



UTILITIES ADVISORY COMMITTEE MEETING

Wednesday, July 15, 2020 at 5:30 p.m.

Pursuant to Governor Newsom's Executive Order N-29-20, and State and County Shelter at Home orders, Committee Members, staff and public may participate in this meeting via teleconference and/or electronically. The LOCSD Boardroom will NOT be open for accessing the meeting.

For quick access, go to <https://us04web.zoom.us/j/114611628>
(This link will help connect both your browser and telephone to the call)
OR dial 1 (929) 205-6099 or 1 (301) 715-8592 and enter **114 611 628**

All persons desiring to speak during any Public Comment can submit a comment by:

- Through email at ldurban@losososcscsd.org by 12:00pm on 7/15/2020
- Through the district website www.losososcscsd.org/contact-us by 12:00pm on 7/15/2020
- Through teleconference by phone at (929) 205-6099 or (301) 715-8592 and enter **114 611 628**
- Through mail by 5:00 PM on the day prior to the Committee meeting sent to LOCSD
- Through teleconference meeting at <https://us04web.zoom.us/j/114611628>

AGENDA

1. **Opening at 5:30 p.m.**
Call to Order, Roll Call
2. **Approve UAC Meeting Minutes of May 20, 2020**
(Recommend Committee Approval)
Presented By: Administrative Services Manager Durban
3. **Basin Management Committee Update**
(Updates Only)
Presented By: Chairperson Cesena
4. **Utility Department Report**
Presented By: General Manager Munds
5. **Utilities Department Updates**
Presented By: General Manager Munds
6. **Los Osos Community Plan Update – Water Issues**
(Discussion and Recommendations)
Presented By: General Manager Munds
7. **Public Comments on Items NOT on this Agenda:** At this time, the public may comment on items not on this agenda. Each commenter is limited to 3 minutes and shall address the Chairperson.
8. **Schedule Next UAC Meeting** – The next UAC Meeting will be held Wednesday, August 19, 2020 at 5:30 p.m. unless otherwise noted.
9. **Closing Comments by UAC Committee Members**
10. **Adjournment**

**DRAFT - Minutes of the Utilities Advisory Committee Meeting
May 20, 2020 at 5:30 p.m. at the District Office**

AGENDA ITEM	DISCUSSION	FOLLOW-UP
1. Call to Order, Flag Salute and Roll Call	<p>Chairperson Cesena called the meeting to order at 5:30 p.m.</p> <p><u>Roll Call:</u> James Bishop, Committee Member – Present Jan Harper, Committee Member – Present Leonard Moothart, Committee Member – Present Eric Silva, Committee Member – Present Matthew Fourcroy, Vice Chairperson – Present Chuck Cesena, Chairperson – Present</p> <p><u>Staff:</u> Ron Munds, General Manager Jose Acosta, Utility Systems Manager Laura Durban, Administrative Services Manager</p>	
2. Approve UAC Minutes of April 15, 2020	<p>Administrative Services Manager Durban presented the minutes for approval.</p> <p>Public Comment – None</p> <p>Committee Member Moothart mentioned that Agenda Item 9 had the wrong date for the next meeting.</p> <p>Administrative Services Manager Durban responded that she would fix that for the approved minutes.</p> <p>Committee Member Harper moved to approve the meeting minutes of April 15, 2020 correcting the date in Agenda Item 9. The motion was seconded by Committee Member Bishop and carried with the following vote:</p> <p>Ayes: Committee Member Harper, Bishop, Moothart, Silva Nays: None Abstain: None Absent: None</p>	Action – File approved minutes correcting the date for the next UAC meeting in Agenda Item 9.
3. Basin Management Committee Update	<p>General Manager Munds provided a summary of the Basin Management Committee Meeting commenting on the Financing Program, Stormwater Plan, Potential Grant Funding, Budget, a discussion on the Strategic/Implementation Plan, Annual Report, payment procedures, and the Agenda Packet being available on the website if the UAC would like more detailed information.</p> <p>Committee Member Bishop inquired if the BMC had discussed the impact on extraction from the Basin due to more use because of Corona Virus.</p> <p>Chairperson Cesena inquired if the JPA Discussion occurred.</p> <p>General Manager Munds responded that the BMC has not discussed impact due to COVID-19 and that LOCS D water usage is slightly up but not as drastic as expected; there was no discussion on the JPA at the BMC meeting.</p> <p>Public Comment – None</p>	Action – None
4. Utilities Department Report	<p>Utility System Manager Acosta provided a summary of the March 2020 activities of the Utilities Department as submitted in the agenda packet reporting total water production; the District produced 12.6 million gallons, 54.5 gallons per day per person, an increase from last year; he reported on production and runtime at the well sites; water billing information, Utilities Department operations and maintenance including water sampling, service line update, monthly meter reading, service line upgrades, large meter replacements, groundskeeping, and rainfall totals.</p>	Action – None

AGENDA ITEM	DISCUSSION	FOLLOW-UP
4. Utilities Department Report (continued)	<p>Chairperson Cesena commented that April may have an uptick in water usage.</p> <p>Committee Member Moothart inquired on the prognosis of the South Bay Well.</p> <p>USM Acosta responded discussing the partial rehab and the full rehab for the South Bay Well.</p> <p>Public Comment – Julie Tacker inquired about the South Bay Well being out of service in March 2019 and March 2020; commented on Palisades percentage.</p> <p>USM Acosta responded why the well was down in March of 2019 and 2020.</p>	
5. Utilities Department Update	<p>Utility Systems Manager Acosta reported on updates regarding the 8th Street Water Yard Building, Lead and Copper Sampling, CCR completion, RFP's for 10th Street exterior coating and South Bay Well relining projects.</p> <p>General Manager Munds reported on updates regarding the South Bay Well interior, Program C Well, and SCADA Contract.</p> <p>Chairperson Cesena inquired about the Lead and Copper testing, the missed year of testing, and why the test must be done in the summer.</p> <p>USM Acosta responded that the Lead and Copper testing occurs once every three years and the District missed the small window last year, the District did not receive any fines but the State directed the District to collect this year; the test is done in July as it is a warmer month.</p> <p>Public Comment – Lynette Tornatzky commented that the Chamber of Commerce is currently closed and inquired how the CCR Report would be made available there.</p>	Action – None
6. Preliminary Budget Presentation	<p>General Manager Munds presented the Preliminary Budget.</p> <p>Committee Member Moothart inquired which Fund declined the 218 process; about Zone A property tax and if the rate study from 2019 took into consideration the decrease of Zone A Property Tax; how SCADA was split.</p> <p>General Manager Munds commented that Vista De Oro is due to payoff in 2022; on Water Reserves being healthy.</p> <p>Public Comment – Julie Tacker commented that Vista De Oro did not pass the 218 vote; on the Zone A Property tax percentage and that Water Fund should not receive any funding from it; inquired about the amount of decrease per house for Bayridge Property Tax</p> <p>Committee Member Harper moved to make a recommendation to the Board that they approve the Budget for Fund 200, 400, 500, & 800 as presented. The motion was seconded by Committee Member Moothart and carried with the following vote:</p> <p>Ayes: Committee Member Harper, Moothart, Bishop, Silva Nays: None Abstain: None Absent: None</p>	Action – Recommend the Board approve the Budget for Fund 200, 400, 500 & 800 as presented.
7. Public Comments on Items NOT on this Agenda	<p>Julie Tacker thanked General Manager Munds for the Budget being very understandable; commented on the Sewer Rate Increase and protest votes going to empty lots, and some protest ballots that had notes not being delivered to the Board of Supervisors.</p>	

AGENDA ITEM	DISCUSSION	FOLLOW-UP
8. Schedule Next UAC Meeting	The next meeting of the Utilities Advisory Committee is scheduled to be held on Wednesday, June 17, 2020 at 5:30 p.m., unless otherwise noticed.	
9. Closing Comments by UAC Committee Members	Committee Member Harper commented that if Zona A tax money is removed from the Water Fund, she would like to see the effect monetarily. Committee Member Moothart thanked the staff for the preparation for the meeting, for the great work on the Budget, and for the work done on the Grant.	
11. Adjournment	The meeting adjourned at 6:33 p.m.	

DRAFT



July 15, 2020

TO: LOCSO Board of Directors

FROM: Jose Acosta, Utility Systems Manager
Frank Asuncion, Water Resource Crew Leader
Alicia Zuniga, Utility Billing Specialist

SUBJECT: **Agenda Item 4 - 7/15/2020 Utility Advisory Committee**
Utilities Department Report for **May 2020**

President
Charles L. Cesena

Vice President
Christine M. Womack

Directors
Matthew D. Fourcroy
Vicki L. Milledge
Marshall E. Ochylski

General Manager
Ron Munds

District Accountant
Robert Stilts, CPA

Unit Chief
Scott M. Jalbert

Battalion Chief
Paul Provence

Mailing Address:
P.O. Box 6064
Los Osos, CA 93412

Offices:
2122 9th Street, Suite 110
Los Osos, CA 93402

Phone: 805/528-9370
FAX: 805/528-9377

www.losososcsd.org

WATER PRODUCTION INFORMATION

The total production for the month of **May 2020** was approximately **15.9 million gallons (MG)** this equates to an average daily demand of **511,600** gallons. This represents an **increase** in production from last year by approximately **5.03%**.

Using the state's formula to calculate residential usage per capita per day, for the month of **May 2020** our residential customers used 68.5 gallons per person per day, an increase from 65.2 gallons per person per day in May 2019.

PRODUCTION AND RUNTIME HOURS BY WELL SITE

The following tables break down the production by well site and runtime on the pump motors for the month of **May 2020**. Totals for last year are included for comparison:

Production (MG) May	2020	2019	% Change
Palisades	3.65	3.62	118.1
3 rd Street/Bayside	0	0	0
8 th Street/EI Moro	5.00	6.09	-40.8
10 th Street	4.47	5.39	-35.6
South Bay (lower)	2.18	0.00	0.0
South Bay (upper)	0.56	0.00	229.4
TOTAL:	15.86	15.10	

Runtime (Hours) May	2020	2019
Palisades	177.9	176.1
3 rd Street/Bayside	0.7	0.2
8 th Street/EI Moro	274.1	301.0
10 th Street	290.9	312.2
South Bay (lower)	734.2	7.4
South Bay (upper)	332.7	0.8
TOTAL:	1810.5	797.7

WATER BILLING INFORMATION

Forty-three percent of the service area received bills for approximately **10.99 MG** consumption for the period of March 10, 2020 through May 12, 2020. This generated approximately **\$202,963.74** in revenue.

UTILITIES DEPARTMENT OPERATIONS AND MAINTENANCE

During the month of May 2020, the Utilities crew performed all required operations and maintenance tasks. The various tasks and facilities maintained are:

WATER DISTRIBUTION AND TREATMENT

- Daily, weekly, and monthly water quality sampling, analysis and reporting, for all well sites and throughout the distribution system.
- Monthly meter reading.
- Grounds keeping at well and drainage sites.

DRAINAGE WDID # 3 40M2000133

The District continue to operate and comply with the General National Pollutant Discharge Elimination System (NPDES) Permit for storm water discharges for small Municipal Separate Storm Sewer Systems (MS4). Storm water pollution prevention measures are available on the District's Drainage web page: <http://www.losososcsd.org/drainage-e293b4b>

RAINFALL TOTALS

The County has a link to rain and reservoir information: <http://wr.slocountywater.org/home.php> below is a table of historical rainfall totals from the Los Osos Landfill rain monitor. This has been arranged to coincide with our Water Shortage Contingency Plan Climate Trigger which is based on rainfall measured from April 1st through March 31st.

