

# MEETING HIGHLIGHTS

## SONGS Community Engagement Panel

7 March 7, 2024, from 2-5 p.m. PST via Microsoft Teams

**SAN ONOFRE**  
COMMUNITY  
ENGAGEMENT  
PANEL

- Focus topic:
  - Environmental Stewardship Update
    - Annual Sea-level Rise Impact Assessment Report
    - Ocean Protection Council Draft 2024 California Sea Level Rise (SLR) Guidance<sup>1</sup>
    - Update on batch releases of water
    - SONGS Radiological Environmental Monitoring Program
- SONGS dismantlement is more than halfway complete

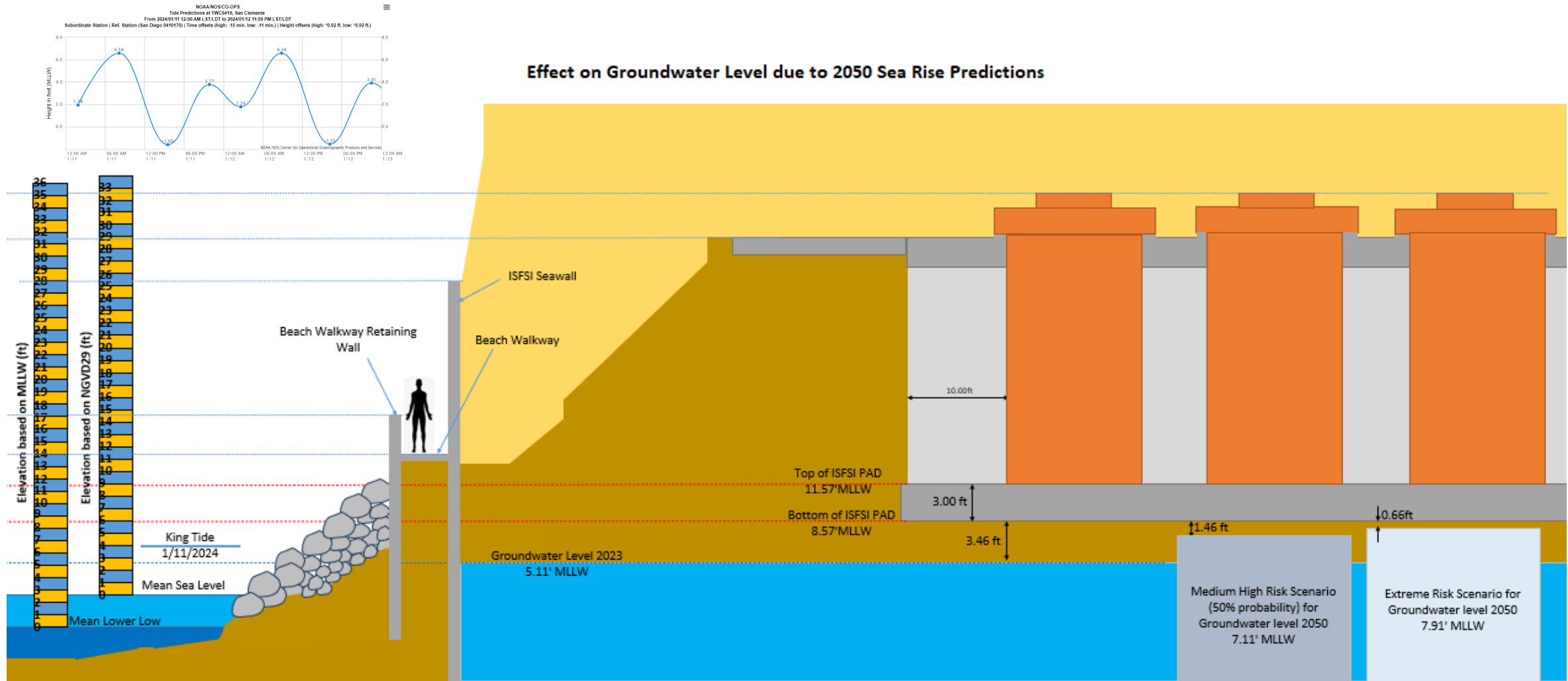


<sup>1</sup> Available at <https://opc.ca.gov/wp-content/uploads/2024/01/SLR-Guidance-DRAFT-Jan-2024-508.pdf>

