

The Monterey Bay Sanctuary Citizen Watershed Monitoring  
Network and the Coastal Watershed Council's

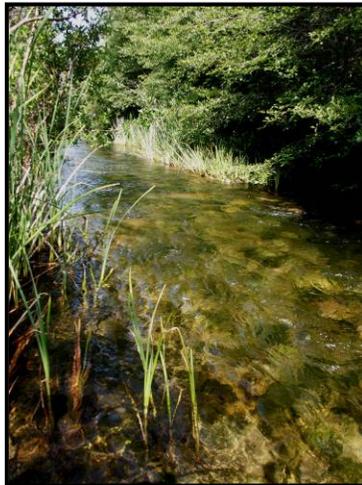


9<sup>th</sup> Annual



# Snapshot Day Report

## May 3<sup>rd</sup>, 2008



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Watershed Monitoring Network Coordinator



The 9<sup>th</sup> Annual Snapshot Day Event was coordinated by:

The Monterey Bay Sanctuary Citizen Watershed Monitoring Network,  
which supports citizen monitoring programs throughout the Monterey Bay National  
Marine Sanctuary.

831-647-4227

[www.montereybay.noaa.gov/monitoringnetwork/welcome.html](http://www.montereybay.noaa.gov/monitoringnetwork/welcome.html)

Coastal Watershed Council,

A public education non-profit advocating the preservation and protection of coastal  
watersheds through the establishment of community-based stewardship programs.

831-464-9200

[www.coastal-watershed.org](http://www.coastal-watershed.org)



A Quick Look at Snapshot Day

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Save The Whales  
Scott Creek Watershed Council  
Sewer Authority Mid-Coastside (SAM)  
Starbuck's Coffee  
Stormwater and Education Alliance  
Surfrider Foundation  
The Bagelry

**What:** Snapshot Day 2008

**Who:** 180 Volunteers

**Where:** 173 creeks and streams  
flowing into the Monterey Bay  
National Marine Sanctuary

**When:** May 3<sup>rd</sup>, 2008 (9<sup>th</sup> annual)

**Why:** To collect valuable information  
on the quality of water in local streams  
as well as provide an opportunity for  
the community to learn about  
environmental protection.

**How:** Volunteers from the Marin  
Headlands in the north to Morro Bay  
in the south, monitored creeks and  
streams for ambient water quality  
conditions such as temperature,  
turbidity, conductivity, dissolved  
oxygen, pH, nitrate, orthophosphate,  
and bacteria.

Trader Joe's  
United States Environmental Protection Agency  
UC Santa Cruz Environmental Studies Department  
Upper Crust Pizza  
Upper Salinas Las Tables RCD  
Upper Salinas Watershed Coalition  
Watershed Institute, CSUMB

## Methods

One volunteer training was conducted in each of the four counties that drain into the



Monterey Bay Sanctuary (San Mateo, Santa Cruz, Monterey, and San Luis Obispo). Volunteers learned about the history of the program, specific monitoring protocols, field safety and event logistics. In addition, volunteers were divided into teams, assigned a team leader and specific sampling sites.

Paul Michel, MBNMS Superintendent, welcomes volunteers at the Watershed Institute at CSUMB

On the morning of the event, volunteers met at hubs in San Mateo, Santa Cruz, Monterey, and Cambria. They signed in, enjoyed breakfast and checked out their monitoring equipment. In Monterey, Paul Michel, Superintendent of the MBNMS, and Bonnie VanHise, assistant to Congressman Sam Farr, offered welcoming comments. In Santa Cruz, Mayor Ryan Coonerty welcomed volunteers. After a group photo was taken, volunteers split into their groups and set out to monitor their sites.



Mayor Coonerty of Santa Cruz welcomes volunteers

Monterey County volunteers take a group photo before heading out to their monitoring sites



| Parameter  | Why it's measured   | Instruments Used                                    | Water Quality Objective  | Source of WQO                                    |
|--|---|---|--|--|
| Dissolved Oxygen (ppm)                                 | Oxygen is essential to all life. Aquatic organisms rely on sufficient amounts of dissolved oxygen to perform regular behaviours like feeding, spawning, and incubating. Excessive nutrients in water can cause excess plant growth; when organisms break down these plants, they deplete the amount of oxygen available for others.                                   | YSI Dissolved Oxygen Meter, Winkler, or CHEMets Kit | Not lower than 7 or greater than 12  | Basin Plan Objective for Cold Water Fish         |
| pH   | pH is a measure of the percent of hydrogen ions in a water column. A value of 7 is neutral, above that is alkaline and below is acidic. Aquatic organisms require a narrow pH range to carry out necessary biological functions.  | Machery-Nagel non-bleeding pH strips                | Not lower than 6.5 or greater than 8.5   | General Basin Plan Objective                     |
| Water Temperature (degrees C)                          | Water temperature affects the life and health of aquatic ecosystems. Fish and other aquatic life need a certain range of water temperatures in which to survive and reproduce. Water temperature can also affect the amount of dissolved oxygen in the water column and the rate of photosynthesis in aquatic plants.   | Digital or bulb thermometer                         | Not greater than 22  | Basin Plan Objective for Cold Water Fish         |
| Turbidity (JTU) and Transparency (cm)                  | High turbidity levels can indicate problems upstream such as erosion, nutrient loading, or extraordinary algae growth.  | Transparency tube or a Dual Cylinder turbidity kit  | Transparency: not greater than 25 cm.<br>Turbidity: not greater than 20 JTU    | Central Coast Ambient Monitoring Program (CCAMP) |
| Nitrate as N and Orthophosphate as P (mg/l or ppm)     | Naturally occurring in streams, rivers, and lakes, excess nutrients can be leached into water bodies in the form of fertilizers, pesticides, detergents, animal waste, sewage, or industrial waste. Excessive nutrients can lead to extreme algae or other plant growth, which when broken down can deplete the amount of dissolved oxygen in the water column.       | Grab sample-sample processed at laboratory          | Not to exceed 2.25 mg-N/l Nitrate-N and 0.12 mg-P/l Orthophosphate-P.          | Central Coast Ambient Monitoring Program (CCAMP) |
| Bacteria: <i>E.coli</i> and Total coliform (MPN/100ml) | Coliform bacteria are generally used as an indicator of food and water sanitation. Most coliform bacteria originate from the feces of warm blooded animals and therefore can indicate the presence of human sewage or wildlife feces. Coliform bacteria are usually not themselves the cause of sickness, they can indicate that other harmful pathogens are present. | Grab sample-sample processed at laboratory          | Not to exceed 400 MPN/100ml <i>E. coli</i> and 10,000 MPN/100ml Total coliform | EPA Ambient Water Quality Criteria               |

Table 1. A quick look at SSD parameters and WQO's

The parameters measured by the volunteers are referenced in Table 1. In addition to the equipment listed in Table 1, monitoring kits also included a thermometer for air temperature, distilled water, gloves, paper towels, a trash bag, pens/pencils, sample bottles, and a clipboard with data sheets, instructions, maps, and photo documentation forms.



Meagan Maughan, Sacha Lozano and Jason Williams at the Salinas Reclamation Ditch.

The sample collection and field measurement protocols were developed for the coast-wide SSD event in 2003 by the State Water Resources Control Board's Clean Water Team. All SSD results are compared with water quality objectives (WQO's) recommended by

the Central Coast Ambient Monitoring Program (CCAMP), the Basin Plan, or the US Environmental Protection Agency. All collection methods and lab analysis followed the requirements set forth in a state approved Quality Assurance Project Plan and Monitoring Plan ensuring all data is of known quality.



Erica Burton measures conductivity with Sydney Watts.

