LAIF to do a verbal transaction.

Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. One of the ways that the District manages its exposure to interest rate risk is by purchasing a combination of shorter term and longer term investments and by timing cash flows from maturities so that a portion of the portfolio matures or comes close to maturity evenly over time as necessary to provide requirements for cash flow and liquidity needed for operations. Information about the sensitivity

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 2: CASH AND INVESTMENTS

of the fair values of the District's investments to market interest rate fluctuations is provided by the following table that shows the distribution of the District's investments by maturity date:

Maturities of investments at June 30, 2018 were as follows:

Investment Type	Total	Remaining Maturity (in Months)			
		12 Months	13 to 24	25-60	61-120
		Or less	Months	Months	Months
U.S. Treasury Notes	\$ 5,151,990	\$ -	\$ -	\$ 2,407,800	\$ 2,744,190
Federal Farm Credit Bank Bonds	6,018,692	-	1,728,032	1,082,270	3,208,390
Local Agency Investment Funds	631,284	631,284	-	-	-
Total	<u>\$ 11,801,966</u>	<u>\$ 631,284</u>	<u>\$ 1,728,032</u>	<u>\$ 3,490,070</u>	<u>\$ 5,952,580</u>

Maturities of investments at June 30, 2017 were as follows:

Investment Type	Total	Remaining Maturity (in Months)			
		12 Months	13 to 24	25-60	61-120
		Or less	Months	Months	Months
U.S. Treasury Notes	\$ 3,818,840	\$ -	\$ -	\$ 974,690	\$ 2,844,150
Federal Farm Credit Bank Bonds	7,727,525	499,660	-	2,887,245	4,340,620
Local Agency Investment Funds	2,108,151	2,108,151	-	-	-
Money Market Funds	142,249	142,249	-	-	-
Total	<u>\$ 13,796,765</u>	<u>\$ 2,750,060</u>	<u>\$ -</u>	<u>\$ 3,861,935</u>	<u>\$ 7,184,770</u>

Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. Presented below is the minimum rating required by (where applicable) the California Government Code, the District's investment policy, or debt agreements, and the actual rating as of year-end for each investment type.

Credit rating of investments as of June 30, 2018, were as follows:

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 2: CASH AND INVESTMENTS

Investment Type	Total	Minimum Legal Rating	Rating as of Year End		
			AAA	AA+	Not Rated
U.S. Treasury Notes	\$ 5,151,990	A	\$ -	\$ 5,151,990	\$ -
Federal Farm Credit Bank Bonds	6,018,692	A	-	6,018,692	-
Local Agency Investment Funds	631,284	N/A	-	-	631,284
Total	<u>\$ 11,801,966</u>		<u>\$ -</u>	<u>\$ 11,170,682</u>	<u>\$ 631,284</u>

Credit rating of investments as of June 30, 2017, were as follows:

Investment Type	Total	Minimum Legal Rating	Rating as of Year End		
			AAA	AA+	Not Rated
U.S. Treasury Notes	\$ 3,818,840	A	\$ -	\$ 3,818,840	\$ -
Federal Farm Credit Bank Bonds	7,727,525	A	-	7,727,525	-
Local Agency Investment Funds	2,108,151	N/A	-	-	2,108,151
Money Market Funds	142,249	AAA	142,249	-	-
Total	<u>\$ 13,796,765</u>		<u>\$ 142,249</u>	<u>\$ 11,546,365</u>	<u>\$ 2,108,151</u>

Concentration of Credit Risk

The investment policy of the District contains no limitations on the amount that can be invested in any one issuer beyond that stipulated by the California Government Code.

Fair Value Measurements

Investments measured at fair value on a recurring and non-recurring basis, are as follows:
Investments at June 30, 2018:

Investment Type	Total	Fair Value Measurements		
		(Level 1)	(Level 2)	(Level 3)
Government sponsored entities securities	\$ 5,151,990	\$ -	\$ 5,151,990	\$ -
U.S. Treasury notes	6,018,692	6,018,692	-	-
Total investments measured at fair value	11,170,682	<u>\$ 6,018,692</u>	<u>\$ 5,151,990</u>	<u>\$ -</u>
Investments measured at amortized cost:				
Local Agency Investment Fund (LAIF)	631,284			
Total	<u>\$ 11,801,966</u>			

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS June 30, 2018 and 2017

NOTE 2: CASH AND INVESTMENTS

Investments at June 30, 2017:

Investment Type	Total	Fair Value Measurements		
		(Level 1)	(Level 2)	(Level 3)
Government sponsored entities securities	\$ 3,818,840	\$ -	\$ 3,818,840	\$ -
U.S. Treasury notes	7,727,525	7,727,525	-	-
Money Market Funds	142,249	142,249	-	-
Total investments measured at fair value	11,688,614	\$ 7,869,774	\$ 3,818,840	\$ -
Investments measured at amortized cost:				
Local Agency Investment Fund (LAIF)	2,108,151			
Total	\$ 13,796,765			

NOTE 3: ACCOUNTS RECEIVABLE-WATER AND WASTEWATER, NET

Accounts receivable- water and wastewater, net as of June 30, are as follows:

	2018	2017
Account receivable- water and wastewater	\$ 2,145,502	\$ 2,181,284
Allowance for doubtful accounts	(5,513)	(5,513)
Account receivable- water and wastewater, net	\$ 2,139,989	\$ 2,175,771

NOTE 4: CAPITAL ASSETS

Capital Assets at June 30, 2018, are summarized as follows:

	Balance 2017	Additions/ Transfers	Deletions / Transfers	Balance 2018
Non-depreciable assets:				
Water operations	\$ 5,197,623	\$ 3,723,639	\$ (1,615,633)	\$ 7,305,629
Wastewater operations	21,039	35,405	(17,444)	39,000
Total non-depreciable assets	5,218,662	3,759,044	(1,633,077)	7,344,629
Depreciable assets, net:				
Water operations	22,404,516	639,589	-	23,044,105
Wastewater operations	18,078,520	(554,766)	-	17,523,754
Total depreciable capital assets, net	40,483,036	84,823	-	40,567,859
Total Capital Assets, Net	\$ 45,701,698	\$ 3,843,867	\$ (1,633,077)	\$ 47,912,488

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS June 30, 2018 and 2017

NOTE 4: CAPITAL ASSETS

Changes for water operations capital assets in 2018 were as follows:

	Balance 2017	Additions/ Transfers	Deletions / Transfers	Balance 2018
Non-depreciable assets:				
Land	\$ 1,158,526	\$ -	\$ -	\$ 1,158,526
Construction-in progress	4,039,097	3,723,639	(1,615,633)	6,147,103
Total non-depreciable assets	<u>\$ 5,197,623</u>	<u>\$ 3,723,639</u>	<u>\$ (1,615,633)</u>	<u>\$ 7,305,629</u>
Depreciable assets:				
Production equipment	10,128,049	242,046	-	10,370,095
Distribution equipment	29,901,567	1,449,596	-	31,351,163
Groundwater reclamation plant	2,642,127	-	-	2,642,127
Autos and trucks	939,036	53,045	-	992,081
Office equipment	630,107	-	-	630,107
Office building	560,994	-	-	560,994
Total depreciable assets	<u>44,801,880</u>	<u>1,744,687</u>	<u>-</u>	<u>46,546,567</u>
Accumulated depreciation:				
Production equipment	(4,118,028)	(316,073)	-	(4,434,101)
Distribution equipment	(14,372,516)	(644,422)	-	(15,016,938)
Groundwater reclamation plant	(2,280,936)	(20,187)	-	(2,301,123)
Autos and trucks	(822,611)	(79,928)	-	(902,539)
Office equipment	(554,544)	(33,123)	-	(587,667)
Office building	(248,729)	(11,365)	-	(260,094)
Total accumulated depreciation	<u>(22,397,364)</u>	<u>(1,105,098)</u>	<u>-</u>	<u>(23,502,462)</u>
Total depreciable assets, net	<u>22,404,516</u>	<u>639,589</u>	<u>-</u>	<u>23,044,105</u>
Total capital assets, net	<u>\$ 27,602,139</u>	<u>\$ 4,363,228</u>	<u>\$ (1,615,633)</u>	<u>\$ 30,349,734</u>

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS

June 30, 2018 and 2017

NOTE 4: CAPITAL ASSETS

Changes for wastewater operations capital assets in 2018 were as follows:

	Balance 2017	Additions/ Transfers	Deletions / Transfers	Balance 2018
Non-depreciable assets:				
Construction-in progress	\$ 21,039	\$ 35,405	\$ (17,444)	\$ 39,000
Total non-depreciable assets	<u>21,039</u>	<u>35,405</u>	<u>(17,444)</u>	<u>39,000</u>
Depreciable assets:				
Wastewater collection system				
Interceptor	4,988,812	-	-	4,988,812
Unit 1	11,404,199	17,445	-	11,421,644
Unit 2	19,891,101	-	-	19,891,101
Tools and lab equipment	30,381	-	-	30,381
Autos and trucks	735,406	-	-	735,406
Safety equipment	6,569	-	-	6,569
Booster building	66,465	-	-	66,465
Office equipment	30,441	-	-	30,441
Total depreciable assets	<u>37,153,374</u>	<u>17,445</u>	<u>-</u>	<u>37,170,819</u>
Accumulated depreciation:				
Wastewater collection system				
Interceptor	(2,567,166)	(77,140)	-	(2,644,306)
Unit 1	(5,878,598)	(220,451)	-	(6,099,049)
Unit 2	(10,117,787)	(185,643)	-	(10,303,430)
Tools and lab equipment	(30,381)	-	-	(30,381)
Autos and trucks	(441,847)	(81,243)	-	(523,090)
Safety equipment	(6,231)	(292)	-	(6,523)
Booster building	(18,385)	(2,292)	-	(20,677)
Office building	(14,459)	(5,150)	-	(19,609)
Total accumulated depreciation	<u>(19,074,854)</u>	<u>(572,211)</u>	<u>-</u>	<u>(19,647,065)</u>
Total depreciable assets, net	<u>18,078,520</u>	<u>(554,766)</u>	<u>-</u>	<u>17,523,754</u>
Total capital assets, net	<u>\$ 18,099,559</u>	<u>\$ (519,361)</u>	<u>\$ (17,444)</u>	<u>\$ 17,562,754</u>

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS June 30, 2018 and 2017

NOTE 4: CAPITAL ASSETS

Capital assets at June 30, 2017, are summarized as follows:

	Balance 2016	Additions/ Transfers	Deletions / Transfers	Balance 2017
Non-depreciable assets:				
Water operations	\$ 3,332,210	\$ 1,865,413	\$ -	\$ 5,197,623
Wastewater operations	21,039	-	-	21,039
Total non-depreciable assets	<u>3,353,249</u>	<u>1,865,413</u>	<u>-</u>	<u>5,218,662</u>
Depreciable assets, net:				
Water operations	23,284,758	(880,242)	-	22,404,516
Wastewater operations	18,482,521	(404,001)	-	18,078,520
Total depreciable capital assets, net	<u>41,767,279</u>	<u>(1,284,243)</u>	<u>-</u>	<u>40,483,036</u>
Total Capital Assets, Net	<u>\$ 45,120,528</u>	<u>\$ 581,170</u>	<u>\$ -</u>	<u>\$ 45,701,698</u>

Changes for water operations capital assets in 2017 were as follows:

	Balance 2016	Additions/ Transfers	Deletions / Transfers	Balance 2017
Non-depreciable assets:				
Land	\$ 1,158,526	\$ -	\$ -	\$ 1,158,526
Construction-in progress	2,173,684	1,865,413	-	4,039,097
Total non-depreciable assets	<u>3,332,210</u>	<u>1,865,413</u>	<u>-</u>	<u>5,197,623</u>
Depreciable assets:				
Production equipment	10,119,973	8,076	-	10,128,049
Distribution equipment	29,824,711	76,856	-	29,901,567
Groundwater reclamation plant	2,642,127	-	-	2,642,127
Autos and trucks	923,996	29,799	(14,759)	939,036
Office equipment	619,439	10,668	-	630,107
Office building	548,360	12,634	-	560,994
Total depreciable assets	<u>44,678,606</u>	<u>138,033</u>	<u>(14,759)</u>	<u>44,801,880</u>
Accumulated depreciation:				
Production equipment	(3,822,828)	(295,200)	-	(4,118,028)
Distribution equipment	(13,776,023)	(596,493)	-	(14,372,516)
Groundwater reclamation plant	(2,266,838)	(14,098)	-	(2,280,936)
Autos and trucks	(761,416)	(75,954)	14,759	(822,611)
Office equipment	(533,440)	(21,104)	-	(554,544)
Office building	(233,303)	(15,426)	-	(248,729)
Total accumulated depreciation	<u>(21,393,848)</u>	<u>(1,018,275)</u>	<u>14,759</u>	<u>(22,397,364)</u>
Total depreciable assets, net	<u>23,284,758</u>	<u>(880,242)</u>	<u>-</u>	<u>22,404,516</u>
Total capital assets, net	<u>\$ 26,616,968</u>	<u>\$ 985,171</u>	<u>\$ -</u>	<u>\$ 27,602,139</u>

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS June 30, 2018 and 2017

NOTE 4: CAPITAL ASSETS

Changes for wastewater operations capital assets in 2017 were as follows:

	Balance 2016	Additions/ Transfers	Deletions / Transfers	Balance 2017
Non-depreciable assets:				
Construction-in progress	\$ 21,039	\$ -	\$ -	\$ 21,039
Total non-depreciable assets	21,039	-	-	21,039
Depreciable assets:				
Wastewater collection system				
Interceptor	4,988,812	-	-	4,988,812
Unit 1	11,404,199	-	-	11,404,199
Unit 2	19,891,101	-	-	19,891,101
Tools and lab equipment	30,381	-	-	30,381
Autos and trucks	459,241	281,085	(4,920)	735,406
Safety equipment	6,569	-	-	6,569
Booster building	66,465	-	-	66,465
Office equipment	26,886	3,555	-	30,441
Total depreciable assets	36,873,654	284,640	(4,920)	37,153,374
Accumulated depreciation:				
Wastewater collection system				
Interceptor	(2,450,934)	(116,232)	-	(2,567,166)
Unit 1	(5,675,551)	(203,047)	-	(5,878,598)
Unit 2	(9,764,300)	(353,487)	-	(10,117,787)
Tools and lab equipment	(30,381)	-	-	(30,381)
Autos and trucks	(438,059)	(8,708)	4,920	(441,847)
Safety equipment	(5,602)	(629)	-	(6,231)
Booster building	(16,256)	(2,129)	-	(18,385)
Office building	(10,050)	(4,409)	-	(14,459)
Total accumulated depreciation	(18,391,133)	(688,641)	4,920	(19,074,854)
Total depreciable assets, net	18,482,521	(404,001)	-	18,078,520
Total capital assets, net	\$ 18,503,560	\$ (404,001)	\$ -	\$ 18,099,559

In 2017-18, the District implemented GASB No. 89 which requires interest cost incurred before the end of the construction period to be recognized as an expense in the period in which the cost is incurred. Therefore, there is no capitalized interest for the year ended June 30, 2018.

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS June 30, 2018 and 2017

NOTE 5: COMPENSATED ABSENCES

Compensated absences comprise unpaid vacation leave, sick leave and compensating time off which is accrued as earned. The District's liability for compensated absences is determined annually. The change to compensated absences balances at June 30 were as follows:

Balance 2017	Additions	Deletions	Balance 2018	Due Within One Year	Due in More than One Year
\$ 328,047	\$ 312,907	\$ (338,533)	\$ 302,421	\$ 75,605	\$ 226,816

Balance 2016	Additions	Deletions	Balance 2017	Due Within One Year	Due in More than One Year
\$ 315,084	\$ 267,154	\$ (254,191)	\$ 328,047	\$ 82,012	\$ 246,035

NOTE 6: LONG-TERM DEBT

Changes in long-term debt amounts as of June 30, 2018 were as follows:

	Balance 2017	Additions	Payments/ Discount Amortization	Balance 2018	Amount due within one year
Long-term debt:					
Bonds payable:					
2007 Certificates of participation	\$ 8,100,000	\$ -	\$ (8,100,000)	\$ -	\$ -
2007 Certificates of participation discount	(174,990)	-	174,990	-	-
Total bonds payable	<u>7,925,010</u>	<u>-</u>	<u>(7,925,010)</u>	<u>-</u>	<u>-</u>
Loans payable:					
2016 GWP infrastructure loan	1,023,574	-	(51,012)	972,562	51,012
2017 Pacific Western loan	-	7,668,000	(371,000)	7,297,000	302,000
Total loans payable	<u>1,023,574</u>	<u>7,668,000</u>	<u>(422,012)</u>	<u>8,269,562</u>	<u>353,012</u>
Total long-term debt	<u>\$ 8,948,584</u>	<u>\$ 7,668,000</u>	<u>\$ (8,347,022)</u>	<u>\$ 8,269,562</u>	<u>\$ 353,012</u>

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 6: LONG-TERM DEBT

Changes in long-term debt amounts as of June 30, 2017 were as follows:

	Balance 2016	Additions	Payments/ Discount Amortization	Balance 2017	Amount due within one year
Long-term debt:					
Bonds payable:					
2007 Certificates of participation	\$ 8,355,000	\$ -	\$ (255,000)	\$ 8,100,000	\$ 265,000
2007 Certificates of participation discount	(183,917)	-	8,927	(174,990)	-
Total bonds payable	<u>8,171,083</u>	<u>-</u>	<u>(246,073)</u>	<u>7,925,010</u>	<u>265,000</u>
Loans payable:					
2016 GWP infrastructure loan	1,074,586	-	(51,012)	1,023,574	51,012
Total loans payable	<u>1,074,586</u>	<u>-</u>	<u>(51,012)</u>	<u>1,023,574</u>	<u>51,012</u>
Total long-term debt	<u>\$ 9,245,669</u>	<u>\$ -</u>	<u>\$ (297,085)</u>	<u>\$ 8,948,584</u>	<u>\$ 316,012</u>

2007 Series Certificates of Participation

On December 1, 2006, the Crescenta Valley Water District issued \$10,070,000 of 2007 Series Certificates of Participation (COPS) at an average rate of 4.19% to construct a variety of capital improvements to the District's water system and pay down loan debt from La Salle Bank. A reserve fund is held by the trustee and was funded from proceeds from the 2007 Certificates of Participation. Improvements include well rehabilitation, improvements to water reservoirs, water production and distribution systems. Debt service payments are due each June 1st and December 1st with principal payments commencing on June 1, 2009, maturing in fiscal year 2037. During the fiscal year 2018, the District entered into a new loan agreement to prepay the 2007 COPS. At June 30, 2018, the obligation had been paid in full.

2016 GWP Infrastructure Loan

On September 9, 2014, the District entered into a loan agreement to receive a \$1,091,590 zero-percent interest loan from the City of Glendale Water and Power to provide construction related expenditure costs related to the Rockhaven Well #16 project. Terms of the agreement call for monthly principal payments with an expected maturity in fiscal year 2037.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 6: LONG-TERM DEBT

Future annual debt service requirements are as follows:

Fiscal Year	Principal
2019	\$ 51,012
2020	51,012
2021	51,012
2022	51,012
2023	51,012
2024-2028	255,060
2029-2033	255,060
2034-2037	207,382
Total	972,562
Less current portion	(51,012)
Total non-current	<u>\$ 921,550</u>

2017 Pacific Western Infrastructure Loan

On August 1, 2017, the District entered into a loan agreement to receive a \$7,668,000 loan from the Pacific Western Bank to refund all outstanding 2007 certificates and to pay the cost of issuance in connection with such prepayment. Terms of the agreement call for semiannual installments of principal and interest payments with interest from between 4.00% to 4.375% and the loan maturing on June 1, 2037. In connection with this loan, the District recorded deferred outflows of resources on bond refunding of \$272,312 which will be amortized over the life of the loan. Future annual debt service requirements are as follows:

Fiscal Year	Principal	Interest
2019	\$ 302,000	\$ 236,521
2020	311,000	226,548
2021	324,000	216,248
2022	333,000	205,555
2023	346,000	194,568
2024-2028	1,908,000	793,598
2029-2033	2,240,000	457,354
2034-2037	1,533,000	88,916
Total	7,297,000	2,419,308
Less current portion	(302,000)	(236,521)
Total non-current	<u>\$ 6,995,000</u>	<u>\$ 2,182,788</u>

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 7: OTHER POSTEMPLOYMENT HEALTHCARE BENEFITS

The District provides postemployment health care benefits for retired employees in accordance with negotiated contracts with the various bargaining units of the District.

Plan Description and Eligibility

District employees who retire from the District at age 55 or older with 10 or more consecutive years of service with the District are eligible for lifetime medical benefits for themselves and their spouses. Retirees may continue their enrollment in any of the ACWA plans offered by the District. The District does not offer retiree dental or vision coverage.

The District pays the cost to continue current medical/hospitalization for a retired employee and eligible spouse, but not other dependents. An employee may opt for any ACWA medical plan offered by the District; however, District payment shall not exceed the cap. Coverage for a higher cost plan or additional eligible dependents may be provided at the employee's expense. Coverage will be maintained under its group benefit until the retiree elects to discontinue coverage.

For retired employees whose date of hire is prior to July 1, 2008, the full cost of retiree and spousal coverage will be paid by the District. For future retirees whose date of hire is on or after July 1, 2008, the District will pay 50% of the cost for employees who retire with 10 years of service, plus 5% for every additional year of service thereafter, up to a maximum of 100% for employees who retire with 20 or more years of service. Membership in the OPEB plan consisted of the following members as of June 30, 2018.

