

## Newport Combined Sewer Overflow (CSO) Stakeholder Workgroup: Meeting #7

ATTENDEES: See Attachment 1

DATE & PLACE: August 9, 2012; City Hall, Council Chambers

### Welcome & Introductions

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

### Overview of Agenda

Julia Forgue provided an overview of the agenda and asked if there were any questions before moving forward. The objective for this meeting is to collect comments from stakeholders on how each control technology meets the City's objectives so that a draft System Master Plan (SMP) can be prepared. A summary of the agenda follows:

1. Review of the Workgroup guidelines and schedule
2. Approval of previous meeting's minutes
3. Follow-up on Parking Lot items
4. Key Meeting Topics
  - a. SMP Control Technologies - Preliminary Screening
  - b. SMP Control Technologies - Hydraulic Modeling Results
  - c. Comments & Input for Draft SMP
5. Next meeting information

### Overview of CSO Program Schedule

Julia Forgue provided an overview of the CSO program schedule and review of the Stakeholder Workgroup Mission Statement.

### Previous Meeting's Minutes

The minutes of Meeting #6B were approved.

### Update on Parking Lot from Previous Meeting

#### Questions & Answers:

1. How do sources from upstream in the Bay affect water quality in Newport Harbor?

A response was provided by Angelo Liberti of RIDEM in a memorandum sent to the CSO Stakeholder Workgroup members prior to the meeting.

2. Can an update on the status of the catch basin disconnection process be provided?

As of June 30<sup>th</sup> the City has completed physical inspections for 91% of its catch basins

- 57 catch basins have been identified as connected to the sanitary sewer system
- Inspections of privately owned and RIDOT catch basins continues as access is granted
- The City has prepared an RFP for drawings and specifications required to remove the catch basins identified to-date
  - Design is scheduled for FY2013
  - Construction will be completed in phases

Q: Which catch basins are worth disconnecting and which ones are not worth disconnecting based on inspections?

A: An engineering company will be hired through a Request for Proposal (RFP) to determine the workload and numbers.

Q: Are private catch basins included in the listed number of about 3,000?

A: Yes. There are currently 3,077 known catch basins city-wide; 2,505 of the 3,077 are owned by the City. The number of catch basins has increased throughout the inspection program.

## Key Meeting Topics

### SMP Control Technologies – Preliminary Screening

Peter von Zweck restated the purpose of the preliminary screening: to identify the control technologies and project sites that will best achieve stakeholder priorities and program goals. The control technologies and project sites are then studied by conceptual designs, hydraulic modeling, and cost estimates. Peter von Zweck reviewed the methodology for preliminary screening, including performance of a qualitative assessment of control options. The rating system of assessment was discussed. The results of preliminary screening were discussed and are presented in Exhibit 1. In summary, the top 15 projects selected for detailed evaluation were identified.