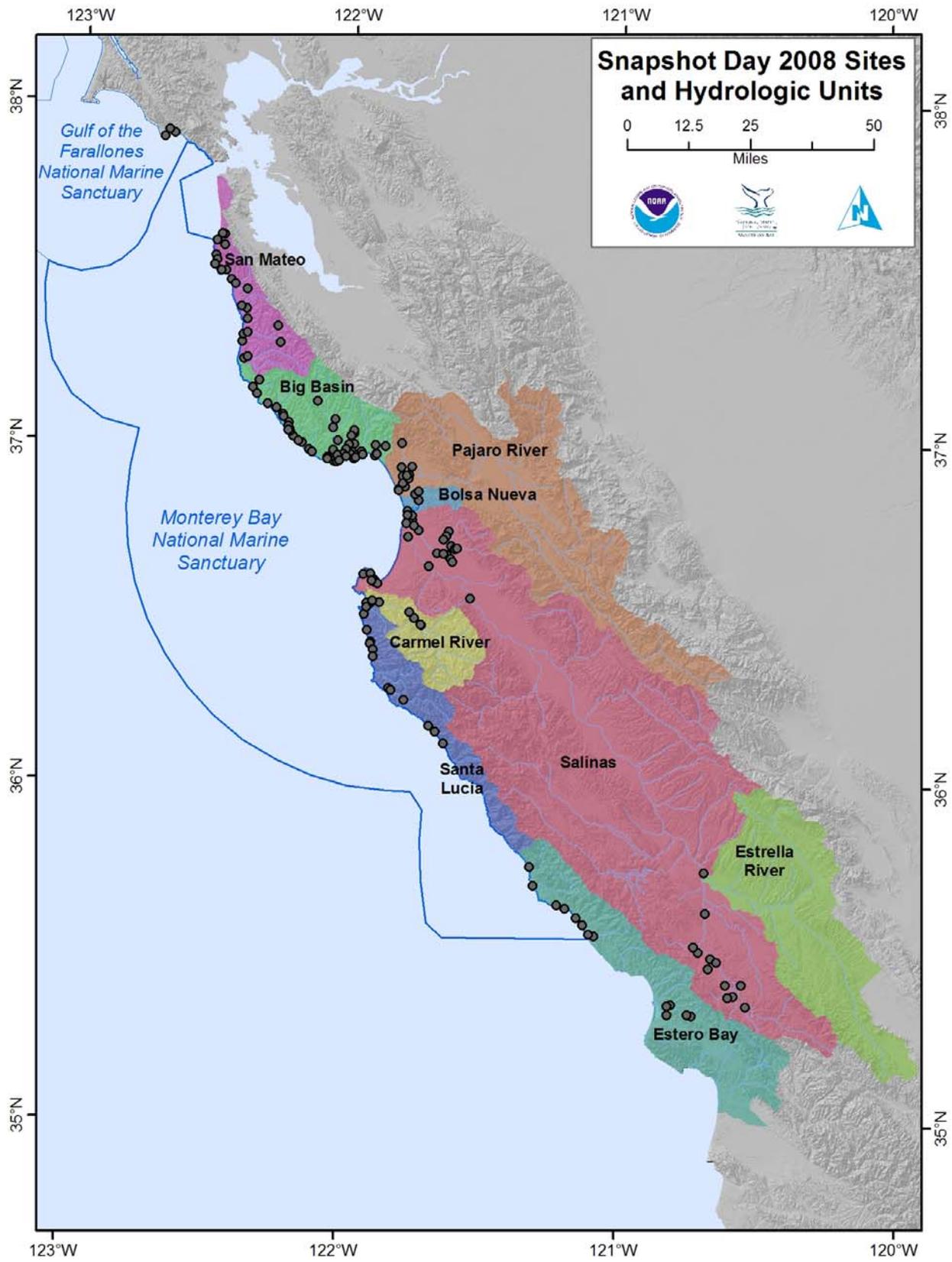


Figure 1. Snapshot Day sites

## Results

Intermittent fog and clouds hung above much of the Central Coast on SSD. Volunteers sampling inland sites saw more sun and more heat; coastal sites were wet and cool. The air temperature ranged from 9.9 degrees Celcius in Marin county at 9:35 am, to 25.6 degrees Celcius along the Tembladero Slough in Monterey county at 10:35am. No rain was recorded with in 24 hours prior to the event.

Just 49% of the sites sampled met the water quality objectives for all parameters. In 2007, 50% of sites met all objectives. Specifically, this year 84 of 173 sites met the Water Quality Objectives (WQO) for all parameters (See Table 2 for a quick look at all statistical results). Tabular results of Snapshot Day 2008, by site and parameter, are found in Appendix 1. Spatial results are in Figures 2-4).



Alex Michel records measurements on a field data sheet.

Table 2. Statistical Results

| Parameter                  | WQO          | Stations Sampled/Tested | Number of Exceedances | % of Sites with Exceedances | Minimum Result | Maximum Result | Average Result | Median Result |
|----------------------------|--------------|-------------------------|-----------------------|-----------------------------|----------------|----------------|----------------|---------------|
| Air Temp (°C)              | none         | 156                     | N/A                   | N/A                         | 9.5            | 25.6           | 10.0           | 14.8          |
| Water Temp (°C)            | ≤ 22         | 162                     | 5                     | 3%                          | 8.8            | 26.7           | 13.7           | 12.5          |
| Dissolved Oxygen           | ≥ 7, ≤ 12    | 151                     | 24                    | 16%                         | 3.0            | 13.2           | 9.2            | 9.0           |
| pH                         | ≥ 6.5, ≤ 8.5 | 162                     | 8                     | 5%                          | 6.0            | 9.5            | 7.2            | 7.0           |
| Conductivity (µS)          | none         | 159                     | N/A                   | N/A                         | 51             | 19900          | N/A            | N/A           |
| Transparency (cm)          | ≥ 25         | 96                      | 16                    | 17%                         | 1              | 120            | 94             | 120           |
| Turbidity (JTU)            | ≤ 20         | 52                      | 0                     | 0%                          | 0              | 20             | 6              | 5             |
| E. Coli (MPN/100ml)        | ≤ 400        | 165                     | 40                    | 24%                         | 2              | 61314          | 1040           | 125           |
| Total coliform (MPN/100ml) | ≤ 10,000     | 165                     | 30                    | 18%                         | 20             | ≥ 241960       | 11747          | 2014          |
| Nitrate-N (mg-N/L)         | ≤ 2.25       | 171                     | 34                    | 20%                         | ND             | 65.70          | 3.79           | 0.10          |
| Orthophosphate-P (mg-P/L)  | ≤ 0.12       | 171                     | 18                    | 11%                         | ND             | 0.70           | 0.07           | 0.05          |

## Water Temperature

The WQO for water temperature is below 22 degrees Celcius (°C). This year, just five sites exceeded this objective, the same number as last year. The maximum water temperature reached 26.7 °C, which was measured in the Moro Cojo Slough. The minimum water temperature was 8.75 °C, measured at San Gregorio Creek in San Mateo County.

The average water temperature on May 3<sup>rd</sup> was 13.7 °C and median was 12.5 °C.



Bobby Jo Close near Santa Margarita Creek

## Dissolved Oxygen

The WQO for dissolved oxygen is greater than seven and less than 12 ppm. Twenty-four of 151 sites monitored did not meet this objective (16%). This is down from last year, when 21% of sites did not meet this objective. This year, the maximum



Marlene Hurtado on the Salinas River

dissolved oxygen concentration was 13.23 mg/l at Upper Choro Flats (near Morro Bay), and the minimum concentration was 3 mg/l along Elkhorn Slough. The average concentration was 9.2 mg/l, and the median was 9 mg/l. This is similar to last year's average and median.

## Conductivity

There is no WQO for conductivity; it is a relative measurement of ambient water quality conditions indicating the amount of polar molecules (salts) in the water. This measurement changes for each site based on water source and geology. The minimum

conductivity reading was 51 micro Siemens and the highest reading was 19,900 micro Siemens.

## pH

The WQO for pH is greater than 6.5 and less than 8.5. One hundred and sixty-two sites were monitored for pH; just eight of these did not meet the WQO (5%).



Shayna Gonzales, Chris Bailey, and Tara Gonzales on the upper Salinas River.

Five of these were below 6.5 and three were above 8.5. The highest pH was 9.5 measured in the Moro Cojo Slough.

## Transparency/Turbidity

Most of the Monterey and San Luis Obispo county sites measured transparency with a transparency tube,

while most of the Santa Cruz and San Mateo county sites used dual cylinder turbidity kits. The WQO for

transparency is greater than 25 cm. Of the 96 sites that measured transparency, 16 did not meet the WQO (17%). In 2007, 13% of the sites did not meet the WQO. The average transparency this year was 94 cm, the median was 120 cm, and the minimum was one centimeter found at Moro Cojo Slough.

For turbidity, 52 stations used turbidity kits that measured in Jackson Turbidity Units (JTUs). The WQO for turbidity is less than or equal to 20 JTUs. No sites exceeded that objective this year, which is down from 14% exceedance last year. Volunteers were also asked to record visual observations about the site's water clarity. Twenty-six



Sara Kelly, Steve Richmond, and Kim Ha at the Carmel River

sites were recorded as murky, 21 as cloudy, and 105 as clear.

## Nutrients

### Nitrate-N ( $\text{NO}_3\text{-N}$ )

The WQO for nitrate as nitrogen is 2.25 mg-N/l. This year, 34 of the 171 sampled sites exceeded this WQO (20%). This is up from last year's exceedance rate of 14%. Of the 34 sites that exceeded this WQO, most (24) were in the Lower Salinas Valley Watershed. The maximum concentration of nitrate was 65.7 mg-N/l, found at Upper Natividad Creek. Last year, the greatest nitrate concentration was 37 mg-N/l. The average nitrate concentration this year was above the WQO at 3.79 mg-N/l, and the median was 0.1 mg-N/l.

### Orthophosphate-P ( $\text{PO}_4\text{-P}$ )

The WQO for orthophosphate is 0.12 mg-P/l. Eighteen of the 171 sites sampled exceeded the WQO, an exceedance rate of 11%. This is just under last year's exceedance rate of 12%. The maximum concentration of orthophosphate was 0.7 mg-P/l measured on the Salinas Rec Ditch, the average was 0.07 mg-P/l, and the median was a non-detect reading of 0.05 mg-P/l.

### Bacteria

For *Escherichia coli* (*E. coli*), the WQO is 400 MPN/100ml. This year, 40 of 165 sites (24%) exceeded the WQO, down from 23% last year. The maximum concentration was 61,314 MPN/100ml, found in Santa Rita Creek in the City of Salinas. The average concentration was 1,040 MPN/100ml, and the median was 125 MPN/100ml.



