Jacobson, Dana

From: Jacobson, Dana
Sent: Tuesday, March 29, 2011 11:57 AM
To: 'Jeanette Thomas'
Cc: 'jyoshimura@sewd.net'; 'BobYoung@KennedyJenks.com'
Subject: RE: Revised Table 18

Hi Jeannette,

I spoke with John Yoshimura this morning and he suggested that you may be able to answer a few questions about your groundwater banking efforts prior to your return. As you know, our public review draft is scheduled to be available on April 1, this Friday. I think I can make some reasonable assumptions about our reliability with some more information about how your groundwater banking program works. I have a few questions:

- As far as your plans to pump groundwater during a shortage goes, would you only pump the quantity that you previously banked, or would you ever consider (except in extreme emergencies) increasing pumping above this amount?
- Will you have the well capacity to produce the amounts shown in the later years, or would there be a cap based on your planned facilities?
- Have you included expected groundwater bank withdrawals on an annualized basis into your bank projections?

If a drought happened which required pulling from the bank in the next ten years or so, the amount previously stored would be completely used up, assuming that you would supplement surface water in this way, thereby limiting total supply from SEWD. Of course, retail agencies would pump as necessary. As time goes on you are showing a great deal of banked groundwater, so much that you would be limited by the treatement plant capacity. I am wondering how much of this would actually be available in any given year.

I realize that these are not easy questions to answer. Perhaps we should have a call when you get back. We plan on showing 100% reliability, assuming that any shortfall in treated water from SEWD would be made up for with pumping groundwater using Cal Water wells, with the caveat that we would request reductions in use from our customers. The only question is what proportion these supplies make up. I'm not sure that anyone will have a beef with us changing numbers after our public review goes out, but it would be nice to have it as close to final as possible. Thanks again with all your help on this.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Wednesday, March 23, 2011 2:10 PM
To: Jacobson, Dana
Subject: RE: Revised Table 18

Dana,
I tend to agree with you now that I see both tables side by side. Currently we are doing an internal review. I want comments from others here. I will talk this over with Bob again. Next week I am on vacation, and we should have something when I get back – April 4. Thanks for all the analysis. Having all these eyes on the report really makes it better.

We should have an answer soon.
Jeanette

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Wednesday, March 23, 2011 12:58 PM
To: Jeanette Thomas; BobYoung@KennedyJenks.com
Subject: RE: Revised Table 18

Jeanette and Bob,

I apologize but I think I may have led you astray with my thinking about your reliability section of the UWMP. You may have had it right the first time. Humor me for a minute here but I am proposing another change.

Your total supply allocated to urban customers is 77,360 AFY. In a normal year this would be your supply (perhaps minus the 3,360 AF banked groundwater which you wouldn't be using anyways). But of course you are limited by the capacity of the TP, so using the lower number makes sense.

For the single dry and multiple dry years my feeling is that we should be reducing from the total supply amount first, then adding banked groundwater, then checking where we are as far as treatment plant capacity goes, because the treatment plant capacity doesn't change with respect to hydrologic conditions. Under the method I proposed yesterday this is how it appears, which I think is incorrect.

In a single dry year, if you reduced your supply by 50%, you would be reducing from the 74,000 AF of surface water and not from TP capacity, giving you a total supply of 40,360 (37,000 from surface water and 3,360 from banked GW).

For the multiple dry years the UWMP states that you assume 75% of normal supply. It's not clear to me where this is used, but if applied to the 74,000 AF it would be 55,000 AF for surface water plus 3,360 for banked GW for a total of 58,360 AF in the first year. Again, you would be limited by your TP capacity in the first year. I'm not sure if maybe you are assuming normal supply in the first year due to carryover storage in the reservoirs? In the second year, you have a 57% reduction in surface water (based on 1989-1991 sequence), resulting in 42,180 AF plus 3,360 AF groundwater. For the third year there is a 38% reduction in surface water giving you 28,120 AF plus 3,360 AF groundwater.

Now, I realize that there are many ways to skin a cat. These things can be interpreted in many ways. Because we have 24 different service districts I've seen a lot of wholesale and retail UWMPs and there is a lot of variation. If you would like to discuss this by telephone I would be happy to. I think what I'll do is give you the assumtptions we will make about your supply in our UWMP and you can decide if they make sense for you. Here is my plan for the normal, single dry, and multiple dry year analysis in our UWMP:

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Multi-Dry year 3: 38% of normal surface water = 28,120 AF + 3,360 AF GW = 31,480 AF

Again, I'm sorry for the confusion. Please feel free to give me a call with any questions.

Dana

Dana Jacobson

Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Tuesday, March 22, 2011 4:01 PM
To: Jacobson, Dana
Subject: RE: Revised Table 18

Dana,
Thanks I will pass this on to KJ. Yes we do have your conservation master plan.

Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Tuesday, March 22, 2011 2:54 PM
To: Jeanette Thomas
Cc: BobYoung@KennedyJenks.com
Subject: RE: Revised Table 18

Jeanette,

I have attached some revised data for you to use in your Draft UWMP. I don't know what we changed but the population and water demands are slightly different from the data I provided earlier. I think what happened is that we had a huge rebound in active services this year (which we use to estimate population) and we had to adjust a few things. The water demand numbers represent our target demand, including conservation savings, as calculated under SBx7-7. Please also note that our 10-yr baseline per capita water use will be calculated using 1996-2005 data, which results in an average of 182 gpcd. I am assuming that you already have a draft of our conservation master plan. This report details these calculations in excruciating detail, and can be used as a reference as well. But really, if you have any questions just give me a call because it likely will be easier for me to explain it.

