

# City of Newport Beach

## Water Quality/Coastal Tidelands Committee Minutes

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**Date:** November 14, 2013

**Time:** 3:00 p.m.

**Location:** Newport Coast Conference Room, 2<sup>nd</sup> Floor, Bay E

### 1. Welcome/Self Introductions

**Committee Members present:**

Chairwoman/Council Member Nancy Gardner

Dennis Baker

Carl Cassidy

Louis Denger

Fred Galluccio

Laird Hayes

Mike Henn/Council Member

Tom Houston

George Robertson

**Guests present:**

Jack Skinner, SPON

Jim Mosher, resident

Monica Mazur, resident

Ray Heimstra, Orange County Coast Keepers

Jeff Coffman, Clean Technology

George Drayton, resident

Kathy Kort, Resident

**Staff present:**

John Kappeler, Water Quality Manager

Shari Rooks, Public Works Specialist

David Webb, Director of Public Works

Pat Thomas, Deputy Director of Public Works/City Engineer

The agenda for the Water Quality/Coastal Tidelands Committee was posted at 11:00 am on November 5, 2013, in the binder located in the entrance of the Council Chambers at 100 Civic Center Drive.

### 2. Approval of Previous Meeting's Minutes

The minutes for September 12, 2013, meeting were approved with a minor correction to bullet point 5 of Item b., under New Business stating the amount of copper in the bay was reduced by 72.78 lbs. per year.

### 3. Old Business

#### a. Bay and Ocean Bacteriological Test Results

**Monica Mazur** reviewed recent water quality test results within Newport Bay and along the ocean shoreline.

- Dramatic improvement at the Arches Bridge once again, possibly because the sample is being taken from a "better" place.

**b. Committee Goals and Priority Update**

**John Kappeler** provided the Committee with a review and discussion regarding enforcement of street sweeping and catch basin cleaning. (See attached PowerPoint Presentation). The Committee's questions were:

1. *Should the City require street sweeping and catch basin cleaning in private communities?*
  2. *If the Committee were to recommend that, how would we implement a program?*
- Municipal Operations Department (MOD) sweeps all public streets, alleys, oceanfront boardwalks and pier parking lots.
  - MOD cleans 100% of our catch basins and V-ditches annually even though our NPDES permit only requires we clean 80%.
  - Testing has proven that street sweeping removes biofilm.
  - There are 400 miles of streets and alleys in the City and of that 400, 120 are private and belong to 100 different Home Owners Associations (HOAs).
  - We could implement the program using voluntary compliance, the attorney's office has indicated there is a Municipal Code section that does require private drains to get a permit and it could be a condition on that permit. We could amend the Municipal Code to make cleaning a requirement. We could also ask HOAs to submit a Water Quality Management Plan similar to what Rancho Santa Margarita and Aliso Viejo have done and that plan would include street sweeping.
  - Street sweeping done correctly reduces biofilm by 85% for a period of 4 to 5 days before it reoccurs
  - **Tom Houston** asked if all City streets that are swept are posted for parking enforcement on street sweeping days. Not all streets are posted.
  - **Ray Heimstra** suggested that if there are specific areas where biofilm occurs in low areas that those specific areas could be identified and specifically targeted for extra sweeping. He also stated that **Orange County Coast Keepers** would fully support the City to develop the science and ask for a natural source exclusion.
  - **Dennis Baker** suggested that if it was determined that areas required sweeping street sweeping/storm drain cleaning we could consider requiring HOAs to get a mini-discharge permit.
  - **Jeff Coffman** asked if the City had considered installing filter cartridges in storm drains and **John Kappeler** told him that the City did install 200 on the peninsula on a test basis and samples taken before and after the installation didn't indicate that they worked very well, and required considerable maintenance so the City is no longer using filters. John said we do have catch basin screens on 450 catch basins in the city.
  - **Chair Gardner** suggested that rather than attempt to try to summarize the committee's comments and formulate a recommendation to Council that would authorize staff to continue to research and gather information to help establish a policy addressing the sweeping of public and private streets that are not currently being swept as well as the mandatory cleaning of private catch basins and the costs involved it would be better if she and **Mike Henn** addressed it in a study session.
  - **Dennis Baker** asked if it would be possible to use the leverage of our NPDES permit with the County to require HOAs as a discharger into our public system to clean their private catch basins.