Station Name and Number													Los Osos Landfill # 727			
Water Year	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	Total			
2020-2021	1.89	0.12											2.01			
2019-2020	0.08	1.53	0.00	0.00	0.08	0.00	0.00	2.13	4.37	0.20	0.04	4.80	13.23			
2018-2019	0.79	0.00	0.00	0.00	0.00	0.00	0.43	3.75	1.14	6.14	6.90	3.94	23.09			
2017 - 2018	0.55	0.27	0.00	0.00	0.00	0.16	0.16	0.47	0.12	3.78	0.16	7.95	13.62			
2016 - 2017	0.20	0.00	0.00	0.00	0.00	0.00	1.65	2.76	3.39	9.02	7.65	1.34	26.01			
2015 - 2016	0.67	0.12	0.00	1.93	0.00	0.08	0.08	1.26	1.85	5.04	0.86	4.85	16.74			
2014 - 2015	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.28	5.20	0.08	0.91	0.43	7.61			
2013 - 2014	0.31	0.12	0.04	0.00	0.00	0.00	0.24	0.28	0.12	0.00	4.06	1.42	6.59			
2012 - 2013	2.24	0.00	0.00	0.00	0.00	0.00	1.18	1.69	2.64	1.02	0.67	0.43	9.87			

RECOMMENDATION

Staff encourages the Board to ask any questions they may have with regard to the aforementioned report or any other related item that may be listed separately as an agenda item.

Attachments

May 2020	8th St./ El Moro Well	3rd St./ Bayside Well	10th St. Well	South Bay Well	South Bay Upper Well	Palisades Well	All Wells TOTAL	Last Years TOTAL	Percent% Differential
Total Gallons Produced, Mgal	4.9955	0.0000	4.4715	2.1848	0.5610	3.6476	15.8605	15.1013	5.03%
Average Daily Flow, Mgal							0.5116	0.4871	
Total Gallons to Waste (Filter Backwash), Mgal	0.0219			0.0000	0.0700		0.0919	0.0341	
Total Gallons to Waste (System Flushing), Mgal							0.0000	0	
Distribution System Losses (Water Line Breaks), Mgal							0.0000	0	
Total Gallons Adjusted, Mgal	4.9736			2.1848			15.7685	15.30672	3.02%
Pump Runtime, total hours	274.1	0.7	290.9	734.2	332.7	177.9	1810.5	797.7	126.97%
Daily Avg. Runtime, hours/day	8.8	0.0	9.4	23.7	10.7	5.7			
Energy Used, kWatts	11276	37	12004	8411		0	31728	31254	1.52%
Eff. Ratio, kWatts/hr	41.14	52.86	41.27	11.46		0.00			
Chlorine Used, total gallons	75.0	0.0	36.6	36.2		29.1	176.8	148.4	19.14%
Aqua Mag, pounds	68.6		62.0	0.0		59.0	189.6	124	52.90%
Static water level, ft.	34.10	3.70	156.70	118.70	94.10	96.10			
Pump water level, ft.	148.60	N/A	277.80	162.10	116.20	187.50			
Draw-down level, ft.	114.50	N/A	121.10	0.00	0.00	91.40			
Gallons per minute	295	0	254	31	31	199			
Pressure, psi	94	0	49	64	58	54			

LOCSD Water Data

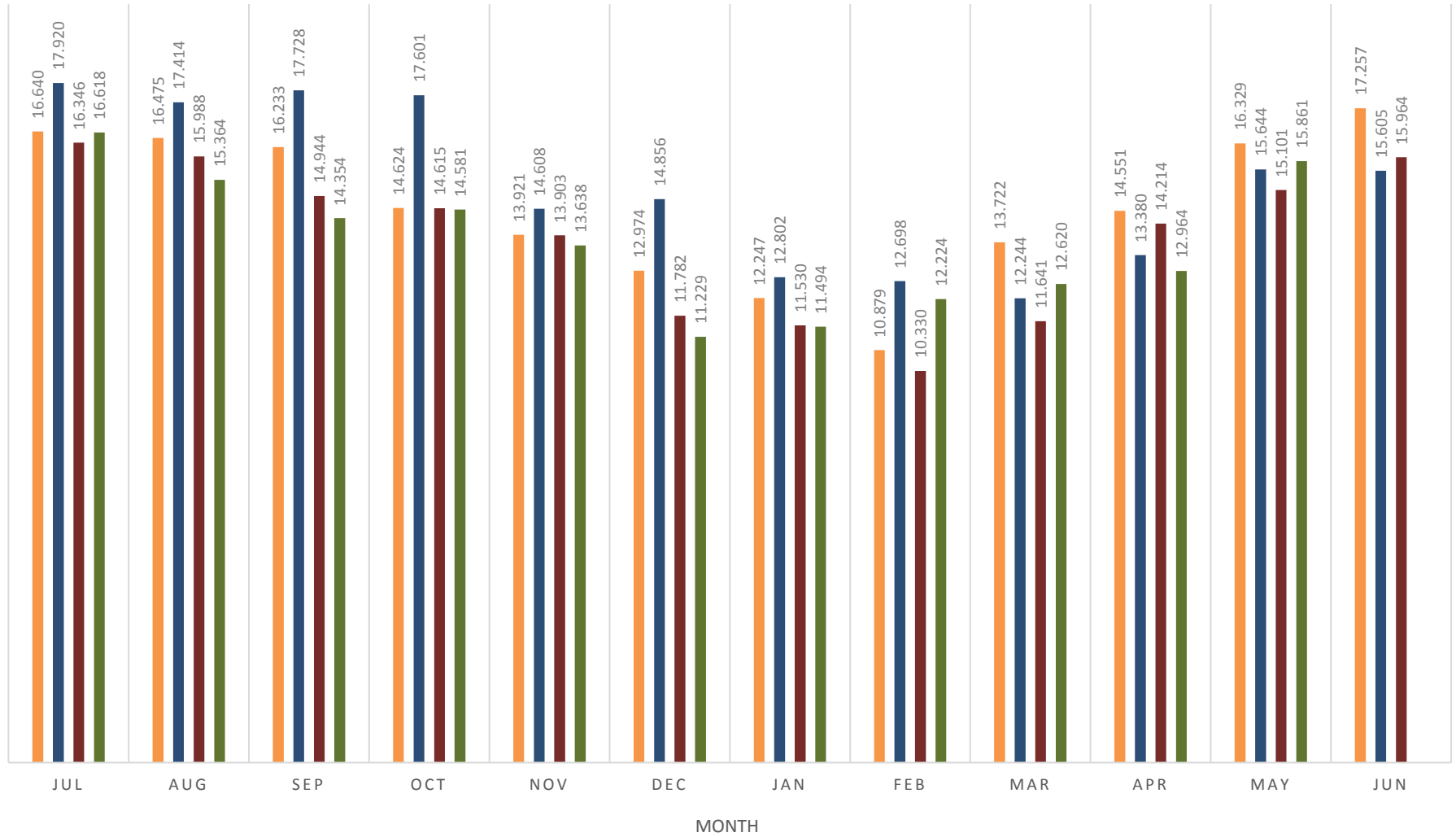
Water Production Data in Million Gallons				
	FY 16-17	FY 17-18	FY 18-19	FY 19-20
Jul	16.640	17.920	16.346	16.618
Aug	16.475	17.414	15.988	15.364
Sep	16.233	17.728	14.944	14.354
Oct	14.624	17.601	14.615	14.581
Nov	13.921	14.608	13.903	13.638
Dec	12.974	14.856	11.782	11.229
Jan	12.247	12.802	11.530	11.494
Feb	10.879	12.698	10.330	12.224
Mar	13.722	12.244	11.641	12.620
Apr	14.551	13.380	14.214	12.964
May	16.329	15.644	15.101	15.861
Jun	17.257	15.605	15.964	
TOTAL	175.852	182.500	166.357	150.947

Consumption is billed for a two month period every month.
 Revenue is based on gallons billed - not cash received.
 Production is recorded daily.

HISTORICAL TO PRESENT LOCS D WELL PRODUCTION DATA

■ FY2016-2017
 ■ FY2017-2018
 ■ FY2018-2019
 ■ FY2019-2020

MILLION GALLONS (MG)



LOCSD Water Data

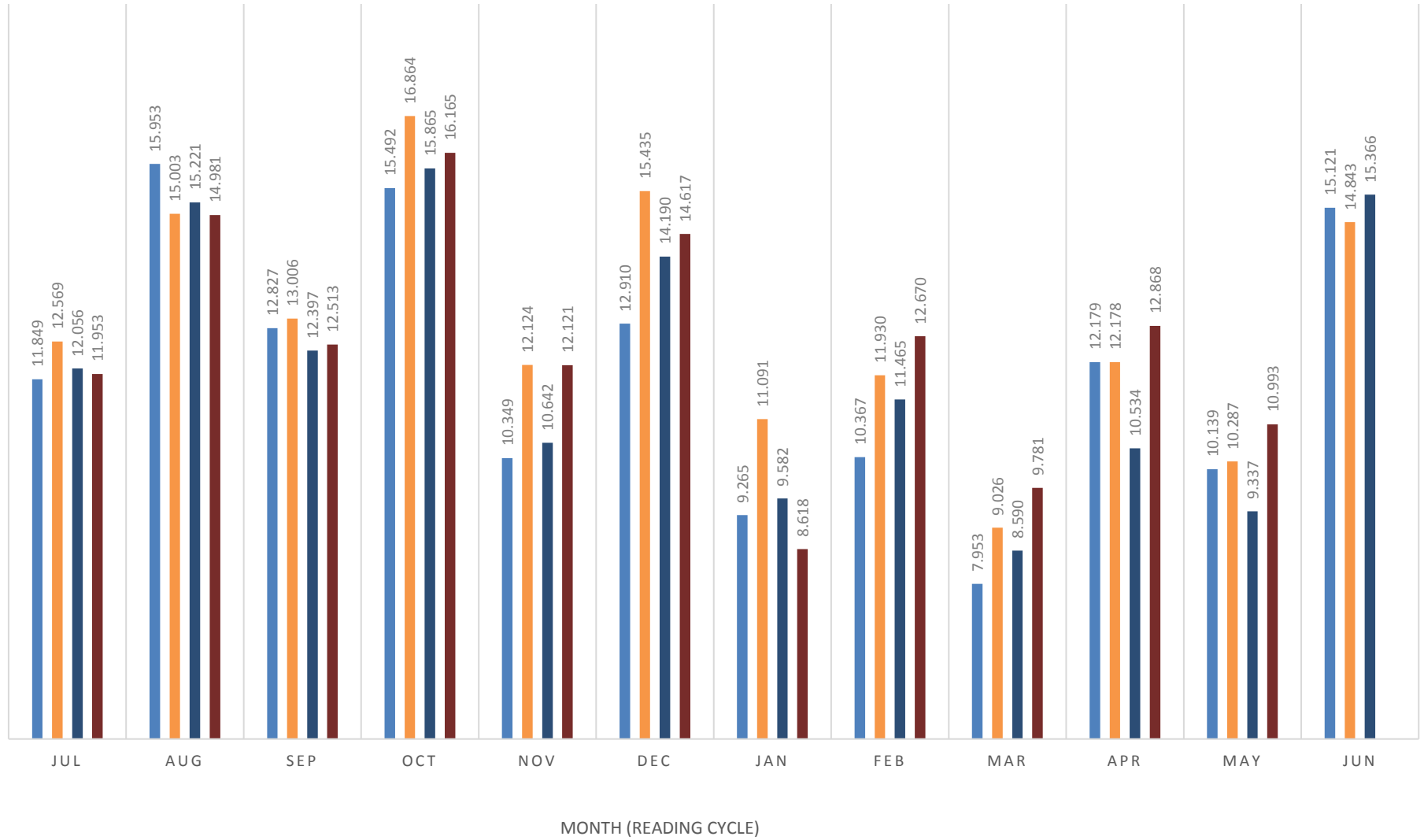
Water Consumption Data in Million Gallons						
% of Service Area	Billing Period		FY 16-17	FY 17-18	FY 18-19	FY 19-20
43	5/11 to 7/10	Jul	11.849	12.569	12.056	11.953
57	6/11 to 8/10	Aug	15.953	15.003	15.221	14.981
43	7/11 to 9/10	Sep	12.827	13.006	12.397	12.513
57	8/11 to 10/10	Oct	15.492	16.864	15.865	16.165
43	9/11 to 11/10	Nov	10.349	12.124	10.642	12.121
57	10/11 to 12/10	Dec	12.910	15.435	14.190	14.617
43	11/11 to 1/10	Jan	9.265	11.091	9.582	8.618
57	12/11 to 2/10	Feb	10.367	11.930	11.465	12.670
43	1/11 to 3/10	Mar	7.953	9.026	8.590	9.781
57	2/11 to 4/10	Apr	12.179	12.178	10.534	12.868
43	3/11 to 5/10	May	10.139	10.287	9.337	10.993
57	4/11 to 6/10	Jun	15.121	14.843	15.366	
TOTAL			144.405	154.356	145.245	137.279

Consumption is billed for a two month period every month.
 Revenue is based on gallons billed - not cash received.
 Production is recorded daily.

