LOS OSOS GROUNDWATER BASIN, BASIN MANAGEMENT COMMITTEE

NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that the Los Osos Groundwater Basin, Basin Management Committee Board of Directors will hold a **Board Meeting** at **1:30 P.M.** on **Wednesday, July 19, 2017** at the South Bay Community Center, 2180 Palisades Ave, Los Osos, CA, 93402**.**

Directors: Agenda items are numbered for identification purposes only and may not necessarily be considered in numerical order.

NOTE: The Basin Management Committee reserves the right to limit each speaker to three (3) minutes per subject or topic. In compliance with the Americans with Disabilities Act, all possible accommodations will be made for individuals with disabilities so they may attend and participate in meetings.

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS AGENDA

1. **CALL TO ORDER**

2. **PLEDGE OF ALLEGIANCE**

3. **ROLL CALL**

4. **BOARD MEMBER COMMENTS.** Board members may make brief comments, provide project status updates, or communicate with other directors, staff, or the public regarding non-agenda topics.

5. **CONSENT AGENDA**

   The following routine items listed below are scheduled for consideration as a group. Each item is recommended for approval unless noted and may be approved in their entirety by one motion. Any member of the public who wishes to comment on any Consent Agenda item may do so at this time. Consent items generally require no discussion. However, any Director may request that any item be withdrawn from the Consent Agenda and moved to the "Action Items" portion of the Agenda to permit discussion or to change the recommended course of action. The Board may approve the remainder of the Consent Agenda on one motion.

   a. **Approval of Minutes from May 17, 2017 and June 21, 2017 Meetings.**
   b. **Approval of Warrants, Budget Update and Invoice Register through June 2017.**

6. **EXECUTIVE DIRECTOR'S REPORT**

7. **ACTION ITEMS**

   a. **Update on Status of Basin Plan Infrastructure Projects**

      Recommendation: Receive report and provide input to staff for future action.

   b. **Options for Formation of a Conservation Subcommittee for Public Outreach**

      Recommendation: Review and consider options for the formation of a Conservation Subcommittee and direct staff to return with a resolution forming an ad hoc advisory subcommittee of the Committee composed of two (2) directors whose combined voting percentages total less than fifty percent (50%).

c. Cuesta by the Sea Lower Aquifer Monitoring Well

Recommendation: Receive report and provide input to staff for future action.

8. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA

The Basin Management Committee will consider public comments on items not appearing on the agenda and within the subject matter jurisdiction of the Basin Management Committee. The Basin Management Committee cannot enter into a detailed discussion or take any action on any items presented during public comments at this time. Such items may only be referred to the Executive Director or other staff for administrative action or scheduled on a subsequent agenda for discussion. Persons wishing to speak on specific agenda items should do so at the time specified for those items. The presiding Chair shall limit public comments to three minutes.

9. ADJOURNMENT

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS

Agenda Item 5a: Minutes of the Meeting of May 17th, 2017

Agenda Item	Discussion or Action
1. CALL TO ORDER **2. PLEDGE OF ALLIGANCE** **3. ROLL CALL**	Director Ochylski serving as chair called the meeting to order at 1:30pm and lead the Pledge of Allegiance. Mr. Miller, called roll to begin the meeting. Director Zimmer, Director Garfinkel, Director Alternative Hutchinson, and Chairperson Ochylski, were all present.
4. Board Member Comments	No Comments.
5a. Minutes of the Meeting of March 15th, 2017 **5b. Approval of Budget update and Invoice Register through April 30, 2017**	Acting Director Hutchinson: I'll abstain on those minutes as I was not here. <u>Public Comment</u> No public comment on consent agenda. Director Zimmer: Motion to approve consent agenda. Director Garfinkel: Second Vote for Consent Item 5a **Ayes: Directors: Ochylski, Zimmer, and Garfinkel.** **Nays: None** **Abstain: Alternative Hutchinson** **Absent: None** Vote for Consent Item 5b **Ayes: Directors: Ochylski, Zimmer, Garfinkel, and Hutchinson.** **Nays: None** **Abstain: None.** **Absent: None**
6. Executive Director's Report	Executive Director, Rob Miller, provided a verbal overview of the written content of the Executive Director's report. Director Zimmer: Just to clarify the GSA boundary and the adjudicated boundary they didn't line up? Mr. Miller: Correct. Director Zimmer: So, DWR recognized that and it will be addressed or corrected? Mr. Miller: The Plan Area in the Basin Plan excluded some of the areas of shallow alluvium on the boundary, areas that were included in the DWR Bulletin 118. We applied for a Basin Boundary Modification which DWR did no support. The County will be attempting to modify the boundary again.

	Director Zimmer: I thought there was further feedback from DWR that they had questions on what we were trying to adjust, was there additional feedback? Acting Director Hutchinson: We did not receive extensive questions. DWR provided input on additional technical information that they felt would be needed to support the determination that there are either two basins, one being the sub basin of the other, or that the eastern area is a Low Priority Basin and wouldn't require action under SGMA. Director Garfinkel: So, the County is going to address the issues raised by DWR? Acting Director Hutchinson: Yes, the County's work effort is to produce that additional technical information. Director Garfinkel: I understand they are going to do that in 2018? Acting Director Hutchinson: Correct. Director Zimmer: I appreciate the County moving forward with the GSA. Mr. Miller continued with his overview. Mr. Garfinkel: It is my understanding that the court order allowed suppliers to pump water under the old measurement of Hexavalent Chromium? Mr. Miller: That's what I understand, but we're not in a hurry to test that until we receive some specific written direction from Division of Drinking Water staff, we just want to be sure beforehand. Director Garfinkel: In the wells around the Broderson area, has it been detected as going down? (Nitrates) Mr. Miller: Not yet, it's going to take a while for the mound to build, perhaps a year. Maybe by next September we'll see water showing up in those monitoring wells. Director Zimmer: So that's the timeline that we anticipate seeing, about a year, I thought it was longer than that? Mr. Miller: Well this is right on the boundary of the disposal area. Downgradient could take a lot longer. Director Garfinkel: But the ground around where we're putting all that water in, there's no evidence of any problems in the Broderson area? Mr. Miller: Not that I am aware of, I'll defer to the County on that. Acting Director Hutchinson: No, we haven't detected any signs, like surfacing at all in that area. Director Ochylski: When Bruce was at our last CSD meeting, I thought he had mentioned there were more connections than these numbers are showing? Acting Director Hutchinson: Yes, we are seeing connections, it's tapering off quite a bit

from the phase 3 group. That deadline was March 18. Everyone who missed their connection deadline has been notified of that.

Public Comment

Ms. Owen: With the amount of farming and water usage in the fringe area, why would they not need to be managed for groundwater usage if the basin is alluvial? What is the cost of going back in to redo a Basin Boundary Modification? Also, how much water is available in the upper aquifer? It might make sense to use upper aquifer water to flush toilets instead of drinking water, if the water is available. Is there any proof or security that the Broderson Disposal Site is the best use of the full 450,000 gallons per day? I see other communities disposing their purple pipe water in river beds and other places where the water can percolate and be cleaned.

Mr. Margetson: Rob, you said the 450,000 gallons a day, the plant was originally designed for 1.2-1.3 Million, if all the connections happen this year do you have an estimate of what the daily flow will be? Also, if there is full buildout what will the daily flow be? I understand that all of the flow is now going to Broderson, at what point in the hierarchy of priorities, would water go to the dry land farmers? Would it be after the school receives some of the flow?

Response from the BMC

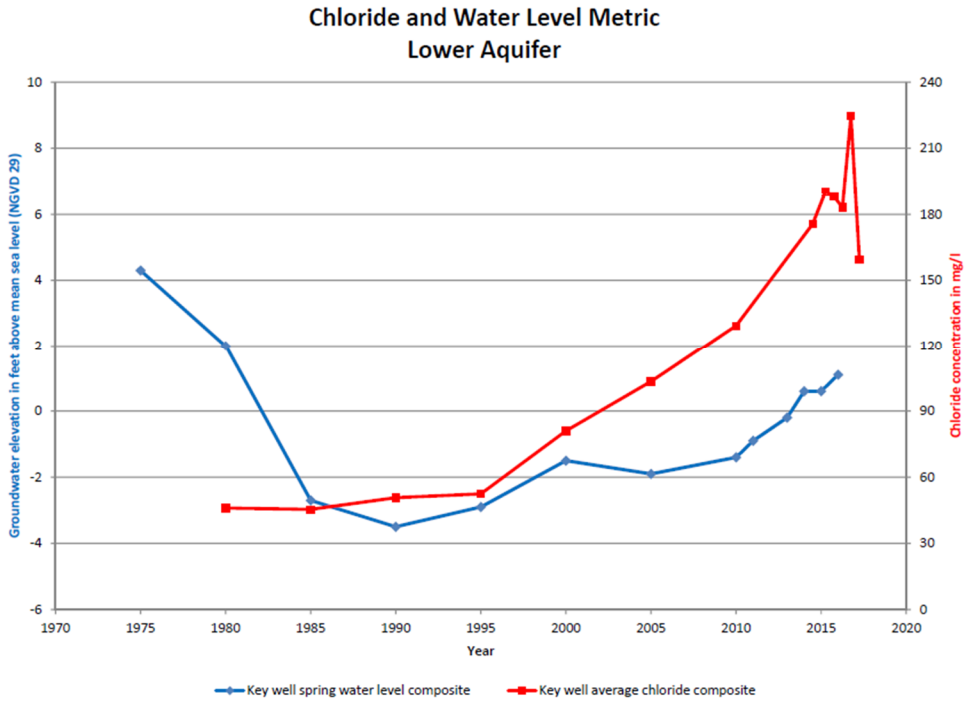
Mr. Miller: While the fringe area could be connected to the Basin they are in the very shallow alluvium and they really only affect themselves. Whatever they pump they pump, but it doesn't affect the majority of the basin. While they are in our watershed, the County will be actively involved in making sure they are managed under the requirements of SGMA. Estimates of the upper aquifer water volumes are in the annual reports. I do want to point out that the actual number in terms of volume is not necessarily the most meaningful number, it's the annual yield of water flowing in and out, that is the more meaningful number. We will have that number reported in our annual report, probably at our next meeting which will be a June meeting. Concerning Broderson being the best use, based on previous studies, the best use of recycled water is to serve it to urban customers and then reduce the amount water that is extracted from wells. Broderson was viewed as the next best thing in the studies that are based on modeled results. For Richard, yes, we are at about 450,000 gallons per day currently, when they are done with all the connections I'd estimate that we'd be at about maybe 1/2 million up to 550,000 gallons per day. At full buildout, your adding perhaps another 150,000 gallons a day of flow, so that would be about 650-700,000 gallons of water. It is unlikely that we will reach some of those design numbers at this point. As for the dry land famers, from a seawater intrusion benefit it's better to have the urban reuse as a higher priority.

Acting Director Hutchinson: It's important to note that the Costal Development Permit contains those priorities based on benefit to the basin. So, the intent, through the Recycled Water Management Plan, is to use the water that way. There are a number of efforts ongoing right now, to get the recycled water permit issued; one of those is the Salt and Nutrient Management Plan which we'll hear about today. We are also working with the water companies to deliver the water to them so they can serve their turf customers with it, and also that connection between Monarch Grove and the Gold Course.

7a. Update on Status of Basin Plan Infrastructure Projects	Mr. Miller: Gave brief overview and updates on the Status of the Basin Plan Infrastructure Projects. <u>No Response from the BMC</u> <u>Public Comment</u> Mr. Cesena: I just wanted clarification on Program C, expansion well Number 2 is listed as a Golden State Well but under the status it talks about CSD's efforts to acquire property. Are we planning on joint use of that well? Also, what is meant by "pending a funding vote"? Was this part of the recent rise in rates that Golden State customers are experiencing? As far as Program M, I fully support taking that money from the 218 process if we're not going to proceed with that. It looks like the water purveyors are moving forward with projects; I don't see the same effort from the BMC. Take that money and put it towards a monitoring well so we have something to balance the well data point over at Pasadena Ms. Owen: Could you explain the current status of the 218 vote? <u>Response from the BMC</u> Mr. Miller: In regard to Program C, Chuck Cesena was correct, LOCSD should have also been listed in the responsible parties for expansion well Number 2, we will get that corrected. We are open to discussion of shared use of those resources, we have the intertie, so we will be looking for the best technical solution when that final site location is determined. As for the status of the funding vote, at this time I think the committee is looking at what's happened in other areas of the County. It may not be a good time to pursue a 2/3 vote for a special tax That's why for the Districts Water System we're looking to self-fund our share of those projects, it doesn't mean we won't do that at some point, but the committee felt it was a bad time for that. Director Ochylski: I think response to that comment on the well 3, where it says, "depending funding vote" we may just want to change that because at this point it will be cooperative funding through the water purveyors.
7b. Update and Discussion of the Los Osos Community Plan	Mr. Miller: Reviewed the draft letter to the Coastal Commission. Mr. Miller showed some comments from Director Garfinkel and Director Gibson that might be added to the letter for approval. Director Garfinkel: Some of the comments are similar but I prefer brevity. I do not think item 2 is necessary. I could live with the changes. <u>Public Comment</u> Ms. Owen: I agree with the shorter versions, and I don't like the part that says, "The Basin Management Plan provides an accurate and achievable estimate of water supply that halts and reverses seawater intrusion" I would remove that line, since we do not know for sure. Mr. Edwards: It seems there are some inconsistencies with this, in number 1 where it references "halting and reversing seawater intrusion", under your Status of Basin Infrastructure Programs it reads "halt and to the extent possible reverse seawater intrusion". I think the idea that we are going to stop and reverse it are not appropriate.

