

## **Newport Combined Sewer Overflow (CSO) Stakeholder Workgroup: Meeting #6**

ATTENDEES: See Attachment 1

DATE & PLACE: February 9, 2012 @ 3:00 PM; City Hall Council Chamber,  
43 Broadway Newport, RI

### **Welcome & Introductions**

Julia Forgue introduced City staff as well as the CH2M HILL consultant team members.

### **Overview of CSO Program Schedule**

Julia Forgue provided an overview of the, CSO Program Mission Statement and CSO Program schedule.

### **Overview of Agenda**

Julia Forgue provided an overview of the agenda and asked if there were any questions before moving forward. A summary of the agenda follows:

1. Overview of the CSO Program schedule
2. Approval of previous meeting's minutes
3. Follow-up on Parking Lot items
4. Key Meeting Topics
  - a. Alternatives Evaluation Process
  - b. Exercise on Identifying Priorities
5. Questions
6. Next meeting information

### **Previous Meeting's Minutes**

The minutes of the fourth meeting were approved.

### **Update on Parking Lot from Previous Meeting**

Updates and answers to the two parking lot items from the previous meeting were presented.

The two parking lot questions were:

1. Is there an update on the number of verified catch basins?

The number of verified catch basins has increased significantly over the last year as show in Exhibit 1 below which was presented at the meeting.

EXHIBIT 1  
Summary of Catch Basin Inspection Status

<b>Summary of Catch Basin Inspections Status</b>			
<b>Category</b>	<b>February 2011</b>	<b>May 2011</b>	<b>February 2012</b>
<b>City of Newport</b>			
Connected to Sanitary Sewers		27	36
Connected to Storm Drains		911	1,622
Not yet confirmed	2,895	1,957	735
Subtotal	2,895	2,895	2,393
<b>Owned by others</b>			
Connected to Sanitary Sewers			2
Connected to Storm Drains			115
Not yet confirmed			272
Subtotal			389
<b>Total</b>	<b>2,895</b>	<b>2,895</b>	<b>2,782</b>

<sup>1</sup> Counts are based on the inventory in the GIS - which changes as inspections are performed.

Q: What are the criteria to identify if it is cost effective to disconnect these catch basins?

A: The City has money earmarked in the FY 2013 budget to disconnect these catch basins.

Q: Is disconnecting these catch basins a priority over repairs to the headworks at the WPCP?

A: No, these should be disconnected, but the headworks is also an asset management project that needs to be completed.

Q: How long will it take to complete the remaining catch basin inspections?

A: If the weather holds, they should be done in about 3-4 months.

2. Can an update on system improvements (WPCP, I/I removal, etc.) be provided?

A large number of improvements were made at the WPCP and in the collection system during 2011 and the Department of Utilities has plans to design and/or start additional improvements in 2012. A handout listing projects completed in FY 2011 and those planned for FY 2012 & 2013 was provided to the stakeholders and is included in Attachment 2.

Q: What is the extent of I/I from downspouts and sump pumps?

A: The I/I from downspouts and sump pumps is quite large, more than from public sources.

Q: What is the status of improvements to the headworks? There was a recommendation to consider vortex technology.

A: There have been no violations at the WPCP because of the headworks, therefore the City is waiting until the design criteria are defined in the System Master Plan. The headworks design is programmed in the City's CIP to start in FY 2013.

## Alternatives Evaluation Process

Peter von Zweck of CH2M HILL presented an overview of the criteria that will be used for evaluating proposed solutions. Key topics presented included:

- Objectives for the meeting: to collect initial input toward prioritizing the criteria that will be used for evaluating proposed solutions.
- A handout for a group exercise was given to each of the stakeholders to take notes during the discussion and the exercise was completed at the end of the technical presentation. A copy of the handout is included as Attachment 3.
- Factors affecting selection of recommended system improvements:
  - Regulatory
  - Water quality benefits
  - Social impacts
  - Costs and affordability
- Key regulatory documents:
  - Clean Water Act
  - EPA CSO Policy
  - Consent Decree
- A key regulatory decision point is determining in the Collection System Capacity Assessment if CSOs can be eliminated through I/I reduction and current system storage (i.e. no additional storage or upgrades at the WPCP). We will be at this decision point in the next couple of months.
- Water Quality
  - Need to meet the water quality-based requirements of the Clean Water Act and protect sensitive areas
  - The City's Harbor water quality monitoring data was presented and is shown in Exhibit 2.
- Social/Community impacts
  - Reduction of beach closures/more swimming days
  - Associated public improvements
  - Protection of public spaces
  - Inconvenience to private property owners
  - Reduce in-system surcharging
  - Basement back-ups & SSOs
  - Sustainability
- Costs and affordability
  - Newport is classified as Mid-range financial capability, which would limit rates to 2% of annual median household income.



