Meeting Agenda June 8, 2021 11:30 a.m. – 1:00 p.m.



Location: Zoom registration link

https://us02web.zoom.us/meeting/register/tZwrcOurqT8rHNbep0DGS8jHvaxNGuGs2cbu

The mission of Los Angeles Chapter of the WateReuse Association is to enhance the resiliency and sustainability of Los Angeles County by increasing the safe, beneficial use of recycled water. Its objectives shall be to promote water reclamation and recycling as a sustainable supplemental source of water for the state; to work for the adoption of legislation and regulations that allow the safe use of recycled water; to facilitate the development of technology aimed at improving water recycling; to promote legislation that would increase funding for water recycling projects; to provide mutual assistance and support between and among Chapter members involved with water recycling projects; and to increase public awareness and understanding of related water problems and solutions.

Welcome, Introductions and Instructions...... 11:30 a.m.

- 1. Host presentation: Project Research and Automation Through Pandemic Pure Water Demonstration Project, Las Virgenes-Triunfo *(John Zhao and Darrell Johnson / LVMWD, Guy Meiri/IOSight*
- 2. Special Guests: WateReuse California Update (Jennifer West and Paul Sciuto / WRCA)
- 3. Technical Topic: Hyperion MBR Pilot Facility Project Performance Pathway to Hyperion 2035 (Nasir Emami and Kimia Nader-Tehrani / LASAN)
- 4. Water Recycling Legislative/Regulatory Updates (*Raymond Jay*)
- 5. Regulatory Agency Update
 - a. Los Angeles Regional Water Quality Control Board (Xiaofei Cui)
 - b. LA County Department of Public Health (Glenn Van Eekhout)
 - c. SWRCB Division of Drinking Water
- 6. California State Section Update (Rafael Villegas)
- 7. Chapter Updates (Judi Miller)
 - a. Chapter polls
 - b. Approval of April 2021 Member Meeting Summary
 - c. Emerging Professionals Committee Update (Alex Waite)
- 8. Membership Roundtable (Jared Lee)
- 9. Next Meetings
 - August 10, 2021 Virtual
 - October 12, 2021 Host: TBD; Sponsor: TBD
 - December 7, 2021 Host: TBD; Sponsor: TBD
- 10. Adjournment 1:00 p.m.

Los Angeles Chapter Officers for 2019/2021

Fred Gerringer, President	626-319-1107	fgerringer@hazenandsawyer.com
Jared Lee, Vice President	626-379-8443	JLee@burbankca.gov
Judi Miller, Secretary/Treasurer	213-228-8236	judi.miller@jacobs.com
Rafael Villegas, Chapter Trustee	213-367-1289	rafael.villegas@ladwp.com
Raymond Jay, Past-President	213-217-5777	rjay@mwdh2o.com



PURE WATER PROJECT LAS VIRGENES-TRIUNFO

Bringing Our Water Full Circle





Las Virgenes – Triunfo Joint Powers Authority



• Tasting Sink Water Quality





Las Virgenes – Triunfo Joint Powers Authority



 Demonstration Facility Challenge Testing

Parameter	Criteria
Enteric Virus	8-log Reduction ⁽¹⁾
Giardia Cyst	7-log Reduction ⁽¹⁾
Cryptosporidium oocysts	8-log Reduction ⁽¹⁾
Full Advanced Treatment	RO and an AOP that achieves 0.5-log reduction of 1,4-dioxane
norganic Chemicals in Table 64431-A ⁽¹⁾	≤ MCLs
Radionuclide Chemicals in Tables 64442 and 64443	≤ MCLs
Organic Chemicals in 64444-A	≤ MCLs
Disinfection Byproducts in Table 64533-A	≤ MCLs
ead and Copper	≤ Action Levels
Priority Toxic Pollutants in 40 CFR Section 131.38 and DDW-Specified Chemicals	≤ <u>NLs⁽²⁾</u>
Minimum Dilution of any 24-hour input of Recycled Water	100:1 with no additional pathogen log reduction 10:1 with 1-log additional pathogen reduction
Minimum Reservoir RRT	4 months with no additional pathogen log reduction 2 months with 1-log additional pathogen reduction

Table 1-1 Title 22 Reservoir Water Augmentation Requirements for Potable Reuse (DDW, 2018)

(1) Log reductions are from the point of raw wastewater to the point of raw water to downstream surface water treatment plant. If dilution is less than 100-1, one additional log removal is required for all pathogens. If reservoir retention time is less than 4 months, one additional log removal is required for all pathogens. Reservoir retention time must >2 months for all cases.

(2) Notable among which is the NDMA goal of 10 ng/L or less. For discharge to the Las <u>Virgenes</u> Reservoir, due to California Toxics Rule enforcement, the NDMA requirement is 0.69 ng/L, which is below the current laboratory method reporting level of 2 ng/L.





Metropolitan
 Water District
 Artificial
 Intelligence
 Grant







 IOSight implementation for data analytics and real-time system overview supporting operators

hemicals	🗖 Defaul	t time rang	e		
Sodium Hypochlorite Do This Month	sing Points Fle	SHC -	Last 24 Hou	ırs Dosage (*e	comme
O Jun 4. Jun 5. O		Unit	Total Flow (Gallon)	Current Calculated Dosage* (mg/l)	Average Calculated Dosage* (mg/l)
Sodium Hypochlorite 1	Sodium Hypoc	chlorite T	anks	La	ast Day
Tag Value Time					
Tank 7.66 6/7/21 1 (ft) AM	12.00			Jun 04:00	08.00







