

Item 6
R9-2018-0059
NPDES Permit Reissuance
Encina Wastewater Authority
Encina Ocean Outfall

Joann Lim, WRCE

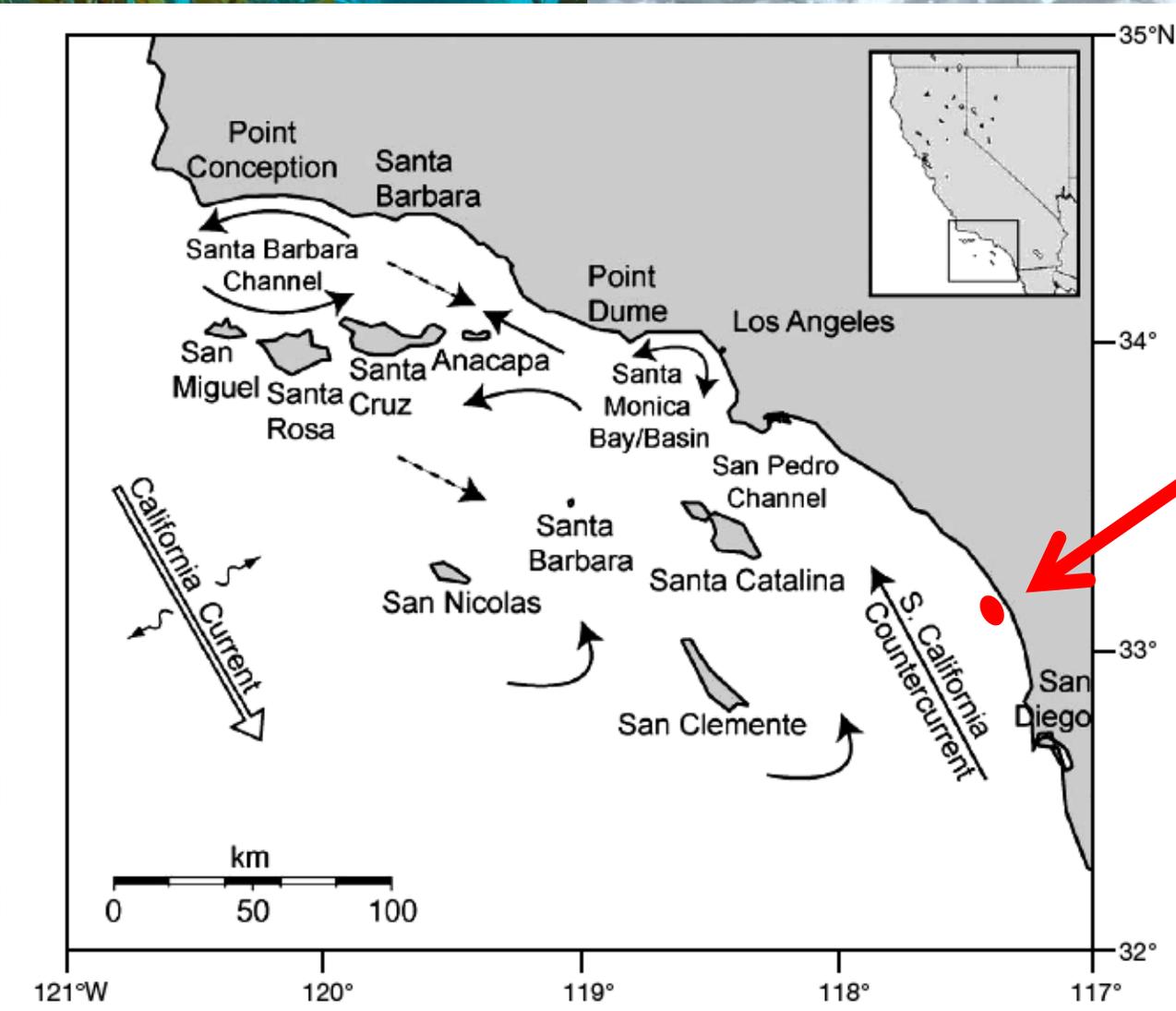
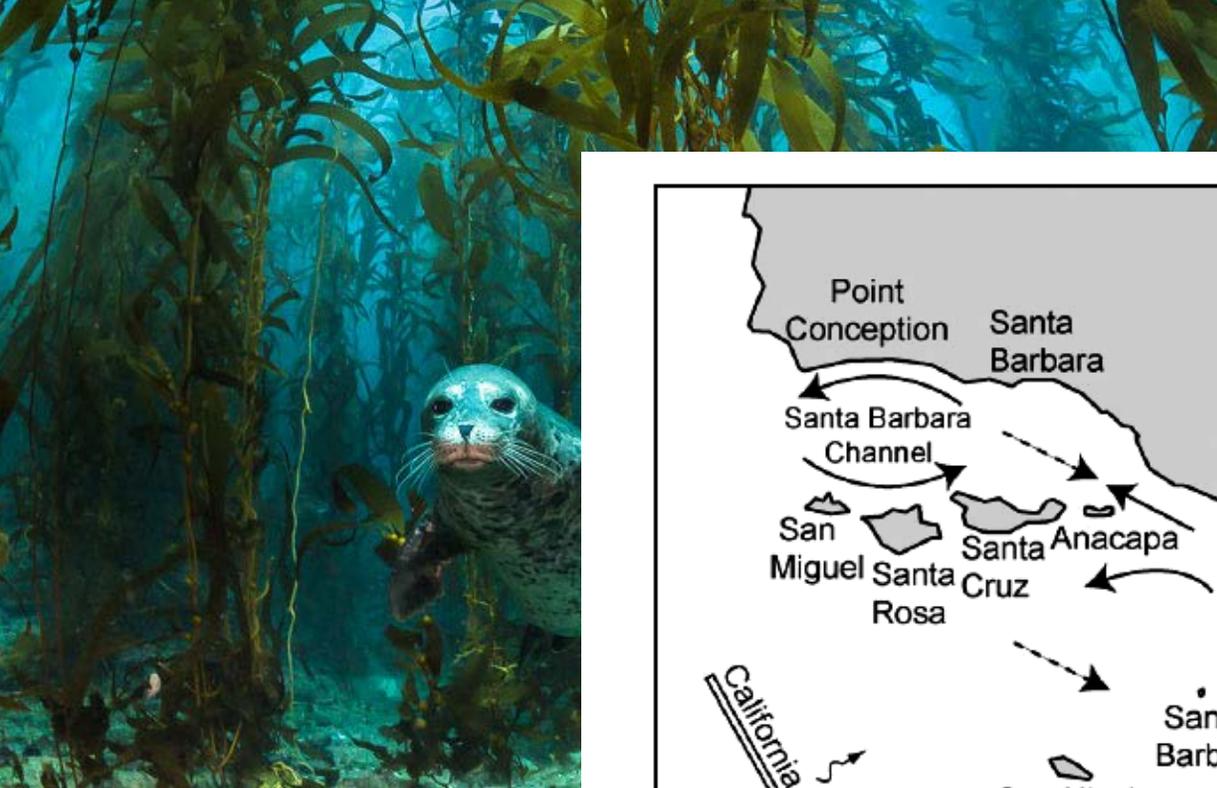
Keith Yaeger, Env. Scientist

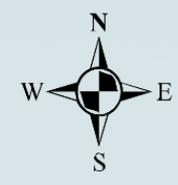


Presentation Overview

- Receiving water
- Facility overview
- Compliance history
- Tentative Order
- Public comments
- Staff recommendation