#### Questions & Answers:

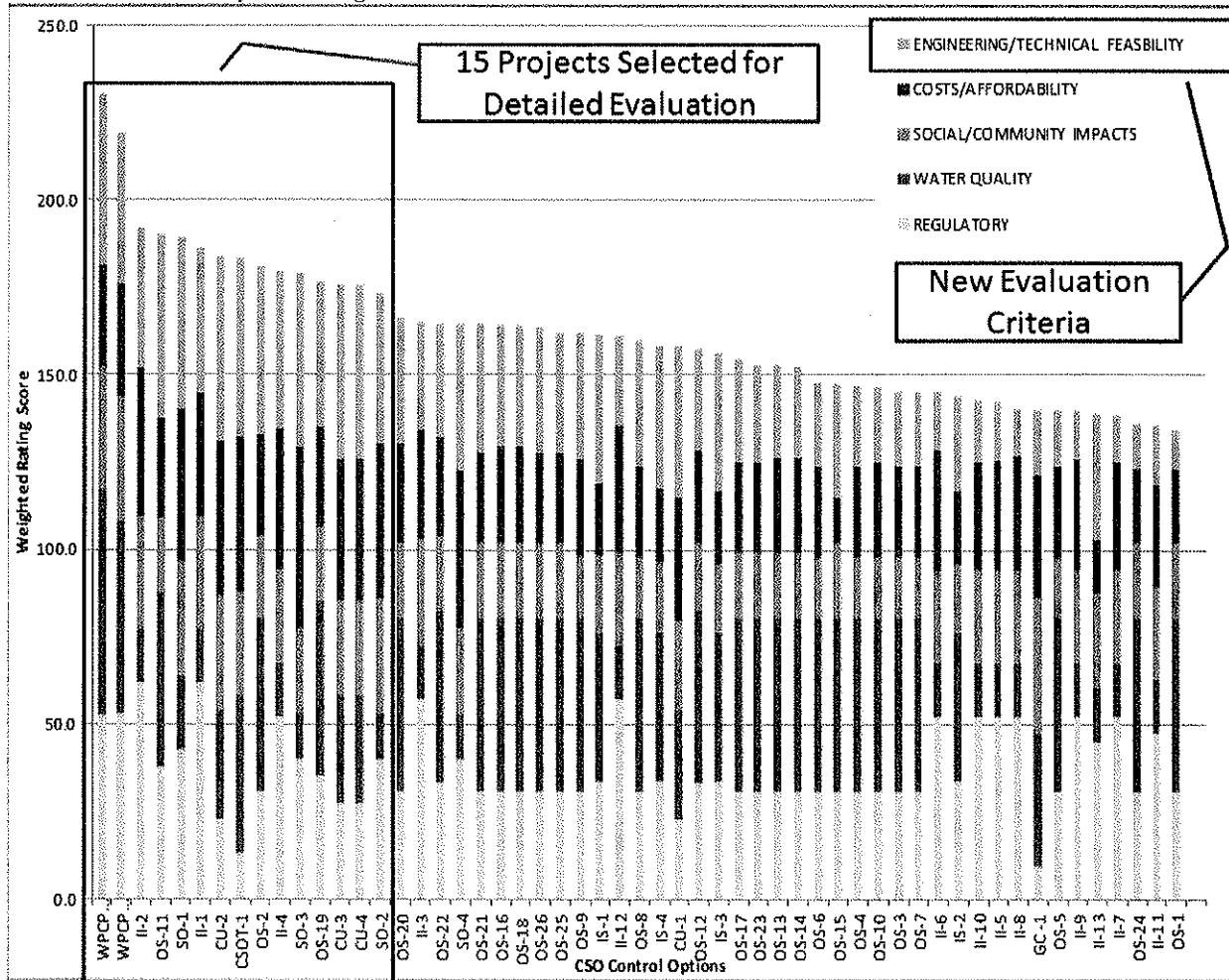
Q: What type of criteria did CH2M HILL use to determine the top 15 selections?

A: The criteria used were engineering and technical feasibility and those developed by stakeholders at previous meetings. Availability of flow was a large factor in determining technical feasibility.

Q: Where is pipe replacement ranked in the preliminary screening?

A: Pipe replacement is not directly shown in the top 15 selections because it is already built into the baseline of projects.

**Exhibit 1**  
Results of Preliminary Screening



**Overview of Selected Control Technologies**

Peter von Zweck gave an overview of the top 15 control technologies selected. Key attributes for each were identified.

**Costs for Selected Control Alternatives**

Peter von Zweck discussed capital costs, operation & maintenance (O&M) costs, and service life of the control alternatives. A brief introduction of cost estimates was given to develop an understanding of total costs for selected control alternatives. The estimated capital, change in annual O&M, and total annual costs for the top 15 selected control alternatives were given.

**Questions & Answers:**

Q: Can we use Chemically Enhanced Primary Treatment (CEPT) only when we need to in order to reduce cost?

A: CEPT is typically designed in this way; however storage of chemicals is costly.

Q: How is downspout disconnection so expensive?

A: The estimates turned out to be approximately \$4,000 per property. Disconnections could have nearly zero cost, while other disconnection costs could be very high. . For example, the 'cut and splash' technology is inexpensive, while new plumbing or piping has many costs associated with it.

Q: Is there any cost impact of new equipment, i.e. generators?

A: These assumptions were made and included in individual cost estimates.

### **SMP Control Technologies – Hydraulic Modeling Results CSO Control Alternative Scenarios**

Peter von Zweck discussed the formulated combinations of control technologies (scenarios). A collection of alternatives were established as the Baseline (BL) for all 12 scenarios. A calibrated hydraulic model evaluated the benefits of each scenario. A summary table of the Alternatives Evaluated for the SMP, Exhibit 2, was explained. Water quality benefits from hydraulic modeling of a 2-year, 6 hour duration storm were discussed. The capital, change in annual O&M, and total annual costs were identified for each scenario listed.

#### **Questions & Answers:**

Q: Are the charts shown in the slides based on dry weather or wet weather data?

A: Wet weather.

Q: What was the concentration used for creating the Fecal Coliform Loads chart?

A: 1500mg/L

Q: Is Baseline cost included in each scenario?