HISTORICAL TO PRESENT LOCS D WATER CONSUMPTION BASED ON BILLING

FY 16-17 FY 17-18 FY 18-19 FY 19-20

MILLION GALLONS (MG)



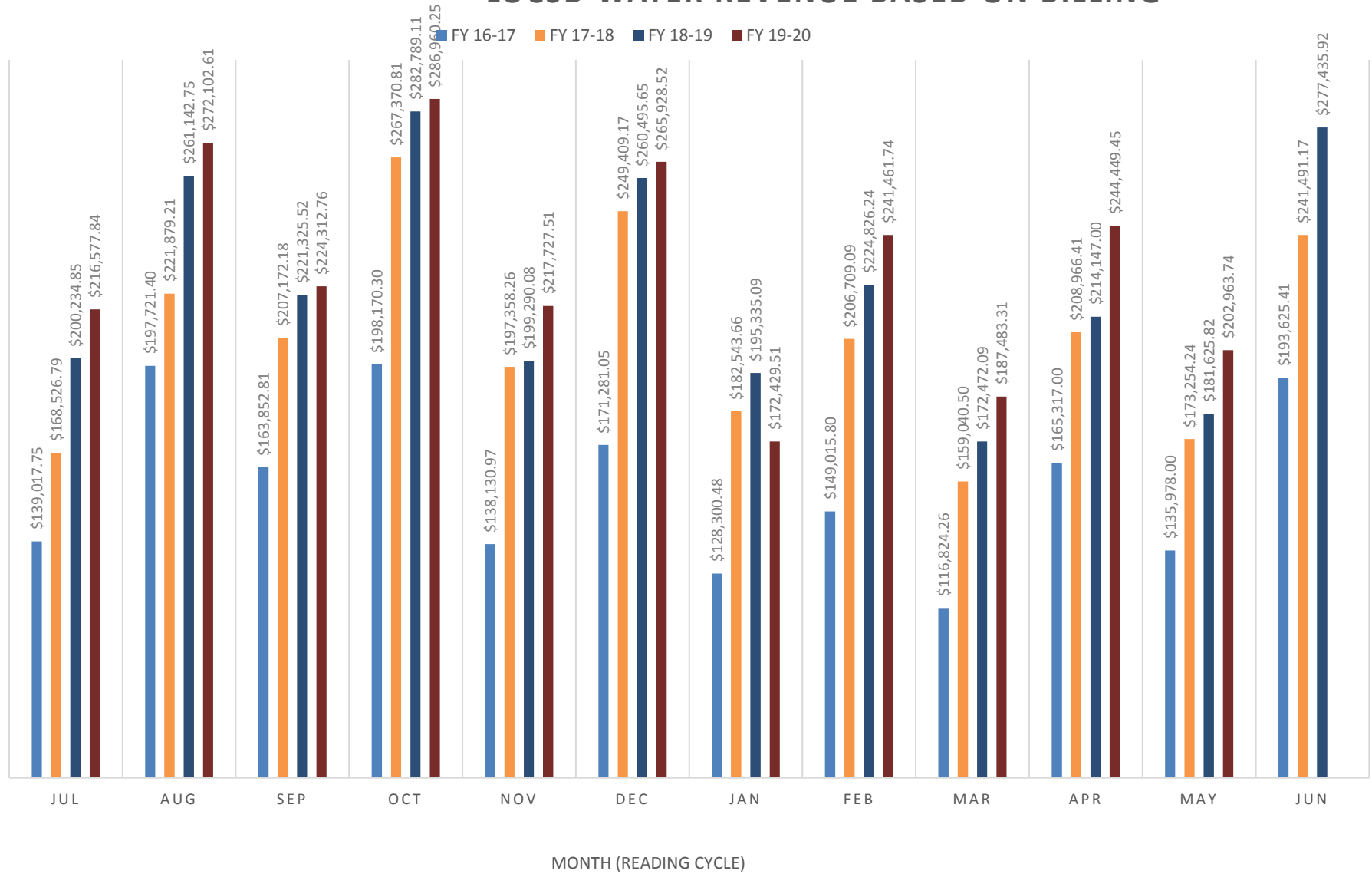
LOCS D Water Data

Water Revenue Data						
% of Service Area	Billing Period		FY 16-17	FY 17-18	FY 18-19	FY 19-20
43	5/11 to 7/10	Jul	\$139,017.75	\$168,526.79	\$200,234.85	\$216,577.84
57	6/11 to 8/10	Aug	\$197,721.40	\$221,879.21	\$261,142.75	\$272,102.61
43	7/11 to 9/10	Sep	\$163,852.81	\$207,172.18	\$221,325.52	\$224,312.76
57	8/11 to 10/10	Oct	\$198,170.30	\$267,370.81	\$282,789.11	\$286,960.25
43	9/11 to 11/10	Nov	\$138,130.97	\$197,358.26	\$199,290.08	\$217,727.51
57	10/11 to 12/10	Dec	\$171,281.05	\$249,409.17	\$260,495.65	\$265,928.52
43	11/11 to 1/10	Jan	\$128,300.48	\$182,543.66	\$195,335.09	\$172,429.51
57	12/11 to 2/10	Feb	\$149,015.80	\$206,709.09	\$224,826.24	\$241,461.74
43	1/11 to 3/10	Mar	\$116,824.26	\$159,040.50	\$172,472.09	\$187,483.31
57	2/11 to 4/10	Apr	\$165,317.00	\$208,966.41	\$214,147.00	\$244,449.45
43	3/11 to 5/10	May	\$135,978.00	\$173,254.24	\$181,625.82	\$202,963.74
57	4/11 to 6/10	Jun	\$193,625.41	\$241,491.17	\$277,435.92	
		TOTAL	\$1,897,235.23	\$2,483,721.49	\$2,691,120.12	\$2,532,397.24

Consumption is billed for a two month period every month.
 Revenue is based on gallons billed - not cash received.
 Production is recorded daily.

HISTORICAL TO PRESENT LOCS D WATER REVENUE BASED ON BILLING

U. S. DOLLARS \$





July 15, 2020

TO: UAC Members

FROM: Ron Munds, General Manager

SUBJECT: Agenda Item 5 – 07/15/2020 UAC Meeting
Utilities Department Update.

DESCRIPTION

This report provides an update on the projects and activities the Utilities Department have been pursuing.

President
Charles L. Cesena

Vice President
Christine M. Womack

Directors
Matthew D. Fourcroy
Vicki L. Milledge
Marshall E. Ochylski

General Manager
Ron Munds

District Accountant
Robert Stilts, CPA

Unit Chief
Scott M. Jalbert

Battalion Chief
Paul Provence

Mailing Address:
P.O. Box 6064
Los Osos, CA 93412

Offices:
2122 9th Street, Suite 110
Los Osos, CA 93402

Phone: 805/528-9370
FAX: 805/528-9377

www.losososcscsd.org

STAFF RECOMMENDATION

Review and Discuss

Utility Department Updates

1. FY 2020-21 Budget

- The Board adopted the FY 2020-21 budget at their July 2nd meeting. The only significant change to the Fund 500 budget from the preliminary budgeted presented to the UAC at the May meeting was a decrease in Zone A property tax allocation from 50% to 35% which equates to approximately a \$40,000 decrease in revenue.

2. 8th Street Water Yard Building

- Building construction is in progress with an estimated completion end of July, beginning of August

3. Lead and Copper Sampling

- The District will complete the Lead and Copper sampling of the residences, 20, in the month of July.
- Confirmation letters were mailed out in June.

4. Consumer Confidence Report Complete

- The CCR has been completed and is being distributed.
- They were mailed out with the monthly billing, half will be mailed out the month of May and second half mailed out with June Billing.
- We will also be made available for public at the Library and Chamber of Commerce.

5. The Invitation to Bid for 10th Street Exterior Coating Project (estimated project cost \$81,400)

- The Board approved the Invitation to Bid package at their July 2nd meeting. Bid package was posted on July 3rd with a submittal deadline of July 29th. Award of the contract in August with an estimated completion date of September 2020.

6. The Invitation to Bid for South Bay Well Transmission Main Project (estimated cost \$447,350)

- The Board approved the Invitation to Bid package at their July 2nd

meeting. Bid package was posted on July 3rd with a submittal deadline of July 29th. Award of the contract in August with an estimated completion date of November 2020.

7. Program C Well Update

- The District entered into an agreement with SWCA to perform an environmental constraints analysis of the five potential Program C well sites.
- Work is in progress with an estimated completion date in late August. The contract amount for this phase of the project is \$24,106.

8. SCADA Project Update

- Phase 1 on the project is underway. The District has contracted AECOM to complete the radio signal study to determine the requirements for data transmission and communication. This information will be used to complete the design and bid package for the project. Phase 2 will be for the actual design and construction of the system. The contract amount for this phase of the project is \$30,360. The estimated cost for the entire project is \$400,000.

9. South Bay Well Rehabilitation & Liner Installation Project (estimated project cost \$65,000 plus engineering support)

- This project was identified in the approved FY 2020-21 budget. The purpose of the project is to rehabilitate the well to extend the life for ten years or more. Staff is working on the scope of work and the bid documents.

10. Equipment Purchases Approved in FY 2020-21 Budget

- Replacement of Utility Truck Unit B. Staff is soliciting quotes by dealerships for the purchase of a ¾ ton utility truck. Estimated cost is approximately \$50,000.
- Replacement of the Vacuum Trailer. Staff is soliciting quotes from vendors to replace the existing trailer that is past its useful life. Estimated cost is approximately \$50,000.

11. Flume Rebate Program

- The program has been highly successful with 96 rebates issued to date. The District will continue the program this fiscal year and will start a new round of customer outreach in the near future.

12. 10th Street Well Issues

- The 10th Street well has been out of service for the last two weeks. The water crew was observing excessive air being pumped from the well into the distribution system before shutting it down. A video inspection of the well was performed with the results pending and as is the cost estimate to perform any remedial work that is needed.



July 15, 2020

TO: UAC Members

FROM: Ron Munds, General Manager

SUBJECT: Agenda Item 6 – 07/15/2020 UAC Meeting
Dart Los Osos Community Plan Update Water Resources

DESCRIPTION

President
Charles L. Cesena

Vice President
Christine M. Womack

Directors
Matthew D. Fourcroy
Vicki L. Milledge
Marshall E. Ochylski

General Manager
Ron Munds

District Accountant
Robert Stilts, CPA

Unit Chief
Scott M. Jalbert

Battalion Chief
Paul Provence

This report provides a summary of the County's recommendations in the Draft Los Osos Community Plan Update, Draft Growth Management Ordinance and revised Resource Summary Report regarding water resources and new development.

STAFF RECOMMENDATION

Review, discuss and provide direction

DISCUSSION

Background

The Board of Supervisors authorized preparation of this update on December 11, 2012. A Public Review Draft Community Plan (Plan) was released in January 2015. A series of community outreach meetings to unveil the Community Plan were conducted in the spring of 2015. According to the documents released by the County, the plan was prepared to be consistent and coordinated with the draft groundwater basin management plan and the draft Habitat Conservation Plan.

The first hearing of the Plan by the Planning Commission was held on July 9, 2020. The Planning Commission asked for additional information specifically on the water resource issues in the Plan and the relationship of water availability in regards to the draft Growth Management Ordinance. The item was continued to the August 13, 2020 Planning Commission meeting.

Key Elements and Assumptions in the Planning Documents

County Planning staff provided a detailed presentation to the Basin Management Committee (BMC) regarding the Plan update, revisions to the Resource Summary Report (RSR) and revisions to the draft Growth Management Ordinance (GMO) at their June 17, 2020 meeting. The Planning staff report and presentation from the BMC meeting are attached to this report for reference.

