RMP Communications Strategy

Elements (in order of importance)

- 1. Pulse
- 2. Estuary News articles
- 3. RMP Web Site
- 4. RMP Update
- 5. Technical Reports
- 6. Journal Publications
- 7. Annual Meeting
- 8. Email Updates NEW
- SFEI Newsletter NEW
- 10. Social Media NEW
- 11. Annual Monitoring Results
- 12. Invited Presentations
- 13. Workshops
- 14. Fact Sheets
- 15. Seminars/Webinars
- 16. Estuary Portal
- 17. State of the Estuary Report

Pulse

- Recent activity
 - □ CECs in the Bay
 - Distribution
 - 3000 printed 1200 left
 - Downloads xx
- Next steps
 - □ Next edition in 2015
 - Potential topics
 - XX
- Possible improvements
 - Make it an interactive e-book not cheap though



Estuary News

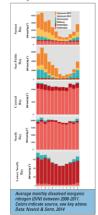
- Recent activity
 - Bay Primed for Pea Soup?
 - Distribution
 - 3000 printed
 - Web: Incomplete info -58 hits on article 3/15-4/30
- Next steps and possible improvements
 - Proposed lineup of topics
 - June 2014: Small Tributaries Integrated Report
 - Sep 2014: PCBs
 - Dec 2014: CECs
 - Mar 2015: Nutrients
 - Better promotion through RMP email and web page

POLLUTION

Bay Primed for Pea Soup?

Nutrients could be the next big problem for San Francisco Bay – or make that in the Bay, because they realready here at levels high enough to have caused trouble elsewhere. But despite its excess nitrogen and phosphorus, the Bay has been free of harmful algal blooms and oxygen-depleted dead zones for decades. Indeed, we been so sure of this immunity to nutrients that most wastewater treatment plants don't even have to remove ment plants don't even have to remove ment plants don't even have to remove ment plants don't even have to remove the contrients are now alterting us, however, to get ready in case there's worse to come.

The tricky part is the Bay's respons o nutrients is changing, but it's not yet lear how best to manage them," says Javid Senn, a scientist at the San Franisco Estuary Institute (SFEI). Another thallenge is that because nutrients



hown't been troublesome here, we have a lot to learn about them in the Bay. I'll will take a regional collaborative effort to understand how the six changing and what regulatory actions totake," says Naomi Feger, Flanning Chief of the S.F. Bay Regional Water Quality Control Board. To accomplish this, the Board drafted a Rigional Wester of the Searn of th

The financial stakes for getting as handle on nutrients in the Bay are high the state of the nutrient some ronder in the Bay the since 1970s. "Senn says. Most of the nutrients come from the 41 wastewater treatment plants which discharge into the Bay, and retrofitting them could cost billions of dollars. In the North Bay, nutrients also come from agriculture and wastewater in the Central Valley and the Delta.

Why haven't all those nutrients pouring into the Bay caused problems? The answer — based on nearly four decades of US Geological Survey work on the Bay's large swings in phytoplankton abundance — is a combination of three things: suspended sediment, tidal mixing, and clams.

sediment, tidal mixing, and clams. Alga needs light to grow but Bay water contains so much sediment that it's murky. "It's like overfettilizing a garden and then covering it with a terry," Sem says. The nutrents are terry, sem says. The nutrents are sunlight, is missing." In addition, algoe often grows be tim estuaries when the entering fresh water floats across the surface. This creates a top layer that concentrates phytoplankton and Keep She the surface. This creates a top layer that concentrates phytoplankton and Keep She the surface. This creates a top layer that concentrates phytoplankton and keep she was a surface. The surface is a surface. This creates a top layer that concentrates phytoplankton and concentrate special properties of the surface of the su



ESTUARY MARCH 2014

IP water quality sensor playing host t mals called hydroids. Photo by Emily wick. SEFI

the three factors that increase resistance to algal growth, "Senn says. Suspended sediment is down by half since the 1990s in the North Bay and South Bay, letting the algae-boosting light shine twice as deep into the water. This trend toward clearer water this expected to continue because excess sediment from the Gold Rush is thought to have finalty washed ways.

Another change is that clam populations are down sharply in the South Bay, coinciding with a three-fold algae hike in those waters since the 1970s. The drop in clams and other bottomdivelling algae eathers may be due to a rise in predators like fish and Dungeness crab, which turn is linked as shift in large-scale, long-term ocean patterns called the Pacific Decadal Oscillation.

So far there's less concern about the amount of algae than about the pace of change. 'Algae levels were low before so it's not like the Bay is pea green now," Senn says. 'But it changed at a fast rate."

changed at a test race.