**ACTION:** **John Kappeler** to find out what it costs MOD to maintain and empty the CDS units, trash skimmers and debris booms, etc.

**ACTION:** **John Kappeler** to find out how many of the 120 miles of private streets and alleys are not currently being swept so the Committee could know the net number not being swept and the cost per mile involved is before making a decision regarding voluntary or mandated compliance.

**ACTION:** **Chair Gardner** suggested the topic of storm drain filter cartridges be considered for a future agenda presentation.

**ACTION:** **Chair Gardner** will ask the City Attorney if the City could require private catch basins to be cleaned as part of our NPDES permit with the County.

c. **Dr. Fred Galluccio** discussed the adoption of a fracking free city policy.

**ACTION:** **Chair Gardner** will get the information from the current Request for Proposal (RFP) to see if fracking is even being considered for our oil fields.

#### 4. New Business

a. **Wanda Cross**, from the Santa Ana Regional Water Quality Board was unable to attend this month's meeting to discuss natural source exclusion and the Arches Drain monitoring/sampling program and the fecal coli TMDL and requested to be put on the January 9, 2013, agenda.

#### 5. Public Comments on Non-Agenda Items

- **Ray Heimstra** gave the Committee a brief update on the decision of the Coastal Commission to continue item the Poseidon Desalination Project in Huntington Beach and place it on a future agenda.
- **Chair Gardner** informed the Committee that the City has been approached by Vector Control to fill in and eliminate the pond in Big Canyon with the Brazilian Pepper Trees are. This issue will be presented next week at the Newport Bay Executive Committee.

#### 6. Topics for Future Agendas

- (a) Bacteriological Dry-Weather Runoff Gutter Study (Phase III)
- (b) Prop 84 ASBS Grant Program
- (c) Big Canyon Project
- (d) Rhine Channel Project Wrap Up
- (e) Senate Bill – SB 1447
- (f) Marine Protected Areas (MPAs)
- (g) Eelgrass Program
- (h) Trash Project for Storm Drains
- (i) Harbor Commission Copper Report
- (j) Orange County coastal Regional Sediment Management Plan
- (k) Fracking Free City
- (l) Adopting a Natural Source Exclusion

**Set Next Meeting Date**

The next meeting date was set for December 12, 2013, at 3 PM in the **Newport Coast Conference Room, Bay E, 2<sup>nd</sup> Floor.**

**7. Adjournment**

The meeting was adjourned at 4:12 pm.

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Chairwoman / Nancy Gardner

Health Care Agency / Environmental Health Newport Bay Bacteriological Monitoring Program  
Total Coliform (TC), Fecal Coliform, Enterococcus (ENT) Colony Forming Units / 100 ml Sample