Santa Rita Creek

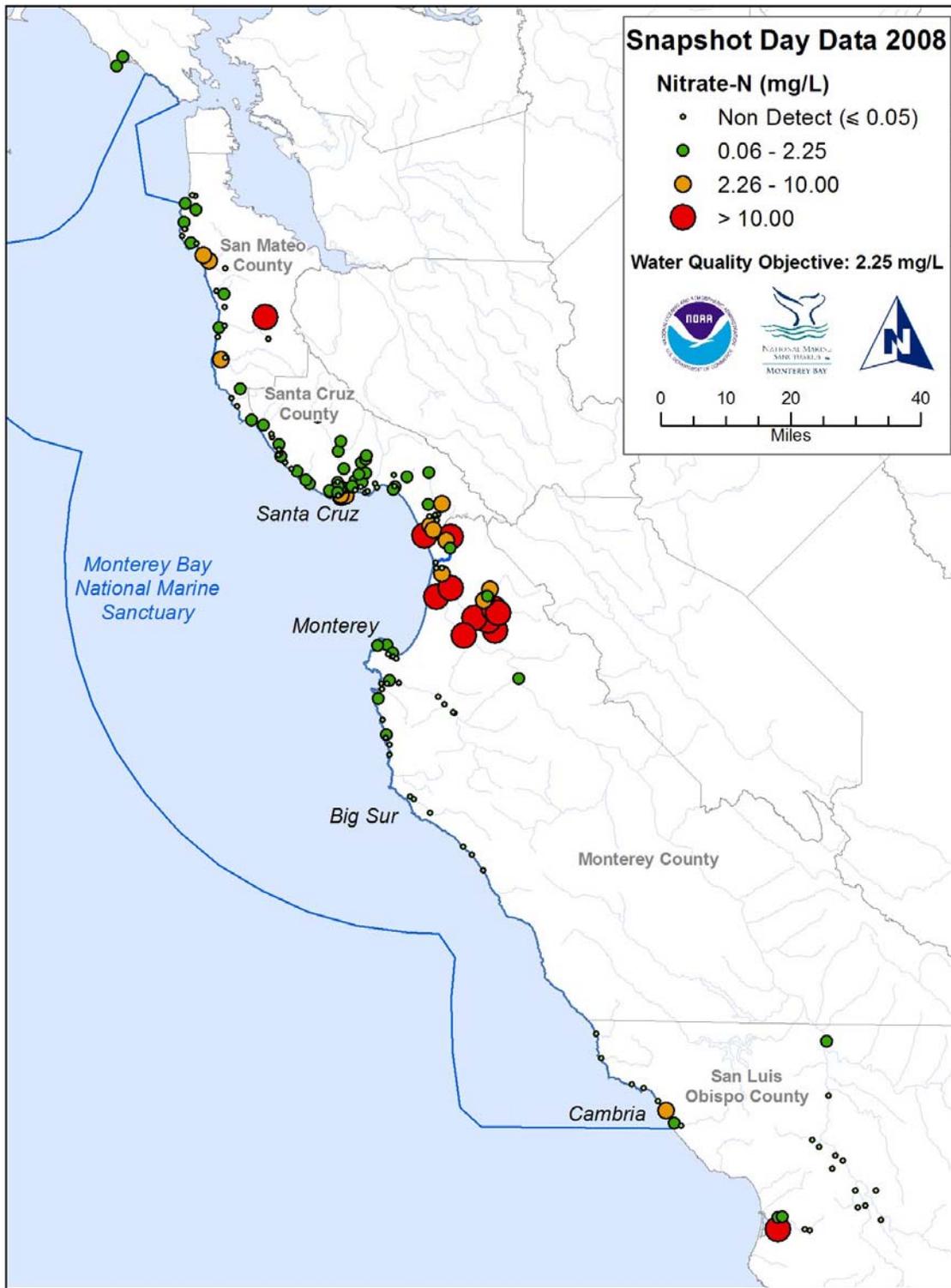


Figure 2. Nitrate-N concentrations for Snapshot Day 2008.