The proposed GMO amendment would establish a growth rate for new dwelling units in the Los Osos Urban Area of: 0% until the six Basin Plan Programs recommended for immediate implementation are complete, and 1.3% for five years once the programs are complete, as certified by a Board resolution, accounting for program modifications made through the Plan's adaptive management provision. The Planning staff report details implementation of the GMO. The six Basin Plan Programs are:

1. Program M – Groundwater Monitoring

Mailing Address:
P.O. Box 6064
Los Osos, CA 93412

Offices:
2122 9th Street, Suite 110
Los Osos, CA 93402

Phone: 805/528-9370
FAX: 805/528-9377

www.losososcsd.org

2. Program E – Urban Water Use Efficiency
3. Program U – Urban Water Reinvestment
4. Program A – Basin Infrastructure Program A
5. Program C – Basin Infrastructure Program C
6. Program P – Wellhead Protection Program

Of the programs, A and C have yet to be completed. The Program A upper aquifer well located at the 8th Street Water Yard is slated for completion during the first quarter of 2021. The Program C well is being studied at this time; a completion date has yet to be determined.

The County’s assumptions for water resource availability once the six programs are completed are 1) the Basin Yield Metric has been achieved, i.e. the metric is at or below 0.80, and 2) the Marginal Available Water Supply available because of achieving this Basin Yield Metric is 150 Acre Feet per Year (AFY). Cleath-Harris Geologists provided the updated basin yield numbers in the table below.

Program E+AC+U Yield Estimates		
	2015 Basin Plan	Updated Program U & C
Maximum Sustainable Yield (AFY)	3,000	2,810
80% of Maximum Sustainable Yield (AFY)	2,400	2,250
Assumed Agriculture Demand (AFY)	750	750
Average Urban Demand (AFY)	1,480	1,350
Total Estimated Demand (AFY)	2,230	2,100
Basin Yield Metric	0.74	0.75
Marginal Available Water Supply (AFY)	170	150
Estimated Water Level Metric ¹ (ft)	8	8
Estimated Chloride Metric ¹ (mg/L)	<100	<100
¹ Estimated Water Level and Chloride Metric values for (E+AC+U Program Combination) at steady-state conditions. Most recent estimates anticipate that the Basin will reach the assumed Steady-State conditions for the Water Level Metric in 2033.		

As referenced in the footnote of the above table, there are other metrics in the Basin Plan that will take more time to determine if the basin is in a “Steady State” position. The status of the other three Basin Metrics are as follows (source: 2019 BMC Annual Report):

LOBP Metric Summary-2019 Annual Report			
Metric	LOBP Goal	Calculated Value from 2018 Data	Recommended Actions in Addition to LOBP Programs
Basin Yield Metric	80 or less	69	Implement additional conservation measures to reduce indoor and outdoor demands (See Section 10.3.2)

Water Level Metric	8 feet above mean sea level or higher	1.8 feet above mean sea level	Implement additional conservation measures to reduce indoor and outdoor demands (See Section 10.3.2)
Chloride Metric	100 mg/L or lower	162 mg/L	Implement additional conservation measures to reduce indoor and outdoor demands (See Section 10.3.2)
Nitrate Metric	10 mg/L or lower	22 mg/L (NO ₃ -N)	None recommended

At the June 17th BMC meeting, the consensus of three water purveyors was that there needs to be more time and data analysis needed before proceeding with any new development. The other concern expressed is that there is no funding mechanism in place, as contemplated in the Basin Plan, for new development to pay its fair share of both past and future investments in the infrastructure needed to accommodate full build out as outlined in the draft Community Plan. The District and Golden State Water Company submitted letters to the Planning Commission to this effect (attached).

Staff encourages the UAC members to review the information in the Basin Plan prior to the meeting. The plan can be found at [https://www.slocounty.ca.gov/Departments/Public-Works/Forms-Documents/Committees-Programs/Los-Osos-Basin-Management-Committee-\(BMC\)/2015-01-Los-Osos-Groundwater-Basin-Plan.aspx](https://www.slocounty.ca.gov/Departments/Public-Works/Forms-Documents/Committees-Programs/Los-Osos-Basin-Management-Committee-(BMC)/2015-01-Los-Osos-Groundwater-Basin-Plan.aspx) . Attached is the Chapter 16 of the plan that summarizes the implementation of the Basin Plan. At a minimum, please review Chapter 16.4 which provides a synopsis of the implementation strategy.

Summary

Staff is requesting that the UAC provide input and opinions regarding the information provided in this report and associated attachments. Staff will convey the information gathered from the UAC meeting to the Board at their August meeting.

June 26, 2020



Ms. Kylie Hensley
Department of Planning and Building
County of San Luis Obispo
976 Osos Street, Room 300
San Luis Obispo, CA 93408

Dear Ms. Hensley,

Thank you for the opportunity to comment on the planning efforts underway for the community of Los Osos. The Los Osos Community Services District (CSD) is keenly aware of the amount time and energy the County's staff has given to this project and are appreciative of the effort. The CSD's comments are focused on the water issues and the references to the Basin Plan in the draft Los Osos Community Plan and incorporated by reference in the draft Growth Management Ordinance and Resource Summary Report.

President
Charles L. Cesena

Vice President
Christine M. Womack

Directors
Matthew D. Fourcroy
Vicki L. Milledge
Marshall E. Ochylski

General Manager
Ron Munds

District Accountant
Robert Stilts, CPA

Unit Chief
Scott M. Jalbert

Battalion Chief
Paul Provence

Since the finalization of the Los Osos Basin Plan (Plan) and the approval by the court as part of the integrated Stipulated Judgement in 2015, the three water purveyors in Los Osos have been actively implementing the programs described in the Plan. The results have been encouraging but the CSD is recommending that a very cautious and measured approach be taken when planning for new development to proceed. There are four metrics in the Plan (see attached table from the Basin Plan) to assist the water purveyors in measuring the effectiveness of the programs and projects. The 2019 data indicates the groundwater basin's health is improving but the CSD believes more time may be needed to be fully confident in the results. That said, it is important to understand that the intent of the metrics and the underlying objectives of the Plan are to stabilize and improve the sustainability of the water supply existing residents and businesses in Los Osos.

The CSD's other concern moving forward is there is no funding mechanism or fee structure in place that would assure new development pays it fair share of the costs to supply and deliver water to that development. To date, existing customers have borne the cost of the Basin Plan projects and administrative overhead through their rates and charges. A basin-wide AB 1600 fee study needs to be completed before any new connections can be considered by the CSD.

In summary, the CSD is requesting a cautious and measured approach to approving any new development in the CSD's service area. The variables that can impact the groundwater basin health have been analyzed extensively but it will take additional time to confirm if the trends are sustainable. The follow up concern is the fiscal impact to existing customer which will need to be addressed in front moving forward.

Thank you for your consideration of the information provided in this correspondence. Please feel free to reach out to me if you have any questions.

Sincerely,

Ron Munds
General Manager
Los Osos Community Services District

Mailing Address:
P.O. Box 6064
Los Osos, CA 93412

Offices:
2122 9th Street, Suite 110
Los Osos, CA 93402

Phone: 805/528-9370
FAX: 805/528-9377

Table ES-2. LOBP Metric Summary

Metric	LOBP Goal	Calculated Value from 2018 Data	Recommended Actions in Addition to LOBP Programs
Basin Yield Metric	80 or less	69	Implement additional conservation measures to reduce indoor and outdoor demands (See Section 10.3.2)
Water Level Metric	8 feet above mean sea level or higher	1.8 feet above mean sea level	Implement additional conservation measures to reduce indoor and outdoor demands (See Section 10.3.2)
Chloride Metric	100 mg/L or lower	162 mg/L	Implement additional conservation measures to reduce indoor and outdoor demands (See Section 10.3.2)
Nitrate Metric	10 mg/L or lower	22 mg/L (NO ₃ -N)	None recommended



COUNTY OF SAN LUIS OBISPO
DEPARTMENT OF PLANNING & BUILDING
TREVOR KEITH, *DIRECTOR*

To: Los Osos Basin Management Committee
From: County Department of Planning & Building, Long Range Planning Division
Date: June 17, 2020
Subject: Presentation regarding draft provisions of the Resource Summary Report, Growth Management Ordinance and Los Osos Community Plan

Background

Although the Stipulated Judgement for the Los Osos Basin states that "nothing in this Stipulated Judgment, the Basin Management Committee's authority established herein, or the Basin Plan is intended to modify or otherwise restrict the County's land use decision making authority," County land use planning documents must take into consideration the available water supply. Thus, in addition to utilizing the Los Osos Basin Plan ("Basin Plan") and the Committee's annual reports in the preparation of such documents, the County has also provided periodic presentations to / received input from the Committee. For example, County staff previously presented proposed language for the update to the Los Osos Community Plan and the Committee elected to send a comment letter in response on or about June 2017. Consistent with this historical practice and after discussions with the Executive Director, County Planning is providing a presentation on various draft land use planning documents to the Committee during the comment period and prior to their finalization and consideration by the Board of Supervisors.

Public Comment Period

Please email comments to khensley@co.slo.ca.us. Comments received by June 26, 2020 will be considered in staff report. Comments may be submitted to respective bodies until the dates listed below. Planning welcomes and encourages comments from both the Committee as well as from each of its respective members.

Dates

July 9, 2020 Planning Commission – Growth rate and Los Osos Community Plan
August 11, 2020 Board of Supervisors – Submittal of revised Resource Summary Report
August 18, 2020 Board of Supervisors (may be delayed) – Hearing to consider adopting growth rate and Los Osos Community Plan

Attached:

- 1) Presentation
- 2) Revised Los Osos water supply section of 2016-2018 Resource Summary Report
- 3) Growth Management Ordinance amendment
- 4) Growth rate calculations
- 5) Los Osos Community Plan, Los Osos Groundwater Basin Standard

Discussion

Draft Land Use Planning Documents

County Planning staff requests that the Committee receive a presentation on the following, all of which are discussed in more detail below:

- 1) Draft Revisions to the 2016-2018 Resource Summary Report (“RSR”) to better incorporate data from the 2016-2019 Basin Plan annual monitoring reports, which propose a Level of Severity III for the Basin Plan Area water supply, and
- 2) Draft revisions to the Growth Management Ordinance which propose a growth rate for new dwelling units in the Los Osos Urban Area, with some exemptions, that would remain 0% until the Basin Plan programs recommended for immediate implementation are complete and then 1.3% for 5 years, prioritizing the sewer service area waitlist, and
- 3) Provision in the draft Los Osos Community Plan that prohibits new non-residential development until the Basin Plan programs recommended for immediate implementation are complete.

Underlying Understanding Regarding Basin Plan Programs

The above-identified documents reflect Planning’s understanding from the Basin Plan that the following six programs are recommended for immediate implementation to meet existing water demand and halt and reverse seawater intrusion:

1. Program “M” – Groundwater Monitoring
2. Program “E” – Urban Water Use Efficiency
3. Program “U” – Urban Water Reinvestment
4. Program “A” – Infrastructure Program A
5. Program “C” – Infrastructure Program C
6. Program “P” – Wellhead Protection

Planning is aware that at least two expansion wells remain to be completed to shift groundwater production into the Upper Aquifer and inland: one well for Program “A” and one or two wells for Program “C” based on the groundwater-pumping capacity of the first expansion well in Program C.

If the Committee does not intend to proceed with completing these programs and/or intends to pursue alternate programs or measures either under the adaptive management provisions of the Basin Plan or through an amendment to the Basin Plan based on the status of the Basin (e.g., changes to the Sustainable Yield based on the results of what has been completed or changes in water use), this information would be helpful to know as Planning finalizes these documents. Planning has tried to account for the possibility of such revisions through reference to the Committee’s ability to engage in adaptive management (see below).

RSR and Level of Severity III Designation

The RSR assigns a LOS designation to a water supply based on the timeframe for the remaining estimated dependable water supply for forecasted demand – for coastal zone areas, the criteria is LOS I for 9 years, LOS II for 7 years, and LOS III if the existing demand already equals or exceeds the estimated existing dependable supply.