A: Yes

**Exhibit 2**

## Summary of Alternatives Evaluated for SMP

Control Technology	Scenario												
	BL	RC	T1	T2	T3	S1	S2	S3	C1	M1	M2	M3	M4
Recently Completed or Planned CIP Projects	●	●	●	●	●	●	●	●	●	●	●	●	●
WPCP-1 WPCP Upgrade & Expansion			●	●	●	●	●	●	●	●	●	●	●
WPCP-2 CEPT			●	●	●							●	●
OS-11 (Washington CSO Facility)						●	●	●		●	●		
SO-1 WPCP Flow Optimization			●	●	●		●	●	●	●		●	●
CU-2 (Catchment 10 Reroute)					●				●	●	●	●	●
CSOT-1 Enhanced CSO Treatment		●	●	●	●								●
OS-2 (WPCP)						●	●					●	
II-4 Downspout Disconnection									●	●	●	●	●
SO-3 Weirs				●	●		●	●	●	●	●	●	●
OS-19 (King Park, Wellington Ave by CSO Facility)						●	●	●			●		
SO-2 Increased Pumping Capacity/Better Use of System Capacity			●	●	●		●	●	●	●	●	●	●

**CSO Control Alternative Scenarios Affordability**

Mike Domenica discussed the City's budget for the CSO program. The City's budget was compared to other local towns/cities. The goal of determining with stakeholders the final selection of a CSO control alternative was defined. Four scenarios were highlighted for comparison of increased residential annual sewer bill.

**Questions & Answers:**

Q: Why is Newport so different in comparison to other cities regarding affordability and budget?

A: Not all compared cities have a combined sewer system. Some cities have many more or less system users. Some cities use different portions of their tax money for system upgrades and operation.

Q: Why does the hydraulic modeling use storm years instead of regular storm events?

A: EPA initially declared Newport as a Separated Sewer System. EPA has now declared Newport to in fact be a Combined Sewer System.

**Parking Lot**

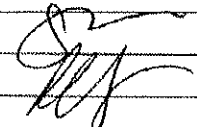
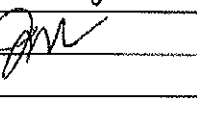
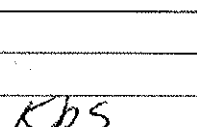
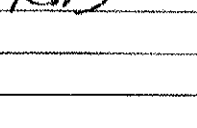
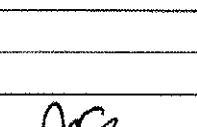
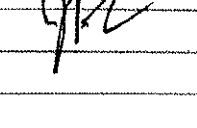
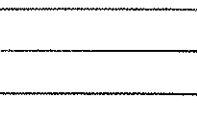
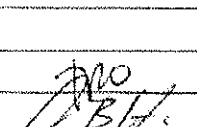
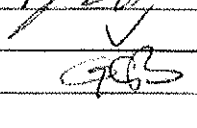



- Can a dry weather graphic for water quality benefits be presented?
- Can hydraulic modeling graphics for 5 and 10-year storms be presented?

## **Next Meeting**

The next meeting was set for August 14, 2012 at 3:00 pm at City Hall, Council Chambers. This meeting will be a continuation of Meeting #7.

# CSO Stakeholder Workgroup Meeting #7

## Attendees

MEETING DATE:	Thursday August 9, 2012 @ 3:00 PM	
LOCATION:	City Hall Council Chambers - Newport, RI	
Name	Affiliation	In Attendance
<b>Workgroup Members</b>		
Justin McLaughlin	City Council	
Ray Smedberg	Ad Hoc Committee	
David McLaughlin (Alternate)	Ad Hoc Committee	
John McCain	ALN	
Roger Wells (Alternate)	ALN	
Tina Dolen	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	
<del>Ive Haberman</del> Eric Beck	RIDEM	
Angelo Liberti (Alternate)	RIDEM	
Jim Brunnhoeffler	RWU	
B. Gokhan Celik (Alternate)	RWU	

MEETING DATE:	Thursday August 9, 2012 @ 3:00 PM	
LOCATION:	City Hall Council Chambers - Newport, RI	
Name	Affiliation	In Attendance
<del>John Torgan</del>	Save the Bay	DLP
Wendy Waller (Alternate)	Save the Bay	
Tom Cornell	Resident	Tc
Stuart K. Mills, Jr.	Resident	
Roger Slocum	Resident	
Ted Wrobel	Resident	
<b>Other Attendees</b>		
Julia Fogue	City of Newport	
Ken Mason	City of Newport	KM
Mike Domenica	CH2M HILL	
Peter von Zweck	CH2M HILL	
Becky Weig	CH2M HILL	
Jim Lauzon	United Water	
Jim		

D PRESENT