Outreach Communications Committee – Zoom Meeting
Tuesday, September 10 @ 2:00-3:00 p.m.

Agenda

- **2:00p – Chair Stacy Taylor, Mesa Water/Sharene Gonzales, Alameda County Water District** – Welcome

- **2:05p – Cal Desal Outreach Communications Review/Updates** (Stacy/Sharene/All)
  - CalDesal Website Review/Updates
  - Social Media Metrics (attachment)
  - Social Media Calendar (attachment)

- **2:20p - Legislative Update** (Glenn)
  - 2024 Legislative Session update
  - CalDesal bill positions:
    - SB 366 (Caballero) – SUPPORT – Governor's Desk
  - Climate resilience bond update (attachments)

. **2:35p - CalDesal Events Update** (Glenn)
  - CalDesal Board of Directors Meeting
    - Wednesday, December 4 – JW Marriott – Palm Desert – 7:00 AM (Hybrid)
  - CalDesal Fall Mixer event
    - Wednesday, December 4 – JW Marriott – Palm Desert – 6:00 PM
  - SAVE THE DATE: 2025 CalDesal Annual Conference – February 5-6 – Pechanga Resort – Temecula, CA
  - Conference sponsorship prospectus (attachment)
  - Preliminary programming concepts + keynote speaker options (attachment)

- **2:40 - Other Business**
  - Gameplan for socializing Miller Marine Science discharge data from the Carlsbad Desalination Facility (attachment)

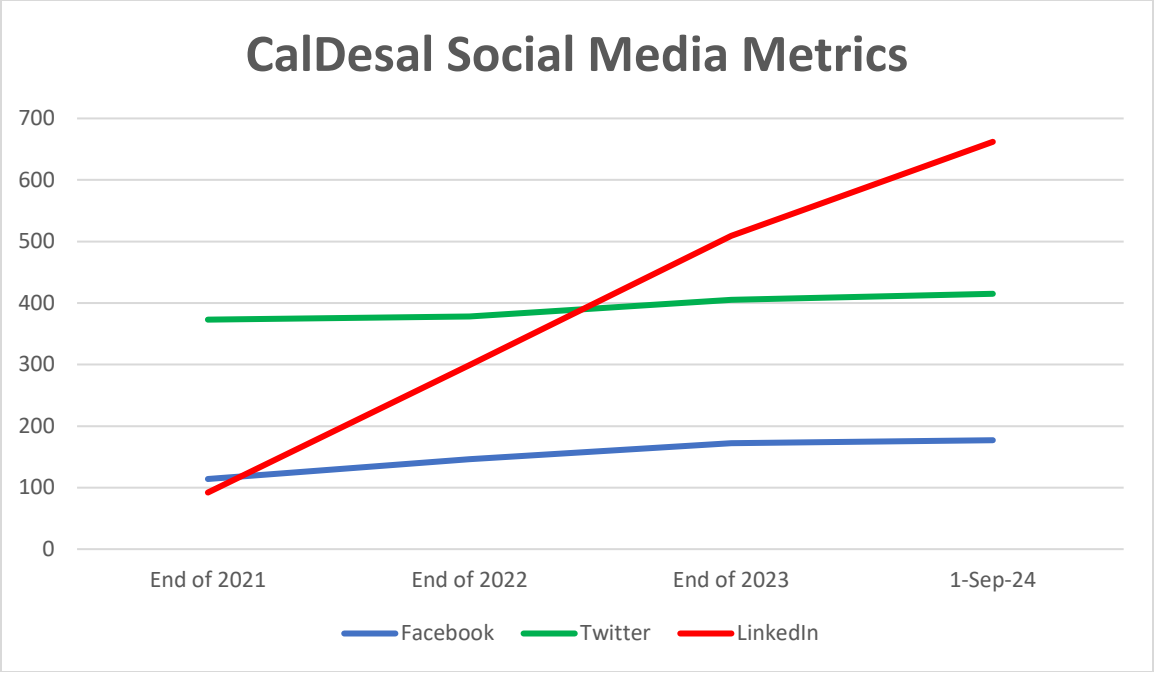
- Preliminary advanced work in preparation for update to California Ocean Plan re: desalination

- Review CalDesal NewsFlash for consideration of formatting, production schedule, and content improvements (attachments)

- **2:55 – Look Ahead**
  - Next meeting: Tuesday, November 12, 2024
  - Review supplemental communications materials – PPT slides, etc. – to ensure consistency and professionalism in formatting, production, and content

Adjourn @ 3:00p

Next Meeting: Tuesday, November 12, 2024 – 2:00 PM



PLATFORM	END OF 2021	END OF 2022	END OF 2023	AS OF Sept 1, 2024	% INCREASE (From 2021)	% INCREASE (From 2023)
Facebook (Total Followers)	114	146	172	177	55%	3%
LinkedIn (Total Followers)	92	299	509	662	620%	30%
Twitter/X (Total Followers)	373	378	405	415	11%	2.5%