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From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Tuesday, March 22, 2011 11:52 AM

To: Jacobson, Dana
Subject: RE: Revised Table 18

Dana,
No thanks for bringing it to our attention. It is better to do it now then before it goes out to public comment.

Thanks
Jeanette

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Tuesday, March 22, 2011 9:01 AM
To: Jeanette Thomas
Subject: RE: Revised Table 18

Jeanette,

Thanks for thinking this through with me. I didn't intend to force a change in your methodology, I was just noticing an inconsistency that I didn't quite understand. If you have a good reason to use the higher number please do so. Otherwise I will go with what you have here. I will also double check the data (population, water demands, etc) relating to Cal Water to make sure you have the most up to date information. We tried our best to not change anything but slight tweaks always seem to be inevitable.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Tuesday, March 22, 2011 8:52 AM
To: Jacobson, Dana
Subject: Revised Table 18

Dana,
Sorry hit the wrong button. Table 18 was revised.

Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

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Jacobson, Dana

From: Jeanette Thomas [jrthomas@sewd.net]
Sent: Monday, October 18, 2010 1:34 PM
To: Jacobson, Dana
Cc: Moilan, Ross; Robert Granberg; Bob Young
Subject: RE: Urban Water Management Plan 2010 update

Dana,
I spoke with Ross last week or so about changes in the UWMP. As you know, the state finally decided to give wholesalers until July to submit their plans. Good because we can do a better job on the 20% reduction by 2020 planning. We will be putting Cal Water and the City's numbers in and supporting your approaches to achieving this reduction. My request is that you provide us with that information as soon as it is complete for your plan. Our plan is almost complete except for this area. I know you are working on it. Just wanted to let you know we are now going to incorporate this part of your plan into ours, so we are waiting for your information.

Thanks for the help.
Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Monday, July 26, 2010 9:38 AM
To: Jeanette Thomas
Subject: RE: Urban Water Management Plan 2010

Hi Jeanette,

I just wanted to let you know that I got your email last week and will begin to prepare the information you need as soon as possible. If there is a date that you absolutely need this by please let me know and I'll speed the process along. We are currently reviewing and revising our water demand projections for each customer type. We have also begun an updated draft of our Water Shortage Contingency Plan and are scheduled to begin an internal review inthe next couple of weeks. I'm not sure if you'll want to see this also. Being an investor owned utility our enforcement powers are limited so we may have to defer to the City for certain aspects of it. But I think you'll find it an improvement over our last one. Also, we are in the middle of a large project to prepare Conservation Master Plans fo each of our service districts, which will chart our course for future conservation efforts. But unfortunately they won't be complete in time to be included in your UWMP. However, we will provide a list of DMM's that are currently in place.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Tuesday, July 20, 2010 3:53 PM
To: Robert Granberg; Moilan, Ross; rrall@sjgov.org; Jacobson, Dana
Cc: Bob Young
Subject: Urban Water Management Plan 2010

Gentlemen:
As a wholesaler our UWMP is due in December and I need this information to complete the plan. I want our plans to be saying the same to the extent possible. I need your help.

Information requested:

- Update Past, Current and Projected Water Demand by customer type to 2035. See attached from 2005 UWMP (City of Stockton, Cal Water and SJC – Ron can you break out your demand similar to COS and Cal Water? Thanks.)
- Update on the wastewater collection and treatment system and quantities collected and treated. (City of Stockton) See attached from 2005 UWMP.
- Update on recycled water plan including current and proposed recycled water use for 2010 through 2035. (City of Stockton) See attached from 2005 UWMP.
- Update of currently implemented DMMs. (City of Stockton and Cal Water) See attached from 2005 UWMP.

In addition we are updating our water shortage contingency plan. I need the current stages of action, prohibitions, penalties and consumption reductions implemented by the City as well as any ordinances and monitoring procedures used. Bob, I think I have heard you say you are redoing these?

I may have more requests for information, but at the moment this is it.

Thanks,
Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

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Jacobson, Dana

From: Jeanette Thomas [jrthomas@sewd.net]
Sent: Tuesday, August 10, 2010 4:05 PM
To: Jacobson, Dana
Cc: Salzano, Tom; Moilan, Ross; Bolzowski, Michael R.
Subject: RE: Urban Water Management Plan 2010

Dana,
Thanks, I will get this info off to our consultant. Hope we don't have more questions for you. There will be the draft to review of course. Thanks again for getting this done so quickly.

Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Tuesday, August 10, 2010 3:43 PM
To: Jeanette Thomas
Cc: Salzano, Tom; Moilan, Ross; Bolzowski, Michael R.
Subject: RE: Urban Water Management Plan 2010

Hi Jeanette,

Here is the information that you requested for your UWMP. The demand projections are based on our average demand scenario, which looks at past customer use in each category. I also included an alternative projection meant to show minimum compliance with SB-7. This projection was calculated on a per capita basis and can't be broken down into customer categories.