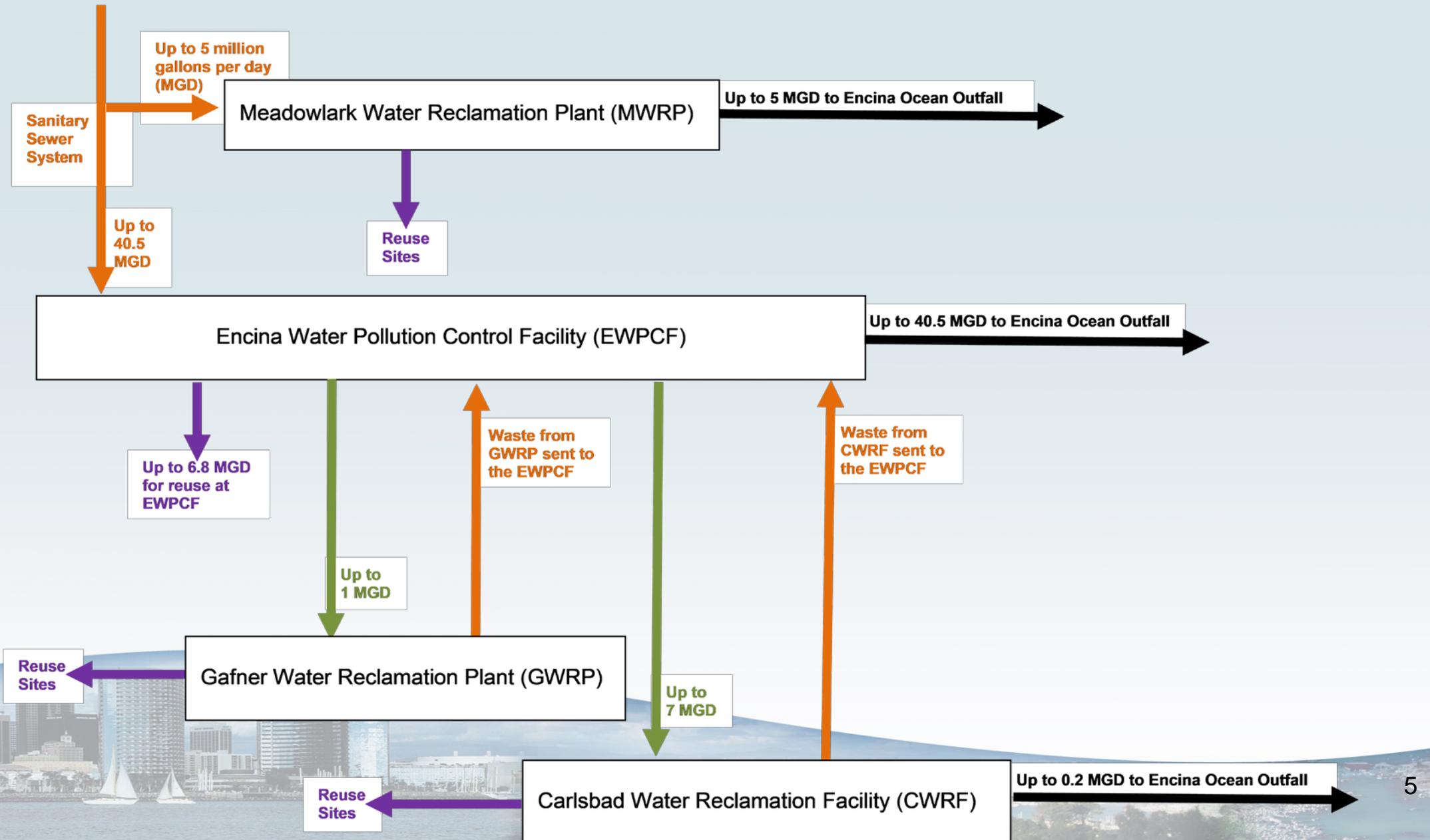




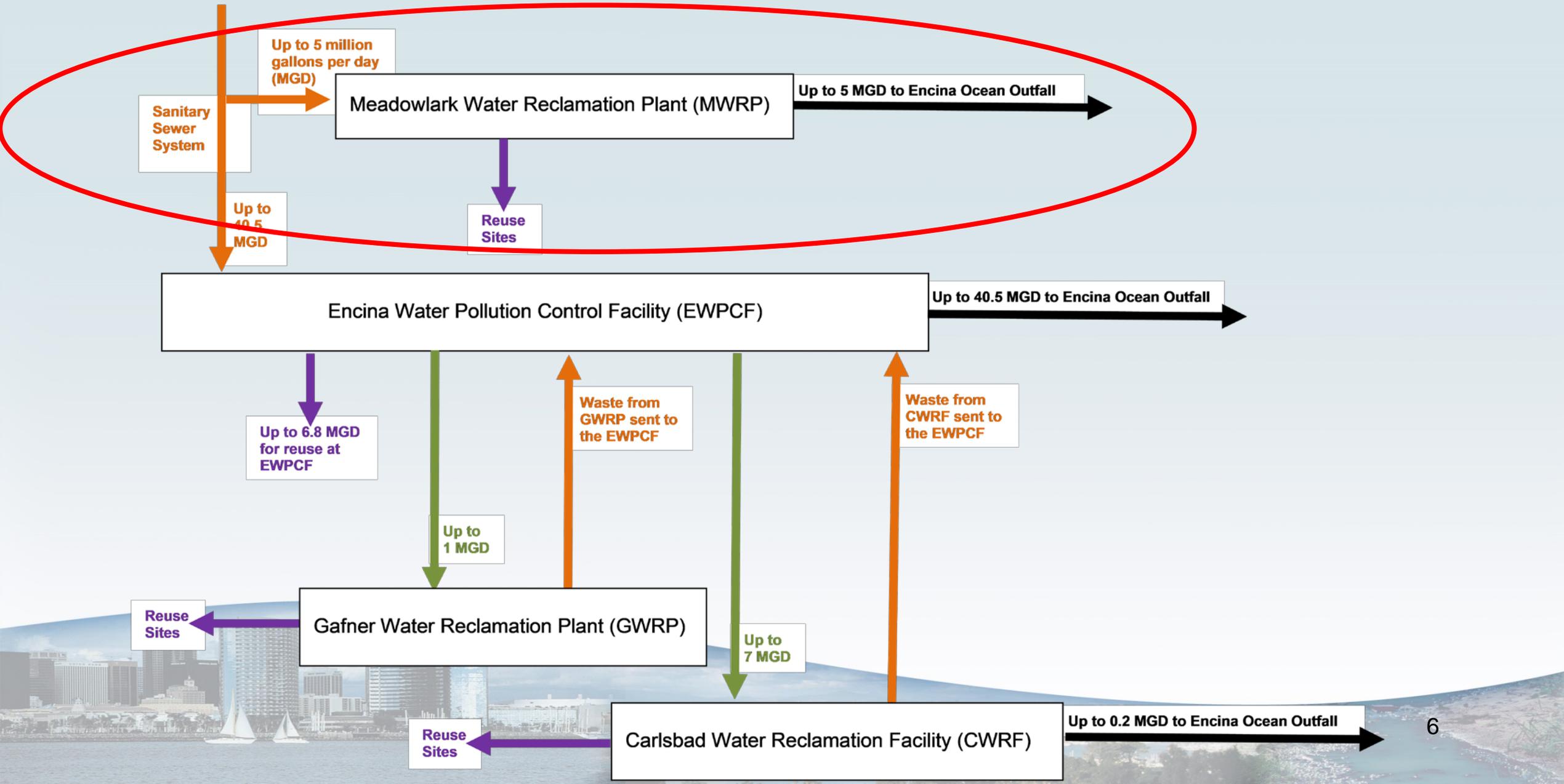


- **City of Carlsbad**
- **City of Vista**
- **City of Encinitas**
- **Buena Sanitation District**
- **Vallecitos Water District**
- **Leucadia Wastewater District**