PURE WATER PROJECT LAS VIRGENES-TRIUNFO

Bringing Our Water Full Circle



Las Virgenes – Triunfo Joint Powers Authority









Turning Data-Driven Water Management From Vision into Reality

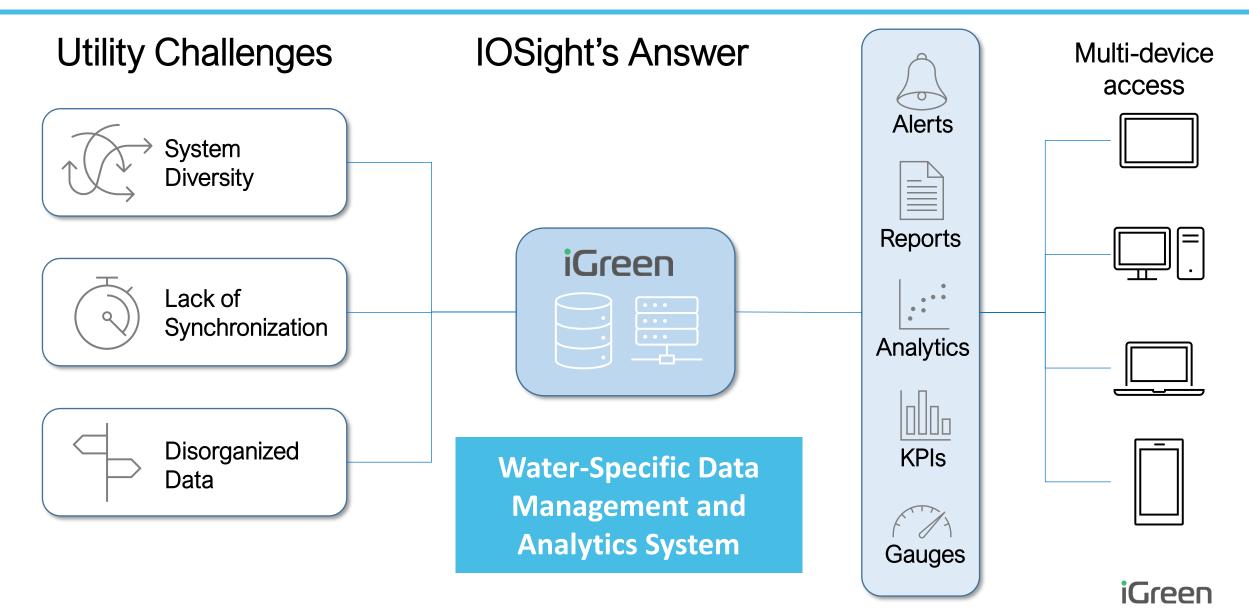
WateReuse Los Angeles 8 June 2021





The Challenge – Turning Data into Actionable Insights





Our Clients – Examples

MEKOROT

ISRAEL NATIONAL WATER CO.

OMIS





SAREK DESALINATION

ViaMaris

Water and Wastewater Utilities and Facilities



Desalination





IDE

WATER AUTHORITY









someoned infrastructure

Carlshad Desalination Plant

Limassol Water Co Ltd

Watersheds and Environment





3 www.iosight.com



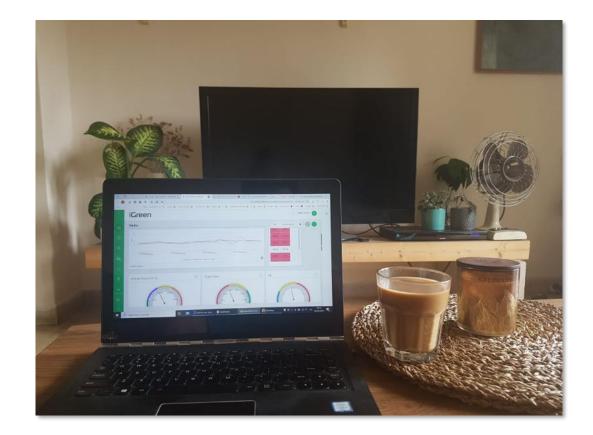
Continuity

Comprehensiveness

Convenience

Collaboration

Cyber Security





The New Normal – Post COVID-19



iGreen Implementation at LVMWD – Timeline



<u>Wave 1</u>	Wave 2	Wave 3		
Potable Water	Reclaimed Water	Pure Water		
Distribution Network	Distribution Network	Demonstration		
Westlake Reservoir and Filtration Plant	Laboratory	Facility		
		••••••		
March – June 2020	January – April 2021	June – December 2021		
100% remote project management and execution				



5 www.iosight.com

IOSight Proprietary Data

Wave 1 March – June 2020



Westlake Reservoir, Filtration Plant

Potable Water Distribution Network

- Operational and management insights
- Web and mobile dashboards
- Management reports
- Flows, water levels, quality, energy, chemicals





Wave 2 January – April 2021



		iGreen				Ç	Hello, admin
		Quality (LAB) - New		Default	t time range	0 8 (
Reclaimed Water Distributi	on Network	Residual Chlorine (mg/l)		Е	Turbidity (NTU)		I
		Unit	Current (Last 7 Days)	Previous	Unit	Current (Last 7 Days)	Previous
		9240 NOTRE DAME (F2)	1.34	1.26	9240 NOTRE DAME (F2)	-0.1	-0.1
PS Status			2.25	0.79	5860 LAKE LINDERO DR (E8)	0.11	0.1
- PS SIdius	iGreen	💭 Hello, admin \Lambda	2.43	2.49	25530 PRADO DE ORO (E11)	-0.1	0.12
	Potable Supplement 🗖 Default time range		2.49	2.45	24602 PALERMO (E12)	-0.1	0.1
	Potable Supplement 🖻 Default time range 🧿		2.39	2.38	22755 PAUL REVERE (F13)	+0.1	0.1
Ганиа	Tag Value			1.5	24524 PIUMA ROAD (H15)		-0.1
Flows	Today (Total) 0(MG)			1.95	25672 BUCKHORN (H16)		-0.1
	5 250.0 500.0 759.0 Yesterday (Total) 29,026.36 (MG)		2.45	2.43	2200 E. LAKESHORE DR (E18)	-0.1	-0.1
	Morrison Supplement Flow (MGD): 0 (Total) 0.58(MG)			1	Temperature (C)		I
Tanks	MGD This Month 2.Jun 2.Jun 3.Jun		Current (Last 7 Days)	Previous	Unit	Current (Last 7 Days)	Previous
TUTING	6/5/21.2.2.5.16 AM 0.5(MG) Morrison Supplement Flow (MG)	•)	7.8	7.7	9240 NOTRE DAME (F2)	21.3	20.8
	Yearly Potable Supplement Flow Breakd 🕴 Monthly Potable Supplement Flow Break 🗄 Daily Potable Supp	ement Flow Breakdon	8.2	8.1	5860 LAKE LINDERO DR (E8)	18.5	19.4
	Current Year This Month Last Day		8.2	8.3	25530 PRADO DE ORO (E11)	16.2	16.9
	1.29 0.5 0.03		8.2	8.3	24602 PALERMO (E12)	16.1	16.1
	iGreen					Hello, admin	
Laboratory	Monthly View		Default time range		686	0.0	
	14.13 3.22 Monthly Total Inle						
		Flow	Last Year I Monthly	Total Inlet Flow	- Breakdown	Last Vear	
	14:13 3.22 № 6% Monthly Total Inle ● Reservoir 2 ● Montion ● Cordillera ■	Flow	Last Year 🚦 Monthly	Total Inlet Flow	- Breakdown	Last Year 🚦	
		Flow			- Breakdown	Last Year 🚦	
			Last Year i Monthly		- Breakdown	Last Year	
					- Breakdown	Last Year 🚦	
		Flow			• Breakdown	Last Year I	
Management Dashboards		Flow		ul 20 Sep 20	- Breakdown	May 21	
Management Dashboards	Reservoir 2 Montison Cordillera Preservoir 2 Montison Cordillera		May 21	ul 20 Sep 20	Nov 22 Jan ² 21 May 21	May 21	
Management Dashboards	Reservoir 2 Morrison Cordillera Preservoir 2 Morrison Cordillera Flow Statistics		May 21	ul 20 Sep 20 • LV-2 PS-M0 • Tw	Nov 20 Jan 21 Mar 21 In Lakes PSMG + Westlake PSMG + Conduct PSH	May 21	
Management Dashboards	Reservoir 2 Morrison Cordillera Peservoir 2 Morrison Cordillera Flow Statistics Tag		May 21	ul 20 Sep 20 • LV2PSM0 • Tu Value	Nov 20 Jan 21 Mai 21 Nov 10 Jan 21 Mai 21	May 21	
Management Dashboards	Reservoir 2 Morrison Cordillera Peservoir 2 Morrison Cordillera Fiow Statistics Tag Total Quantity	ар ⁵ 20 Nov 20 Jan 21 Mar 21 • Total Inter Flows-MG	May 21	и 20 вер 20 . ЦУ2 РБМО - Ти Value 7,004.5	Nov 20 Jan 21 Mai 21 Nov 20 Jan 21 Mai 21 In Lakes PSMG • Westlake PSMG • Conduct PSM	May 21	
Management Dashboards	Reservoir 2 Morrison Cordillera Preservoir 2 Morrison Cordillera Flow Statistics Tag Toral Quantity Average Morrish? Quant	sip 20 Nov 20 Jan 21 Mari 21 • Total Inder Flows-MG	May 21	U 120 Sep 20 . US2PSM0 - Te 7,004 5 576.90	Nov 20 Jan 21 Mai 21 nov 20 Jan 21 Mai 21 nin Laites PS-MG + Weetlake PS-MG + Conduct PS- R6(MG) MG)	May 21	
Management Dashboards	Reservoir 2 Morrison Cordillera Peservoir 2 Morrison Cordillera Fiow Statistics Tag Total Quantity	ag 20 NoV 20 Jun 21 Mar 21 • Total Inter Prove-MG	May 21	и 20 вер 20 . ЦУ2 РБМО - Ти Value 7,004.5	Nev 22 Jan 21 Mar 21 Nev 29 Jan 21 Mar 21 Min Lakes PS-MG + Weetlake PS-MG + Conduct PS- R6(MG) MG) (MG)	May 21	