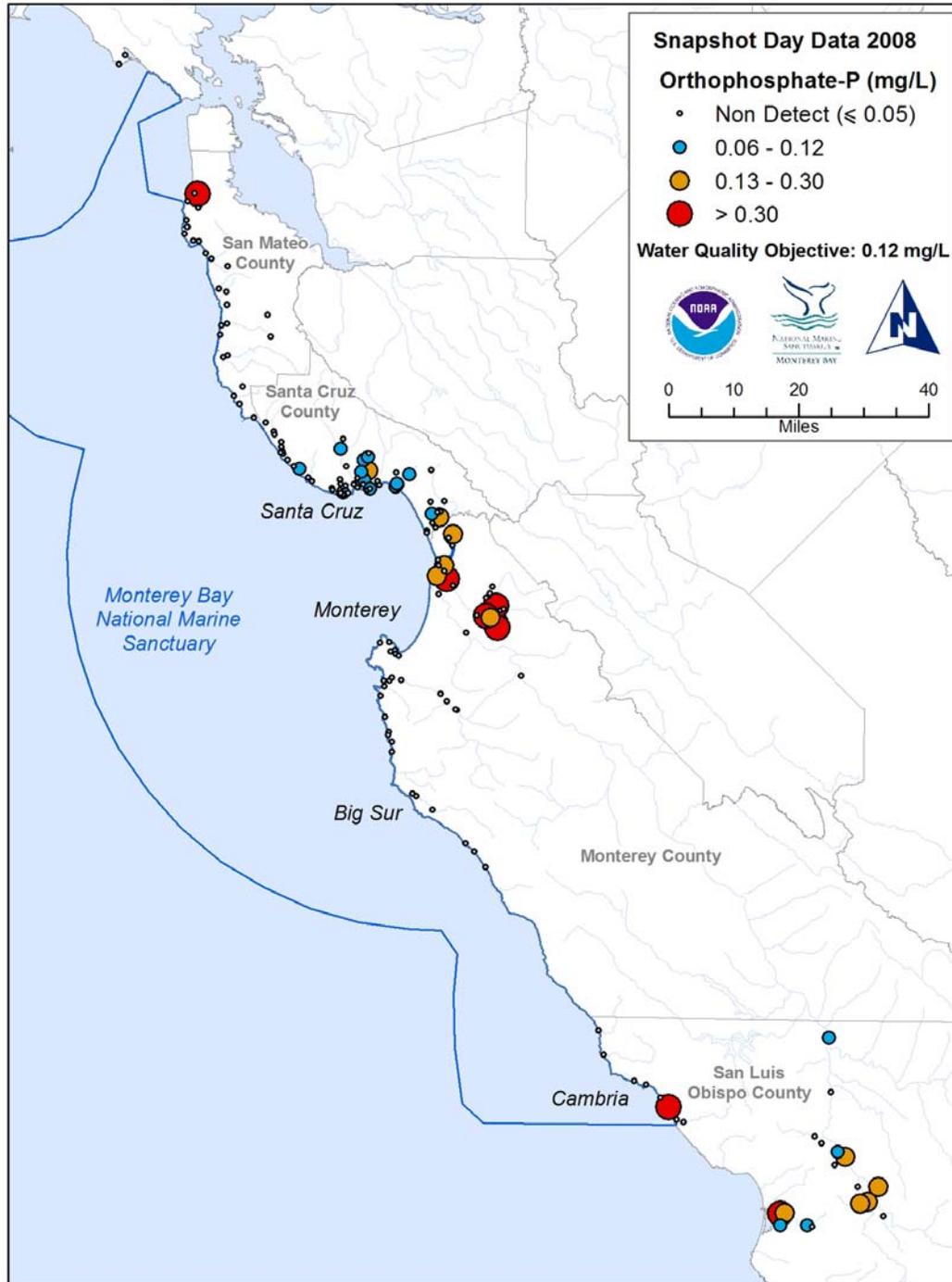


Figure 3. Orthophosphate-P concentrations for Snapshot Day 2008

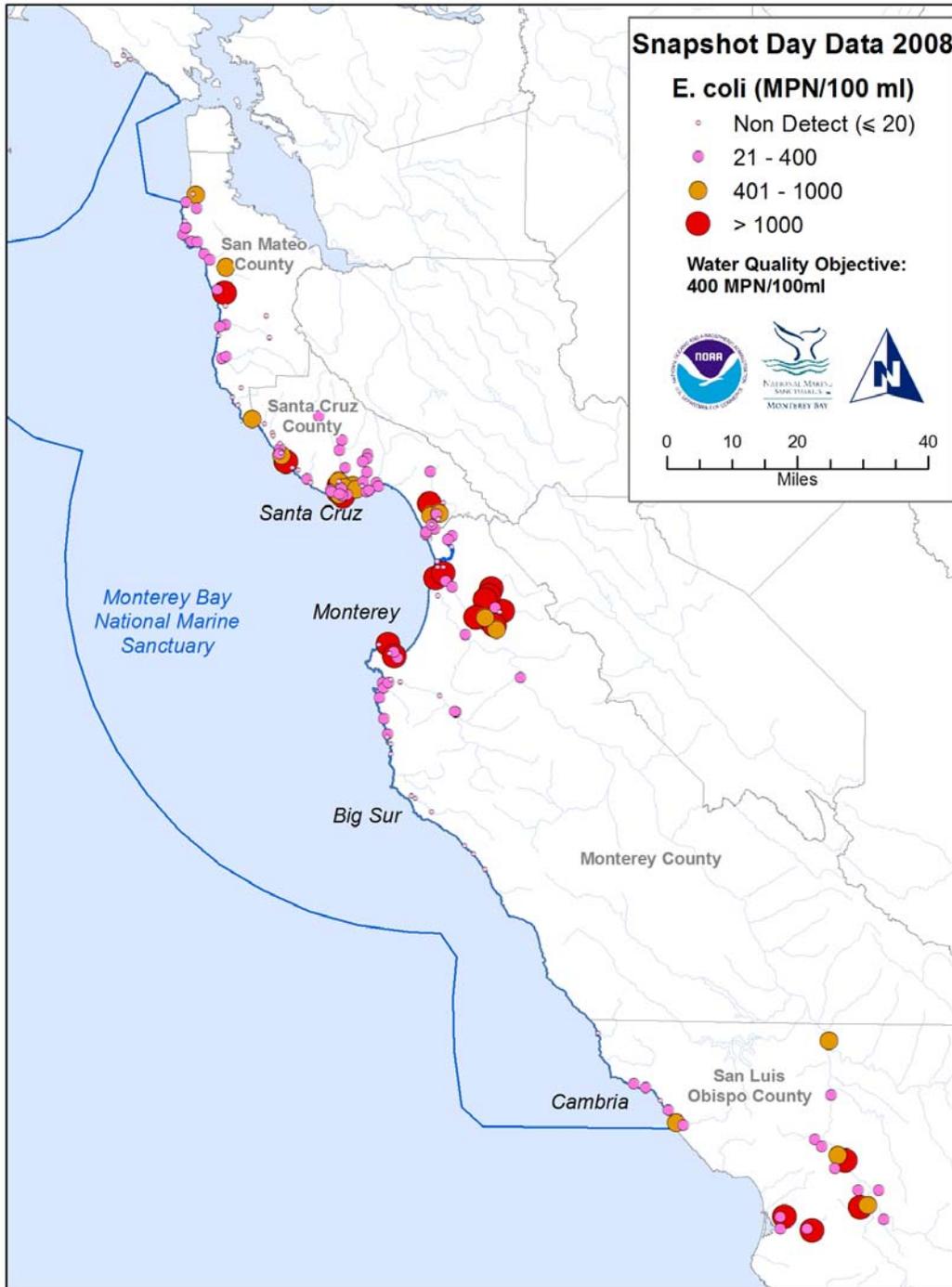


Figure 4. *E. coli* concentrations for Snapshot Day 2008.

## Areas of Concern

Sites that exceed three or more WQO's are designated as "Areas of Concern" (Figure 6). Over the past several years, a trend has emerged of more than one Area of Concern per water body. For example, in 2007 and 2008, the Reclamation Ditch, Santa Rita Creek, and the Tembladero Slough all have more than one site that is an Area of Concern. Last year, a switch was made to the graph in Figure 5 to represent water bodies instead of individual sites. This trend information points to increasing problems on certain water bodies.

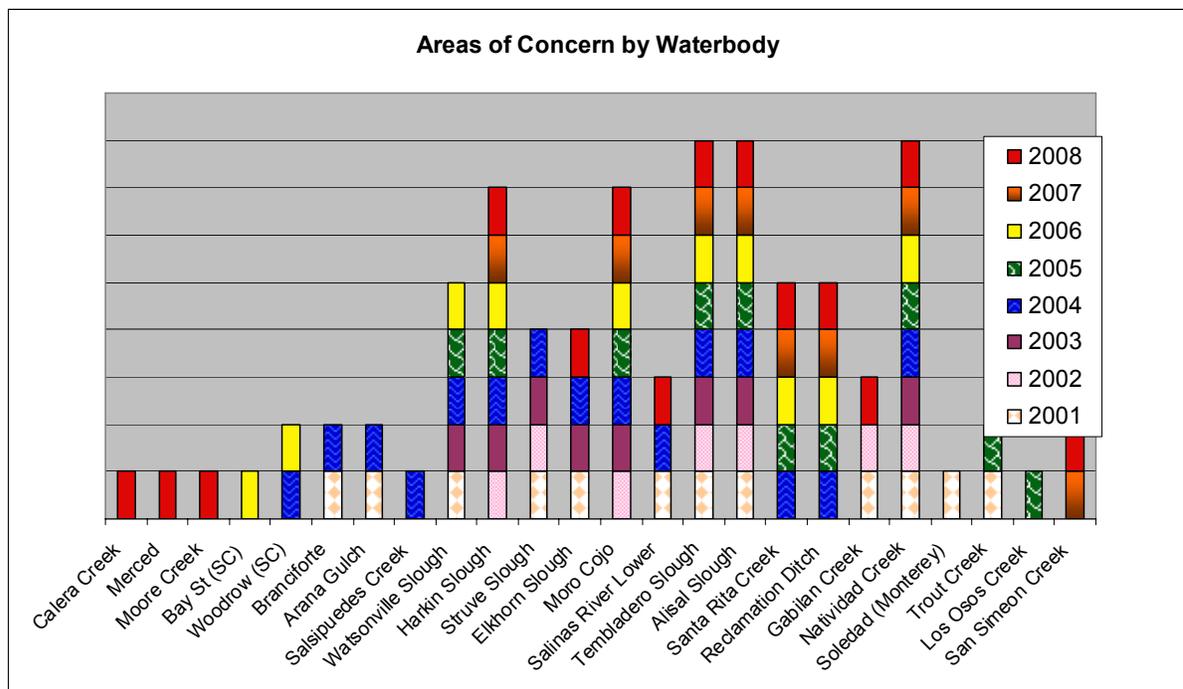


Figure 5. Eight year trend of water bodies listed as Areas of Concern. (Soledad Creek has not been monitored since 2003).

This year, Snapshot Day participants helped to identify 26 Areas of Concern, up from 16 last year. The majority of these sites (22) are located on just 14 water bodies.

The California State Water Resources Control Board puts out a list of impaired water bodies called the 303(d) list. This is a list of water bodies that are found to be

impaired by one or more pollutant. Of the 14 water bodies identified as Areas of Concern, nine of these are listed in 303(d) for Region 3 (central coast). These 303(d) listed waterbodies include: Elkhorn Slough, Gabilan Creek, Moro Cojo Slough, Natividad Creek, Salinas River and Old Salinas River, Salinas Reclamation Canal (Rec Ditch), Santa Rita Creek, Tembladero Slough and the Watsonville Slough.

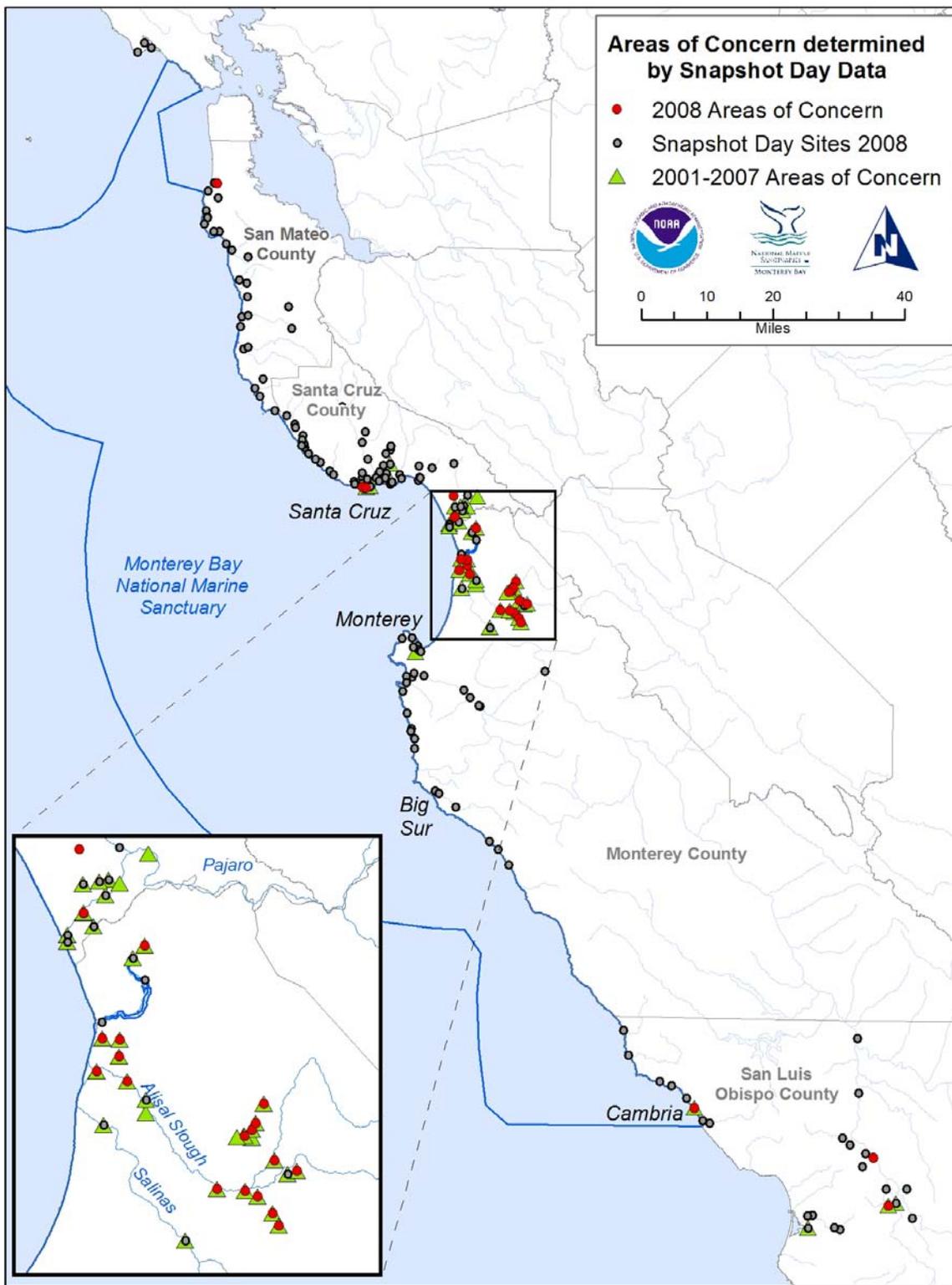


Figure 6. Snapshot Day Areas of Concern.

