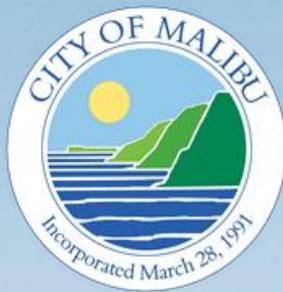


# CITY OF MALIBU

## ENVIRONMENTAL PROGRAMS UPDATE



April 22, 2021

Environmental Sustainability Department

# FOCUS AREAS



Energy



Water Conservation



Pollution Prevention



Waste Reduction



Coastal



Events & Outreach

## Focus Areas and FY 20/21 Work Plan Items

Focus Areas	Work Plan	Work Plan Title
Energy	5.n. 5.h.	Clean Power Alliance Water and Energy Conservation
Water Conservation	5.f.	Water and Energy Conservation
Pollution Prevention	5.a. 5.d. 5.e. 8.c. 5.o.	Civic Center Water Treatment Facility Clean Water Monitoring Program Clean Water Regulations Compliance Stormwater Treatment Facilities Dumpster Lid Ordinance Implementation and Enforcement
Waste Reduction	5.g.	Solid Waste Management Program Enhancements
Coastal	5.i.	Coastal Vulnerability Assessment
Outreach & Events	5.c.	Sustainability Outreach

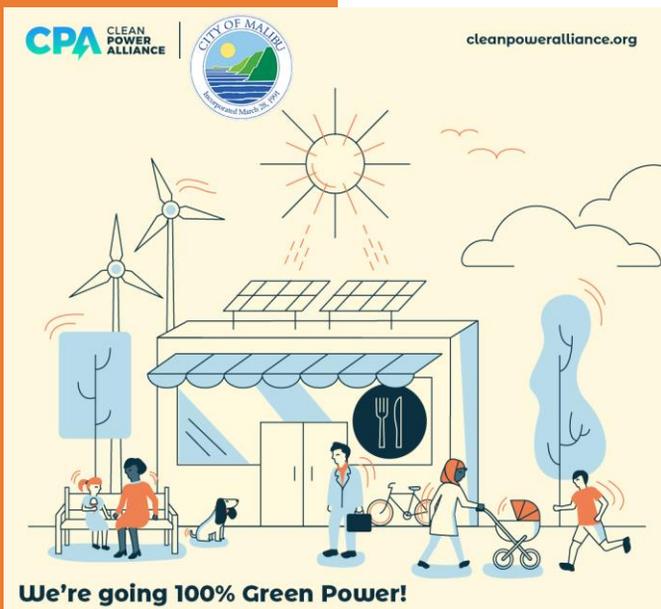
# ENERGY

Work Plan Items:

5.n. Clean Power Alliance

5.h. Water and Energy Conservation

## CLEAN POWER ALLIANCE



City Council direction on 10/28/19:

- Approved selection of the 100% Green Power option as the default for Malibu CPA customers
- Directed staff to work with CPA staff on an implementation plan.

### Customer Status:

Malibu's Overall Participation: **97.2%**

Malibu CPA customers receiving 100%

Green Power: **96.3%**

Council Action 10/28/19

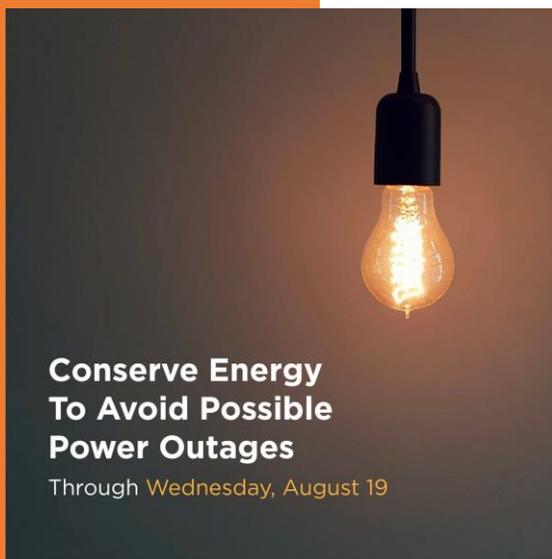
# DARK SKY



- 1/31/20: Outreach letters sent to 107 commercial property owners
- Gas station plan checks under review.