Although much progress has been made in Los Osos with construction of the Los Osos Water Reclamation Facility to remove the nitrate contamination point source, implementation of water use efficiency technologies to reduce water demand, reinvesting treated wastewater back into the hydrologic cycle, and construction of new wells, and the annual monitoring shows the seawater intrusion front has retreated from its 2016 position and a mounding effect at the Broderson leach field, the revised RSR continues to recommend a Level of Severity III for the Los Osos Basin Plan Area water supply because the programs recommended for immediate implementation in the Basin Plan to meet existing demand and halt and reverse seawater intrusion have not all been completed. Also, the estimated water supply based on modeling of the Basin is being verified with ongoing monitoring. The LOS may be reduced as the programs are completed and depending on monitoring results. The revised Los Osos water supply section of the RSR circulated for public review is included in Attachment 2.

Los Osos Community Plan and Growth Management Ordinance***Restrictions on New Development Until 6 Basin Plan Programs are Complete***

The draft Los Osos Community Plan and proposed amendments to the Growth Management Ordinance (“GMO”) would restrict new development until the six Basin Plan Programs recommended for immediate implementation are complete, as certified by the Board of Supervisors in an adopted resolution, accounting for program modifications made through the Basin Plan’s adaptive management provision. Affordable housing, accessory dwelling units, agricultural worker dwellings, and replacement dwellings would be exempt from these restrictions.

Growth Rate for New Dwelling Units in Urban Area after 6 Programs are Complete

The proposed amendments to the GMO would establish a growth rate for new dwelling units in the Los Osos Urban Area of 1.3% for five years once the six programs are certified complete by the Board of Supervisors. Affordable housing, accessory dwelling units, agricultural worker dwellings, and replacement dwellings would be exempt from these restrictions.

The advisory memo in Attachment 4 describes the growth rate calculation in detail. The draft Los Osos Community Plan estimates 6,321 existing dwelling units and 8,182 dwelling units at buildout for a 20-year planning horizon. The 1.3% growth rate was calculated using the formula for compounding annual growth rate because the GMO specifies the annual increase in new dwelling units shall be based on the number of existing units, which will compound over time. The 20-year buildout timeframe of the draft Los Osos Community

Plan was used in the formula to allow the growth rate to be sufficient to allow residential buildout if maintained beyond the initial 5-year time period. 35% of the 1.3% annual increase is reserved for multi-family dwellings, and 80% of the annual increase allowed for single family dwellings is reserved for use within the sewer service area, with preference given to the existing waitlist for vacant lots in the sewer service area that have not been able to build until the Los Osos Community Plan and Community-Wide Habitat Conservation Plan are adopted.

The proposed growth rate would allow an annual increase of 82-86 new dwelling units each year, 11 outside and 71-75 within the sewer service area with an estimated 12-13 acre-feet per year (AFY) annual increase in water demand for five years, resulting a total increase of 421 new dwelling units and 63 AFY estimated increase in water demand over five years.

The proposed growth rate would allow for all of the dwelling units on the existing sewer service area waitlist (215 single family and 130 multi-family) to be built within 5 years of the Board certifying the completion of the Basin Plan Programs recommended for immediate implementation, if the maximum allocation of allowed new dwelling units is used each year.

The 63 AFY proposed estimated increase in residential urban water demand over five years is significantly less than the 500 AFY difference between 80% of the estimated sustainable basin yield once the six Basin Plan programs are complete (2,400 AFY) and 2019 total groundwater extraction (1,900 AFY).

Annual Review of Growth Rate

The draft Los Osos Community Plan and GMO amendments would:

- Require the growth rate to be reviewed annually based on the most recent annual monitoring report and adjusted if there are significant:
 - a. Changes in water usage rates for existing development,
 - b. Updates to the basin model,
 - c. Implementation of additional Basin Plan programs to increase sustainable yield, or
 - d. Evaluation that the Basin Plan programs are being less or more effective than predicted, including adjustments to the programs made through adaptive management; and
- Require the growth rate to be re-established after five years.

Flowchart for New Development

New Development in the Los Osos Urban Area

Now (June 2020)

Wastewater treatment plant cannot serve undeveloped parcels

Waitlist of 215 single family units and 130 multi-family units to apply for building permits inside the sewer service area

Average of 2 new dwellings per year outside the sewer service area



**Los Osos Community Plan and Habitat-Conservation Plan Adopted
Growth Management Ordinance Amendment Adopted**

Wastewater treatment plant may serve undeveloped parcels

No new development except exempt dwellings*



Basin Plan Programs M+E+U+AC+P Implemented

1.3% growth rate for 5 years for new dwelling units*
No restriction on non-residential growth

82-86 new dwelling units per year, 11 outside and 71-75 within the sewer service area
estimated 12-13 AFY annual increase in water demand

421 new dwelling units and 63 AFY estimated increase in water demand by year 5




**New Basin Plan Programs Implemented
Basin Management Committee Criteria for New Development Updated**

Re-evaluate growth rate

* Exempt dwellings include ADUs, affordable housing, agricultural worker dwellings, and replacement dwellings.

**Planning Provisions Related to the
Los Osos Water Supply**

Los Osos Basin Management Committee
June 17, 2020




COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

1

Background

- *The Stipulated Judgment, Basin Plan, or Basin Management Committee do not restrict or modify the County's land use decision making authority.*
- County Planning must consider the available water supply for Los Osos in the following land use planning documents:
 - Resource Summary Plan
 - Growth Management Ordinance
 - Los Osos Community Plan
- Planning referenced the Los Osos Basin Plan and annual monitoring reports for the most recent information.
- The Basin Management Committee may comment on draft land use planning documents.



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

2

Programs for Immediate Implementation

The land use planning documents reflect Planning’s understanding from the Basin Plan that six programs are recommended for immediate implementation:

1. Program “M” - Groundwater Monitoring

In place, ongoing annual reporting.

2. Program “E” - Urban Water Use Efficiency

99% complete, 44 properties remain to be retrofitted and connected to the Los Osos Water Reclamation Facility.

3. Program “U” - Urban Water Reinvestment

In place, ongoing supply of treated wastewater from the LOWRF to the Broderon and Bayridge Estates leach fields and Sea Pines Golf Course. New adaptive management efforts include creek discharge program and storm water recovery.



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

3

Programs for Immediate Implementation

4. Program “A” - Infrastructure Program A

One expansion well to be constructed.

5. Program “C” - Infrastructure Program C

One or two expansion wells to be constructed, depending on groundwater-pumping capacity of the first expansion well.

6. Program “P” - Wellhead Protection

Drinking Water Source Assessment and Protection surveys to be completed.

Overall Status:

- o Not complete. At least two expansion wells remain to be completed.
- o Modifications may be made through adaptive management or revising the Basin Plan.



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

4

Water Supply for Marginal Growth

- The Basin Plan estimates marginal growth would be allowed if water demand is less than 80% of sustainable yield.
- 2019 production of 1,900 AFY was less than the demand projected in the Basin Plan with Programs E+U+AC completed.

Table 46. Most Likely Program Combinations

Combination	Water Demand [†]	Sustainable Yield [‡]	Basin Yield Metric	Water Level Metric [§]	Chloride Metric [*]
Existing Population Scenario					
E+U+AB	2,230	3,170	70	10	60
E+U+AC	2,230	3,000	74	10	65
E+U+A+S	1,980	2,650	75	10	65
Buildout Population Scenario					
E+UG+ABC	2,380	3,350	72	9	70
E+U+ABCD	2,880	3,500	82	8	85
E+UG+ABCD	2,380	3,500	68	10	60
E+U+A+S	2,130	2,650	80		

[†] Expressed in AFY. [‡] Expressed in feet msl. ^{*} Expressed in mg/L.



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

5

Program Modifications

- If the Basin Management Committee does not intend to proceed with completing these six programs and/or intends to pursue alternative programs, this information would be helpful to know as Planning finalizes land use planning documents and updates them in the future.



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

6

Potential Programs for Buildout

Potential programs not yet initiated that could accommodate buildout:

- **Program “B” – Infrastructure Program B**
Construct a community nitrate removal facility and additional purveyor wells to maximize production from the Upper Aquifer.
- **Program “D” – Infrastructure Program D**
Construct additional purveyor wells to shift groundwater production within the Lower Aquifer inland to induce less seawater intrusion.
- **Program “G” – Agricultural Water Reinvestment**
Offset agricultural pumping with recycled treated wastewater.
- **Program “S” – Supplemental Water**
Offset groundwater pumping with supplemental sources
- **Adaptive Management Provisions**



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

7

Potential Programs for Buildout

Combination of Basin Plan Programs	New Program(s) to be Completed	Estimated Buildout Demand (AFY) ¹	Estimated Sustainable Basin Yield (AFY)	Projected Basin Metrics ²		
				Basin Yield	Water Level (feet above msl ³)	Chloride (mg/L)
M+E+U+AC+P	-	2,880	3,000	96	NE	NE
M+E+U+ABC+P	B	2,880	3,350	86	NE	NE
M+E+UG+ABC+P	B + G	2,380	3,350	72	9	70
M+E+U+ABCD+P	B + D	2,880	3,500	82	8	85
M+E+UG+ABCD+P	B + D + G	2,380	3,500	68	10	60
Target Basin Metric:				<80	8+	<100

Notes

- (1) Estimated buildout demand for the Basin Plan Area, based on the Estero Area Plan. The buildout demand for the Los Osos Community Plan is less than the Estero Area Plan.
 - (2) Source: Basin Plan, Table 46 Most Likely Program Combinations
 - (3) msl = mean sea level
- NE = Not evaluated in the Basin Plan.



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

8

Resource Summary Report

- Assigns Level of Severity (“LOS”) to a water supply based on the timeframe for the remaining estimated dependable water supply for forecasted demand. For coastal areas:
 - LOS I – 9 years remaining supply
 - LOS II – 7 years remaining supply
 - LOS III – existing demand already equals or exceeds supply
- The revised 2016-2018 Resource Summary Report conservatively recommends a **Level of Severity III** for the Los Osos Basin Plan Area water supply because:
 - Six Basin Plan programs recommended for immediate implementation are not all completed.
 - Annual monitoring is verifying program effectiveness.
- Level of Severity may be revised down as programs are completed and depending on basin monitoring results.



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

9

New Development in Los Osos

Now (June 2020)

Wastewater treatment plant cannot serve undeveloped parcels

Waitlist of 215 single family units and 130 multi-family units to apply for building permits inside the sewer service area

Average of 2 new dwellings per year outside the sewer service area



**Los Osos Community Plan and Habitat-Conservation Plan Adopted
Growth Management Ordinance Amendment Adopted**

Wastewater treatment plant may serve undeveloped parcels

No new development except exempt dwellings*

* Exempt dwellings include ADUs, affordable housing, agricultural worker dwellings, and replacement dwellings.



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

10

New Development in Los Osos

↓

Basin Plan Programs M+E+U+AC+P Implemented

1.3% growth rate for 5 years for new dwelling units*
No restriction on non-residential growth

82-86 new dwelling units per year, 11 outside and 71-75 within the sewer service area
estimated 12-13 AFY annual increase in water demand


421 new dwelling units and 63 AFY estimated increase in water demand by year 5

↓

New Basin Plan Programs Implemented
Basin Management Committee Criteria for New Development Updated

Re-evaluate growth rate

* Exempt dwellings include ADUs, affordable housing, agricultural worker dwellings, and replacement dwellings.




COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

11

Questions and Comments

- Email khensley@co.slo.ca.us.
- Comments received by June 26, 2020 will included in staff report.
- Comments may be submitted until the dates listed below to be considered by the respective bodies.
- Comments are welcome from both the Committee and each of its respective members.
- **July 9, 2020 - Planning Commission**
 - GMO growth rate and Los Osos Community Plan.
- **August 11, 2020 - Board of Supervisors**
 - Submittal of revised 2016-2018 RSR and introduction of GMO.
- **August 18, 2020 (tentative) - Board of Supervisors**
 - GMO growth rate and Los Osos Community Plan.



COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

12

16

IMPLEMENTATION OF THE BASIN PLAN

16.1 Introduction

Chapters 7 through 13 of this Basin Plan describe a collection of programs for potential implementation by the Parties and others in the Basin. Chapters 14 and 15 evaluate the effectiveness, cost and funding sources for various combinations of the programs. This Chapter 16 sets forth the actions that the Parties will undertake pursuant to this Basin Plan, along with a timeline for those actions.