	BMC Comments Director Ochylski: While I appreciate brevity as well, I like the expanded comment much better because whoever is reading it would not have to refer to the document it is included in there for them to read. I also agree with public comments regarding the Director Gibson's comments, but I am fine with the comments. Acting Director Hutchinson: I would agree with Director Garfinkel, the comments essentially say the same thing. However, it is good that the reader wouldn't have to go back to read the source document with Director Gibson's comments. The focus on "sustainable water supplies" from Director Garfinkel's comments should be added to Director Gibson's number one comment. Director Ochylski: I think it should be included as well, but maybe to the end of number three instead. Acting Director Hutchinson: I would agree with that. Director Garfinkel: I could live with these changes. Director Zimmer: So, we are looking to approve this right now? I thought the shorter abbreviated version was better and wanted to stay with that. What is the need for number 2 from our perspective? Director Ochylski: Since the Coastal Commission needs to be involved in the process, pointed that out as a distinct item helps. Acting Director Hutchinson: Regarding Infrastructure Projects, it helps in that any inappropriate modifications from the Coastal Commission are reduced. Director Ochylski: It shows that the Coastal Commission is involved with the process and we aren't overlooking them. I would like to see us go ahead and approve this with the alternative language, by removing the last sentence in recommendation #1 and adding to the last sentence in recommendation #3 include that "the rate of growth must be set so that the monitoring provisions of the Basin Plan confirms the adequacy of a sustainable water supply in support of any contemplated future growth." Director Garfinkel: I would make a motion that the Basin Management Committee accept and send the letter as modified in this meeting. Director Zimmer: I second the motion. **Ayes: Directors: Ochylski, Zimmer, Alternative Hutchinson and Garfinkel.** **Nays: None** **Abstain: None** **Absent: None**
7c. Review and Discussion of Spring 2017 Monitoring Data	Mr. Miller: A quick thanks to Cleath for getting us the early data. Mr. Miller provided a general overview of the monitoring data provided by Cleath for Spring 2017.

Table 19. 2017 Chloride Metric		
Metric Well	**Spring 2017 Chloride Concentrations**	**Fall 2017 Chloride Concentrations**
LA8	77 mg/L	
LA10	231 mg/l (double counted for average)	
LA11	167 mg/L	
LA12	91 mg/L	
Chloride Metric (weighted average)	**159 mg/L**	



Director Garfinkel: Where is Well LA 12?

Mr. Miller: LA 12 is the District's 8th Street Well.

Director Garfinkel: Why do we count LA 10 twice?

Mr. Miller: LA 10 or Rosina Well, is right on the seawater front. When the Basin Plan was drafted, it was decided that since that well is highly sensitive to seawater intrusion, we wanted to heavily weight it so we did so by a factor of 2.

Director Ochylski: The way people usually look at this is fall to fall or spring to spring but we are doing this on an annual basis which put those out of sync. Is there some way we can put together two versions of this, one being annual and the other version being fall to fall and spring to spring?

Mr. Miller: I think staff can do that without burdening our consultant, perhaps when we have the annual report we can have both sets of data available.

Director Zimmer: The metric provided here, is that for the fall or spring only?

Mr. Miller: The water level metric was calculated in the fall, the chloride metric is

	based on the latest spring reading. Director Zimmer: Were the historical data points all in spring or a mixture of the two? Mr. Miller: Spring of last year. <u>Public Comment</u> No public comment.
7d. Presentation on the Los Osos Basin Salt and Nutrient Management Plan	Ms. Martin: Gave a Presentation on the Los Osos Basin Salt and Nutrient Management Plan, which is attached at the end of the minutes. <u>Public Comment</u> Ms. Owens: Why will the summary not be prepared before the Regional Board gets it? Are we currently at 8 milligrams of nitrate, is that the average? Ms. Martin: The average of the basin right now is 6 milligrams, which includes the upper and lower aquifers, and all areas, combined for the average. Ms. Owens: You don't just take the upper aquifer? Mr. Martin: In the SNMP we do have it compartmentalized by the different sections. Ms. Owens. I would like to see the summary come before the public before it goes to the Regional Board.
7e. Water Conservation Program Update	Mr. Miller: Gave a brief update of the on the Water Conservation Program. Acting Director Hutchinson: We have a date of June 20th at the Board of Supervisors it's suggested as a consent item since there are no financial budget adjustments required. Director Garfinkel: Why did you change the option 1.28 L toilets up from 1.0 L? Acting Director Hutchinson: That change was in the BMC's request to the County. There was testimony that the 1.28's perform better than the 1.0's so we allowed some flexibility, however, I would encourage people to consider the 1.0's. <u>Public Comment</u> Mr. Edwards: I'm confused by this item, it seems too complicated. Water conservation should be easy. There should be one plan for Los Osos that includes all relevant indoor and outdoor conservation measures. Where is the funding coming from for these rebates? The BMC should recommend to the County inclusion of all measures for an addendum of the WCIP within an updated version of Title 19. Ms. Corrin: Why is the rain water capturing not included in the conservation plan? Ms. Owens: I would still like to see the $2.5 Million used, that the County was supposed to use for the funding of these conservation measures. I also think it would be good to implement water alarms that would meter water and alarm us if there is an unknown leak. I would like to see more individual pump stations like the one on

	10th street where people could fill up a water truck to bring back to their repurposed septic. I also think it would help if we had assistance getting larger water tanks on people's property for rain water capturing. Ms. Tornatzky : Looking at the picture in the Basin Management Plan of the recycled water pipe, there is a sizeable gap at 10th Street, near the school. Is there a deal that would happen between the CSD and the County to build that pipe, and where would the funding come from? Why isn't Rocky Setting hooking up to the purple pipe? I understand negotiations are ongoing between water companies, but what about a negotiation with Rocky Setting and the Golf Course? Is a lack of an HCP in the Community Plan impeding the work to get these purple pipes working? Mr. Margetson: The original plan that the County put together for the Wastewater Project had a chart with projections of how many units would be rebated within each category. Is there a way for us to get an idea of how many rebates might be asked for in each category, and how realistic they are, in addition could it include the projected savings? Directory Ochylski: Regarding the Golf Course, Mr. Hutchinson had discussed that when going over the priorities outlined within the Basin Management Plan. Mr. Miller: Regarding Mr. Edwards comments, this will be a County program, under the Wastewater project, not BMC funded, which is why it is limited to those items that are tied to the Wastewater Project. The idea of the residential units wasn't to have a direct purple pipe connection necessarily, we had looked for the repurposing of tanks to store hauled recycled water, but at this point it's not something that the State is supporting. Director Ochylski: To follow up on that, there is only so many things you can do with purple pipe water, and they can't be provided to single family residential units, they can only be provided to commercial properties or HOA's. Mr. Miller: Since there was not a direct link to the Wastewater Project it is not included in the County Program at this point. We think that it's important and we are still looking for funding for rainwater capture. We are looking into alarm systems, and we could probably benefit from Golden State's help, as they are researching that technology as well. There is Automated Meter Reading technology that would send a text message to your phone, but we'd have to change the register on the meter's first. Mr. Hutchinson perhaps this is something we could work on together. In regard to the schools, I don't believe there is a gap. There is a purple pipe to each school in the community. Director Ochylski: I was just referring to the timing and that negotiations are ongoing right now, and the priorities in the Basin Management Plan. Mr. Miller: Right, and I don't think the HCP is holding up that process of delivering purple pipe water, however the SNMP is one of the elements that is required as part of that. Acting Director Hutchinson: Projections of what might get used can be interesting when based on a broad average but the focus has always been on the mandate. The goal is to achieve and maintain something less than 50 GPD inside use.

	Mr. Miller: We have confirmed, after going over our bylaws, we can form additional groups that would allow members of the community to join in outreach, we can bring specifics back at our next meeting. Also, regarding Title 19, that might be a program where you could capture conservation measures that don't have any nexus with the Wastewater Project, such as rainwater capture. Director Ochylski: I want to make sure it's clear which properties are eligible for these rebates. Mr. Miller: To get these rebates you have to be one of the properties who are either connected or about to be connected to the Wastewater Project to be eligible. Director Ochylski: So, it does not extend outside of the Prohibition Zone? Mr. Miller: Right, however, Title 19 would. Acting Director Hutchinson: I want to point out were turning Prohibition Zone to Wastewater Service Area.
8. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA	Ms. Owens: By not doing a 218, does that mean people inside the Prohibition Zone pay for this monitoring, and people outside do not? The people outside the Prohibition Zone should have to contribute with well monitoring. Ms. Corrin: I agree some of them have very large properties and their water usage should be monitored as well. Acting Director Hutchinson: As it stands right now, with all the monitoring and gathering of data for the compilation of annual reports related to the wastewater project, the cost will fall back to the wastewater customers. Director Ochylski: The State Department of Water Resources requires a well report with well consumption. Mr. Miller: For agricultural wells, many are unmetered. If they have a water diversion permit must report on an annual basis now. If they are pure groundwater users they do not have to report. Director Ochylski: County ordinance now requires monitoring of all new wells. Mr. Miller: The District's perspective has been that all extractions from the basin should be ultimately metered. Director Ochylski: I think that is the goal of the committee as well. Mr. Miller: And to Ms. Owens comments, until such time that there is a special tax measure that burdens people outside the urban areas to pay something they don't currently pay. They don't currently pay anything which is an equity issue Director Ochylski: That was one of the reasons we included the fringe areas in the basin because everybody would be paying their fair share.
9. ADJOURNMENT	Meeting was adjourned at 3:25 pm. The next meeting will be on June 21st at the South Bay Community Center in Los Osos at 1:30pm.

Los Osos Salt/Nutrient Management Plan

May 17, 2017

Presented by

Catherine Martin, Water Resource Engineer

Topics

- Recycled Water Policy
- SNMP Sources
- Recycle Water Use
- Goals and Implementations
- Conceptual Model
- Antidegradation Analysis
- SNMP Monitoring Network / Report
- Next Steps

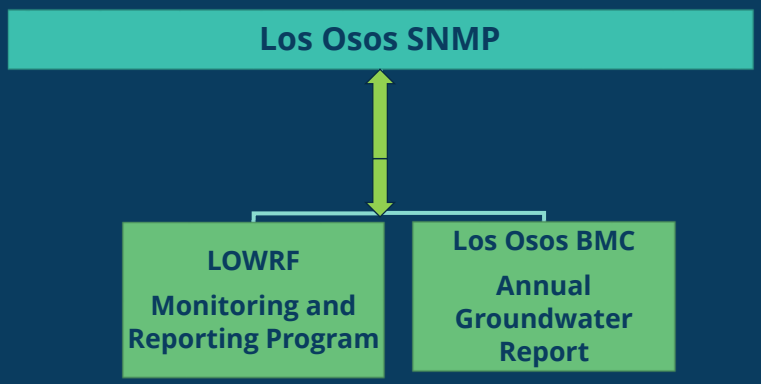
Recycled Water Policy

- Encourages and provides guidance for use of recycled water
- Requires an SNMP for the basin

COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

SNMP Sources



COUNTY OF SAN LUIS OBISPO

4

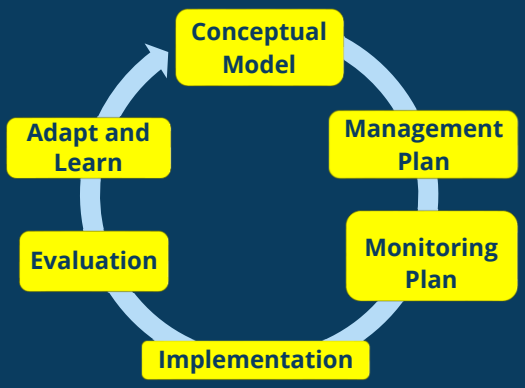
www.slocounty.ca.gov

SNMP Goals

- Halt or to the extent possible, reverse seawater intrusion in the Basin
- Provide sustainable water supplies and water quality
- Promote water conservation

SNMP Implementation

- Performance measures to manage salt and nutrient loading
- Adaptive Management Plan



