



WATERREUSE
SAN DIEGO

Chapter Meeting

October 6, 2020

Lesley Dobalian, President

Tom Falk, President-Elect

Scott Lacy, Past-President

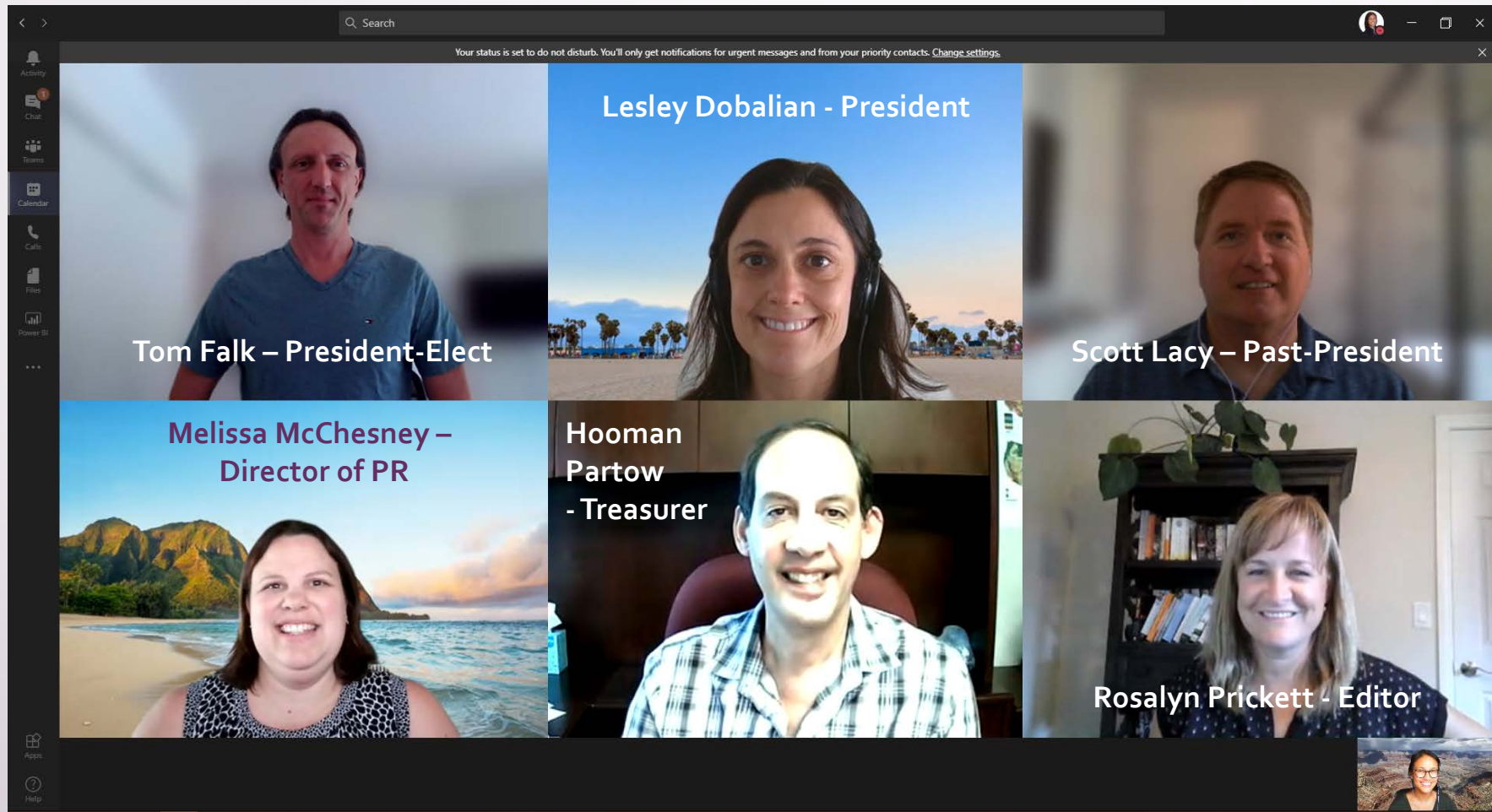
Jocelyn Lu, Secretary

Hooman Partow, Treasurer

Melissa McChesney, Dir. Of PR & Membership

Rosalyn Prickett, Newsletter Editor

San Diego Chapter- Officer Introduction s



Chapter Updates

- Membership Update
- Officer Elections

WateReuse CA Update

Paul Sciuto, President WateReuse California and
General Manager of Monterey One Water