16.2 The Basin Plan Process

16.2.1 *Public Review Process*

The Parties released a draft of this Basin Plan for public review on August 1, 2013, in recognition of the great interest of the public in water resources management in Los Osos. Public review also furthered the need to achieve public support for the actions recommended in this Basin Plan, especially in light of the need for voter approval of funding for the Basin Plan as set forth in Chapter 15.

Several public agencies provided comments on the draft Basin Plan, as well as a limited number of individual citizens. The Parties reviewed all comments provided and considered modifications to the Basin Plan based on each comment. The Parties did make several changes to the Basin Plan in response to comments, but did not incorporate every suggestion.

16.2.2 *Adoption of the Basin Plan*

It is the intention of the Parties to present this Basin Plan to each of their respective policy decision makers for adoption during the first half of 2015. Following adoption of the Basin Plan by each of the Parties, the Parties will jointly submit the Basin Plan and stipulated judgment to the Court for approval in the Adjudication by mid-2015. It is the goal of the Parties to obtain Court approval by the summer of 2015, although the Court's schedule may impact that timeline.

16.2.3 *Periodic Review of the Basin Plan*

This Basin Plan was prepared during the period from 2008 through 2014. It is expected that the Parties will gain significant additional understanding of the Basin

by implementing the Basin Plan actions. Management of a groundwater basin is always an iterative process, and management of the Basin is expected to be no exception. Therefore, the Parties will review the Basin Plan periodically to determine if additional data collection or technical analyses would be necessary or convenient, whether the metrics established in Chapter 6 should be modified, and whether the programs set forth in the Basin Plan have been implemented as planned and have had the predicted impact on the Basin, particularly with reference to seawater intrusion and nitrate concentrations. Such a review will occur at predetermined times set forth below and at regular intervals determined to be appropriate by the Parties thereafter.

16.2.4 Adaptive Management Plan

The purpose of the Adaptive Management Plan is to provide the final “check and balance” for the Basin Plan to ensure that the overall objectives of the groundwater basin are being met. Evaluating the groundwater basin on an annual basis allows the Basin Management Committee to:

1. Evaluate the trends of the groundwater basin
2. Identify any voids in the collected data
3. Report the data analysis to the various interested parties (Department of Water Resources, Regional Water Board, Coastal Commission)
4. Modify the Basin Plan based on the current conditions and visible trends of the groundwater basin
5. Modify procedures to utilize current best management practices
6. Modify pumping, treatment and/or reuse procedures if groundwater basin trends are showing signs of degradation of water quality, including increased levels of contamination and/or increased levels of seawater intrusion

Adaptive Management is used to provide guidance on the overall effectiveness of the Basin Plan and to provide a tool with which to modify the programs to better meet the overall Basin objectives. The Adaptive Management process is to ask and answer the following questions:

7. Are all Programs reaching targeted objectives? If yes, are there any factors that might change the Programs from continuing to reach targeted objectives? If no, why are the Programs not reaching targeted objectives?
8. What changes need to be made to reach the targeted objectives?
9. What is the schedule for getting the Programs back on target to reaching objectives?

Each program of the Basin Plan will contain an Adaptive Management analysis which will include the following:

10. Evaluation of recent changes made in prior years
11. Summary of recommendations and projected benefits
12. Project cost impact of program changes
13. Anticipated implementation schedule
14. Documentation and public information

If negative trends or subsequent failure to meet the success criteria occur, such trends are expected to occur slowly over several years, and will likely take equal or more time to reverse. Identified problem areas will be addressed through the Adaptive Management analysis to identify suitable remedial action.

16.3 Plan Implementation Timeline

16.3.1 *Groundwater Monitoring Program*

The Groundwater Monitoring Program established in Chapter 7 contains a number of actions by the Basin Management Committee to monitor and report on various measurements and metrics related to the Basin. Monitoring implemented as part of this program will be vital to understanding how other actions undertaken pursuant to the Basin Plan will impact the Basin.

The Groundwater Monitoring Program will be implemented in two phases: the first for establishment of the program, and the second for annual monitoring and reporting in all years. As shown in Table 58, the first phase will be conducted during the third and fourth quarters of 2014, and the second phase will be implemented at various points during each year beginning in the first quarter of 2015. Water level monitoring will take place in April and October of each year, with water quality monitoring also occurring each October for the constituents listed in Table 16 and Table 17. Precipitation and stream flow will be measured on a daily basis throughout the year.

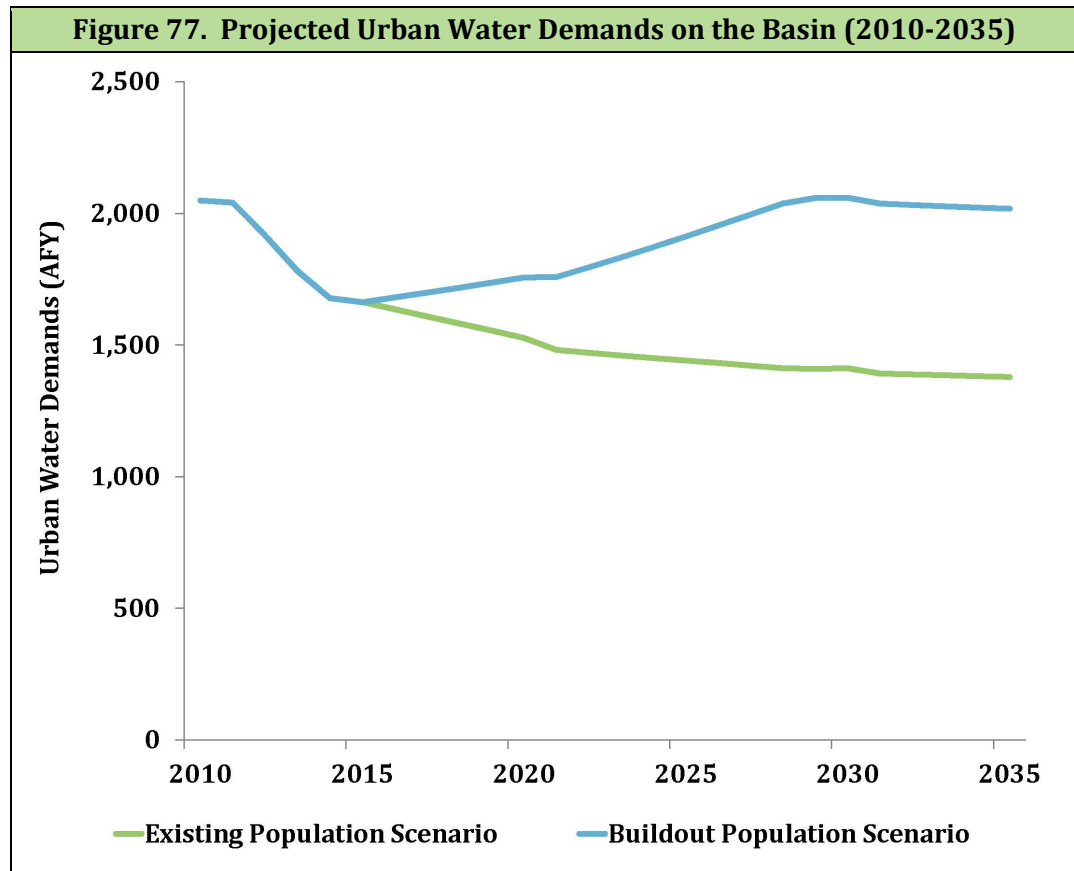
The annual report will be designed during establishment of the Groundwater Monitoring Program in 2014, but the first annual report will not be published until April 2015 based on monitoring data gathered during 2014 and groundwater production reported in the first quarter of 2015. That schedule will be followed in later years, subject to modification if deemed appropriate by the Parties or the Basin Management Committee.

Table 58. Groundwater Monitoring Program Schedule								
	2014				Later Years			
	1	2	3	4	1	2	3	4
Establish Program								
• Create electronic databases			■	■				
• Conduct wellhead surveys			■	■				
• Adopt monitoring protocols			■	■				
• Adopt reporting rules			■	■				
Monitoring Actions								
• Water level monitoring		■		■		■		■
• Water quality monitoring				■				■
• Precipitation monitoring	■	■	■	■	■	■	■	■
• Stream flow monitoring	■	■	■	■	■	■	■	■
Reporting Actions								
• Design annual report			■	■				
• Purveyors report production	■				■			
• Calculate Basin metrics		■				■		
• Publish annual report						■		

Actions by Basin Management Committee (■) and All Purveyors (■).

16.3.2 Urban Water Use Efficiency Program

Chapter 8 establishes an Urban Water Use Efficiency Program that seeks to reduce urban water demands on the Basin. Implementation will be in two phases, with the County responsible for most actions from 2013 through 2018 and the Purveyors assuming responsibility starting in 2019. The responsibilities of the various Parties are shown in Table 29 and Table 30. If the Urban Water Use Efficiency Program is implemented as set forth in Chapter 8, it is expected that urban water demands in the Basin will be as shown in Figure 77 for the Existing Population Scenario and Buildout Population Scenario.



16.3.3 Water Reinvestment Program

The Water Reinvestment Program established in Chapter 9 provides for the construction and operation of the LOWWP, which includes community wastewater collection and treatment facilities and a recycled water distribution system. The LOWWP will be constructed, owned and operated by the County. Recycled water will be delivered to users identified in Chapter 9, either by the County directly to those areas located outside a Purveyor's boundaries, or by the County pursuant to an agreement with the Purveyor in whose service area a user is located. This program has two phases: the Urban Water Reinvestment Program, which relies on recycled water produced under the Existing Population Scenario; and the Agricultural Water Reinvestment Program, which requires both the additional recycled water produced under the Buildout Population Scenario and the participation of agricultural water users overlying the Basin.

The schedule for implementing the Water Reinvestment Program is necessarily tied to the schedule for the LOWWP. As shown in Table 59, construction of the LOWWP wastewater collection and recycled water distribution systems has already commenced and is expected to be complete during the first half of 2014. Construction of the tertiary recycled water treatment plant is expected to begin in the first half of 2014 and be complete by the end of 2016. Connection of individual residences and businesses through sewer laterals will occur during 2016/2017.

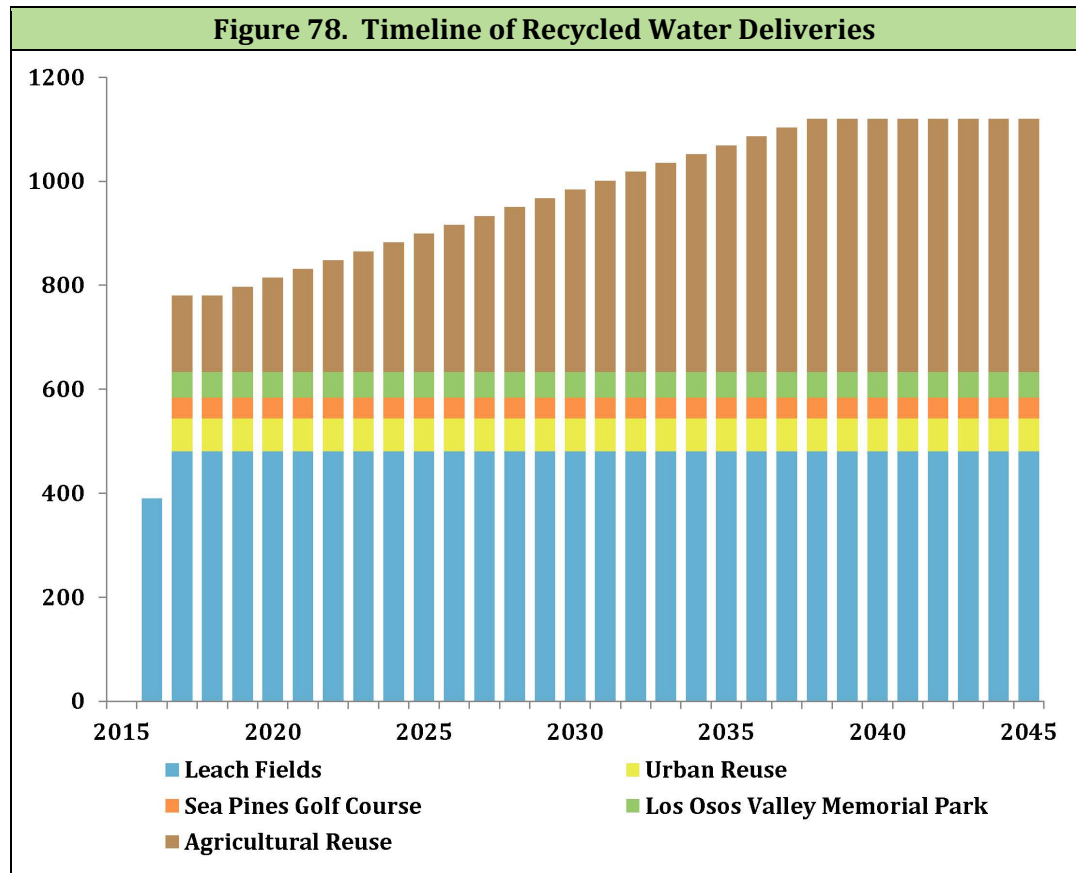
The LOWWP is currently projected to begin collecting and treating sewage from the Wastewater Service Area in 2016, with a steady increase in quantity as residences and businesses are connected to the project. Recycled water will first be delivered to the Broderson and Bayridge Estates leach fields, followed by initial deliveries to urban and agricultural reuse during the irrigation season of 2017.