Outcomes and Value for LVMWD



- **Comprehensive view of KPIs** across the system
- Ability to make **real-time data-driven decisions**
- Elimination of heavy manual work
- Clear view of water quality across the system
- Ability to scale-up and across the organization from management to the operational teams
- Secure | Anytime | Anywhere | Any device
- A platform for developing and integrating sophisticated AI/ML solutions for optimization and anomaly detection





- Clear need
- Will "can do" attitude
- Flexibility and openness
- Team chemistry
- Technology



Wave 3 Kick-off June 2021

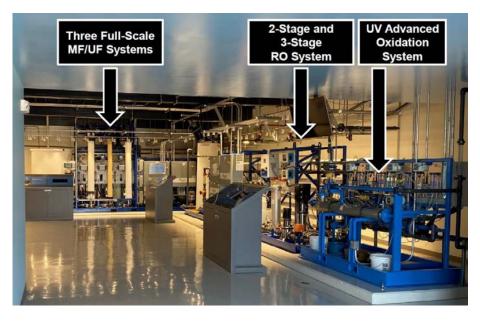


Pure Water Demonstration Facility

- Dashboards and reports
 - Plant balance
 - RO, UF, UV performance
 - RO normalization
 - Chemical consumption

 Optimization – with Carollo Engineers, Yokogawa











Thank You

Guy Meiri, Head of Business Development guy@iosight.com

+972-54-4290582



Source Reuse CALIFORNIA

Los Angeles Chapter June 8, 2021





2021 WateReuse California ANNUAL CONFERENCE SEPT 19-21, 2021 • LOS ANGELES

BUILDING A RESILIENT FUTURE TOGETHER



WRCA Business

Strategic Plan Update – September 2021 Adoption Planned

New Standing Ag Reuse Committee

Communications Collaborative Group



Drought Package Update

CA Budget Surplus, Recycled Water Funding:

- Governor's Drought Climate Plan
 (\$150 million RW <u>and</u> Groundwater over 4 years)
- Senate Pro Tem Drought Package (\$200 million RW –shovel ready Projects)
- Assembly Budget Plans (??)
- JUNE 15 DEADLINE FOR BUDGET Trailer Bills?



Federal Water Infrastructure Package

Bureau of Reclamation Title XVI
\$100 million per year (8 to 10 years)

• EPA Alternative Water Source Grant Program

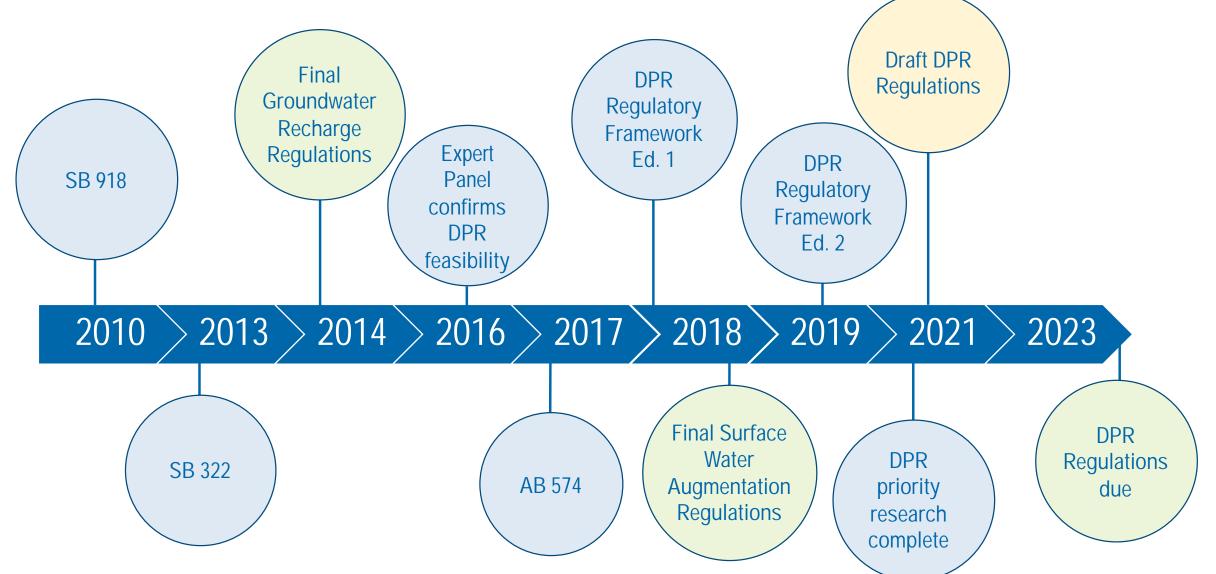
\$100 million per year (8 to 10 years)





7

The Path to Direct Potable Reuse



Major DPR Comments

Differentiae between RWA and TWA

Pathogen LRV Requirements Higher than Expected Seeking Guidance from Expert Panel for RWA and TWA

Specify performance goals and reduce prescriptive design criteria: Ex BAC/O3

Remove requirement for online monitoring of the sewershed

New Safety Plan: Streamline redundant plans

AWT 5 Operators 24/7: revise to allow some flexibility

WUE Regulatory Update

Potable Reuse Bonus Incentive

High TDS Variance for Recycled Water

Indoor water use standard study

Questions?