Other signs of cracks in the Bay's resilience to nutrients include less dissolved oxygen in places where algae is highest. Microbes that eat dead agae also use oxygen, so algal blooms can lead to dead zones in the water. Also troubling was a rare red ide or undestrable algal bloom in the fall of 2004. In addition, small amounts of algae that cause took blooms elsewhere recent monitoring has also detected boxins from harmful algae in the Bay. However, Sen natresses that we can't however. Sen natresses that we can't

tell if this is related to nutrients — or if it's even a change — because this monitoring has only been underway for a few years.

Besides affecting the quantity of

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Indeed, more research is needed on just about all aspects of nutrients in the Bay. Right now, we don't know much beyond the facts that algae are rising in parts of the Bay, low levels of potentially harmful algae are common, and algal toxins are detectable. In fact, we don't heave know if nutrients are behind what we see. We then the proposed of the property of the proposed of the property of th

That's where the expert team he coordinates comes in. Their report, coordinates comes in. Their report, coordinates comes in. Their report, when we have the construction of their constructions and their constructions of their con

The first step to finding answers is a Bay-wide monitoring program aimed at nutrient pollution. Current monitoring is spotty for key measure like nutrients, kinds of algae, algal toxins, dissolved oxygen, and clams, and also lacks sustainable funding.

Besides being costly, stemming the flow of nutrients into the Bay could take decades. Says Senn, "If problems are on the horizon, starting before they are widely entrenched will give us more flexibility."

"We're taking this seriously," adds Feger, whose agency already has a draft regional permit addressing



Raising the Dregs

San Francisco Bay's perennial probem with abandoned vessels cluttering and potentially polluting the waters jot some uplifting news—literally and iguratively— this winter.

Daktane from Mameda, stylestandomment situation had become particularly serious in recent years as derelict vessels attracted illegal activity. But thanks to a major cleanup effort by a consortium of more than fifteen agencies and organizations that spent in sexcess of \$4.3 million, the Oakland Estuary is free of potential environmental and navigational hazards.

"It's a huge success," says Brock de Lappe, Harbor Master of the Alam eda Marina who in early 2012 brought stakeholders together to address the problem.

The items removed from the estu ary include 58 vessels, four dilapid docks, and some 365 tons of metal, which has been recycled under the direction of the California Departme



cisco Bay Conservation and Develor ment Commission.

Keeping labs on usestionable or sels typically fulls to county full sels of the commission of the county law enforcement, and in recent yemany municipalities have strength ened local anchor-out ordinances aid officers in citing derelic vesse But according to de Lappe, Alame County has not followed suit and sers from a funding cut to its harbcontrol unit.

Now that the cleanup has been done, what's to prevent it from hap pening again?" de Lappe says. Alar eda County Supervisor Wilma Char

CONTACT: Brock de Lapp

nutrients in wastewater discharges throughout the watershed out for public review. "We don't want to experience the problems we see elsewhere in the country." RM

CONTACT: Naomi Feger, Naomi.Feger@waterboards.ca.go David Senn, davids@sfei.orgUSGS Monitoring: http://sfbay.wr.usgs.gov/access/wqda index.html

> New Report Due Out Late Marci http://www.sfei.org/documents

RMP Web Site

- Recent activity
 - □ CD3 development work
 - Funded by State Board
 - \$60K worth
 - Switch to demo



RMP Web Site

- Recent activity
 - □ CD3 development work
 - Funded by State Board
 - \$60K worth
 - Switch to demo
 - Analytics



RMP Web Page Hits



RMP Web Page User Flow

(>100 more pages)

1.33K



http://www.sfei.org - http://www.sfei.org Go to this report www.sfei.org RMP only no internal