## EXHIBIT 2

## Newport Harbor Monitoring Results

Year	Total Samples Collected	Total Enterococci Exceedances+	Enterococci Exceedances Associated w/ Rainfall (but No CSO Event)	Enterococci Exceedances within 2 days of a CSO Event	Enterococci Exceedances Preceded by at least 24 hrs of Dry Weather
2008*	130	9	0	6	3
2009	530	4	1	1	2
2010	520	10	4	5	1
2011*	300	2	2	0	0
Total	1480	25	7	12	6

\*2008 & 2011 are partial years.

### Questions & Answers:

Q: Are there sensitive waters in the project area?

A: King Park Beach is a sensitive waters area, but the Wellington CSO Outfall has already been moved away from this area.

Q: Has Providence eliminated CSOs?

A: (Response from RIDEM) No. Narragansett Bay Commission has a 3-phase approach and is currently building Phase 2. When Phase 3 is completed, they will still be allowed up to 4 overflows per year. Boston is the only community that has been declared "done" in dealing with CSOs.

Q: Does EPA help CSO communities share information?

A: (Response from RIDEM) While CSO communities may look the same, but there are significant differences in the details. The City is doing the right thing by getting a good understanding of the collection system prior to planning.

Q: What if the City can't keep up with the deterioration of the system within affordability limits?

A: The City will continue with asset management but the SMP will identify more CSO elimination projects and the timing will be determined based upon affordability.

Q: Is the Consent Decree based on the Clean Water Act?

A: Yes, but the implementation schedule is the key as a longer schedule will have less financial impact.

Q: Can other dischargers to Newport Harbor/Narragansett Bay impact the water quality results?

A: (Response from RIDEM) For enterococci the results are localized.

Q: What could be sources of pollutants other than CSOs?

A: Stormwater and boats. (Response from RIDEM) If there is going to be more stormwater because of I/I reduction, we can't ignore that stormwater also has bacteria.

Q: Has the City's stormwater been sampled?

A: Not directly.

Q: What is the status of closures at King Park Beach?

A: Since reopening it was closed once which was unrelated to CSOs. All closure information can be found on the Department of Health web-site.

Q: Some streets in Newport flood. If there is more I/I removal, would more catch basins need to be put in?

A: Disconnection may have associated new stormwater infrastructure costs that need to be accounted for.

Q: What is the possibility of folding the program costs into the tax base rather than rates?

A: If this was implemented, capital projects would not be able to use revenue bonds and would have to go to general obligation bonds. This option can be evaluated.

### **Parking Lot:**

- There were no questions placed in the Parking Lot.

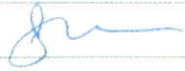

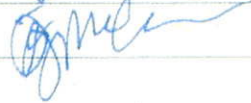
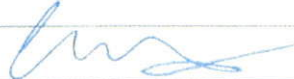




### **Next Meeting**

The next meeting was set for March 8, 2012 at 3pm at the Newport Police Station Assembly Room. The topic of the next meeting will be system behaviors and control technologies.



# CSO Stakeholder Workgroup Meeting #6

## Attendees

MEETING DATE:	Thursday February 9, 2012 @ 3:00 PM	
LOCATION:	City Hall Council Chambers - Newport, RI	
Name	Affiliation	In Attendance
Workgroup Members		
Justin McLaughlin	City Council	
Ray Smedberg	Ad Hoc Committee	
David McLaughlin (Alternate)	Ad Hoc Committee	
John McCain	ALN	
Roger Wells (Alternate)	ALN	
Tina Dolan	Aquidneck Island Planning Commission	
Chris Witt (Alternate)	Aquidneck Island Planning Commission	
Charles Wright	Beach Commission	
Kathleen Shinnars (Alternate)	Beach Commission	
Bill Riccio	Dept. Public Services	
Eric Earls (Alternate)	Dept. Public Services	
Paige Bronk	Dept. Planning	
Bill Hanley (Alternate)	Dept. Planning	
Tim Mills	Harbor Master	
Mary E. Dever-Putnam	EPA	
James Carlson	NSN	
William Monaco (Alternate)	NSN	
Jody Sullivan	Newport County Chamber	
Ed Lopes (Alternate)	Newport County Chamber	
Evan Smith.	NCCVB	
Cathy Morrison (Alternate)	NCCVB	
Shawn Brown	Middletown	
Tom O'Loughlin (Alternate)	Middletown	
Eric Beck	RIDEM	
Angelo Liberti (Alternate)	RIDEM	
Jim Brunnhoeffer	RWU	
B. Gokhan Celik (Alternate)	RWU	

MEETING DATE: Thursday February 9, 2012 @ 3:00 PM

LOCATION: City Hall Council Chambers - Newport, RI

Name	Affiliation	In Attendance
<del>John Forgan</del> <i>Tophia</i> <del>Hamblett</del>	Save the Bay	TH
Wendy Waller (Alternate)	Save the Bay	
Tom Cornell	Resident	TC
Stuart K. Mills, Jr.	Resident	
Roger Slocum	Resident	RS
Ted Wrobel	Resident	

Other Attendees

Julia Forgue	City of Newport	✓
Ken Mason	City of Newport	KM
Mike Domenica	CH2M HILL	✓
Peter von Zweck	CH2M HILL	PvZ
Becky Weig	CH2M HILL	BW
Jim Lauzon	United Water	