STATION	Location Description		7/8/13	7/15/13	7/22/13	7/29/13	8/5/13	8/12/13	8/19/13	8/26/13	9/3/13	9/9/13	9/16/13	9/23/13	9/30/13	10/7/13	10/15/13	10/21/13	10/30/13	11/4/13	11/12/13	
<b>NEWPORT BAY (Lower Bay)</b>																						
BNB09	43rd Street Beach	TC	350	<10	>110	10	>80	>460	>140	10	>800	40	30	<10	50	20	>230	70	50	10	20	
		FC	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	<10	<10	<10
		ENT	<2	<2	10	<2	2	20	10	<2	10	20	4	<2	10	8	10	<2	6	10	4	4
BNB10	38th Street Beach	TC	>900	<10	100	10	>290	>240	120	110	>270	50	7400	40	20	>60	80	10	>1850	50	10	
		FC	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	140	<10	<10	<10	<10	30	<10	250	<10	<10
		ENT	<2	<2	54	<2	10	20	4	10	8	4	279	<2	2	10	36	2	76	20	2	2
BNB11	33rd Street Channel	TC	>700	10	30	20	>750	>350	80	10	>880	10	>1660	10	20	40	60	<10	70	20	>5600	
		FC	80	<10	<10	<10	<10	30	10	<10	<10	60	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
		ENT	2000	<2	4	2	160	20	4	<2	34	2	100	<2	<2	2	2	2	2	10	<2	600
BNB32	Lido Yacht Club Beach	TC	<10	<10	30	<10	60	30	40	<10	>10	30	10	>10	>10	>10	>80	>10	20	<10	10	
		FC	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
		ENT	4	<2	10	<2	8	<2	4	2	2	<2	<2	2	<2	2	2	2	100	4	2	<2
BNB07	Via Genoa Beach	TC	<10	<10	<10	<10	>70	20	10	390	40	60	<10	<10	10	10	160	<10	20	20	>380	
		FC	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	30	10
		ENT	<2	<2	<2	<2	2	<2	<2	2	2	20	4	<2	<2	<2	<2	<2	2	4	4	8
BNB35	Newport Blvd. Bridge	TC	>1310	370	>350	350	330	>470	460	3200	1000	4600	670	5400	60	40	>430	60	>650	320	>940	
		FC	<10	<10	10	<10	10	80	20	300	>10	60	<10	20	<10	<10	50	<10	<10	10	<10	
		ENT	20	<2	26	8	2	74	22	100	4	76	<2	2	<2	<2	48	2	>32	2	92	
BNB12	Rhine Channel	TC	<10	40	>140	20	30	80	50	20	70	20	10	10	60	150	60	10	20	560	10	
		FC	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
		ENT	<2	<2	<2	<2	2	2	2	<2	2	2	<2	<2	<2	<2	8	<2	<2	<2	4	8
BNB14	19th Street Beach	TC	30	30	30	10	<10	>380	220	>10	330	50	95	<10	30	<10	70	40	<10	100	>130	
		FC	<10	<10	<10	<10	<10	<10	<10	<10	<10	30	<10	<10	<10	<10	<10	<10	<10	<10	30	<10
		ENT	<2	<2	<2	<2	<2	6	<2	<2	10	4	<2	<2	20	<2	<2	<2	<2	<2	52	20
BNB15	15th Street Beach	TC	10	10	>10	10	20	>30	10	<10	>40	10	20	<10	10	10	95	<10	80	30	60	
		FC	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
		ENT	<2	<2	<2	2	4	<2	<2	4	2	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
BNB17	10th Street Beach	TC	<10	<10	10	<10	200	<10	20	10	<10	10	20	110	10	20	120	<10	30	40	>380	