For the DMMs there are some notes in the pdf file with suggested language about our current conservation programs. As I mentioned before, we will not have a more complete plan for future conservation or an updated Water Shortage Contingency Plan until later this year. If you have any questions about this information please let me know.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Tuesday, July 20, 2010 3:53 PM

Jacobson, Dana

From: Jeanette Thomas [jrthomas@sewd.net]

Sent: Tuesday, July 20, 2010 3:53 PM

To: Robert Granberg; Moilan, Ross; rrall@sjgov.org; Jacobson, Dana

Cc: Bob Young

Subject: Urban Water Management Plan 2010

Attachments: Table 10.pdf; Recycled Water.pdf; DMMs.pdf; Water Recylcing and Waste Water.pdf; Waste Water and Recycled Water Use.pdf

Gentlemen:
As a wholesaler our UWMP is due in December and I need this information to complete the plan. I want our plans to be saying the same to the extent possible. I need your help.

Information requested:

- Update Past, Current and Projected Water Demand by customer type to 2035. See attached from 2005 UWMP (City of Stockton, Cal Water and SJC – Ron can you break out your demand similar to COS and Cal Water? Thanks.)
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In addition we are updating our water shortage contingency plan. I need the current stages of action, prohibitions, penalties and consumption reductions implemented by the City as well as any ordinances and monitoring procedures used. Bob, I think I have heard you say you are redoing these?

I may have more requests for information, but at the moment this is it.

Thanks,
Jeanette R. Thomas
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P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

Jacobson, Dana

From: Jeanette Thomas [jrthomas@sewd.net]
Sent: Monday, May 03, 2010 9:43 AM
To: Jacobson, Dana
Subject: RE: 2010 UWMP

Dana,
I know we will be talking. We will definitely need some info and coordination with the retailers for the UWMP.

Thanks,
Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Monday, May 03, 2010 8:41 AM
To: Jeanette Thomas
Subject: 2010 UWMP

Hi Jeanette,

Thanks for returning my call about the next round of UWMPs. Please keep my up to date with any info that may effect our Plan. If you end up having any retailer coordination meetings specifically for the UWMP I'll be happy to attend. Also, if you need any data from us please feel free to contact me directly, although I'm sure Ross could provide it too. Thanks again.

Dana

Dana Jacobson
Water Resources and Planning Department
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

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Jacobson, Dana

From: Kevin Kauffman [KKauffman@sewd.net]
Sent: Tuesday, April 05, 2011 11:44 AM
To: Jacobson, Dana; Jeanette Thomas
Cc: John Yoshimura
Subject: RE: Revised Table 18

I agree that this approach would be reasonable

Kevin Kauffman
SEWD
(209) 948-0333
(209) 969-1175

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Tuesday, April 05, 2011 11:38 AM
To: Kevin Kauffman; Jeanette Thomas
Cc: John Yoshimura
Subject: RE: Revised Table 18

Thanks Kevin,

I would like clarification on one thing. From your response, it appears that SEWD would only draw from the groundwater bank (with your facilities) if your available surface water was below 20,000 AF as required by the contract. This seems reasonable, but I wanted to double check. Thanks.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Kevin Kauffman [mailto:KKauffman@sewd.net]
Sent: Tuesday, April 05, 2011 10:47 AM
To: Jeanette Thomas
Cc: Jacobson, Dana; John Yoshimura
Subject: RE: Revised Table 18

Dana,

I apologize for not getting back to you by Friday. Jeanette was off last week, and I told her that I would help her with this but failed. Here are my responses to your question. I hope they are useful.

- As far as your plans to pump groundwater during a shortage goes, would you only pump the quantity that you previously banked, or would you ever consider (except in extreme emergencies) increasing pumping above this amount? SEWD is not be limited in pumping the water it puts into the ground or groundwater.

SEWD intends to comply with the laws governing such pumping.

- Will you have the well capacity to produce the amounts shown in the later years, or would there be a cap based on your planned facilities? The estimates shown in the SEWD UWMP reflect the level of development of its groundwater recovery system that it intends to have in operation at that time.
- Have you included expected groundwater bank withdrawals on an annualized basis into your bank projections? The projections shown indicate capacity in any given year, not the annualized capacity over any other period of time.

If a drought happened which required pulling from the bank in the next ten years or so, the amount previously stored would be completely used up, assuming that you would supplement surface water in this way, thereby limiting total supply from SEWD. Of course, retail agencies would pump as necessary. As time goes on you are showing a great deal of banked groundwater, so much that you would be limited by the treatement plant capacity. I am wondering how much of this would actually be available in any given year. Groundwater is intended to supplement surface water supplies. SEWD currently has no intention to (and may never) use groundwater when adequate surface water is available. SEWD has a contract with Cal Water, the City and the County to provide a minimum of 20,000 AFA of treated drinking water. Any obligation for SEWD to provide more than this amount has not been documented. SEWD currently provides over 50,000 AFA under this contract.