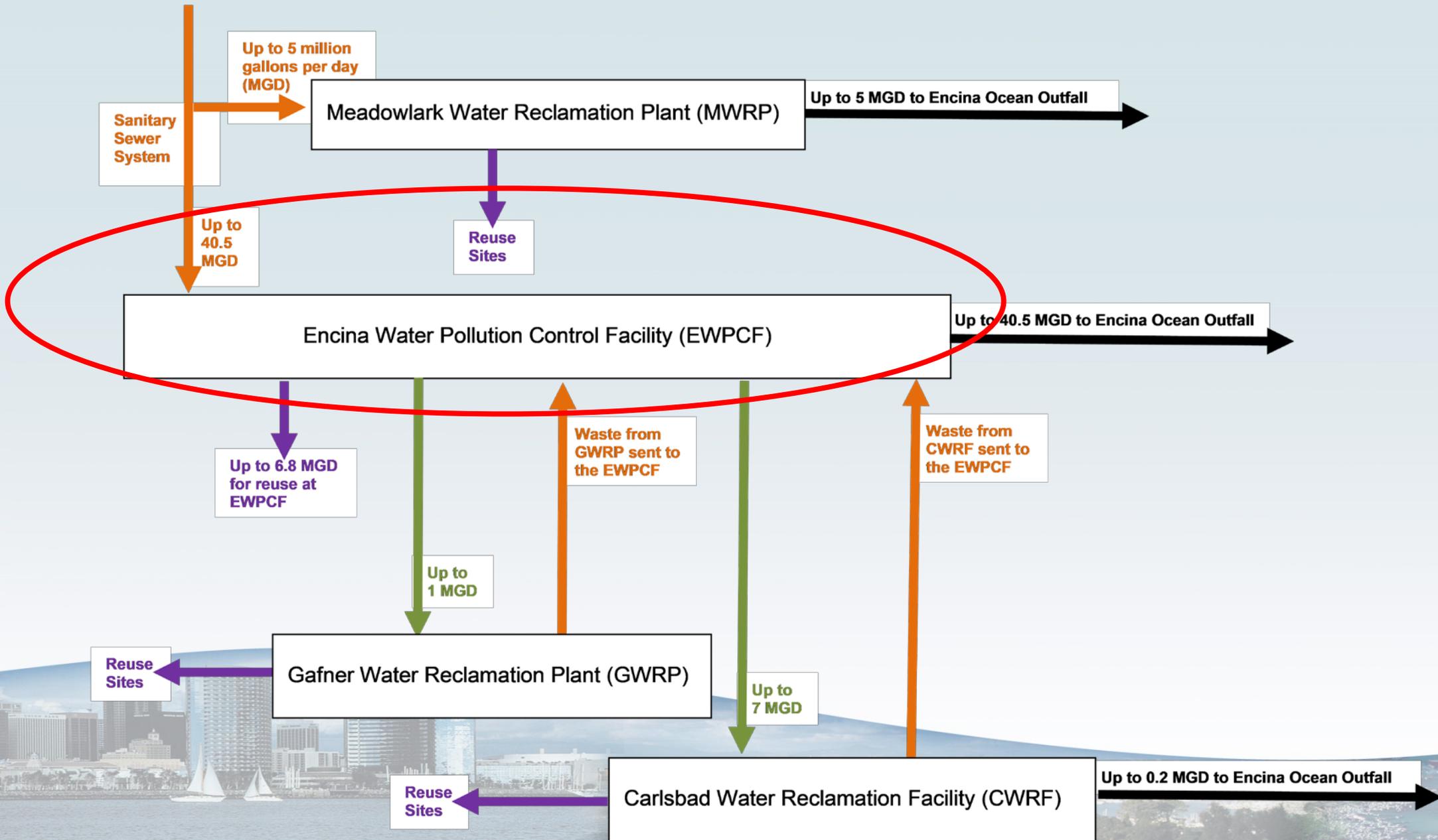
Flow Schematic for the Facilities owned by Encina Wastewater Authority and its Member Agencies



