Snapshot Day 2017
May 6, 2017

Lisa Emanuelson
Volunteer Monitoring Coordinator
California Marine Sanctuary Foundation
Our National Marine Sanctuaries

- Olympic Coast
- Cordell Bank
- Gulf of the Farallones
- Monterey Bay
- Channel Islands
- Papahānaumokuākea (Northwestern Hawaiian Islands)
- Hawaiian Islands Humpback Whale
- Fagatele Bay
- American Samoa
- Thunder Bay
- Stellwagen Bank
- Monitor
- Gray’s Reef
- Florida Keys
- Flower Garden Banks

Map Source: NASA

- National Marine Sanctuary
- Marine National Monument
Monterey Bay National Marine Sanctuary

- 4,601 sq. nautical miles
- 350 miles of coast
- multiple habitats
- largest under water canyon on the west coast
- deepest point 12,713 ft.
- 345 spp. of fish
- 94 spp. of sea birds
- 33 spp. of marine mammals
- 7000 sq. mile watershed
Since 2000

What is the quality of water flowing into Monterey Bay National Marine Sanctuary?

Develop a long term data set of quality monitoring results to enable resource managers to make good decisions to protect the environment

Inspire stewardship
Partnerships are key!

Coastal Watershed Council
San Mateo County RCD
Sewer Authority Mid-Coast
EPA
County of Santa Cruz
City of Watsonville
City of Santa Cruz
San Luis Obispo County Heath Lab
San Mateo County Health Department
Morro Bay NEP
Watsonville Wetlands Watch
City of Salinas
City of Scotts Valley
MRSWMP
Snapshot Day

2017 Stats
146 sites
179 volunteers

4 Hubs
Half Moon Bay
Santa Cruz
Monterey
San Simeon

Snapshot Day Sites 2016

- Snapshot Day Site
- River
- Urban Area
- Park
- County Line
- Watershed
- Monterey Bay National Marine Sanctuary

Map showing the locations of Snapshot Day sites along the California coastline, with markers for Half Moon Bay, Santa Cruz, Monterey, and San Simeon.
Parameters

- Dissolved oxygen
- pH
- Water & air temperature
- Conductivity
- Turbidity/transparency
- Nitrate as N
- Orthophosphate as P
- *E. coli* and total coliform
Lessons learned....

“If you can't explain it to a six year old, you don't understand it yourself.” –Albert Einstein
Monterey Bay National Marine Sanctuary
Snapshot Day Field Data Sheet

Please use one sheet for each Station. Use back for comments.

Date: May 6, 2017

Watershed: 

Watershed Group Name: 

Site ID: 309-SALIN-31

Hydrologic Unit ID: 309

Volunteer Monitors: Lisa Emanuelson
Craig Noke

Weather Conditions:

Flow discharge (a rough estimate):
Stagnant (NOT Flowing): do not sample
Moderate (≤ 5 gallons)

Has it rained within the last 24 hours?
No Clouds
Heavy clouds

Volunteer Monitors:

Time of Field Measurements:

10:45 am

Instrument ID: PARAMETER: RESULT:

TT-3NET-42: Air Temperature: 18
TT-3NET-42: H2O Temperature: 14.5
ST-3NET-1-5: pH: 7.25
ST-3NET-1-5: Dissolved Oxygen: 9
EC-3NET-5: Conductivity: 650
TRT-3NET-3: Transparency: 54.2

Notes and Observations:

Sample Collection:

<table>
<thead>
<tr>
<th>Site ID</th>
<th>Time Collected</th>
<th>Collected By</th>
<th>Type</th>
<th>Container type</th>
</tr>
</thead>
<tbody>
<tr>
<td>309-SALIN-31</td>
<td>10:35 am</td>
<td>Dave Parara</td>
<td>Bacteria</td>
<td>100 ml with WHITE plastic lid-STERILE</td>
</tr>
<tr>
<td>309-SALIN-31</td>
<td>10:35 am</td>
<td>Dave Parara</td>
<td>Nutrient</td>
<td>100 ml with WHITE plastic lid-NON-STERILE</td>
</tr>
</tbody>
</table>

Sample Custody:

This event sponsored by the Monterey Bay National Marine Sanctuary
In collaboration with the MSS Citizen Watershed Monitoring Network and the Coastal Watershed Council

Do not jeopardize your personal safety to complete this datasheet. Lisa's Cell (831) 521-9512
Lessons learned....

Recruit from local colleges...

and provide food!
Lessons learned....
Get reliable help
Photo Contest!
Best technique
Funniest Team shot
Snapshot Day
Areas of Concern 2016

21 sites
14 water bodies
14 Year Report 2000-2013

2494 volunteers
243 sites total
186 > 5 years
9 major HUs +Estrella

Exceedances Trends