		FC	<10	10	<10	10	60	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	30	<10	<10	
		ENT	2	<2	<2	<2	2	2	<2	<2	2	2	4	10	<2	<2	2	<2	<2	2	70	
BNB18	Alvarado/ Bay Isle Beach	TC	<10	<10	60	10	20	20	110	10	30	95	10	40	20	<10	<10	10	20	50	<10	
		FC	<10	<10	<10	<10	<10	<10	<10	70	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
		ENT	<2	<2	2	10	<2	10	52	2	<2	4	100	<2	2	<2	4	4	<2	4	4	
BNB22	N Street Beach	TC	<10	<10	<10	10	<10	20	<10	10	<10	<10	10	<10	20	10	<10	20	10	<10	<10	
		FC	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
		ENT	<2	4	10	<2	4	2	<2	<2	2	<2	<2	<2	2	2	<2	2	<2	<2	<2	
BNB31	Garnet Avenue Beach	TC	450	30	>10	10	50	>200	30	10	30	10	20	>30	20	>10	>390	<200	>40	70	10	
		FC	30	20	<10	<10	20	20	10	<10	10	<10	<10	<10	<10	10	20	<10	10	<10	<10	
		ENT	6	6	20	<2	4	4	6	6	8	4	<2	<2	140	2	66	8	4	20	2	
BNB03	Ruby Avenue Beach	TC	60	<10	50	10	10	30	50	100	50	60	20	80	20	<10	190	20	100	80	30	
		FC	20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
		ENT	2	2	4	4	6	2	<2	<2	20	<2	<2	2	2	<2	<2	<2	<2	62	2	
BNB20	Sapphire Avenue Beach	TC	>10	<10	>80	<10	>10	10	50	120	>10	>10	20	40	>10	<10	20	20	360	10	NS	
		FC	<10	<10	<10	<10	<10	<10	<10	20	<10	<10	<10	<10	<10	<10	<10	<10	80	<10	NS	
		ENT	<2	2	150	4	4	<2	20	4	<2	2	<2	10	6	2	10	48	4	24	NS	
BNB34	Grand Canal	TC	380	600	270	1110	110	620	50	980	290	690	30	70	40	50	60	40	>360	20	40	
		FC	20	190	120	>670	60	250	10	70	50	510	<10	30	<10	<10	<10	<10	20	<10	10	
		ENT	10	42	50	38	20	86	<2	26	10	10	<2	8	2	<2	6	4	<2	2	8	
BNB21	Abalone Avenue Beach	TC	80	10	>300	620	95	380	80	50	>50	40	40	>310	120	10	120	<10	>490	20	270	
		FC	30	<10	30	<10	20	310	30	<10	30	<10	10	210	<10	<10	40	<10	10	<10	80	
		ENT	6	2	2	46	24	77	4	<2	<2	<2	<2	<2	2	<2	2	<2	4	10	4	
BNB01	Park Avenue Beach	TC	30	<10	<10	10	70	95	<10	>110	150	20	30	<10	30	10	110	80	>320	20	30	
		FC	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	10	<10	10	
		ENT	<2	<2	10	<2	10	8	<2	6	20	2	2	<2	4	2	4	10	2	2	22	
BNB02	Onyx Avenue Beach	TC	20	20	80	70	95	20	10	110	60	20	20	80	20	160	10	220	300	10	10	
		FC	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	
		ENT	6	4	8	2	2	6	4	<2	10	2	<2	<2	4	<2	4	<2	8	100	10	
BNB29	Promontory Point Channel	TC	<10	<10	10	<10	<10	<10	10	<10	10	<10	<10	<10	<10	20	10	<10	10	50	<10	
		FC	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
		ENT	<2	<2	<2	4	<2	<2	<2	<2	<2	<2	<2	<2	<2	4	<2	2	<2	<2	2	
BNB33	Bayside Drive Beach	TC	>30	100	>250	30	>20	>660	>430	20	>40	>120	50	200	>60	>10	>360	95	110	>40	NS	
		FC	10	10	<10	<10	<10	80	20	<10	<10	<10										