Participant Type:	Number of Participants
Inactive participants currently receiving benefits	22
Inactive participants entitled to but not yet receiving benefit payments	-
Active employees	33
Total	55

Funding Policy

The Districts' required contribution is based on projected pay-as-you-go financing requirements with an additional fixed dollar trust contribution. The fixed dollar contribution was \$100,000 in Fiscal year 2016-17 and will increase by \$50,000 per year to a maximum of \$250,000 per year until the plan is fully funded. For the fiscal year ended June 30, 2018, the District contributed \$213,076 to the plan including the implicit rate subsidy.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 7: OTHER POSTEMPLOYMENT HEALTHCARE BENEFITS

Net OPEB Liability (Asset)

The table herein shows the components of the net OPEB liability of the District:

	Balance June 30, 2018
Total OPEB liability	\$ 6,057,086
Plan fiduciary net position	100,000
District's net OPEB liability (asset)	<u>\$ 5,957,086</u>
Plan fiduciary net position as a percentage of the total OPEB liability (asset)	1.65%

Investments

At June 30, 2018, all Plan investments are held in the California Employers' Retiree Benefit Trust Program (CERBT) through CalPERS.

Actuarial Methods and Assumptions

The District's net OPEB liability was measured as of June 30, 2017, and the total OPEB liability used to calculate the net OPEB liability was determined by an actuarial valuation as of June 30, 2017. Liabilities in this report were calculated as of the valuation date.

The total OPEB liability was determined by an actuarial valuation as of June 30, 2017, using the actuarial assumptions shown herein, applied to all periods included in the measurement, unless otherwise specified.

Actuarial Methods and Assumptions	
Valuation Date	June 30, 2017
Measurement Date	June 30, 2017
Inflation	2.00%
Salary Increases	3.25%
Investment Rate of Return	7.28%
Health Care Trend Rate	3.84%

Mortality rates were based on the 2014 rates used by CalPERS for the pension valuations.

The long-term expected rate of return was based upon the CERBT strategy 1 investment policy. As of the valuation date, long-term expected rates of return for each major investment class in the Plan's portfolio are as follows:

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 7: OTHER POSTEMPLOYMENT HEALTHCARE BENEFITS

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Equity	60%	5.62%
Fixed Income	32%	1.70%
REITs	8%	5.06%

The discount rate is based on a blend of (a) the long-term expected rate of return on assets for benefits covered by plan assets and a yield or index for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or better for benefits not covered by plan assets.

Above are the arithmetic long-term expected real rates of return by asset class for the next 10 years as provided in a report by JP Morgan. For years thereafter, returns were based on historical average index real returns over the last 30 years assuming a similar equity/fixed investment mix and a 2.26% inflation rate. Investment expenses were assumed to be 10 basis points per year. These returns were matched with cash flows for benefits covered by plan assets and the Bond Buyer 20-Bond General Obligation index was matched with cash flows not covered by plan assets to measure the reasonableness of the choice in discount rate.

There have been no assumption changes since the last measurement date.

Changes in the Net OPEB Liability

	Increase (Decrease)		
	Total OPEB Liability (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability (Asset) (a) - (b)
Balances at June 30, 2017	\$ 5,668,516	\$ -	\$ 5,668,516
Changes for the year:			
Service cost	125,970	-	125,970
Interest	417,013	-	417,013
Employer contributions	-	234,956	(234,956)
Difference between expected and actual experience	(19,457)	-	(19,457)
Benefit payments	(134,956)	(134,956)	-
Implicit rate subsidy	-	-	-
Net changes	388,570	100,000	288,570
Balances at June 30, 2018	\$ 6,057,086	\$ 100,000	\$ 5,957,086

The following presents the District's net OPEB liability calculated using the discount rate of 7.0 percent, as well as what the net OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.0 percent) or 1-percentage-point higher (8.0 percent) than the current rate:

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS June 30, 2018 and 2017

NOTE 7: OTHER POSTEMPLOYMENT HEALTHCARE BENEFITS

Discount rate	Net OPEB Liability (Asset)
1% decrease (6.28%)	\$ 6,924,579
Current discount rate (7.28%)	5,957,086
1% increase (8.28%)	5,178,532

The following presents the District's net OPEB liability calculated using the current healthcare cost trend rate of 4.0 percent, as well as what the net OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage-point lower (3.0 percent) or 1-percentage-point higher (5.0 percent) than the current rate:

Healthcare trend rate	Net OPEB Liability (Asset)
1% decrease (6.00% decreasing to 2.84%)	\$ 5,111,600
Current healthcare trend rate (7.0% decreasing to 3.84%)	5,957,086
1% increase (8.00% decreasing to 4.84%)	7,023,407

OPEB Expense

For the year ended June 30, 2018, the District recognized OPEB expense of \$537,623. As of fiscal year ended June 30, 2018, the District reported deferred outflows and inflows of resources related to the OPEB from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Contribution to OPEB plan after measurement date	\$ 213,076	\$ -
Differences between expected and actual experience in the measurement of the TOL	-	16,959
Net difference between projected and actual earnings of OPEB plan investments	2,860	-
Total	<u>\$ 215,936</u>	<u>\$ 16,959</u>

As of June 30, 2018, employer OPEB contributions of \$213,076 reported as deferred outflows of resources related to contributions subsequent to the measurement date were and will be recognized as a reduction of the net pension liability in the fiscal year ended June 30, 2019.

Amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 7: OTHER POSTEMPLOYMENT HEALTHCARE BENEFITS

Fiscal Year Ended June 30	Deferred Outflows/(Inflows of Resources
2019	\$ (1,785)
2020	(1,785)
2021	(1,785)
2022	(1,784)
2023	(2,500)
Thereafter	(4,457)
	<u>\$ (14,096)</u>

NOTE 8: DEFINED BENEFIT PENSION PLAN

Plan Description

All qualified permanent and probationary employees are eligible to participate in the District's separate Miscellaneous Employee Pension Plans, cost-sharing multiple employer defined benefit pension plans administered by the California Public Employees' Retirement System (CalPERS). Benefit provisions under the Plan is established by State statute and Local Government resolution. CalPERS issues publicly available reports that include a full description of the pension plan regarding benefit provisions, assumptions and membership information that can be found on the CalPERS website or may be obtained from their executive office: 400 P Street, Sacramento, CA, 95814.

Benefits Provided

CalPERS provides service retirement and disability benefits, annual cost of living adjustments and death benefits to plan members, who must be public employees and beneficiaries. Benefits are based on years of credited service, equal to one year of full time employment. Members with five years of total service are eligible to retire at age 50 with statutorily reduced benefits. All members are eligible for non-duty disability benefits after 10 years of service. The death benefit is one of the following: The Basic Death Benefit, the 1957 Survivor Benefit, or the Optional Settlement 2W Death Benefit. The cost of living adjustments for each plan are applied as specified by the Public Employees' Retirement Law.

On September 12, 2012, the California Governor signed the California Public Employees' Pension Reform Act of 2013 (PEPRA) into law. PEPRA took effect January 1, 2013. The new legislation closed the District's CalPERS 2.0% at 55 Risk Pool Retirement Plan to new employee entrants, not previously employed by an agency under CalPERS, effective December 31, 2013. All employees hired after January 1, 2013 are eligible for the District's CalPERS 2.0% at 62 Retirement Plan under PEPRA.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 8: DEFINED BENEFIT PENSION PLAN

The Plans' provision and benefits in effect at June 30, 2018, are summarized as follows:

	Miscellaneous Plan	
	Tier 1	Tier 2
	Prior to January 1, 2013	On or after January 1, 2013
Hire Date		
Benefit formula	2.0% @ 55	2.0% @ 62
Benefit vesting schedule	5 years of service	5 years of service
Benefit payments	monthly for life	monthly for life
Retirement age	50-55	52-67
Required employee contribution rates	7.000%	6.250%
Required employer contribution rates	8.921%	6.533%

Contributions

Section 20814(c) of the California Public Employees' Retirement Law requires that the employer contribution rates, for all public employers, be determined on an annual basis by the actuary and shall be effective on July 1 following notice of the change in rate. Funding contributions for the Plan are determined annually on an actuarial basis as of June 30 by CalPERS. The actuarially determined rate is the estimated amount necessary to finance the costs of benefits earned by employees during the year, with an additional amount to finance any unfunded accrued liability.

The District is required to contribute the difference between the actuarially determined rate and the contribution rate of employees.

As of the fiscal year ended June 30, the contributions recognized as part of pension expense for the Plan was as follows:

	Miscellaneous Plan	
	2018	2017
Contribution - employer	\$ 350,982	\$ 381,098
Contribution - employee (paid by employer)	165,207	118,218
Total employer paid contributions	<u>\$ 516,189</u>	<u>\$ 499,316</u>

Net Pension Liability

As of the fiscal year ended June 30, the District reported net pension liabilities for its proportionate share of the net pension liability of the Plan was as follows:

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 8: DEFINED BENEFIT PENSION PLAN

	Proportionate Share of Net Pension Liability	
	2018	2017
Miscellaneous Plan	\$ 3,978,224	\$ 3,364,245

The District's net pension liability for the Plan is measured as the proportionate share of the net pension liability. The net pension liability of the Plan is measured as of June 30, 2017 and 2016, and the total pension liability for the Plan used to calculate the net pension liability was determined by an actuarial valuation as of June 30, 2016 and 2015, rolled forward to June 30, 2017 and 2016, using standard update procedures. The District's proportion of the net pension liability was based on a projection of the District's long-term share of contributions to the pension plan relative to the projected contributions of all participating employers, actuarially determined.

The District's proportionate share of the pension liability for the District's Plan as of the June 30, 2017 and 2016 valuation was as follows:

	Miscellaneous Plan
Proportion- June 30, 2017	0.04010%
Proportion- June 30, 2016	0.03888%
Change- Increase (Decrease)	0.00122%

The District's proportionate share of the pension liability for the District's Plan as of the June 30, 2016 and 2015 valuation was as follows:

	Miscellaneous Plan
Proportion- June 30, 2016	0.03888%
Proportion- June 30, 2015	0.03660%
Change- Increase (Decrease)	0.00228%

Deferred Pension Outflows (Inflows) of Resources

As of June 30, 2018 and 2017, the District recognized pension expense of \$744,651 and \$361,090, respectively.

As of the fiscal year ended June 30, 2018, the District reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 8: DEFINED BENEFIT PENSION PLAN

Description	Deferred Outflows of Resources	Deferred Inflows of Resources
Contributions subsequent to the measurement date	\$ 350,982	\$ -
Changes in Assumptions	691,460	(52,725)
Difference between expected and actual experience	5,573	(79,841)
Net difference between projected and actual earnings on plan investments	156,380	-
Effect of change in employer's proportion	-	(178,542)
Differences between actual contribution and proportional share of contribution	20,697	(87,257)
Total	<u>\$ 1,225,092</u>	<u>\$ (398,365)</u>

As of the fiscal year ended June 30, 2017, the District reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

Description	Deferred Outflows of Resources	Deferred Inflows of Resources
Pension contributions subsequent to the measurement date	\$ 381,098	\$ -
Differences between actual and expected experience	8,502	-
Changes in assumptions	-	(104,343)
Net differences between projected and actual earnings on plan investments	543,071	-
Differences between actual contribution and proportional share of contribution	32,872	(38,237)
Net adjustments due to differences in proportions of net pension liability	-	(231,593)
	<u>\$ 965,543</u>	<u>\$ (374,173)</u>

As of June 30, 2018 and 2017, employer pension contributions of \$350,982 and \$381,098, respectively, reported as deferred outflows of resources related to contributions subsequent to the measurement date were and will be recognized as a reduction of the net pension liability in the fiscal year ended June 30, 2019 and 2018, respectively.

As of June 30, 2018, the District recognized other amounts reported by the Plan actuarial as deferred outflows of resources and deferred inflows of resources related to the pension liability.

Pension related amounts will be recognized as pension expense as follows:

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 8: DEFINED BENEFIT PENSION PLAN

Fiscal Year Ending June 30	Deferred Outflows/ (Inflows) of Resources
2018	\$ 167,688
2019	273,935
2020	175,252
2021	(141,130)
2022	-
	<u>\$ 475,745</u>

Actuarial Assumptions

The total pension liability in the June 30, 2016 and 2015 actuarial valuation report was determined using the following actuarial assumptions:

	2018	2017
Valuation date	June 30, 2016	June 30, 2015
Measurement date	June 30, 2017	June 30, 2016
Experience study	July 1, 1997 through June 30, 2011	July 1, 1997 through June 30, 2011
Actuarial cost method	Entry age normal	Entry age normal
Actuarial assumptions:		
Discount rate	7.15%	7.65%
Investment Rate of Return	7.00%	7.50%
Consumer price inflation	2.75%	2.75%
Wage growth	Varies by entry age and service	Varies by entry age and service

* The mortality table used was developed based on CalPERS' specific data. The table includes 20 years of mortality improvements using Scale BB published by the Society of Actuaries.

Discount Rate

The Discount rate used to measure the total pension liability was 7.15% for the Plan. To determine whether the municipal bond rate should be used in the calculation of a discount rate for the plan, CalPERS stress tested plans that would most likely result in a discount rate that would be different from the actuarially assumed discount rate. Based on the testing, none of the tested plans run out of assets. Therefore, the current 7.15% discount rate is adequate and the use of the municipal bond rate calculation is not necessary. The long term expected discount rate of 7.15% will be applied to all plans in the Public Employees' Retirement Fund (PERF). The stress test results are presented in a detailed report which can be obtained from the CalPERS website.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 8: DEFINED BENEFIT PENSION PLAN

According to Paragraph 30 of Statement 68, the long-term discount rate should be determined without reduction for pension plan administrative expense. The 7.15% investment return assumption used in this accounting valuation is net of administrative expenses. Administrative expenses are assumed to be 15 basis points. An investment return excluding administrative expenses would have been 7.65%. Using this lower discount rate has resulted in a slightly higher Total Pension Liability and Net Pension Liability. CalPERS confirmed the materiality threshold for the difference in the calculation and did not find it to be a material difference.

CalPERS is scheduled to review all actuarial assumptions as part of its regular Asset Liability Management (ALM) review cycle that is scheduled to be completed in February 2018. Any changes to the Discount rate will require CalPERS Board action and proper stakeholder outreach. For these reasons, CalPERS expects to continue using a discount rate net of administrative expenses for GASB 67 and 68 calculations through at least the fiscal year ended 2017-2018. CalPERS will continue to check the materiality of the difference in the calculation until such time as it has changed its methodology.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class.

In determining the long-term expected rate of return, CalPERS took into account both short-term and long-term market return expectations as well as the expected pension fund cash flows. Using historical returns of all the funds' asset classes, expected compound returns were calculated over the short-term (first 10 years) and the long-term (11-60 years) using a building-block approach. Using the expected nominal returns for both short-term and long-term, the present value of benefits was calculated for each fund. The expected rate of return was set by calculating the single equivalent return that arrived at the same present value of benefits for cash flows as the one calculated using both short-term and long-term returns. The expected rate of return was then set equivalent to the single equivalent rate calculated above and rounded down to the nearest one quarter of one percent.

The table below reflects the long-term expected real rate of return by asset class. The rate of return was calculated using the capital market assumptions applied to determine the discount rate and asset allocation.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 8: DEFINED BENEFIT PENSION PLAN

Asset Class	New Strategic Allocation	Real Return Years 1-10*	Real Return Years 11+**
Global Equity	47.00%	5.25%	5.71%
Global Fixed Income	19.00%	0.99%	2.43%
Private Equity	12.00%	6.83%	6.95%
Real Estate	11.00%	4.50%	5.13%
Inflation Sensitive	6.00%	0.45%	3.36%
Infrastructure and Forestland	3.00%	4.50%	5.09%
Liquidity	2.00%	-0.55%	-1.05%

Sensitivity of the Proportionate Share of Net Pension Liability to Changes in the Discount Rate

The following table presents the District's proportionate share of the net position liability for the Plan, calculated using the discount rate, as well as what the District's proportional share of the net pension liability would be if it were calculated using a discount rate that is one percentage point lower or one percentage point higher than the current rate:

At June 30, 2018, the discount rate comparison was the following:

	Discount Rate -1% (6.15%)	Prior Discount Rate (7.15%)	Discount Rate +1% (8.15%)
District's Net Pension Liability	\$ 6,257,475	\$ 3,978,224	\$ 2,090,507

At June 30, 2017, the discount rate comparison was the following:

	Discount Rate -1% (6.65%)	Current Discount Rate (7.65%)	Discount Rate +1% (8.65%)
District's Net Pension Liability	\$ 5,357,819	\$ 3,364,245	\$ 1,716,654

Pension Plan Fiduciary Net Position

Detailed information about the pension plan's fiduciary net position is available in separately issued CalPERS financial reports. See pages 55 through 56 for the Required Supplementary Schedules.

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS

June 30, 2018 and 2017

NOTE 9: DEFERRED COMPENSATION PLAN

For the benefit of its employees, the District participates in a 457 Deferred Compensation Program (Program) administered by CalPERS and FTJ Fund Choice. The purpose of this program is to provide deferred compensation for public employees that elect to participate in the Program. Generally, eligible employees may defer receipt of a portion of their salary until termination, retirement, death, or unforeseen emergency. Until the funds are paid or otherwise made available to the employee, the employee is not obligated to report the deferred salary for income tax purposes.

Federal law requires deferred compensation assets to be held in trust for the exclusive benefit of the participants. Accordingly, the District is in compliance with this legislation. Therefore, these assets are not the legal property of the District, and are not subject to claims of the District's general creditors. Market value of all plan assets held in trust by the District plan amounted to \$1,265,604 and \$1,417,310 in fiscal years 2018 and 2017, respectfully.

The District has implemented GASB Statement No. 32, Accounting for Financial Reporting for Internal Revenue code Section 457 Deferred Compensation Plans. Since the District has little administrative involvement and does not perform the investing function of this plan, the assets and related liabilities are not shown on the Statements of Net Position.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 10: NET POSITION

The components of net position as of June 30 are as follows:

	2018	2017
Net investment in capital assets:		
Capital assets- not being depreciated	\$ 7,344,629	\$ 5,218,662
Depreciable capital assets, net	40,567,859	40,483,036
Certificates of participation payable- current		(265,000)
Certificates of participation payable- non-current		(7,660,010)
Loan payable- current	(353,012)	(51,012)
Loan payable- non-current	(7,916,550)	(972,562)
Deferred outflows refunding	272,342	
Total net investments in capital assets	39,915,268	36,753,114
Restricted net position:		
Investments- restricted	-	617,361
Unrestricted net position:		
Non-spendable net position:		
Materials and supplies inventory	536,356	356,671
Prepaid expenses and other deposits	48,145	44,470
Total non-spendable net position	584,501	401,141
Spendable net position is as follows:		
Unrestricted	3,823,000	7,218,336
Total spendable net position	3,823,000	7,218,336
Total unrestricted net position	4,407,501	7,619,477
Total net position	\$ 44,322,769	\$ 44,989,952

NOTE 11: RISK MANAGEMENT

The District is exposed to various risks of loss related to torts, theft of, damage to and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The District is a member of the Association of California Water Agencies/Joint Powers Insurance Authority (ACWA/JPIA), an intergovernmental risk sharing joint powers authority created to provide self-insurance programs for California water agencies. The purpose of the ACWA/JPIA is to arrange and administer programs of self- insured losses and to purchase excess insurance coverage.

At June 30, 2018, the District participated in the liability, property programs, and workers' compensation programs of the ACWA/JPIA as follows:

- General and auto liability, public officials and employees' errors and omissions: Total risk financing self-insurance limits of \$2,000,000 per occurrence. The District has additional excess

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS

June 30, 2018 and 2017

NOTE 11: RISK MANAGEMENT

coverage layers through ACWA/JPIA: \$58 million for general, auto and public officials liability, which increases the limits on the insurance coverage noted above.

In addition to the above, the District also has the following insurance coverage:

- Employee dishonesty coverage from the ACWA/JPIA provides self-insurance up to \$100,000 subject to a \$1,000 deductible per loss. The District has purchased excess coverage up to \$1,000,000 per loss, subject to a \$100,000 deductible. Coverage includes public employee dishonesty, forgery or alteration, computer fraud, and faithful performance.
- Property loss is paid at the replacement cost for property on file, if replaced within two years after the loss, otherwise paid on an actual cash value basis, to a combined total of \$150 million per occurrence, subject to a \$2,500 deductible per occurrence. Mobile equipment is replaced at actual cash value subject to a \$2,500 deductible per occurrence. Scheduled vehicles covered for comprehensive and collision, actual cash value basis subject to \$1,000 deductible per occurrence.
- Boiler and machinery coverage for the replacement cost up to \$150 million per occurrence, subject to various deductibles depending on the type of equipment.
- Workers' compensation insurance up to California statutory limits for all work related injuries/illnesses covered by California law.

Settled claims have not exceeded any of the coverage amounts in any of the last three fiscal years and there were no reductions in the District's insurance coverage during the years ending June 30, 2017, 2016 and 2015. Liabilities are recorded when it is probable that a loss has been incurred and the amount of the loss can be reasonably estimated net of the respective insurance coverage. Liabilities include an amount for claims that have been incurred but not reported (IBNR). There were no IBNR claims payable as of June 30, 2018, 2017, and 2016, respectively.

NOTE 12: GOVERNMENTAL ACCOUNTING STANDARDS BOARD STATEMENTS ISSUED, NOT YET EFFECTIVE

The Governmental Accounting Standards Board (GASB) has issued several pronouncements prior to June 30, 2018, that has effective dates that may impact future financial presentations.

Governmental Accounting Standards Board Statement No. 83

In November 2016, the GASB issued Statement No. 83 ***Certain Asset Retirement Obligations***. This statement addresses accounting and financial reporting for certain asset retirement obligations when a legally enforceable liability is associated with the retirement of a tangible

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE FINANCIAL STATEMENTS

June 30, 2018 and 2017

NOTE 12: GOVERNMENTAL ACCOUNTING STANDARDS BOARD STATEMENTS ISSUED, NOT YET EFFECTIVE

capital asset. The statement establishes criteria for determining the timing and pattern of recognition of a liability and a corresponding deferred outflows of resources. The statement is effective for the fiscal year 2018-19.