Please call or email any other questions; thanks,

Kevin Kauffman
SEWD
(209) 948-0333
(209) 969-1175

From: Jeanette Thomas
Sent: Tuesday, March 29, 2011 7:34 PM
To: Kevin Kauffman
Subject: Fwd: Revised Table 18

Kevin,
I am not sure I have all the answers to the questions Dana is asking. Dana is the person at CalWater working on their UWMP. I need your help to respond.
Jeanette

Sent from my iPhone

Begin forwarded message:

> **From:** "Jacobson, Dana" <djacobson@calwater.com>
> **Date:** March 29, 2011 11:56:32 AM PDT
> **To:** Jeanette Thomas <jrthomas@sewd.net>
> **Cc:** John Yoshimura <JYoshimura@sewd.net>, "BobYoung@KennedyJenks.com" <BobYoung@KennedyJenks.com>
> **Subject: RE: Revised Table 18**
>
> Hi Jeannette,
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I realize that these are not easy questions to answer. Perhaps we should have a call when you get back. We plan on showing 100% reliability, assuming that any shortfall in treated water from SEWD would be made up for with pumping groundwater using Cal Water wells, with the caveat that we would request reductions in use from our customers. The only question is what proportion these supplies make up. I'm not sure that anyone will have a beef with us changing numbers after our public review goes out, but it would be nice to have it as close to final as possible. Thanks again with all your help on this.

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Dana

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From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Tuesday, March 22, 2011 9:01 AM

To: Jeanette Thomas
Subject: RE: Revised Table 18

Jeanette,

Thanks for thinking this through with me. I didn't intend to force a change in your methodology, I was just noticing an inconsistency that I didn't quite understand. If you have a good reason to use the higher number please do so. Otherwise I will go with what you have here. I will also double check the data (population, water demands, etc) relating to Cal Water to make sure you have the most up to date information. We tried our best to not change anything but slight tweaks always seem to be inevitable.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Tuesday, March 22, 2011 8:52 AM
To: Jacobson, Dana
Subject: Revised Table 18

Dana,
Sorry hit the wrong button. Table 18 was revised.

Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

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Jacobson, Dana

From: Kelly Stephens [KStephens@sewd.net]
Sent: Wednesday, April 06, 2011 3:14 PM
To: Moilan, Ross; Jacobson, Dana; mlytle@sjgov.org; robert.granberg@ci.stockton.ca.us; swinkler@sjgov.org; Jeff Willett (Jeff.Willett@ci.stockton.ca.us)
Cc: John Green; Jeanette Thomas; Kevin Kauffman; Kristin Carido
Subject: 2010 Urban Water Management Plan - Notice of Intent
Attachments: UWMP-Notice of Intent.pdf

Attached is Stockton East Water District's Notice of Intent to adopt an Urban Water Management Plan and to hold a Public Meeting to receive comments on the proposed Plan. If you have any questions or need additional information please contact Jeanette Thomas at (209)948-0333 or jrthomas@sewd.net.

Thanks,

Kelly Stephens, Office Manager
Stockton East Water District
P O Box 5157
Stockton CA 95205
(209)948-0333 Phone
(209)948-0423 Fax
kstephens@sewd.net

Jacobson, Dana

From: Robert Granberg [Robert.Granberg@ci.stockton.ca.us]
Sent: Monday, May 09, 2011 1:11 PM
To: Jacobson, Dana
Cc: Moilan, Ross; Salzano, Tom; Melissa Price
Subject: RE: Stockton UWMP Public Meeting

Thanks, Dana. I'll work up some comments, probably after our SAWS meeting on the 23rd.

Bob

>>> "Jacobson, Dana" <djacobson@calwater.com> 5/9/2011 1:04 PM >>>

Bob,

Sure. Here you go. Thanks again for coming. We look forward to your comments.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Robert Granberg [mailto:Robert.Granberg@ci.stockton.ca.us]
Sent: Monday, May 09, 2011 11:40 AM
To: Jacobson, Dana
Cc: Moilan, Ross; Salzano, Tom; Melissa Price
Subject: Stockton UWMP Public Meeting

Dana,

In an effort to document our participation in your UWMP, can I get a copy of the sign-in sheet from the meeting last week?

A scan by email would be great!

Thanks,

Bob

Robert Granberg, P.E., Deputy Director, Water Resources Planning
City of Stockton, Municipal Utilities Department
11373 N. Lower Sacramento Road
Lodi, CA 95242
209.937.8779/209.365.4638 Fax

robert.granberg@ci.stockton.ca.us

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Jacobson, Dana

From: Jeanette Thomas [jrthomas@sewd.net]
Sent: Wednesday, March 23, 2011 2:10 PM
To: Jacobson, Dana
Subject: RE: Revised Table 18

Dana,
I tend to agree with you now that I see both tables side by side. Currently we are doing an internal review. I want comments from others here. I will talk this over with Bob again. Next week I am on vacation, and we should have something when I get back – April 4. Thanks for all the analysis. Having all these eyes on the report really makes it better.

We should have an answer soon.
Jeanette

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Wednesday, March 23, 2011 12:58 PM
To: Jeanette Thomas; BobYoung@KennedyJenks.com
Subject: RE: Revised Table 18

Jeanette and Bob,

I apologize but I think I may have led you astray with my thinking about your reliability section of the UWMP. You may have had it right the first time. Humor me for a minute here but I am proposing another change.

Your total supply allocated to urban customers is 77,360 AFY. In a normal year this would be your supply (perhaps minus the 3,360 AF banked groundwater which you wouldn't be using anyways). But of course you are limited by the capacity of the TP, so using the lower number makes sense.

For the single dry and multiple dry years my feeling is that we should be reducing from the total supply amount first, then adding banked groundwater, then checking where we are as far as treatment plant capacity goes, because the treatment plant capacity doesn't change with respect to hydrologic conditions. Under the method I proposed yesterday this is how it appears, which I think is incorrect.