San Diego Chapter Meeting

Paul A. Sciuto, President WaterReuse California

October 6, 2020



Virtual Legislative Outreach

- Virtual Outreach to Legislators – WRCA organizing with agency teams

Messages:

Need for recycled water funding in 2021

Educate legislators about reuse issues in districts



ASSEMBLY MEMBER
Bill Quirk
DISTRICT 20

AB 574



**Advances the use of
recycled water in California.**

- DDW beginning work on DPR Expert Panel!!! First meeting likely March 2021.
- WRCA has been working with the Water Board for two years to find the resources to begin this work.
- AB 574 Framework: Calls for Raw Water Augmentation and Treated Drinking Water Augmentation regulation development
- AB 574 Statutory deadline for DPR regs: 2023



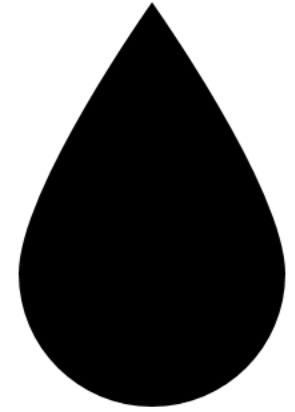
WRCA-CASA CWSRF Members Survey

Preliminary Results

- Long delays between General Package submittal and Water Board review (sometimes years);
- Applicants need more information about the status of each step in their loan package as DFA review can take months to years
- WRCA and CASA considering hiring a consultant to conduct a program review of the program and benchmark it to other states.

WRCA NON-POTABLE REGULATIONS

- Title 22 –No date yet for non-potable update. AB 1180 required Water Board to update these regs by 2023. Budget included one staff person for update
- Handbook – Backflow protection – DDW says draft expected by the end of the year.
- Title 24 (Plumbing Code) Updated every three years. Swivel ell language pulled from latest update as Water Board had no proposed backflow protection language.



Science Advisory Panel: CECs in CA's Aquatic Ecosystems

- Reconvene Panel from 2012
(Final report Dec. 2021)
- First meeting Oct. 12-15
- Convened by SCCWRP on behalf of Water Board and Ocean Protection Council
- WRCA will participate as there may be recycled water recommendations



How Much Recycled Water is Possible?

(WRF project 4962)

- UC Davis Leading Research Effort
- Comprehensive spreadsheet and GIS database to estimate current and future available wastewater available for recycled water.
- Potable and non-potable/inland and coastal.
- Will account for water demands and constraints.
- Conclusions to be organized by regions.
- WRCA is joining the PAC

QUESTIONS?



Regulatory Updates

Candida Granillo-Dodds, Division of Drinking Water, RW Unit

Fisayo Osibodu, SDRWQCB

Brandon Bushnell, SDRWQCB

Division of Drinking Water Update

- DPR regulations:

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/direct_potable_reuse/dprframewksec.pdf

email: DDWrecycledwater@waterboards.ca.gov

- Cross connection control handbook:

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Regulations.html

- Regulations for onsite treatment for nonpotable reuse:

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/onsite_nonpotable_reuse_regulations.html

- Pre 2001 Title 22 engineering report update:

https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2018/121118_7_final_amendment_oal.pdf

WaterReuse San Diego Regulatory Updates NPDES Permit for the City of San Diego Pure Water Project