## Conclusion

This 9<sup>th</sup> annual Snapshot Day event brought together over 180 citizens concerned with central coast water quality. These volunteers pulled together to complete a monitoring effort that could not have been accomplished by resource agencies alone. Thanks to the efforts of these volunteers, we now have another year of data from 173 creeks and streams along the central coast.

This data has been combined with the data from the past eight Snapshot Day events and gives us an idea of the quality of water on the central coast. In general, results from the waterbodies along the San Mateo Coast and Big Sur Coast continue to demonstrate healthy conditions for cold water fish. Overall, the percentage of sites that did not meet the water quality objectives for water temperature, *E. coli*, and orthophosphate remained the same as in 2007. Turbidity exceedances were down 14% in Santa Cruz and San Mateo counties. Exceedences of the dissolved oxygen WQO were also down 5% from 2007. The only parameter with more exceedences than in 2007 was nitrate, up 6%, with higher average concentrations as well.



Lisa Lurie and Sophie DeBeukelaer assist Anna Holden-Martz check in volunteer Sacha Lozano



The 2008 Snapshot Day Areas of Concern jumped this year to 26 from 16 last year. However, in 2006 there were also 26 Areas of Concern (not the same 26). Like in previous years, most Areas of Concern were found on just 14 water bodies.

For years the Sanctuary and its agricultural partners have been working together through the Agriculture Water Quality Alliance (AWQA). AWQA provides

farmers with tools to monitor their runoff and interpret monitoring results. AWQA partners encourage growers to improve water quality by providing education and assistance on implementing a number of management practices on their farms that can reduce polluted runoff. This information and assistance allows growers to take action to voluntarily clean up their farm practices.

Efforts are also taking place in local cities, through the Phase II Stormwater Management Plan implementation, by passing ordinances and implementing best management practices to reduce urban pollutants such as metals, nutrients and bacteria. By these major efforts and by zeroing in on the Areas of Concern, it is our hope that water quality conditions throughout the watersheds flowing to Monterey Bay National Marine Sanctuary will improve.

Snapshot Day is just one of many efforts to try to understand water quality conditions on the central coast. Snapshot data along with twelve other water monitoring programs was compiled into one database through the Central Coast Synthesis, Assessment, and Management (SAM) project. By integrating existing water quality data sets we are better able to identify information gaps, coordinate monitoring more efficiently and address spatial and temporal trends. A Central Coast SAM Water Quality Assessment and other pertinent documents can be downloaded at [http://www.ccamp.net/sam/index.php/Main\\_Page](http://www.ccamp.net/sam/index.php/Main_Page)

It is exciting that volunteer data is contributing information for many local efforts to improve the quality of water in local streams. It also increases people's awareness and knowledge about environmental issues. Without the help of so many dedicated volunteers, such a large effort would not be possible. Thanks again to all the wonderful citizens of the central coast who made such an effort possible!