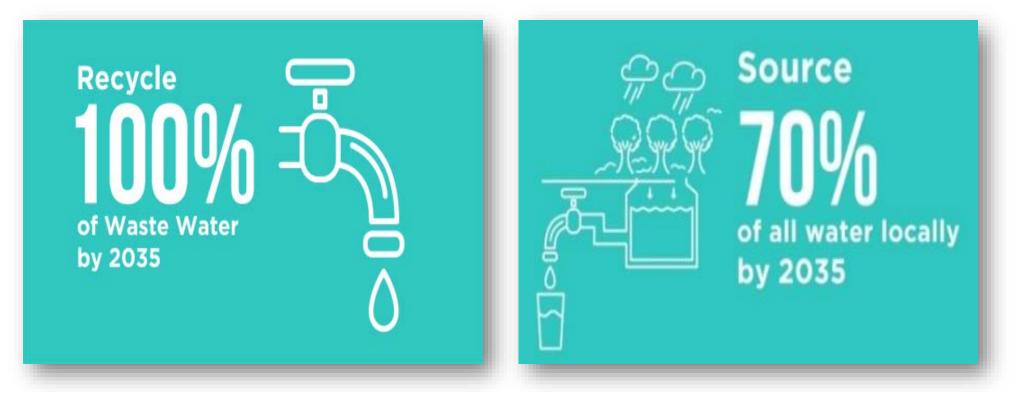
Hyperion MBR Pilot Facility Project Performance Pathway to Hyperion 2035

Nasir Emami Kimia Nader-Tehrani Water Recycling Implementation Division LA Sanitation and Environment

Tuesday, June 8, 2021

00% /ATER ECYCLING

Hyperion 2035 Program Goals Mayor Garcetti's LA Green New Deal



Implement 100% water recycling using full advanced treatment by 2035

Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting



LASAN Wastewater System Overview

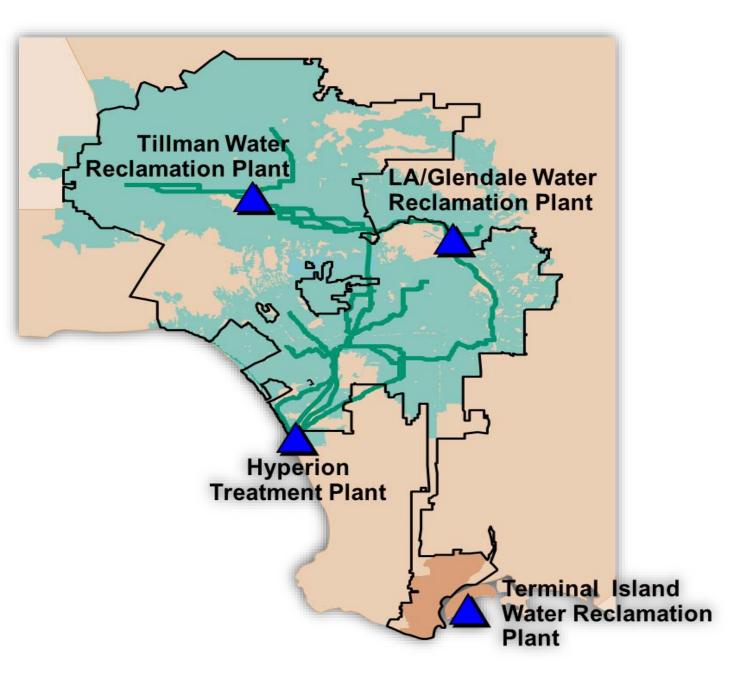
Hyperion Service Area Information

- Population Served: 4,000,000
- Area served: 600 Square Miles
- Sewer System Length: 6,700 Miles
- Average System Flow: 306 MGD

Hyperion Service Area: 3 Interconnected Plants

- Tillman Water Reclamation Plant
- Los Angeles Glendale Water Reclamation Plant
- Hyperion Water Reclamation Plant
- **Terminal Island Service Area**
 - Average System Flow: 12 MGD

Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting



Citywide Water Recycling Perspective

Plant	Treated Wastewater (MGD)	Recycled Water (MGD)	RECYCLE
HWRP	260	71	27% Recyc
DCTWRP	33	33	100% Recy
LAGWRP	14	14	100% Recy
TIWRP	14	12	100% Recy
TOTAL	321	130	

Beneficial Reuse:

HWRP: In-Plant Water DCTWRP: In-Plant Water, Japanese Garden, Balboa & Wildlife Lakes, LA River LAGWRP: In-Plant Water and LA River TIWRP: In-Plant Water

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ED WATER AND BENEFICIAL USES %

- cled and Beneficially Used
- cycled and Beneficially Used
- cycled and Beneficially Used cycled with AWPF

Hyperion Water Reclamation Plant

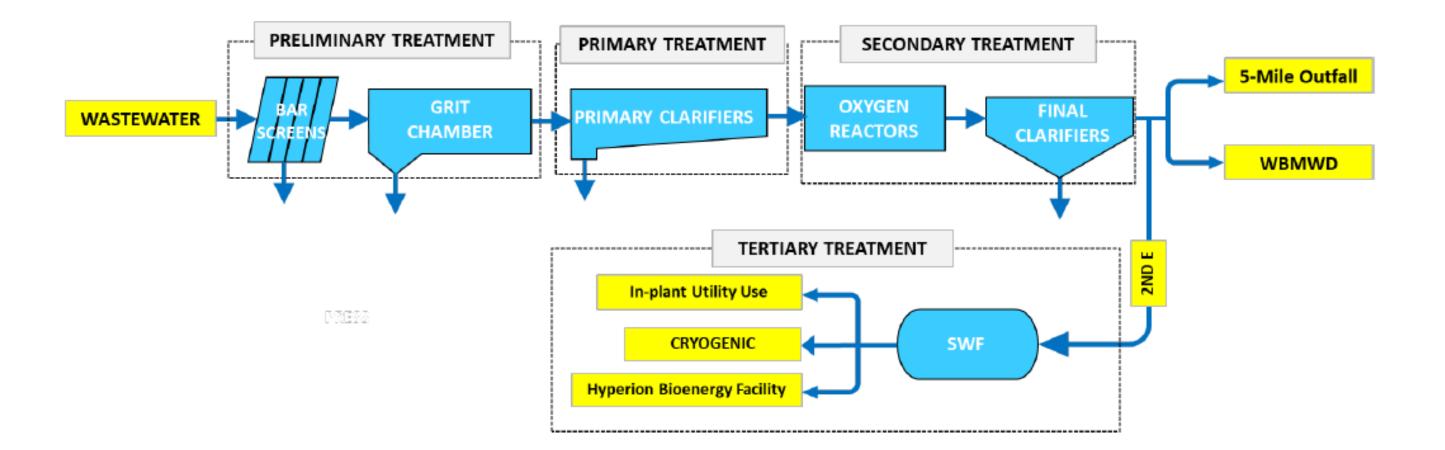


- In operation since the 1890s
- Full secondary treatment facility utilizing high purity oxygen-activated sludge (HPOAS)
- Effluent discharged to the Santa Monica Bay through a five mile outfall
- Solids processing units centered on anaerobic thermophilic digestion
- LASAN has recently begun operations of the new Hyperion Bio-Energy Facility (BEF)