Health Care Agency / Environmental Health Newp Bay Bacteriological Monitoring Program  
 Total Coliform (TC), Fecal Coliform (FC), Enterococcus (ENT) Colony Forming Units / 100 ml Sample

STATION	Location Description	7/15/13	7/22/13	7/29/13	8/5/13	8/12/13	8/19/13	8/26/13	9/3/13	9/9/13	9/16/13	9/23/13	9/30/13	10/7/13	10/15/13	10/21/13	10/30/13	11/4/13	11/12/13
<b>NEWPORT BAY (Upper Bay)</b>																			
BNB24	Newport Dunes - Middle	TC	20	95	10	30	80	50	730	110	70	1120	160	<10	>440	40	>260	110	100
		FC	<10	<10	<10	10	<10	<10	<10	20	<10	<10	20	<10	60	<10	10	<10	<10
		ENT	<2	4	2	<2	6	<2	<2	2	10	4	4	<2	10	2	<2	<2	6
BNB24	Newport Dunes - West	TC	<10	450	<10	>10	40	80	>660	160	120	170	>1470	>130	>530	30	>770	110	30
		FC	<10	100	<10	<10	<10	<10	120	<10	<10	30	260	<10	<10	<10	<10	20	10
		ENT	<2	2	2	2	6	4	2	10	6	10	96	10	<2	2	6	2	4
BNB24	Newport Dunes - East	TC	<10	70	50	>390	>630	>220	95	>10	>80	>28000	40	60	>370	30	>370	70	NS
		FC	<10	<10	10	10	30	<10	10	<10	10	6000	<10	10	20	20	100	<10	NS
		ENT	6	2	2	800	48	28	2	10	234	2	10	2	32	4	84	10	NS
BNB24	Newport Dunes - North	TC	30	30	20	>650	>80	150	<10	>160	20	30	>30	20	>470	50	>370	10	20
		FC	<10	<10	<10	<10	80	<10	30	<10	10	<10	20	<10	<10	<10	20	<10	<10
		ENT	<2	4	8	20	8	10	<2	<2	6	4	8	<2	8	6	2	2	2
BNB25	Vaughn's Launch	TC	NS	NS	NS	NS	NS	<10	NS	>20	NS	10	NS	10	>360	<200	>10	>30	>10
		FC	NS	NS	NS	NS	<10	<10	NS	<10	NS	<10	NS	<10	10	10	<10	<10	<10
		ENT	NS	NS	NS	NS	2	NS	<2	NS	4	NS	NS	6	<2	<2	10	20	28
BNB26	Ski Zone	TC	NS	NS	NS	NS	NS	NS	<200	NS	NS	NS	NS	NS	>7400	NS	NS	>100	NS
		FC	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	590	NS	NS	10	NS
		ENT	NS	NS	NS	NS	NS	NS	2	NS	NS	NS	NS	NS	600	NS	NS	42	NS
BNB28	North Star Beach	TC	10	10	10	>20	95	20	<10	10	<10	10	50	>10	>470	<10	30	60	NS
		FC	<10	<10	<10	<10	<10	<10	<10	<10	10	10	<10	<10	30	<10	<10	20	NS
		ENT	<2	<2	6	2	2	4	2	80	6	2	2	4	10	6	10	8	NS
BNB30	De Anza	TC	10	20	<10	20	10	20	10	20	10	10	10	<10	60	10	10	>1280	<10
		FC	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	30	<10	<10	<10	260	<10
		ENT	2	4	4	2	4	<2	4	6	<2	4	<2	6	<2	6	<2	271	2
BNB05	Bayshore Beach	TC	<10	>110	<10	40	50	10	80	30	20	10	60	10	110	20	20	80	20
		FC	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
		ENT	2	24	<2	6	2	2	2	6	<2	6	<2	4	<2	4	<2	4	<2
<b>NEWPORT BAY TRIBUTARIES</b>																			
CNBCD	San Diego Creek - Campus Dr.	TC	>1200	1000	7400	>700	>400	>1000	>500	>90	100	>90	>120	>100	>47000	>5300	>90000	>3200	>390
		FC	60	20	<10	10	20	20	40	10	<10	10	20	20	>580	>95	910	50	50
		ENT	20	76	>130	74	61	20	46	22	24	20	36	26	64	54	380	22	42
CNBSA	Santa Ana Delhi Channel	TC	>7800	29000	48000	>50	>6400	>2700	>2600	>680	5000	>3400	>4800	>3900	>58000	>4300	>4800	>3000	>4800
		FC	850	590	230	80	300	150	600	190	30	190	460	160	10	140000	140	160	440
		ENT	10	218	96	36	2400	224	1000	150	54	>251	160	1000	180	1000	120	281	255
CNBBC	Big Canyon Creek	TC	>540	>1610	760	>520	>2600	>7600	700	>4000	>760	4000	NS	NS	>950	>960	>2800	640	>490
		FC	10	20	<10	<10	<10	30	20	100	20	100	NS	NS	50	140	10	100	30
		ENT	380	1000	>150	68	96	46	96	160	180	48	NS	NS	26	120	70	1000	110
CNBND	Backbay Drive Pipe	TC	NS	NS	NS	NS	NS	NS	NS	NS	NS	>15000	>40000	>54000	>470	>5600	>22600	>1220	>1520
		FC	NS	NS	NS	NS	NS	NS	NS	NS	NS	1840	26800	1170	730	60	>660	>490	80
		ENT	NS	NS	NS	NS	NS	NS	NS	NS	NS	3400	18000	8000	1000	100	600	1000	277
<b>NEWPORT SLOUGH</b>																			
BNS01	Lancaster Street & 61st Street	TC	20	>10	>40	60	10	>370	<10	>150	>130	10	60	80	>120	40	120	NS	NS
		FC	<10	<10	10	<10	<10	<10	<10	<10	20	<10	<10	10	<10	<10	<10	<10	NS
		ENT	20	2	<2	<2	10	<2	2	<2	10	10	22	4	8	<2	52	NS	NS
BNS02	Lancaster Street & Canal Street	TC	<10	>50	>130	20	30	20	<10	>40	<10	<10	20	30	50	50	>320	NS	NS
		FC	<10	10	130	<10	<10	<10	<10	<10	<10	<10	<10	<10	30	<10	<10	<10	NS
		ENT	<2	<2	6	2	24	10	2	<2	6200	22	20	20	72	52	10	86	NS