Governmental Accounting Standards Board Statement No. 84

In January 2017, the GASB issued Statement No. 84 *Fiduciary Activities*. The objective of the statement is to improve guidance regarding the recognition of fiduciary activities for accounting and financial reporting purposes by establishing criteria for identifying fiduciary activities of all state and local governments. The statement is effective for the fiscal year 2019-20.

Governmental Accounting Standards Board Statement No. 87

In June 2017, the GASB issued Statement No. 86 *Leases*. The objective of this Statement is to better meet the information needs of financial statement users by improving accounting and financial reporting for leases by governments. This Statement increases the usefulness of governments' financial statements by requiring recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment provisions of the contract. The statement is effective for the fiscal year 2020-21.

Governmental Accounting Standards Board Statement No. 88

In June 2017, the GASB issued Statement No. 88 *Certain Disclosures Related to Debt, including Direct Borrowings and Direct Replacements*. The statement defines debt for purposes of disclosure in the notes to the financial statements. The statement requires additional disclosures related to debt obligations, including direct borrowings and direct placements. Amounts of unused lines of credit, assets pledged as collateral for debt and terms specified in debt agreements related to significant 1) events or default with finance-related consequences; 2) termination events with finance-related consequences and) subjective acceleration clauses are also required to be disclosed. The statement is effective for the fiscal year 2018-19.

Governmental Accounting Standards Board Statement No. 90

In August 2018, the GASB issued Statement No. 90 *Majority Equity Interests – an amendment of GASB Statements No. 14 and No. 61*. The statement modifies previous guidance for reporting a majority equity interest in a legally separate organization and provides guidance for reporting a component unit if 100 percent equity interest is acquired in that component unit. The statement is effective for the fiscal year 2019-20.

CRESCENTA VALLEY WATER DISTRICT
NOTES TO THE FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 13: COMMITMENTS AND CONTINGENCIES

Litigation

In the ordinary course of operations, the District is subject to claims and litigation from outside parties. After consultation with legal counsel, the District believes the ultimate outcome of such matters, if any, will not materially affect its financial condition.

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REQUIRED SUPPLEMENTARY INFORMATION

CRESCENTA VALLEY WATER DISTRICT

**SCHEDULE OF CHANGES IN THE NET OPEB LIABILITY –
OTHER POSTEMPLOYMENT
BENEFITS OBLIGATION
June 30, 2018**

Total OPEB Liability	2018
Service Cost	\$ 125,970
Interest	417,013
Differences between expected and actual experience	(19,457)
Benefit Payments	<u>(134,956)</u>
Net Change in Total OPEB Liability	388,570
Total OPEB Liability - beginning	<u>5,668,516</u>
Total OPEB Liability - ending (a)	<u><u>\$ 6,057,086</u></u>
Plan Fiduciary Net Position	2018
Contributions - Employer	\$ 234,956
Net Investment Income	-
Benefit Payments	(134,956)
Administrative Expense	<u>-</u>
Net Change in Plan Fiduciary Net Position	100,000
Plan Fiduciary Net Position - beginning	<u>-</u>
Plan Fiduciary Net Position - ending (b)	<u><u>\$ 100,000</u></u>
Net OPEB Liability (Asset) - ending (a) - (b)	<u><u>\$ 5,957,086</u></u>
Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability	1.65%
Covered-employee payroll	\$ 3,305,507
Net OPEB liability (asset) as a percentage of covered-employee payroll	180.22%

Note: Accounting standards require presentation of 10 years of information in this schedule is not required to be presented retroactively. Years will be added to this schedule as data becomes available.

CRESCENTA VALLEY WATER DISTRICT

**SCHEDULE OF POST EMPLOYMENT
HEALTHCARE BENEFIT CONTRIBUTIONS –
OTHER POSTEMPLOYMENT BENEFITS OBLIGATION
BENEFITS OBLIGATION
June 30, 2018**

OPEB Contributions	2018
Actuarially Determined Contribution (ADC)	\$ 525,315
Contributions in relation to the ADC	234,956
Contribution deficiency (excess)	<u>\$ 290,359</u>
District's covered-employee payroll	\$ 3,305,507
Contributions as a percentage of covered-employee payroll	7.11%

Note: Accounting standards require presentation of 10 years of information in this schedule is not required to be presented retroactively. Years will be added to this schedule as data becomes available.

CRESCENTA VALLEY WATER DISTRICT

SCHEDULE OF DISTRICT'S PROPORTIONATE SHARE OF THE NET PENSION LIABILITY

June 30,

Description	2015	2016	2017	2018
District's proportion of the Net pension liability (asset)	0.03881%	0.03660%	0.03888%	0.04010%
District's proportion share of the net pension liability (asset)	\$ 2,415,225	\$ 2,512,020	\$ 3,364,245	\$ 3,978,224
District's covered payroll as of previous fiscal year to align with the measurement date of the net pension liability	\$ 2,296,444	\$ 2,388,479	\$ 2,715,807	\$ 2,906,241
District's proportion share of the net pension liability (asset) as a percentage of its covered payroll	105.17%	105.17%	123.88%	136.89%
District's fiduciary net position as a percentage of the total pension liability	77.88%	81.15%	75.87%	75.39%

Note: Accounting standards require presentation of 10 years of information in this schedule is not required to be presented retroactively. Years will be added to this schedule as data becomes available.

See independent auditors' report and notes to the required supplementary information.

CRESCENTA VALLEY WATER DISTRICT
SCHEDULE OF DISTRICT'S CONTRIBUTIONS -
NET PENSION LIABILITY
June 30,

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Contractually required contribution	\$ 292,716	\$ 308,670	\$ 381,098	\$ 350,982
Contribution's in related to the contractually required contribution	<u>(292,716)</u>	<u>(308,670)</u>	<u>(381,098)</u>	<u>(350,982)</u>
Contribution deficiency (excess)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
District's covered payroll	\$ 2,388,479	\$ 2,715,807	\$ 2,906,241	\$ 3,305,507
Contribution's as a percentage of covered Payroll	11.01%	11.33%	13.11%	10.62%

Note: Accounting standards require presentation of 10 years of information in this schedule is not required to be presented retroactively. Years will be added to this schedule as data becomes available.

See independent auditors' report and notes to the required supplementary information.

CRESCENTA VALLEY WATER DISTRICT

NOTES TO THE REQUIRED SUPPLEMENTARY INFORMATION

June 30, 2018

NOTE 1: PURPOSE OF SCHEDULES

Schedule of Changes in Net OPEB Liability

The schedule is intended to show the funded status of the District's actuarially determined liability for postemployment benefits other than pensions. In the future, as data becomes available, 10 years of information will be presented.

Schedule of Postemployment Healthcare Contributions

The schedule presents information on the District's required contribution, the amounts actually contributed and any excess or deficiency related to the required contribution. In the future, as data becomes available, 10 years of information will be presented.

Schedule of District's Proportionate Share of the Net Pension Liability

The schedule presents information on the District's proportionate share of the net pension liability, the plans' fiduciary net position and, when applicable, the State's proportionate share of the net pension liability associated with the District. In the future, as data becomes available, 10 years of information will be presented.

Schedule of District's Contributions

The schedule presents information on the District's required contribution, the amounts actually contributed and any excess or deficiency related to the required contribution. In the future, as data becomes available, 10 years of information will be presented.

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SUPPLEMENTARY INFORMATION

CRESCENTA VALLEY WATER DISTRICT

COMBINING SCHEDULE OF FUND NET POSITION For The Fiscal Year Ended June 30, 2018

	Enterprise Funds		Total
	Water Fund	Sewer Fund	
Assets			
Current Assets			
Cash and cash equivalents	\$ 156,383	\$ 525,546	\$ 681,929
Cash interest receivable	78,311	-	78,311
Accounts receivable- water and wastewater, net	1,641,081	498,908	2,139,989
Accounts receivable- other	4,127	-	4,127
Material and supplies inventory	532,255	4,101	536,356
Prepaid expenses and other deposits	29,225	18,920	48,145
Total Current Assets	<u>2,441,382</u>	<u>1,047,475</u>	<u>3,488,857</u>
Noncurrent assets:			
Investments	11,170,682	-	11,170,682
Internal balances	(1,666,197)	1,666,197	-
Capital assets- not being depreciated	7,305,629	39,000	7,344,629
Depreciable capital assets	<u>23,044,105</u>	<u>17,523,754</u>	<u>40,567,859</u>
Total Non-Current Assets	<u>39,854,219</u>	<u>19,228,951</u>	<u>59,083,170</u>
Total Assets	<u>42,295,601</u>	<u>20,276,426</u>	<u>62,572,027</u>
Deferred outflows of resources:			
Deferred outflows on bond refunding	272,342	-	272,342
Deferred pension outflows	735,055	490,037	1,225,092
Deferred other post-employment benefits outflows	<u>129,563</u>	<u>86,373</u>	<u>215,936</u>
Total Deferred Outflows	<u>1,136,960</u>	<u>576,410</u>	<u>1,713,370</u>

Continued on next page.

CRESCENTA VALLEY WATER DISTRICT

COMBINING SCHEDULE OF FUND NET POSITION For The Fiscal Year Ended June 30, 2018

	Enterprise Funds		
	Water Fund	Sewer Fund	Total
Liabilities			
Current liabilities:			
Accounts payable and accrued expenses	\$ 620,253	\$ 71,992	\$ 692,245
Accrued wages and related payables	74,879	37,923	112,802
Customer deposits	144,805	41,388	186,193
Accrued interest expense	48,771	-	48,771
Long-term liabilities- due within one year:			
Compensated absences	56,704	18,901	75,605
Loan payable	353,012		353,012
Total Current Liabilities	1,298,424	170,204	1,468,628
Noncurrent liabilities:			
Long-term liabilities- due in more than one year:			
Compensated absences	170,112	56,704	226,816
Loan payable	7,916,550	-	7,916,550
Other post employment benefits payable	3,534,365	2,422,721	5,957,086
Net pension liability	2,386,934	1,591,290	3,978,224
Total Noncurrent Liabilities	14,007,961	4,070,715	18,078,676
Total Liabilities	15,306,385	4,240,919	19,547,304
Deferred inflows of resources:			
Deferred pension inflows	239,019	159,346	398,365
Deferred other post-employment benefits inflows	10,175	6,784	16,959
Total Deferred Inflows of Resources	249,194	166,130	415,324
Net position:			
Net investment in capital assets	22,352,514	17,562,754	39,915,268
Unrestricted	5,596,663	(1,189,162)	4,407,501
Total Net Position	\$ 27,949,177	\$ 16,373,592	\$ 44,322,769

See independent auditors' report

CRESCENTA VALLEY WATER DISTRICT

COMBINING SCHEDULE OF REVENUES, EXPENSES AND CHANGES IN FUND NET POSITION For The Fiscal Year Ended June 30, 2018

	Enterprise Funds		
	Water Fund	Sewer Fund	Total
Operating revenues:			
Water operations- consumption sales	\$ 7,519,558	\$ -	\$ 7,519,558
Water operations- service charge	2,637,222	-	2,637,222
Water operations- other charges	1,180,936	-	1,180,936
Wastewater operations- user and standby charges	-	3,033,860	3,033,860
Total operating revenues	<u>11,337,716</u>	<u>3,033,860</u>	<u>14,371,576</u>
Operating expenses:			
Source of supply	3,404,291	-	3,404,291
Plant operations	1,962,667	226,720	2,189,387
Distribution system	1,071,502	-	1,071,502
City of Los Angeles wastewater system	-	1,097,781	1,097,781
Collection system	-	251,013	251,013
General and administrative expenses	2,913,308	1,631,825	4,545,133
Total operating expenses before depreciation	<u>9,351,768</u>	<u>3,207,339</u>	<u>12,559,107</u>
Operating income(loss) before depreciation	<u>1,985,948</u>	<u>(173,479)</u>	<u>1,812,469</u>
Depreciation expense	<u>(1,104,500)</u>	<u>(572,211)</u>	<u>(1,676,711)</u>
Operating gain (loss)	<u>881,448</u>	<u>(745,690)</u>	<u>135,758</u>
Non-operating revenues(expenses):			
Investment earnings (losses)	53,647	283	53,930
Interest expense	(220,802)	-	(220,802)
Rental income	25,200	8,400	33,600
Other income(expense), net	<u>(101,147)</u>	<u>(72,496)</u>	<u>(173,643)</u>
Total non-operating income(loss), net	<u>(243,102)</u>	<u>(63,813)</u>	<u>(306,915)</u>
Net income(loss) before capital contributions	<u>638,346</u>	<u>(809,503)</u>	<u>(171,157)</u>
Capital contributions:			
Capital grants- state	553,187	-	553,187
Capital grants- local	20,400	-	20,400
Assessments	-	69,463	69,463
Total capital contributions	<u>573,587</u>	<u>69,463</u>	<u>643,050</u>
Change in net position	<u>1,211,933</u>	<u>(740,040)</u>	<u>471,893</u>
Net Position, Beginning of Fiscal Year	<u>27,420,690</u>	<u>17,569,262</u>	<u>44,989,952</u>
Cumulative Effect of Change in Accounting Principle	<u>(683,446)</u>	<u>(455,630)</u>	<u>(1,139,076)</u>
Net Position, Beginning of Fiscal Year, Restated	<u>26,737,244</u>	<u>17,113,632</u>	<u>43,850,876</u>
Net Position, End of Fiscal Year	<u>\$ 27,949,177</u>	<u>\$ 16,373,592</u>	<u>\$ 44,322,769</u>

See independent auditors' report

CRESCENTA VALLEY WATER DISTRICT

DETAILED SCHEDULES OF REVENUES, EXPENSES AND CHANGES OF FUND NET POSITION WATER OPERATIONS

For the Fiscal Years Ended June 30, 2018 and 2017

	2018		2017	
	Amount	Percent	Amount	Percent
Operating revenues:				
Water operations- customers	\$ 7,519,558	66.32%	\$ 6,540,242	68.43%
Water operations- others	168,249	1.48%	122,780	1.28%
Service charges	2,637,222	23.26%	2,245,629	23.49%
Meter installations	363,728	3.21%	43,440	0.45%
Other revenue	648,959	5.72%	605,830	6.34%
Total operating revenues	11,337,716	100.00%	9,557,921	100.00%
Operating expenses:				
Source of supply- water purchases	3,404,291	36.40%	3,149,245	34.96%
Plant operations:				
Power	693,534	7.42%	668,941	7.43%
Plant wages	609,429	6.52%	604,754	6.71%
Utilities	24,048	0.26%	11,605	0.13%
Telephone	-	0.00%	-	0.00%
Maintenance	94,135	1.01%	195,399	2.17%
Signal system	17,021	0.18%	13,253	0.15%
Lab and treatment	272,553	2.91%	155,763	1.73%
Nitrate treatment	52,995	0.57%	69,275	0.77%
Insurance	143,510	1.53%	136,078	1.51%
Other expense	55,442	0.59%	86,014	0.95%
Total plant operations	1,962,667	20.99%	1,941,082	21.55%
Distribution system:				
Meter maintenance	803,177	8.59%	881,962	9.79%
Pipeline maintenance	92,137	0.99%	56,251	0.62%
Backflow operations	515	0.01%	529	0.01%
Reservoir and building maintenance	59,408	0.64%	84,955	0.94%
Auto and truck expense	103,015	1.10%	90,738	1.01%
Property taxes	13,250	0.14%	12,766	0.14%
Total distribution system	1,071,502	11.46%	1,127,201	12.51%

Continued on next page

CRESCENTA VALLEY WATER DISTRICT

DETAILED SCHEDULES OF REVENUES, EXPENSES AND CHANGES OF FUND NET POSITION WATER OPERATIONS, CONTINUED For the Fiscal Years Ended June 30, 2018 and 2017

	2018		2017	
	Amount	Percent	Amount	Percent
Operating expenses, continued:				
General and administrative:				
Directors' fees	8,190	0.09%	8,100	0.09%
Salaries- statutory officers	127,470	1.36%	174,752	1.94%
Salaries- general office	453,008	4.84%	475,605	5.28%
Retirement (CalPERS)	731,224	7.82%	322,285	3.58%
Payroll taxes	131,013	1.40%	132,971	1.48%
Engineering and drafting	302,208	3.23%	342,348	3.80%
Accounting	7,500	0.08%	5,757	0.06%
Legal	132,884	1.42%	49,138	0.55%
Administrative consultant- water system	64,830	0.69%	61,264	0.68%
Insurance- general	19,713	0.21%	20,938	0.23%
Insurance- group	496,729	5.31%	754,517	8.38%
Maintenance	18,311	0.20%	16,356	0.18%
Computer and supplies	106,704	1.14%	83,653	0.93%
Utilities	17,907	0.19%	17,336	0.19%
Telephone	80,832	0.86%	110,350	1.22%
Printing and postage	41,090	0.44%	44,300	0.49%
Bad debt	-	0.00%	-	0.00%
Water system fees	52,349	0.56%	58,473	0.65%
Water conservation	19,815	0.21%	27,040	0.30%
Training	27,943	0.30%	21,127	0.23%
Other	73,588	0.79%	64,922	0.72%
Total general and administrative	2,913,308	31.15%	2,791,232	30.98%
Total operating expenses	9,351,768	100.00%	9,008,760	100.00%
Operating income before depreciation	1,985,948	100.00%	549,161	100.00%
Depreciation expense	(1,104,500)	100.00%	(1,018,275)	100.00%
Operating income (loss)	881,448	100.00%	(469,114)	100.00%
Non-operating revenues (expense):				
Investment earnings(expenses)	53,647	-22.07%	(109,537)	20.40%
Gain(loss) on sale of capital assets	-	0.00%	587	-0.11%
Interest expense	(220,802)	90.83%	(358,188)	66.72%
Rental income	25,200	-10.37%	24,113	-4.49%
Other income(expense), net	(101,147)	41.61%	(93,818)	17.48%
Total non-operating revenues(loss), net	(243,102)	100.00%	(536,843)	100.00%
Net income(loss) before capital contributions	638,346	100.00%	(1,005,957)	100.00%
Capital contributions:				
Capital grants-state	553,187	96.44%	359,759	100.00%
Capital grants-local	20,400	3.56%	-	0.00%
Total capital contributions	573,587	100.00%	359,759	100.00%
Change in net position	\$ 1,211,933	100.00%	\$ (646,198)	100.00%

See independent auditors' report

CRESCENTA VALLEY WATER DISTRICT

DETAILED SCHEDULES OF REVENUES, EXPENSES AND CHANGES OF FUND NET POSITION WASTEWATER OPERATIONS, For the Fiscal Years Ended June 30, 2018 and 2017

	2018		2017	
	Amount	Percent	Amount	Percent
Operating revenues:				
User and standby charges	\$ 3,033,860	100.00%	\$ 3,168,022	100.00%
Total operating revenues	3,033,860	100.00%	3,168,022	100.00%
Operating expenses:				
City of Los Angeles wastewater system expense	1,097,781	34.23%	950,537	30.97%
Plant operations:				
Power	612	0.02%	600	0.02%
Plant wages	87,827	2.74%	85,875	2.80%
Utilities	3,025	0.09%	2,881	0.09%
Telephone	-	0.00%	-	0.00%
Maintenance	3,673	0.11%	12,860	0.42%
Insurance- general	114,267	3.56%	108,334	3.53%
Signal system	-	0.00%	2,175	0.07%
Other expense	17,316	0.54%	21,694	0.71%
Total plant operations	226,720	7.07%	234,419	7.64%
Collection system:				
Maintenance	201,659	6.29%	175,752	5.73%
Auto and truck expense	46,769	1.46%	37,090	1.21%
Inspection	2,585	0.08%	-	0.00%
Total collection system	251,013	7.83%	212,842	6.93%

Continued on next page

CRESCENTA VALLEY WATER DISTRICT

DETAILED SCHEDULES OF REVENUES, EXPENSES AND CHANGES OF FUND NET POSITION WASTEWATER OPERATIONS, Continued For the Fiscal Years Ended June 30, 2018 and 2017

	2018		2017	
	Amount	Percent	Amount	Percent
Operating expenses, continued:				
General and administrative:				
Directors' fees	8,190	0.26%	8,100	0.26%
Salaries- statutory officers	119,806	3.74%	174,752	5.69%
Salaries- general office	303,504	9.46%	331,265	10.79%
Retirement (CalPERS)	488,134	15.22%	215,329	7.02%
Payroll taxes	87,342	2.72%	88,647	2.89%
Engineering and drafting	103,469	3.23%	114,116	3.72%
Accounting	7,500	0.23%	5,757	0.19%
Legal	32,612	1.02%	14,513	0.47%
Administrative	6,100	0.19%	18,700	0.61%
Insurance- general	13,142	0.41%	13,958	0.45%
Insurance- group	265,429	8.28%	502,553	16.37%
Maintenance	6,152	0.19%	5,452	0.18%
Computer and supplies	46,880	1.46%	39,961	1.30%
Utilities	6,770	0.21%	6,400	0.21%
Telephone	26,943	0.84%	36,783	1.20%
Printing and postage	34,072	1.06%	30,257	0.99%
Bad debt	-	0.00%	-	0.00%
Training	4,109	0.13%	3,371	0.11%
Other	71,671	2.23%	61,571	2.01%
Total general and administrative	1,631,825	50.88%	1,671,485	54.46%
Total operating expenses	3,207,339	100.00%	3,069,283	100.00%
Operating income(loss) before depreciation	(173,479)	100.00%	98,739	100.00%
Depreciation expense	(572,211)	100.00%	(688,640)	100.00%
Operating loss	(745,690)	100.00%	(589,901)	100.00%
Non-operating revenues (expense):				
Investment earnings	283	-0.44%	105	0.52%
Gain(loss) on sale of capital assets	-	0.00%	587	2.89%
Rental income	8,400	-13.16%	8,038	39.63%
Other income(expense), net	(72,496)	113.61%	11,551	56.95%
Total non-operating revenues, net	(63,813)	100.00%	20,281	100.00%
Loss before capital contributions	(809,503)	100.00%	(569,620)	100.00%
Capital contributions:				
Assessments	69,463	100.00%	111,586	100.00%
Change in net position	\$ (740,040)	100.00%	\$ (458,034)	100.00%

See independent auditors' report

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OTHER INDEPENDENT AUDITORS' REPORT

**INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL
OVER FINANCIAL REPORTING AND ON COMPLIANCE
AND OTHER MATTERS BASED ON AN AUDIT
OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE
WITH GOVERNMENT AUDITING STANDARDS**

Board of Directors
Crescenta Valley Water District
La Crescenta, California

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States, the financial statements of the Crescenta Valley Water District (the District), as of and for the year ended June 30, 2018 and the related notes to the financial statements, which collectively comprise the District's basic financial statements, and have issued our report thereon dated December 14, 2018.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the District's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, we do not express an opinion on the effectiveness of the District's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent or detect and correct misstatements on a timely basis. A material weakness is a deficiency or a combination of deficiencies in internal control such that there is a reasonable possibility that a material misstatement of the financial statements will not be prevented or detected and corrected on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

**INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL
OVER FINANCIAL REPORTING AND ON COMPLIANCE
AND OTHER MATTERS BASED ON AN AUDIT
OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE
WITH *GOVERNMENT AUDITING STANDARDS***

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the District's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit and, accordingly, we do not express such an opinion. The results of our tests disclosed no instances of non-compliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

CliftonLarsonAllen LLP
Glendora, California
December 14, 2018

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – District Engineer
Subject: Discussion on Estimate of Water Demand for FY 19/20 and Next 5-years

Action Item No. 2
February 12, 2019

ACTION ITEM:

Discussion on Estimate of Water Demand for FY 19/20 Budget – Discussion on the estimated water demand for FY 19/20 and the next 5-years as part of the FY 19/20 Budget

BACKGROUND:

As staff begins the budget process for FY 19/20, a key element is the estimate of water demand for the coming year. This estimate is used to determine the projected water sales revenue for the coming fiscal year budget and for estimating revenue for the next 5-year period.