Recycle Water Use in Los Osos Basin

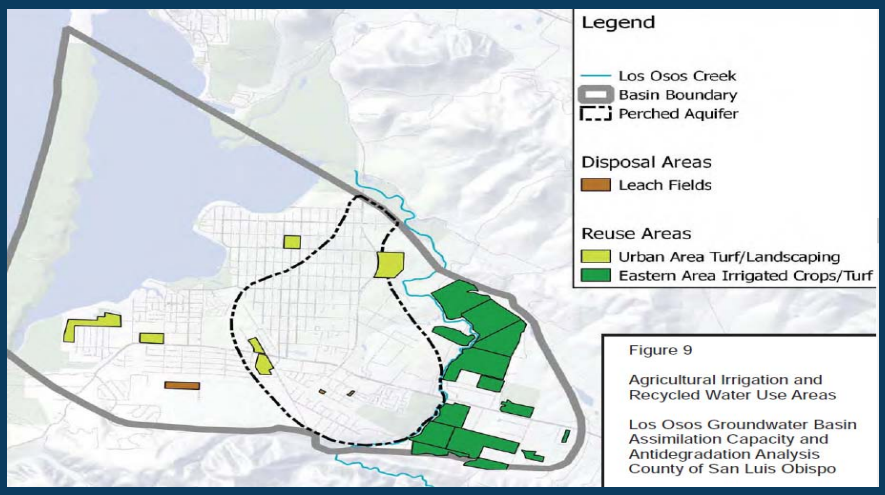


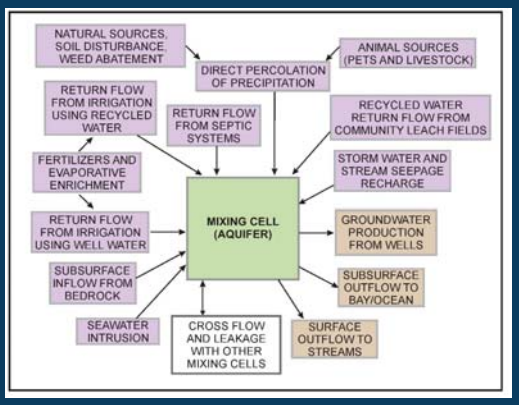
Figure 9

Agricultural Irrigation and Recycled Water Use Areas

Los Osos Groundwater Basin Assimilation Capacity and Antidegradation Analysis County of San Luis Obispo

COUNTY OF SAN LUIS OBISPO 7 www.slocounty.ca.gov

SNMP – Conceptual Model



Salt and Nutrient Loading:

- **Chloride, Nitrate, and TDS**

COUNTY OF SAN LUIS OBISPO 8 www.slocounty.ca.gov

Conceptual Model

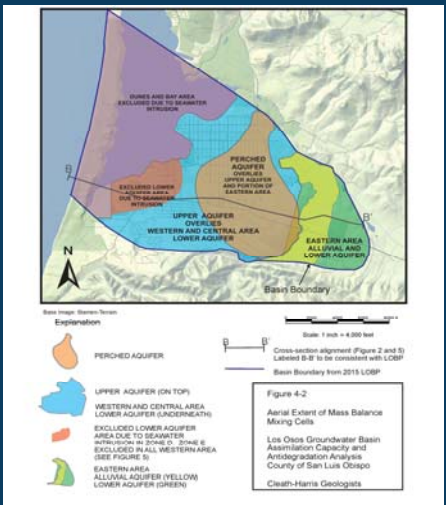
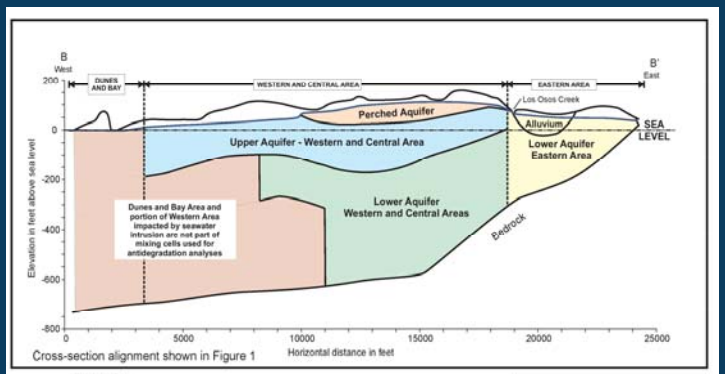


Table 5-6. NO_3-N Assimilative Capacity - Los Osos Groundwater Basin

Mass Mixing Cell	Allowable NO_3-N[1] [mg/L]	Current NO_3-N[2] [mg/L]	Assimilative Capacity[3] [mg/L]	10% Assimilative Capacity Use [mg/L]
Perched Aquifer	10	15	-5 (none)	0 (none)
Upper Aquifer	10	15	-5 (none)	0 (none)
Lower Aquifer-Western and Central Area	10	2	8	0.8
Lower Aquifer and Alluvial Aquifer - Eastern Area	10	6	4	0.6
BASIN AVERAGE (weighted)[4]	**10**	**6**	**4**	**0.4**

Conceptual Model



Explanation
- Perched Aquifer
- Upper Aquifer - Western and Central Areas
- Lower Aquifer and Alluvial Aquifer - Eastern Area
- Lower Aquifer - Western and Central Area
- No mixing cells for antidegradation analyses

Figure 4-3
Mass Balance Mixing Cells
Los Osos Groundwater Basin Assimilation Capacity and Antidegradation Analysis
County of San Luis Obispo
Cleath-Harris Geologists

SNMP – 3 Scenarios / Conceptual Model

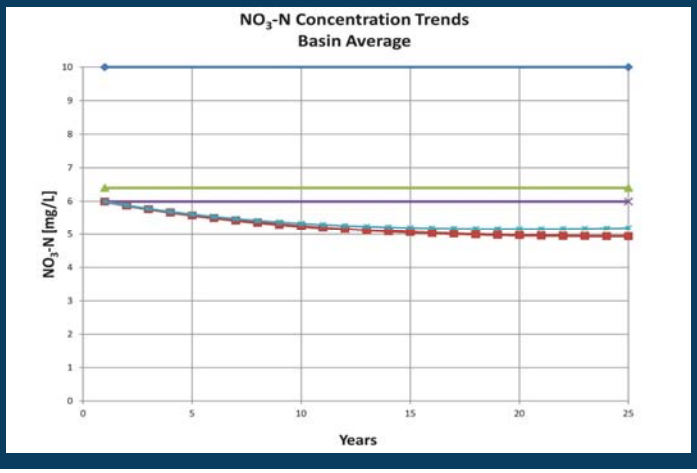
2012 Baseline Conditions
- Pre-LOWRF construction
- No management plans implemented

No Further Development
- BMC – management plans (E+U+AC)
- Construction of LOWRF
- Prohibition Zone Enforced

Buildout Development
- BMC – management plans (E+UG+ABC)
- Construction of LOWRF
- Prohibition Zone Removed

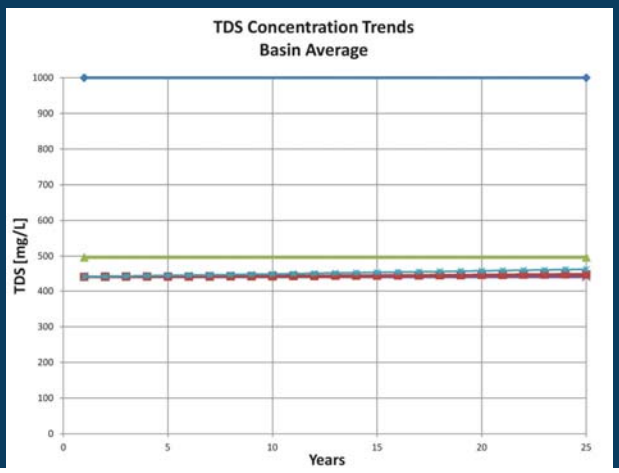
COUNTY OF SAN LUIS OBISPO 11 www.slocounty.ca.gov

Antidegradation Analysis



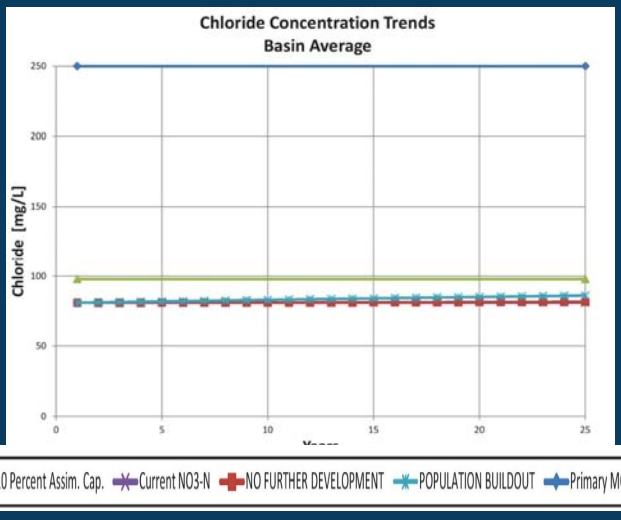
COUNTY OF SAN LUIS OBISPO 12 www.slocounty.ca.gov

Antidegradation Analysis



COUNTY OF SAN LUIS OBISPO 13 www.slocounty.ca.gov

Antidegradation Analysis



COUNTY OF SAN LUIS OBISPO 14 www.slocounty.ca.gov

SNMP Monitoring Report

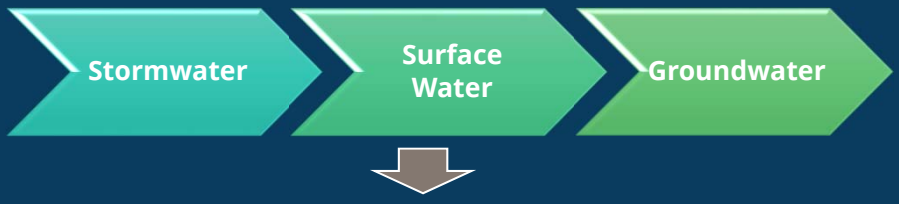
Los Osos SNMP Monitoring Report:

- Introduction and Background
- Collect and compile appropriate data from existing programs / reports
  - Monitoring results: maps/ figures/ tables
  - Data interpretation: calculation of Basin metrics and trends, water level contour maps, hydrographs, change in storage calculations;
  - Basin status: seawater intrusion, drought, supply issues; and
- SNMP monitoring program recommendations

COUNTY OF SAN LUIS OBISPO

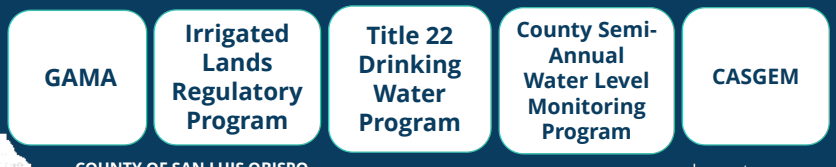
www.slocounty.ca.gov

SNMP Monitoring Report



SNMP

Supplemental Data



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

SNMP Monitoring Report

Los Osos BMC: Annual Groundwater Monitoring Report

LOWRF: Monitoring and Reporting Program

Coastal Development Permit:

Recycled Water Management Plan

Onsite Wastewater Treatment Systems

(future countywide program)

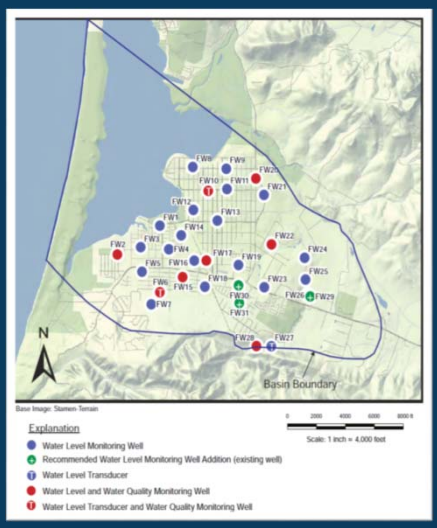
SNMP Monitoring Report

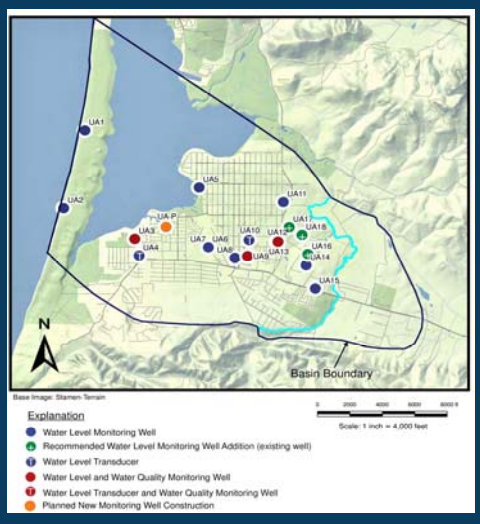
(submitted at least every 3 years)

COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

SNMP Monitoring Network / Report



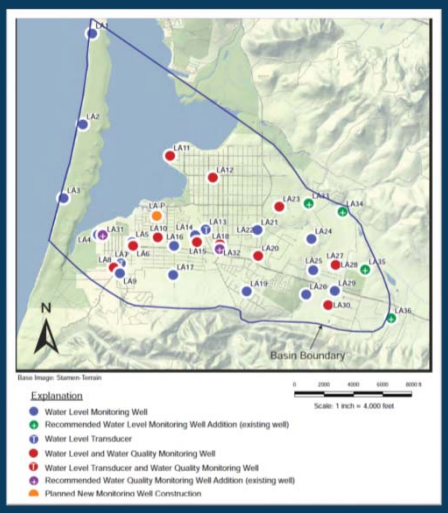


COUNTY OF SAN LUIS OBISPO

18

www.slocounty.ca.gov

SNMP Monitoring Network / Report

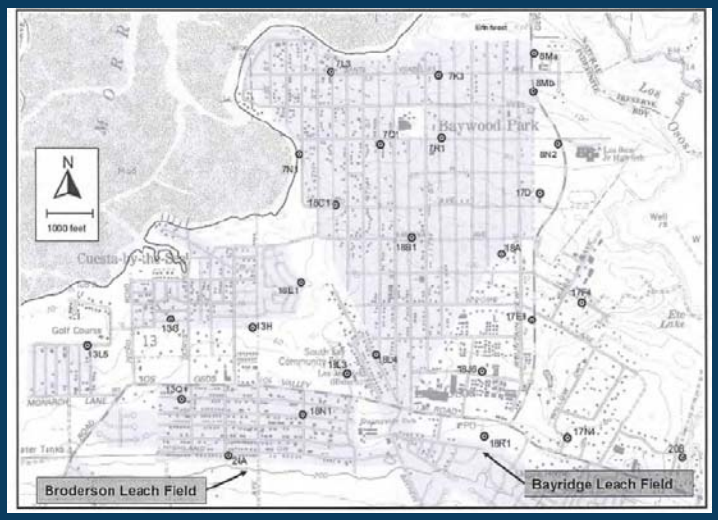


Los Osos Basin Plan

- Lower Aquifer = approx. 30 wells
  Water quality monitoring –
  spring / fall sampling
  (track seawater intrusion)
- Groundwater level monitoring performed at approx. 73 wells
- Fresh Water & Upper Aquifer Wells
  Water Quality Monitoring -
  23 wells are sampled in the fall

COUNTY OF SAN LUIS OBISPO 19 www.slocounty.ca.gov

SNMP Monitoring Network / Report



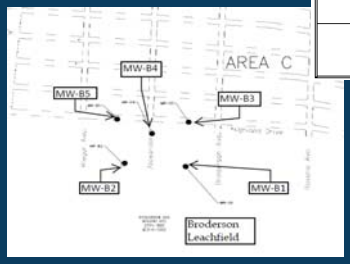
COUNTY OF SAN LUIS OBISPO 20 www.slocounty.ca.gov

SNMP Monitoring Network/Reporting

LOWRF Monitoring Plan

- 25 wells in 2012 through 2016 for baseline monitoring
- Semi-annual and annual sampling
- Annual CEC sampling from the LOWRF effluent
- **Broderson Leachfield** -
  5 additional monitoring wells installed

Well Name	Piezometer depth in feet
MW-B1	14
	27
	40
MW-B2	14
	27
	40
MW-B3	14
	27
	40
MW-B4	14
	27
	40
MW-B5	14
	27
	40

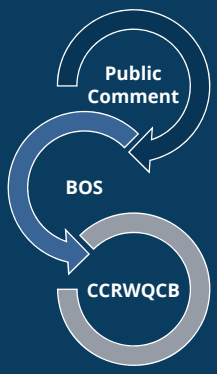


COUNTY OF SAN LUIS OBISPO 21 www.slocounty.ca.gov

Next Steps

COUNTY OF SAN LUIS OBISPO www.slocounty.ca.gov

Next Steps



- June 6th – Last day for public comments
- July 11th - County Board of Supervisors
- July 18th - Submit to the CCRWQCB

Stay informed: www.slocountywater.org

COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

Questions

COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

Thank you

Los Osos Wastewater Project Mission Statement:
To evaluate and develop a wastewater treatment system for Los Osos, in cooperation with the community water purveyors, to solve the Level III water resource shortage and groundwater pollution, in an environmentally sustainable and cost effective manner, while respecting community preferences and promoting participatory government, and addressing individual affordability challenges to the greatest extent possible.

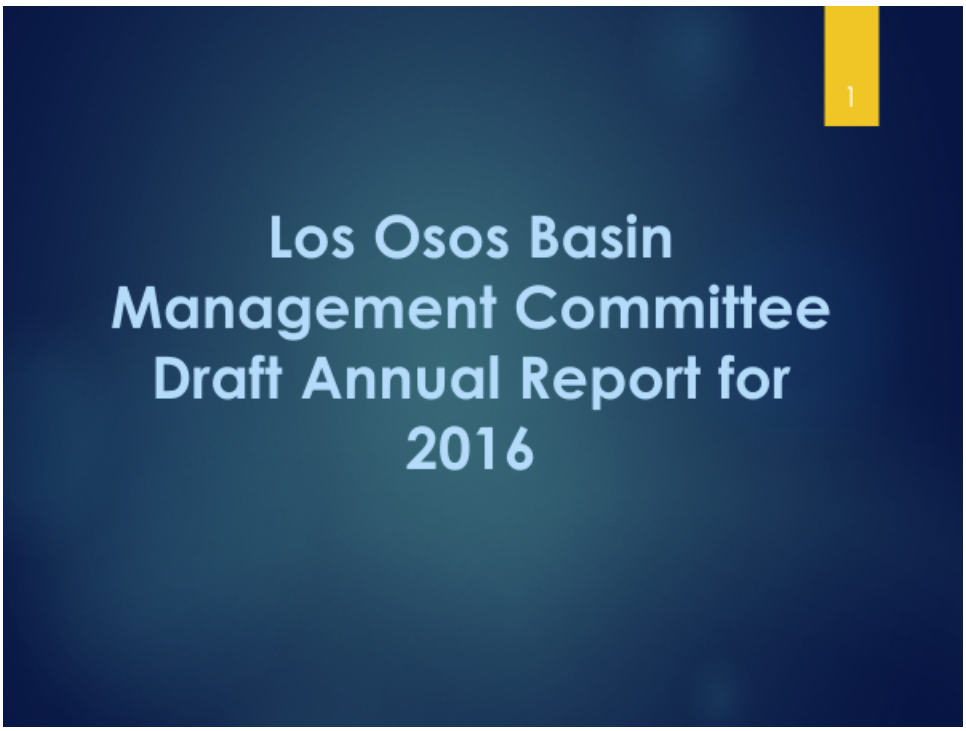
Please submit written comment to:
Cathy Martin
cmmartin@co.slo.ca.us
(805) 781-5275

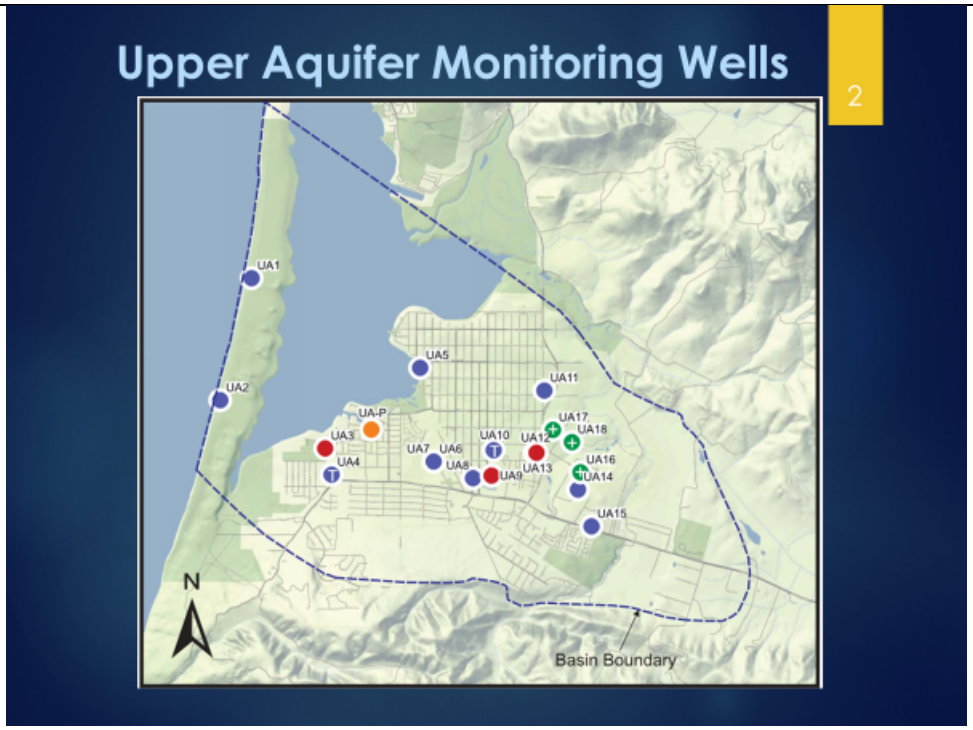
COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS

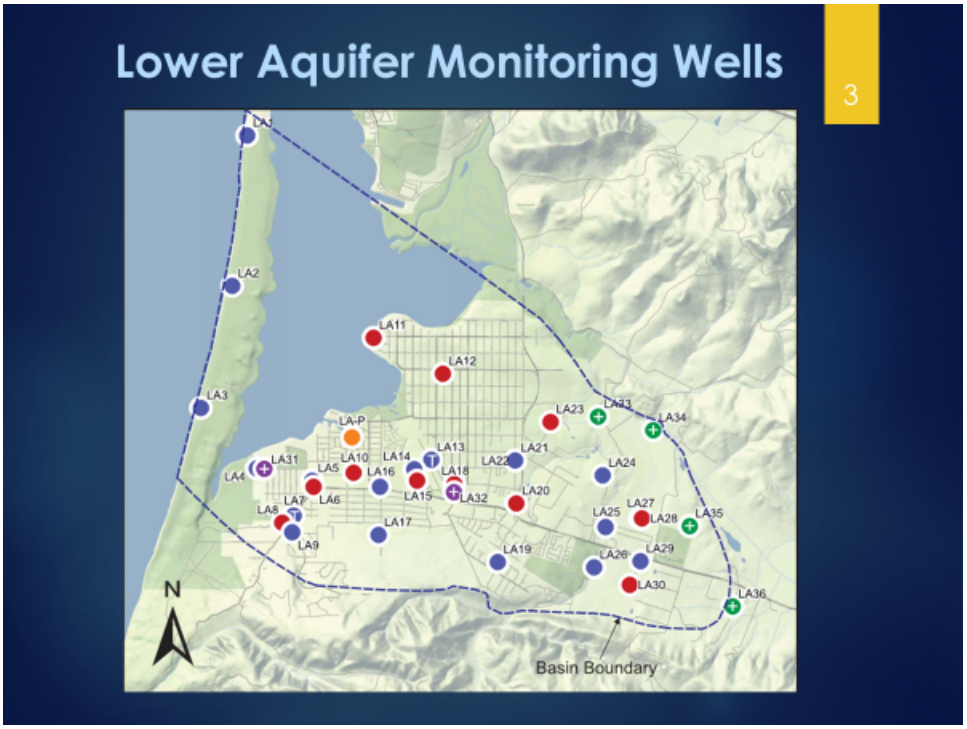
Agenda Item 5a: Minutes of the Meeting of June 21st, 2017

Agenda Item	Discussion or Action
1. CALL TO ORDER **2. PLEDGE OF ALLIGANCE** **3. ROLL CALL**	Director Ochylski serving as chair called the meeting to order at 1:35pm and asked Mr. Miller to lead the Pledge of Allegiance. Mr. Miller, acting Clerk, called roll to begin the meeting. Director Zimmer, Director Garfinkel, and Chairperson Ochylski, were present, Director Gibson was absent.
4. Board Member Comments	No Board Comments.
5a. Consider Draft 2016 Annual Report	Rob gave an overview of the draft 2016 Annual Report. 



(What do the colors stand for?)

Mr. Miller: The colors stand for if the wells are for water level only or they are wells for taking physical samples.