CEP meeting webpage: [www.songscommunity.com](http://www.songscommunity.com)

# Onsite Wells Inform Understanding of Water Table

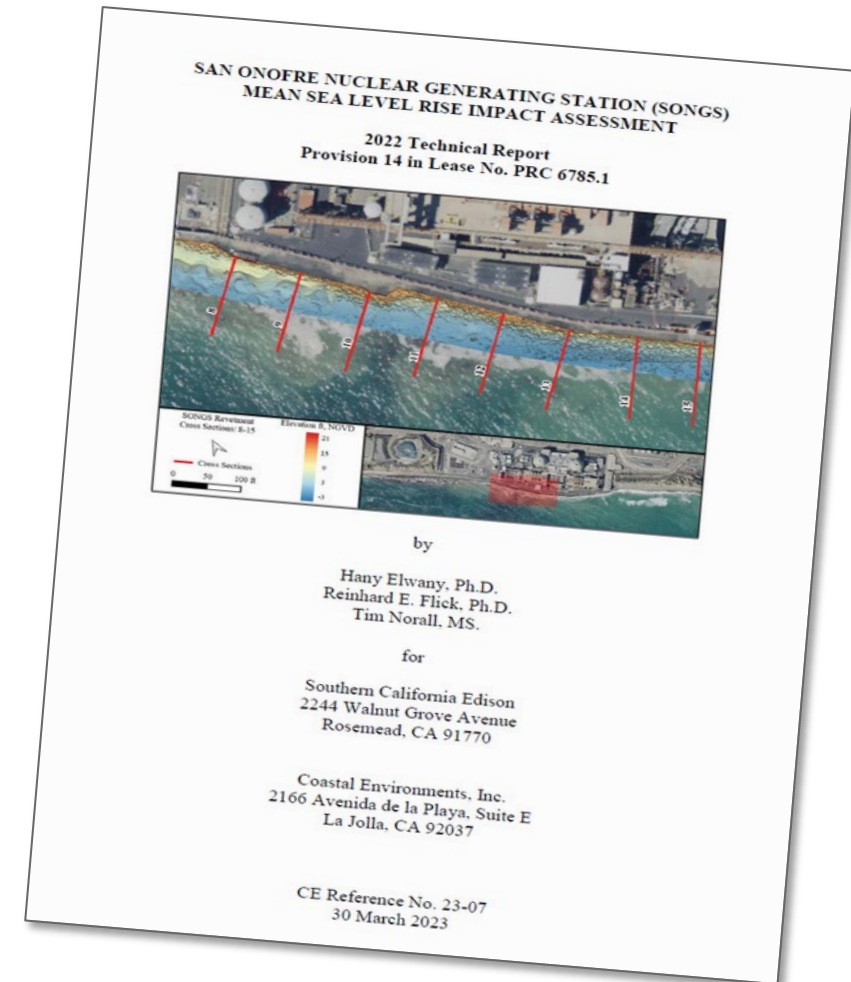
Effect on Groundwater Level due to 2050 Sea Rise Predictions



Link to NOAA Tide Predictions for San Clemente, CA: <https://tidesandcurrents.noaa.gov/noaatidepredictions.html?id=TWC0419&legacy=1>  
To know more about tidal datums go here: [NOAA Tides & Currents](#)

# Site and Spent Fuel Storage Good Thru at Least 2050

- SCE assesses and reports the potential impact of SLR using California Ocean Protection Council (OPC) SLR guidance
  - Ocean Protection Council (OPC) Medium-high and H++ extreme SLR projections combined with annual, 20-year and 100-year-storm events, as well as King Tides
  - Quarterly ground water elevation data collected from onsite monitoring wells
- Annual Sea Level Rise (SLR) Impact Report
  - 2022 assessments and reporting conclude that
    - “Rip-rap” is in good condition and able to withstand extreme SLR through at least 2050
    - The beaches fronting SONGS have narrowed to pre-construction widths
    - The Holtec ISFSI support foundation remains above the water table through 2050