Fisayo Osibodu, PE
San Diego Water Board



October 6, 2020

WATER QUALITY CONTROL POLICY FOR RECYCLED WATER



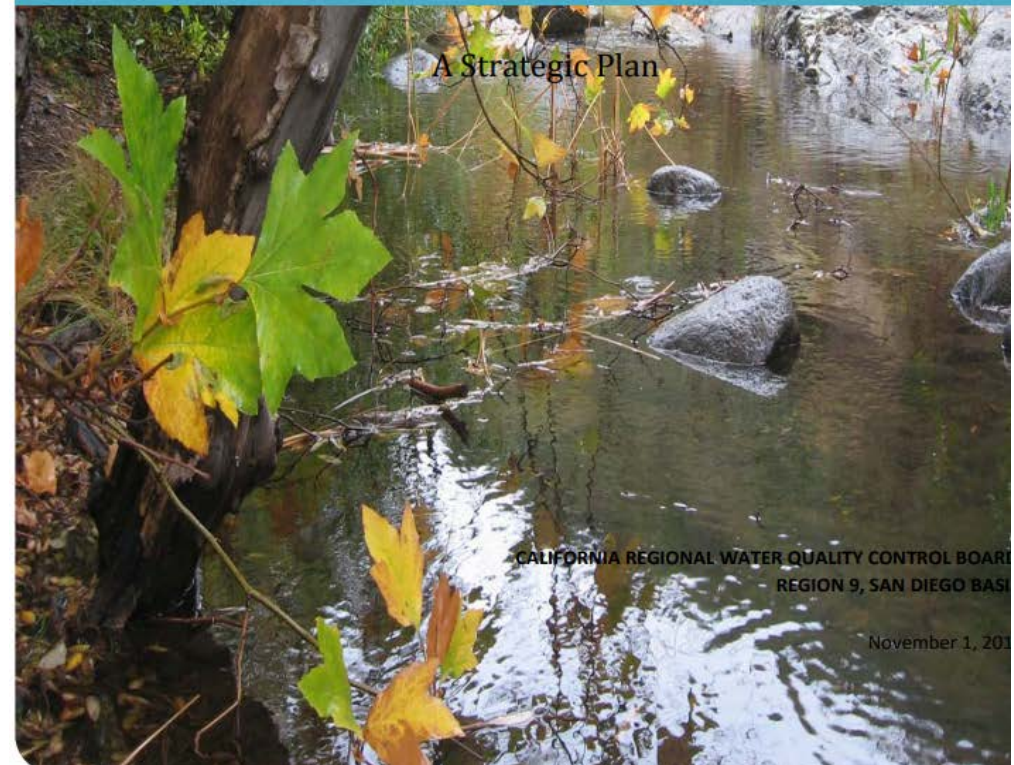
Adopted December 11, 2018

Effective April 8, 2019

STATE WATER RESOURCES CONTROL BOARD
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



San Diego Water Board Practical Vision



A Strategic Plan

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
REGION 9, SAN DIEGO BASIN

November 1, 2018



From North City Pure Water Project Title 22 Engineering Report

Pure Water
will produce
1/3
of San Diego's water
locally

Phases 2 & 3

- 2035 Completion
- 53 mgd
- Central Area PWF to San Vicente or Lake Murray
- South Bay PWF to Lower Otay Reservoir (if needed)