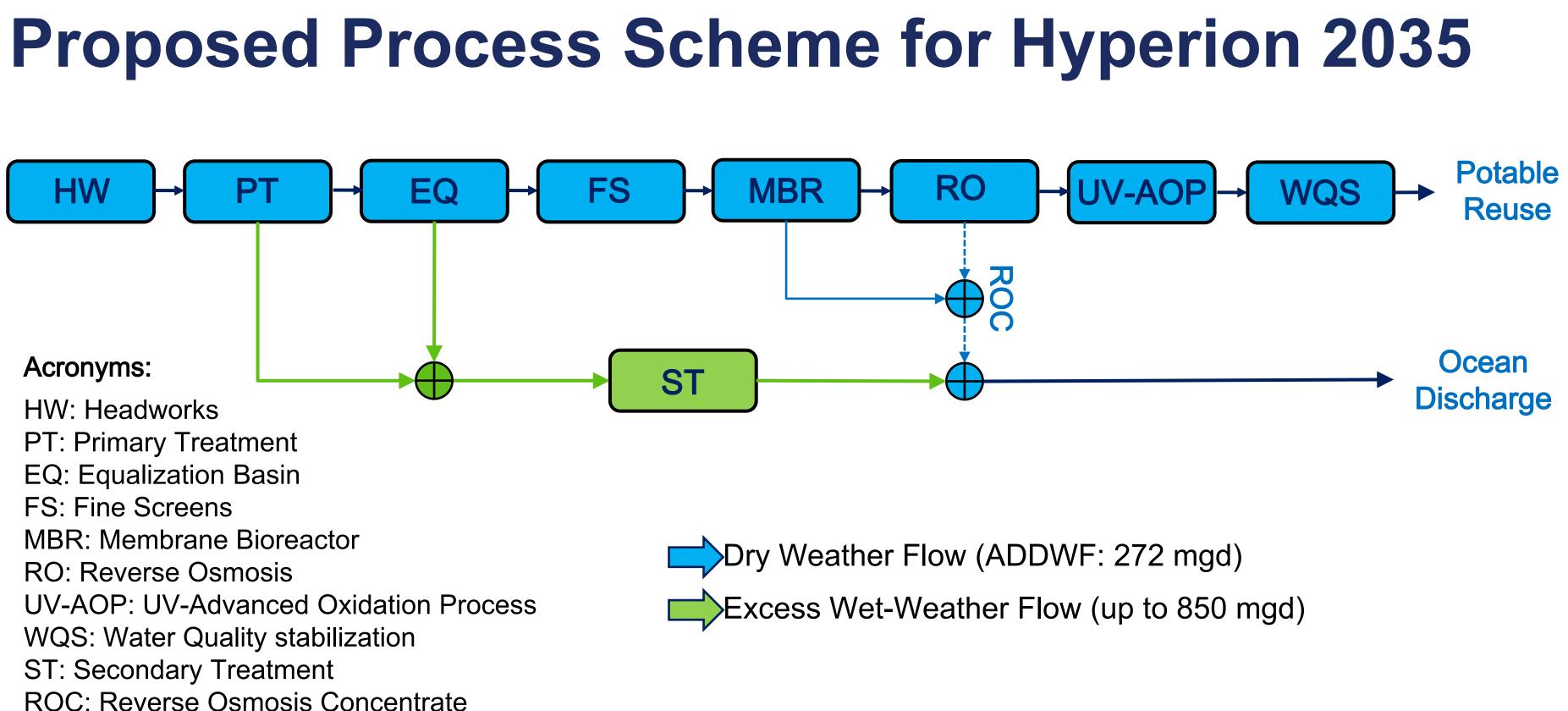


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Hyperion WRP Treatment Train

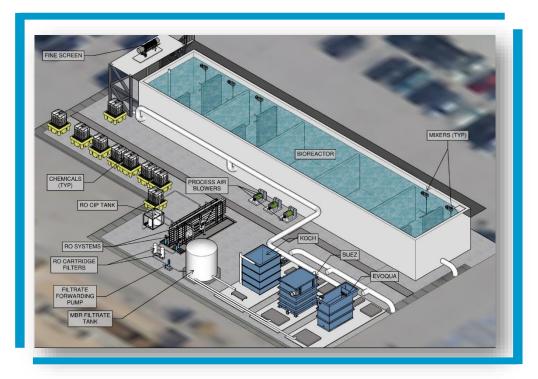


Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting LASANITATION



Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting

MBR Pilot Project Goals



- A joint effort between the LASAN, LADWP, and WBMWD
- Obtain regulatory approval for potable reuse applications •
- Compare the MBR systems from three major vendors •
- •



Membrane Bioreactor



Reverse Osmosis



Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting

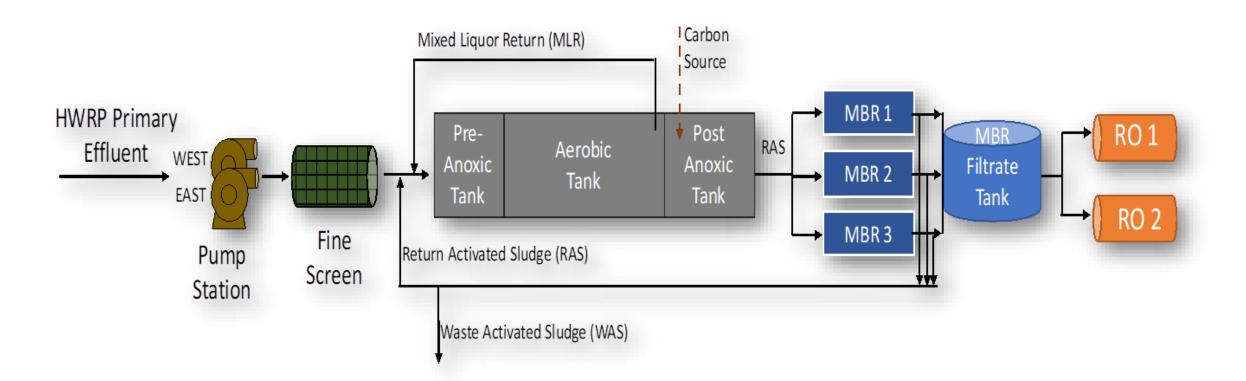
Develop performance and design criteria for the Hyperion 2035