In a single dry year, if you reduced your supply by 50%, you would be reducing from the 74,000 AF of surface water and not from TP capacity, giving you a total supply of 40,360 (37,000 from surface water and 3,360 from banked GW).

For the multiple dry years the UWMP states that you assume 75% of normal supply. It's not clear to me where this is used, but if applied to the 74,000 AF it would be 55,000 AF for surface water plus 3,360 for banked GW for a total of 58,360 AF in the first year. Again, you would be limited by your TP capacity in the first year. I'm not sure if maybe you are assuming normal supply in the first year due to carryover storage in the reservoirs? In the second year, you have a 57% reduction in surface water (based on 1989-1991 sequence), resulting in 42,180 AF plus 3,360 AF groundwater. For the third year there is a 38% reduction in surface water giving you 28,120 AF plus 3,360 AF groundwater.

Now, I realize that there are many ways to skin a cat. These things can be interpreted in many ways. Because we have 24 different service districts I've seen a lot of wholesale and retail UWMPs and there is a lot of variation. If you would like to discuss this by telephone I would be happy to. I think what I'll do is give you the assumtptions we will make about your supply in our UWMP and you can decide if they make sense for you. Here is my plan for the normal, single dry, and multiple dry year analysis in our UWMP:

Normal Year: 74,000 AF surface water, limited to treatment plant capacity, groundwater is not included
Single Dry: 50% of surface water = 37,000 AF + 3,360 AF banked groundwater = 40,360 AF

Multi-Dry Year 1: 75% of surface water = 55,000 AF + 3,360 GW = 58,360 AF but limited to TP capacity
Multi-Dry Year 2: 57% of normal surface water = 42,180 AF + 3,360 AF GW = 45,540 AF
Multi-Dry year 3: 38% of normal surface water = 28,120 AF + 3,360 AF GW = 31,480 AF

Again, I'm sorry for the confusion. Please feel free to give me a call with any questions.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Tuesday, March 22, 2011 4:01 PM
To: Jacobson, Dana
Subject: RE: Revised Table 18

Dana,
Thanks I will pass this on to KJ. Yes we do have your conservation master plan.

Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Tuesday, March 22, 2011 2:54 PM
To: Jeanette Thomas
Cc: BobYoung@KennedyJenks.com
Subject: RE: Revised Table 18

Jeanette,

I have attached some revised data for you to use in your Draft UWMP. I don't know what we changed but the population and water demands are slightly different from the data I provided earlier. I think what happened is that we had a huge rebound in active services this year (which we use to estimate population) and we had to adjust a few things. The water demand numbers represent our target demand, including conservation savings, as calculated under SBx7-7. Please also note that our 10-yr baseline per capita water use will be calculated using 1996-2005 data, which results in an average of 182 gpcd. I am assuming that you already have a draft of our conservation master plan. This report details these calculations in excruciating detail, and can be used as a reference as well. But really, if you have any questions just give me a call because it likely will be easier for me to explain it.

Dana

Dana Jacobson
Water Resources Planning

California Water Service Company
1720 North First Street
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Phone: (408) 367-8361

From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Tuesday, March 22, 2011 11:52 AM
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Dana,
No thanks for bringing it to our attention. It is better to do it now then before it goes out to public comment.

Thanks
Jeanette

From: Jacobson, Dana [mailto:djacobson@calwater.com]
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P.O. Box 5157
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209-948-0333 (Office)
209-969-7395 (Cell)

Jacobson, Dana

From: Jeanette Thomas [jrthomas@sewd.net]
Sent: Tuesday, March 22, 2011 8:52 AM
To: Jacobson, Dana
Subject: Revised Table 18
Attachments: SEWD_2010_UWMP 3222011.pdf

Dana,
Sorry hit the wrong button. Table 18 was revised.

Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

Jacobson, Dana

From: Jacobson, Dana
Sent: Monday, March 21, 2011 11:51 AM
To: 'Jeanette Thomas'
Subject: RE: Draft UWMP

Great. Thanks so much Jeanette.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Monday, March 21, 2011 10:57 AM
To: Jacobson, Dana
Subject: FW: Draft UWMP

Dana,
OK here is our draft UWMP. It has not yet gone out for public comment but will be soon. Sorry it took so long to get it to you and hope you find what you need in here. Call if I can be of more help.

Thanks,
Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

From: Bob Young [mailto:BobYoung@KennedyJenks.com]
Sent: Monday, March 21, 2011 9:40 AM
To: Jeanette Thomas
Subject: Draft UWMP

I am now trying to send you this Word document. ...

Jacobson, Dana

From: Jeanette Thomas [jrthomas@sewd.net]
Sent: Wednesday, March 16, 2011 3:51 PM
To: Jacobson, Dana
Subject: RE: Draft UWMP

Dana,
No way are you being a pest. Thank you for your reminders.

We should have the draft no later than next week. As soon as I get it I will have it put on the share point and you can get a copy. Sorry it has taken so long. As I said the section you are interested in is the one we did the most rework on. I promise as soon as I get it I will get you a copy.