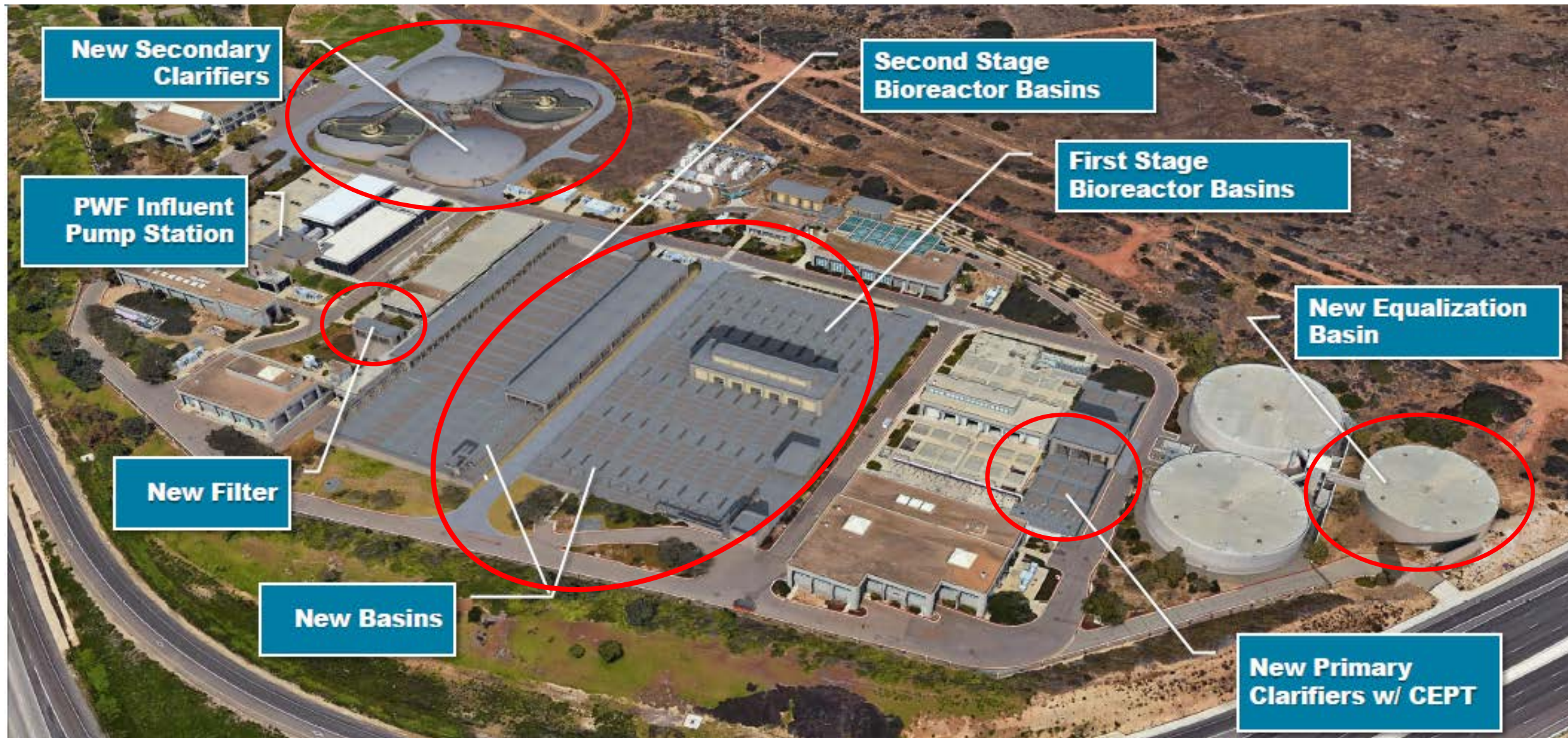
From North City Pure Water Project Public Hearing Presentation