Ultraviolet / Advanced Oxidation Processes

Pilot Description – Main Features

- 2-mm Internally-fed Rotary Drum Fine Screen \bullet
- **Membrane Bioreactor** \bullet
 - Pre-Anoxic/Aerobic/Post-Anoxic plus 2 Swing Zones with RAS and internal recycle
 - Ability to add supplemental carbon
 - **Pressure Decay Test capabilities**
- RO: Two 3-stage systems capable of operating as 2-stage systems



Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting ASANITATION

Testing & Monitoring Plan Objective

MBR Testing

- Process acclimation and determination of sustainable membrane flux
- Develop Tier 2 operating envelope for low loading (IPS West)
- Develop Tier 2 operating envelope for high loading (IPS East)

RO Testing

- Determination of optimum process parameters
- Enhanced pathogen credits through RO

UV-AOP

- Measure NDMA UV dose-response
- Measure NDMA reformation potential following UV AOP
- Measure 1,4-dioxane UV and oxidant dose response

ROC

Future waste discharge compliance assessment

Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting





City of Los Angeles Bureau of Sanitation Hyperion MBR Pilot Facility

TESTING AND MONITORING PLAN

FINAL DRAFT | March 2020



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LRVs for Groundwater Recharge

Unit Process	Log Removal Credits			
	Viruses	Cryptosporidium	Giardia	
DDW Requirements	12	10	10	
Primary/Secondary Treatment ⁽¹⁾	-	_	-	
MBR	1.0 /~3.0(4)(5)	2.5 / ~4.0(4)(5)	2.5 / ~4.0 ⁽⁴⁾⁽⁵⁾	
RO	1.5 – 3.0	1.5 – 3.0	1.5 – 3.0	
AOP	6.0	6.0	6.0	
Groundwater Retention Time (Months) / Log Credits ⁽²⁾	1.5 ⁽³⁾	0.0	0.0	
 DDW has now stated that the estimated pathogen removal by primary and secondary treatment must be demonstrated on site for all new projects. Minimum groundwater retention time of 2 months required. Virus credits based upon 1-log die-off per month in the subsurface. Minimum time shown in this example to obtain the full 12-log credit total. Other treatment could be added, such as free chlorine, 				

- In this example to obtain the run 12-log credit total. Ou that would allow the groundwater retention time to be reduced to 2 months, DDW mandated minimum time.
- 4. 3+ log removal of all pathogens anticipated based on SCVWD (2017) and Steinle-Darling et al.(2021).
- 5. The first value is Tier 1 approved, and the second value are anticipated for Tier 2.

Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting

MBR Tiered Comparison

Tier	Benefits	Drawbacks	Cost to implement
1	 WRF Tier 1 Research Complete Baseline LRVs established 1 LRV Virus 2.5 LRV Protozoa 	 Very conservative 	• Low
2	 Substantially increased LRVs 3+ LRV Virus 4+ LRV Protozoa 	 Extensive sampling required 	 High analytical costs to continue to demonstrate performance per WRF Tier 2 Protocol
3	 Increased confidence in water quality based upon surrogate measurements LRVs likely similar to Tier 2 	 Concepts still in R&D with WRF Tier 3 	 Costs TBD, could be lower c similar to Tier 2

Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting LASANITATION

Construction Progress of MBR Pilot Facility Project





Groundbreaking Ceremony (July 2020)



Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting

Construction Progress (June 2021)

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Path to Regulatory Approval

July 2020	September 2020	Octobe
Kick-off with Division of Drinking Water	Kick-off with Independent Advisory Panel	Start inst
March 2022	April 2022	April 2



Hyperion MBR Pilot Project: LA WateReuse Virtual Bimonthly Member Meeting



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THANKYOU LACITYSAN.ORG nasir.emami@lacity.org kimia.nader-tehrani@lacity.org

A CITYSAN

Regulatory

Pathogen Reduction Log Credits

- Reverse Osmosis
 - EC and TOC
 - Mg, Sr, Fe, SO₄, PO₄

Value	Units	Method	Size (Dalton)	LRV from Min Concentration in Filtrate	LRV from Max Concentration in Filtrate
TDS	mg/L	SM 2540 C	N/A	1.48	1.17
TOC	mg/L	SM 5310 C	N/A	1.12	1.30
Magnesium	mg/L	EPA 200.7	0.8	1.98	1.87
Strantium	ma/l	EPA 200.7	1.2	1.34	1.63
Strontium	mg/L	EPA 200.8		2.04	1.86
Iron	mg/L	EPA 200.7	0.75 - 0.92	2.14	1.88
Sulfate	mg/L	EPA 300.0	2.6	1.96	1.76
Phosphate	mg/L	SM 4500P-E	2.8	2.08	1.84