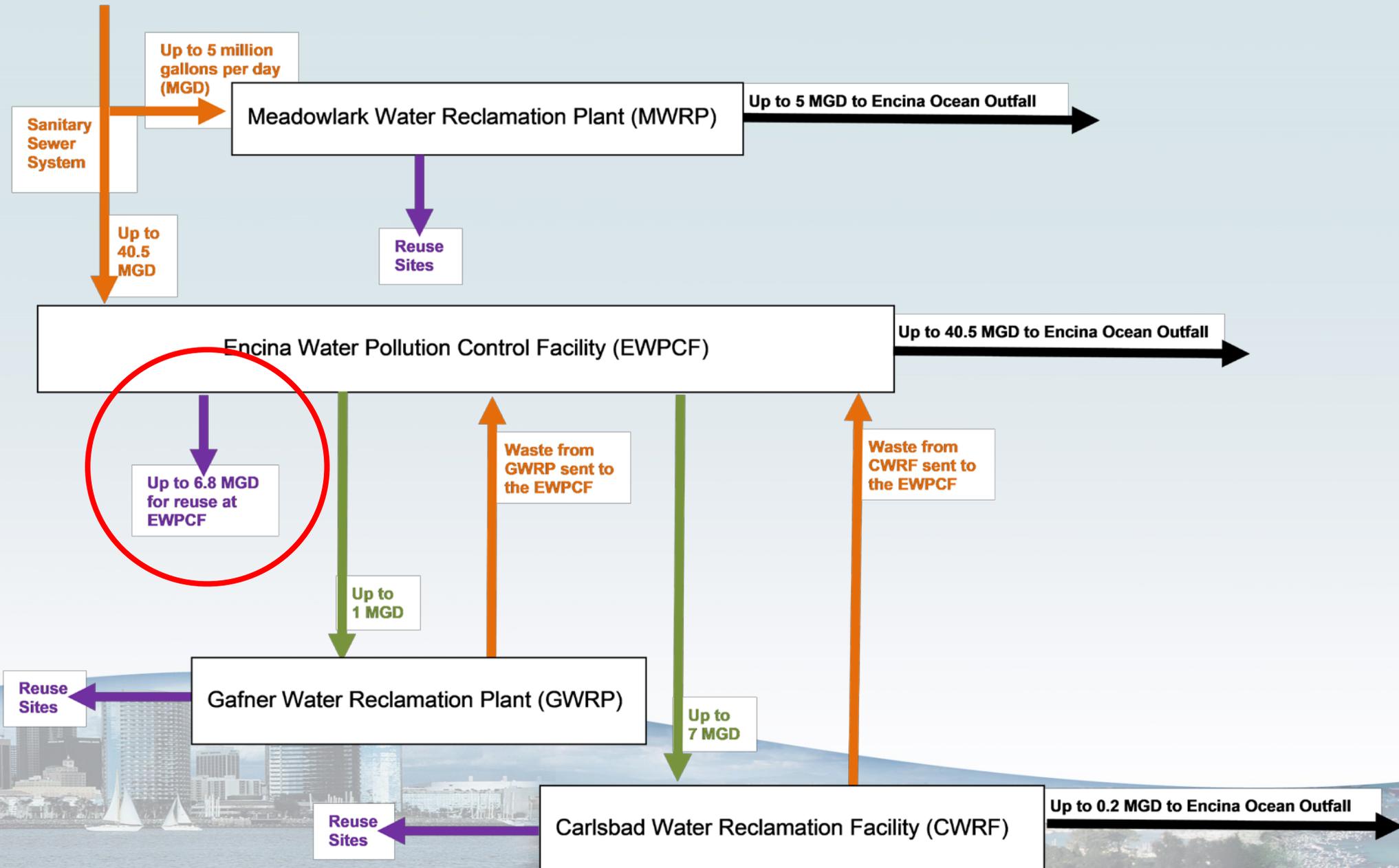
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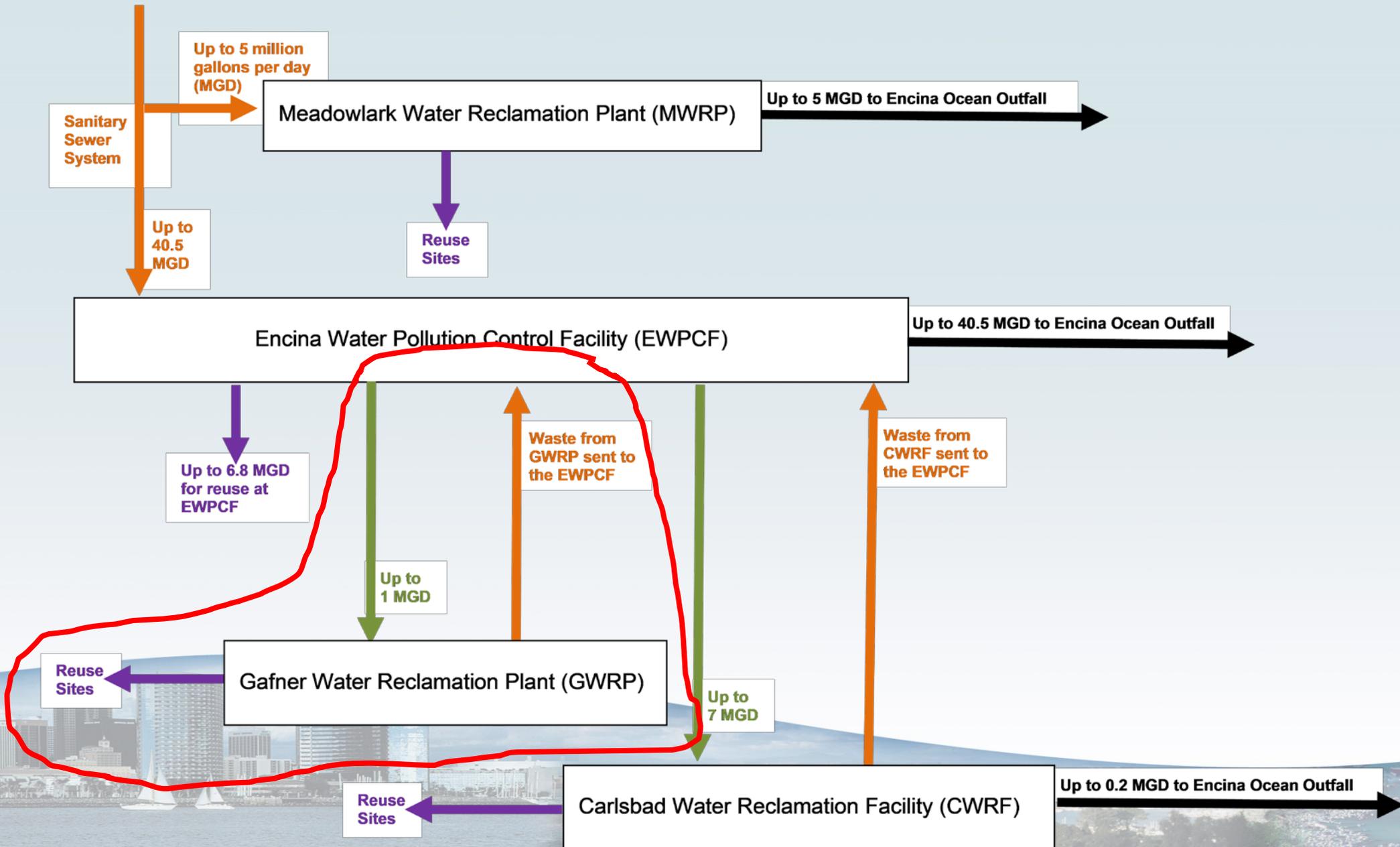
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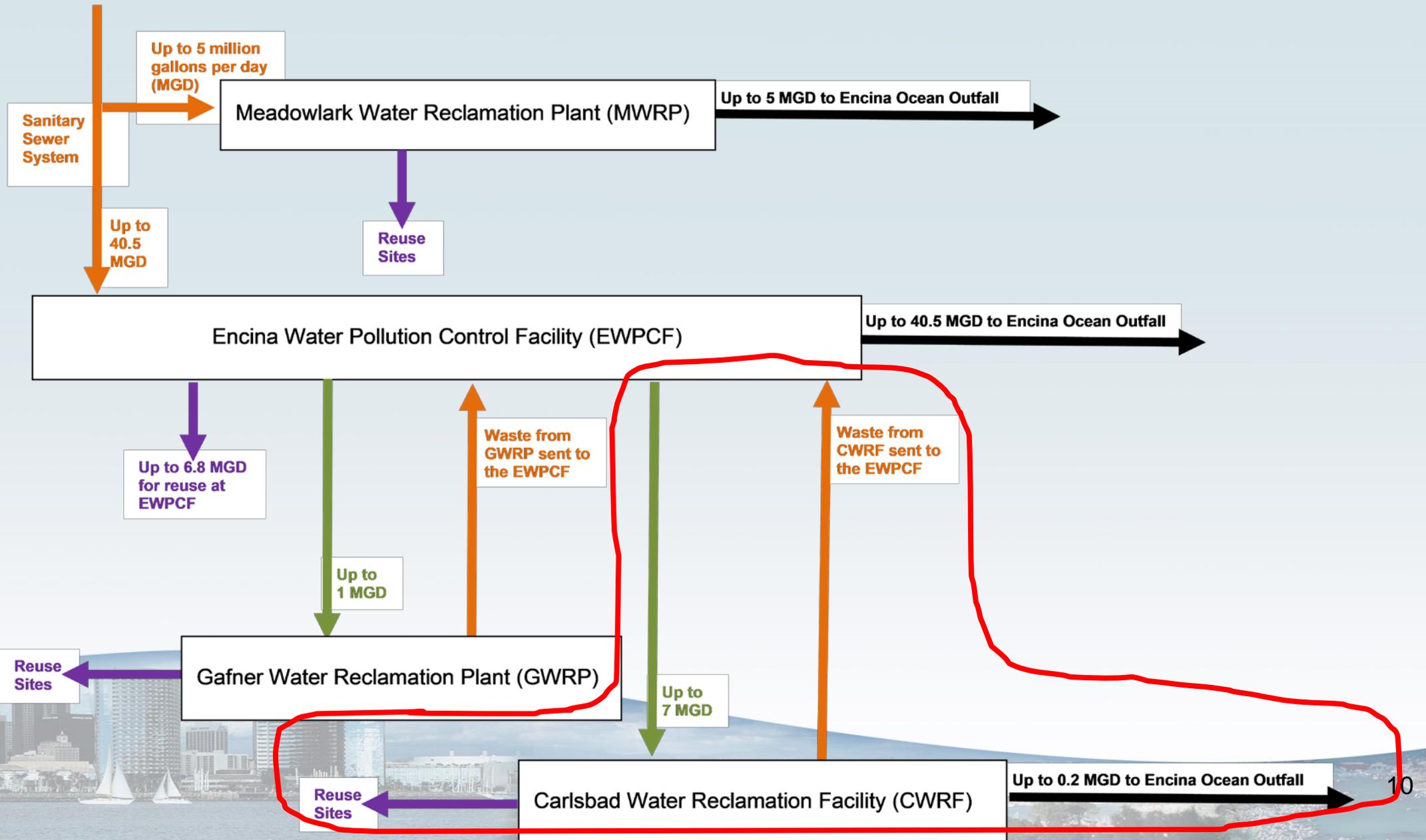
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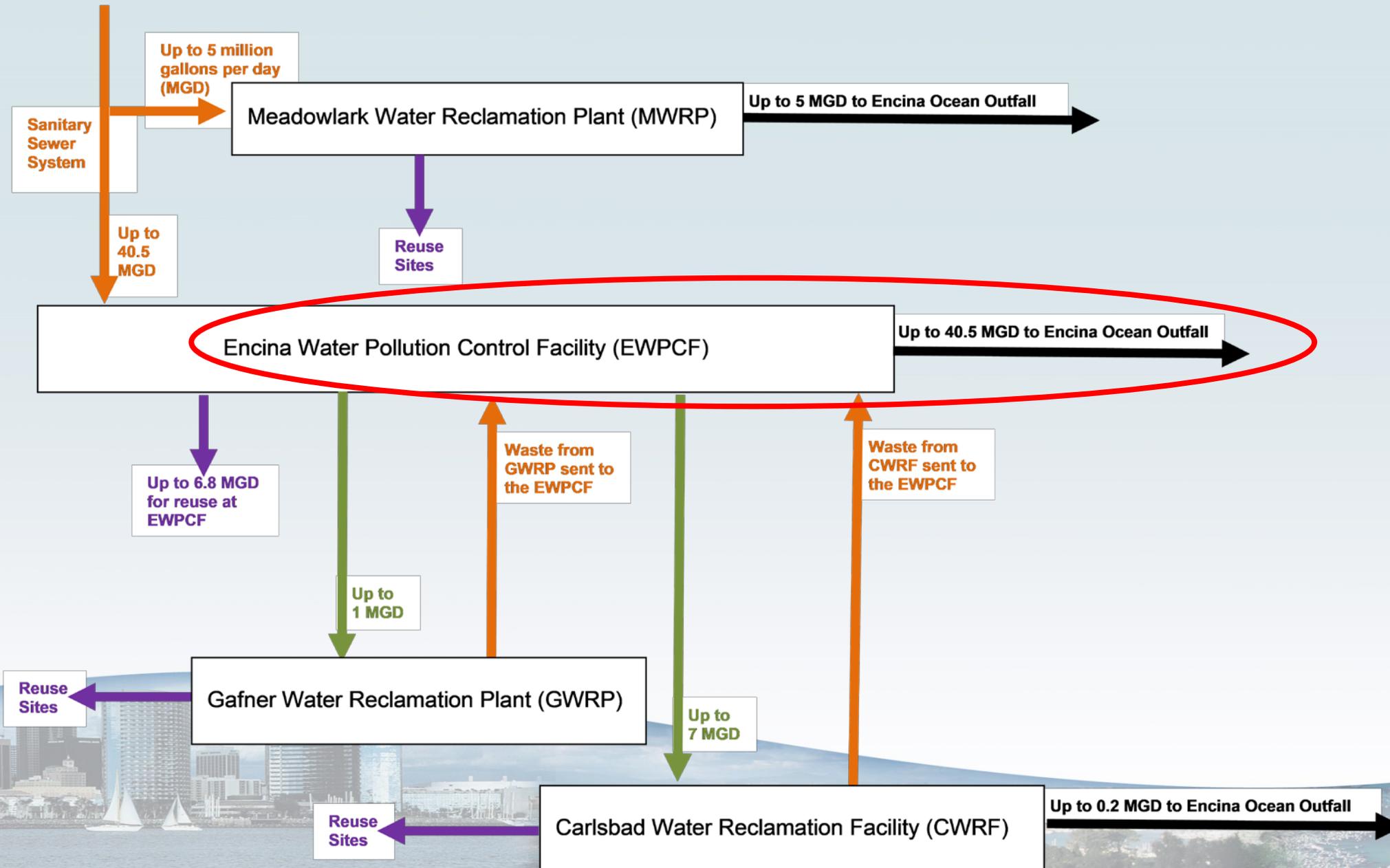
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Flow Schematic for the Facilities owned by Encina Wastewater Authority and its Member Agencies