Existing North City Water Reclamation Plant

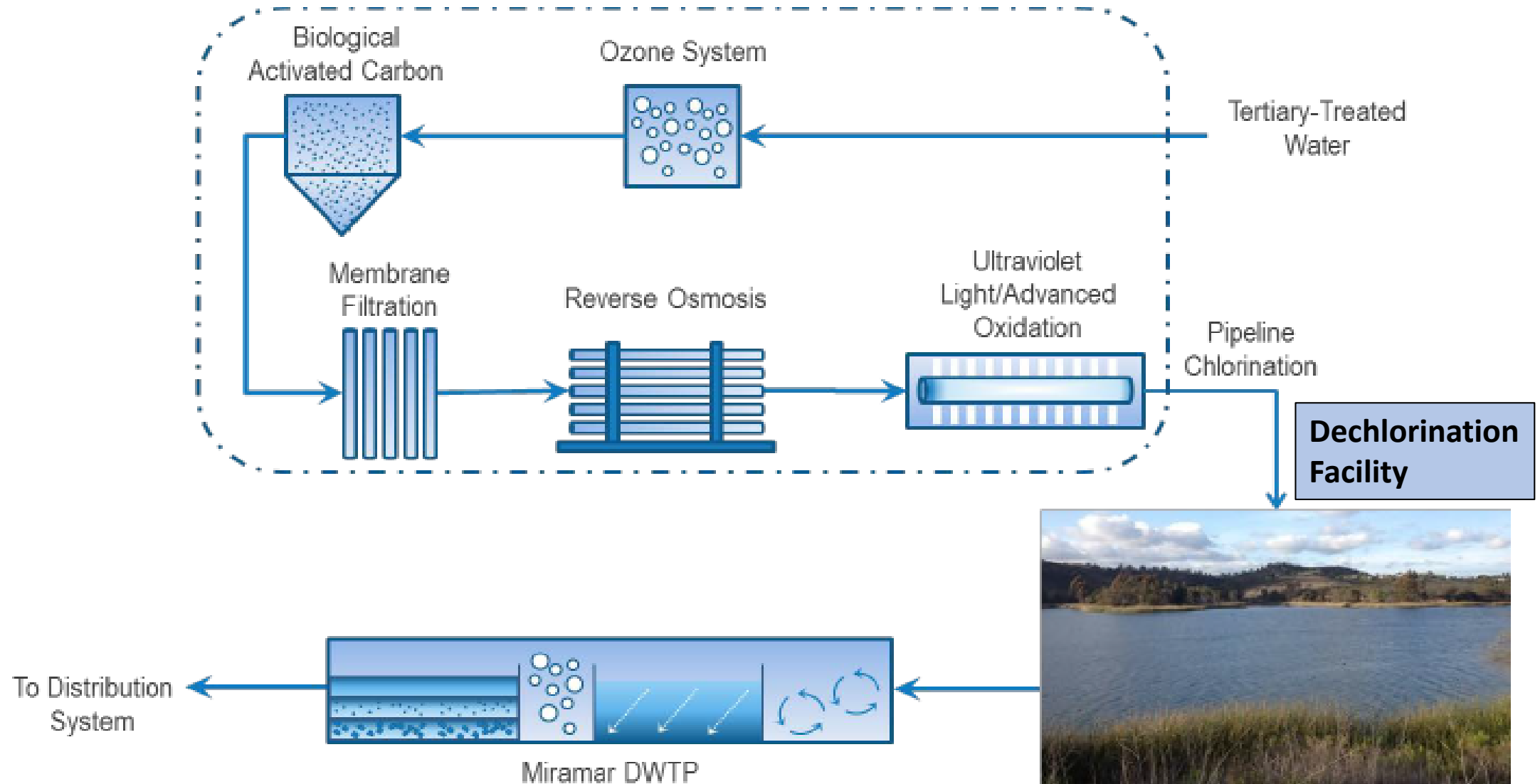


Provided by City of San Diego Public Utilities Department

North City Water Reclamation Plant Expansion



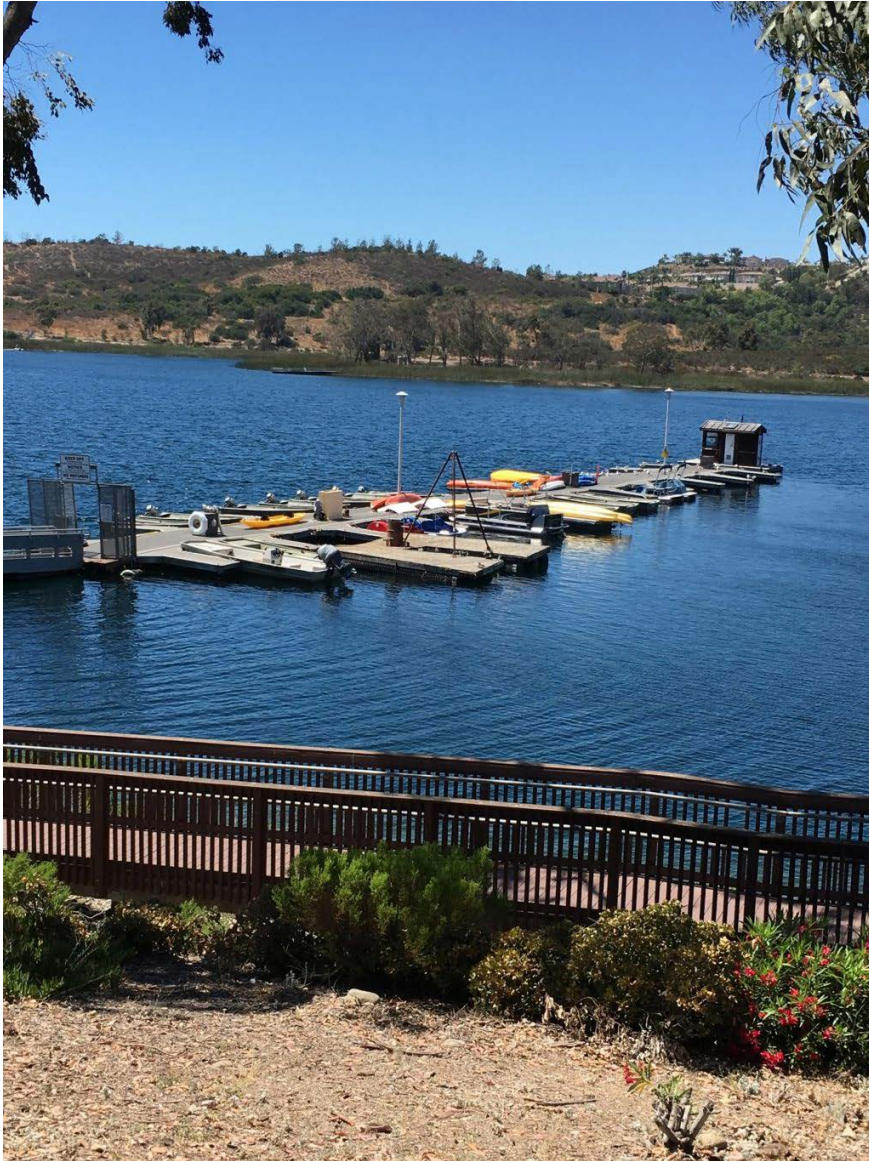
North City Pure Water Facility



Modified From North City Pure Water Project Title 22 Engineering Report