Jan 1, 2013 - Dec 31, 2013

Users Flow

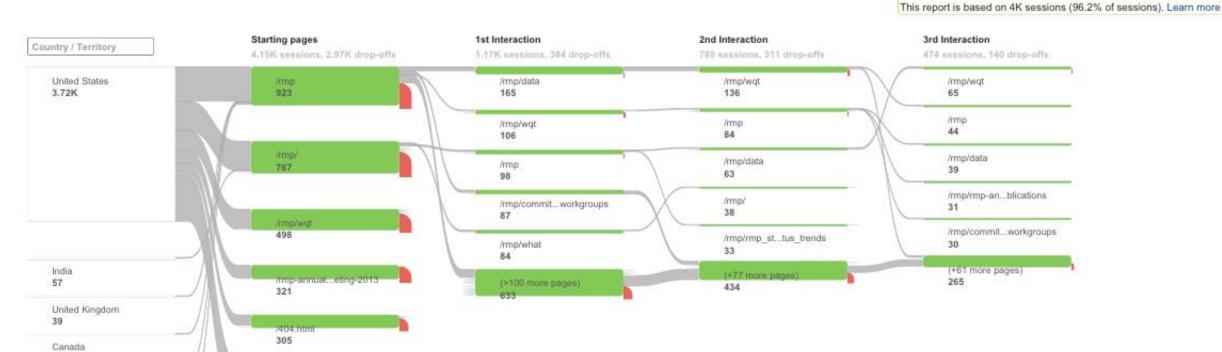
All Sessions

35

32

261

France



RMP Web Site

- Recent activity
 - CD3 development work
 - Funded by State Board
 - \$60K worth
 - Switch to demo
 - Analytics
- Next steps and possible improvements
 - SFEI Communication Strategy web site overhaul



RMP Update

- Recent activity
 - □ 2012 edition
 - Distribution
 - xx printed 10 left
- Next steps
 - Next edition in 2014
- Possible improvements
 - Make it an interactive e-book pilot



Technical Reports

- Recent activity
 - Xx reports in 2013
 - Highlights
- Next steps
 - □ Coming soon...
 - PCB Synthesis
 - Nutrient Conceptual Model
- Possible improvements
 - Improve access on web site –page highlighting recent reports

Journal Publications

- Process
 - Part of project scoping in proposal development
 - Sometimes augmented or picked up by SFEI
- Recent activity
 - □ Xx in 2013
 - Highlights
- □ Coming soon...
 - Coring article
 - PFC article
- Possible improvements
 - Improve access on web site page highlighting recent reports

Annual Meeting

- Recent activity
 - □ Joint with SOE in 2013
 - Attendance
 - 2012 xx
 - 2013 xx
 - Social media
- Next steps
 - Program Update theme in 2014
- Possible improvements
 - Archive video?
 - Expand social media during Pulse or SOE years

Email Updates

- Recent activity
 - □ Pilot in January 2014
 - Distribution list of 950xx people
- Next steps
 - Continue on quarterly basis
- Possible improvements
 - Develop formatted version

View this email in your browser

- 1. SFEI-ASC Seeks to Fill Two Important Positions: Executive Director, Senior Project Manager
- 2. Jim Kelly Appointed Interim Director of SFEI-ASC
- 3. PFCs in the News
- 4. Special Issue of Marine Geology on Sediment Transport in San Francisco Bay
- 5. RMP Journal Publication on Mercury in San Francisco Bay Forage Fish

1. SFEI-ASC Seeks to Fill Two Important Positions: Executive Director, Senior Project Manager

Your assistance would be greatly appreciated in helping spread the word about two openings at SFEI.

SFEI-ASC Executive Director: This is an exciting opportunity to lead the San Francisco Estuary Institute/Aquatic Science Center, a well-respected scientific organization whose opinion is sought out by decision-makers across the state. Under the general direction of, and working in partnership with, a Board of Directors, the Executive Director provides leadership, vision, and overall direction of staff, business and operations. The successful candidate will join a semi-academic work setting and lead a diverse group of environmental scientists and administrative support staff whose mission is to foster development of the scientific understanding needed to protect and enhance the San Francisco Estuary. More details are in the attached brochure and on the SFEI web site. Filing date: Sunday, February 16, 2014.

Senior Project Manager: SFEI-ASC is seeking a Senior Project Manager to assist in the management of projects within the Clean Water Program, including the Regional Monitoring Program for Water Quality in San Francisco Bay (Bay RMP), the Delta Regional Monitoring Program (Delta RMP), and the San Francisco Bay Nutrient Management Program. The successful candidate will have a demonstrated range and depth of skills in project management, conducting scientific investigations, or managing environmental stakeholder processes. This position will report directly to SFEI-ASC's Clean Water Program Directors (Drs. Jay Davis and David Senn) and is an integral part of the Clean Water team of senior scientists and managers. Position open until filled. More information.

2. New Interim Executive Director for SFEI-ASC

The SFEI-ASC Board has appointed Jim Kelly, former General Manager of the Contra Costa Sanitation District, to assume the role of Interim Executive Director. With over forty years of experience in environmental engineering and agency management, Mr. Kelly is a seasoned

SFEI Newsletter

- New item under consideration as part of SFEI Communications Strategy
- Quarterly
- Would include some RMP info as part of a Clean Water update
- Next steps
 - Approval pending

Social Media

- New item under consideration as part of SFEI Communications Strategy
- □ Twitter
 - Jay's legion of followers
- Next steps
 - Approval pending