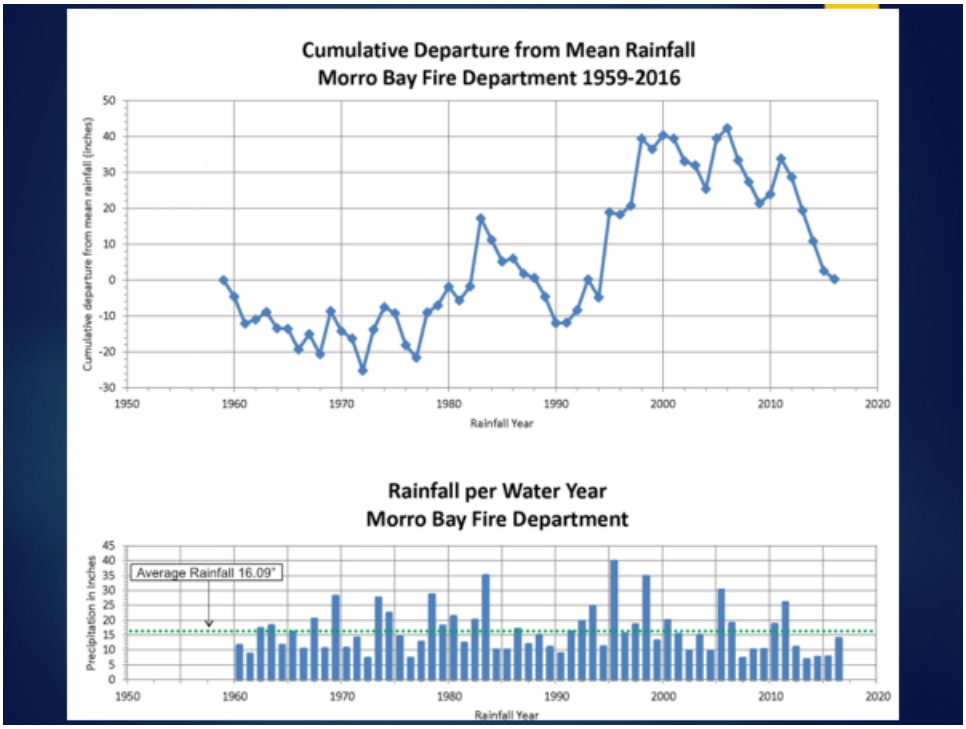


Director Garfinkel: We proposed to do a lower aquifer well? (Cuesta by the Sea)

Mr. Miller: A monitoring well can cover multiple zones. You can have a nested well where you would have a series of holes in the same casing and it would screen within the interval that you are interested in.

Director Garfinkel: So you can get upper aquifer information from that well as well?

Mr. Miller: Yes. You can even get Zones D & E separately from that well.



Director Garfinkel: Over what period of time is it averaged, from 1959-2016 does a year drop off when a new year is averaged in?

Mr. Miller: No, it is a cumulative average opposed to a moving average.

Board Member Comments

Director Zimmer: You mentioned the 8th Street well from the District, also the Rosina well from Golden State, during 2016 we did increase the pumping on that well probably in the same fashion as the District. One of the challenges was bringing on Los Olivos 5, which we are now pumping from beginning today.

Public Comment

Director Ochylski: I think your clarification Rob that this is calendar year, not a rainy season projection; it's a good clarification to be made. It's important because it doesn't take the rainy season as a full entity into account, but reading through this report it fulfils the requirements of the court.

Director Garfinkel: I read the report a couple times, there is a lot of information in it, and I would like to thank Cleath-Harris for the work they did on it. Having two reports now, we can begin to compare them and hopefully the County will use these reports as they finish up the Los Osos Community Plan.

Director Ochylski: Not only for the Community Plan but also for the fringe area, which we've talked about is not included in our plan because it's a fringe plan. Hopefully the County can use this to decide what they are going to do with the fringe area. I hope one day the fringe can be included in the Basin at the current time it's not. I think for the public benefit additional

	monitoring wells will provide us better data in the future. Mr. Miller: The Cuesta by the Sea well would cost around $100,000 - $150,000 to have a multiple zone monitoring well in that key area where conditions are unknown. We have applied for grant funding but it is competitive, so if there are other items that don't come to fruition within your budget this would be a good thing to use that unused budget on. It would take about 6 months to commission it and get it going. Director Garfinkel: How deep do you think that well should be? Mr. Miller: (Deferring to Spencer Harris) About 600 ft. Director Ochylski: Do we want to move this forward or take another look at it? Director Garfinkel: I would make the motion that we accept the Annual Report as written. Mr. Miller: We do have a few editorial comments from the Golden State staff, none of them are substantive just references and so forth but it would be great to include those in the motion. Director Garfinkel: Okay, editorial comments included in my motion. Director Zimmer: Second. **Ayes: Directors: Ochylski, Zimmer, and Garfinkel.** **Nays: None** **Abstain: None** **Absent: None**
8. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA	<u>Public Comment</u> Ms. Corrin: I would like clarification on when there might be monitors put on the wells in the eastern side, because I'm sure the water levels are affected by those wells. Mr. Supplick: San Luis Obispo resident and student at Cal Poly. In shifting away from the western side of the lower aquifer, is there any risk for shifting that yield to the central lower aquifer? Mr. Best: I would like to propose a plan to take water from the salt water intrusion area of the aquifer and use it for a salt water pool. It would reduce the salt water intrusion while producing water needed for a pool. It would be a great recreation and health facility for the residents. Director Ochylski: The monitoring of the wells are under the jurisdiction of the County, while County representation is not here today, the purveyors as well as the BMC has stressed this need for some time. Any concern would need to be addressed with Supervisor Gibson. Mr. Miller if you would like to look at the idea of the saltwater pool as a mitigation measure and bring that back to us in the future. Mr. Miller: Regarding the risk of shifting inland, and there is risk with the lower aquifer. The reason there is measured metrics is so that we don't rely upon modeled assumptions, and we can see how the aquifer is responding.

9. ADJOURNMENT	Meeting was adjourned at 2:30 pm. The next meeting will be on July 19th at the South Bay Community Center in Los Osos at 1:30pm.

TO: **Los Osos Basin Management Committee**

FROM: **Rob Miller, Interim Executive Director**

DATE: **July 19, 2017**

SUBJECT: **Item 5b – Approval of Budget Update and Invoice Register through June 30, 2017**

Recommendations

Staff recommends that the Committee review and approve the report.

Discussion

Staff has prepared a summary of costs incurred as compared to the adopted budget through June 30, 2017 (see Attachment 1). A running invoice register is also provided as Attachment 2. Staff recommends that the Committee approve the current invoices, outlined in Attachment 3.

Payment of invoices will continue to be processed through Brownstein Hyatt as noted in previous meetings.

Attachment 1: Cost Summary (Year to Date) for Calendar Year 2017 (updated through June 30, 2017)

Item	Description	Budget Amount	Costs Incurred Through December 31	Percent Incurred	Remaining Budget
1	Monthly meeting administration, including preparation, staff notes, and attendance	$50,000	$19,348.60	38.7%	$30,651
2	Meeting expenses - facility rent (if SBCC needed for larger venue)	$1,000	$240.00	24.0%	$760
3	Meeting expenses - audio and video services	$6,000	$3,025.00	50.4%	$2,975
4	Legal counsel (special counsel for funding measure)	$10,000	$0.00	0.0%	$10,000
5	Semi annual seawater intrusion monitoring	$15,000	$10,879.26	40.3%	$4,121
6	Annual report - not including Year 1 start up costs	$35,000	$13,600.00	38.9%	$21,400
8	Grant writing (outside consultant)	$12,000	$1,102.50	9.2%	$10,898
9	Creek Recharge and Replenishment Studies	$25,000	$837.20	3.3%	$24,163
10	Funding measure including Proposition 218 process	$100,000	$0.00	0.0%	$100,000
11	Conservation programs (not including member programs)	$10,000	$0.00	0.0%	$10,000
	Subtotal	$264,000			$214,967
	10% Contingency	$26,400			
	Total	**$290,400**	**$49,032.56**	**16.9%**	**$241,367**
	LOCSD (38%)	$110,352			
	GSWC (38%)	$110,352			
	County of SLO (20%)	$58,080			
	S&T Mutual (4%)	$11,616			
Notes					

Attachment 2: Invoice Register for Los Osos BMC for Calendar Year 2017 (through June 30, 2017)

Vendor	Invoice No.	Amount	Month of Service	Description	Budget Item	Previously Approved
Wallace Group	43235	$6,056.77	Jan-17	BMC admin services	1	x
Wallace Group	43389	$1,418.50	Feb-17	BMC admin services	1	x
Wallace Group	43548	$5,000.41	Mar-17	BMC admin services	1	x
Wallace Group	43783	$1,500.54	Apr-17	BMC admin services	1	
Wallace Group	43926	$5,372.38	May-17	BMC admin services	1	
South Bay Comm. Center	105	$120.00	Mar-17	Meeting Expenses-Facility Rent	2	x
South Bay Comm. Center	106	$120.00	May-17	Meeting Expenses-Facility Rent	2	
AGP	6849	$675.00	Jan-17	Audio services	3	x
AGP	6912	$775.00	Mar-17	Video/Audio	3	x
AGP	6981	$775.00	May-17	Video/Audio	3	
AGP	7022	$800.00	Jun-17	Video/Audio	3	
State Water Resources	RW-1008149	$837.20	Jan-17	Creek Discharge	9	x
Cleath Harris Geologists	20170302	$3,196.25	Mar-17	Semi-Annual Seawater Intrusion Monitoring	5	x
Cleath Harris Geologists	20170400	$7,683.01	Apr-17	Semi-Annual Seawater Intrusion Monitoring	5	x
Cleath Harris Geologists	20170401	$8,387.50	Apr-17	Annual Report Preparations	6	x
Cleath Harris Geologists	20170303	$5,212.50	Mar-17	Annual Report Preparations	6	x
WSC	2205	$1,102.50	Apr-17	Grant Writing	8	x
Total		**$49,032.56**				

ATTACHMENT 3

Current Invoices Subject to Approval for Payment (Warrant List as of June 30, 2017):

Vendor	Invoice #	Date of Services	Amount of Invoice
AGP	6981	May 2017	675.00
AGP	7022	June 2017	800.00
SBCC	106	May 2017	120.00
Wallace Group	43783	April 2017	1,500.54
Wallace Group	43926	May 2017	5,372.38

TO: **Los Osos Basin Management Committee**

FROM: **Rob Miller, Interim Executive Director**

DATE: **July 14, 2017**

SUBJECT: **Item 6 – Executive Director's Report**

Recommendations

Staff recommends that the Committee receive and file the report, and provide staff with any direction for future discussions.

Discussion

This report was prepared to summarize administrative matters not covered in other agenda items and also to provide a general update on staff activities.

Follow up from May and June meetings

The final letter to the San Luis Obispo County Planning Department and the California Coastal Commission has been posted to the web following approval by the BMC in May 2017. The link is as follows:
http://slocountywater.org/site/Water%20Resources/LosOsos/pdf/LOBMC%20Letter%20to%20CCC%20-%20SLO%20CO.PDF

The Final 2016 Annual Report has also been posted at the following link. The report was also submitted to the Court and to DWR.
http://slocountywater.org/site/Water%20Resources/LosOsos/pdf/2016%20Annual%20Report%20Final.pdf

Cleath Harris Geologists updated the spring 2017 data set to include an additional data point for the water level metric (attached). The water level metric has exceeded the 2' threshold for the first time since 1980.

Funding and Financing Programs to Support Basin Plan Implementation

Similar to the March 2017 update, staff continues to await confirmation from the State Water Resources Control Board regarding the Proposition 1 pre-application. Staff has also engaged in the IRWM process with SLO County.

Status of Zone of Benefit Analysis

Similar to previous updates, no special tax measure is being pursued by staff to fund BMC administrative or capital costs, though some funding has been set aside in the 2017 BMC budget to advance a funding measure if needed. Agenda Item 7a includes a discussion of a recent rate adjustment enacted by LOCSD in June to cooperatively fund its share of the Basin Infrastructure Program. Staff's current approach to capital projects under the Basin Plan

Infrastructure Program is to advance the needed projects through the property acquisition, environmental review, and Coastal Development Permit phases.

Sustainable Groundwater Management Act (SGMA) Compliance and Pending Deadlines

As indicated in the May 2017 update, the Plan Area defined in the Basin Plan and adopted by the Court is not subject to the requirements of SGMA, including the pending deadline to form a Sustainable Groundwater Management Agency by June 30, 2017. The County is working with landowners in the fringe areas and County staff can provide a verbal update at the meeting if requested. The County is also in the process of selecting a consultant to conduct a basin characterization study for the basin fringe areas, in preparation for submitting a basin boundary modification request to DWR in early 2018 if found appropriate.