CalDesal Social Media Content Calendar

DATE	PLATFORM	TOPIC	CONTENT	NOTES
Week of September 2, 2024	Facebook LinkedIn Twitter	Item from CalDesal NewsFlash		
Week of September 9, 2024	Facebook LinkedIn Twitter	2024 CalDesal Fall Mixer Sponsorships Now Open!		
Week of September 9, 2024	Facebook LinkedIn Twitter	Reminder: Last weeks to submit abstracts for 2025 CalDesal Annual Conference consideration		
Week of September 16, 2024	Facebook LinkedIn Twitter	2024 CalDesal Fall Mixer Sponsorships Now Open!		
Week of September 16, 2024	Facebook LinkedIn Twitter	Reminder: Last weeks to submit abstracts for 2025 CalDesal Annual Conference consideration		
Week of September 23, 2024	Facebook LinkedIn Twitter	2024 CalDesal Fall Mixer Sponsorships Now Open!		
Week of September 23, 2024	Facebook LinkedIn Twitter	Reminder: Last chance to submit abstracts for 2025 CalDesal Annual Conference consideration		
Week of September 30, 2024	Facebook LinkedIn Twitter	2024 CalDesal Fall Mixer Sponsorships Now Open!		
Week of September 30, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		

Week of October 7, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Sponsorships available		
Week of October 7, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of October 14, 2024	Facebook LinkedIn Twitter	2024 CalDesal Fall Mixer Sponsorships Now Open!		
Week of October 14, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of October 21, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Sponsorships available		
Week of October 21, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of October 28, 2024	Facebook LinkedIn Twitter	2024 CalDesal Fall Mixer Sponsorships Now Open!		
Week of October 28, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of November 4, 2024	Facebook LinkedIn Twitter	2024 CalDesal Fall Mixer Sponsorship opportunities closing soon!		
Week of November 4, 2024	Facebook LinkedIn Twitter	One month until CalDesal Fall Mixer in Palm Desert		
Week of November 4, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of November 11, 2024	Facebook LinkedIn Twitter	Last chance for 2024 CalDesal Fall Mixer Sponsorships!		

Week of November 11, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of November 18, 2024	Facebook LinkedIn Twitter	Reminder: CalDesal Fall Mixer in Palm Desert on December 4		
Week of November 18, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Sponsorships available		
Week of November 18, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of November 25, 2024	Facebook LinkedIn Twitter	Happy Thanksgiving from CalDesal		
Week of November 25, 2024	Facebook LinkedIn Twitter	See you next week at the ACWA Fall Conference in Palm Desert for the CalDesal Board of Directors Meeting and CalDesal Fall Mixer – both on Wednesday, December 4		
Week of November 25, 2024	Facebook LinkedIn Twitter	Thank you to all of the generous sponsors for the CalDesal Fall Mixer (Identify)		
Week of December 2, 2024	Facebook LinkedIn Twitter	It's CalDesal Fall Mixer week at the ACWA Fall Conference in Palm Desert – Wednesday, December 4 – 6:00 PM		
Week of December 9, 2024	Facebook LinkedIn Twitter	Thank you to all of the generous sponsors for the CalDesal Fall Mixer (Identify)		

Week of December 9, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of December 9, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Sponsorships available		
Week of December 16, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of December 16, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Sponsorships available		
Week of December 23, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of December 23, 2024	Facebook LinkedIn Twitter	Happy Holidays and Merry Christmas from CalDesal!		
Week of December 23, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Sponsorships available		
Week of December 30, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Registration Now Open!		
Week of December 30, 2024	Facebook LinkedIn Twitter	2025 CalDesal Annual Conference Sponsorships available		
Week of December 30, 2024	Facebook LinkedIn Twitter	Happy New Year from CalDesal!		

Climate Resilience Bond Update

August 2024

Final Bond Breakdown (Content)

BOND CHAPTER	FUNDING ALLOCATION
Safe Drinking Water, Drought, Flood, and Water Resilience	$3.8 billion
Wildfire and Forest Resilience	$1.5 billion
Sea Level Rise and Coastal Resilience	$1.2 billion
Protect Biodiversity and Accelerating Nature-Based Climate Solutions	$1.2 billion
Clean Air	$850 million
Park Creation and Outdoor Access	$700 million
Climate Smart, Sustainable, and Resilient Farms, Ranches, and Working Lands	$300 million
Extreme Heat Mitigation	$450 million
TOTAL	**$10 billion**

Comparison of SB 867 – Climate Resilience Bond Package – With Statewide Coalition Funding Request

WATER RESILIENCE FUNDING CATEGORY	SB 867	COALITION REQUEST
Safe drinking water*	$610 M	$500 M
Groundwater storage*	$386.25 M	$750 M
Water recycling and desalination*	$448.75 M	$1 B
Water storage*	$75 M	$550 M
Water conservation*	$75 M	$400 M
Regional conveyance*	$75 M	$600 M
Dam safety*	$480 M	$700 M
Flood protection and reactivation + stormwater management*	$660 M	$950 M
Watershed resilience	$100 M	$700 M
State Water Project public benefits*	$0	$500 M
Land repurposing program	$200 M	$0
Water data management	$15 M	$0
Rivers, lakes, streams, wetlands	$335 M	$0
Salton Sea Management Plan	$170 M	$0
Streamflow enhancement	$150 M	$0
Nature education facilities	$20 M	$0
TOTAL	**$3.8 B**	**$6.65 B**

*Includes "water infrastructure projects"

Coalition request: **Allocate 2/3 (66%) of $10B climate resilience bond to water infrastructure investment**

SB 867 water infrastructure investment: **~$2.81B = 28% of total bond allocation**

What's Next?