Flow Schematic for the Facilities owned by Encina Wastewater Authority and its Member Agencies



7-Year Compliance History

- 9 deficient monitoring violations



7-Year Compliance History

- 9 deficient monitoring violations
- 2 unauthorized discharge violations



7-Year Compliance History

- 9 deficient monitoring violations
- 2 unauthorized discharge violations
- 2 late report violations
- 1 effluent violation for flow



7-Year Compliance History

- 9 deficient monitoring violations
- 2 unauthorized discharge violations
- 2 late report violations
- 1 effluent violation for flow
- 1 single operational upset



Tentative Order Effluent Limitations

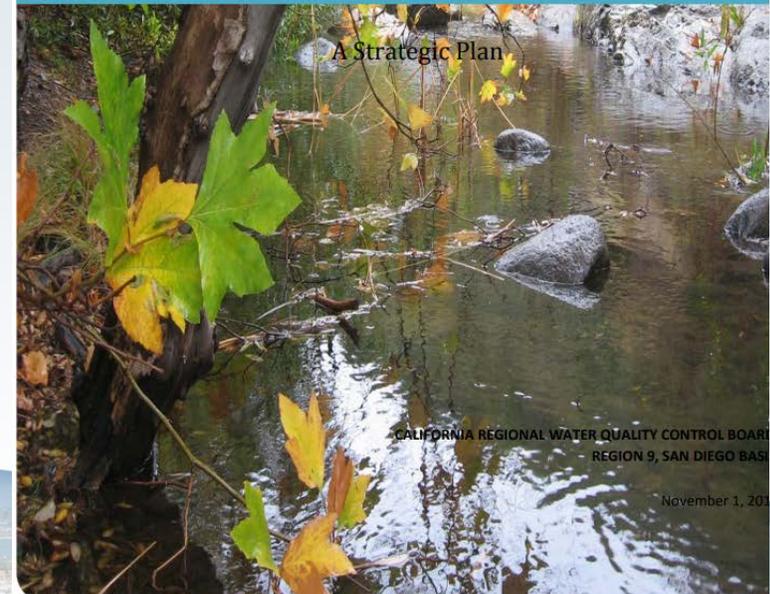
Practical Vision

Chapter 1: *Strategizing for Healthy Waters*

- Establishes Effluent Limits to protect key Beneficial Uses



San Diego Water Board
Practical Vision



A Strategic Plan

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

November 1, 2011



Tentative Order Effluent Limitations

Facility	Tentative Order
Encina WPCF	Flow Limitation: Daily to Average Monthly Limitation
Carlsbad WRF	Limitations Unchanged
Meadowlark WRP	Limitations Unchanged
Shadowridge WRP	Limitations Removed
Encina Ocean Outfall	Limitations Unchanged



Tentative Order

Effluent Monitoring Requirements

Parameter	Current Order	Tentative Order
CBOD ₅	3/Week	5/Week
Metals, Cyanide, Phenols, Endosulfan, Endrin, and HCH	1/Quarter	2/Year
Total Dissolved Solids	None	1/Month
Total Coliform, Fecal Coliform, and Enterococcus	None	1/Quarter
Acute Toxicity	2/Year	None
Chronic Toxicity	1/Quarter	1/Month