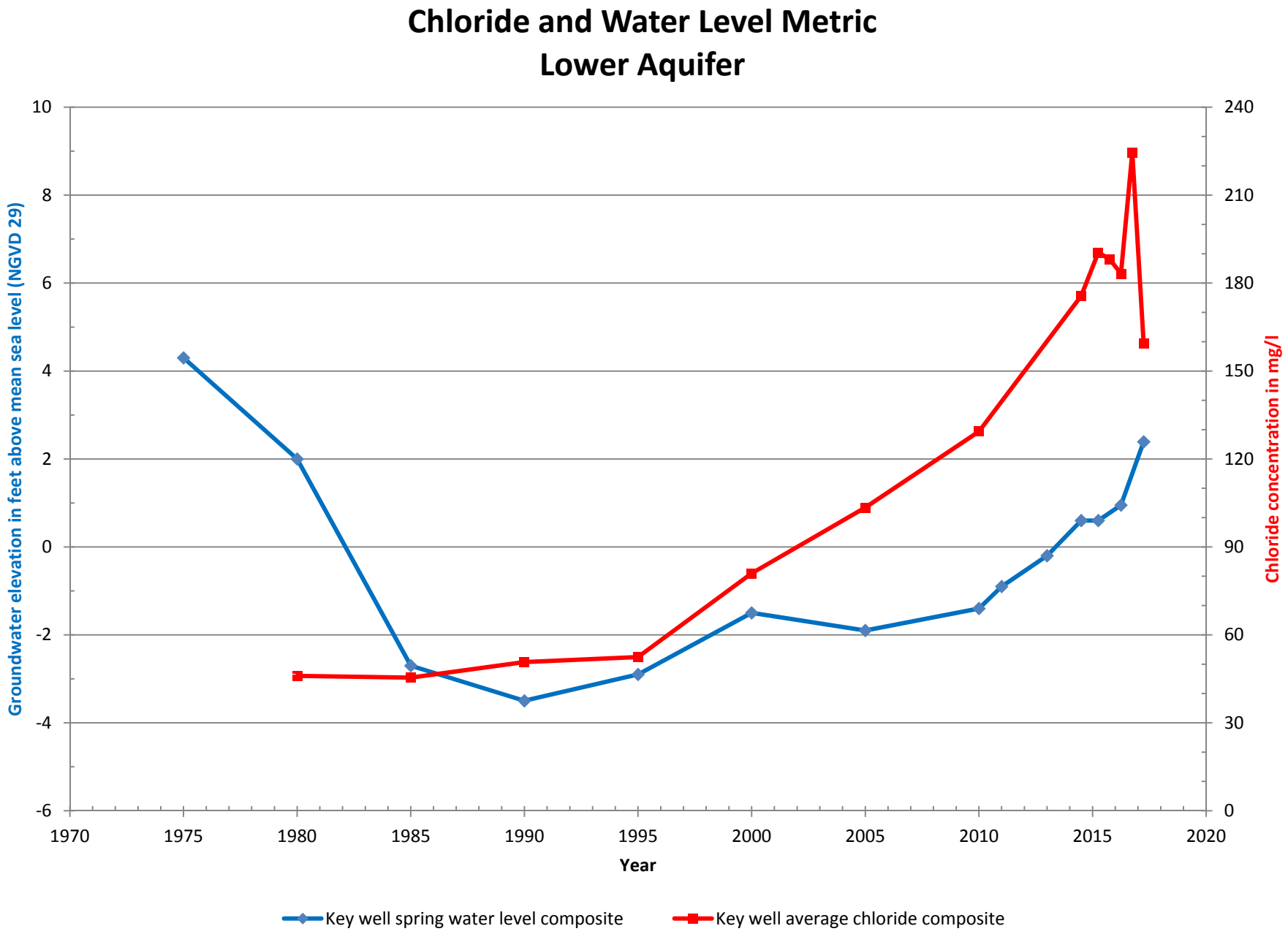
Creek Discharge Analysis

MKN Engineering is continuing its work on the potential creek recharge project using recycled water. The team recently conducted testing on flowing creek water and determined that the background water quality is below applicable contaminant levels. A copy of the test results is attached.

Los Osos Wastewater Project Flow and Connection Update

Staff plans to provide periodic updates on the status of connections and flows from the LOWWP. The following is an update on the status:

- As of 7/3/17, 91% of the lateral connections have been completed, or approximately 3,830 out of 4,200 laterals. The breakdown by area for the remaining laterals is as follows:
    - Phase 1: 86
    - Phase 2: 176
    - Phase 3: 108
    - Total: 370
- Flows are averaging approximately 430,000 gallons per day, with weekend peaks of 470,000 gallons per day
- Effluent has been discharged to the Broderson percolation site since August 10th. It is filtered and disinfected, which meets the WDR requirements of 7 mg/L total nitrogen. The County has completed the process verification procedure with SWB Division of Drinking Water, and the effluent has been deemed Title 22 disinfected tertiary recycled water.
- No recycled water has been delivered to irrigation customers to date, but final negotiations are ongoing.


Chloride and Water Level Metric
Lower Aquifer
Groundwater elevation in feet above mean sea level (NGVD 29)
Chloride concentration in mg/l
Year
10
8
6
4
2
0
-2
-4
-6
240
210
180
150
120
90
60
30
0
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Key well spring water level composite
Key well average chloride composite

Los Osos Creek Water Quality Sampling Results					
Sample taken May 30, 2017 1400 GPS: lat. 35°17'56.31"; long. 120°49'26.07" pH =7.97, EC = 896 µS/cm, T = 16.1 °C, estimated flow = 2.4 cfs					
Constituent	**Result**	**PQL**	**MCL , SMCL, or NL**	**Units**	**Exceedance? Y/N**
Total Hardness as CaCO3	402	2.5	N/A	--	N/A
Calcium	64	1	N/A	mg/L	N/A
Magnesium	59	1	N/A	mg/L	N/A
Potassium	1	1	N/A	mg/L	N/A
Sodium	36	1	N/A	mg/L	N/A
Total Cations	9.6	0.1	N/A	mg/L	N/A
Boron	0.1	0.1	1	mg/L	N
Copper	ND	10	1.3	mg/L	N
Iron	30	30	300	ug/L	N
Manganese	10	10	50	ug/L	N
Zinc	ND	20	N/A	ug/L	N/A
SAR	0.8	0.1	N/A	--	N/A
Total Alkalinity (as CaCO3)	300	10	N/A	mg/L	N/A
Hydroxide as OH	ND	10	N/A	mg/L	N/A
Carbonate as CO3	ND	10	N/A	mg/L	N/A
Bicarbonate as HCO3	370	10	N/A	mg/L	N/A
Sulfate	103	0.5	N/A	mg/L	N/A
Chloride	57	1	N/A	mg/L	N/A
Nitrate as NO3	ND	0.5	45	mg/L	N
Nitrite as N	ND	0.2	1.0	mg/L	N
Nitrate + Nitrite as N	ND	0.1	10	mg/L	N
Fluoride	0.2	0.1	2	mg/L	N
Total Anions	9.8	0.1	N/A	meq/L	N/A
pH	7.8	--	N/A	units	N/A
Specific Conductance	886	1	N/A	umhos/cm	N/A
Total Dissolved Solids	550	20	N/A	mg/L	N/A
MBAS (foaming agents)	Negative	0.1	N/A	mg/L	N/A
Aggressiveness Index	12.5	1	N/A	--	N/A
Langelier Index (20°C)	0.6	1	N/A	--	N/A
Nitrate Nitrogen	ND	0.1	10	mg/L	N
Aluminum	ND	10	200	ug/L	N
Antimony	ND	1	10	ug/L	N
Arsenic	ND	2	10	ug/L	N
Barium	127	0.2	1000	ug/L	N
Beryllium	ND	1	0	ug/L	N
Cadmium	ND	0.2	5	ug/L	N
Chromium	7	1	50	ug/L	N
Lead	ND	0.5	15	ug/L	N
Mercury	ND	0.02	2	ug/L	N
Nickel	4	1	100	ug/L	N
Selenium	ND	1	50	ug/L	N
Silver	ND	1	N/A	ug/L	N/A
Thallium	ND	0.2	2	ug/L	N
Vanadium	5	2	15	ug/L	N
Chromium VI	0.2	0.1	10	ug/L	N
Cyanide, Total	ND	0.004	0.15	mg/L	N

Perchlorate	ND	2	6	ug/L	N
DBCP	ND	0.01	0	ug/L	N
EDB	ND	0.02	0.05	ug/L	N
Alachlor	ND	0.2	2	ug/L	N
Aldrin	ND	0.075	N/A	ug/L	N/A
Chlordane	ND	0.1	0.1	ug/L	N
Dieldrin	ND	0.01	N/A	ug/L	N/A
Endrin	ND	0.01	2	ug/L	N
Heptachlor	ND	0.01	0.01	ug/L	N
Heptachlor Epoxide	ND	0.01	0.01	ug/L	N
Hexachlorobenzene	ND	0.01	1	ug/L	N
Hexachlorocyclopentadiene	ND	0.1	50	ug/L	N
Lindane (Gamma BHC)	ND	0.05	0.2	ug/L	N
Methoxychlor	ND	0.1	30	ug/L	N
Toxaphene	ND	0.5	3	ug/L	N
PCB 1016	ND	0.5	N/A	ug/L	N/A
PCB 1221	ND	0.5	N/A	ug/L	N/A
PCB 1232	ND	0.5	N/A	ug/L	N/A
PCB 1242	ND	0.5	N/A	ug/L	N/A
PCB 1248	ND	0.5	N/A	ug/L	N/A
PCB 1254	ND	0.5	N/A	ug/L	N/A
PCB 1260	ND	0.5	N/A	ug/L	N/A
Alachlor	ND	1	2	ug/L	N
Atrazine	ND	0.5	1	ug/L	N
Bromacil	ND	2	N/A	ug/L	N/A
Butachlor	ND	0.38	N/A	ug/L	N/A
Diazinon	ND	2	N/A	ug/L	N/A
Dimethoate	ND	2	N/A	ug/L	N/A
Metolachlor	ND	1	N/A	ug/L	N/A
Metribuzin	ND	0.5	N/A	ug/L	N/A
Molinate	ND	2	20	ug/L	N
Prometryne	ND	2	N/A	ug/L	N/A
Propachlor	ND	0.5	N/A	ug/L	N/A
Simazine	ND	0.5	4	ug/L	N
Thiobencarb	ND	1	70	ug/L	N
Cyanazine	ND	0.5	N/A	ug/L	N/A
Bentazon	ND	2	18	ug/L	N
2,4-D	ND	2	70	ug/L	N
Dalapon	ND	10	200	ug/L	N
Dicamba	ND	1	N/A	ug/L	N/A
Dinoseb	ND	1	7	ug/L	N
Pentachlorophenol	ND	0.2	1	ug/L	N
Picloram	ND	1	500	ug/L	N
2,4,5-TP (Silvex)	ND	1	50	ug/L	N
2,4,5-T	ND	1	N/A	ug/L	N/A
Benzene	ND	0.5	1.0	ug/L	N
Bromobenzene	ND	0.5	N/A	ug/L	N/A
Bromochloromethane	ND	0.5	N/A	ug/L	N/A
Bromodichloromethane	ND	0.5	80	ug/L	N
Bromoform	ND	0.5	80	ug/L	N
Bromomethane	ND	0.5	N/A	ug/L	N/A
n-Butylbenzene	ND	0.5	260	ug/L	N

sec-Butylbenzene	ND	0.5	260	ug/L	N
tert-Butylbenzene	ND	0.5	260	ug/L	N
Carbon Tetrachloride	ND	0.5	0.5	ug/L	N
Chlorobenzene	ND	0.5	70	ug/L	N
Chloroethane	ND	0.5	N/A	ug/L	N/A
Chloroform	ND	0.5	80	ug/L	N
Chloromethane	ND	0.5	N/A	ug/L	N/A
2-Chlorotoluene	ND	0.5	140	ug/L	N
4-Chlorotoluene	ND	0.5	140	ug/L	N
Dibromochloromethane	ND	0.5	80	ug/L	N
Dibromomethane	ND	0.5	N/A	ug/L	N/A
1,2-Dichlorobenzene	ND	0.5	600	ug/L	N
1,3-Dichlorobenzene	ND	0.5	N/A	ug/L	N/A
1,4-Dichlorobenzene	ND	0.5	5	ug/L	N
Dichlorodifluoromethane	ND	0.5	1000	ug/L	N
1,1-Dichloroethane	ND	0.5	5	ug/L	N
1,2-Dichloroethane	ND	0.5	0.5	ug/L	N
1,1-Dichloroethylene	ND	0.5	6.0	ug/L	N
cis-1,2-Dichloroethylene	ND	0.5	6.0	ug/L	N
trans-1,2-Dichloroethylene	ND	0.5	6.0	ug/L	N
1,2-Dichloropropane	ND	0.5	0.5	ug/L	N
1,3-Dichloropropane	ND	0.5	0.5	ug/L	N
Dichloromethane	ND	0.5	5.0	ug/L	N
2,2-Dichloropropane	ND	0.5	N/A	ug/L	N/A
1,1-Dichloropropene	ND	0.5	N/A	ug/L	N/A
cis-1,3-Dichloropropene	ND	0.5	N/A	ug/L	N/A
trans-1,3-Dichloropropene	ND	0.5	N/A	ug/L	N/A
1,3-Dichloropropene (Total)	ND	---	N/A	ug/L	N/A
Di-isopropyl ether (DIPE)	ND	3	N/A	ug/L	N/A
Ethyl Benzene	ND	0.5	300	ug/L	N
Ethyl tert-Butyl Ether (ETBE)	ND	3	N/A	ug/L	N/A
Hexachlorobutadiene	ND	0.5	N/A	ug/L	N/A
Isopropylbenzene	ND	0.5	770	ug/L	N
p-Isopropyltoluene	ND	0.5	N/A	ug/L	N/A
Methyl tert-Butyl Ether (MTBE)	ND	1	13	ug/L	N
Naphthalene	ND	0.5	N/A	ug/L	N/A
n-Propylbenzene	ND	0.5	260	ug/L	N
Styrene	ND	0.5	100	ug/L	N
Tert-amyl-methyl Ether (TAME)	ND	3	N/A	ug/L	N/A
1,1,1,2-Tetrachloroethane	ND	0.5	N/A	ug/L	N/A
1,1,2,2-Tetrachloroethane	ND	0.5	1	ug/L	N
Tetrachloroethylene	ND	0.5	5	ug/L	N
Toluene	ND	0.5	150	ug/L	N
1,2,3-Trichlorobenzene	ND	0.5	N/A	ug/L	N/A
1,2,4-Trichlorobenzene	ND	0.5	5	ug/L	N
1,1,1-Trichloroethane	ND	0.5	200	ug/L	N
1,1,2-Trichloroethane	ND	0.5	5	ug/L	N
Trichloroethylene	ND	0.5	5	ug/L	N
Trichlorofluoromethane	ND	0.5	150	ug/L	N
1,1,2-Trichlorotrifluoroethane	ND	0.5	N/A	ug/L	N/A
1,2,4-Trimethylbenzene	ND	0.5	330	ug/L	N
1,3,5-Trimethylbenzene	ND	0.5	330	ug/L	N