Miramar Reservoir

Designated Beneficial Uses of Miramar Reservoir



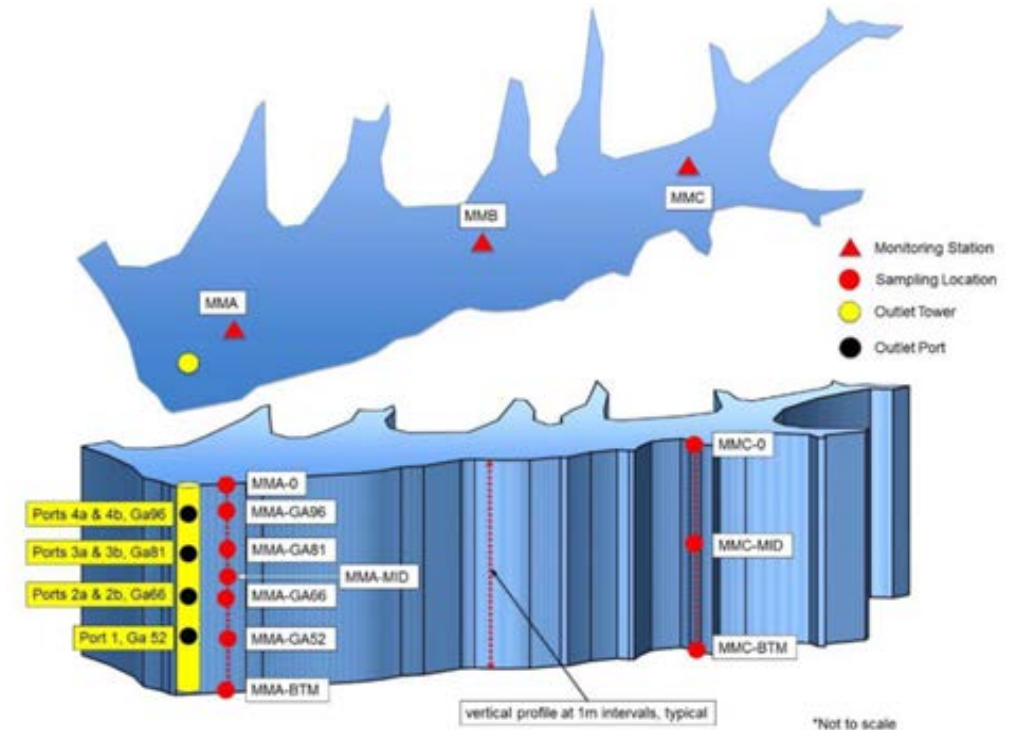
- Municipal and domestic supply
- Contact water recreation
- Non-contact water recreation
- Industrial service supply
- Warm freshwater habitat
- Wildlife habitat
- Hydropower generation