Tentative Order

Receiving Water Monitoring Requirements

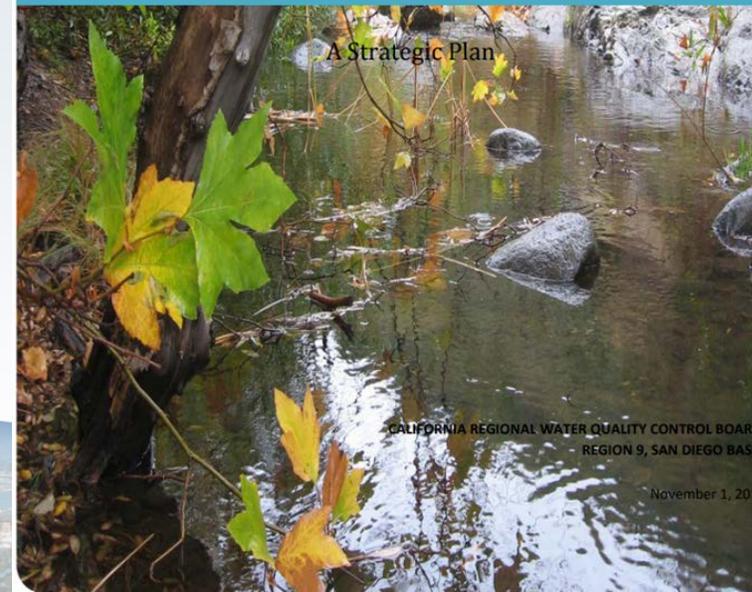
Practical Vision

Chapter 2: *Monitoring and Assessment*

- Question Driven
- Water Body-Oriented



San Diego Water Board Practical Vision



A Strategic Plan

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

November 1, 2011

Tentative Order

Receiving Water Monitoring Requirements

Location	Parameter	Current Order	Tentative Order
		Frequency	Frequency
Surf Zone	Indicator Bacteria	1/Week	1/Week
Near Shore	Indicator Bacteria	1/Month	1/Quarter
	Abiotic Factors	None	1/Quarter
Offshore	Indicator Bacteria	1/Month	1/Quarter
	Abiotic Factors	1/Month For One Year	1/Quarter

Indicator Bacteria: Total and Fecal Coliforms, and Enterococcus

Abiotic Factors: Temperature, Dissolved Oxygen, Light Transmittance, pH, and Salinity

Tentative Order

Receiving Water Monitoring Requirements

	Parameters	Current Order	Tentative Order
		Frequency	Frequency
Sediment	Chemistry	1/Permit Term to 2/Permit Term	1/Permit Term
	Benthic Community	1/Permit Term	1/Permit Term
	Toxicity	None	1/Permit Term
Fish and Invertebrate	Community Trawls	1/Permit Term	1/Permit Term
	Fish Tissue Analysis	1/Permit Term	1/Permit Term



Tentative Order

Receiving Water Monitoring Requirements

- Receiving Water Monitoring Report
 - In-depth discussion of receiving water monitoring data
 - Includes graphs and tables
 - Addresses monitoring questions
- State of the Ocean Report
 - Oral Report to the San Diego Water Board



Tentative Order Special Studies

- Climate Change Action Plan
 - Assess Potential Impacts from Climate Change to Facility
 - Steps planned to address
 - Impacts on Treatment Operations
 - Flooding and Sea Level Rise
 - Greenhouse emissions



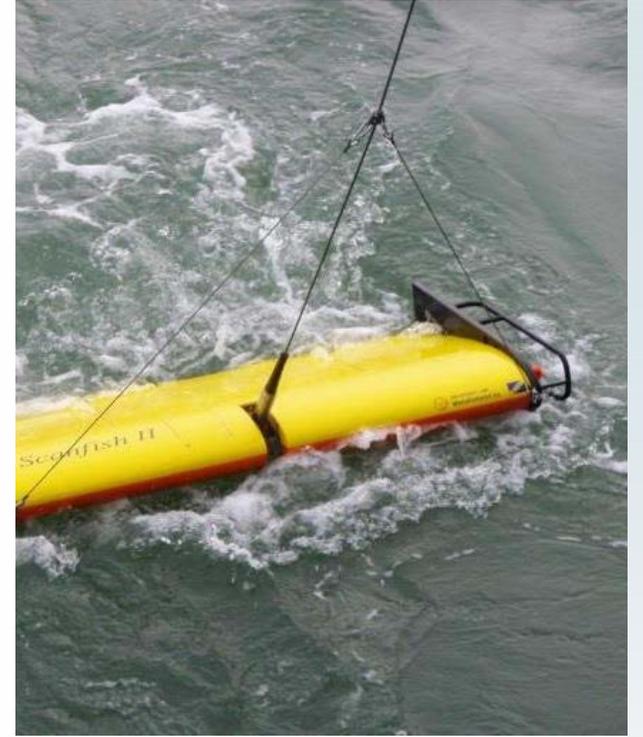
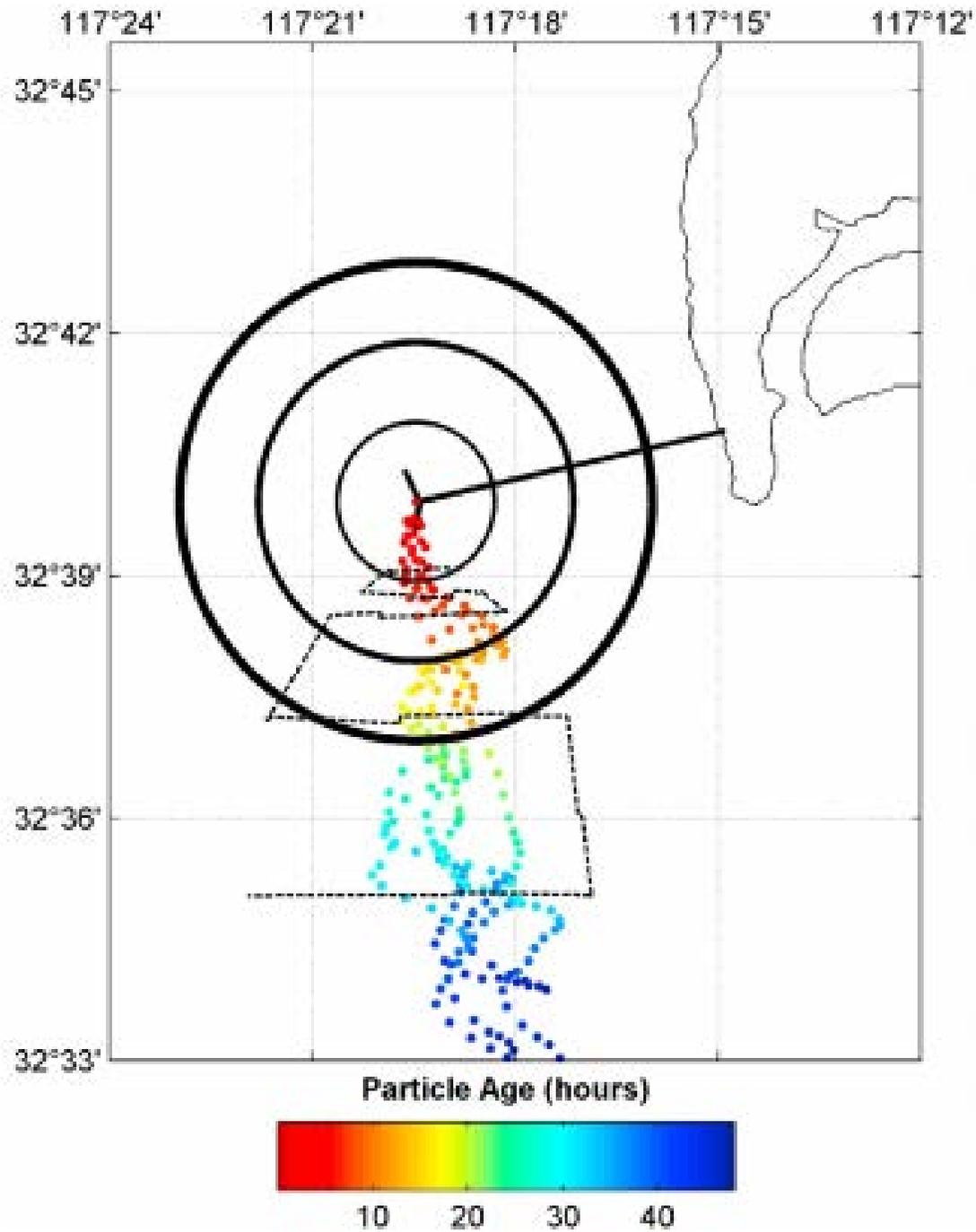
Tentative Order Special Studies

