

Walker, Leah

From: Kennedy, Holly <Holly.Kennedy@hdrinc.com>
Sent: Monday, December 21, 2015 10:16 PM
To: Rhodora Biagtan
Cc: Walker, Leah; 'Lorien Fono'
Subject: RE: recycled water survey
Attachments: FW: CMG Meeting Notes and Updated RFIs

Hi Rhodora,
The data requests are in the attached email from Dave to the CMG members.

The info collected on future recycled water amounts will be summarized in the Upgrades/Optimization study as alternative strategies to reduce nutrient loading to the Bay (obviously only consumptive RW use would help with nutrient reduction which is why we ask for use type). This request was developed largely by Lorien. The CMG requested that we add the likelihood of implementation to have a feel for how solid the numbers are. This will only be sent to the POTWs, not water agencies. So I'm not sure how there could be overlap. But let me know if you have any thoughts.

The second data request is for specific projects. These would not be shared with the Water Board. Rather, the request is to gather data more for understanding the suite of projects / efforts that could potentially fall into an "early action" type strategy during negotiations on the next permit... there would be many many discussions about that internally. This is really only to provide an understanding of what plants are already planning to do.

We are planning to add reference to implementation of bench / pilot testing projects as well.

Let me know if you have any comments or questions. We'll hold off on sending this out until after the first, so you certainly have time to comment.

Thanks!!

Holly Kennedy, PE
D 925.974.2617 M 925.209.0696

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From: Rhodora Biagtan [<mailto:biagtan@dsrsd.com>]
Sent: Monday, December 21, 2015 3:25 PM
To: Kennedy, Holly
Cc: Leah Walker; 'Lorien Fono'
Subject: RE: recycled water survey

Hi Holly:

I look forward to receiving a copy of the survey. So that we have an informed group completing the survey, would you please let me and Leah (BACWA RW Committee co-chair) know how you plan to use the data you collect?

I have not had the opportunity to look at the information request, so this may not be necessary. Having gone through a recycled water survey in the past for BACWA and DWR, the data received sometimes conflicted or were duplicative since service areas overlap. If needed, is there opportunity to provide input to the survey.

Thanks.
Rhodora

RHODORA N. BIAGTAN, PE
PRINCIPAL ENGINEER-SUPERVISORY

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-----Original Message-----

From: Lorien Fono [<mailto:lfono@bacwa.org>]

Sent: Sunday, December 20, 2015 4:10 PM

To: Kennedy, Holly <Holly.Kennedy@hdrinc.com>; Rhodora Biagtan <biagtan@dsrsd.com>; Leah Walker <LWALKER@ci.petaluma.ca.us>

Subject: recycled water survey

Holly, I've Cc'ed Rhodora and Leah, the two Recycled Water Committee chairs on this email. As we discussed at Friday's meeting could you please share the latest recycled water info request with the two of them? I believe you made some changes since the version I saw a couple of weeks ago.

Thanks

Lorien

--

Lorien Fono, Ph.D., P.E.
BACWA Regulatory Program Manager
510-684-2993

Walker, Leah

From: Dave Williams <dwilliams@bacwa.org>
Sent: Thursday, December 17, 2015 9:17 PM
To: Bhavani Yerrapotu; De Sa, Joanna; gbaatrup@fssd.com; Jason Warner; Jean-Marc Petit; Lorien Fono (Ifono@pmengineers.com); Roa, Amanda; Stefani Harrison@sfwater.org; Teresa Herrera; vdelange@ebmud.com; Yun Shang
Cc: Mike Connor; Kennedy, Holly; Neethling, JB; Falk, Mike
Subject: FW: CMG Meeting Notes and Updated RFIs
Attachments: CMG Meeting Notes_20151211.docx; BACWA_RW Data Request_20151217.xlsx; BACWA_CIP Data Request_20151217.xlsx

CMG, per our last conference call, HDR has revised the **Recycled Water and CIP data request sheets** (see attached). Also attached are the minutes from the last call and a schedule for the batches of Op/Upgrade draft individual reports that will be coming out for CMG and POCs reviews. Please let me know if you have any comments or questions.