DISCUSSION:

Staff reviews past year water usage, anticipated weather conditions (dry year or wet year), availability of local groundwater and the status of the local economy to estimate water demand projections for FY 19/20 and the next 5 to 10 years. Also, staff reviewed water conservation goals as set by the State including SBX7-7, which is the 20% reduction by 2020, SB606 and AB1668.

SB606 and AB1668

SB606 and AB1668 is the Water Management Planning (WMP) law signed by the Governor in May 2018. The WMP law calls for the implementation of new urban efficiency standards for indoor and outdoor water use that factors local conditions and demographics to establish the amount of water needed in a specific service area for efficient indoor residential water use, outdoor residential water use, as well as commercial, industrial and institutional (CII) irrigation accounts with dedicated meters.

The WMP law states that the State Water Resources Control Board (SWRCB) and Department of Water Resources (DWR) to adopt new standards regulation no later than June 30, 2022, which establishes an indoor water use goal per person per day as shown below.

- 2022 to 2025 55.0 gallons per capita per day (gpcd)
- 2026 to 2030 52.5 gpcd
- 2030 and beyond 50.0 gpcd

The State will work with each water agency to establish an outdoor water use allocation based on lot size and useable “Irrigable area” within the next 2-years.

Staff utilized this information and assumptions for outdoor water use to establish a baseline for meeting the WMP law from FY 2022/23 to FY 29/30, which is shown in Figure 1.

FY 18/19 Water Demand Projections:

Staff, last year at this time, predicted that overall water demand to remain the same for FY 18/19 and to increase by 1% to 2% over the next 5 years. Also, staff anticipates groundwater production to remain at the same current levels and may increase with the rehabilitation of Well 10 and the re-activation of Well 2. These projections were used to anticipate water sales revenue for the FY 18/19 budget.

FY 18/19 Water Demand Actual:

Staff has been charting the District’s water demands from July 2018 to January 2019 and the actual water demands are about 3% less than the projected water demands. December and January were wetter and cooler than last year and demands were 9% less than projected.

This trend may continue for the next two - three months if cooler weather and rainfall continues. Staff has also observed in the last couple of months, the groundwater levels have started to rise, which may be from the groundwater reaching CVWD's wells from the above average rainfall received in 2016/17. In addition, the amount of imported water purchased from FMWD has remained as predicted back in July 2018.

FY 19/20 Water Demand Projections:

Staff utilized information from the past seven (7) months and the current condition of CVWD's groundwater wells to estimate water demands for FY 19/20. As shown in Figure 1 and Table 2 attached, staff is projecting that overall water demand will increase by 3% to 4% per year over the next 5-years. This includes groundwater production increasing about 5% from last year with the addition of Well 2, rehabilitation of Wells 1 & 7 and the slight increase in groundwater levels. It is also anticipated that CVWD will be purchasing Tier 2 imported water from FY 19/20 to FY 23/24. The additional costs for Tier 2 imported water have been factored into the annual FMWD charges.

SB X7-7

The state enacted the Water Conservation Act of 2009, which is also called SB X7-7 that calls for a 20% reduction in water use by the year 2020. CVWD's established a goal in 2009 for 20% reduction by 2020 of 5,150 ac-ft per year. As of FY 18/19, CVWD has met this challenge by reducing water demand by over 20% of CVWD's goal.

SB606 and AB1668 (Water Management Planning (WMP))

Staff performed an analysis of the WMP based on the State's goal of reducing indoor water use and assumptions for the percentage of outdoor residential water use for the period starting in 2022. The analysis showed that staff's projects for water demand from FY 19/20 to FY 23/24 are below the State's goal. Staff adjusted the water projection from FY 24/25 to FY 29/30 to meet the WMP, however, as SWRCB and DWR finalize the WMP and provide more detailed information, these projects will change.

RECOMMENDATION:

The information provided by staff is for discussion and comments from Board members to give staff direction on estimated water demand projects for FY 19/20.

ENVIRONMENTAL REVIEW:

N/A

FUNDING AVAILABILITY:

N/A

Prepared by:



David S. Gould, P.E.
District Engineer
Attachments:

Submitted by:



Nem Ochoa
General Manager

1. Chart 1 – FY 19/20 – Water Demand Estimate
2. Table 2 – FY 19/20 – Water Demand Estimate

Chart 1: Water Demand Projections - FY 00/01 to FY 29/30

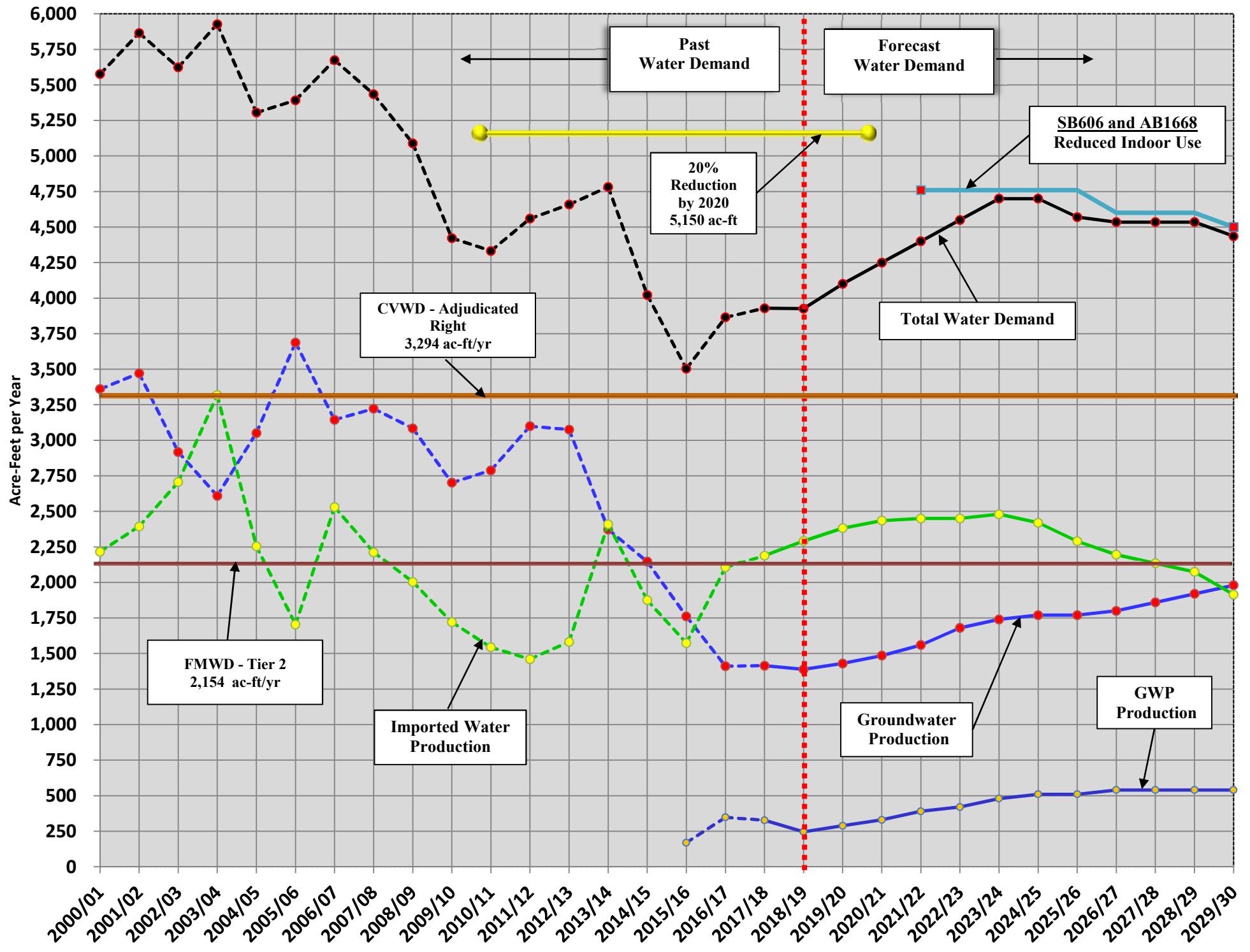


Table 2:
10-year Water Production Estimate
Based on:
Slow Recovery of Verdugo Basin
3% to 4% annual increase in water production over next 5 years

Fiscal Year	Groundwater (ac-ft)	GWP (ac-ft)	FMWD (ac-ft)	Total Water Production (ac-ft)	Percent Increase or Decrease
2013/14	2,372	0	2,410	4,782	2.7%
2014/15	2,146	0	1,876	4,022	-15.9%
2015/16	1,761	169	1,573	3,504	-12.9%
2016/17	1,411	348	2,107	3,865	10.3%
2017/18	1,414	327	2,188	3,929	1.7%
2018/19 (Projected)	1,388	246	2,291	3,926	-0.1%
2019/20 (Budget)	1,430	288	2,382	4,100	4.4%
2020/21	1,485	330	2,435	4,250	3.7%
2021/22	1,560	390	2,450	4,400	3.5%
2022/23	1,680	420	2,450	4,550	3.4%
2023/24	1,740	480	2,480	4,700	3.3%
2024/25	1,770	510	2,420	4,700	0.0%
2025/26	1,770	510	2,290	4,570	-2.8%
2026/27	1,800	540	2,195	4,535	-0.8%
2027/28	1,860	540	2,135	4,535	0.0%
2028/29	1,920	540	2,075	4,535	0.0%
2029/30	1,980	540	1,915	4,435	-2.2%

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 3
February 12, 2019

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – District Engineer
Subject: TTHM Mitigation and Disinfection Process Upgrades, Project E-995

ACTION ITEM:

TTHM Mitigation and Disinfection Process Upgrades, Project E-995 - Discussion and update of CVWD's TTHM study and disinfection process upgrades

BACKGROUND:

The District uses chlorine as a disinfectant to treat drinking water. Chlorine can create disinfection by-products during treatment, known as total Trihalomethanes or TTHMs, as chlorine reacts with naturally occurring organic matter in imported water supplied by FMWD/MWD from either the Colorado River (CRW) or the State Water Project (SWP). Typically, the water supply blend for CVWD is 60% groundwater and 40% imported water. With the on-going localized drought, CVWD's water supply blend has shifted to 37% groundwater and 63% imported water. CVWD has seen a rise in the concentration of TTHMs because CVWD is using more imported water as groundwater levels have not yet recovered from the latest drought. This, coupled with additional chlorine needed for breakpoint chlorination in the system, has led to an increase in TTHMs in the distribution system.

DISCUSSION:

Operational Changes:

Water system operational changes continued including reducing amount of water storage to lower the TTHM levels as shown on the attached charts. The TTHM levels shown have remained under or near the target level of 64 ug/L due to decreasing water demands and lower winter temperatures.

Construction – Chloramine Conversion:

Installation of Ammonia Injection System for Chloramine Conversion:

The following are tasks planned for the next few weeks by staff and its consultants:

- o Field crews to begin installing conduits and piping at Mills Plant.
- o Field crews working on upgrading/repairing blow-offs prior to dead-end water main flushing
- o Staff and APEX finalizing a scope of work for SCADA integration for new chlorine analyzers
- o Staff reviewing Hazen and Sawyer 30% design submittal for the six (6) new chlorine analyzers.
- o Staff working on plan to upgrade the chlorination system at Pickens Canyon Tunnel.
- o Staff and WQTS to meet to finalize submittal to DDW for amending permit.

Water Distribution Flushing:

Staff and ValveTek to meet on February 19 to discuss the project schedule. ValveTek to start on February 26, 2019, includes a public demonstration near the Glenwood Plant and the work completed by early May 2019.

PROJECT SCHEDULE:

Project Schedule - Installation of Ammonia Injection System:

Staff has updated the project schedule based on the lead-time for the ammonia skids and the precast concrete vault provided by the vendors.

- o Ammonia skids delivered around February 27, 2019
- o Precast concrete vault delivered around April 15, 2019.
- o CVWD's crews will first work on installing the ammonia equipment at the Mills Plant and should be completed by the middle of March 2019.
- o Work at Glenwood Plant will start in early April 2019 and completed by early May 2019.

Project Schedule – Conversion to Chloramines:

Staff has reviewed the TTHMs Mitigation Option Decision Tree provided by WQTS, which set specific dates for converting to chloramines based on TTHM levels in the reservoirs. The next compliance sampling for the 2019 1st quarter is set for February 19, 2019 and the current TTHM levels are below the target level of 64 ug/L.

Staff has previously discussed its concerns about the TTHM levels increasing during the summer of 2019 due to high demands, temperature and reduced groundwater. At this time, staff is planning on late spring 2019 (May or June) to start the disinfection conversion to chloramines.

Staff and its consultants are working with the Division of Drinking Water (DDW) to amend the District's permit to operate. Staff is planning to submit permit request with supporting data to DDW in March 2019 and amendment to the permit completed by the end of April 2019.

Past Actions:

- o August 14, 2018
 - Discussion by Dr. Issam Najm of WQTS on TTTMs and Chloramines.
 - Awarded contract to WQTS for \$10,000 for initial study and evaluation.
- o August 28, 2018
 - Awarded contract to WQTS for \$99,800 for chloramine conversion, public outreach, staff and operator training, Department of Drinking Water (DDW) permitting support, development of necessary mitigation plans, and preparation of 30% design plans.
 - Awarded contract to Hazen and Sawyer for \$9,971 to perform bench testing of CVWD's source water to determine proper breakpoint chlorination and formation of TTHMs.
- o September 11, 2018
 - Staff, worked with WQTS and CV Strategies to mail out public information brochures with a list of frequently asked questions.
 - Staff posted information on website and articles in the CV Weekly and Glendale Newspress.
- o September 15, 2018 – Public Workshop at the Glenwood Plant
- o September 25, 2018
 - Authorized General Manager to select and negotiate with consultants and contractors for the installation of chloramination systems at the Glenwood and Mills Plants for \$410,000.
 - Award contract to John Robinson Consulting (JRC) for \$45,225 for contract and construction administration for the new ammonia injection system.
 - Amended contract to WQTS for \$44,240 for additional design work by Carollo Engineers.
- o October 9, 2018
 - Office & field staff trained on the nitrification and chloramines processes.
 - Carollo Engineers submitted preliminary 30% design plans for review.
- o October 23, 2018
 - Site walk at Glenwood and Mills Plants to determine location of ammonia injection skids, ammonia injection conduits, and SCADA and electrical conduits.
 - JRC prepared and sent out a request for quote for purchase of two (2) ammonia injection pump skids.
 - Grace Environmental Services (Grace) provided a proposal for a system operator to assist staff during the chloramine conversion process in the distribution system.
 - Site visit from Apex Manufacturing Solution (APEX), on the design and installation of SCADA equipment and integration at Glenwood and Mill Plants.
 - Met with Hazen and Sawyer on design and installation of new chlorine analyzers at six (6) locations to provide additional monitoring after conversion to chloramines.
- o November 6, 2018
 - Field crews potholed the 14-inch water main at the Glenwood Plant for depth and location for the ammonia injection concrete vault.
 - Awarded contract and ordered the concrete vault from Jensen Precast for \$36,775 at the Glenwood Plant and estimated delivery is 8 – 10 weeks after approval of shop drawings.
 - Awarded contract and ordered ammonia injection pump skids from Cortech Engineering for \$29,850 and estimated delivery in 8 – 10 weeks after approval of shop drawings.
 - 30% design plans were reviewed and sent back to Carollo Engineers for final edits.
 - Awarded contract to BrikArt Construction for \$7,011 to install concrete pad at Mills Plant.
 - Awarded contract to APEX for \$47,725 for the design and integration of SCADA equipment at Glenwood and Mill Plants.

- o November 20, 2018
 - Authorized General Manager to select and negotiate with consultants and contractors for the operations and maintenance for the new chloramination systems at a cost not to exceed \$500,000.
 - BrikArt Construction completed the concrete pad at the Mills Plant.
 - Awarded contract to Hazen and Sawyer for \$53,255 for design services for the installation of six (6) new chlorine analyzers.
 - Awarded contract to Core-Rosion and ordered a 405-gal tank with level indicator sensor at Mills Plant for \$7,153.
 - Awarded contract to ValveTek Utility Services (Valvetek) to perform dead-end water main flushing for \$131,000.
 - Awarded contract to Hopkins Technical Products to upgrade seven (7) existing ProMinent chlorine analyzers for \$32,870.
 - Awarded a contract to Hach, Inc for new seven (7) new chlorine analyzers and upgrade five (5) existing chlorine analyzers for \$91,560.
- o December 12, 2018
 - Shop drawings from Cortech Engineering for the two (2) ammonia skids and from Core-Rosion for the 405-gal ammonia tank were reviewed by JRC and sent back with comments.
 - Staff provided comments on the Nitrification Monitoring & Control Plan to WQTS.
 - JRC submitted plans to Glendale Fire Department for permits for Glenwood and Mills Plants.
 - Staff met with Medora Corp to discuss installing new mixers in reservoirs to maintain chloramine residual and portable chlorine injection systems.
 - Field crews started working on upgrading/repairing blow-offs for dead-end water main flushing.
- o January 8, 2019
 - Delivery of concrete vault from Jensen Precast delayed due to shop drawing revisions and current workload at Jensen Precast. Anticipated delivery date – late March 2019.
 - Staff and WQTS met to discuss updating CVWD's water quality distribution sampling plan for submittal to DDW for approval.
 - Staff met for a kick-off meeting with Hazen and Sawyer on the design of six (6) new chlorine analyzers.
 - Glendale Fire Department determined no permits are required for the installation of the ammonia injection system and will issue a refund fees.
 - Field crews continued working on upgrading/repairing blow-offs for dead-end water main flushing
 - Finalized shop drawings for ammonia skids with Cortech Engineering. Anticipated delivery date – mid February 2019.
 - Staff purchased SCADA equipment from Royal Industrial Solutions
 - Staff and APEX continue meeting on SCADA integration for the new disinfection process
- o January 22, 2019
 - JRC finalizing costs with Univar for supplying liquid ammonia sulfate in both mini-bulk deliveries for Mills Plant and in 330-gallon containers at Glenwood Plant.
 - Ammonia Tank for Mills Plant delivered at the end of January 2019
 - Finalized shop drawings for concrete vault. Anticipated delivery date – mid April 2019
 - Ammonia skids from Cortech Engineering – Anticipated delivery date – February 25, 2019
 - Staff and APEX continue meeting on SCADA integration for the new disinfection process

Preliminary Cost Estimate:

Account Description	Amount - 01/22/19	Amount - 2/12/18	Difference
Transfer from MTBE Reserve Fund (9/25/18)	\$500,000	\$500,000	\$0
Transfer from MTBE Reserve Fund - (11/20/18)	\$500,000	\$500,000	\$0
Total Estimated Cost for Project	\$1,000,000	\$1,000,000	\$0
Consultants - Planning, Design & Construction Admin			
WQTS - Planning	\$10,000	\$10,000	\$0
WQTS - Design	\$144,040	\$144,040	\$0
Hazen & Sawyer - Water Quality	\$11,970	\$11,970	\$0
John Robinson Consulting - Project Management	\$45,225	\$45,225	\$0
Grace Environmental Services (3 months part-time service) (Estimate)	\$5,000	\$5,000	\$0
Apex Manufacturing Solution - SCADA programing and integration	\$54,165	\$54,165	\$0
New Chlorine Analyzers - 6 locations - Hazen and Sawyer - Design	\$53,255	\$53,255	\$0
Public Notification - CV Strategies , Printing & Mailing	\$11,168	\$11,168	\$0
WQ Sampling - 7/1/18 to 12/31/18	\$65,681	\$65,681	\$0
WQ Sampling - 1/1/19 to 5/1/19 (Estimate)	\$34,560	\$34,560	\$0
Subtotal	\$435,064	\$435,064	\$0
Construction			
Ammonia Injection Skids (2)	\$29,850	\$29,850	\$0
SCADA - Equipment (RTU's, Communication, cabinets, etc..) (Estimate)	\$19,700	\$19,700	\$0
Concrete Pad & Grading at Mills	\$7,011	\$7,011	\$0
Ammonia Inject Vault at Glenwood	\$36,775	\$36,775	\$0
Ammonia Tank at Mills	\$7,153	\$7,153	\$0
Static Mixer & Ammonia Injection System (Estimate)	\$11,000	\$11,000	\$0
Conduits/Wiring/Electrical Materials (Estimate)	\$6,500	\$6,500	\$0
Upgrade Chlorine Analyzers (Mills & Glenwood)	\$14,165	\$14,165	\$0
Safety - Eye Wash, Containment, etc.. (materials only) (Estimate)	\$3,200	\$3,200	\$0
On-site Welding (Estimate)	\$9,000	\$9,000	\$0
Misc (Estimate)	\$5,146	\$5,146	\$0
Subtotal	\$149,500	\$149,500	\$0
Operations & Maintenance			
Upgrade Chlorine Analyzers - 4 locations Equipment (Hach)	\$23,020	\$23,020	\$0
Upgrade Chlorine Analyzers - 7 locations Equipment (ProMinent)	\$36,372	\$36,372	\$0
New Chlorine Analyzers - 6 locations - SCADA Programing (Estimate)	\$65,000	\$65,000	\$0
New Chlorine Analyzers - 6 locations - SCADA Equipment (Estimate)	\$30,000	\$30,000	\$0
New Chlorine Analyzers - 6 locations - Equipment (HACH)	\$54,375	\$54,375	\$0
Dead-ends Water Main Flushing - Valvetek	\$131,000	\$131,000	\$0
Misc (Estimate)	\$5,245	\$5,245	\$0
Subtotal	\$345,012	\$345,012	\$0
Total Cost	\$929,576	\$929,576	\$0
Amount Remaining	\$70,424	\$70,424	

RECOMMENDATION:

It is staff's recommendation to continue with the planning, design and installation of the ammonia injection system, chlorine analyzers and site improvements to conversion to chloramines.