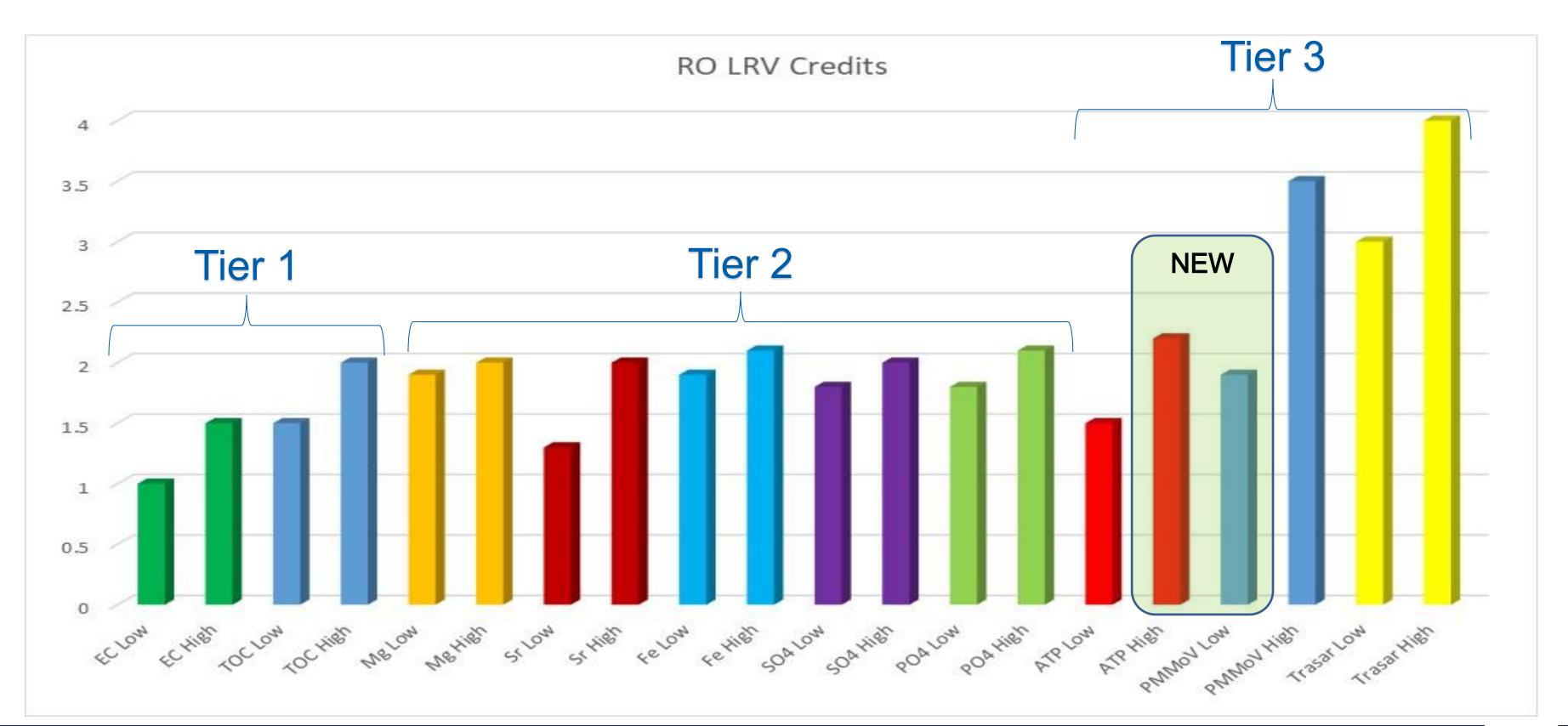
Hyperion MBR Pilot Project: DDW-RWQCB Briefing

Tiered RO Credit Possibilities

Tier	Benefits	Drawbacks	Cost to implement
1	 Proven (accepted in CA) Statistical methods could increase EC sensitivity 	 Insensitive to small performance changes Bulk parameters that do not meet the MFGM 	 EC probes - small TOC probes - high
2	 Marginally increased LRV from ~1.5 to >2. Provides secondary or tertiary measurements to backup EC and TOC 	 Daily laboratory effort 	 Analytical costs
3	 Leap forward in LRV High sensitivity to RO performance changes 	 Lack of installed experience Uncertainty on ATP results 	High equipment costs for TRASAR

Hyperion MBR Pilot Project: DDW-RWQCB Briefing

Tiered RO Credit Possibilities

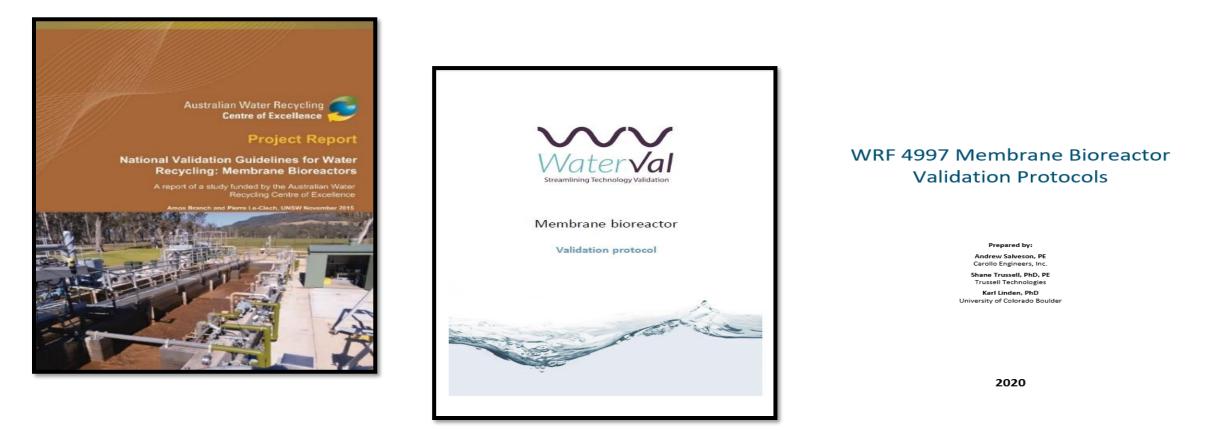




Hyperion MBR Pilot Project: DDW-RWQCB Briefing

Regulatory

- Compliance Title 22, Basin Plan, Ocean Plan, NPDES
- Pathogen Reduction Removal Credits
 - MBR Process 3 different membrane filtration systems, following WRF protocols







Hyperion MBR Pilot Project: DDW-RWQCB Briefing

Tier 1 LRVs

- 1 virus
- 2.5 protozoa Tier 2 LRVs
- >3 expected
- Build upon MWD/LACSD efforts

WateReuse California Los Angeles Chapter Meeting



June 8, 2021 Legislation & Regulation Update

Raymond Jay Metropolitan Water District of Southern California (213) 217-5777 or rjay@mwdh2o.com

2021 California Legislative Calendar

🧕 Jan. 1

Jan. 10

Feb. 19

Apr. 30

May 7

June 4

June 15

🔮 Sept. 10

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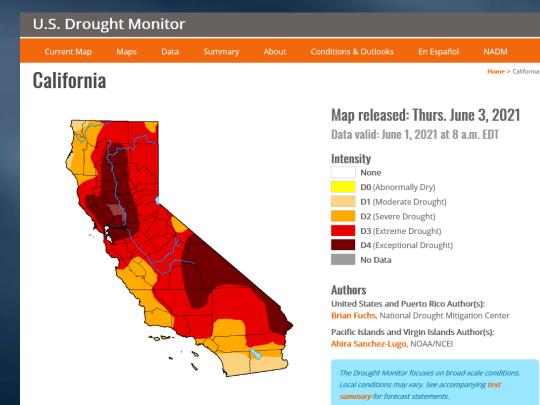
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- Statutes take effect
- Jan. 4 Legislature reconvenes
 - Governor submits budget to Legislature
 - Last day for bills to be introduced
 - Last day policy comm. to report fiscal bills
 - Last day fiscal comm. to report fiscal bills
 - Last day for bills to pass house of origin
 - Last day to pass budget
 - Last day for any bill to be passed
- Oct. 10 Last day for Governor to sign or veto bills
- See: <u>http://assembly.ca.gov/legislativedeadlines</u>

Drought

- Governor declared drought emergency in 41 of 58 counties
- Southern California has sufficient storage for next few years