Council Action 05/14/18

# ENERGY PARTNERSHIPS



Southern California  
REGIONAL ENERGY NETWORK 

**CPA** CLEAN  
POWER  
ALLIANCE

 WESTSIDE  
Energy Partnership

Council Action 02/12/18

# WATER

Work Plan Items:

5.h. Water and Energy Conservation

## MALIBU SMART



IRWMP Grant partnership between the City, West Basin, and LA County Waterworks District 29 to save 28 million gallons of water per year.

Events offered:

- Rainwater & Graywater Workshop: 5/29/19
- Turf Replacement Class: 9/21/19
- Rain Barrel Distribution: 11/02/19
- Firescaping Workshops: 9/10/19 and 11/05/19

[www.malibusmart.org](http://www.malibusmart.org)

Council Action 09/28/15



# MALIBU SMART INCENTIVES



## REBATES ARE AVAILABLE FOR A LIMITED TIME ONLY!

- ▶ Premium High Efficiency Toilets **\$40**
- ▶ High Efficiency Clothes Washers **\$85**
- ▶ Lawn Replacement **\$5 per sq ft**
- ▶ Smart Sprinkler Timers **\$160** *Rebate now doubled!!*
- ▶ High Efficiency Sprinkler Nozzles **\$2 per nozzle**
- ▶ Rain Barrels & Cisterns **\$35-\$350**

Council Action 09/28/15

## FIRESCAPING WORKSHOPS



9/09/19  
Over 120 attendees



11/05/19  
Over 60 attendees



# RAIN BARREL GIVEAWAYS

Fall 2019

- In partnership with Malibu Boys and Girls Club, West Basin, and City
  - Over 150 rain barrels distributed to Malibu residents



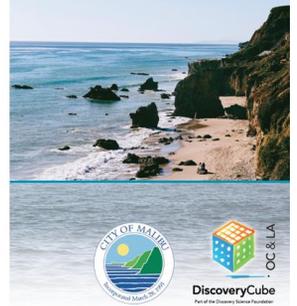
Spring 2021

- West Basin Offering Contactless [Rain Barrel Home Delivery Program](#)

Council Action 09/28/15

# WATER CONSERVATION SCHOOL EDUCATION

Wise Water Conservation



5/03/19  
Webster  
Elementary  
Assembly



3/02/21 Sycamore  
School Presentation



# POLLUTION PREVENTION

## Work Plan Items:

5.a. Civic Center Water Treatment Facility

5.d. Clean Water Monitoring Program

5.e. Clean Water Regulations Compliance

5.o. Dumpster Lid Ordinance Implementation and Enforcement

8.c. Stormwater Treatment Facilities

## LOCKING DUMPSTER BIN LIDS



City Council direction on  
3/03/20:

- Schedule adoption of Ordinance No. 462 requiring locking lids on commercial solid waste bins at all times
- Conduct quarterly inspections for the first year of implementation

## LOCKING LID IMPLEMENTATION

- 3/04/20: Emailed over 60 restaurants regarding upcoming regulation.
- 6/16/20: Notified over 200 businesses and commercial property owners via mail.
- Fall 2020: First round of inspections and notices.
- Winter 2020: Newspaper Ads and Social Media posts
- Spring 2021: Second round of inspections and notices. Referrals to Code Enforcement.