Thanks,
Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Tuesday, March 15, 2011 1:57 PM
To: Jeanette Thomas
Subject: RE: Draft UWMP

Hi Jeanette,

I hate to be a pest but I'm writing to inquire about the reliability section of your UWMP again. Our UWMP will be available for public review on April 1, 2011. Our hope was to have it complete by this time. We also need to give Ross ample time to review it. Do you have a schedule for the release of your Draft UWMP?

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Jeanette Thomas [mailto:jrthomas@sewd.net]
Sent: Tuesday, February 22, 2011 9:28 AM
To: Jacobson, Dana
Subject: RE: Draft UWMP

Dana,
We have sent our comments off to our consultant and should have the draft ready for review by the urban

contractors very soon. The comments will require some rework of the section you are interested in. I will make sure you get a copy as soon as it is ready. Sorry it is taking so long but you know how these things go.

Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Friday, February 18, 2011 3:41 PM
To: Jeanette Thomas
Subject: Draft UWMP

Hi Jeanette,

I'm following up on last week's phone conversation. Have you had a chance to do an internal review of your Draft UWMP? I know you just got it yourself but I am interested in how you will be handling the reliability section (normal, single dry, and multiple dry years).

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

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Jacobson, Dana

From: Jacobson, Dana
Sent: Tuesday, October 26, 2010 10:37 AM
To: 'Bob Young'
Cc: 'Jeanette Thomas'; Jenkins, Ken
Subject: Cal Water Stockton SB 7 targets and methodology
Attachments: CWS_STK_SB7.xls

Hi Bob,

For our Stockton district we are using SB 7 targets that represent 95% of the hydrologic region target. The 2015 interim target is 182.4 gpcd and the 2020 target is 165.3 gpcd. For the demand projections in the attached spreadsheet you'll notice that we I used a value of 170 gpcd to calculate projected demands in 2015. I did this because we are already below the 2015 target, and to spread the savings evenly across the ten year period rather than having a line that slopes awkwardly between 2015 and 2020. Let me know if you need anything else.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Bob Young [mailto:BobYoung@KennedyJenks.com]
Sent: Tuesday, October 26, 2010 9:24 AM
To: Jacobson, Dana
Subject:

Did you get this?

Robert F. Young | Vice President
Kennedy/Jenks Consultants - Sacramento Office
10860 Gold Center Drive, Suite 350 | Rancho Cordova, CA 95670
P: 916.858-2733 | F: 916.858-2754 | C: 916.849-3260

MAILED
April 1, 2011

NOTICE OF INTENT TO ADOPT
AN URBAN WATER MANAGEMENT PLAN
AND
HOLD A PUBLIC MEETING
TO
RECEIVE COMMENTS ON THE PROPOSED PLAN

CALIFORNIA WATER SERVICE COMPANY
STOCKTON DISTRICT

REMINDER MESSAGE

The Proposed Urban Water Management Plan is now available for review during normal business hours at the Stockton District Customer Service Center, located at 1550 W. Fremont Street, Stockton CA 95203.

It is preferred that prior arrangements be made with the district's management for viewing the Proposed Urban Water Management Plan. These arrangements can be made by calling (209) 547-7900.

Cal Water has placed the Stockton UWMP on an FTP site, where City and County officials may access any portion of the plan for review. The site can be accessed at http://calwater.ftptoday.com ;
the user name is **cwsftp30** and the password is **Nep1une**.
The UWMP will be available at this FTP site on or about April 1, 2011 through June 15, 2011.

The Public Meeting to receive comments on the Proposed Urban Water Management Plan will be held on May 5, 2011, from 5:30 p.m. to 7:30 p.m., at Cal Water's Stockton District Operations Center, which is located at 1602 East Lafayette Street, Stockton CA 95205.

If you are unable to attend the scheduled public meeting but want to provide comments regarding the proposed UWMP, you may send your comments in writing via mail or email to:

Thomas A. Salzano, Water Resource Planning Supervisor
California Water Service Company
1720 North First Street
San Jose, CA 95112-4598
tsalzano@calwater.com

Cal Water will receive comments on the proposed UWMP from April 1, 2011 through June 15, 2011.

MAILED
March 3, 2011

NOTICE OF INTENT TO ADOPT
AN URBAN WATER MANAGEMENT PLAN
AND
HOLD A PUBLIC MEETING
TO
RECEIVE COMMENTS ON THE PROPOSED PLAN

CALIFORNIA WATER SERVICE COMPANY
STOCKTON DISTRICT

California Water Code, Part 2.6 Chapters 1 through 4 (Sections 10610 through 10656), are known and may be cited as the "Urban Water Management Planning Act."

These California Water Code sections require all urban water suppliers that provide water for municipal purposes either directly or indirectly to more than 3,000 customers or supply more than 3,000 acre-feet of water annually to prepare an Urban Water Management Plan as outlined and identified in those sections. This requirement applies to public and privately owned water utilities.

The plan must describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation, and demand management activities. The components of the plan may vary according to an individual community or area's characteristics and its capabilities to efficiently use and conserve water. The plan must address measures for residential, commercial, governmental, and industrial water demand management.

The act requires urban water suppliers to update their Urban Water Management Plans at least once every five years, and to file updated plans with the Department of Water Resources, the California State Library, and any city or county served by the supplier no later than 30 days after adoption.

California Water Service Company (Cal Water) is an investor-owned public utility providing water service throughout California. In addition, Cal Water is regulated by the California Public Utilities Commission (CPUC).