- Senate President Pro Tempore Mike McGuire signed the climate bond on July 3 to place it onto the General Election ballot
- Proposition 4 on November 5 General Election ballot
- Stakeholders (final position on SB 867):
  - ACWA – Neutral
  - State Water Contractors – Neutral
  - Northern CA Water Association – Neutral
  - WateReuse – Neutral
  - CA Municipal Utilities Association – Support
  - Environmental Community – Support
  - Labor – Neutral
  - Individual water agencies – Varied
  - Business Community – Neutral
  - Agricultural Community – Varied

Political Considerations

- Proposition 1 on **March 2024 primary election** ballot
  - Passed with only 50.2% of affirmative vote – with full support by Governor

- **PPIC polling**
  - "*64% of voters say this is a bad time to issue state bonds for state programs and infrastructure projects*" (PPIC June 2024, November Election, State fiscal ballot initiatives discussion)

- **California economy + State fiscal condition**
  - $29 billion budget shortfall for 2024-25
  - Projected $28 billion budget shortfall for 2025-26

- **Proposition 2 on November 2024 General Election ballot** is a $10 billion school facilities bond measure

QUESTIONS?

Desalination Funding Allocation in SB 867/Proposition 4

SB 867 – June 2023 Version	SB 867 – June 2024 Version/Final Version	Key Differences
91015. (a) Of the funds made available by Section 91010, one hundred million dollars ($100,000,000) shall be available, upon appropriation by the Legislature, to the Department of Water Resources for capital investments in brackish desalination, seawater desalination, contaminant and salt removal, and salinity management projects to improve California water and drought resilience. Priority shall be given to projects that use renewable energy and reduce greenhouse gas emissions associated with their construction and operation. (b) For seawater desalination projects described in subdivision (a), priority shall be given to projects that do the following: (1) Incorporate measures to minimize the intake of all forms of marine, brackish, and freshwater life in their construction and operation. (2) Incorporate measures to minimize the adverse impacts of outfalls on marine, brackish, and freshwater life in their construction and operation.	**91016.** Of the funds made available by Section 91010, sixty-two million five hundred thousand dollars ($62,500,000) shall be available, upon appropriation by the Legislature, for capital investments in brackish desalination, contaminant and salt removal, and salinity management projects to improve California water and drought resilience. Priority shall be given to projects that use new incremental eligible renewable energy resources during operation and reduce greenhouse gas emissions associated with their construction and operation.	(1) Reduction in total allocation from $100M to $62.5M (2) Elimination of “seawater desalination” as an eligible project category for funding

Organizational Positions on Proposition 4

ORGANIZATION	PROPOSITION 4 POSITION
Association of California Water Agencies	Neutral
California Municipal Utilities Association	Support
Northern California Water Association	Neutral
Southern California Water Coalition	Neutral
State Water Contractors	Neutral
WateReuse	Legislative Committee recommended Support position to WateReuse Board
CA State Building Trades	Neutral
CA Alliance for Jobs	Neutral
CA Farm Bureau Federation	Neutral
Western Growers	Neutral
Individual Water Agencies	Varies
CA Chamber of Commerce	Neutral (on SB 867)

2025 ANNUAL CONFERENCE

February 5-6, 2025 • Temecula, CA

CalDesal 2025 Annual Conference - Sponsorship Opportunities

Diamond Sponsor: $5000 (1 Available)

- One 6' table exhibit booth with priority booth placement
- Three full complimentary program registrations for the conference
- Logo recognition on signage at the Conference
- Logo/ad on a running PPT slide during the Conference lunch
- Logo recognition in the event program
- Logo recognition on the CalDesal website during the month of the conference
- Logo recognition in conference marketing communications
- Logo recognition on the cover of the event program
- Logo recognition in post-conference newsletter
- Free full-page ad in the event program
- Special mention in opening session and throughout event
- Signage recognizing level of sponsorship throughout event

Platinum Exhibitor: $4000 (2 Available)

- One 6' table exhibit booth
- Two full complimentary program registrations for the conference
- Logo/ad on a running PPT slide during the Conference lunch
- Logo recognition in conference marketing communications
- Logo recognition in the event program
- Logo recognition on the CalDesal website during the month of the conference
- Logo recognition in post-conference newsletter
- Logo recognition on signage at the Conference
- Special mention in opening session and throughout event
- Signage recognizing level of sponsorship throughout event
- Half-page ad in event program

Gold Exhibitor: $3000 (5 Gold)

- One 6' table exhibit booth
- One full complimentary program registration for the conference
- Logo/ad on a running PPT slide during the Conference lunch
- Logo recognition on signage at the Conference
- Name recognition in conference marketing communications
- Name recognition in the event program
- Name recognition on the CalDesal website during the month of the conference
- Name recognition in post-conference newsletter
- Signage recognizing level of sponsorship throughout event
- Half-page ad in event program