David R. Williams
Executive Director
Bay Area Clean Water Agencies (BACWA)
Cell: 925-765-9616
Email: dwilliams@bacwa.org

From: Kennedy, Holly [<mailto:Holly.Kennedy@hdrinc.com>]
Sent: Thursday, December 17, 2015 4:13 PM
To: Dave Williams
Cc: Lorien Fono; Neethling, JB; Falk, Mike
Subject: CMG Meeting Notes and Updated RFIs

Dave,
Please find attached the draft meeting notes from our CMG call last Friday, December 11th. The last page of the notes includes the proposed schedule to complete the draft reports for the respective agencies. I've also attached updated spreadsheets for the Recycled Water and CIP data request based on the discussions we had.

Please let me know if you have any questions.

Thanks!

Holly Kennedy, PE
Vice President | Water Business Group Manager

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CMG Meeting Notes (8:00 am)

Project: BACWA Nutrient Optimization and Upgrades Studies

Subject: Monthly CMG Call

Date: Friday, December 11, 2015

Location: Phone #: 866-583-7984; code: 355-0210-881#

Attendees:

<input checked="" type="checkbox"/> Greg Baatrup	<input type="checkbox"/> Mike Conner
<input type="checkbox"/> Vince De Lange	<input type="checkbox"/> Yuyun, Shang
<input type="checkbox"/> Joanna De Sa	<input checked="" type="checkbox"/> JB Neethling
<input checked="" type="checkbox"/> Teresa Herrera	<input checked="" type="checkbox"/> Holly Kennedy
<input checked="" type="checkbox"/> Amanda Roa	<input checked="" type="checkbox"/> Mike Falk
<input checked="" type="checkbox"/> Bhavani Yerrapotu	<input type="checkbox"/> Rion Merlo
<input type="checkbox"/> Jean-Marc Petit	<input checked="" type="checkbox"/> Lorien Fono
<input checked="" type="checkbox"/> Stephanie Harrison	<input checked="" type="checkbox"/> David R. Williams
<input checked="" type="checkbox"/> Jason Warner	<input type="checkbox"/> Jim Graydon

I. Review Agenda

II. Optimization / Upgrades Analysis Status

A. Recycled Water and CIP Data Request

1. A third data request was prepared (provided with the agenda) to collect information related to recycled water and planned CIP projects that could impact nutrient loading, such as early actions / pilot projects and upgrades that agencies are actually planning which could potentially be used during negotiations for the next permit requirements (e.g., Early Actions).
2. The Watershed Permit requires quantification of recycled water and the Recycled Water committee typically collects information every couple years.
3. The recycled water spreadsheet will be reorganized to better allow agencies to characterize the certainty of implementation, such as whether the plans are part of a CIP, an adopted Master Plan, or are in the discussion phase.
4. The CIP worksheet will be a separate file and additional columns will be added for estimated load reductions or final TN, and expected data of completion.
5. The recycled water spreadsheet will be used for the optimization/upgrade studies and the request for future nutrient removal projects will be used for internal discussions on early actions for negotiating the next watershed permit. We will inform agencies in the email request and on the Read Me page that the CIP information will not be shared without their signoff that it's ok.
6. There was a discussion about how to capture the certainty of future recycled water and CIP projects (e.g., if a project is in the 5-year, funded, CIP, the

probability may be 80% compared to a project in a 20-year master plan, which may only 20%). The spreadsheets will be modified to request additional information regarding project status.

B. Status of Collection of POTW Master Plans

1. About 30% of plants submitted master plans or similar materials. Most agencies don't have nutrient-related plans.
2. There was additional discussion related to the growth projections and whether to use Master Plan projections, ABAG projections, or some combination thereof.
3. HDR Action Item – HDR will prepare a table to summarize available master plan and ABAG growth projections, including both population and employment numbers from ABAG (due to daily commuter populations). Bring back to CMG for decision next month. Also send out to plant POCs for input.

~~C. No Net Loading Baseline~~

- ~~1. Meeting notes from November 13 CMG call have been updated to reflect the agreed upon approach for establishing growth projections:

 - ~~a. For those agencies without master plans, the average of the five BACWA Principals will be used, as it should reflect an overall trend for the region.~~~~

D. Schedule Update.

1. The project schedule for the Optimization and Upgrades Studies was updated (see attached). There will be a batch/wave approach to get individual reports out for each agency. The reports for agencies in that wave will be sent out at the same time to get feedback from each respective agency. Each agency report will be an appendix in the Final Report. Four waves are anticipated. The final wave of agency reports will be circulated in May. These need to be completed before working on the main body of the report, which will be complete in late June/early July.