ACCESS REPORT HERE

[2022 Sea Level Rise Impact Assessment Report](#)

# Liquid Batch Releases Pose No Harm

## 2023 Actuals

Month	Volume (Gallons)
February	25,546
February	85,542
March	120,734
May	45,050
June	119,515
June	73,670
July	119,250
October	119,250
November	97,815
November	90,100
December	105,364
<b>Total</b>	<b>1,001,836</b>
<b>Total Dose:</b>	<b>0.024 mrem</b>

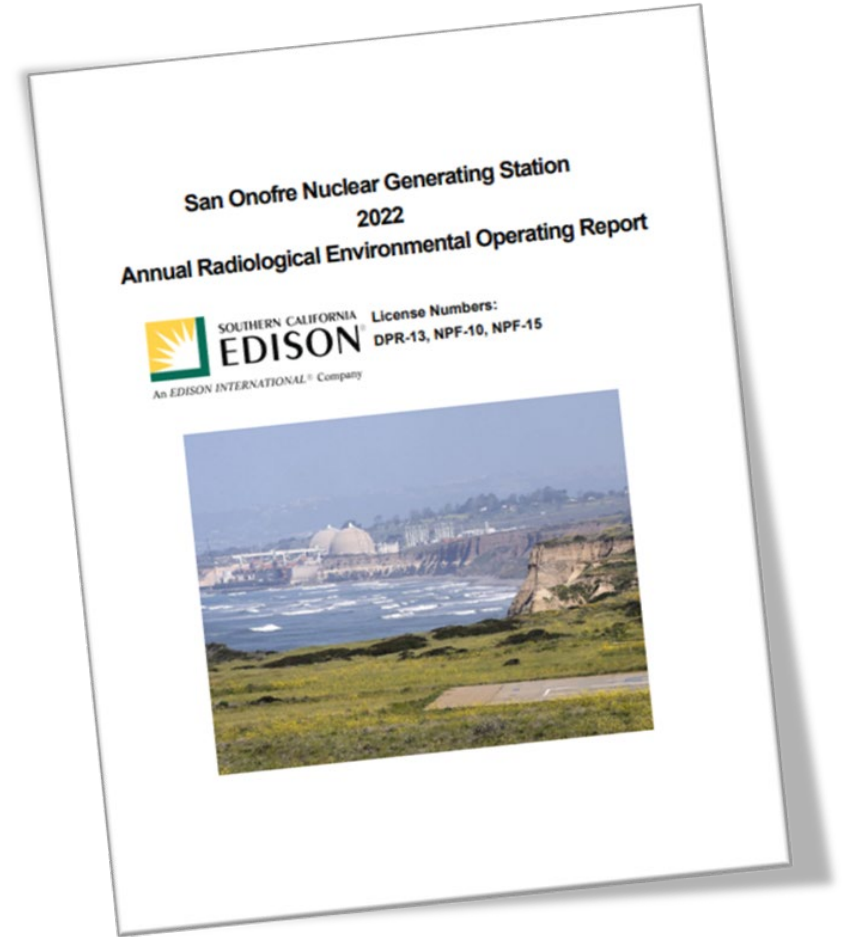
## 2024-2025 Planned Releases

- In 2024, an estimated 1,450,000 gallons of cleaned up water from the spent fuel pools, reactor cavities, hydrolyzing, and rainwater is planned for release
  - Batch volumes vary from 75,000 to 110,000 gallons
  - Planned tempo – one to two per month from mid-February through October
- For 2025, anticipated total volume of releases is presently estimated to be less than 100,000 gallons

- Releases pose no harm to people, or the environment as supported by decades of independent monitoring
- Water is cleaned up well below SONGS NRC license requirements (<1.5 mrem/qtr. and <6 mrem/yr.)
- SONGS provides 48-hour advance notice of batch releases to the public via [songscommunity.com](https://songscommunity.com)

# Research Shows Radiation not Accumulating in Environment

- SONGS Radiological Environmental Monitoring Program (REMP)
  - Results indicate that SONGS has not had a detectable impact on the environment
  - SONGS REMP results available in Annual Radiological Environmental Operating Report (AREOR)
- Sampling Performed by third party, MBC Aquatic Sciences
  - Monthly
    - Ocean Water
  - Semiannual
    - Marine Animals
    - Ocean Bottom Sediment
    - Shoreline Sediment
- Analyzed by independent laboratories
  - Some Samples Split with CDPH
    - Ocean Water
    - Marine Animals
    - Kelp