Table 59. Water Reinvestment Program Schedule				
	2014	2015	2016	2017+
Construction				
Collection System	■			
Treatment Plant	■ ■	■ ■	■	
Recycled Water Distribution System	■			
Lateral Connections			■	■
Operations				
Wastewater Collection & Treatment			■	■ ■
Delivery to Leach Fields			■	■ ■
Delivery to Urban Reuse				■ ■
Delivery to Sea Pines Golf Course				■ ■
Delivery to Los Osos Memorial Park				■ ■
Delivery to Agricultural Reuse				■ ■

Actions by the County (■).

As described in Section 9.2.4, the LOWWP is not expected to generate its full quantity of recycled water at commencement of operations. During the first year of operations in 2016, the LOWWP will produce approximately 50 percent of its initial yield, or 390 AF. Starting in 2017, the LOWWP is expected to produce approximately 780 AFY of recycled water based on the Existing Population Scenario.

If the County and Coastal Commission were to authorize a LOCP and LOHCP that would enable land development and population growth in Los Osos, recycled water production could increase to approximately 1,120 AFY over the development period. In that event, the Parties may implement the Agricultural Water Reinvestment Program as a means to place all recycled water to beneficial use in the Basin. It is not expected that the LOCP and LOHCP would be completed before 2016, so that year is chosen as the proper time for the Los Osos community to decide whether to implement the Agricultural Water Reinvestment Program, with expenses as specified in Section 15.3. It would take approximately two years to build the necessary infrastructure, consisting of additional treatment capacity and recycled water storage facilities (see Section 9.4.1), and recycled water deliveries could begin as early as 2019. An illustrative timeline for deliveries of recycled water is shown in Figure 78, assuming that population growth is allowed in Los Osos over a 20-year period from 2019 through 2038.



16.3.4 Basin Infrastructure Program

The Basin Infrastructure Program set forth in Chapter 10 consists of four component programs, designated Programs A through D. Programs A and B would transfer groundwater production from the Lower Aquifer to the Upper Aquifer, and Programs C and D would shift production within the Lower Aquifer from the Western Area to the Central and Eastern Areas, respectively. As described in Chapter 14, the Parties have selected Basin Infrastructure Programs A and C for immediate implementation. The Parties have also determined that if the County and Coastal Commission were to allow future development in Los Osos pursuant to the LOCP and LOHCP, the Purveyors will implement Program B and either the Agricultural Water Reinvestment Program or Program D.

Table 60 sets forth the schedule for implementing Basin Infrastructure Programs A through D. The various actions under Program A have already been accomplished or will be implemented by early 2015. Purveyors will implement the Basin Plan program elements promptly following financing approval. The Parties expect this could occur by early 2017.

The LOCP and LOHCP, and consequently, the decision whether to implement the Agricultural Water Reinvestment Program or Basin Infrastructure Program D, are not expected to be finalized before 2016. The Parties would make such a decision with appropriate public input in an expeditious manner so that property owners are

not unreasonably delayed in their development efforts. Because any Basin Plan actions would require funding, implementation of Programs B and D would likely occur during 2017 and 2018 and be operational in 2019.

Table 60. Basin Infrastructure Program Schedule				
	By 2013	2014	2015 thru 2017	2018+
Program A				
Water Systems Interconnection		■ ■	■ ■	
Upper Aquifer Well		■	■	
South Bay Well Nitrate Removal	■	■		
Palisades Well Modifications	■			
Blending Project	■	■		
Water Meters	■			
Program B				
LOCSD Wells				■
GSWC Wells				■
Community Nitrate Removal Facility				■
Program C				
Expansion Well No. 1			■	
Expansion Well No. 2			■	
Expansion Well No. 3			■	
S&T/GSWC Interconnection			■	
Los Osos Valley Road Main Upgrade			■	
Program D				
Expansion Well No. 4				■
Expansion Well No. 5				■
Expansion Well No. 6				■

Actions by All Purveyors (■), LOCSD (■), GSWC (■) and S&T (■).

16.3.5 Supplemental Water Program

The Parties have not identified any components of the Supplemental Water Program for community-wide implementation. Residents and businesses overlying the Basin are encouraged to implement rainwater harvesting and greywater reuse on their individual properties, but there is no schedule for implementation of such actions.

16.3.6 Wellhead Protection Program

The Wellhead Protection Program consists of several programs that will be implemented by the Purveyors, the County or other agencies on a continuous basis. The various programs and the entities responsible for each are listed in Table 61.

Table 61. Wellhead Protection Program Schedule		
Program	Responsible Entity	2014+
Drinking Water Source Assessment and Protection	Purveyors	■
Well Abandonment	County	■
Well Standard	County	■
Point Source Discharges	RWQCB	■
Hazardous Materials Management	DTSC	■
Septic Systems Management	RWQCB	■
Los Osos Wastewater Project	County	■
Basin Plan	Basin Management Committee	■

Actions by All Purveyors (■), County (■),Basin Management Committee (■) and Others (■).

16.4 Conclusion

As described in the preceding sections, the various programs identified in this Basin Plan would be primarily implemented during the period from 2014 through 2018. The programs would be implemented in two phases, the first designed to achieve a sustainable Basin under the Existing Population Scenario and the second designed for the Buildout Population Scenario.

The programs designed to achieve a sustainable Basin under the Existing Population Scenario are listed in Table 62. As described in Chapter 15.2, the Parties intend to present the voters of Los Osos with a ballot measure in the fall of 2014 or spring of 2015 to approve issuance of bonds to finance implementation of those programs. If the voters approve the issuance of bonds, the Parties will proceed to implement the various actions on the schedule presented in Table 62.

Table 62. Implementation Schedule for EPS Programs						
Program	'14	'15	'16	'17	'18	'19
Approval of Basin Plan	■	■	■	■	■	■
Groundwater Monitoring Program	■	■	■	■	■	■
Urban Water Use Efficiency Program	■	■	■	■	■	■
Urban Water Reinvestment Program	■	■	■	■	■	■
Basin Infrastructure Program A	■	■	■	■	■	■
Basin Infrastructure Program C	■	■	■	■	■	■
Wellhead Protection Program	■	■	■	■	■	■

Actions in Process (■), Actions Complete (■), and Decision Points (■).

The programs designed to achieve a sustainable Basin under the Buildout Population Scenario are listed in Table 63. As described above and in Section 15.3, a preliminary question is whether the County and Coastal Commission will approve a LOCP and LOHCP that allow additional development in Los Osos. If those agencies were not to approve such planning documents, then none of the programs in Table 63 would be implemented, unless they were deemed necessary or convenient at a later time to support a sustainable Basin under the Existing Population Scenario.

If the County and Coastal Commission were to approve the necessary planning documents for development, then the Parties would present a ballot measure to the owners of properties that could potentially be developed, for the issuance of bonds to finance the construction of the programs in Table 63. It is unlikely that the LOCP and LOHCP would be completed prior to 2015. Therefore, the schedule below assumes that the election would occur in the fall of 2016. If property owners were to approve the issuance of bonds, the design and construction period would be approximately two years for the three programs, ending in 2018. Thus, all programs would be complete and ready to support new development beginning in 2019. Of course, any delays in the approval of the LOCP, LOHCP or the issuance of bonds would also delay the implementation schedule for those programs that support a sustainable Basin under the Buildout Population Scenario.

Table 63. Implementation Schedule for BPS Programs						
Program	'16	'17	'18	'19	'20	'21
Agricultural Water Reinvestment Program	■	■	■	■	■	■
Basin Infrastructure Program B	■	■	■	■	■	■
Basin Infrastructure Program D	■	■	■	■	■	■

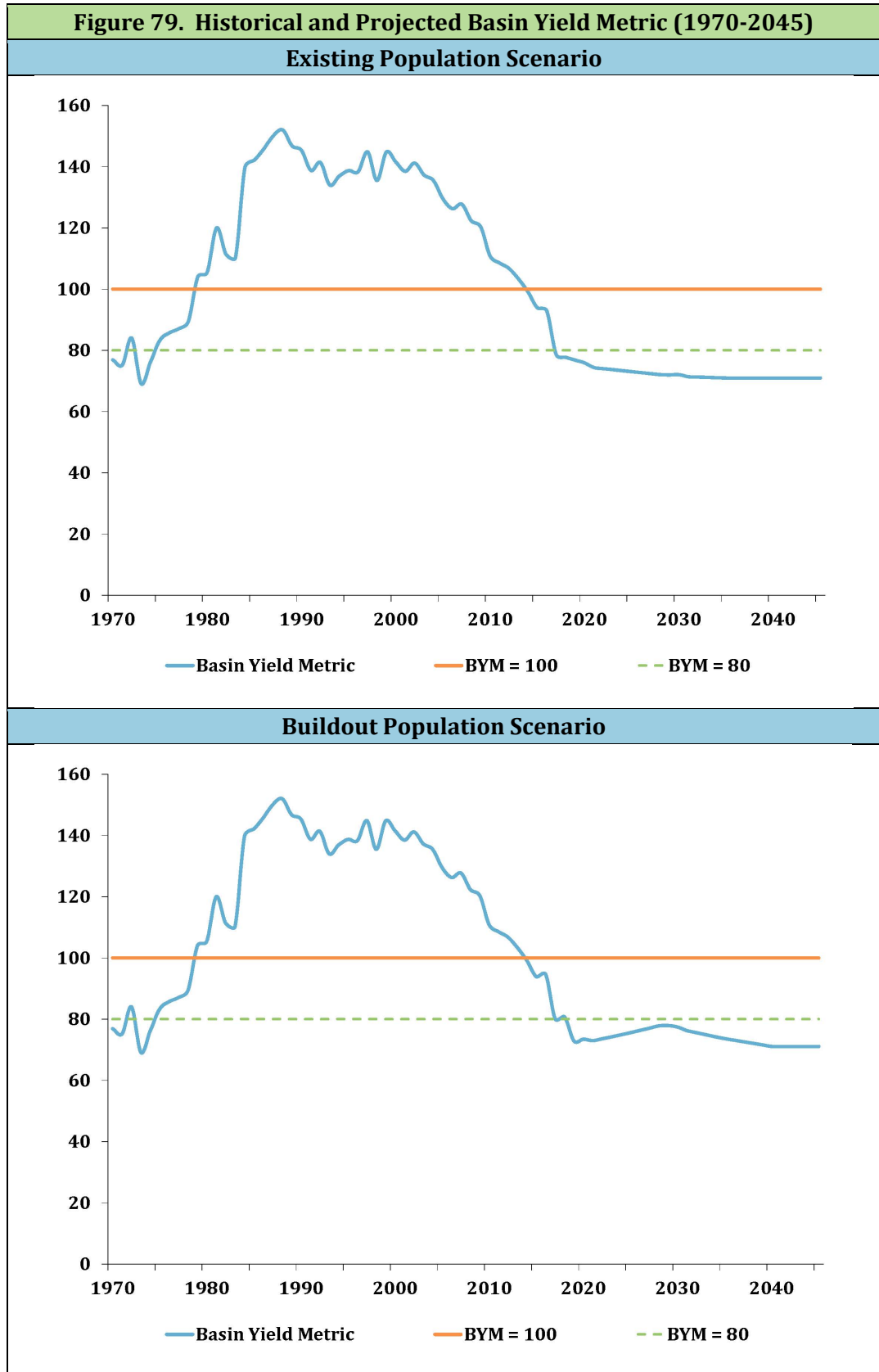
Actions in Process (■), Actions Complete (■), and Decision Points (■).