# Appendix 1. Results. Highlight represents exceedance of WQO.

| County     | StationID    | Sample Collection Time | AirTemp | Conductivi | DO    | ECOLI | NO3-N | pH  | PO4   | Tcooli | TRANS | TURB | WaterTem |
|------------|--------------|------------------------|---------|------------|-------|-------|-------|-----|-------|--------|-------|------|----------|
| Marin      | 201-ALC-11   | 11:00:00 AM            | 13      | 15.42      | 7.04  | 10    |       |     | 7.8   |        | 259   | 10.5 | 9.7      |
| Marin      | 201-BOL-01   | 11:00:00 AM            | 15      | 50.9       | 7.8   | 10    |       |     | 7.6   |        | 31    | 8    | 10.8     |
| Marin      | 201-DUX-10   | 10:30:00 AM            | 11      |            | 10.15 | 10    | 0.3   |     | 7.6   | 0.05   | 204   | 9.56 | 11.3     |
| Marin      | 201-PIG-10   | 10:15:00 AM            | 19      | 179.3      | 10.1  | 10    | 0.2   |     | 7.4   | 0.05   | 288   | 0.91 | 11.3     |
| San Mateo  | 202-ALPIN-11 | 11:10:00 AM            | 14      | 1060       | 10    | 10    | 0.01  |     | 8     | 0.05   | 341   | 122  | 10.5     |
| San Mateo  | 202-BEARG-11 | 11:56:00 AM            | 16      | 100        | 8     | 10    | 0.01  |     | 6.5   | 0.05   | 98    | 120  | 11       |
| San Mateo  | 202-BUTAN-11 | 11:20:00 AM            | 11      | 440        | 9.2   | 62    | 4.31  |     | 7     | 0.05   | 253   | 120  | 11       |
| San Mateo  | 202-CALER-11 | 11:06:00 AM            | 12      | 700        | 6.3   | 683   | 0.01  |     | 7     | 0.5    | 2014  | 120  | 13       |
| San Mateo  | 202-CALER-12 | 11:45:00 AM            | 12      | 400        | 8.4   | 10    | 0.01  |     | 7     | 0.05   | 1850  | 120  | 12       |
| San Mateo  | 202-DEERC-12 | 9:30:00 AM             | 13      | 450        | 10    | 134   | 0.01  |     | 7     | 0.05   | 472   | 0.5  | 10.5     |
| San Mateo  | 202-DENNI-11 | 12:55:00 PM            | 14      | 280        | 9.4   | 145   | 1.17  |     | 6.5   | 0.05   | 763   | 0    | 12       |
| San Mateo  | 202-FRENC-11 | 10:37:00 AM            | 14      |            | 10.5  | 259   | 3.01  |     | 7     | 0.05   | 520   | 1    | 12.5     |
| San Mateo  | 202-GAZOS-11 | 10:30:00 AM            | 14      | 400        | 6     | 10    | 0.01  |     | 6.5   | 0.05   | 132   | 120  | 11.5     |
| San Mateo  | 202-GAZOS-15 | 12:23:00 PM            | 13      | 300        | 8     | 10    | 1     |     | 6.5   | 0.05   |       | 120  | 11       |
| San Mateo  | 202-LOBIT-11 | 9:45:00 AM             | 10.6    | 990        | 10.4  | 1860  | 1.74  |     | 8.5   | 0.05   | 2143  | 5    | 9.5      |
| San Mateo  | 202-MARTI-11 | 9:35:00 AM             | 10      | 250        | 9.8   | 10    | 0.78  |     | 6.5   | 0.05   | 189   | 5    | 11       |
| San Mateo  | 202-MILLC-11 | 12:07:00 PM            | 16      | 830        | 10.5  | 480   | 0.01  |     | 7     | 0.05   | 1017  | 0.5  | 11.5     |
| San Mateo  | 202-MONTA-11 | 10:45:00 AM            | 11      | 460        | 7     | 135   | 0.01  |     | 6.5   | 0.05   | 670   | 5    | 11       |
| San Mateo  | 202-MONTA-12 | 10:45:00 AM            | 10      | 470        | 7     | 96    | 0.01  |     | 6.5   | 0.05   | 794   | 20   | 11       |
| San Mateo  | 202-PESCA-11 | 12:25:00 PM            | 11      | 750        | 8.65  | 41    | 0.01  |     | 7     | 0.05   | 936   | 120  | 12.5     |
| San Mateo  | 202-PILAR-11 | 11:17:00 AM            | 14      | 530        | 10.5  | 231   | 3.7   |     | 7     | 0.05   | 624   | 0    | 11.5     |
| San Mateo  | 202-POMPO-11 | 9:55:00 AM             | 12      | 1400       | 9.4   | 10    | 0.01  |     | 7     | 0.05   | 246   | 120  | 13.5     |
| San Mateo  | 202-PURIS-11 | 9:08:00 AM             | 10      | 690        | 9.8   | 309   | 0.01  |     | 8.5   | 0.05   | 464   | 5    | 10       |
| San Mateo  | 202-SANGR-11 | 11:00:00 AM            | 12      | 1210       | 10    | 86    | 0.71  |     | 8.5   | 0.05   | 313   | 5    | 14.5     |
| San Mateo  | 202-SANGR-12 | 10:50:00 AM            | 12.8    | 940        | 9.6   | 243   | 0.01  |     | 7.5   | 0.05   | 399   | 120  | 12.5     |
| San Mateo  | 202-SANGR-14 | 9:55:00 AM             | 12      | 700        | 9.4   | 10    | 12.64 |     | 7.5   | 0.05   | 52    | 122  | 8.75     |
| San Mateo  | 202-SANPE-11 | 12:55:00 PM            | 14      | 500        | 9.4   | 41    | 1.57  |     | 7     | 0.05   | 637   | 120  | 12       |
| San Mateo  | 202-SANPE-13 | 12:20:00 PM            | 14      | 500        | 9.6   | 216   | 1.49  |     | 6.5   | 0.05   | 754   | 120  | 11.5     |
| San Mateo  | 202-SANVI-11 | 12:20:00 PM            | 10      | 310        | 9.4   | 323   | 0.01  |     | 6.5   | 0.05   | 1046  | 10   | 11       |
| San Mateo  | 202-TUNIT-11 | 10:27:00 AM            | 11.5    | 910        | 10.6  | 10    | 0.01  |     | 8.5   | 0.05   | 20    | 5    | 9.8      |
| San Mateo  | 202-WHITE-12 | 9:33:00 AM             | 14      | 300        | 8     | 20    | 0.01  |     | 7     | 0.05   | 120   | 120  | 12       |
| Santa Cruz | 304-APTOS-21 | 10:28:00 AM            | 14.5    | 780        | 9     | 0     | 0     | 7.3 | 0     |        |       | 0    | 10.8     |
| Santa Cruz | 304-APTOS-22 | 11:43:00 AM            | 12      | 800        | 8     | 0     | 0     | 7.5 | 0.082 |        |       | 0    | 10.6     |
| Santa Cruz | 304-APTOS-23 | 12:00:00 PM            | 12.5    | 980        | 10    | 0.349 | 0     | 7.5 | 0.104 |        |       | 0    | 12.8     |
| Santa Cruz | 304-ARANA-21 | 11:54:00 AM            | 15      | 600        | 8.6   | 305   | 0.495 | 6.5 | 0.106 |        | 2909  | 0    | 10.5     |
| Santa Cruz | 304-ARANA-22 | 10:06:00 AM            | 17.5    | 19000      | 5.1   | 5     | 0     | 7   | 0     |        | 173   | 5    | 13       |
| Santa Cruz | 304-ARANA-23 | 12:53:00 PM            | 13.5    | 400        | 10    | 31    | 0.294 | 6.5 | 0.146 |        | 341   | 0    | 11       |
| Santa Cruz | 304-ARROY-21 | 11:10:00 PM            | 17      | 710        | 160   | 0.722 | 0     | 6.5 | 0     |        | 2481  |      | 13.5     |
| Santa Cruz | 304-ARROY-22 | 11:47:00 AM            | 16      | 670        | 7     | 175   | 2.254 | 7   | 0.102 |        | 3255  | 15   | 18       |
| Santa Cruz | 304-ARROY-23 | 12:35:00 PM            | 15      | 670        | 11    | 145   | 3.145 | 7   | 0     |        | 3255  | 15   | 16       |
| Santa Cruz | 304-BEACH-21 | 12:05:00 PM            | 20      | 2500       | 10    | 52    | 37.45 | 8   | 0     |        | 4611  | 5    | 19       |
| Santa Cruz | 304-BRANC-21 | 12:15:00 PM            | 17.5    | 600        | 12.45 | 512   | 0.42  | 7.5 | 0     |        | 3076  | 5    | 16.5     |
| Santa Cruz | 304-BRANC-22 | 11:35:00 AM            | 14.5    | 610        | 10    | 0.23  | 0     | 7   | 0.072 |        |       | 35   | 11       |
| Santa Cruz | 304-BRANC-23 | 10:25:00 AM            | 13.1    | 520        |       | 0.606 | 0     | 7   | 0     |        | 120   |      | 11.5     |
| Santa Cruz | 304-BRANC-24 | 11:30:00 AM            | 15      | 620        | 9.8   | 305   | 0.211 | 7   | 0.06  |        | 1467  | 0.5  | 11.5     |
| Santa Cruz | 304-BRANC-25 | 12:00:00 PM            | 18      | 590        | 10.8  | 384   | 0.163 | 6.5 | 0     |        | 1565  | 10   | 11       |
| Santa Cruz | 304-CORCO-21 | 10:30:00 AM            | 20.5    | 17600      | 7.4   | 185   | 0     | 8.5 | 0     |        | 3873  | 5    | 17.5     |
| Santa Cruz | 304-CORCO-22 | 11:17:00 AM            | 17      | 14600      | 7.2   | 52    | 0     | 8.5 | 0     |        | 908   | 10   | 19       |
| Santa Cruz | 304-FERRA-21 | 10:09:00 AM            | 14      | 380        | 94    | 24192 | 0     | 7   | 0     |        | 24192 | 5    | 11       |
| Santa Cruz | 304-GRANI-21 | 10:20:00 AM            | 12      | 510        | 10.6  | 41    | 0.26  | 6.5 | 0.087 |        | 3169  | 5    | 9        |
| Santa Cruz | 304-LAGUN-21 | 10:10:00 AM            | 16      | 480        | 10    | 135   | 0.153 | 7   | 0     |        | 763   | 120  | 10       |
| Santa Cruz | 304-LIDEL-21 | 12:51:00 PM            | 13.5    | 360        | 8.44  | 20    | 0.869 | 7   | 0.085 |        | 605   | 0    | 11       |
| Santa Cruz | 304-LITTL-21 | 11:15:00 AM            | 13.4    | 410        | 10.2  | 5     | 0.062 | 6.5 | 0     |        | 332   | 120  | 11       |
| Santa Cruz | 304-MAJOR-21 | 11:00:00 AM            | 12      | 410        | 8     | 20    | 0.327 | 7   | 0     |        | 744   | 120  | 10       |
| Santa Cruz | 304-MOLIN-21 | 11:20:00 AM            | 12      | 300        | 10.82 | 517   | 0.3   | 7   | 0.05  |        | 3545  | 10   | 11       |
| Santa Cruz | 304-MOORE-21 | 10:28:00 AM            | 14.5    | 400        | 10.2  | 41    | 0     | 7   | 0     |        | 9804  | 10   | 18.5     |
| Santa Cruz | 304-MOORE-22 | 10:04:00 AM            | 13      | 370        | 10    | 0.539 | 6.5   | 0   | 0     |        | 933   | 10   | 12.5     |
| Santa Cruz | 304-MOORE-23 | 12:25:00 PM            | 16.5    | 420        |       | 4352  | 0.356 | 7   | 0     |        | 5775  | 10   | 12       |
| Santa Cruz | 304-MOORE-24 | 10:15:00 AM            | 16      | 500        |       | 2359  | 0.106 | 7   | 0     |        | 7270  | 20   | 11       |
| Santa Cruz | 304-MOORE-25 | 11:30:00 AM            | 15.5    | 460        |       | 548   | 0     | 7   | 0     |        | 2046  | 10   | 11.5     |
| Santa Cruz | 304-MOORE-26 | 11:28:00 AM            | 12      | 1300       | 8     | 426   | 0     | 6   | 0     |        | 11199 | 15   | 17       |
| Santa Cruz | 304-NEWYE-11 | 10:00:00 AM            | 13.5    | 700        |       | 857   | 1.311 | 0   | 0     |        | 1785  | 0    | 12       |
| Santa Cruz | 304-ROBSC-21 | 12:00:00 PM            | 15.5    | 500        | 6.7   | 292   | 0     | 7   | 0.073 |        | 14136 | 5    | 12       |
| Santa Cruz | 304-SANLO-21 | 11:55:00 AM            | 17      | 600        | 8     | 749   | 0.458 | 7   | 0     |        | 2046  | 5    | 17       |
| Santa Cruz | 304-SANLO-22 | 10:12:00 AM            | 12      | 14100      | 8.85  | 435   | 0     | 7   | 0     |        | 4106  | 5    | 13.59    |
| Santa Cruz | 304-SANLO-26 | 2:40:00 PM             | 19.5    | 418        | 10.3  | 62    | 0.612 | 7   | 0     |        | 1198  | 122  | 1.66     |
| Santa Cruz | 304-SANLO-27 | 1:12:00 PM             | 20.05   | 490        | 10.88 | 52    | 0.32  | 7   | 0     |        | 839   | 122  | 0.86     |
| Santa Cruz | 304-SANVI-21 | 12:17:00 PM            | 14      | 320        | 9.21  | 5     | 0.05  | 7   | 0.05  |        | 1414  | 5    | 11.5     |
| Santa Cruz | 304-SCOTT-21 | 10:35:00 AM            | 14.8    | 300        | 9.96  | 10    | 0     | 6   | 0     |        | 1223  | 120  | 11.8     |
| Santa Cruz | 304-SCOTT-22 | 10:55:00 AM            | 13.5    | 230        | 9.8   | 10    | 0.024 | 6   | 0     |        | 323   | 120  | 11.2     |
| Santa Cruz | 304-SCOTT-23 | 11:45:00 AM            | 15.89   | 410        | 10.1  | 5     | 0     | 6.5 | 0     |        | 1081  | 120  | 11.6     |
| Santa Cruz | 304-SCOTT-24 | 11:25:00 AM            | 14.6    | 250        | 10.2  | 52    | 0.024 | 6   | 0     |        | 441   | 120  | 11.1     |
| Santa Cruz | 304-SCOTT-25 | 12:00:00 PM            | 12.8    | 330        | 10.1  | 41    | 0     | 6   | 0     |        | 383   | 120  | 13.1     |
| Santa Cruz | 304-SCSD2    | 12:00:00 PM            | 14.5    | 800        | 5.6   | 2987  | 3.44  | 7.5 | 0.05  |        | 17329 | 0    | 16       |