Tote Bag Sponsor: $2,500 (1 Available)

- Logo branding and recognition as Tote Bag Sponsor
- One full complimentary program registration for the conference
- Logo/ad on a running PPT slide during the Conference lunch
- Logo recognition on signage at the Conference
- Name recognition in the event program
- Name recognition in post-conference newsletter
- Signage recognizing level of sponsorship throughout event

Lanyard Sponsor: $2,500 (1 Available)

- Logo branding and recognition as Lanyard Sponsor
- One full complimentary program registration for the conference
- Logo/ad on a running PPT slide during the Conference lunch
- Logo recognition on signage at the Conference
- Name recognition in the event program
- Name recognition in post-conference newsletter
- Signage recognizing level of sponsorship throughout event

CalDesal 2025 Annual Conference - Sponsorship Opportunities

Reception Sponsor: $1250 (2 Available)

- Logo recognition on reception drink tickets
- Logo/ad on a running PPT slide during the Conference lunch
- Name recognition in the event program
- Name recognition on signage at the Conference
- Name recognition in post-conference newsletter
- Signage recognizing level of sponsorship throughout event

Keynote Lunch Sponsor: $1,000 (1 Available)

- Logo/ad recognition on the Keynote welcome slide
- Logo/ad on a running PPT slide during the Conference lunch
- Name recognition in the event program
- Name recognition in post-conference newsletter
- Name recognition on signage at the Conference

General Sponsor: $750

- Logo/ad on a running PPT slide during the keynote conference lunch
- Name recognition in the event program
- Name recognition in post-conference newsletter
- Name recognition on signage at the Conference

Conference Bag Swag Item Sponsor: $500

- Add an item with your organization logo into the bags that will be provided to all attendees at registration (or sponsor the bags themselves – logo bags distributed to all attendees, with various swag items included)
- Sponsor is responsible for providing the swag to CalDesal by **January 10, 2025**, in order to be included.
- No refunds will be given if your swag arrives too late to be added to the bags.

DIY Sponsorships:

- DIY or "do it yourself" sponsorships are for all the creative desal professionals out there. Showcase your organization in a way that we haven't thought of! Email: glennf@caldesal.org with your proposed sponsorship and budget and we will work with you to customize a package for your organization!

All Sponsors Will Receive:

- List of attendees
- Acknowledgement in handout materials – 100-word organization/company/agency description

Sponsor Registration Form

Click Here

CalDesal.org

CalDesal 2025 Annual Conference
Session/Panel Concepts

Salinity/Concentrate Management Session

- (So Cal) Jeff Mosher – SAWPA – Inland Empire Brine Line
- Adam Zacheis – Brown/Caldwell – FRRO for High Recovery – City of Santa Monica (MSSC – Feb 2024)
- Mike Mickley – Brine Mining – Mickley & Assoc/BlueTech Research)
- (So Cal) Linnea – Eastern Municipal Water District
- (So Cal) Rancho California (?)
- (Central Cal) Calleguas MWD – new brine line – how to grow use
- (Central Cal) Other inland brackish desal
    - Camarillo desalter
    - Moorpark desalter
- (Northern Cal) Valley Water – brine discharge issues

Arizona/Nevada Desal Activities

- Chuck Podolak – Water Infrastructure Finance Authority of Arizona
- Rick Spilsbury – Ely Shoshone Tribe – Member of Great Basin Water Network
- Wally Wilson – Metro Water District – Arizona
- Jim Watrus – Southern Nevada Water Authority
- Phillip Richards – Arizona Public Service
- Scott Muller – Arizona Public Service
- Rezaur Rahman – Scottsdale Water – Arizona
- Joe Olson – Metro Domestic Water – Arizona
- Orestes Morfin – Central Arizona Project
- Chad Lapora – Tuscon Water
- Peter Fox – Professor – Environmental Engineering School of Sustainable Engineering – Arizona State University
- Charles Ester – Salt River Project – Arizona
- Reed Blochberger – Salt River Project – Arizona
- Andrew Burns – Southern Nevada Water Authority

Energy Session (Steve Wait)

- Global Water Farms – CEO Jon Becker (partnership with Primeval Energy) – Geothermal desal in Salton Sea area
- Capture6 – Project Monarch with Palmdale Water District – CEO Ethan Cohen-Cole
- CarbonCapture, Inc.
- Energy Recovery, Inc. – Rodney Clemente – Sr. Vice President of Water
- Equatic – COO Edward Sanders – Seawater electrolysis for production of green H2
- Hydrogen issues/linkage

PFAS Session (Glenn)

- Mitigating PFAS impacts to Eastern Municipal Water District's brackish desal operations
- Restoring a PFAS-impacted groundwater supply for potable use (Orange County WD)
- Chris Berch – GM, Jurupa Community Services District
- Carlos Quintero – GM, Sweetwater Authority

Labor Session (Glenn)

- Pete Wohlgezogen – UA Local 250 Pipefitters
- Ernesto Medrano – Executive Secretary – LA/OC Building Trades
- Joseph Cruz – CA Council of Laborers
- Michael Quigly – CA Alliance for Jobs