III. Group Annual Report

A. Recommendations to the Water Board

1. Orthophosphate reporting. Soluble reactive phosphorus is essentially the same parameter as dissolved orthophosphate. Robert Schlipf at the Regional Water Board will put together a letter to make sure that everyone will report it as dissolved orthophosphate moving forward.
2. HDR has begun to work on a data collection tool to allow the team to avoid data collection through CIWQS. Agencies will begin reporting their data into the worksheet when it's available, and will need to backfill data through July 2015 for next year's annual report.

3. Board is also looking at ways for agencies to report recycled water in the future.

IV. Annual Meeting Presentation Topics

- A. HDR will prepare a draft presentation for the next CMG call on Jan 8, based on the information presented at the Pardee Retreat, including both the Annual Report and preliminary conclusions from the Optimization/Upgrade studies.

V. Topics on Hold

- A. None.

VI. Upcoming

- A. Next Board Meeting Briefing, December 18. Quarterly update for the Board.
- B. BACWA Annual Meeting, January 15th

Anticipated Schedule to Complete the Draft Agency Reports for the Optimization/Upgrade Study

Agency	Date
Wave 1	
DD (Delta Diablo)	Week of 1/31/2016
EBDA (Oro Loma)	
Dublin San Ramon Services District	
CCCSD (Central Contra Costa Sanitation District)	
City American Canyon	
City of Benicia	
City of Burlingame (Veolia Water on TR)	
EBDA (City of Hayward)	
City of Livermore	
Wave 2	
Mt. View Sanitary District (MVSD)	Week of 2/29/2016
Novato Sanitary District	
City of Palo Alto	
CSJ (City of San Jose)	
Treasure Island	
VS&FD (Vallejo Sanitation and Flood Control District)	
EBMUD (East Bay Municipal Utilities District)	
FSSD (Fairfield Suisun Sewer District)	
Wave 3	
Rodeo	Week of 4/4/2016
EBDA (Union San)	
CCSF (City and County of San Francisco South East)	
South San Francisco	
City of Sunnyvale	
CMSA (Central Marin Sanitation Agency)	
City of Petaluma	
Las Gallinas Valley Sanitary District (LGVSD)	
Napa Sanitation District	
San Francisco International Airport (SFIA) (City and Co of SF on TR)	
San Mateo WWTP	
Wave 4	
Silicon Valley Clean Water (formerly South Bayside System Authority)	Week of 5/1/2016
Sewerage Agency of Southern Marin (SASM) (Mill Valley on TR)	
Sonoma County Water Agency (SCWA)	
Sausalito/Marin City Sanitary District (S/MCSD)	
EBDA (East Bay Dischargers Authority) City of San Leandro	
City of Millbrae	
City of Richmond WCA (West County Agency)	
West County Wastewater District WCA (West County Agency)	
Pinole/ Hercules	

Name of Respondent	<name>
Utility Name	<utility>
Phone Number	<phone>

BACWA Recycled Water Projections

Data Priority color scheme

Green = Required/Essential
 Straw = Would like to have numbers
 White = Text input

Agency		Current	Future	Future	Future	Future	Future
Year		2015	2020	2025	2030	2035	2040
Current and Projected Future Amount of Recycled Water by Uses (Acre-Feet)							
Total							
Wet Season (October 1 - April 30)							
Dry Season (May 1 - September 30)							
Landscape							
Commercial							
Industrial							
Agricultural							
Environment Enhancement							
Internal Use							
Truck Fill Program							
Groundwater Recharge							
Other (please describe)							
Flow returned to WWTP? (e.g., brine)							
Nature of return flow							
Notes							
Level of Confidence in Current and Projected Recycled Water Uses (Percentage)							
Total							
Wet Season (October 1 - April 30)							
Dry Season (May 1 - September 30)							
Landscape							
Commercial							
Industrial							
Agricultural							
Environment Enhancement							
Internal Use							
Truck Fill Program							
Groundwater Recharge							
Other (please describe)							
Flow returned to WWTP? (e.g., brine)							
Nature of return flow							