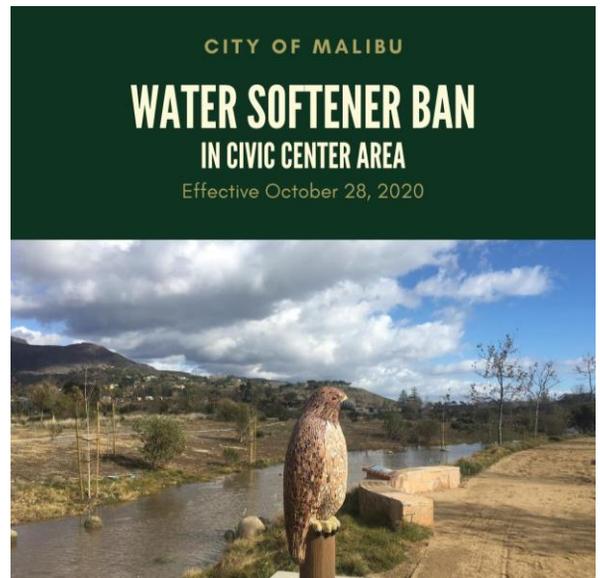
## LOCKING LID SERVICE COMPLIANCE



- Total inspections: 112
- Notices sent to businesses: 24
- Referred to Code Enforcement: 9
- 100% compliance for locking lid service at shopping centers and restaurants
- Ongoing efforts and inspections

# WATER SOFTENER BAN

City Council meeting on 10/28/19:  
Prohibited the installation or use of self-regenerating water softeners for properties connected to the Civic Center Water Treatment Facility



## IMPLEMENTATION

- 8/20/20: Notices sent to 113 businesses
- Restaurant inspections: 23
- Notices to Comply Issued: 6
- Second Notices Issued: 3

Council Action 10/28/19



## REGULATORY COMPLIANCE

ESD oversees the City's compliance with numerous other governmental agencies, each having their own reporting and permitting requirements:

- Los Angeles Regional or State Water Quality Control Boards
  - Enhanced Watershed Management Program (EWMP)
  - Coordinated Integrated Monitoring Program (CIMP)
  - Civic Center Wastewater Treatment Facility (CCWTF) Monitoring Program
- Los Angeles County Environmental Health Department/ State Water Resources Control Board
  - Recycled Water Program
- CalRecycle/ LA County Fire Department
  - Household Hazardous Waste (HHW) / Antifreeze Batteries Oil and Paint (ABOP) Program
  - Electronic Waste Recycling

# Municipal Separate Storm Sewer System (MS4) Permit

## Commercial Sector

- FY 18-19 inspections: 178
- FY 19-20 inspections (suspended due to COVID-19 pandemic): 67