Miller Marine Science Report Session

- Eric Miller
- SDCWA/Channelside Resources

Desal Critics Session (Glenn)

- Environmental Justice group
- Tribal interests (?)
- Enviro groups – CA Coastkeeper
- Pacific Institute

Public-Private Partnerships Session – Financing

- Consolidated Water
- Seven Seas Water Group
- SDCWA/Channelside Resources

Cost of Water Session (Steve Wait)

- Cost comparison models
    - Desalination
        - Seawater
        - Brackish
    - Water recycling (purple pipe)
    - IPR
    - DPR
    - Stormwater
    - Other
- Possibly Family Feud-style (or similar)

Public Perceptions of Desalination Session

Others for Consideration

- Martin Ludlow – Groundswell for Water and Housing Justice
- Hayley Smith – LA Times environment reporter
- USBR Funding Opportunities for Water Reuse and desalination Construction and Water Treatment Research
    - Maribeth Menendez – USBR Water Resources and Planning Office
    - Andrew Tiffenbach – USBR Research and Development Office
- Jeopardy/Family Feud game

Keynote Speaker Options

- Congressmember Mike Levin – San Diego
- Peter Fiske – NAWI

CARLSBAD DESALINATION PLANT

State of the Ocean Report

A new scientific study found that California's strict ocean protection regulations are working and that the Claude "Bud" Lewis Carlsbad Desalination Plant offers an environmentally friendly supply in an era of increasing water scarcity. The findings highlighted how ocean waters near the plant remain healthy and minimally impacted.

The analysis focused on the Carlsbad Desalination Plant, which has produced up to 54 million gallons of drought-proof water per day for the greater San Diego region for nearly a decade.

"The most robust monitoring program of the area ever completed demonstrated the Carlsbad Desalination Plant is operating in compliance with all applicable regulations and permits in harmony with the coastal marine environment," said the study, prepared by Miller Marine Science & Consulting, Inc. of Aliso Viejo.

Plant Background

The Carlsbad Desalination Plant minimizes the San Diego region's vulnerability to statewide drought conditions. It is part of a $1 billion project that includes the nation's largest, most technologically advanced and energy-efficient seawater desalination plant, a 10-mile large-diameter pipeline, and improvements to Water Authority facilities for distributing desalinated seawater throughout San Diego County.

The plant draws seawater from Agua Hedionda Lagoon, which is adjacent to the Pacific Ocean and also home to the Hubbs SeaWorld Research Institute's premier aquaculture facility for restoring California's white seabass population. The desal plant provides several environmental benefits by using cutting-edge technology to recapture energy from the desalination process, offsetting carbon emissions and developing extensive wetlands to enhance fish populations along the San Diego County coastline. The entire project was developed through a rigorous environmental permitting process, which required scientific assessments.

A new intake structure is under construction to meet strict state laws for environmental protection. Federal grant funds are being used to modify the initial intake and discharge operations, including construction of a new screening structure to further protect sea life.

Construction on the new intake structure began March 2023

CARLSBAD DESALINATION PLANT

State of the Ocean Report

Ocean Health Assessment

Ocean monitoring was ordered by the San Diego Regional Water Quality Control Board to determine what impact the desal plant was having on sediments and water quality, including any impacts on surfing, diving and shellfish.

The Miller Marine study started July 2019 and ran through fall 2023 (except during the early days of the COVID-19 pandemic). All monitoring was conducted while the desal plant was drawing water from the lagoon, discharging brine back to the ocean, and delivering potable water to the San Diego County Water Authority. Samples showed that the waters off the coast of Carlsbad are healthy in the monitoring areas, and water quality has remained consistent with the regional patterns.

Occasionally, large harmful algal blooms negatively impacted the Carlsbad coastline, but the study found that desalination plant operation did not contribute to the blooms. In addition, the seabed environment offshore of Carlsbad was deemed healthy, with low levels of common pollutants (which were expected because they can derive from various sources in the ocean) and none creating a toxic environment. Communities of sediment-dwelling sea creatures in the area were as expected, indicating no effect of the desal discharge.

The State of the Ocean report concluded that:

1. The Carlsbad coastal marine environment continues to support its full suite of beneficial use.
2. The Carlsbad Desalination Plant's discharge is not disturbing the receiving water quality or environment outside the brine mixing zone.
3. The Carlsbad Desalination Plant is not discharging toxic substances to the detriment of the environment. The plant's operations result in an environmentally safe discharge to the marine environment in compliance with all regulations.