Prepared by:



David S. Gould, P.E.
District Engineer

Attachments:

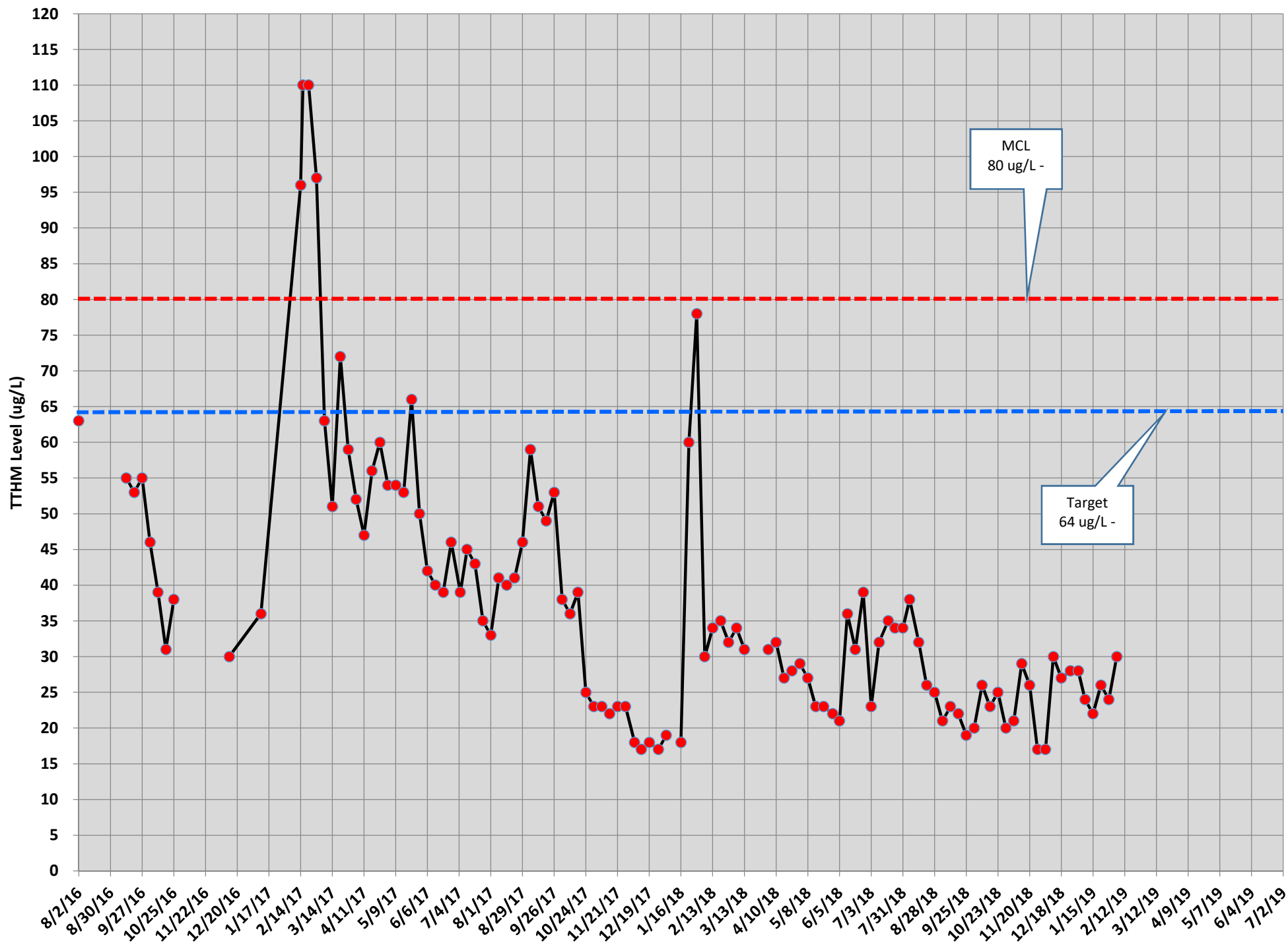
1. TTHM Charts dated 02-05-19

Submitted by:

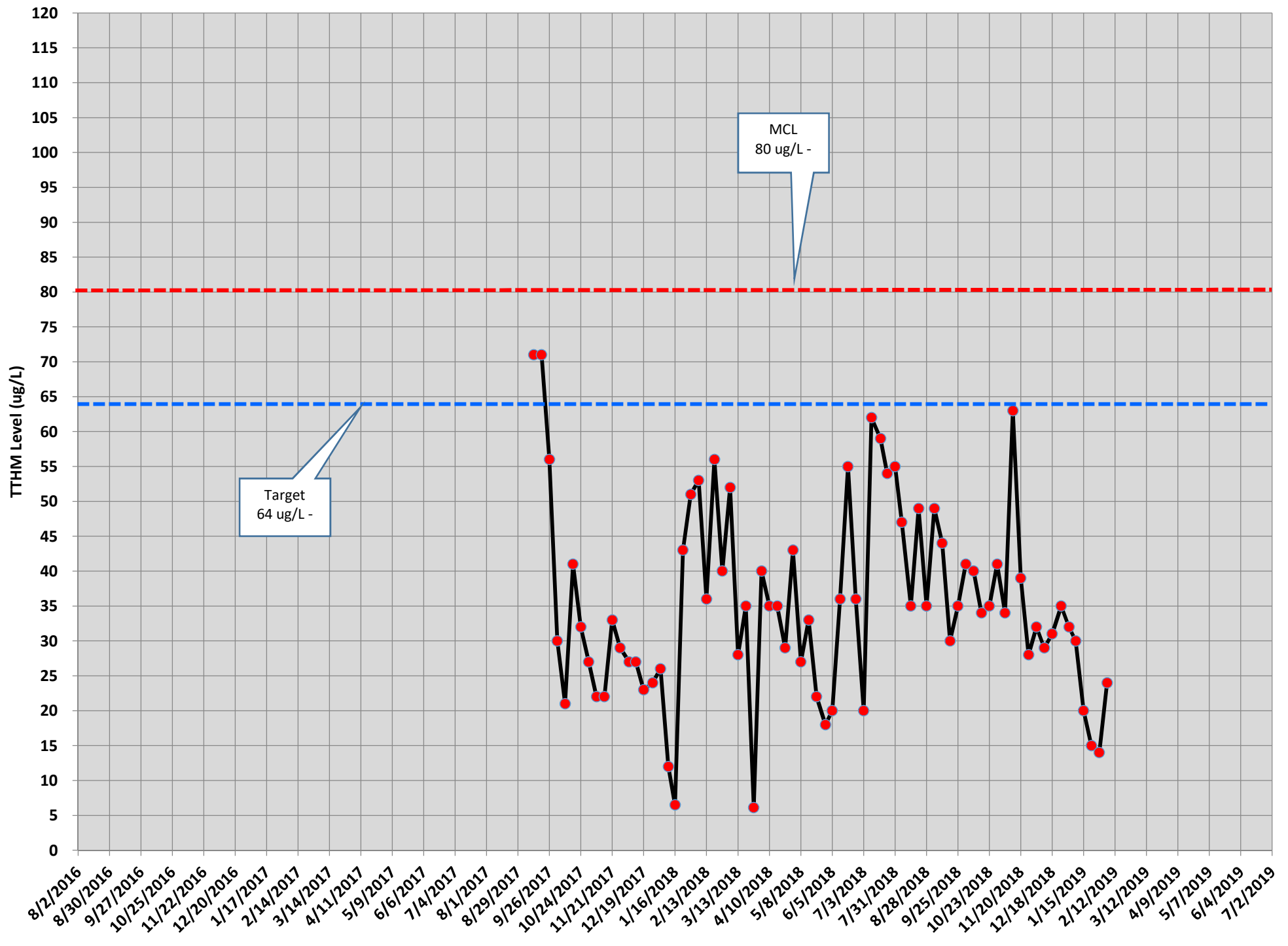


Nem Ochoa
General Manager

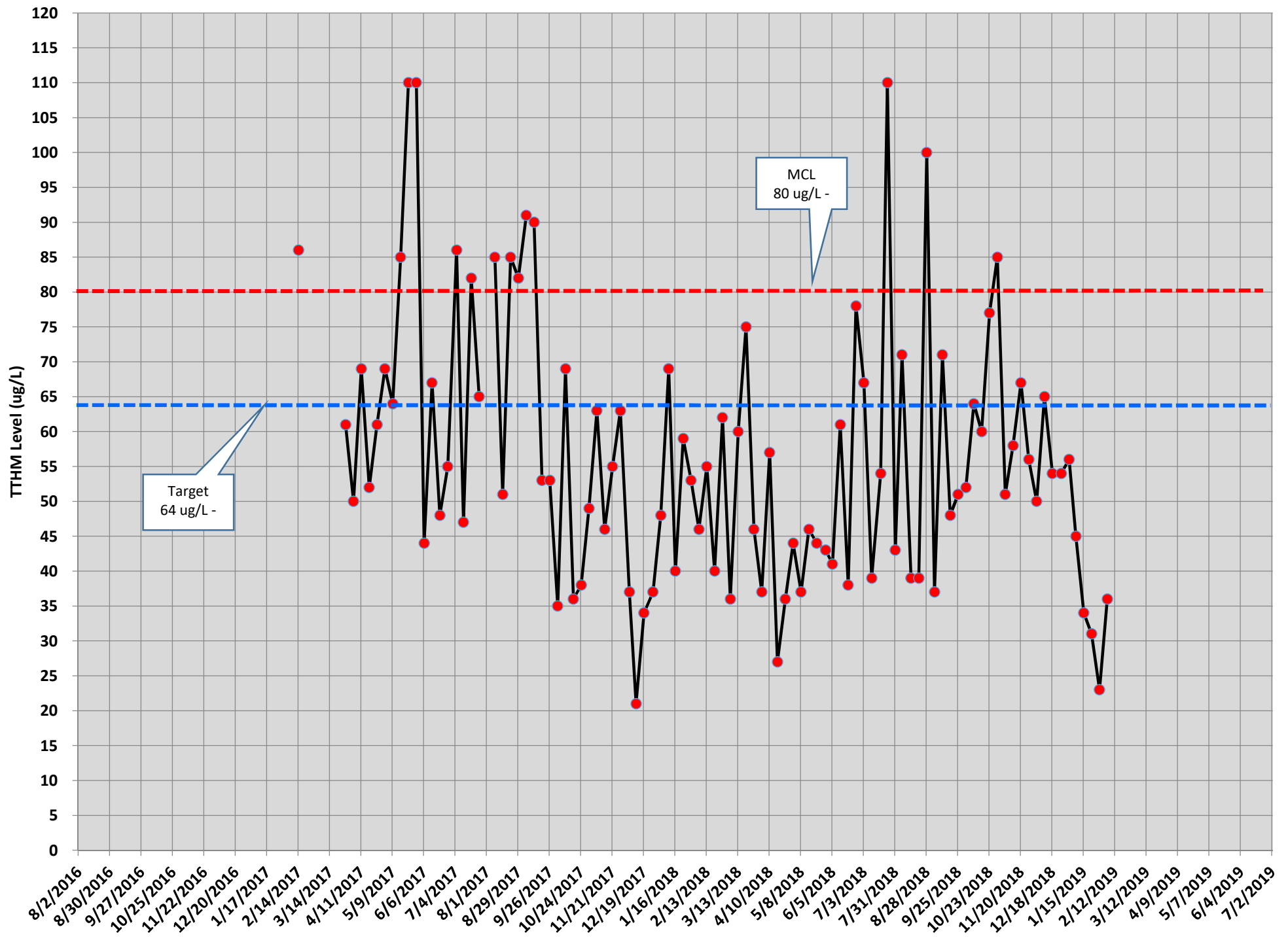
FMWD at Paschall Booster - TTHM's Levels



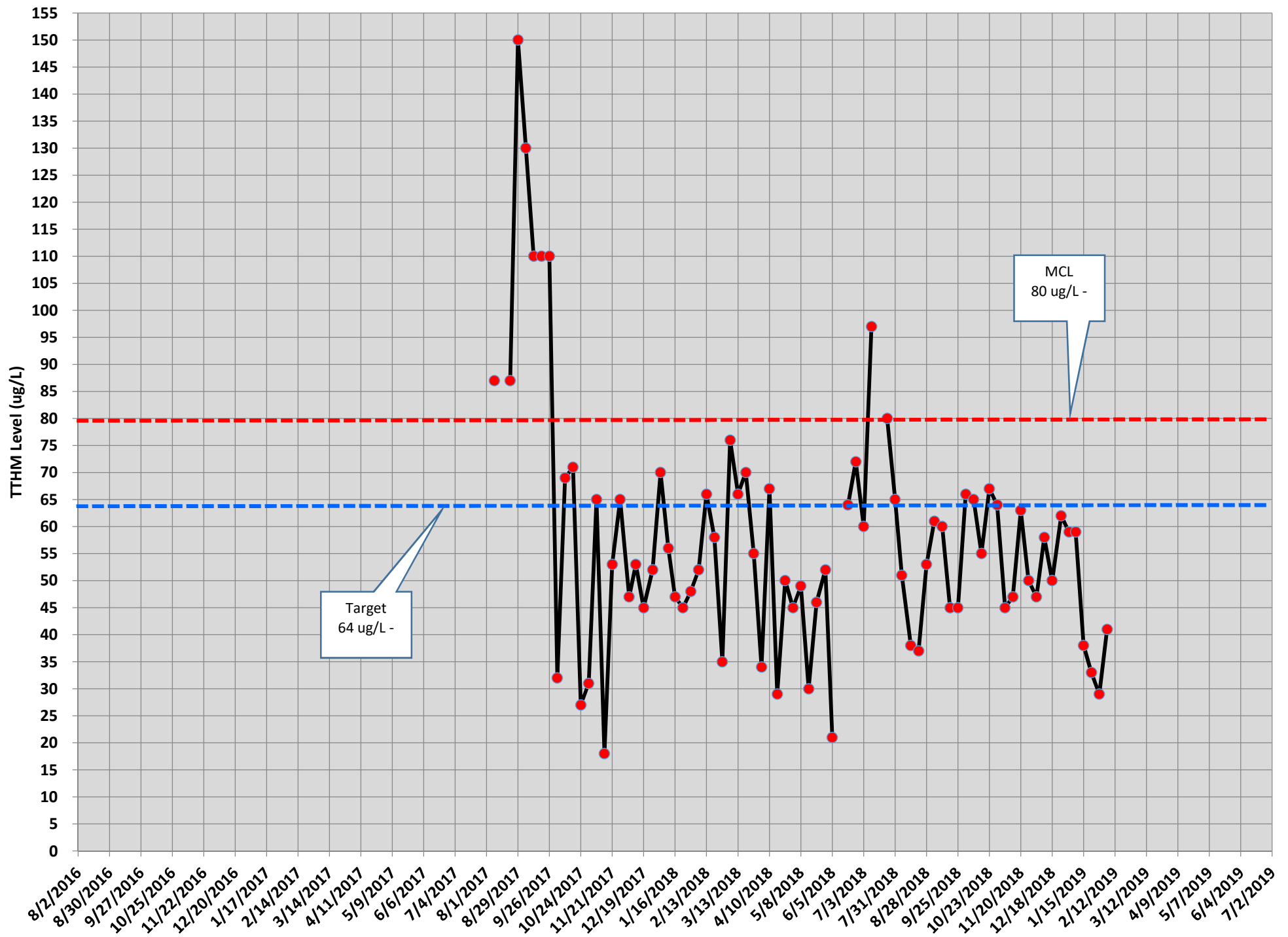
Encinal Reservoir (Zone 1) - TTHMs Levels



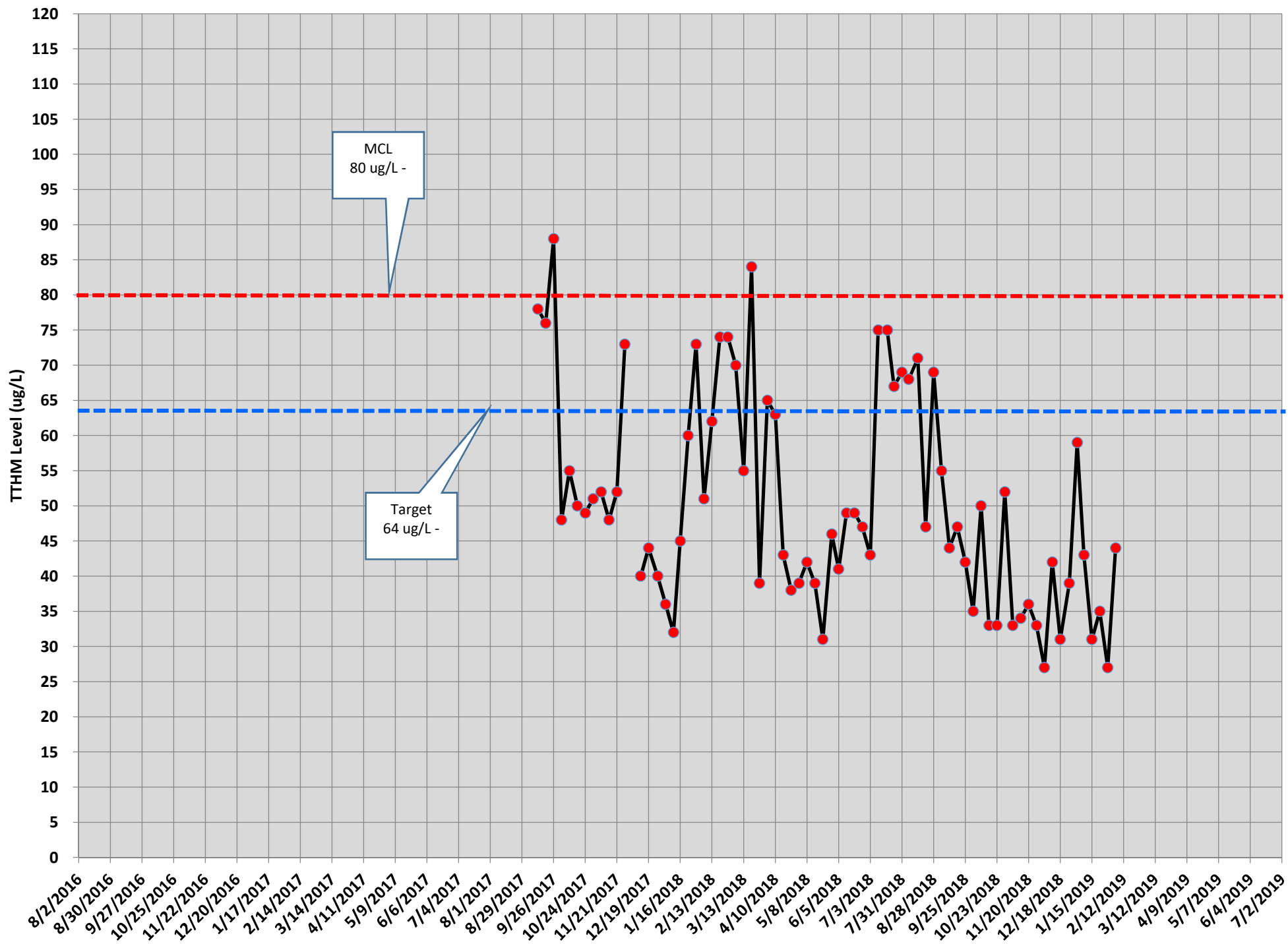
Williams Reservoir (Zone 2) - TTHMs Levels