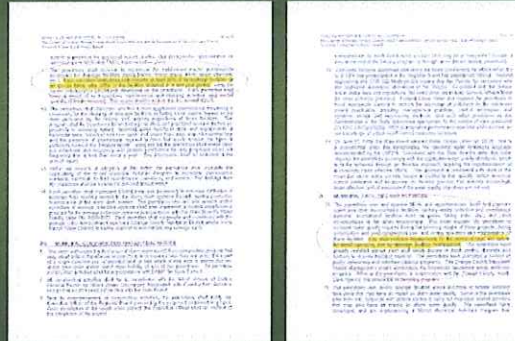


# Street Sweeping & Catch Basin Cleaning

Water Quality / Coastal Tidelands Committee

John Kappeler  
City of Newport Beach  
November 14<sup>th</sup>, 2013

## NPDES Permit



## Questions

- Should the City of Newport Beach require street sweeping and catch basin cleaning for private streets and catch basins (storm drain systems)?
- What are the various ways to require street sweeping and catch basin cleaning?

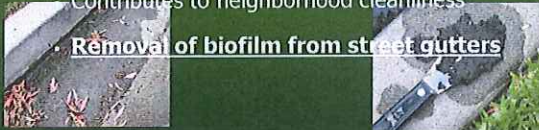


## Reasons For Street Sweeping

- The collection of litter, sediment and landscape debris
- Prevents trash from entering the catch basin, storm drain and the bay

Contributes to neighborhood cleanliness

Removal of biofilm from street gutters



## Background

- The City of Newport Beach sweeps public streets (weekly), alleys (2x/month) and other areas, i.e. oceanfront sidewalk, parking lots, etc...
- The City of Newport Beach inspects and cleans all (100%) catch basins and v-ditches annually
- Catch basin cleaning is required per our NPDES Permit and street sweeping is referenced, but not specifically required.

## Public and Private Streets





## Private Streets & HOAs



• 100 HOAs with private streets

## Additional Trash & Debris BMPs

- CDS Units
- Catch Basin Screens
- Trash Booms
- Marina Trash Skimmers
- Beach Cleanups



## Private Streets & HOAs



## CDS Units



## Possible Ways to Require Street Sweeping & Catch Basin Cleaning

- Voluntary Compliance and Education
- Require each HOA to obtain a storm drain Permit (MC 14.36.070)
- Amend the Municipal Code
- Require each HOA to submit a Water Quality Management Plan (WQMP)

## Catch Basin Screens



## Trash Booms



*Thank You*



## Marina Trash Skimmers



## Beach Cleanups