Vinyl Chloride	ND	0.5	0.5	ug/L	N
Xylenes m,p	ND	0.5	N/A	ug/L	N/A
Xylenes o	ND	0.5	N/A	ug/L	N/A
Xylenes (Total)	ND	---	1750	ug/L	N
Total Trihalomethanes	ND	---	80	ug/L	N
Aldicarb	ND	3	N/A	ug/L	N/A
Aldicarb Sulfone	ND	2	N/A	ug/L	N/A
Aldicarb Sulfoxide	ND	3	N/A	ug/L	N/A
Carbaryl	ND	5	N/A	ug/L	N/A
Carbofuran	ND	5	18	ug/L	N
3-Hydroxycarbofuran	ND	3	N/A	ug/L	N/A
Methomyl	ND	2	N/A	ug/L	N/A
Oxamyl	ND	5	50	ug/L	N
Glyphosate	ND	20	70	ug/L	N
Endothall	ND	40	100	ug/L	N
Diquat	ND	2	20	ug/L	N
TOC	2.3	0.3	N/A	mg/L	N/A
Gross Alpha	4.06		15	pCi/L	N
Gross Beta	0.457		50	pCi/L	N
Uranium	1.68		20	pCi/L	N
1,2,3-Trichloropropane	ND	0.005	0.005	ug/L	N

TO: **Los Osos Basin Management Committee**

FROM: **Rob Miller, Interim Executive Director**

DATE: **July 14, 2017**

SUBJECT: **Item 7A. – Update on Status of Basin Plan Infrastructure Projects**

Recommendations
Receive report and provide input to staff for future action.

Discussion
The Basin Management Plan for the Los Osos Groundwater Basin (Plan) was approved by the Court in October, 2015. The Plan provided a list of projects that comprise the Basin Infrastructure Program (Program) that were put forth to address the following immediate and continuing goals:

Immediate Goals

1. Halt or, to the extent possible, reverse seawater intrusion into the Basin.
2. Provide sustainable water supplies for existing residential, commercial, community and agricultural development overlying the Basin.

Continuing Goals

1. Establish a strategy for maximizing the reasonable and beneficial use of Basin water resources.
2. Provide sustainable water supplies for future development within Los Osos, consistent with local land use planning policies.
3. Allocate costs equitably among all parties who benefit from the Basin's water resources, assessing special and general benefits.

The Program is divided into four parts, designated Programs A through D. Programs A and B shift groundwater production from the Lower Aquifer to the Upper Aquifer, and Programs C and D shift production within the Lower Aquifer from the Western Area to the Central and Eastern Areas, respectively. Program M was also established in the Basin Management Plan for the development of a Groundwater Monitoring Program (See Chapter 7 of the BMP), and a new lower aquifer monitoring well in the Cuesta by the Sea area was recommended in the 2015 Annual Report. The following Table provides an overview of status of the Projects that are currently moving forward or have been completed.

In June 2017, the LOCSD adopted new water rates intended to provide net revenue for capital funding over the next three fiscal years as follows:

- FY 17/18: $500,000
- FY 18/19: $700,000

- FY 19/20: $900,000

These rates will be sufficient to fully fund the District's portion of all Program A and C projects, either using debt service or pay-as-you-go. Additional cooperative funding approaches with other BMC members could also be considered for Expansion Well No. 3 or other program elements.

Project Name	Parties Involved	Funding Status	Capital Cost	Status
Program A				
Water Systems Interconnection	LOCSD/ GSWC	Fully Funded	Construction Value: $103,550	Project completed February 2017, with final approval in March 2017
Upper Aquifer Well (8th Street)	LOCSD	Fully Funded	$250,000	Well was drilled and cased in December 2016. Budget remaining $250,000 to equip the well. Design RFP was issued in April, and a consultant was retained in June 2017. Project to be completed by June 2018 or earlier if possible.
South Bay Well Nitrate Removal	LOCSD	Completed		
Palisades Well Modifications	LOCSD	Completed		
Blending Project (Skyline Well)	GSWC	Fully Funded	Previously funded through rate case	Blending of Skyline Well and Rosina Well Project was completed. Project required modifications to include a new nitrate removal unit. Permits and equipment secured. Delivery of the treatment unit has occurred, and start-up is anticipated in August 2017.
Water Meters	S&T	Completed		
Program B				
LOCSD Wells	LOCSD	Not Funded	BMP: $2.7 mil	Project not initiated
GSWC Wells	GSWC	Not Funded	BMP: $3.2 mil	Project not initiated
Community Nitrate Removal Facility	LOCSD/GSWC	Partial	First phase combined with GSWC Program A	GSWC's Program A Blending Project allows for incremental expansion of the nitrate facility and can be considered a first phase in Program B.
Program C				
Expansion Well No. 1 (Los Olivos)	GSWC	Fully Funded	Previously funded through rate case	Well is now fully operational as of the end of June 2017.

Project Name	Parties Involved	Funding Status	Capital Cost	Status
Expansion Well No. 2	GSWC/LOCSD	Cooperative Funding	BMP: $2.0 mil	Property acquisition phase is on-going through efforts of LOCSD. Two sites are currently being reviewed, and both appear to be viable for new east side lower aquifer wells, Environmental studies initiated in December 2016 for expansion well #2.
Expansion Well 3 and LOVR Water Main Upgrade	GSWC/LOCSD	Cooperative Funding	BMP: $1.6 mil	Property acquisition phase is on-going through efforts of LOCSD. Two sites are currently being reviewed, and both appear to be viable for new east side lower aquifer wells.
LOVR Water Main Upgrade	GSWC	Pending Funding Vote	BMP: $1.53 mil	Project not initiated
S&T/GSWC Interconnection	S&T/ GSWC	Pending	BMP: $30,000	Conceptual design
Program M				
New Zone D/E lower aquifer monitoring well in Cuesta by the Sea	All Parties	Not funded	$100,000	Pending funding plan – See agenda item 7c

TO: **Los Osos Basin Management Committee**

FROM: **Rob Miller, Interim Executive Director**

DATE: **July 14, 2017**

SUBJECT: **Item 7b – Options for Formation of a Conservation Subcommittee for Public Outreach**

Recommendation:

It is recommended that the Basin Management Committee (Committee) review and consider options for the formation of a Conservation Subcommittee and direct staff to return with a resolution forming an *ad hoc* advisory subcommittee of the Committee composed of two (2) directors whose combined voting percentages total less than fifty percent (50%).

Discussion:

Your Committee has discussed the potential formation of a subcommittee in connection with water conservation efforts within the Los Osos Basin (Basin) (Conservation Subcommittee) on a number of occasions. The purpose of the Conservation Subcommittee would be to advise the Committee on the development of a public outreach plan to increase public awareness of the various existing and proposed conservation programs within the Basin (*e.g.* the water conservation program connected to the Los Osos Wastewater Project and the water conservation program contained within Title 19 of the San Luis Obispo County Code of Ordinances). On June 20, the Board of Supervisors authorized a number of new rebates as a result of previous BMC discussions. A copy of the draft resolution and amended rebate list is attached. At its meeting on March 15, 2017, the Committee requested that legal counsel determine its authority to form a Conservation Subcommittee. Legal counsel for both the County and Golden State Water Company assisted in the preparation of this report.

Authority to Form Subcommittees:
Both the Stipulated Judgment (Section 5.9.8) and the Committee Bylaws (Article 9) permit the Committee to form subcommittees by resolution:

> *From time to time, the Basin Management Committee may, by resolution, establish one or more subcommittees for such purposes as the Basin Management Committee may designate. Any such subcommittee shall have such scope of authority as the Basin Management Committee may designate in the subcommittee enabling resolution.*

Brown Act:

Under the Brown Act (Government Code Section 54950 *et seq.*), a committee or other body of a local agency, whether permanent or temporary, decision making or advisory, created by resolution or formal action of a legislative body is subject to the Brown Act with the exception of advisory committees (that do not constitute standing committees – *i.e.* committees with continuing subject matter jurisdiction or a meeting scheduled fixed by resolution or formal action

of the legislative body) composed solely of the members of the legislative body that are less than a quorum of the legislative body (Government Code Section 54952(b)). In addition, a private committee that receives funds from a local agency and the membership of whose governing body includes a member of the legislative body of the local agency appointed to that governing body as a full voting member is also subject to the Brown Act (Government Code Section 54950(c)(1)(B)).

Formation Options:

Option 1: *Ad Hoc Advisory Subcommittee Composed of Less a Quorum of Directors*

By resolution, the Committee could form the Conservation Subcommittee as an *ad hoc* advisory committee composed of less than a quorum (*i.e.* two (2)) Directors). Pursuant to both the Stipulated Judgment (Section 5.11.1) and the Committee Bylaws (Article 7.3) a quorum of the Committee is three (3) Directors. Staff recommends this option because it would be the most flexible and efficient provided that the Conservation Committee is established as a temporary *ad hoc* advisory committee for the sole purpose of providing advice to the Committee regarding the public outreach plan. The Conservation Subcommittee would terminate upon the Committee's adoption of the plan.

It is anticipated that the two (2) Conservation Subcommitee members would work closely with staff, as necessary, and conduct one (1) or more public community outreach meetings to solicit and incorporate community member comments. If the Committee selects this option, staff recommends that the Conservation Subcommittee be composed of two (2) Directors whose voting percentages do not exceed 50 percent (50%) (*i.e.* that the Director representing S&T Mutual Water Company be one (1) of the Directors appointed to the Conservation Subcommittee).

Option 2: *Brown Act Subcommitee*

By resolution, the Committee could form the Conservation Subcommittee as a committee subject to the Brown Act. The advantage to such a Conservation Subcommittee is that the composition of the subcommittee would be less constrained. For example, members of the public could serve directly on the Conservation Subcommittee. Staff does not recommend this option given the Conservation Subcommittee's limited and defined role, the time and expense associated with managing a Brown Act committee and the fact that staff believes that community involvement can be adequately considered through the public community outreach meeting(s) discussed in Option 1 above.

Option 3: *No Subcommittee – Direct Staff to Develop the Community Outreach Plan*

The Committee could elect not to proceed with the formation of a separate Conservation Subcommittee and instead direct the Executive Director, in coordination with staff from the members, to develop the community outreach plan for consideration by the Committee. As in Option 1, under this option staff could also conduct one (1) or more community outreach meetings to solicit and incorporate community member comments. Although the Executive

Director could undertake such a task, staff believes that an option that includes more direct Director involvement is preferable.

Option 4: *No Subcommittee – Solicit Input from Existing Community Groups*

The Committee could elect not to proceed with the formation of a separate Conservation Subcommittee and instead request that existing community groups provide focused input on the contents of the community outreach plan. For example, the Sierra Club previously provided helpful comments with respect to additional measures to be included with the Water Conservation Implementation Plan and would likely have valuable input with respect to the development of the community outreach plan. Under this option, the Committee would solicit additional focused input from members of the community during upcoming meetings.