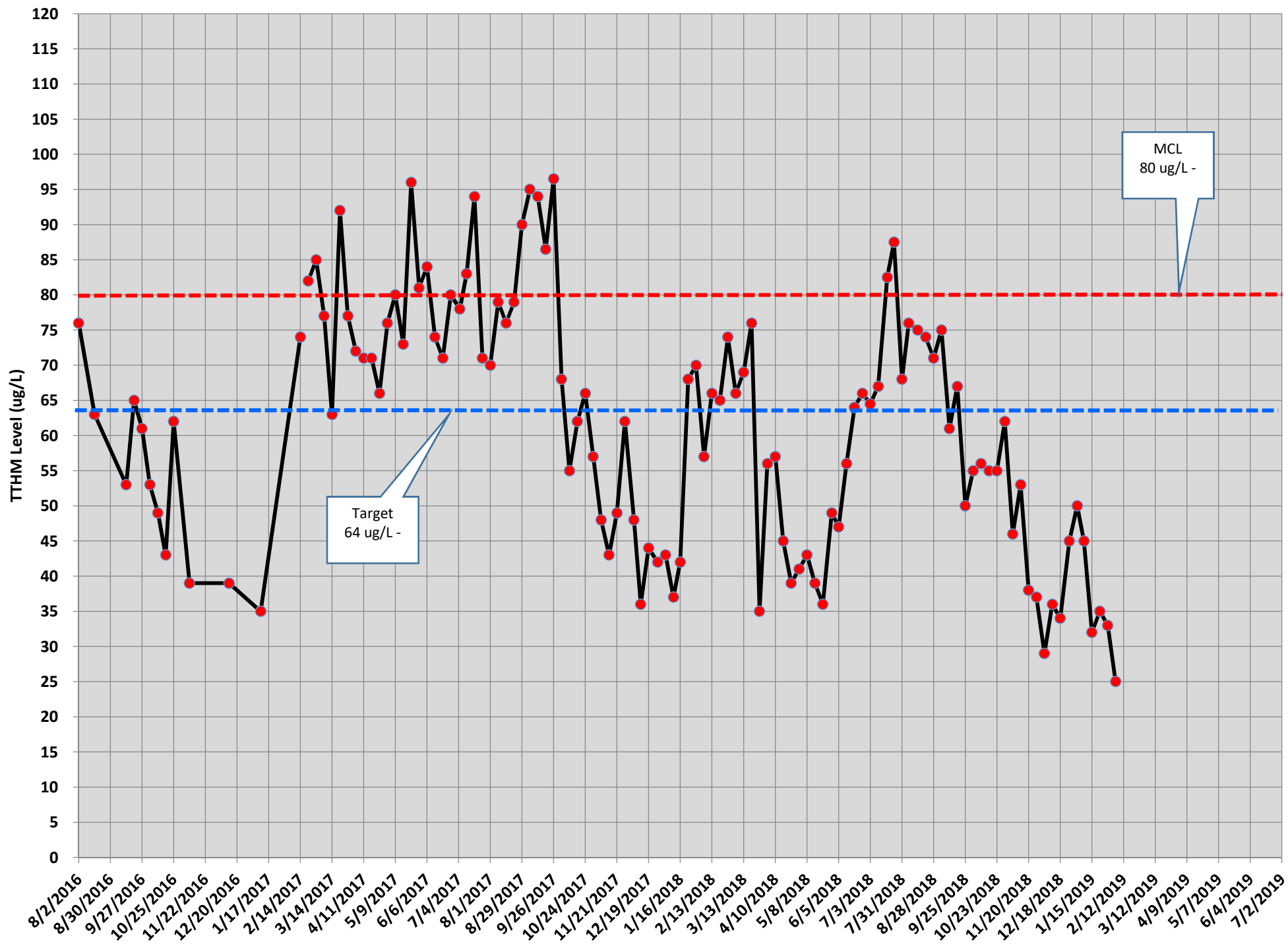
Ordunio Reservoir (Zone 2) - TTHMs Levels



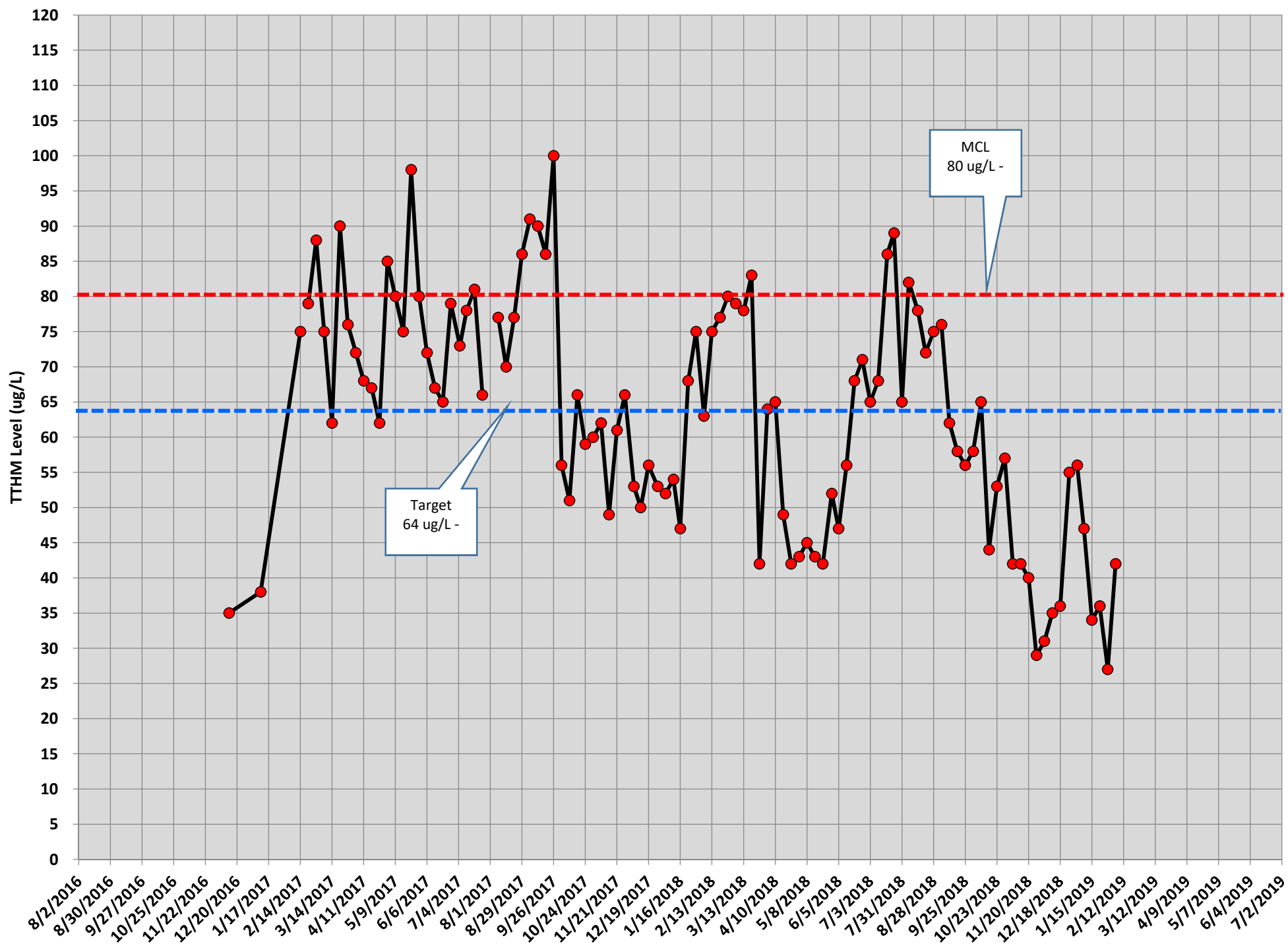
Rosemont Reservoir (Zone 3) - TTHMs Levels



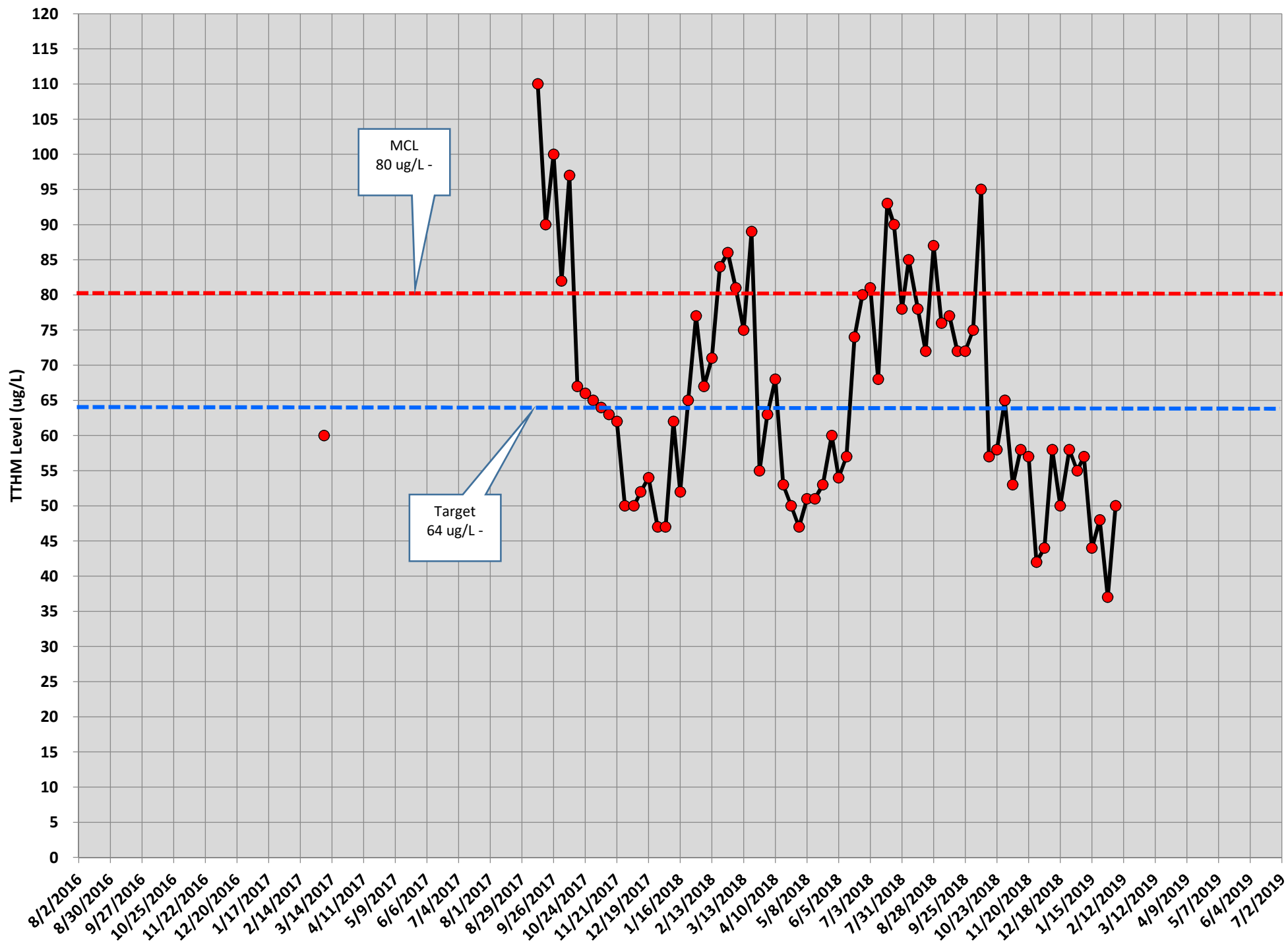
Oak Creek Reservoir (Zone 4) - TTHMs Levels



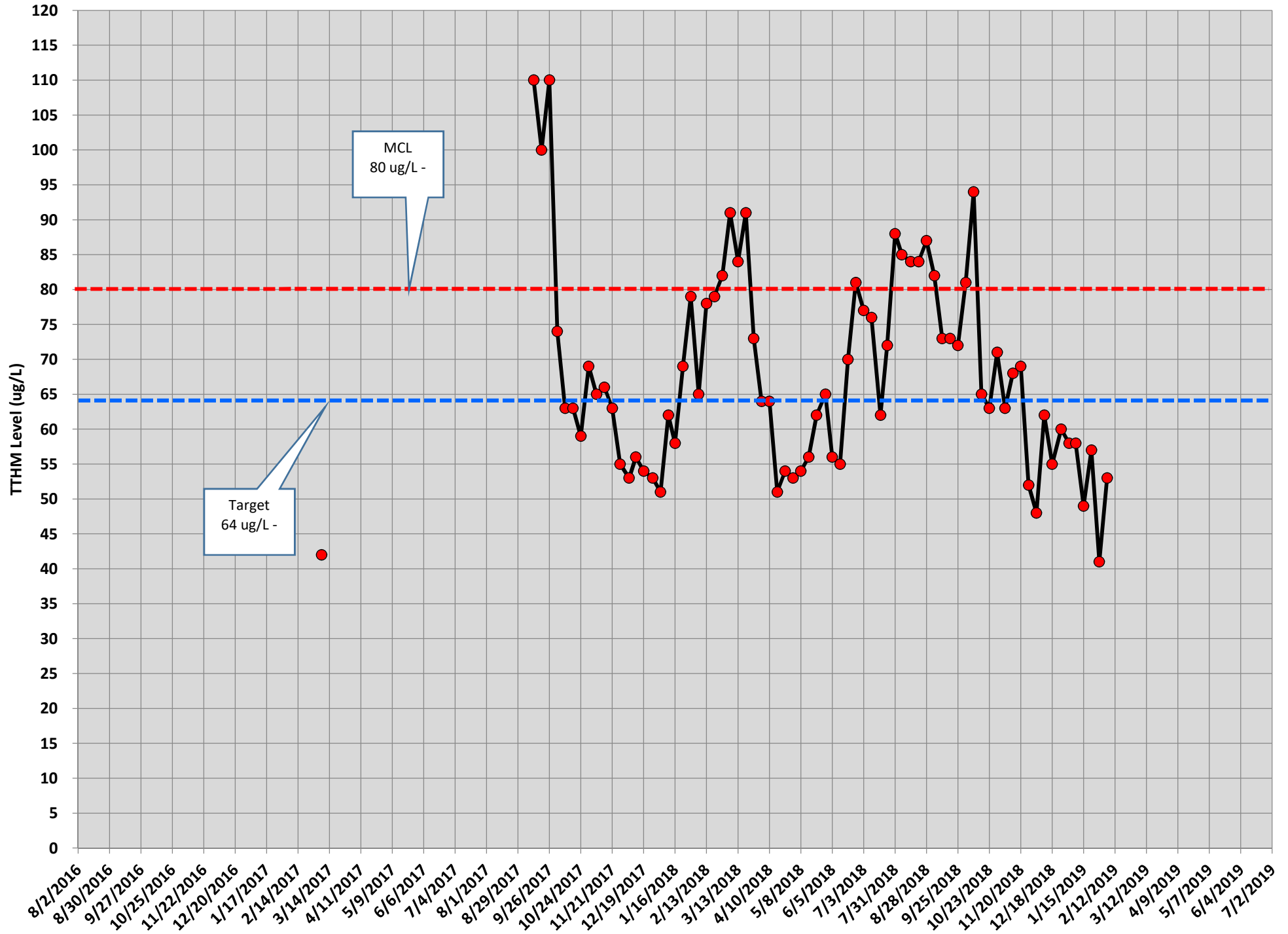
Markridge Reservoir (Zone 5) - TTHMs Levels



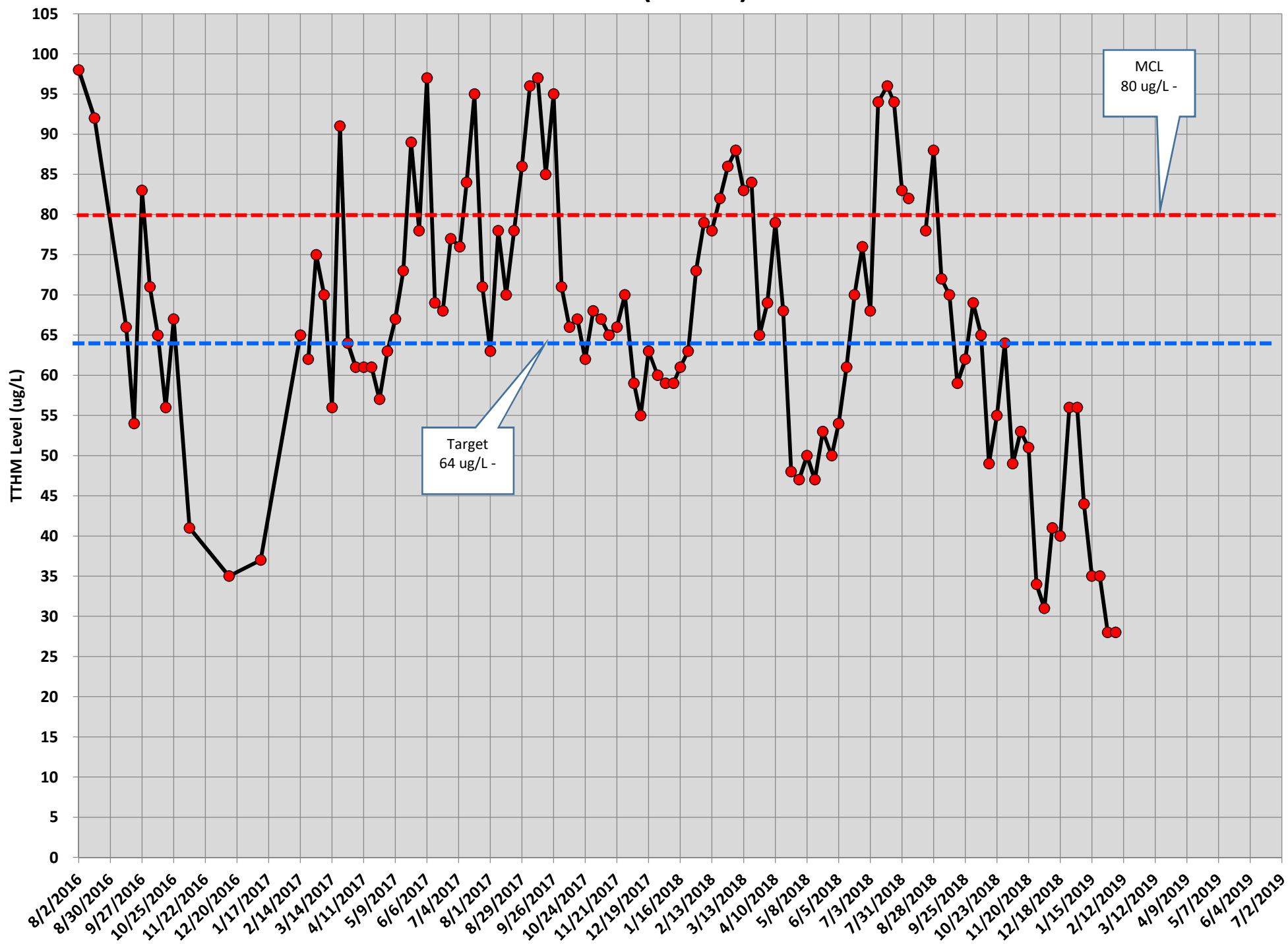
Eagle Canyon Reservoir (Zone 5) - TTHMs Levels



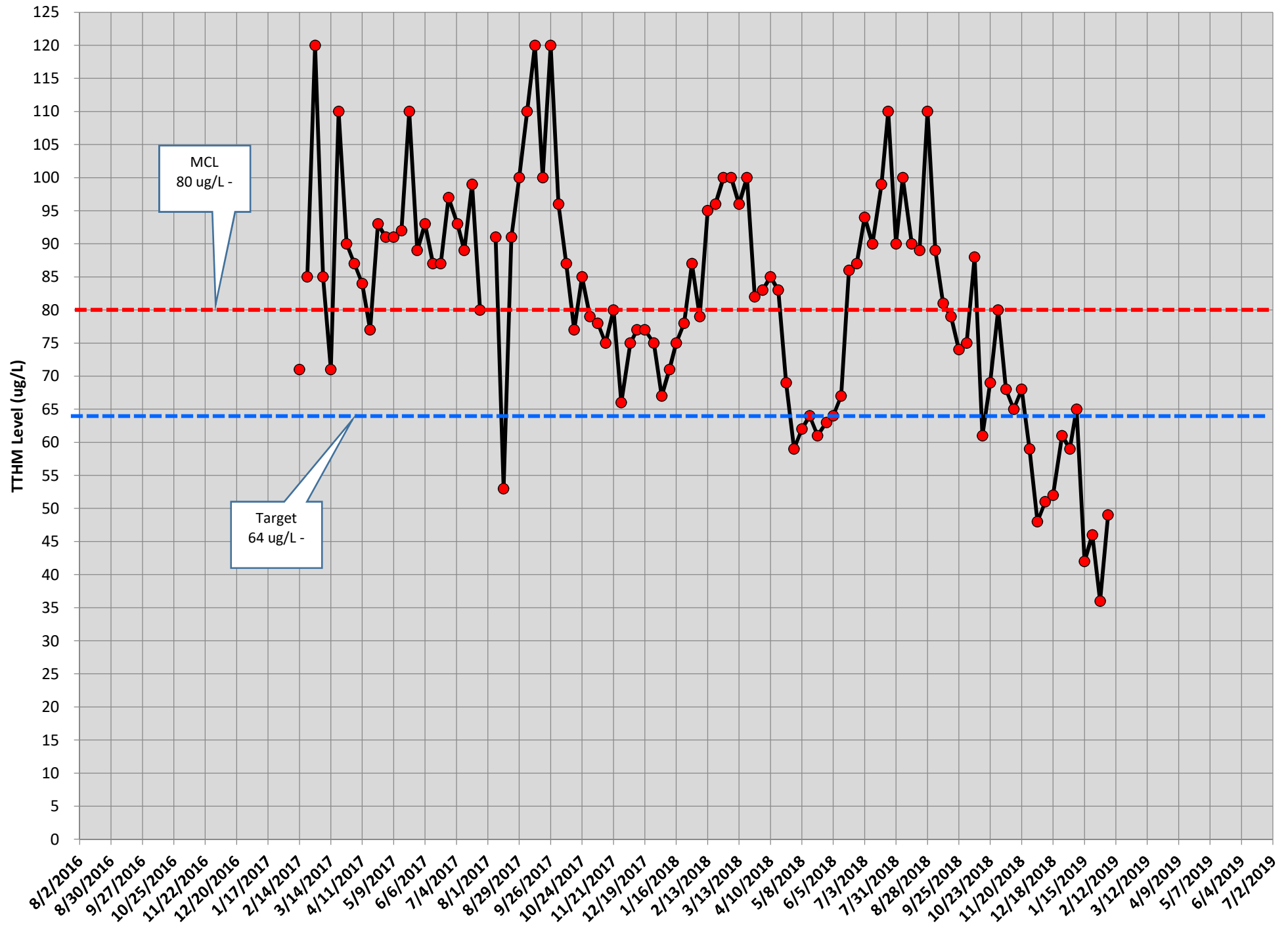
Goss Canyon Reservoir (Zone 6) - TTHMs Levels