One of Cal Water's service areas is the Stockton District, which is located in San Joaquin County. The Stockton District serves a portion of the City of Stockton and segments of unincorporated San Joaquin County.

As a defined urban water supplier, Cal Water is preparing an update to its Urban Water Management Plan that will address the water service conditions in the Stockton District. It is Cal Water's intent to adopt that plan and file that plan as required with the Department of Water Resources, the California State Library, and any city or county within which Cal Water provides service.

A key focus of this UWMP update is the conservation requirement set forth in Senate Bill 7 (SBx7-7) as passed in November 2009. SBx7-7 mandates a statewide 20% reduction in per capita urban water use by 2020. In order to quantify the objectives and identify the means of achieving this mandated demand reduction, Cal Water has prepared a Conservation Master Plan.

Cal Water is in the process of expanding current conservation programs and developing new programs for its 24 districts. Over the next five years, Cal Water conservation program expenditures are likely to increase, due in large measure to recently adopted state policies requiring future reductions in per capita urban water use. These state policies include SBx7-7, as well as recent decisions by the California Public Utilities Commission (CPUC) directing Class A and B water utilities to adopt conservation programs and rate structures designed to achieve reductions in per capita water use, as well as the *Memorandum of Understanding Regarding Urban Water Conservation in California* (MOU), of which Cal Water has been a signatory since 1991.

The Conservation Master Plan for the Stockton District will be presented to the Cities, Counties and public served by Cal Water's Stockton District in conjunction with the UWMP.

Schedule of upcoming actions:

On or about April 1, 2011, a copy of the Proposed Urban Water Management Plan and the Conservation Master Plan will be available for review during normal business hours at the Stockton District Customer Service Center, located at 1550 W. Fremont Street, Stockton CA 95203.

It is preferred that prior arrangements be made with the district's management for viewing the Proposed Urban Water Management Plan and/or the Conservation Master Plan. These arrangements can be made by calling (209) 547-7900.

As an alternative to reviewing the Proposed Urban Water Management Plan or Conservation Master Plan in Cal Water's Stockton District Customer Service Center, Cal Water will make an electronic copy of the Proposed Urban Water Management Plan available on or about April 1, 2011.

It is Cal Water's intent to place the Stockton UWMP on an FTP site, where City and County officials may access any portion of the plan for review. The site can be accessed at http://calwater.ftptoday.com ;
the user name is **cwsftp30** and the password is **Nep1une**.

The UWMP will be available at this FTP site on or about April 1, 2011 through June 15, 2011.

Cal Water will receive comments on the proposed UWMP and the Conservation Master Plan from April 1, 2011 through June 15, 2011.

If there are issues with accessing the electronic copy, you may contact Michael Bolzowski at the company's headquarters at 1720 North First Street, San Jose, California 95112-4598, by calling (408) 367-8200, or by email at mbolzowski@calwater.com.

The Public Meeting to receive comments on the Proposed Urban Water Management Plan and the Conservation Master Plan will be held on May 5, 2011, from 5:30 p.m. to 7:30 p.m., at Cal Water's Stockton District Operations Center Conference Room, which is located at 1602 East Lafayette Street, Stockton CA 95205.

If you are unable to attend the scheduled public meeting but want to provide comments regarding the proposed UWMP, you may send your comments in writing via mail to:

Thomas A. Salzano, Water Resource Planning Supervisor
California Water Service Company
1720 North First Street
San Jose, CA 95112-4598

Or by email to him at tsalzano@calwater.com

Comments regarding the Conservation Master Plan for Stockton should be sent to:

Kenneth G. Jenkins, Conservation Manager
California Water Service Company
2632 West 237th Street
Torrance, CA 90505

Or by email at kjenkins@calwater.com

If there were any errors in the address to which notice was sent, please send corrections to Tom Salzano at the above address so that we can update our information.

Also, please share this with others on your staff that may have the need to know.

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May 20, 2008

City of Stockton Planning Division
Michael Niblock, Director
425 N. El Dorado Street
Stockton, CA 95205

Dear Mr. Niblock,

California Water Service Company (Cal Water) is in the process of preparing an update to the current Urban Water Management Plan (UWMP) for the Stockton District as a part of its 2009 Public Utilities Commission General Rate Case filing. This UWMP will serve as a long term planning document for water supply and can be an important source of information for city and county General Plans.

Cal Water will file the complete updated Plan with the Department of Water Resources in 2010. We are requesting your participation in the updating of this Plan and are seeking comments on the previous version, which was completed and sent to you in 2007.

We intend to address these comments prior to the normal review period, which occurs in the second quarter of 2009. This will facilitate preparation of the final draft of the UWMP and insure that any issues have been resolved to the satisfaction of both our organizations. Please submit your comments by September 1, 2008 so that we have adequate time to address your concerns.

If necessary we are available for a meeting to discuss these concerns or to provide clarification on the contents of the Plan.