## Construction Sites

- FY 19-20 inspections: 223
- FY 20-21 inspections: 262

## Illicit Discharge/Illicit Connection program

- FY 19-20 inspections: 28
- FY 20-21 inspections: 24

## Non-stormwater outfall monitoring (Biennial)

- 2019 inspections: 30

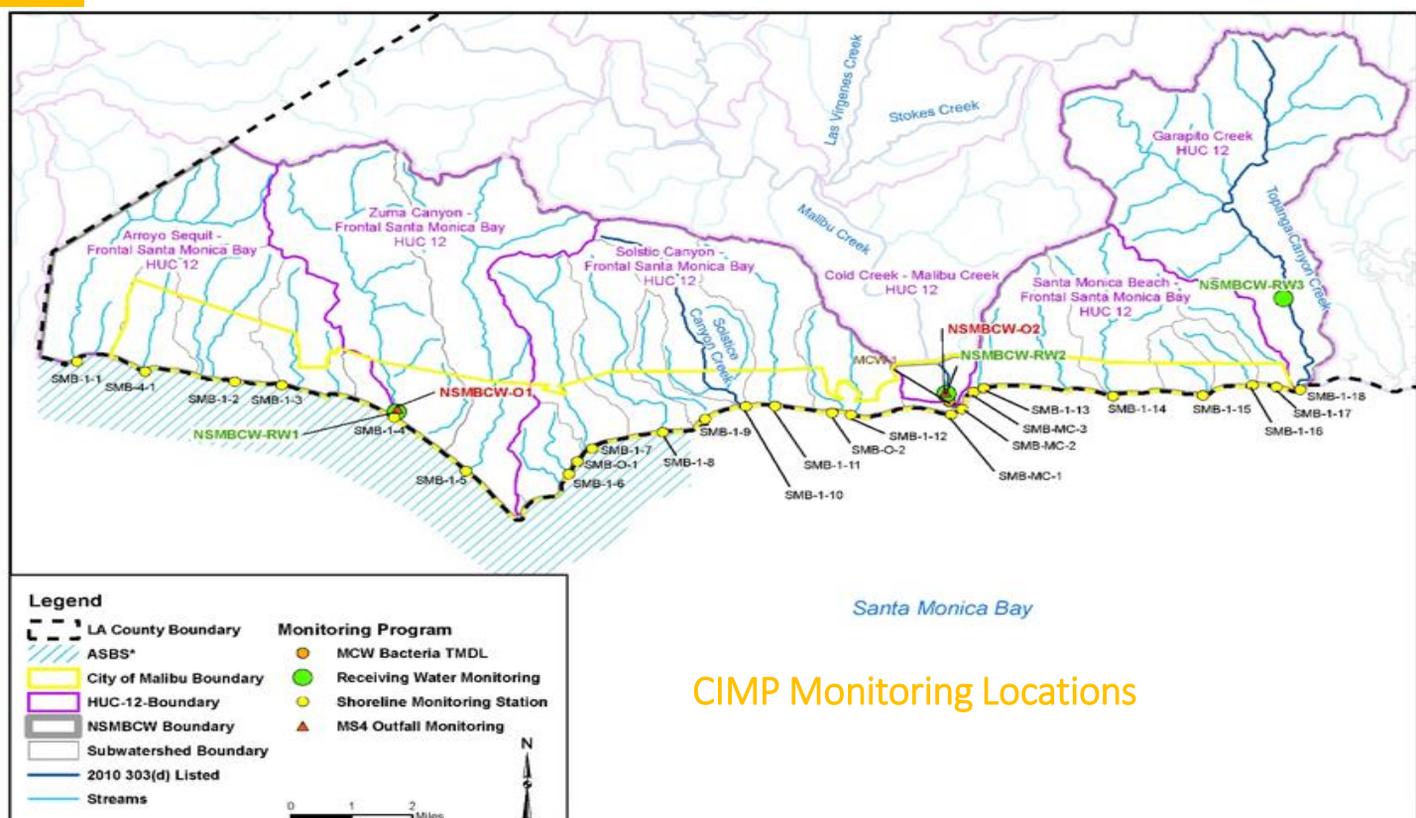


## Illicit Discharge at Las Tunas Beach

- Daily Inspections
- Coordinated 4 cleanups
- Reported 8 leaking RVs

# COORDINATED INTEGRATED MONITORING PROGRAM (CIMP)

- Monitoring at 3 receiving water sites and 2 outfalls
  - 3 wet weather events & 2 critical dry weather events annually
- Santa Monica Bay Marine Debris TMDL (Monitored through Malibu Creek Trash TMDL)
- Santa Monica Bay Bacteria TMDL (3x week)
- Malibu Creek and Lagoon Trash TMDL (2x month)
- Malibu Creek and Lagoon Bacteria (weekly)
- Malibu Creek and Lagoon Sediment and Nutrients TMDL
  - pending adoption of a Regional MS4 permit



CIMP Monitoring Locations

# ENHANCED WATERSHED MANAGEMENT PROGRAM (EWMP)

FOR  
NORTH SANTA MONICA BAY COASTAL WATERSHEDS



Submitted to:  
Los Angeles Regional Water Quality Control Board

Submitted by:  
North Santa Monica Bay Coastal Watersheds EWMP Group

March 2016

## ENHANCED WATERSHED MANAGEMENT PROGRAM

- Receiving Water Limitations
- Total Maximum Daily Load Provisions
- Coordinated Integrated Monitoring Program Implementation



**SAFE CLEAN WATER L.A.**

## SAFE CLEAN WATER (MEASURE W)

- Measure W was passed by voters at 11/06/18 election
- 2.5 cents parcel tax per ft<sup>2</sup> of impervious area
- Can only be used for stormwater projects
- Malibu receives \$380,000 annually
- \$1,800,000 in regional funding available annually