Conclusion:

Both Options 1 and 2 require the preparation of a resolution which staff could bring back for your Committee's consideration at the next meeting. For the reasons indicated above, staff recommends Option 1 over Option 2. If your Committee prefers Option 3 or 4, your Committee could direct staff to commence development of the community outreach plan or to solicit input from certain community groups, respectively.

IN THE BOARD OF SUPERVISORS

County of San Luis Obispo, State of California

_____day _____, 20____

PRESENT: Supervisors

ABSENT:

RESOLUTION NO. ____

RESOLUTION AMENDING AND ESTABLISHING ONGOING REBATES FOR THE WATER CONSERVATION IMPLEMENTATION PLAN FOR THE LOS OSOS WASTEWATER PROJECT

The following Resolution is now offered and read:

WHEREAS, pursuant to AB 2701 (Blakeslee, 2006) (Government Code § 25825.5), the County of San Luis Obispo (County) has the authority to construct, operate, and maintain the Los Osos Wastewater Project (Project); and

WHEREAS, by its Resolution 2011-76, adopted on March 15, 2011 (Resolution Declaring Intention to Proceed with the Construction and Operation of a Wastewater Collection, Treatment and Disposal System), the County Board of Supervisors (Board) approved the Project; and

WHEREAS, on September 29, 2009, acting as the Lead Agency pursuant to CEQA Section 21067, the Board certified the Environmental Impact Report for the Project (FEIR), which includes a Water Conservation Program; and

WHEREAS, on June 11, 2010, the California Coastal Commission, acting as a Responsible Agency pursuant to Sections 21080.5(c) and 21069 of CEQA, issued Coastal Development Permit #A-3-SLO-09-055/069, which Condition #5 includes and requires a Water Conservation Program as part of a Los Osos Basin Recycled Water Management Plan (Basin Plan); and

WHEREAS, the Basin Plan, including the Water Conservation Program, was approved by the Director of the California Coastal Commission on May 22, 2012; and

WHEREAS, the Water Conservation Program provides that the County will develop a detailed implementation schedule that will set specific rebate and funding amounts for each conservation measure identified in the Water Conservation Program while acknowledging the likely need for ongoing rebate and education programs; and

WHEREAS, on October 23, 2012, the Board adopted a Water Conservation Implementation Plan (Implementation Plan) that outlines a detailed rebate process and budget for water conservation measures to achieve the goals of the Water Conservation Program; and

WHEREAS, one of the goals of the Implementation Plan is to maintain a flexible program to encourage total participation prior to connection to the Project; and

WHEREAS, a number of the conservation measures selected for implementation in the Implementation Plan include varying yearly rebate structures in order to incentivize early replacement of inefficient fixtures; and

WHEREAS, by its Resolution 2014-24, adopted on January 28, 2014, the Board extended the Year 1 rebate structure described in the Implementation Plan through December 31, 2014; and

WHEREAS, by its Resolution 2015-10, adopted on January 13, 2015, the Board extended the Year 1 rebate structure described in the Implementation Plan through December 31, 2017; and

WHEREAS, the conservation goal of 50 gallons per-day per-capita indoor water use is an ongoing requirement of Coastal Development Permit #A-3-SLO-09-055/069; and

WHEREAS, the Los Osos Basin Management Committee has requested that the Board amend the Implementation Plan to add additional rebates and establish rebates as on-going conservation measures; and

WHEREAS, the Director of Public Works has the authority to ensure that the Project and the Implementation Plan are carried out in full compliance with the applicable guidelines, permits, and agreements.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by the Board of Supervisors of the County of San Luis Obispo, State of California, that:

1. The Water Conservation Implementation Plan is hereby amended to include an ongoing rebate program as described in Exhibit A attached hereto and incorporated herein.

2. The action to amend and establish ongoing rebates in the Water Conservation Implementation Plan is consistent with the Water Conservation Program component of the Project described in the Project's FEIR certified on September 29, 2009 and the Coastal Development Permit issued on June 11, 2010 and no additional environmental review under CEQA is required because the amendment and extension of the rebate structure would not result in any new significant environmental impacts.

3. The Director of Public Works is directed to submit the amended Water Conservation Implementation Plan to the Executive Director of the California Coastal Commission for approval.

4. The Director of Public Works is authorized when appropriate to certify that the County of San Luis Obispo has and will comply with all applicable state statutory and regulatory requirements related to any state grant funds received in order to carry out the Water Conservation Implementation Plan.

Upon motion of Supervisor _____, seconded by Supervisor _____, and on the following roll call vote, to wit:

AYES:
NOES:
ABSENT:
ABSTAINING:

the foregoing Resolution is hereby adopted on the ____ day of _____, 20___.

_____
Chairperson of the Board of Supervisors

ATTEST:

_____
Clerk of the Board of Supervisors

[SEAL]

APPROVED AS TO FORM AND LEGAL EFFECT:

RITA L. NEAL
County Counsel

By: _____
Deputy County Counsel

Dated: May 17, 2017
L:\LOWWP\2017\June\BOS\LOWWP Rebate Ext\LOWWP ExtRebates rsl.docx MH:jb

STATE OF CALIFORNIA, }
County of San Luis Obispo, } ss.

I, _____, County Clerk and ex-officio Clerk of the Board of Supervisors, in and for the County of San Luis Obispo, State of California, do hereby certify the foregoing to be a full, true and correct copy of an order made by the Board of Supervisors, as the same appears spread upon their minute book.

WITNESS my hand and the seal of said Board of Supervisors, affixed this _____ day of _____, 20 _____.

_____
County Clerk and Ex-Officio Clerk of the Board of Supervisors

(SEAL)

By _____
Deputy Clerk.

EXHIBIT A

Water Conservation Implementation Plan, Los Osos Wastewater Project **Proposed Rebate Program** *changes in italics*			
Measures Required for Connection to the Wastewater System			
Fixture or Appliance	*Existing Fixture Flow Rate*	*New Fixture Flow Rate Eligible for Rebate*	*Rebates*
Toilets Residential & Commercial	Greater than 1.6 gpf	1.28 gpf or less	$250
Showerheads Residential & Commercial	Greater than 2.0 gpm	1.5 gpm or less	$40
Faucet Aerators Residential	Greater than 1.5 gpm	1.5 gpm or less	$5
Faucet Aerators Commercial	Greater than 0.5 gpm	0.5 gpm	$5
Urinals Commercial	Greater than 1.0 gpf	0.5 gpf or less	$500
Pre-rinse Spray Valves Commercial	Greater than 1.15 gpm	1.15 gpm or less	N/A
Optional Measures Eligible for Rebates (Requires Connection to the Wastewater System and Compliance with Above Measures)			
Toilets Residential & Commercial	Equal to 1.6 gpf	~~1.0~~ *1.28* gpf or less	$250
Washers Residential & Commercial	Less than Tier 3, Water Factor 4	Tier 3, Water Factor 4 or Less	~~$150~~ *$450 (1)*
Hot Water Recirc System *Residential & Commercial*	*N/A*	*N/A*	*$350*
Showerheads *Residential & Commercial*	*1.5 gpm or more*	*Less than 1.5 gpm*	*$40*
Complete Gray Water System	*N/A*	*N/A*	*$500*
Laundry only Gray Water System	*N/A*	*N/A*	*$50*
Recycled Water Irrigation *Commercial & Institutional*	*N/A*	*N/A*	*negotiated*
~~Alternative Measures~~	~~1.28 gpf toilet~~ ~~1.5 gpm showerhead~~ ~~1.5 gpm faucet aerators~~	~~Needs prior approval~~	~~$300~~

gpf = gallons per flush
gpm = gallons per minute

NOTES: (1) Rebate not retroactive to prior

TO: **Los Osos Basin Management Committee**

FROM: **Rob Miller, Interim Executive Director**

DATE: **July 13, 2017**

SUBJECT: **Item 7c. Cuesta by the Sea Monitoring Well**

Recommendations
Receive report and provide input to staff for future action.

Discussion
The installation of a new monitoring well in the Cuesta by the Sea area will provided a critical tracking tool for seawater intrusion. The northerly limits of the seawater front are currently estimated from limited data sources. The installation of the monitoring well was attempted in 2004 using funds from the Department of Water Resources, but the installation was unsuccessful due to a collapsed bore hole. Staff is proposing to advance the monitoring well project using unspent BMC funds for calendar year 2017. The new monitoring well would have the following characteristics:

- Nested multi-zone well with perforations in Zone D and Zone E, both of which measure the lower aquifer
- Alternative pricing in the bid package for an additional screened interval in Zone C, which measures the upper aquifer
- The well would be located within the public right-of-way, but it may require short term street closures or the temporary use of private property
- The well would be constructed for both water level and water quality monitoring
- The approximate location of the well is shown in Figure 1

Funding
The total cost of the well is estimated at $100,000 for construction, and $15,000 for engineering services through construction. The total recommended project budget is **$120,000** including a $5,000 contingency. The following line items from the calendar year 2017 BMC budget could be considered for construction of the well:

2017 Budget Item	Description	Available Funding Amount
4	Legal counsel (special counsel for funding measure):	$10,000
10	Funding measure including Proposition 218 process	$100,000
Contingency	10% Contingency	$26,400
Totals		**$136,400**

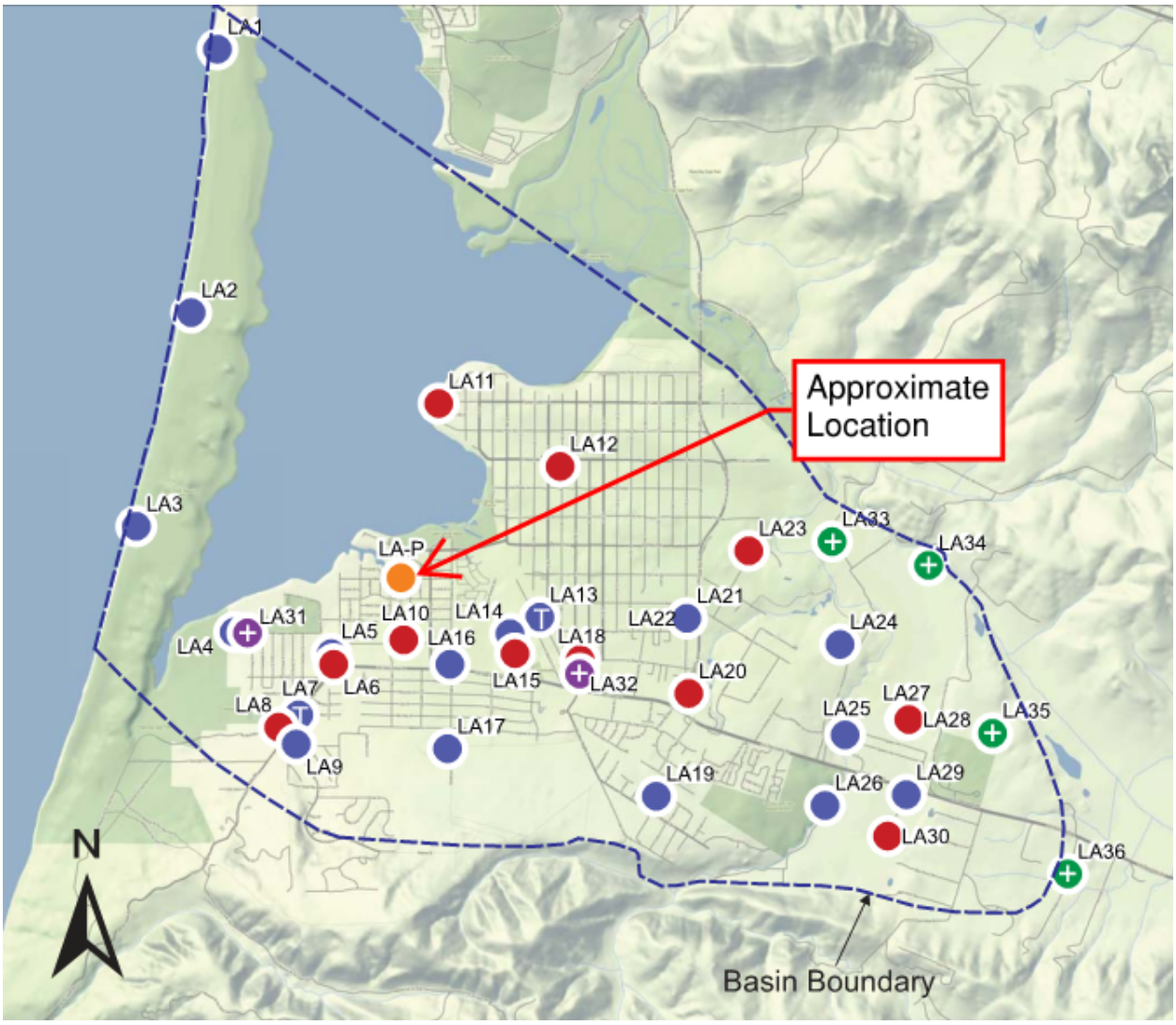


Figure 1: Approximate Location for Monitoring Well