If you do not have a copy of the 2007 Stockton District UWMP we would be happy to provide one to you. Please send any comments or questions to my attention:

Thomas Salzano
Water Resources Planning Supervisor
1720 North First Street, San Jose, CA 95112
(408) 367-8340 (phone) (408) 367-8427 (fax)
tsalzano@calwater.com

Thank you for your time,

Thomas Salzano

Thomas A. Salzano
Water Resources Planning Supervisor

May 20, 2008

Stockton East Water District
Kevin Kaufman, General Manager
6767 East Main Street
Stockton, CA 95205

Dear Mr. Kaufman,

California Water Service Company (Cal Water) is in the process of preparing an update to the current Urban Water Management Plan (UWMP) for the Stockton District as a part of its 2009 Public Utilities Commission General Rate Case filing. This UWMP will serve as a long term planning document for water supply and can be an important source of information for city and county General Plans.

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Thomas Salzano
Water Resources Planning Supervisor
1720 North First Street, San Jose, CA 95112
(408) 367-8340 (phone) (408) 367-8427 (fax)
tsalzano@calwater.com

Thank you for your time,

Thomas Salzano

Thomas A. Salzano
Water Resources Planning Supervisor

Bolzowski, Michael R.

From: Salzano, Tom
Sent: Thursday, September 18, 2008 4:13 PM
To: Bolzowski, Michael R.; Jacobson, Dana
Subject: FW: Comments on 2007 UWMP
Attachments: Cal Water UWMP Comments.doc

And another set of comments
Tom

From: Kevin Kauffman [mailto:kkauffman@sewd.net]
Sent: Friday, June, 2008 15:13 PM
To: Salzano, Tom
Cc: Tom Gau; Steven Winkler; Ferraro, Stan; Robert Granberg; Mel Lytle; Mark Madison; Kevin M. Kauffman; Kelly Stephens; John Yoshimura; Simunovich, Jim; JEANETTE THOMAS; Anthony Barkett; Moilan, Ross
Subject: Comments on 2007 UWMP

Thomas,

Thanks for the opportunity to comment on your plan.

Attached is a table written primarily by Jeanette Thomas of our staff. I added my opinion to hers.

We would be interested in making further comments as drafts are produced.

Thanks,

Kevin M. Kauffman
Stockton East Water District
P.O. Box 5157
Stockton, CA 95205
(209) 948-0333 office
(209) 948-0423 fax
(209) 969-1175 mobile

Jacobson, Dana

From: Jacobson, Dana
Sent: Tuesday, October 26, 2010 10:37 AM
To: 'Bob Young'
Cc: 'Jeanette Thomas'; Jenkins, Ken
Subject: Cal Water Stockton SB 7 targets and methodology
Attachments: CWS_STK_SB7.xls

Hi Bob,

For our Stockton district we are using SB 7 targets that represent 95% of the hydrologic region target. The 2015 interim target is 182.4 gpcd and the 2020 target is 165.3 gpcd. For the demand projections in the attached spreadsheet you'll notice that we I used a value of 170 gpcd to calculate projected demands in 2015. I did this because we are already below the 2015 target, and to spread the savings evenly across the ten year period rather than having a line that slopes awkwardly between 2015 and 2020. Let me know if you need anything else.

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

From: Bob Young [mailto:BobYoung@KennedyJenks.com]
Sent: Tuesday, October 26, 2010 9:24 AM
To: Jacobson, Dana
Subject:

Did you get this?

Robert F. Young | Vice President
Kennedy/Jenks Consultants - Sacramento Office
10860 Gold Center Drive, Suite 350 | Rancho Cordova, CA 95670
P: 916.858-2733 | F: 916.858-2754 | C: 916.849-3260

Jacobson, Dana

From: Jeanette Thomas [jrthomas@sewd.net]
Sent: Monday, May 03, 2010 9:43 AM
To: Jacobson, Dana
Subject: RE: 2010 UWMP

Dana,
I know we will be talking. We will definitely need some info and coordination with the retailers for the UWMP.

Thanks,
Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Monday, May 03, 2010 8:41 AM
To: Jeanette Thomas
Subject: 2010 UWMP

Hi Jeanette,

Thanks for returning my call about the next round of UWMPs. Please keep my up to date with any info that may effect our Plan. If you end up having any retailer coordination meetings specifically for the UWMP I'll be happy to attend. Also, if you need any data from us please feel free to contact me directly, although I'm sure Ross could provide it too. Thanks again.

Dana

Dana Jacobson
Water Resources and Planning Department
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

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Jacobson, Dana

From: Jeanette Thomas [jrthomas@sewd.net]
Sent: Tuesday, February 22, 2011 9:28 AM
To: Jacobson, Dana
Subject: RE: Draft UWMP

Dana,
We have sent our comments off to our consultant and should have the draft ready for review by the urban contractors very soon. The comments will require some rework of the section you are interested in. I will make sure you get a copy as soon as it is ready. Sorry it is taking so long but you know how these things go.

Jeanette R. Thomas
Stockton East Water District
P.O. Box 5157
Stockton CA 95205
209-948-0333 (Office)
209-969-7395 (Cell)

From: Jacobson, Dana [mailto:djacobson@calwater.com]
Sent: Friday, February 18, 2011 3:41 PM
To: Jeanette Thomas
Subject: Draft UWMP

Hi Jeanette,

I'm following up on last week's phone conversation. Have you had a chance to do an internal review of your Draft UWMP? I know you just got it yourself but I am interested in how you will be handling the reliability section (normal, single dry, and multiple dry years).

Dana

Dana Jacobson
Water Resources Planning
California Water Service Company
1720 North First Street
San Jose, CA 95112
Phone: (408) 367-8361

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