- Plume Tracking Study
 - Map dispersion and fate of the wastewater plume
 - Feasibility Study
 - Evaluate available technology





ADCP



ROTV



Tentative Order Special Studies

- Plume Tracking Study
 - Map dispersion and fate of the wastewater plume
 - Feasibility Study
 - Develop Plume Tracking Monitoring Plan
 - Facilitates Collaboration Among Agencies
 - Plume Tracking Workshop



Tentative Order Special Studies

- Plume Tracking Study Goals
 - Verify or adjust current monitoring locations
 - Confirm Ocean Plan Water Quality Objectives are met
 - Assist with developing a regional monitoring program



Tentative Order Pretreatment Program



Tentative Order Pretreatment Program

- Inventory commercial and industrial users
- Issue permits to industrial user

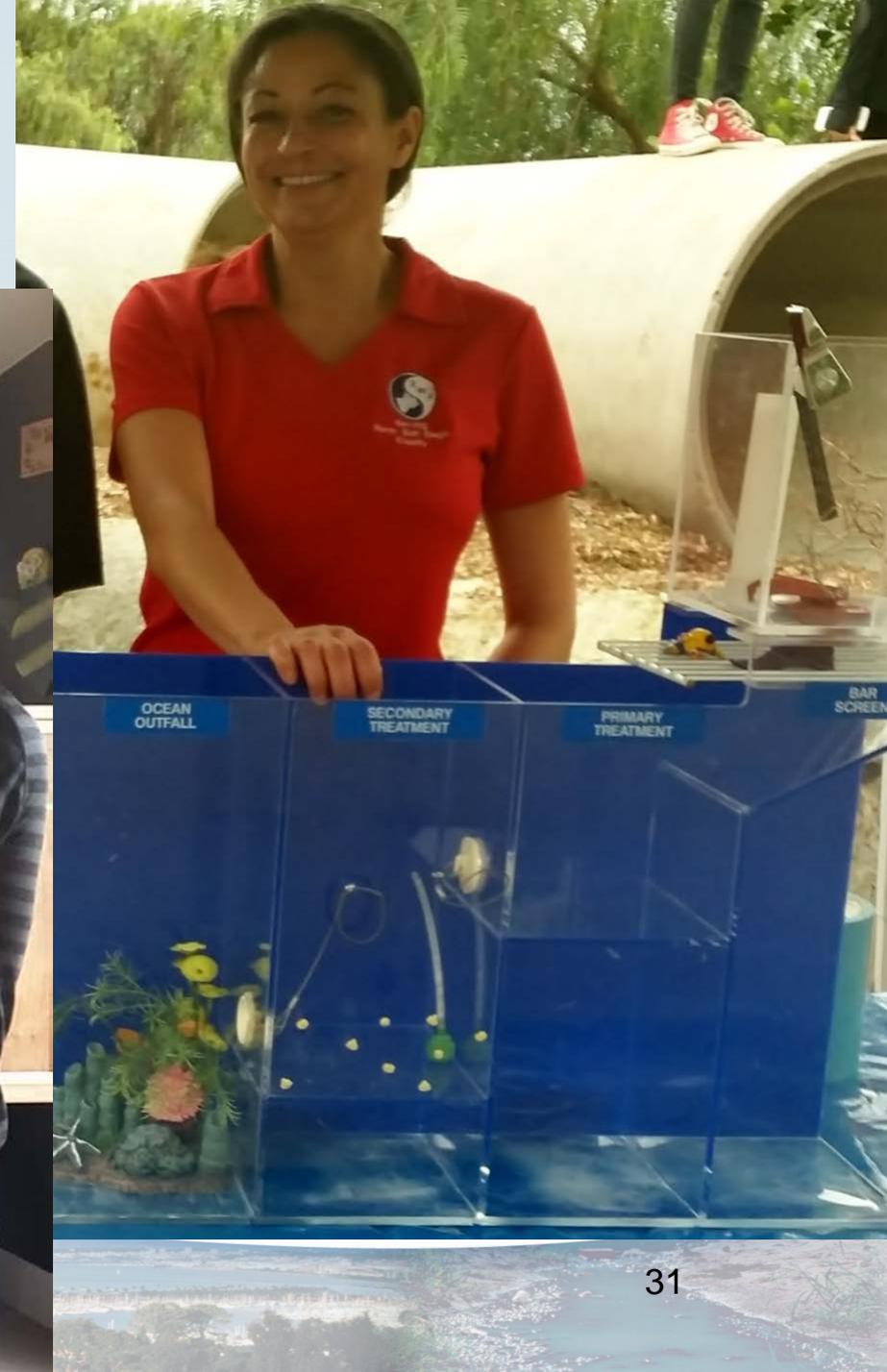


Tentative Order Pretreatment Program

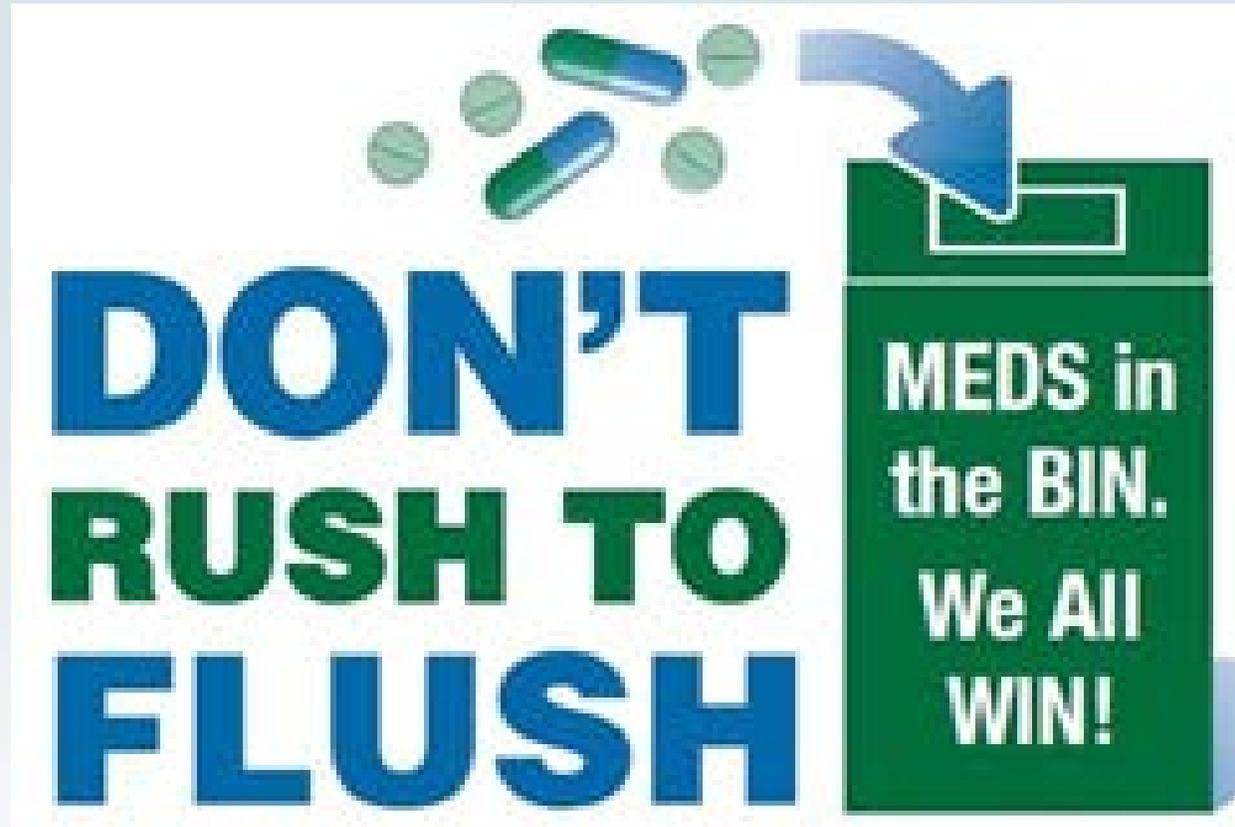
- Inventory commercial and industrial users
- Issue permits to industrial user
- Educate the public