<https://www.songscommunity.com/stewardship/environmental-monitoring-around-san-onofre>

# Tritium Releases not Detectable in Ocean

- Very low dose/risk nuclide
  - EPA Drinking Water Standard
    - 20,000 pCi/liter tritium in drinking water
      - Continuous use would result in 4 mrem/year
- Monitoring at SONGS
  - Not detectable in ocean water
  - Also monitored in onsite ground water
  - Minimum Detectible Activity <500 pCi/liter
  - For 2023, SONGS released 58 Ci of tritium
    - Equivalent to 36  $\mu$ l (about 10/1,000,000 gal).
    - A drop of water is about 50  $\mu$ l, so **2023 releases contained less than one drop of tritiated water** [NOTE:  $\mu$ l=microliters]



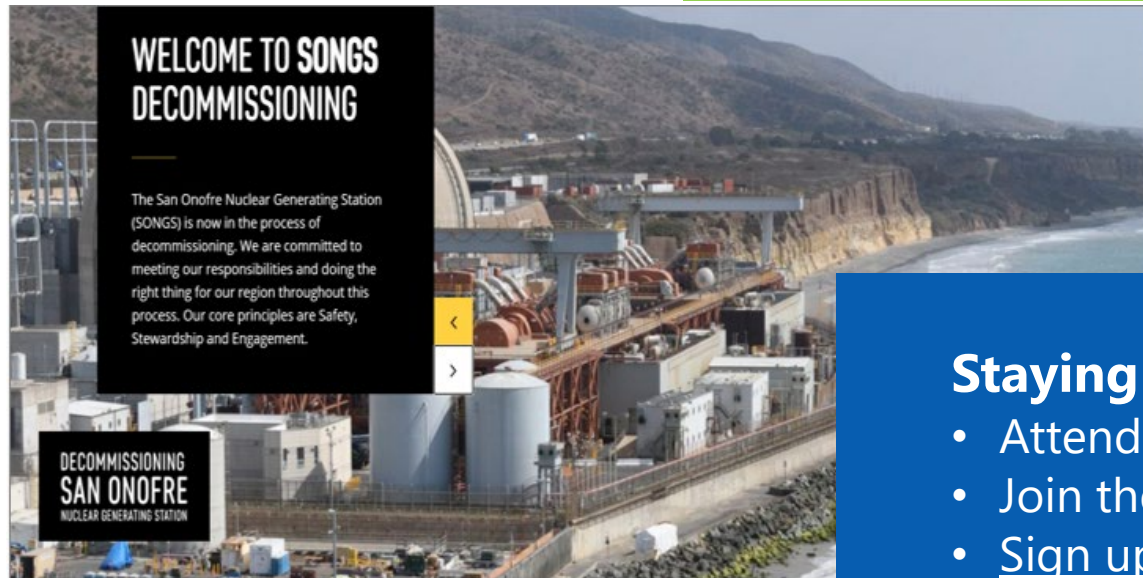
# Upcoming Reef and Wetlands Workshops

- Projects required by CA Coastal Commission to compensate for impacts of SONGS operations on coastal marine resources
  - More information at <https://marinemitigation.msi.ucsb.edu/>
- Wheeler North Kelp Reef
  - Monday, April 8, 2024, 1:30 – 4:30 pm
  - Dana Point Women's Club Community House, 24642 San Juan Ave.
- San Dieguito Wetlands
  - Thursday, May 9, 2024, 1:30 – 4:30 pm
  - Del Mar City Hall, 1050 Camino Del Mar



# Online Resources

Learn about decommissioning  
[www.songscommunity.com](http://www.songscommunity.com)



## Staying informed

- Attend Community Engagement Panel [meetings](#)
- Join the [Spent Fuel Solutions](#) coalition
- [Sign up](#) for a walking tour
- Stay up to date with [blog and news updates](#)
- SONGS monthly community update email
- Facebook, Twitter, YouTube, Instagram