# WASTE REDUCTION

Work Plan Items:

5.g. Solid Waste Management Program Enhancements

## PRE-PANDEMIC

AB 1826 –  
Mandatory Organics  
Recycling



Zero Waste  
City Hall



Food Recovery



PEPPERDINE  
UNIVERSITY

## DURING PANDEMIC



# COASTAL

Work Plan Items:

5. i Coastal Vulnerability Assessment



The Malibu Living Shoreline Project will restore approximately three acres of sandy beach and dune habitat at Zuma Beach and Point Dume Beach in Malibu.

The Malibu Living Shoreline Project



## How Do Dunes Work?

Native plants stabilize the sand with their roots, trap wind-blown sand, and accumulate sand over time.

Dunes form and keep sand on the beach.

Dunes grow and form natural defense against flooding caused by coastal storms and sea level rise.

The Malibu Living Shoreline Project

## MALIBU LIVING SHORELINE

City Council meeting on 1/27/20:  
Approved the request from The Bay Foundation to waive review fees for the Malibu Living Shoreline Project.

## PROJECT GOALS

- Increase the resiliency of the shoreline
- Protect against sea level rise and coastal storms
- Increase engagement of the community

Council Action 01/27/20

# ZUMA BEACH SITE



Before invasive plant species removal.



After 40,000 lbs of invasive plant species removal.

# POINT DUME BEACH SITE



Biomimicry stakes to accumulate sand after 10,000 lbs of non-native plants removed.

# MALIBU LIVING SHORELINE FUTURE RENDERINGS

**Zuma Lagoon**  
Existing View



**Zuma Lagoon**  
Proposed View



**Point Dume Beach**  
Existing View



**Point Dume Beach**  
Proposed View: Phase 1



## COASTAL VULNERABILITY ASSESSMENT



City Council direction on  
1/28/18:

Conduct a Coastal  
Vulnerability Assessment  
that evaluates the  
susceptibility of the  
coastline to sea level rise.

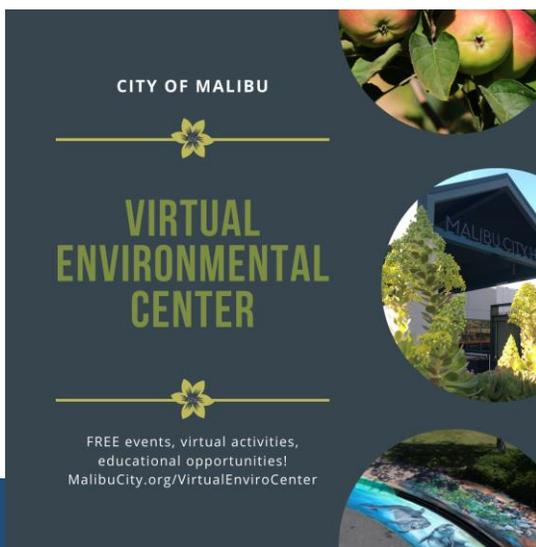
**Council Action 01/22/18**

# OUTREACH & EVENTS

Work Plan Items:

## 5.d. Sustainability Outreach

- 09/19: E-Waste Collection (3.3 tons)
- 09/26: Annual Bulky Item Pick Up (4.2 tons)
- 10/17: HHW & E-Waste Collection
  - 140 gallons paint; 27 gallons motor oil; 2.3 tons e-waste
- 10/27: Clean Up Malibu
- 12/12: LA County HHW & E-Waste Collection
- 12/28-01/10: Holiday Tree Recycling (3.36 tons)
- 02/20: HHW & E-Waste Collection
  - 86 gallons paint; 48 gallons motor oil; 2.5 tons e-waste





# LOOKING FORWARD

Energy

Water Conservation

Pollution Prevention

Waste Reduction

Coastal

Events & Outreach

# ENERGY

- Staff working with CPA on the Power Ready Program to install a no-cost energy resiliency project at one city facility
- Staff working with SoCalREN to conduct Comparative Energy Analysis of all municipal electricity accounts



# WATER CONSERVATION

Staff preparing for Fall 2021 webinar

FIND OUT WHICH  
LANDSCAPES ARE  
HIGH FIRE RISK  
AND WHY

FREE

Firescaping Workshops

**Firescaping** uses smart landscaping techniques and native plants to **protect your home from wildfires**. These practices combined with smart irrigation systems can help safeguard your home, use less water and **save money on your water bill**.