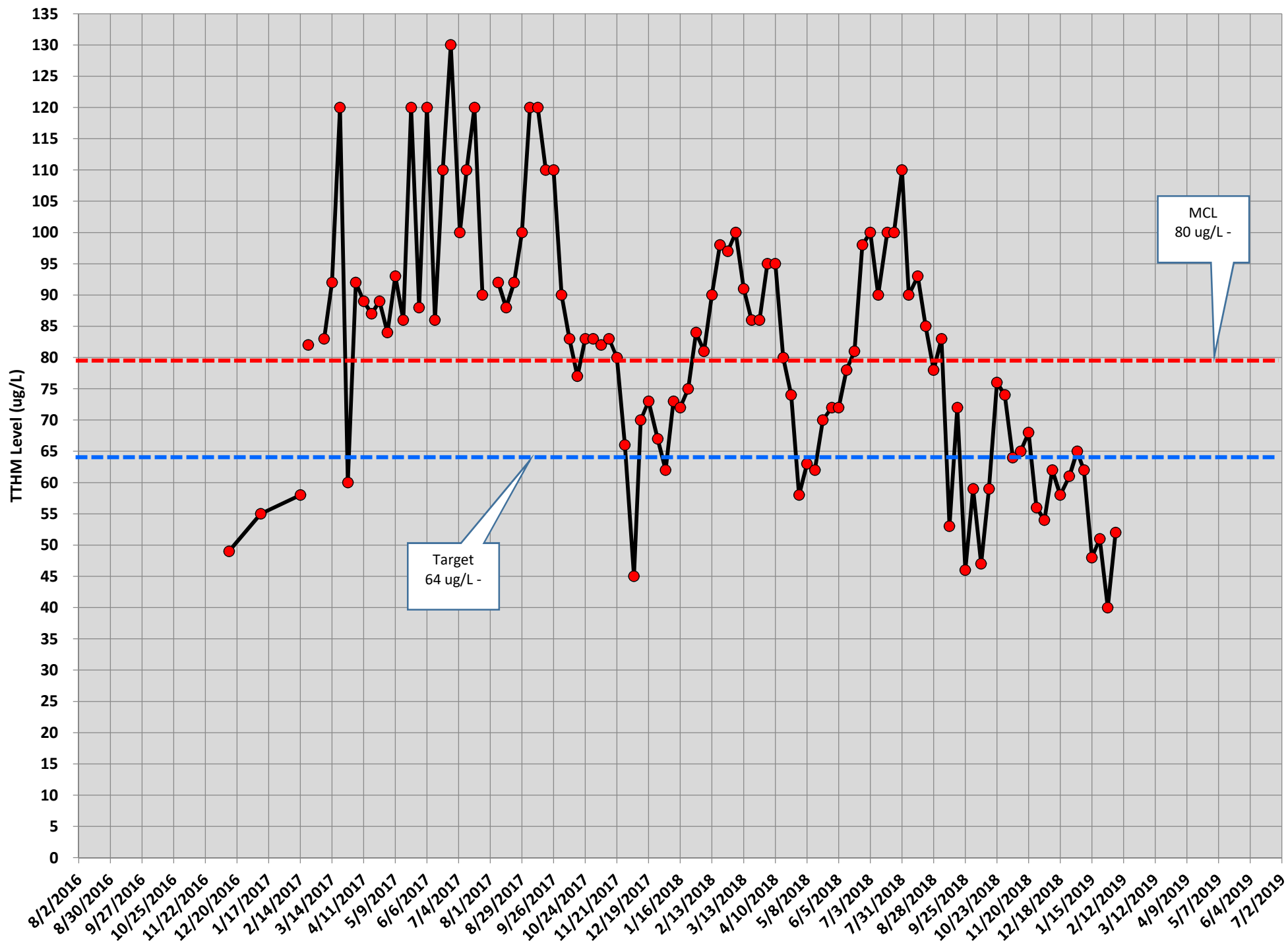
Dunsmore Reservoir (Zone 7) - TTHMs Levels



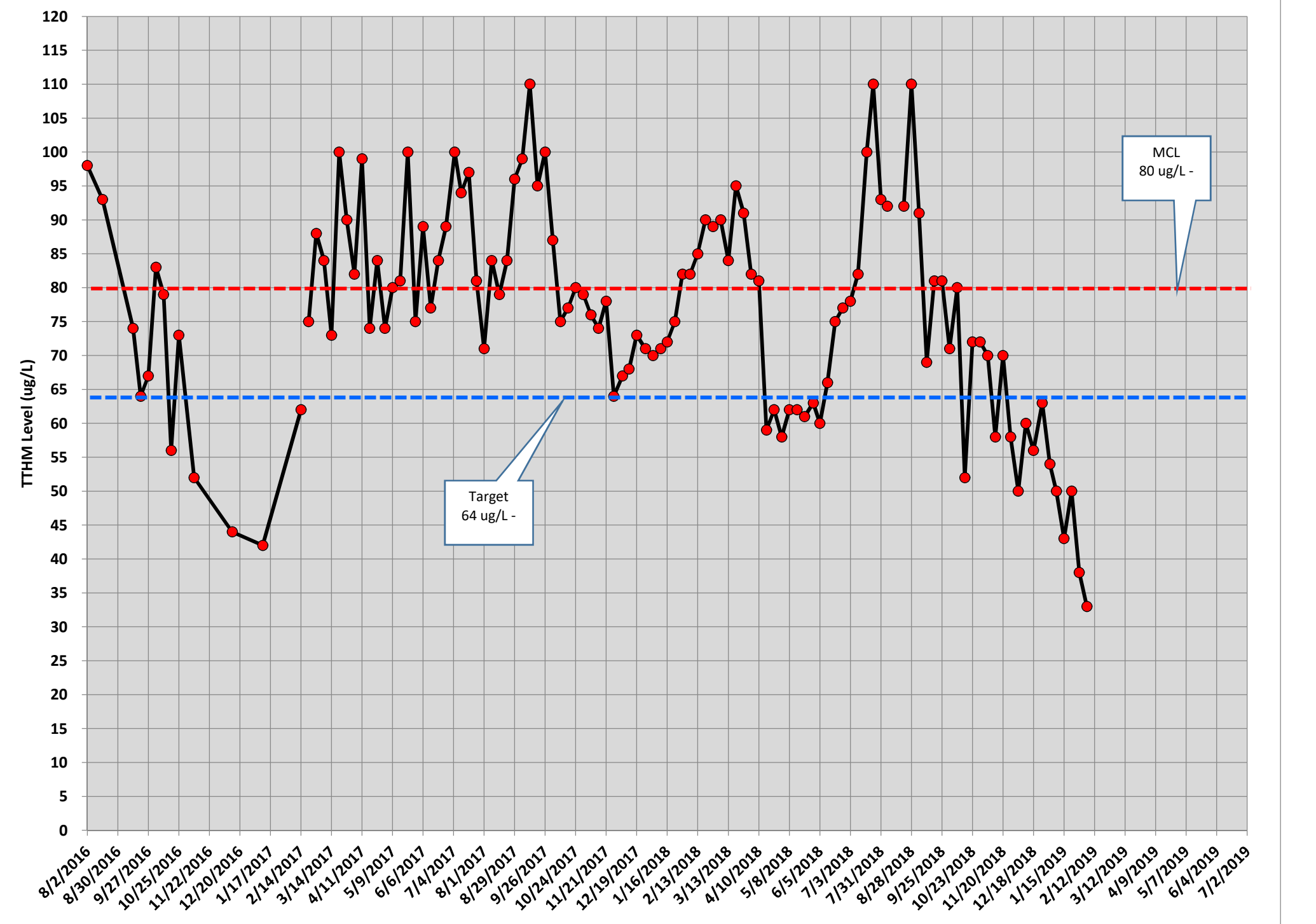
Cresta Heights Reservoir (Zone 8) - TTHMs Levels



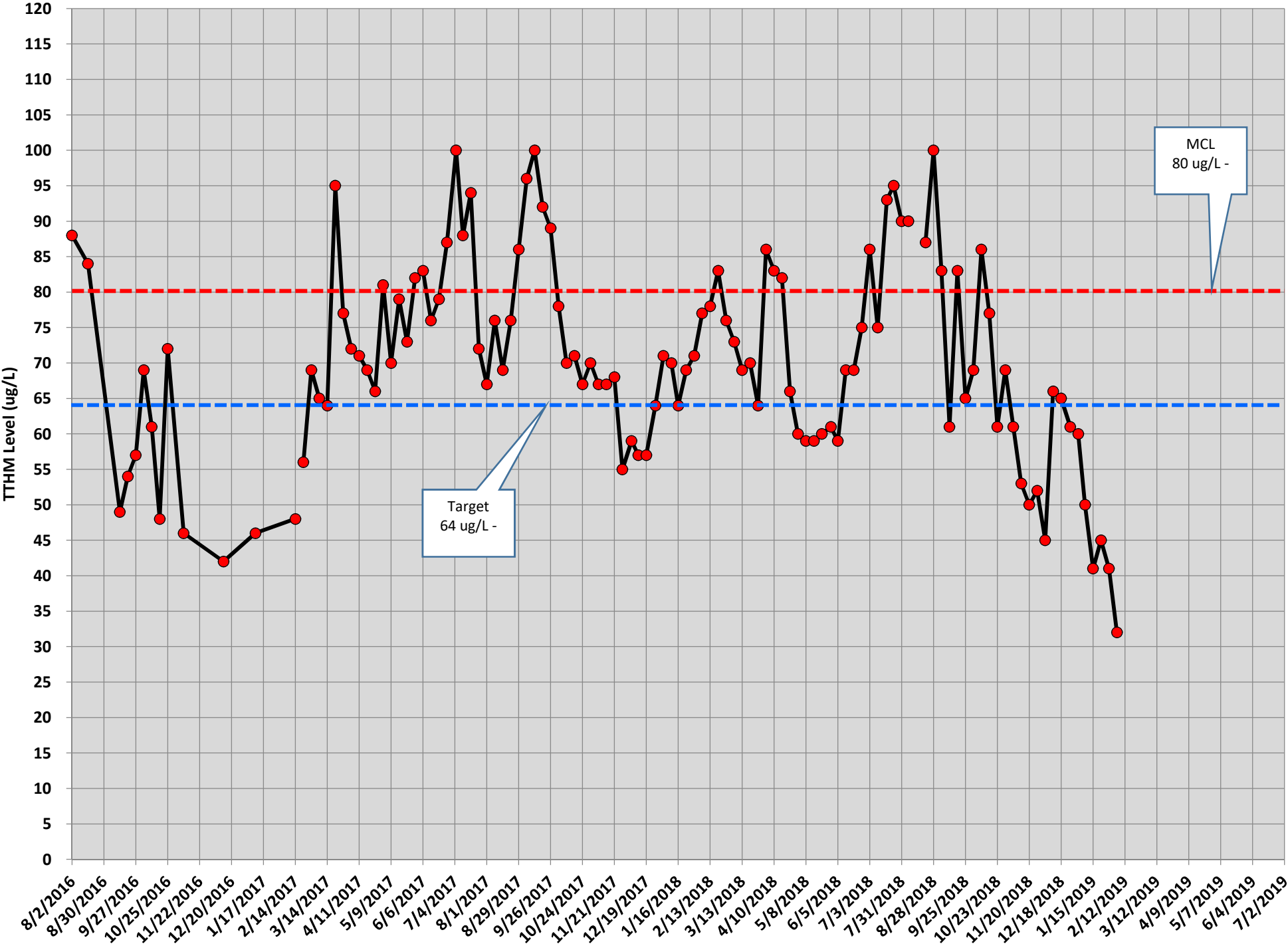
Edmund No. 1 Reservoir (Zone 9) - TTHMs Level



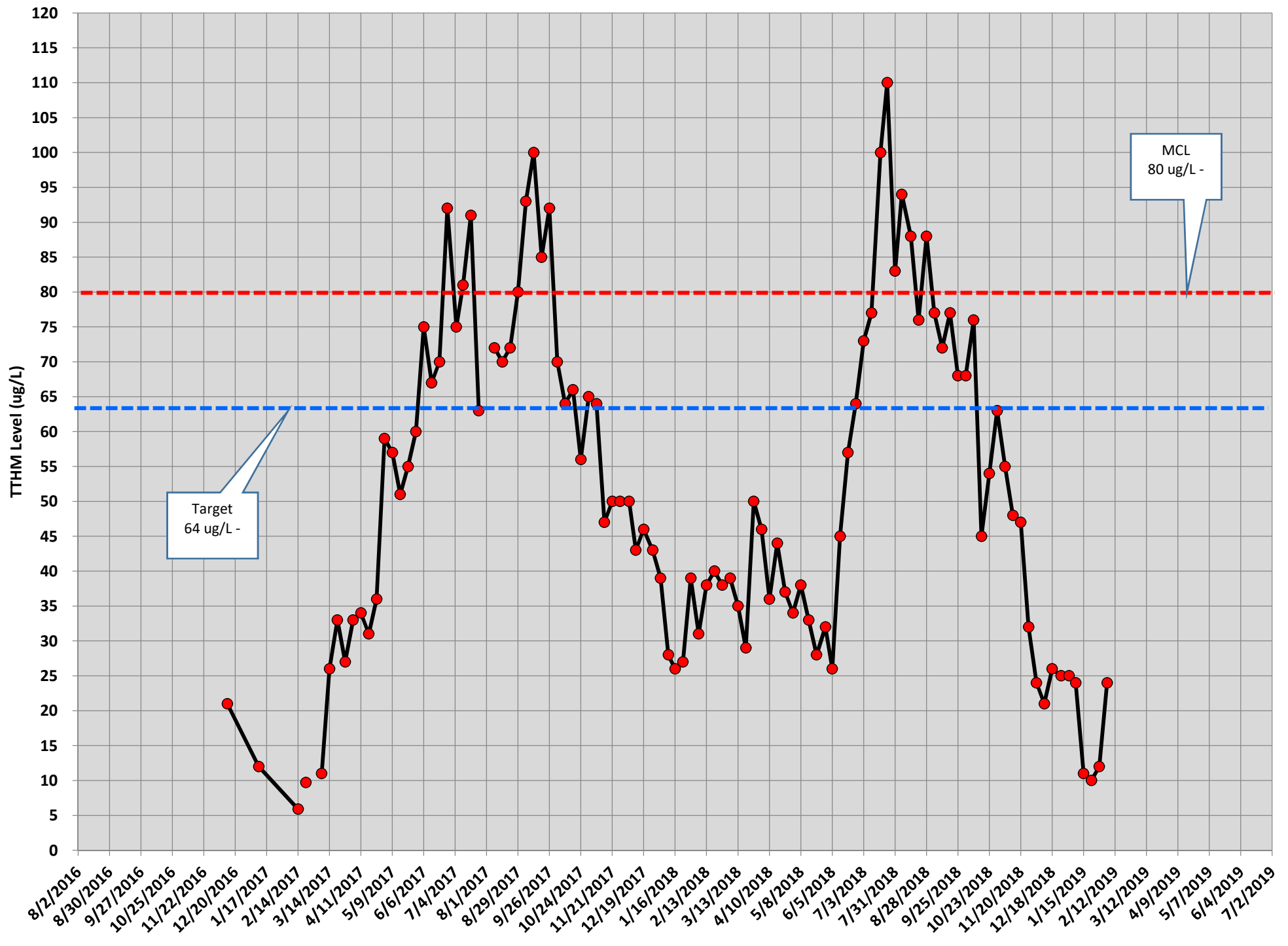
Edmund No. 2 (Zone 9) - TTHMs Levels



Shields Reservoir (Zone 10) - TTHMs Levels



Pickens Reservoir (Zone 11) - TTHMs Levels



NEWS FROM CVWD » Water Main Flushing for Water Quality

By CV Weekly on January 31, 2019 · 0 Comments

Crescenta Valley Water District (CVWD) serves about 33,000 people in an area of approximately four-square miles. Distribution mains (pipes) are used to convey water to homes, businesses and fire hydrants in local neighborhoods.

The District has just under 100 miles of pipe. The water entering distribution mains is of very high quality; however, water quality can deteriorate over time in areas of the distribution mains. Water main flushing is the process of cleaning the interior of water distribution mains by sending a rapid flow of water through the mains that replaces stagnant water.

Flushing maintains water quality in several ways. For example, flushing removes sediments like iron. Although iron does not pose health concerns, it can affect the taste, clarity and color of the water. Additionally, sediments can shield microorganisms from the disinfecting power of chlorine, contributing to the growth of microorganisms within distribution mains.

Flushing helps remove stale water and ensures the presence of fresh water with sufficient oxygen, disinfectant levels and superior levels of taste and smell.

CVWD has retained the services of ValveTek Utility Services to flush specific portions of its distributions lines. ValveTek Utility Services provides a patented alternative method which, unlike conventional flushing practices, discharges no water into the street during operation and improves water quality by filtering the water and placing it back into the distribution system.

During flushing operations in your neighborhood, some short-term deterioration of physical water quality parameters, such as taste and color, though uncommon are possible. The most common problem following water main flushing is a discoloration in the water. Should this occur following flushing operations in your area, run the tap furthest from the front of the house, such as the bathtub, on cold until the water clears. Normal main line flushing operations takes between 30 minutes to one-hour per street, but some areas may take a bit longer.

ValveTek will be working throughout CVWD's service area from mid-February through the end of April. A location schedule will be available online at www.cvwd.com prior to the start of the project.

Please contact Christina Olmedo at (818) 236-4115 with questions or if you would like more information on the CVWD water main flushing schedule.



*NEWS FROM CVWD » Water Main Flushing for Water Quality added by **CV Weekly** on January 31, 2019*

View all posts by CV Weekly →

CRESCENTA VALLEY WATER DISTRICT

General Manager Report

GM Report

February 12, 2019

To: Honorable President and Members of the Board of Directors

From: Nem Ochoa, General Manager

Subject: **General Manager Report**

General Managers Report Topics:

- GM Activities

The following are some highlights in this month's report:

- Water Production
- Engineering Projects
- Operational Activities
- Rainfall/Hydrology Report

STAFFING

As of February 8th the District has gone 1,704 days without a lost time accident.