| County     | StationID    | Sample Collection Time | AirTemp  | Conductivi DO | ECOLI | NO3-N | pH     | PO4 | Tcoli | TRANS | TURB | WaterTem |
|------------|--------------|------------------------|----------|---------------|-------|-------|--------|-----|-------|-------|------|----------|
| Santa Cruz | 304-SCSD3    | 10:10:00 AM            | 19       | 600           | 9.5   | 471   | 2.151  | 8   | 0     | 3873  | 0    | 14       |
| Santa Cruz | 304-SCSD4    | 11:05:00 AM            | 14       | 800           | 7.8   | 178   | 2.9    | 8   | 0.05  | 24809 | 0    | 15       |
| Santa Cruz | 304-SOQUE-21 | 10:00:00 AM            | 15       | 0             |       | 145   | 0      | 7   | 0     | 1223  | 120  | 13       |
| Santa Cruz | 304-SOQUE-22 | 12:00:00 PM            | 8        | 2000          |       | 134   | 0      | 7   | 0     | 880   | 50   | 15       |
| Santa Cruz | 304-VALEN-21 | 12:46:00 PM            | 14.5     | 660           | 10    |       | 0.175  | 7.5 | 0.104 |       | 0    | 11.5     |
| Santa Cruz | 304-VALEN-22 | 11:19:00 AM            | 12.5     | 590           | 8     |       | 0.804  | 7.2 | 0.093 |       | 0    | 11.2     |
| Santa Cruz | 304-WADDE-21 | 1:00:00 PM             | 20       | 400           |       | 10    | 0.103  |     |       | 1162  | 0    | 13       |
| Santa Cruz | 304-WILDE-21 | 11:35:00 AM            | 14       | 480           | 8     | 134   | 0.349  | 7   | 0     | 988   | 120  | 10       |
| Santa Cruz | 304-WILDE-22 | 12:00:00 PM            | 14       | 480           | 8     | 97    | 0.356  | 6.5 | 0     | 1314  | 120  | 10       |
| Santa Cruz | 304-ZAYAN-21 | 10:37:00 AM            | 14.5     | 469           | 10.69 | 52    | 0.772  | 7   | 0.11  | 1198  | 122  | 1.27     |
| Santa Cruz | 304-ZAYAN-22 | 12:08:00 PM            | 17       | 606           | 10.5  | 89    | 0.118  | 7   | 0     | 1483  | 122  | 1.47     |
| Santa Cruz | 305-CORRA-21 | 11:50:00 AM            | 13.5     | 374           | 8     | 10    | 5.446  | 7   | 0     | 1785  | 130  | 3        |
| Santa Cruz | 305-CORRA-22 | 12:25:00 PM            | 13       | 257           |       | 249   | 0.083  | 7   | 0     | 5794  | 130  | 14       |
| Santa Cruz | 305-HARKI-21 | 9:52:00 AM             | 13       | 225           | 7     | 496   | 0      | 6.5 | 0.067 | 9208  | 7.1  | 17       |
| Santa Cruz | 305-HARKI-22 | 2:13:00 PM             | 17       | 1100          | 5     | 31    | 8.329  | 7   | 0     | 24196 | 0    | 14       |
| Santa Cruz | 305-HARKI-23 | 11:10:00 AM            | 17       | 165           | 6.5   | 1607  | 0.089  | 7   | 0     | 4884  | 19.6 | 2        |
| Santa Cruz | 305-PAJAR-21 | 10:40:00 AM            | 15       | 1300          | 8     | 295   | 6.037  | 7   | 0     | 1658  | 10   | 16.5     |
| Santa Cruz | 305-STRUV-21 | 12:40:00 PM            | 15.17    | 310           | 7.8   | 487   | 0      | 7   | 0     | 3076  | 10   | 19.5     |
| Santa Cruz | 305-STRUV-22 | 1:48:00 PM             | 21       | 420           | 8.6   | 5     | 0      | 7   | 0.267 | 1918  | 5    | 24       |
| Santa Cruz | 305-WATSO-22 | 1:50:00 PM             | 15       | 1100          | 6     | 20    | 8.331  | 7   | 0     | 24196 | 5    | 15       |
| Santa Cruz | 305-WATSO-23 | 12:05:00 PM            | 17       | 2300          | 8     | 323   | 14.399 | 7   | 0     | 19863 | 20   | 18       |
| Santa Cruz | 305-WSTRU-21 | 12:40:00 PM            | 25       | 510           | 9.4   | 158   | 0      | 7   | 0     | 2400  | 10   | 22       |
| Monterey   | 306-ELKHO-31 | 8:54:00 AM             | 10.2     | 19000         | 6     | 20    | 0.3    | 7.5 | 0.05  | 83    | 96.4 | 15.1     |
| Monterey   | 306-ELKHO-32 | 8:21:00 AM             | 11.4     | 19000         | 3     | 40    | 2.8    | 8   | 0.05  | 1074  | 34.4 | 16.3     |
| Monterey   | 306-ELKHO-33 | 9:31:00 AM             | 11.4     | 19000         | 6     | 20    | 0      | 7.5 | 0.05  | 61    | 43.4 | 14.7     |
| Monterey   | 306-ELKHO-34 | 7:51:00 AM             | 11.3     | 1700          | 8     | 293   | 30.9   | 7.5 | 0.3   | 48391 | 120  | 12.3     |
| Monterey   | 306-MOROC-31 | 10:50:00 AM            | 24       | 5400          | 12    | 1423  | 7.1    | 9   | 0.05  | 34658 | 1    | 18.2     |
| Monterey   | 306-MOROC-32 | 11:20:00 AM            | 19.2     | 19900         | 12    | 20    | 0.05   | 9.5 | 0.3   | 149   | 2    | 23.3     |
| Monterey   | 306-MOROC-33 | 12:00:00 PM            | 21       | 19900         | 12    | 20    | 0.05   | 9   | 0.05  | 20    | 8    | 26.7     |
| Monterey   | 307-CARME-35 | 11:24:00 AM            | 16.5     | 380           | 10    | 125   | 0.05   | 7   | 0.05  | 2039  | 120  | 12       |
| Monterey   | 307-CARME-33 | 11:42:00 AM            | 16.5     | 390           | 9     |       | 0.05   | 7   | 0.05  |       | 120  | 12.5     |
| Monterey   | 307-CARME-36 | 10:30:00 AM            | 19       | 400           | 10    | 20    | 0.05   | 6.5 | 0.05  | 2306  | 120  | 14.5     |
| Monterey   | 307-CARME-37 | 11:23:00 AM            | 17       | 390           | 10    | 20    | 0.05   | 6.5 | 0.05  | 4374  | 120  | 14.5     |
| Monterey   | 307-CARME-38 | 11:53:00 AM            |          |               |       | 83    | 0.05   |     | 0.05  | 2966  |      |          |
| Monterey   | 307-CARME-39 | 10:25:00 AM            | 15.11111 | 1000          | 9     | 346   | 0.05   | 7   | 0.05  | 2792  | 120  | 14.83333 |
| Monterey   | 307-GARZA-31 | 11:13:00 AM            | 22.5     | 270           | 9     | 40    | 0.05   | 6.5 | 0.05  | 1864  | 120  | 12       |
| Monterey   | 307-HATTO-31 | 12:17:00 PM            | 17       | 1400          | 8     | 20    | 0.3    | 6.5 | 0.05  | 845   | 120  | 12       |
| Monterey   | 308-BIGSU-31 | 9:40:00 AM             | 16.3     | 330           | 9.05  | 20    | 0.05   | 7   | 0.05  | 869   | 120  | 12.6     |
| Monterey   | 308-BIGSU-32 | 10:20:00 AM            | 16.8     | 310           | 8.83  | 20    | 0.05   | 7   | 0.05  | 626   | 120  | 11.9     |
| Monterey   | 308-DOUD-31  | 11:00:00 AM            | 15       | 310           | 9     | 125   | 0.4    | 7   | 0.05  | 3077  | 120  | 11       |
| Monterey   | 308-GARRA-31 | 11:30:00 AM            | 17.5     | 280           | 12    | 20    | 0.05   | 6.5 | 0.05  | 1217  | 120  | 11       |
| Monterey   | 308-HOTSP-31 | 12:10:00 PM            | 12.7     | 390           | 9.16  | 20    | 0.05   | 7   | 0.05  | 957   | 120  | 12.8     |
| Monterey   | 308-MALPA-31 | 12:00:00 PM            | 16       | 370           | 8     | 61    | 0.8    | 6.5 | 0.05  | 2269  | 120  | 11       |
| Monterey   | 308-MCWAY-31 | 11:50:00 AM            | 11.5     | 380           | 9.24  | 20    | 0.05   | 7   | 0.05  | 220   | 120  | 11.9     |
| Monterey   | 308-PALOC-31 | 12:00:00 PM            | 13.5     | 500           | 8     | 20    | 0.05   | 7   | 0.05  | 1542  | 120  | 11.5     |
| Monterey   | 308-PARTI-31 | 11:25:00 AM            | 12.7     | 370           | 9.53  | 20    | 0.05   | 7   | 0.05  | 492   | 120  | 11.5     |
| Monterey   | 308-ROCKY-31 | 10:30:00 AM            | 13       | 280           | 8     | 20    | 0.05   | 6.5 | 0.05  | 991   | 120  | 10       |
| Monterey   | 308-SANJO-31 | 11:05:00 AM            | 13.94444 | 400           | 10    | 170   | 0.05   | 7   | 0.05  | 3301  | 120  | 10.61111 |
| Monterey   | 308-SOBER-31 | 11:40:00 AM            | 15.66667 | 400           | 10    | 61    | 0.05   | 7   | 0.05  | 3587  | 120  | 12.05556 |
| Monterey   | 308-SYCAM-31 | 10:50:00 AM            | 15.1     | 380           | 3.75  | 20    | 0.05   | 6.5 | 0.05  | 149   | 120  | 11.5     |
| Monterey   | 309-ALISA-32 | 11:07:00 AM            | 16.8     | 1400          | 5.5   | 2581  | 26.8   | 7.5 | 0.2   | 48392 | 7.8  | 16.6     |
| Monterey   | 309-ASILO-31 | 11:37:00 AM            | 17       | 1780          | 5     | 20    | 0.6    | 6.5 | 0.05  | 9222  | 120  | 13.5     |
| Monterey   | 309-ATASC-41 | 9:27:00 AM             |          |               |       | 63    | 0      |     | 0.02  | 2143  |      |          |
| Monterey   | 309-ATASC-42 | 10:41:00 AM            |          |               |       | 435   | 0      |     | 0.1   | 17329 |      |          |
| Monterey   | 309-CENTR-31 | 11:01:00 AM            | 18       | 1670          | 7     | 2034  | 1.9    | 6.5 | 0.05  | 48392 | 120  | 13.5     |
| Monterey   | 309-DOLPH-31 | 11:26:00 AM            | 13.9     | 1990          | 7     | 192   | 1.1    | 7.5 | 0.05  | 6511  | 120  | 11       |
| Monterey   | 309-GABIL-31 | 10:34:00 AM            | 13       | 1100          | 7     | 342   | 23.5   | 7   | 0.6   | 13733 | 120  | 17       |
| Monterey   | 309-GRAVE-41 | 10:04:00 AM            |          |               |       | 63    | 0      |     | 0.02  | 12997 |      |          |
| Monterey   | 309-LIBRA-31 | 10:40:00 AM            | 13.2     | 1990          | 9     | 1366  | 0.05   | 7   | 0.05  | 24067 | 120  | 11.9     |
| Monterey   | 309-MAJOR-31 | 10:05:00 AM            | 15.7     | 1420          | 7     | 270   | 0.05   | 7   | 0.05  | 5819  | 120  | 11.5     |
| Monterey   | 309-NATIV-31 | 11:52:00 AM            | 22       | 1030          | 5     | 2     | 10.5   | 7   | 0.05  | 20    | 120  | 13       |
| Monterey   | 309-PASOR-41 | 9:15:00 AM             |          |               |       | 110   | 0      |     | 0.04  | 1860  |      |          |
| Monterey   | 309-RECDI-31 | 10:25:00 AM            | 16.8     | 1600          | 6     | 1666  | 23.9   | 7.5 | 0.05  | 48392 | 38.4 | 15.9     |
| Monterey   | 309-RECDI-33 | 11:25:00 AM            | 23.3     | 1500          | 7     | 1301  | 42.7   | 7.5 | 0.7   | 48392 | 11.8 | 16.8     |
| Monterey   | 309-RECDI-34 | 11:58:00 AM            | 18.4     | 1300          | 11    | 538   | 32.3   | 7.5 | 0.4   | 48392 | 15.8 | 19       |
| Monterey   | 309-RECDI-35 | 10:25:00 AM            | 18.8     | 1000          | 9     | 610   | 27.7   | 7.5 | 0.6   | 48392 | 9.2  | 17.1     |
| Monterey   | 309-RINCO-41 | 11:21:00 AM            | 25       |               | 5.5   | 238   | 0.05   | 7.5 | 0.03  | 2247  |      | 17.5     |
| Monterey   | 309-SALIN-31 | 10:54:00 AM            |          | 1990          | 12    | 20    | 33.7   | 8.5 | 0.05  | 3587  | 25   |          |
| Monterey   | 309-SALIN-32 | 10:00:00 AM            | 15.6     | 1410          | 9     | 83    | 21.9   | 7.5 | 0.05  | 48382 | 89   | 15.9     |
| Monterey   | 309-SALIN-33 | 11:50:00 AM            | 18.5     | 500           | 10    | 82    | 1.7    | 7   | 0.05  | 3744  | 44.6 | 16.7     |
| Monterey   | 309-SALIN-44 | 8:46:00 AM             |          |               |       | 448   | 0.1    |     | 0.07  | 540   |      |          |
| Monterey   | 309-SALIN-45 | 10:50:00 AM            | 22       |               | 5     | 185   | 0.05   | 7   | 0     | 5475  |      | 17.5     |
| Monterey   | 309-SALIN-46 | 11:35:00 AM            |          |               |       | 3609  | 0      |     | 0.23  | 19863 |      |          |
| Monterey   | 309-SALIN-47 | 10:40:00 AM            |          |               |       | 122   | 0      |     | 0.14  | 5475  |      |          |