Read the Full Report

OPA 2.0 Working Group – Issues Matrix

ISSUE	CONTEXT (What Issues are Implied Within This Item?)	KEY TALKING POINTS
Allowance of flow augmentation without bias	Flow augmentation can result in less impact than diffusers and should be included in discharge analysis.	All brine dilution methods should be included in analysis to determine which has least impact project by project.
Elimination of brine diffusers as best available technology		
Improving science around determination of shearing mortality and related mitigation requirements		
Eliminate shearing mitigation for projects that comply with the SWB streamlining recommendations by utilizing subsurface intakes and commingling discharge with an existing wastewater outfall.	Differentiating brine from freshwater in an existing wastewater outfall ignores the fact that the brine makes the freshwater more similar to the receiving waters and thereby reduces shearing effects because the more similar water masses mix more readily. Just as a subsurface intake is assumed to minimize entrainment and impingement to the point no mitigation for marine life impacts is needed, the same logic should be applied to commingled discharges.	Using the BTA for intake and discharge should result in no mitigation needed as the impacts to all forms of marine life have been minimized to the extent possible. Freshwater causes shear just like brine because dissimilar liquids (freshwater and marine receiving waters) are being forcibly mixed. Pre-mixing brine and freshwater wastewater reduces the liquid dissimilarity and results or less energetic mixing needing less shear. An overall environmental benefit. The state does not regulate shearing in wastewater discharge and it's scientifically inconsistent to apply this standard only to desalination plants.
De facto prohibition on open intakes	Subsurface intakes are not feasible everywhere and cannot provide sufficient source water for the large plants the arid southwest will need to offset the aridification-induced water losses.	Subsurface is not possible everywhere. We cannot replace the water volumes lost to aridification without open intakes. Cost must be considered. Lots of small plants with subsurface intakes could result in higher water costs. Brings in the EJ/SJ issue opponenets have been focused on.

Commented [1]: CalDesal should be careful with shearing. Roberts has produced reports with conflicting conclusions. The peer-reviewed literature he cites in his reports confirms that larvae larger than 1 mm are killed more than those less than 1 mm. The biggest issue with the Roberts shearing work is that it all cites invertebrate larval studies while we are mostly concerned with fish larvae from the ETM/APF analytical standpoint. This is mainly due to Robert's reliance on Kolmogorov scales. There is literature on the effect of shearing on larval fish but they do not express shearing energy as Kolmogorov but at dynes. They find high turbulence is very lethal and not tied to time or frequency of exposure. A turbulent jet with enough force tears apart fish larvae that lack shells or exoskeletons like invertebrate larvae. I personally do not know how/if dynes and Kolmogorov scales can be converted into similar units. In this list, we also have conflicting requests about diffusers, shearing, etc. I added a different route that hopefully sidesteps the shearing issue and benefits those projects that are using what the State says is the "streamlined" route.

Commented [4]: Just added "pre" to indicate we are talking about com-mingling

Commented [3]: I think this could complicate the already complicated shearing issue. Shearing results from a high velocity jet being injected into stagnant water. The salinity perspective is only relevant in that co-mingled effluent would no longer need high velocity to mix efficiently.

Commented [2]: I think this is a slick solution. It preserves flexibility in compliance which is usually is a benefit to industry.

Commented [5]: OK - you captured it here. Great

Specify a sequential order for assessing site, design, technology, and mitigation under the Water Code Section 13142.5(b) determination process *(Siting Criteria Report)*	Each Water Code element needs to be evaluated with equal weight for each project. No project should be summarily denied because an element reviewed early in the process is determined to be less than ideal.	The current process is untenable for most developers municipalities when there are so many potential ways to stop a project. Making stage-gates, reduces risk for project proponents and increases certainty.
Offshore/deep-sea desalination evaluation and permitting	Should be given a pathway to compliance like all rather than disregarded because its in a less studied habitat.	Flexibility in the final regulations is required to leave space for new technologies
Articulate criteria for studies necessary to demonstrate subsurface intake feasibility *(Siting Criteria Report)*		

Align the desalination provisions with the Coastal Act requirements regarding energy consumption and Resolution No. 2017-0012 *(Siting Criteria Report)*		
Timing – requirement for mitigation to be in place prior to operations of a facility is problematic	Mitigation need is quantified too late in the permitting process to allow for a mitigation project to be feasibly designed, permitted, constructed, and demonstrated as successful. Either allow after the fact mitigation or increase the range of mitigation banks allowed in CA that can be used by desalination developers, or both.	This proposed provision is not legal because it renders projects infeasible. Evidence shows that coastal wetlands take 20 years to site, design, permit and build, not taking into account demonstrating performance. Such a provision s in conflict with the state's definition of feasible as a project cannot be successfully development in a reasonable period of time. No project - public or private - would be able to secure construction financing with such a permit condition, leaving a project in limbo for an unspecified period of time.
Mechanisms – Fee-based mitigation; artificial reef efficacy		Establishing a fee-based program, as contemplated by the 2016 OPA, is the best way to streamline the development of desalination projects.
Elimination of mitigation for shearing mortality		
Establish definitions for terms such as "restoration," "creation," and "expansion" to improve clarity around mitigation planning expectations *(Siting Criteria Report)*		
Clarify that "preservation" is not an acceptable means of mitigation under		

Commented [6]: I would say "allowed". It was in there.

Commented [7]: I just dont see the WB saying yes. This is a heavy hammer they can use against big projects. They wielded it, in part, to kill HB. More than 50% of the HB mitigation was due to shearing.