**MALIBU  
SMART**

Save water. Live well.

# WASTE REDUCTION



## AB 1826 – Commercial Organics Recycling

- Enrolling all commercial businesses to organic service by October 2021

## SB 1383 - Short-Lived Climate Pollutant Reduction

- Organic waste recycling and food recovery program by 2022
- Drafting Ordinance
- Developing Food Recovery Program
- Updating Procurement



## SB 1383 City Required to Maintain Records and Report to CalRecycle:



Organic  
Collection  
Services



Hauler  
Program



Contamination  
Minimization



Waivers



Education &  
Outreach



Edible Food  
Recovery  
Program



Recycled  
Organic  
Waste  
Procurement



Recycled  
Paper  
Procurement

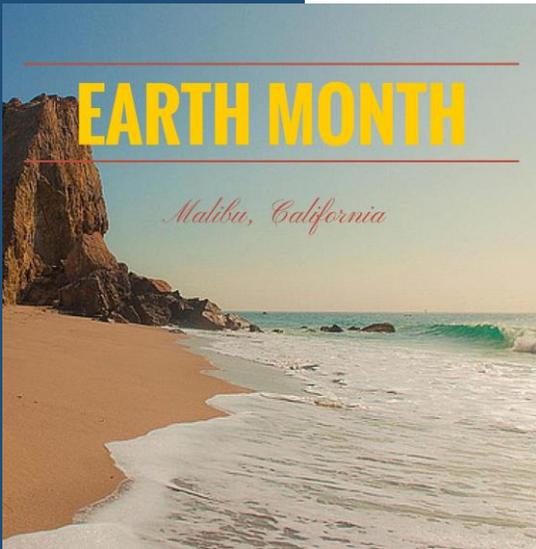


Commercial  
Edible Food  
Generators



Jurisdiction  
Inspection &  
Enforcement

# OUTREACH AND EVENTS



- 3/30/21: Earth Hour
- 4/17/21: Recycle Day (HHW & E-Waste Collection and Document Shred Day)
- 4/21/21: Virtual Firescaping Workshop
- 4/22/21: Earth Day
- 6/19/21: HHW & E-Waste Collection
- 08/21/21: HHW & E-Waste Collection
- 10/16/21: HHW & E-Waste Collection

Find out about upcoming events from City partners, virtual activities, education, and more at [www.malibucity.org/virtualenviro](http://www.malibucity.org/virtualenviro)

## FOLLOW US ON SOCIAL MEDIA FOR EVENTS AND UPDATES

New City events may be added after this report is published. Find us on [Facebook](#), [Instagram](#), and [Twitter](#) @MalibuEnviroDpt or sign up for Malibu Environmental Programs Calendar notifications via email or text at [www.malibucity.org/enviroevents](http://www.malibucity.org/enviroevents)



# POLLUTION PREVENTION



## LOCKING DUMPSTER LID

- Quarterly Inspections through June 2021
- In FY 21/22, report back to City Council on progress