Key Permit Requirements

- Secondary treatment standards (Federal Regulations)
- Nitrogen & phosphorus limits (Basin Plan)
- Effluent limits based on MCLs (and Basin Plan)
- Title 22 Design and Operation Requirements (DDW)
 - Operation Plan
 - Demonstrate proper training of operators
 - Enhanced Source Control Program

Monitoring and Reporting Program

- Effluent Monitoring
- Reservoir Monitoring
- Title 22 Based Monitoring
- Process Control and Surrogate Monitoring
- Contaminants of Emerging Concern Monitoring
- Fish Tissue Monitoring



WaterReuse San Diego Regulatory Updates

Recycled Water Policy Update

Volumetric Reporting and Salt and Nutrient Management Plans

Brandon Bushnell, EIT
San Diego Water Board



October 6, 2020

Recycled Water Policy Update

- Adopted December 11, 2018
- Effective April 8, 2019
- Implementation Orders July 29, 2019
 - Volumetric Reporting for ALL POTWs over 20,000 gpd
 - Removal of priority pollutant monitoring for landscape irrigation projects
- Set goals for recycled water production increase in CA
 - 714,000-acre feet per year (afy) in 2015 to 1.5 million afy in 2020 and 2.5 million afy in 2030
 - Tracking progress with volumetric reporting
- Updated Salt and Nutrient Management Plan requirements

Volumetric Reporting

- ALL POTWs over 20,000 gpd (825 facilities in CA)
- Report through GeoTracker
- Due Date of April 30th
 - Extended to June 30th due to Covid-19
 - As of July 6th 70% statewide had submitted data (89% in SD Region)
- 2019 Volumetric Data
 - Total water reused = 685,686 acre-feet
 - Approximately 20% of total effluent (~3 million acre-feet)
 - Will need closer to 50% recycled to reach 2020 goal of 1.5 million-acre feet
 - Total water reused in SD region was 53,705.5 acre-feet
 - SD region also about 20% reuse of total effluent

Salt and Nutrient Management Plans

- Assess the needs for SNMPs for all basins by April 8, 2021
- Requires basin wide monitoring and reporting
- Promotes the adoption of SNMPs as Basin Plan Amendments
- Reviewing the current SNMPs that were submitted
 - Lacking groundwater monitoring and reporting programs
 - Limited management proposals
- Report groundwater data through GeoTracker
- Adopt updated SNMPs as Basin Plan amendments

Three thick, light gray wavy lines curve across the top half of the slide, creating a sense of movement and depth.

Questions?

Next Chapter Meeting

December 2020...

- Date to be confirmed (likely virtual again)
- Officer Elections
- 20th Anniversary of San Diego Chapter

WateReuse Symposium Recap

WateReuse LA Happy Hours – You're Invited!

Monthly virtual LA Chapter Happy Hour

Next happy hour: October 29th, 4:30 – 6:00 PM

Email Jocelyn to get the invite link!