## Attachment 2

### Recent & Upcoming City of Newport Collection System and Wastewater Treatment Improvements

#### Collection System and Wastewater Treatment Improvements Completed in FY 2011

Project Type	Projects
<b>I/I Reduction</b>	<ul style="list-style-type: none"> <li>• Verified private defect (roof leader and sump pump) disconnections</li> </ul>
<b>Infrastructure Renewal (Asset Management)</b>	<ul style="list-style-type: none"> <li>• Collection System - Completed replacement of Wellington Ave. Interceptor</li> <li>• Collection System - Completed rehabilitation of Thames St. Interceptor</li> <li>• Collection System - Completed high priority sewer replacement (based on revised plan)</li> <li>• Collection System - Cleaned and CCTV'd Narragansett Ave. Storage Conduit</li> <li>• Collection System - Replacement of sanitary sewer and storm drains - Sherman St.</li> <li>• CSO Treatment Facilities - Completed sedimentation basin modifications at Washington St.</li> <li>• FM - Completed condition assessment of Bliss Mine FM and replaced air relief valve ; FM determined to not be in need of any repairs</li> <li>• PS - Repaired main breaker at Long Wharf PS</li> <li>• PS - Repaired the roof at Wellington Ave. PS</li> <li>• PS - Replaced pump at Coddington Wharf PS</li> <li>• PS - Repaired building and rehabilitated grit chamber at Long Wharf PS</li> <li>• PS - Condition assessment at Beach PS</li> <li>• WPCP - Installed chemical induction mixers in chlorine contact tanks</li> <li>• WPCP - Rehabilitated 2 primary clarifiers</li> <li>• WPCP - Rehabilitated 1 final clarifier</li> <li>• WPCP - Installed solids metering equipment</li> <li>• WPCP - Returned 4 grit chambers to operational condition</li> <li>• WPCP - Returned 5 chlorine feed pumps to operational condition</li> <li>• WPCP - Returned 4 secondary clarifiers to operational condition</li> <li>• WPCP - Retrofitted 2 primary effluent pumps</li> <li>• WPCP - Installed new gear drive for 3<sup>rd</sup> effluent lift pump</li> <li>• WPCP - Completed improvements to belt filter press, conveyor and gravity thickener</li> </ul>
<b>New Facilities</b>	<ul style="list-style-type: none"> <li>• No new collection system or wastewater treatment facilities were constructed in 2011.</li> </ul>



## Collection System and Wastewater Treatment Improvements Planned for Fiscal Years 2012 & 2013

<b>I/I Reduction</b>	<ul style="list-style-type: none"> <li>• Design &amp; construction for disconnection of 36 catch basins identified as connected to the sanitary sewer system</li> <li>• Replace 30 vented manhole covers (out for bid)</li> <li>• Continued enforcement of Sewer Use Ordinance for disconnection of downspouts and sump pumps</li> <li>• Installation of tide gates to storm drainage system at Marsh St. (complete)</li> <li>• Installation of tide gates to storm drainage system on Bridge St.</li> </ul>
<b>Infrastructure Renewal (Asset Management)</b>	<ul style="list-style-type: none"> <li>• Collection System - Construction of collection system repairs (Carroll Ave. &amp; Old Fort Rd. area)</li> <li>• Collection System - Raise paved over manholes</li> <li>• PS - Electrical upgrades at the Ruggles Ave. PS</li> <li>• PS - Construct new Beach PS</li> <li>• WPCP - Retrofit 3<sup>rd</sup> primary effluent pump</li> <li>• WPCP -Headworks Improvements &amp; Upgrades</li> </ul>
<b>New Facilities</b>	<ul style="list-style-type: none"> <li>• No new collection system or wastewater treatment facilities are planned for construction in FYs 2012 &amp; 2013.</li> </ul>

Additional projects will be identified as part of System Master Plan which will be submitted to EPA in November 2012.

## Attachment 3

### Prioritization of Evaluation Criteria Affecting Recommended Controls

Please weight the below criteria 0-10, with 10 being of highest importance and 0 being of no importance.

Factors	Weight
<b>Regulatory</b>	
- Compliance with Clean Water Act requirements	
- Compliance with National CSO Policy	
- Compliance with implementation schedule set forth in CD	
<b>Water Quality</b>	
- Meet WQ standards in Newport Harbor	
- Support designated uses in Newport Harbor	
- Elimination of CSOs	
- Control of other sources of pollutants	
<b>Social/Community Impacts</b>	
- Reduction of beach closures/more swimming days	
- Associated public improvements (beautification, etc. from green controls) – or protection of existing public space?	
- Inconvenience to private property owners	
- Reduce in-system surcharging, basement backups & SSOs	
- Sustainability	

Costs/Affordability	
- Cost effectiveness based on \$/gallon CSO removed	
- Cost effectiveness for \$/CSO event eliminated	
- Cost effectiveness based on \$/days violation eliminated	
- Minimizing capital cost	
- Minimizing long-term O&M costs	
- Keeping rates under/at affordability limits	