Commented [8]: Without shearing, flow augmentation will always result in more impact based on the current assessment methods. Earlier we request FA be allowed as a method. Having FA as an option for future big plants could be a huge reduction in impact and cost, especially if the intake can be located in a low-productivity habitat.

the Ocean Plan *(Siting Criteria Report)*		
Who makes determinations or evaluations?		
Factors comprising determination of "need"		
Provide guidance on the information needed to prepare a Water Supply and Demand Assessment *(Siting Criteria Report)*		
Provide guidance on the application of existing policies and regulatory requirements relating to EJ, including siting projects with proactive community engagement and locally scoped EJ in mind at the onset of the permitting process *(Siting Criteria Report)*		
Align the desalination provisions with the Human Right to Water and all applicable racial equity resolutions *(Siting Criteria Report)*		
Cost of water as a consideration (rate-making)		

Commented [9]: Instead of trying to fix a bad provision let's discuss spiking the entire "need" discussion in the OPA. It's an overreach.

Commented [10]: See my previous comment on water cost associated with lots of small subsurface intake plants.

CalDesal Spring Mixer – Thank You For Attending!

A great time was had during the CalDesal Spring Mixer in Sacramento last week during the ACWA Spring Conference. Hundreds of conference attendees stopped by to socialize and network with desalination industry partners and colleagues.

And, a special thanks to our Spring Mixer sponsors, without whom we would not be able to support the development of such a great event:

- **Mesa Water District**
- **UA Local Union 250 Pipefitters**
- **Pipefitters District Council 16**
- **Kimley-Horn**
- **Metropolitan Water District of Southern California**

- GHD
- Eastern Municipal Water District

CalDesal Welcomes New Member!

We are extremely pleased to introduce the CalDesal community to a new member of our growing family. **Hazen and Sawyer** has joined CalDesal as a Regular Member of the organization and the newest member of the CalDesal Board of Directors. Hazen and Sawyer is a consulting engineering firm that specializes in water supply and water quality projects.

Welcome to Hazen and Sawyer! Please introduce yourselves to our new member when you have an opportunity.

Hazen

DWR Releases Draft Resource Management Strategy for Desalination

On April 30, the Department of Water Resources released a public review draft of the 11 Resource Management Strategies that will accompany and supplement the California Water Plan Update. There is a 30-day public comment period on the Resource Management Strategies, concluding on May 31, 2024. Public comments will be used to inform the final versions of the strategies. Comments can be submitted by using this **online comment form** or via email at: **cwpcom@water.ca.gov**.

The public review draft of the Resource Management Strategy for Desalination can be accessed through this link: **Dealination (Brackish and Seawater) Resource Management Strategy (ca.gov)**

Lacy Carothers is Newest Member of CalDesal Executive Committee

At its April 2024 Executive Committee meeting, the CalDesal Executive Committee unanimously voted to approve the appointment of Lacy Carothers as the newest member of the Executive Committee.

Lacy is currently leading engineering efforts for California American Water's Monterey Peninsula Water Supply Project, a comprehensive initiative designed to ensure a long-term, sustainable water supply for the Monterey Peninsula region. The project includes a state-of-the-art, 6.4 million gallon per day (MGD) desalination plant that is currently undergoing permitting, with construction anticipated to begin in October 2025.

Please congratulate Lacy on her appointment when you have an opportunity!

Email: **info@caldesal.org** |
Website: **www.caldesal.org**

2024 Annual Conference – Thank You For Attending and Participating!

The **2024 CalDesal Annual Conference** in Sacramento during February 8-9 was a tremendous success! Those attending and participating in the conference enjoyed a great opportunity to hear about the role that desalination is playing – and will continue to play – in California's water resilient future. We heard from Newsom Administration officials and key regulatory agency leaders about the work that a number of state agencies are currently engaged on within the desalination space. Attendees heard compelling media perspectives on desalination in California, received an overview of the economic impacts of water scarcity and the argument for integrating desalination into a water abundance approach, heard from key federal agency partners, and received an update on activities related to offshore desalination development.

CalDesal is grateful for the great perspectives, counsel, and wisdom that was brought to the conference planning effort through our Events Planning Committee – Tim Hogan, Michelle Peters, Steve Wait, Stacy Taylor, Paul Hermann, Keith Myers, Nathan Faber, and Kevin Thomas. **Thank you!**

Many individuals participated actively in the Annual Conference as panelists and moderators, and we are greatly appreciative of your willingness to bring timely and meaningful content to conference attendees. Thank you!

And, a special thanks to our Annual Conference sponsors, without whom we would not be able to support the development of such a great conference event:

- **Mesa Water District** – Event Co-Sponsor
- **San Diego County Water Authority** – Gold Sponsor
- **GHD** – Gold Sponsor
- **Metropolitan Water District of Southern California** – Gold Sponsor
- **CDM Smith** – Gold Sponsor
- **Black & Veatch** – Keynote Lunch Sponsor
- **Kiewit Infrastructure** – Reception Sponsor
- **South Coast Water District** – Reception Sponsor
- **California American Water** – Reception Sponsor
- **Alameda County Water District** – General Sponsor
- **Channelside Water Resources** – General Sponsor
- **GF Advocacy** – General Sponsor

CalDesal Welcomes New Member!