| County          | StationID    | Sample Collection Time | AirTemp | Conductivi | DO    | ECOLI | NO3-N | pH | PO4 | Tcoli | TRANS  | TURB | WaterTem |
|-----------------|--------------|------------------------|---------|------------|-------|-------|-------|----|-----|-------|--------|------|----------|
| Monterey        | 309-SMARG-41 | 9:05:00 AM             | 18      | 820        | 8     | 216   | 0.05  |    | 7   | 0.01  | 2613   |      | 14.5     |
| Monterey        | 309-SRITA-32 | 11:15:00 AM            |         | 800        | 8.54  | 61314 | 7.7   |    | 7   | 0.05  | 241960 | 1.4  | 18       |
| Monterey        | 309-SRITA-33 | 10:25:00 AM            | 15.6    | 700        | 8.72  | 8803  | 8.5   |    | 7.5 | 0.05  | 241960 | 1    | 18.2     |
| Monterey        | 309-SRITA-34 | 11:40:00 AM            |         | 700        | 9.17  | 7328  | 2.2   |    | 7.5 | 0.05  | 241960 | 3.2  | 24.1     |
| Monterey        | 309-SRITA-35 | 12:10:00 PM            |         | 800        | 11.52 | 5381  | 3     |    | 8   | 0.05  | 68667  | 5    | 26.5     |
| Monterey        | 309-TEMBL-31 | 10:15:00 AM            | 20.2    | 3000       | 7     | 1570  | 42.1  |    | 7.5 | 0.3   | 48392  | 9    | 15.4     |
| Monterey        | 309-TEMBL-32 | 10:56:00 AM            | 25.6    | 2400       | 7     | 218   | 25.4  |    | 7.5 | 0.05  | 48392  | 53.5 | 17       |
| Monterey        | 309-TEMBL-33 | 10:36:00 AM            | 24.5    | 2100       | 9     | 378   | 42.1  |    |     | 0.4   | 48392  | 12.3 | 16.4     |
| Monterey        | 309-TROUT-41 | 10:21:00 AM            | 16      |            | 7.5   | 441   | 0.05  |    | 7   | 0.29  | 2046   |      | 12.5     |
| Monterey        | 309-UPPER-31 | 11:15:00 AM            | 18      | 1640       | 9     | 10950 | 65.7  |    | 7   | 0.05  | 48392  | 16   | 17       |
| Monterey        | 309-VETER-31 | 10:18:00 AM            | 18.5    | 1990       | 4.5   | 20    | 0.05  |    | 7   | 0.05  | 3300   | 120  | 11.5     |
| Monterey        | 309-YERBA-41 | 9:50:00 AM             | 17      | 1150       | 4     | 1250  | 0.05  |    | 7   | 0.15  | 4352   |      | 14       |
| San Luis Opispo | 310-ARROY-41 | 10:25:00 AM            | 12.5    | 940        | 9.4   | 359   | 0.05  |    | 7.5 | 0.02  | 4360   | 120  | 14       |
| San Luis Opispo | 310-ARROY-42 |                        | 12      | 520        | 8.1   |       | 0.05  |    | 7   | 0.05  |        | 128  | 15       |
| San Luis Opispo | 310-CARPO-41 | 8:45:00 AM             | 13      | 450        | 8.6   | 10    | 0.05  |    | 7   | 0     | 598    | 120  | 14       |
| San Luis Opispo | 310-DAL-41   | 8:15:00 AM             |         | 847        | 7.02  | 1210  | 0.05  |    | 7.5 | 0.05  | 6488   |      | 0.6      |
| San Luis Opispo | 310-LAGUN-41 |                        | 12      | 1050       | 8     | 327   | 0.05  |    | 7.5 | 0.02  | 1935   | 81   | 14       |
| San Luis Opispo | 310-PENN-41  | 10:10:00 AM            |         | 773        | 8.68  | 323   | 0.05  |    | 7.5 | 0.06  | 2755   |      | 9.99     |
| San Luis Opispo | 310-PICOC-41 |                        | 20      | 930        | 7.8   | 20    | 0.05  |    | 7   | 0     | 2014   | 120  | 15       |
| San Luis Opispo | 310-SANSI-41 | 8:23:00 AM             | 11.5    | 1180       | 6     | 211   | 7.6   |    | 7   | 0.46  | 6867   | 120  | 12       |
| San Luis Opispo | 310-SANTA-41 | 10:22:00 AM            | 15      | 1060       |       | 110   | 0.05  |    | 7.5 | 0.01  | 7270   | 120  | 14.5     |
| San Luis Opispo | 310-SANTA-42 | 9:29:00 AM             | 14.5    | 10100      | 8.2   | 462   | 0.3   |    | 7.5 | 0.02  | 1539   | 120  | 13       |
| San Luis Opispo | 310-SBE-41   | 1:18:00 PM             |         | 952        | 11.88 | 1153  | 0.6   |    | 7.5 | 0.15  | 3654   |      | 0.79     |
| San Luis Opispo | 310-SYB-41   | 10:15:00 AM            |         | 11890      | 4.8   | 97    | 11    |    | 7.5 | 0.09  | 2909   |      | 7.4      |
| San Luis Opispo | 310-UCF-41   | 12:55:00 PM            |         | 989        | 13.23 | 41    | 1.4   |    | 7   | 0.5   | 1793   |      | 0.92     |