GENERAL MANAGER ACTIVITIES

Meetings:

Employee Relations Committee Meeting	- January 25 th
Management staff meetings	- January 28 th , February 11 th
Meeting with Foothill MWD	- February 12 th

Submitted by:



Nem Ochoa
General Manager

Engineering and Operations

February 12, 2019
Staff Report

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – District Engineer
Subject: Engineering & Operations – January 2019

1. **Water Production Report**
 - January 1 – 31 - Water production – 51%/49% split – 82.0 MG for the time period
 - Average use – 14.3% less than 2018 and 14.1% less than 5-yr average
2. **Rainfall Update**
 - 8.29” for January 2019
 - Rainfall Total for Rainfall Year 2018/19 – 14.30”
3. **Report on Engineering**
 - **CIP Projects**
 - Oak Creek #1 & #2 Reservoir Rehabilitation
 - Oak Creek #2 – working on interior re-coating
 - Completion date – March 1, 2019
 - Well 1 & 7 Rehabilitation – Starting work March 4, 2019
 - **Nitrate Removal Treatment Facility at Well 2 Project**
 - Waiting on DDW for comments on APTwater’s testing report
 - DDW approval – March 2019
 - **Crescenta Valley County Park Stormwater Recharge Facility Study**
 - John Robinson Consulting and Wood Environmental working on Conceptual Plan
 - Conceptual Plan to be reviewed at April 15, 2019 Engineering Committee Meeting
 - **ULARA**
 - Administrative Committee Meeting – TBA
 - **Grant Program**
 - No Report
 - **Water Meter Replacement Program**
 - Draft AMI Business Case submitted by UtiliWorks and under review by staff
 - AMI Business Case to be reviewed at March 15, 2019 Engineering Committee Meeting
4. **Report on Administrative and Field Operations**
 - **Wells – Status** - Well production capacity – increased to 1.75 MGD after field adjustments to Well 5. Observing small increase in well levels over last two months.
5. **Developer Jobs**
 - No Report
6. **Street Projects**
 - Pennsylvania Paving Project – City of Glendale
 - 210 Freeway to Markridge Road – Under Construction
 - Upgrade Fire Hydrant at Pennsylvania and Orange

7. **Field Maintenance & Operations – January 1, 2018 – January 31, 2018**

▪ **Water Lateral Leaks & Repairs**

4802 Rosemont	5040 Rosemont	3311 Alabama
5246 Briggs	3019 Los Olivos	4908 Pennsylvania
2951 Los Olivos	2123 La Canada Crest	

▪ **Water Main Leaks**

- No Report

▪ **Valve Replacement**

- No Report

▪ **Fire Hydrant Repair**

- No Report

▪ **Booster Pump Maintenance**

- No Report

▪ **Reservoir Maintenance**

- No Report

▪ **Sewer Maintenance - January 1, 2018 – January 31, 2018**

- Program on hold until work at Glenwood and Mills plants completed

CRESCENTA VALLEY WATER DISTRICT

WATER PRODUCTION REPORT

January 1 - January 31, 2019

Well Production:	34,650,864	Gals		
GWP Production:	5,865,000	Gals		
Gravity Production:	1,429,400	Gals	% GW	51%
Purchased Water:				
FMWD:	40,060,424	Gals		
City of Glendale:	0	Gals	% Import	49%
TOTAL:	82,005,688	Gals		
	251.67	ac-ft		
Glenwood Nitrate Water				
Reclamation Plant:*	4,287,000		*Included in Well Production	

WATER DEMAND COMPARISON

Time Period	Average Daily Usage (gals)	Current Period Change
January 1 - January 31, 2019	2,663,439	
January 1 - January 31, 2018	3,108,931	-14.3%
5-yr Average - January 2014 - 2018	3,099,246	-14.1%

RAINFALL: January 1 - January 31, 2019

8.29"

Season-To-Date:

14.30"

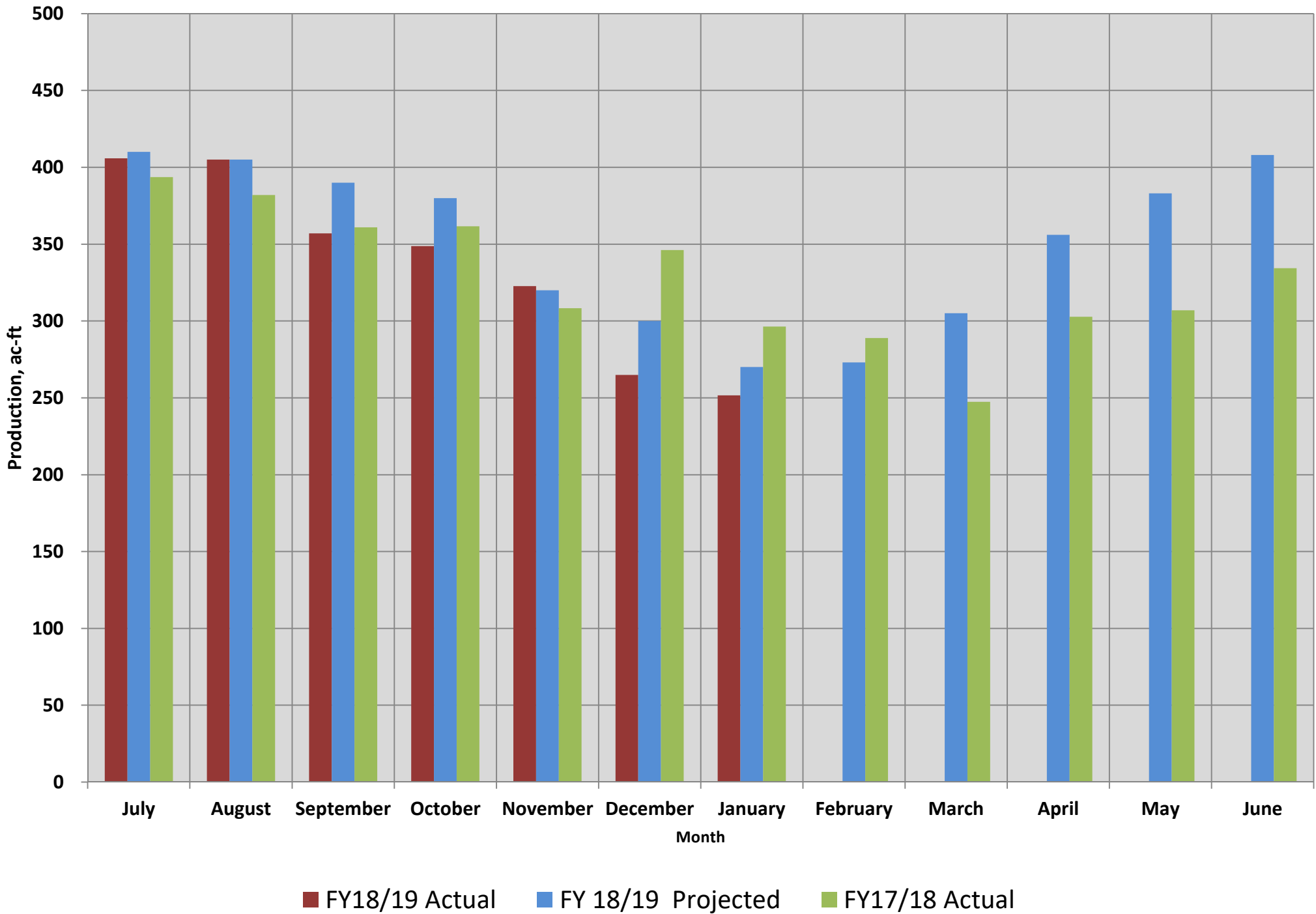
2018/19 Fiscal Year Water Production			WY 18/19 - Groundwater Production Water Rights		GWP (Well 16) Water Production - 2019		Purchased Water Production Tier 2 Allocation - 2019	
Month	Actual Total Water Production (ac-ft)	Projected Total Water Production (ac-ft)	Month	Month	Month	Well Production (ac-ft)	Month	Imported Water Production (ac-ft)
July	406	410	October	115	January	18	January	123
August	405	405	November	108	February		February	
September	357	390	December	103	March		March	
October	349	380	January	111	April		April	
November	323	320	February		May		May	
December	265	300	March		June		June	
January	252	270	April		July		July	
February		273	May		August		August	
March		305	June		September		September	
April		356	July		October		October	
May		383	August		November		November	
June		408	September		December		December	
Total to Date	2,356	2,475	Total to Date	436	Total to Date	18	Total to Date	123
Projected	4,081	4,200	Water Rights	3,294			Tier 2	2,154
% of Projected	56.1%	58.9%	% of Rights	13%			% of Allocation	6%
Remaining	1,844	1,725	Remaining	2,858			Remaining	2,031

NOTE:

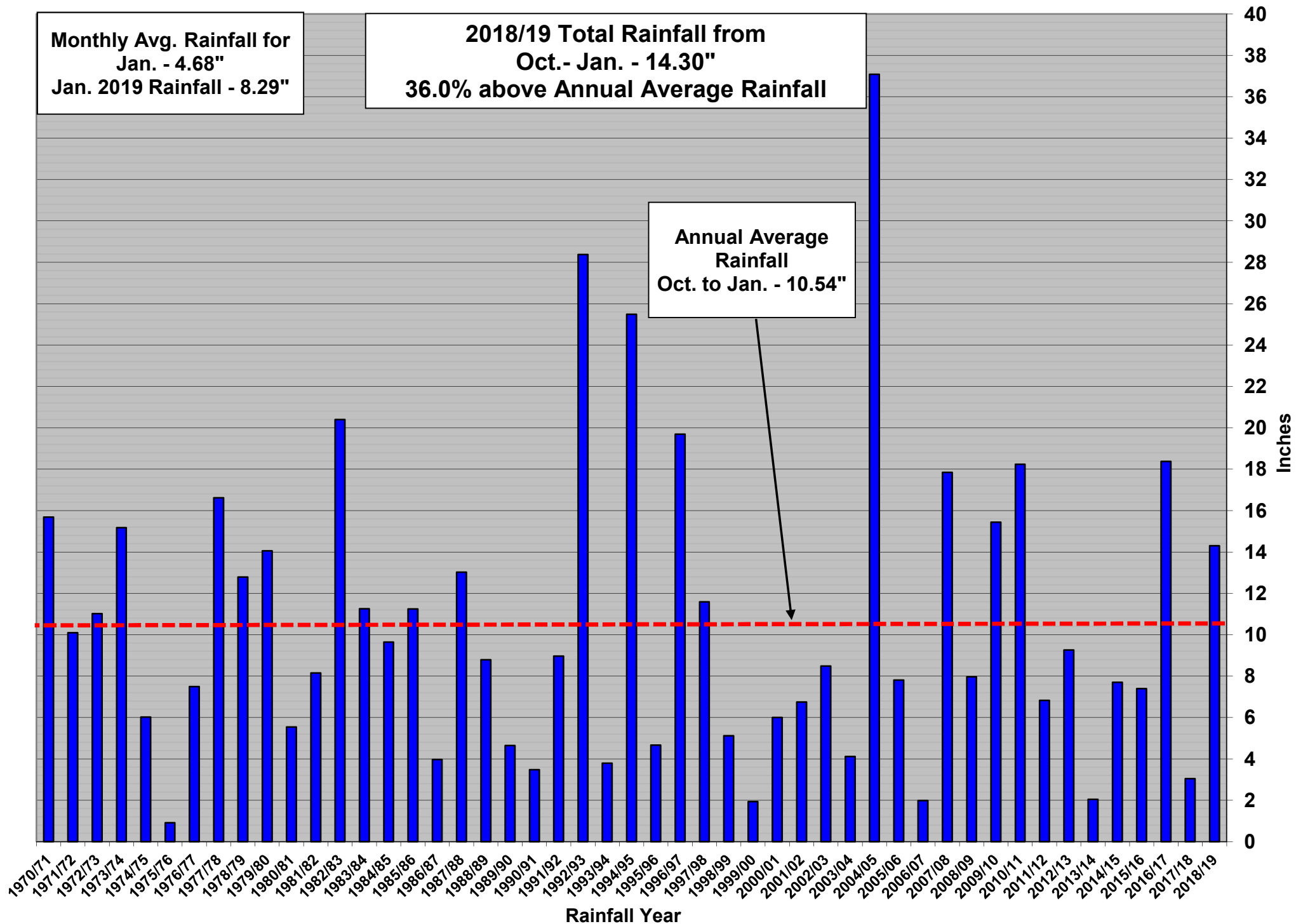
1) Blue Numbers = Estimated Water Production

Monthly Water Production:

FY18/19 Actual, FY18/19 Projected & FY17/18 Actual



Monthly Rainfall - 1970/71 - 2018/19 (Oct.- Jan.)

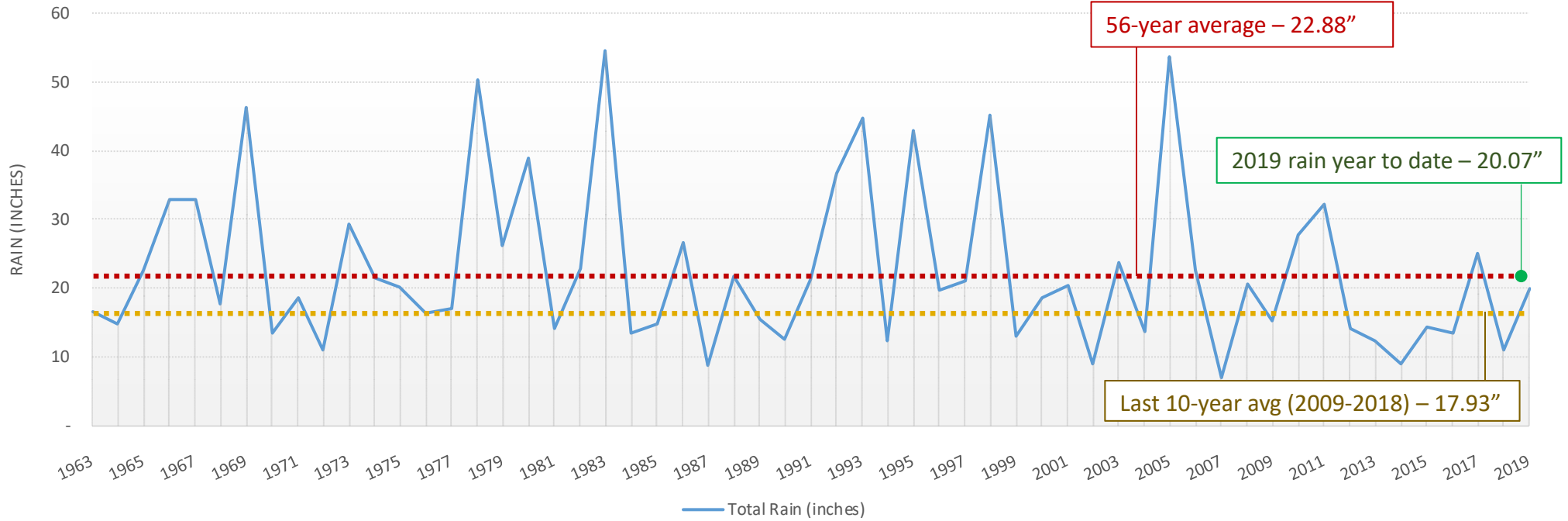


Crescenta Valley Water District
Recorded Rainfall by Decade

Rain Year (Oct thru Sept)	October	November	December	January	February	March	April	May	June	July	August	September	Total Rain (inches)
2019	0.45	2.53	3.03	8.29	6.40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.70
2018	0.14	0.02	-	2.88	0.23	7.05	-	0.70	-	-	-	-	11.02
2017	0.66	1.44	4.57	11.71	5.29	0.65	0.15	0.29	-	-	-	0.20	24.96
2016	0.32	0.14	1.53	5.41	0.94	3.83	0.75	0.32	0.10	-	-	0.15	13.49
2015	-	1.38	5.38	0.94	0.92	0.76	0.35	0.93	0.04	1.58	-	2.00	14.28
2014	0.27	1.15	0.56	0.06	3.79	2.37	0.82	0.01	-	-	0.04	-	9.07
2013	1.29	2.05	3.71	2.21	0.62	0.99	0.19	0.99	-	0.20	-	-	12.25
2012	2.18	2.11	0.93	1.61	0.25	3.94	2.71	0.44	-	-	-	-	14.17
2011	2.19	1.76	13.64	0.65	5.85	7.34	0.02	0.72	0.13	-	-	0.01	32.31
2010	2.08	0.24	5.19	7.93	7.40	1.41	3.29	0.13	-	0.01	-	-	27.68
Total Inches	9.58	12.82	38.54	41.69	31.69	28.34	8.28	4.53	0.27	1.79	0.04	2.36	179.93
Avg. Per Year	0.96	1.28	3.85	4.17	3.17	2.83	0.83	0.45	0.03	0.18	0.00	0.24	17.99
2009	0.09	3.71	3.34	0.83	6.27	0.61	0.07	-	0.23	-	-	-	15.15
2008	0.51	0.58	3.17	13.59	2.00	0.14	0.01	0.60	-	-	-	-	20.60
2007	0.01	0.10	0.59	0.82	2.55	0.27	0.78	-	-	0.06	-	1.77	6.95
2006	2.33	0.16	0.18	5.14	4.57	5.37	3.85	0.74	0.11	-	0.06	0.10	22.61
2005	10.42	0.59	10.87	15.20	11.85	3.16	0.82	0.40	-	-	0.09	0.36	53.76
2004	-	0.98	2.62	0.52	7.84	1.41	0.33	-	-	-	-	-	13.70
2003	0.01	4.88	3.49	0.11	7.04	4.15	2.16	1.56	0.32	-	-	-	23.72
2002	0.10	2.38	2.11	2.16	0.40	0.63	0.16	0.46	0.18	-	-	0.38	8.96
2001	1.70	-	0.02	4.28	9.70	1.96	2.43	-	-	0.17	-	-	20.26
2000	-	0.42	0.15	1.37	9.90	2.87	3.12	0.18	-	-	0.09	0.47	18.57
Total Inches	15.17	13.80	26.54	44.02	62.12	20.57	13.73	3.94	0.84	0.23	0.24	3.08	204.28
Avg. Per Year	1.52	1.38	2.65	4.40	6.21	2.06	1.37	0.39	0.08	0.02	0.02	0.31	20.43
1999	-	1.68	0.44	3.00	1.13	1.83	3.18	0.27	1.30	-	-	0.13	12.96
1998	0.05	3.24	3.63	4.67	19.79	4.56	3.03	5.30	0.55	-	0.01	0.30	45.13
1997	1.66	2.98	7.32	7.73	0.61	-	-	-	0.11	0.04	0.03	0.52	21.00
1996	-	0.10	1.43	3.14	10.22	3.59	1.18	0.03	-	-	-	-	19.69
1995	1.35	0.84	1.38	21.92	3.30	10.44	1.46	0.38	1.84	-	-	-	42.91
1994	0.21	1.37	1.44	0.77	3.89	2.94	0.83	0.61	0.15	-	-	-	12.21
1993	3.00	-	7.31	15.06	13.66	4.23	-	0.07	1.36	0.03	-	0.02	44.74
1992	1.01	0.01	4.58	3.37	15.33	10.82	0.26	0.36	0.06	0.96	-	-	36.76
1991	-	1.19	0.14	2.15	5.55	12.07	0.02	0.04	0.02	0.06	-	0.03	21.27
1990	0.73	0.82	-	3.10	3.96	0.34	1.93	1.25	0.01	-	0.29	-	12.43
Total Inches	8.01	12.23	27.67	64.91	77.44	50.82	11.89	8.31	5.40	1.09	0.33	1.00	269.10
Avg. Per Year	0.80	1.22	2.77	6.49	7.74	5.08	1.19	0.83	0.54	0.11	0.03	0.10	26.91

Rain Year (Oct thru Sept)	October	November	December	January	February	March	April	May	June	July	August	September	Total Rain (inches)
1989	-	2.01	5.91	0.87	3.73	1.33	0.03	0.20	0.12	-	-	1.16	15.36
1988	4.51	2.96	2.21	3.34	3.53	0.95	3.73	0.14	0.01	-	0.23	0.18	21.79
1987	0.22	1.25	0.47	2.03	1.75	1.75	0.32	0.21	0.12	0.25	0.29	0.11	8.77
1986	1.06	5.32	0.35	4.52	5.25	5.82	1.00	-	-	0.09	-	3.30	26.71
1985	0.10	2.74	5.99	0.81	2.59	2.17	0.02	0.28	-	0.01	-	0.14	14.85
1984	1.90	4.21	5.09	0.06	-	0.60	0.77	-	0.07	-	0.15	0.49	13.34
1983	-	8.45	2.64	9.31	6.47	15.40	5.68	1.37	0.10	-	2.78	2.38	54.58
1982	0.52	2.67	0.65	4.30	0.96	7.77	3.20	0.50	0.17	-	-	2.10	22.84
1981	-	-	1.29	4.25	1.43	5.36	1.76	-	-	-	-	-	14.09
1980	1.58	0.74	1.02	10.71	17.28	5.84	1.37	0.30	-	-	-	-	38.84
Total Inches	9.89	30.35	25.62	40.20	42.99	46.99	17.88	3.00	0.59	0.35	3.45	9.86	231.17
Avg. Per Year	0.99	3.04	2.56	4.02	4.30	4.70	1.79	0.30	0.06	0.04	0.35	0.99	23.12
1979	0.39	1.99	3.08	7.33	4.22	8.95	-	0.21	0.08	-	0.03	-	26.28
1978	0.05	0.22	7.32	9.03	13.13	15.08	4.30	-	-	-	-	1.10	50.23
1977	0.16	0.84	0.91	5.58	0.28	2.18	-	4.71	0.13	-	2.15	-	16.94
1976	0.13	-	0.46	-	5.58	3.29	1.66	0.21	0.13	0.02	0.40	4.56	16.44
1975	1.27	0.38	4.17	0.20	3.69	7.27	2.76	0.25	0.09	-	-	-	20.08
1974	0.20	2.82	1.14	11.01	0.15	5.63	0.52	0.10	-	-	-	-	21.57
1973	0.17	3.51	2.61	4.73	13.03	5.01	0.09	0.04	0.06	-	-	-	29.25
1972	1.31	0.54	8.33	-	0.09	-	0.04	0.07	0.29	-	0.38	0.01	11.06
1971	0.09	8.30	6.23	1.06	1.15	-	0.62	1.04	0.13	-	-	-	18.62
1970	-	2.10	0.05	3.12	5.50	2.46	0.19	-	0.01	-	-	-	13.43
Total Inches	3.77	20.70	34.30	42.06	46.82	49.87	10.18	6.63	0.92	0.02	2.96	5.67	223.90
Avg. Per Year	0.38	2.07	3.43	4.21	4.68	4.99	1.02	0.66	0.09	0.00	0.30	0.57	22.39
1969	0.19	0.24	1.02	27.15	14.41	1.48	1.34	0.04	0.49	0.06	-	-	46.42
1968	-	9.36	1.30	1.22	1.54	3.31	0.97	-	-	-	-	-	17.70
1967	0.12	4.28	10.57	6.01	0.22	5.50	5.90	0.36	-	-	-	-	32.96
1966	-	19.38	9.31	0.77	1.67	0.69	-	0.62	-	-	-	0.53	32.97
1965	0.50	3.04	3.60	1.18	1.19	1.22	9.25	0.17	0.16	0.08	0.11	2.10	22.60
1964	1.26	4.35	0.05	3.34	-	2.92	1.90	0.62	0.40	-	0.04	-	14.88
1963	0.17	-	-	0.85	6.69	2.84	3.20	0.08	0.72	-	-	2.09	16.64
Total Inches	2.24	40.65	25.85	40.52	25.72	17.96	22.56	1.89	1.77	0.14	0.15	4.72	184.17
Avg. Per Year	0.32	5.81	3.69	5.79	3.67	2.57	3.22	0.27	0.25	0.02	0.02	0.67	26.31
Years of Data	57	57	57	57	57	56	56	56	56	56	56	56	
Total Inches	48.66	130.55	178.52	273.40	286.78	214.55	84.52	28.30	9.79	3.62	7.17	26.69	1,292.55
Avg. Per Year	0.85	2.29	3.13	4.80	5.03	3.83	1.51	0.51	0.17	0.06	0.13	0.48	22.88

Rain by Rain Year, 1963 - 2019 (inches)



Rain Average by Decade (inches)