We are extremely pleased to introduce the CalDesal community to a new member of our growing family. **Brown and Caldwell** has joined CalDesal as an Associate Member of the organization. Brown and Caldwell is a global leader in water engineering and restoration services, offering solutions for water utilities, municipalities, and private clients.

Welcome to Brown and Caldwell! Please introduce yourselves to our new member when you have an opportunity.

State Agencies Release New Brackish Water Desalination Reports

On February 21, the California Department of Water Resources released its report on existing and projected brackish water desalination projects that are anticipated to come on-line by 2040, as part of its work relative to the Governor's Water Supply Strategy report from August 2022: **State Report Identifies Future Desalination Plants to Meet Statewide Water Reliability Goals (ca.gov)**

In response to the Governor's *Water Supply Strategy*, on February 27, the State Water Resources Control Board released an article exploring the volume of water available for brackish groundwater desalination, including the development of a map that identifies groundwater basins with potential for brackish desalination: Water Supply Strategy Deliverable: **Groundwater Basins with Potential for Brackish Groundwater Desalination (ca.gov)**

CalDesal Spring Mixer – Wednesday, May 8 – 6PM!

The **CalDesal Spring Mixer** is back for the **ACWA Spring Conference** in Sacramento! The CalDesal Spring Mixer will be held on the evening of Wednesday, May 8, beginning at 6:00 PM at the Hyatt Regency Sacramento.

Sponsorship opportunities for the CalDesal Spring Mixer are also available now! This is a great opportunity to showcase your agency, business, or organization to the entire California desalination industry! Mixer sponsorships come with fantastic options for marketing your exposure within the industry!

Consider sponsoring the CalDesal Spring Mixer today!

Become a Sponsor

Email: info@caldesal.org |
Website: www.caldesal.org

2024 CalDesal Annual Conference: Time is Running Out to Register!

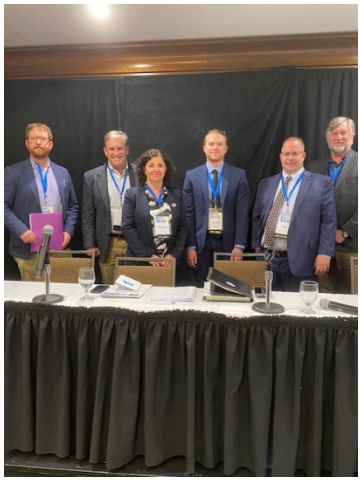
The CalDesal Annual Conference is the premier event on desalination and salinity management in California – attracting water professionals from throughout the state, the country, and the world for knowledge-sharing, networking, and collaboration! The Annual Conference is only ONE MONTH away, and will be held on February 8-9, 2024 at the Embassy Suites in Sacramento, and will include engaging sessions on the latest issues of interest to the desalination and salinity management communities.

Register today for *Desal for California's Water Resiliency, Security, and Sustainability*. CalDesal is pleased that the program will feature engaging sessions that will highlight the role desalination will play in California's water resilient future in light of the state's changing climate and aridification. You'll hear about lessons learned through recent regulatory permitting processes, statewide media perspectives on California's desalination future, exciting innovations in desalination technology, and more!

The CalDesal conference room block at the Embassy Suites is filling quickly – only a small group of discounted rooms for the event remain available to those who book their conference registration and accommodations now!

Register Today

Book a Room by 1/17



CalDesal Annual Conference Sponsorship Opportunities

Time is running out to secure your sponsorship of the 2024 CalDesal Annual Conference! This will be a fantastic opportunity to showcase your agency, company, organization, product, project, or innovation! Sponsorship opportunities are filling up very quickly – this will be THE event focused on desalination and salinity management in California during 2024. Don't miss out – act now!!

We will be closing our sponsorship opportunities on January 19, so we encourage you to act now to secure your sponsorship!

Become a Sponsor

Great Times at the CalDesal Fall Mixer!

A great time was had by all at the always-popular CalDesal Fall Mixer during the ACWA Fall Conference in Indian Wells last month. Hundreds of conference attendees stopped by the CalDesal Mixer to enjoy a beverage and networking with desalination community leaders from throughout California.

Thank you to our tremendous sponsors for supporting the Fall Mixer event and for continuing to help make these events highly successful:

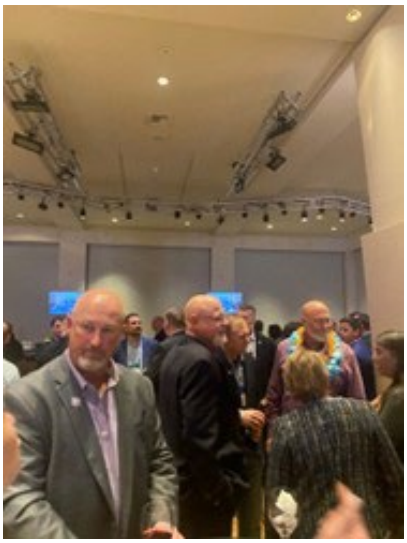
Gold Sponsors

SOUTHERN CALIFORNIA PIPE TRADES

Silver Sponsors

Bronze Sponsors

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA



Email: info@caldesal.org |
Website: www.caldesal.org

CalDesal | 808 R Street, Suite 209, Sacramento, CA 95811