Tentative Order Pretreatment Program



Tentative Order Pretreatment Program

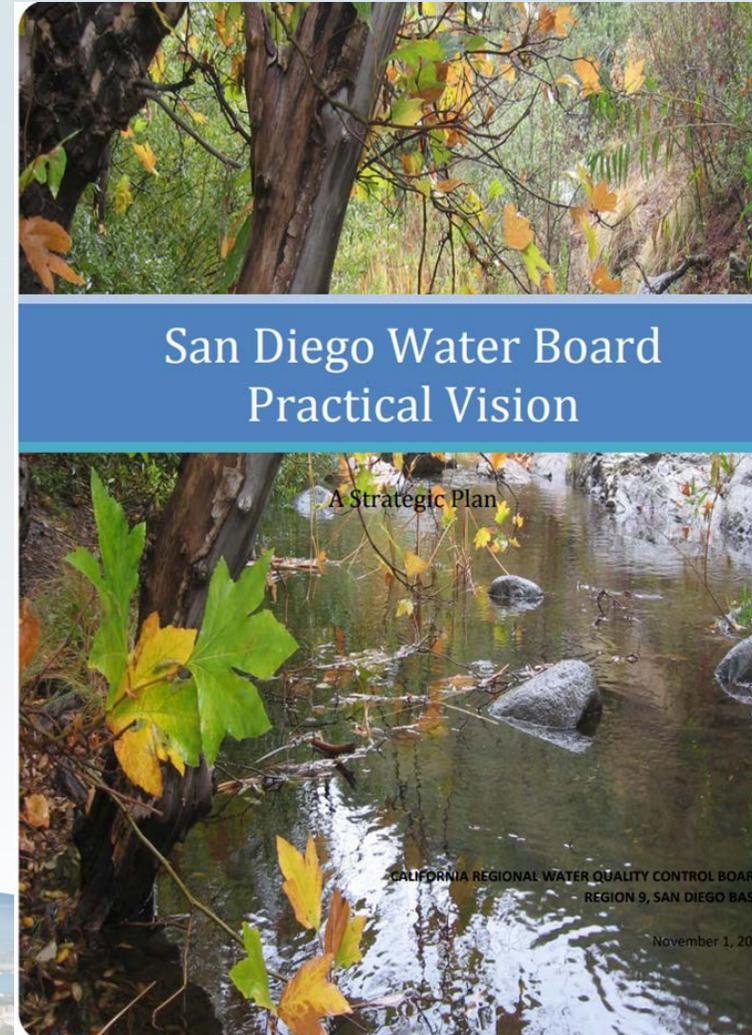


Tentative Order

Receiving Water Monitoring Requirements

Practical Vision

Chapter 4: *Proactive Public Outreach and Communication*



Tentative Order Pretreatment Program

- Pretreatment Compliance Inspections
- Pretreatment Compliance Audits



Public Comments

- Released for Public Comment on June 23, 2018
- Comments Due on July 23, 2018
- No Comments Received

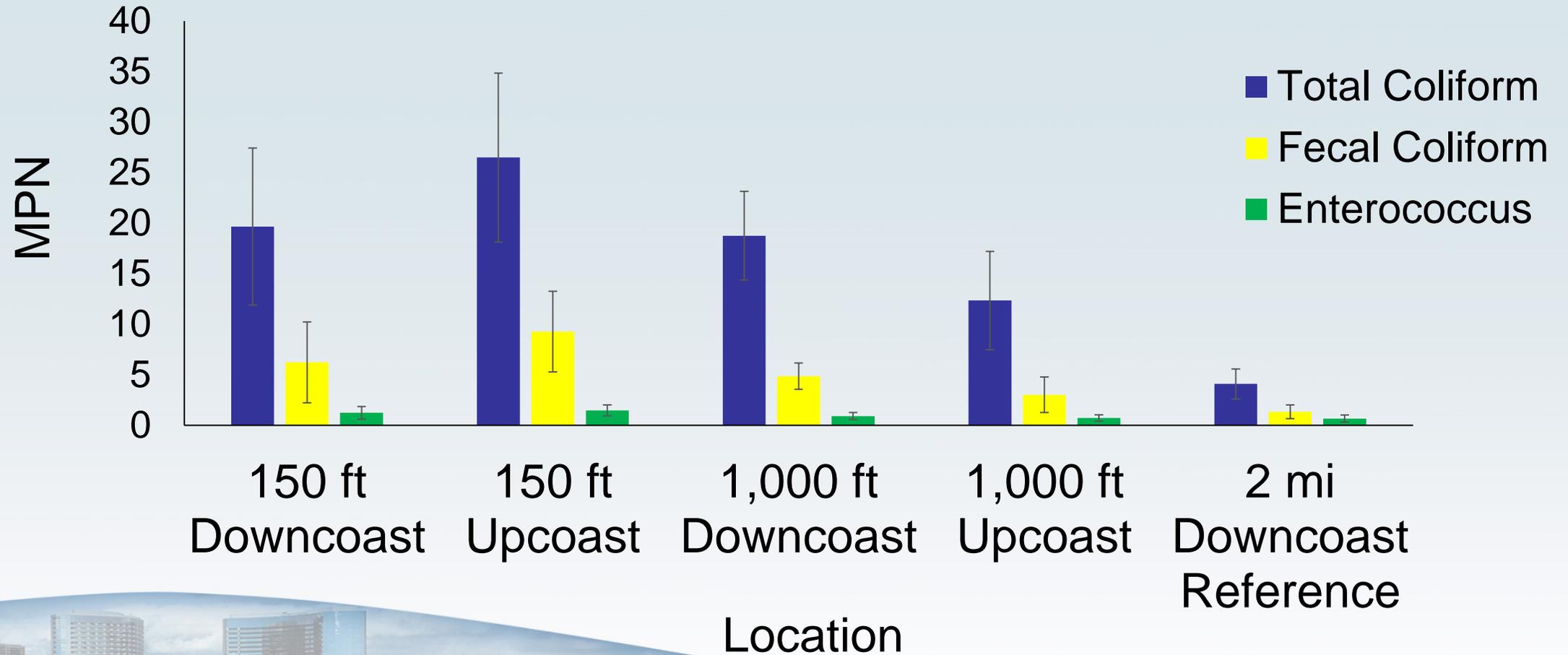


**Adoption of
Order No. R9-2018-0059
is Recommended**





Offshore Fecal Indicator Bacteria



Fish: Species Richness and Abundance