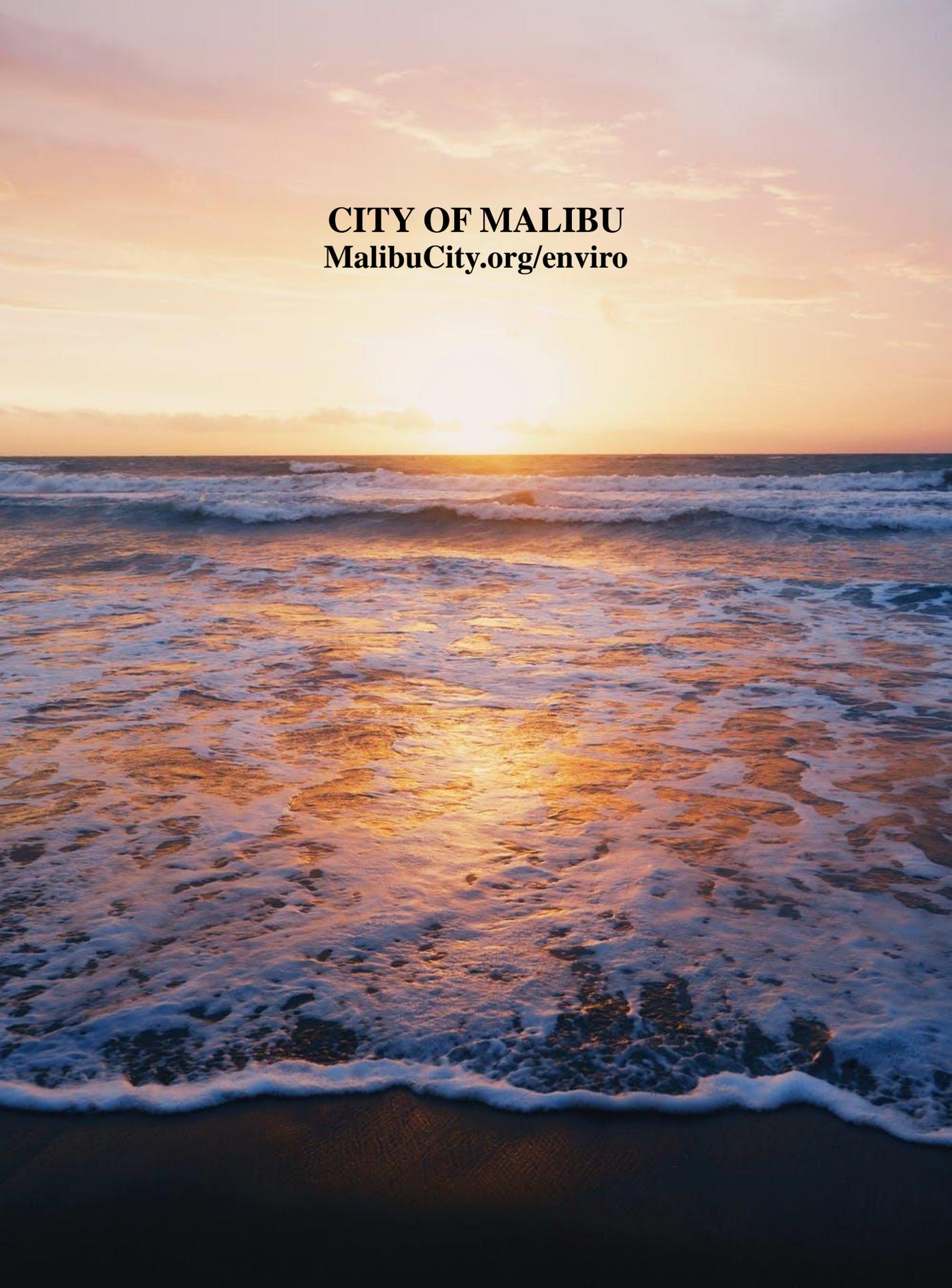
## CLEAN WATER REGULATIONS



- Prop 1 & Measure W
- Marie Canyon Green Streets
- Rural Drainage Inlets
- EWMP Update
- Regional Phase I MS4 Permit
- Non-stormwater Outfall Monitoring

## CLEAN WATER REPORTING

- Annual and semimanual reporting for the MS4 permit
- Annual, semiannual, and quarterly reporting for the WDR permit for the CCWTF Monthly reporting for the Malibu Creek Bacteria TMDL
- Annual 303 reporting for HHW/ABOP



**CITY OF MALIBU**  
**MalibuCity.org/enviro**