California Budget and RW Funding

Governor's Budget- \$5.1B with \$150M for RW

Senate proposal ~ \$3.4B with \$200M for RW

Assembly proposal – still being drafted

California budget approval deadline - 6/15/2021

Legislation: 2-year bills

- SB 45 (Portantino): Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2022
- AB 1500 (Garcia): Safe Drinking Water, Wildfire, Drought, Flood Protection, and Workforce Development Bond Act of 2022
- AB 836 (Gabriel): CBSC: recycled water: nonpotable water systems
- AB 1434 (Friedman): Urban water use objectives: indoor residential water use

Regulatory update

Cross Connection Control Handbook – Title 17

- Use of Swivel-ell requirements
- First Public Hearing April 27
- DDW is evaluating comments
- Second public comment, Public Hearing, & Board adoption : TBD
- https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/cccph/cccph_draft_feb2021.pdf
- https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/cccph.html
- Water Use Efficiency Implementation

RW variances and potable use credit Workshop June 10, 2021

DPR Draft Regulations update

- Adopt regulations by 2023
- Framework Addendum 3/22/21
- https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/direct_potable_reuse/dprframewka ddendum.pdf
- Comments/concerns identified
 - RWA vs TWA requirements
 - Operator requirements
 - Pathogen LRV requirements
 - Treatment flexability
 - Direct Potable Reuse Responsible Agency (DiPRRA)
 - Technical, Managerial, and Financial (TMF) Capacity
- Comments due by June 25, 2021

Federal Update

- Infrastructure
- Proposed FY 22 Funding
 - USBR Funding mostly for Safety of Dams and CalFED
 - Title XVI and WIIN funding is very low
 - EPA Funding includes moderate increases
 - WIFIA = \$80M; CWSRF = \$1.87B; DWSRF = \$1.36B
 - PFAS = \$75M
- Nominations awaiting final confirmation

Questions?

If you have any questions, please contact:

Raymond Jay, Past President

SANGELES

c/o Metropolitan Water District of Southern California 700 N Alameda Street Los Angeles, CA 90054 (213) 217-5777 rjay@mwd.h2o.com

Regulatory Agency Updates

Los Angeles Regional Water Quality Control Board - Xiaofei Cui

Los Angeles County Department of Public Health - Glenn Van Eekhout

State Water Board Division of Drinking Water

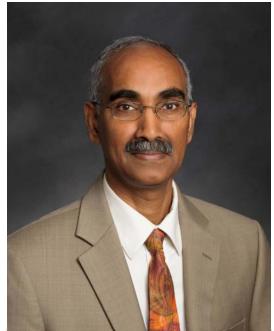




Last WateReuse CA Board of Trustees Meeting: May 14, 2021 Board Changes

- Adoption of Revised Charter in September
- Dawn Taffler new WRCA treasurer
- Replacing Prabhakar Somavarapu

Thank you to Prabhakar Somavarapu for his commitment to WateReuse and leadership in water recycling. Prabhakar has served as WRCA president, vice-president, and secretary of WateReuse California.



Thank you



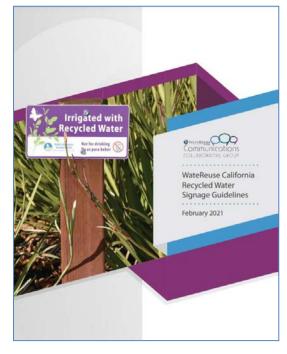
Communications Collaborative Group Update

- April 28th Meeting on Recycled Water Signage
- May 27th OCWD WateReuse: Where Are We Now and Where Are We Going?
- August 4th TBD

FREE WEBINAR - THURSDAY, MAY 27 @ 1PM Water Reuse: Where Are We Now, and Where Are We Going?

IPR, DPR, or both? What should agencies consider when developing a water reuse project? Hear from experts in the field on lessons learned, best practices, and what's to come.







CA Senate Drought Relief Package - \$3.4B

- \$200M for recycled water
- May 18 Letter from WRCA sent to Senate President Pro Tempore requesting \$750M for Recycled Water

Govt Newsom – CA Comeback Plan

- \$5.1Billion for water infrastructure and drought response
- \$150M over two years for Recycled Water and GW Cleanup

SB 45 and AB 1500 – Climate Bonds

- SB 45 Placed in inactive file 6/1/21
- AB 1500 Likely to be placed on hold as well



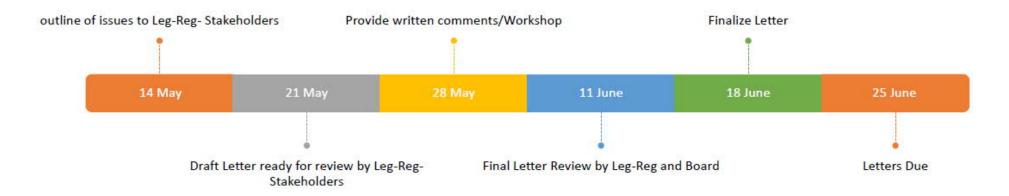
Water Board Appointment Endorsement Policy

 Draft framework prepared for any future endorsement of Water Board appointment or reappointment



Draft DPR Regs Update

- Draft letter developed in collaboration with working group
- Letter to circulated through Leg-Reg Committee





<u>Amicus Assistance – LA Coastkeeper vs State Water Resources Control</u> <u>Board</u>

- LA Keeper challenged four NPDES renewals, arguing permitting agencies have constitutional duty to conduct waste/unreasonable use analysis
- WateReuse will be signing on to an Amicus Curiae Brief in support of Water Board appeal
- Will make \$5k contribution towards legal effort

Comment Letter on Draft Connection Control Policy Handbook

- WRCA submitted a comment letter on April 27th to DDW
- Comments were concentrated on section 3.2.2





2021 WateReuse California ANNUAL CONFERENCE SEPT 19-21, 2021 • LOS ANGELES

BUILDING A RESILIENT FUTURE TOGETHER



Chapter Updates (Judi Miller)

➢Polls

- o #1:
 - Future meetings In-person? Virtual? Both?
 - Do you read the newsletters?
 - Do you read the meeting summaries?
- o #2: April Meeting Summary
- ➢Volunteer Opportunities
 - o Technical Topics Committee Chair (and members)
 - o Membership Committee Chair (and members)
 - o Meeting Summary preparation
 - o Virtual lobby networking host

- Emerging Professionals Committee Update
 - Alex Waite





- Young Member Committee Updates o Rebranding as "Emerging Professionals Committee"
- ➤Seeking LA Chapter members
 - o Planning external events
 - Site walks, facility visits (municipalities and industrial)
 - Professional development presentations/webinars
 - Happy Hours and networking events
 - Coordinating member spotlights and announcements during Chapter meetings
 - Want to highlight an LA Chapter member? Nominate today for a shoutout!
 - Let us know if you received licenses, certifications or awards
- Please join Happy Hour on 6/24/21 at 5:00 PM for icebreakers and planning discussion

Membership Roundtable (Jared Lee)



Next Meetings

≻Tuesday, August 10, 2021 – Virtual

➤Tuesday, October 12, 2021 – In-person?