The primary goal of this Basin Plan is to halt or, to the extent possible, reverse seawater intrusion into the Basin. In order to measure success in achieving that goal, Chapter 6 established several metrics for the Basin, viz., the Basin Yield Metric, the Water Level Metric and the Chloride Metric. If the various programs in Table 62 and Table 63 are implemented, the Model predicts that all metric targets will be achieved.

Figure 79 depicts the historical and projected values for the Basin Yield Metric from 1970 through 2045, for both the Existing Population Scenario and the Buildout Population Scenario. Under the Existing Population Scenario, it is predicted that the Basin Yield Metric will fall below the target of 80 for the first time in 2017, after implementation of the Urban Water Reinvestment Program and Basin Infrastructure Program C. In later years, the Basin Yield Metric will decline steadily to an equilibrium of 71, based on full implementation of the Urban Water Use Efficiency Program.

Under the Buildout Population Scenario, the Basin Plan would also achieve the Basin Yield Metric target of 80 in 2017. In order to maintain the Basin Yield Metric at or below 80, the Parties would need to implement the various programs listed in Table 63. The Model predicts that with those programs, the Basin Yield Metric will remain below 80, eventually reaching an equilibrium of 71 based on full implementation of the Urban Water Use Efficiency Program and Agricultural Water Reinvestment Program.

If the Basin Plan programs are implemented as described in this chapter, they would achieve a sustainable Basin Yield Metric by 2017. It is expected that the Water Level Metric would respond within five years, so that it would reach the target of 8 feet msl by 2022. The Chloride Metric would react more slowly, following the Water Level Metric by approximately 15 years. The Chloride Metric may rise above current levels before falling to below the target of 100 mg/l by approximately 2037. While that date seems to be far in the future, it will only be achieved through quick, decisive actions by the Parties and the residents, businesses and institutions of Los Osos, pursuant to this Basin Plan.





July 6, 2020

Kylie Hensley
County of San Luis Obispo
Department of Planning & Building, Long Range Planning Division
976 Osos Street, Room 300
San Luis Obispo, CA 93408

Re: Agenda Item No. 7 re consideration of Growth Management Ordinance to establish a growth rate for new dwelling units in the Los Osos Urban Area (County File Number: LRP2011-00016 and LRP2020-00006)

Dear Ms. Hensley,

Golden State Water Company (“Golden State”) appreciates the opportunity to provide comments on the County of San Luis Obispo’s (“County”) Growth Management Ordinance for Los Osos community. The following comments build off of the letter sent by the Los Osos Basin Management Committee (“BMC”), of which Golden State is a member, to the California Coastal Commission and the County on June 21, 2017. (See Attachment A.) This letter serves to provide additional information regarding the goals, programs, metrics, and restrictions discussed in the Updated Basin Plan for the Los Osos Groundwater Basin (“Basin Plan”).

The Basin Plan was the culmination of a multi-year planning process, during which the Los Osos Community Services District (“LOCSD”), Golden State, and S&T Mutual Water Company (jointly, the “Purveyors”), as well as the County worked together to identify projects and develop goals and metrics to address management of the Los Osos Groundwater Basin (“Basin”) and ensure a sustainable water supply for the Los Osos community. Upon finalization, the Basin Plan was adopted by the San Luis Obispo County Superior Court in 2015.

The primary goals of the Basin Plan include halting seawater intrusion into the Basin and providing sustainable water supplies for existing and future needs. Although much of the Basin Plan is focused on ensuring a sustainable and affordable water supply for existing users, the Basin Plan also contemplates the requirements that need to be met before new

development should be allowed to proceed within the Basin, including completion of a Basin Infrastructure Program and satisfaction of identified Basin monitoring metrics.

As the BMC described in its June 21, 2017 letter, the Basin Infrastructure Program is divided into four parts, designated as Programs A through D. (See Basin Plan, Ch. 10.) Programs A and C are contemplated to provide a sustainable water supply for existing Basin users, while Programs B and D are intended to provide water for future development. (Basin Plan, Ch. 16.3.4.) The Purveyors—through their customers—have borne the majority of the costs associated with implementation of the Basin Plan, including the infrastructure projects associated with Basin Infrastructure Programs A and C. The infrastructure projects that fall within Programs B and D, however, have not yet been funded and there is currently no funding mechanism or fee structure in place that would ensure (as recommended by the Basin Plan) that new development pays its fair share of the costs to supply and deliver additional water. (Basin Plan, Ch. 15.3 (stating that the “Basin Plan recommends that the costs of the programs required to allow development of currently undeveloped parcels . . . be borne primarily by those property owners.”))

The Basin Plan also relies on several metrics—the Basin Yield Metric, the Water Level Metric, the Chloride Metric, and the Nitrate Metric—to assist the Purveyors in measuring the effectiveness of contemplated programs and projects. Although the most recent available data indicates that the Basin’s health is improving, as a whole these metrics have yet to show consistent improvement. For example, although the Basin Yield Metric has been met over the past four years as a result of the Purveyors’ water conservation efforts and progress made on Program A and C program projects, e.g. GSWC’s Program C Well (Los Olivos Well), the other three metrics have made inconsistent progress and have not yet reached their target levels. (See Los Osos Basin Plan 2019 Annual Monitoring Report, available at [https://www.slocounty.ca.gov/Departments/Public-Works/Committees-Programs/Los-Osos-Basin-Management-Committee-\(BMC\).aspx](https://www.slocounty.ca.gov/Departments/Public-Works/Committees-Programs/Los-Osos-Basin-Management-Committee-(BMC).aspx).) It is also important to note that the intent of the metrics is to stabilize and improve the sustainability of the water supply for the Basin’s existing water users.

Although the Basin Plan itself recognizes that the Purveyors do not have the power to wield land use authority, and that instead the authority to determine future levels of development lies with the County, the Basin Plan does discuss—and rely on—several external constraints on future development within the Basin. (See Basin Plan, Ch. 14.5.3 (stating that “[i]t is not the purpose of the Parties to determine desirable levels of future development in Los Osos through this Basin Plan; rather, it has been prepared as a water supply planning document with a primary focus on halting seawater into the Basin.”)) First, the Regional Water Quality Control Board prohibited discharges of municipal

wastewater to septic tanks within the majority of the Basin; this had the effect of precluding new development until construction of the Los Osos Wastewater Plant (“LOWWP”), which was finished in 2016. (Basin Plan, Ch. 14.5.3.) Second, the Coastal Development Permit issued for the LOWWP requires that the County demonstrate a sustainable Basin before the California Coastal Commission will allow adoption of the Los Osos Community Plan or connection of any new development to the LOWWP. (Basin Plan, Ch. 14.5.3 (stating that new development is “prohibited until the [Los Osos Community Plan] is adopted to identify appropriate sustainable buildout limits, based on conclusive evidence indicating that adequate water is available to support development of such properties without adverse impacts to ground and surface waters, including wetlands and all related habitats.”) Third, the County adopted a Level of Severity (“LOS”) III for the Basin as part of its Resource Management system (as described in Section 5.7.2 of the Basin Plan). As a result, the County is required to take this LOS determination into consideration when reviewing applications for development and a change in the current LOS would be necessary before any significant development were permitted.

In summary, and as noted in our above comments, the Basin has made progress towards supplying a stable and sustainable water supply; however, additional progress still needs to be made on developing a funding plan for Programs B and D in support of new development and ensuring that monitoring results support a clear trend towards compliance with the Basin Plan’s stated metrics.

Golden State appreciates your consideration of the information provided in this correspondence and the time County staff has already spent reviewing and digesting the Basin Plan. We would be happy to provide additional comments and/or answer any questions. Please feel free to reach out to me at (805) 349-75407 (ext. 101) or MarkZimmer@gswater.com.

Sincerely,



Mark Zimmer

General Manager, Coastal District
Golden State Water Company

Enclosure

Cc: Toby Moore, Water Resources Manager, Golden State Water Company
Paul Rowley, Vice President of Operations, Golden State Water Company

ATTACHMENT A

June 21,2017

California Coastal Commission
725 Front Street #300
Santa Cruz, CA 95060

SLO Co Dept of Planning and Building
976 Osos St #200
San Luis Obispo, CA 93401

Subject: Basin Management Committee Recommendations

To whom it may concern:

The Los Osos Basin Management Committee (LOBMC) understands that the update to the Los Osos Community Plan (part of the County's Local Coastal Program) is proceeding toward hearings before the County Planning Commission and Board of Supervisors. We write to provide you information regarding LOBMC efforts to implement actions that will create a sustainable water supply for the community. We realize that a clear and accurate description of the community's groundwater resources is fundamental to the land use planning process.

In January 2015, the Los Osos water purveyors and the County of San Luis Obispo released the Updated Basin Plan for the Los Osos Groundwater Basin (Basin Plan), detailing a series of strategies, plans and projects to manage and protect groundwater water resources in the basin. The Basin Plan is the conclusion of a multi-year planning process that first began in 2008 following the initiation of the basin adjudication.

The updated Basin Plan establishes goals, timeframes, milestones, and metrics to address basin management. The Los Osos Community Services District, Golden State Water Company and S&T Mutual Water Company, as well as the County of San Luis Obispo worked together to develop the immediate and continuing goals, and to create a framework that defines the fiscal and management authority to finance and implement the Basin Plan projects. Both the Basin Plan and the cooperative authority described in the plan were approved by the Superior Court in October, 2015. The area covered under the adjudication is termed the Plan Area in the Basin Plan (see Basin Plan Figure 10), and it fully encompasses the Urban Reserve Line.

The primary goals of the Basin Plan include halting seawater intrusion into the basin and providing sustainable water supplies for existing and future needs. Strategies outlined include:

- Implement conservation measures to minimize basin demand
- Shift pumping away from the coast and lower aquifer to halt seawater intrusion and maximize basin yield
- Beneficially use recycled water to minimize seawater intrusion

- Reserve 20 percent of basin safe yield to create a buffer to proactively protect the basin

In September 2014, California Governor Jerry Brown signed the Sustainable Groundwater Management Act (SGMA), groundwater management legislation that strengthens local management and monitoring of groundwater basins. Since the Los Osos Groundwater Basin is adjudicated, it was specifically excluded from the requirements of SGMA in the final version of the legislation. However, the Basin Plan is compliant with the substantive requirements of SGMA, and shares common goals for basin monitoring, management, and sustainability.

Basin Management Committee Activities

Pursuant to the court-approved Stipulated Judgment approved in October, 2015, the water purveyors and the County of San Luis Obispo formed a Basin Management Committee (BMC) in December, 2015. In September 2016, the BMC released its first Annual Report documenting the monitoring performed and Basin Plan progress made in 2015. The 2015 Annual Report includes:

- 2015 Groundwater Production
- The status of the basin based on the metrics set in the Basin Plan
- Framework for an Adaptive Management Plan
- Update on the basin infrastructure programs identified in the Basin Plan

The BMC meets regularly to discuss progress, establish upcoming priorities, and evaluate adaptive management measures. In November, 2016, the BMC updated the current and future water projections based on current production data. A copy of the staff note is attached for reference, but the key conclusions are summarized as follows:

- The Basin Plan projected a build-out purveyor water demand of 2,100 acre feet per year (AFY)
- Based on implemented water efficiency measures and community use patterns, the current range of estimated water demands is now revised to 1,100 to 1,500 AFY, depending on the future per capita demand and total population.

Status of Basin Infrastructure Program

The Basin Plan provides 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, and 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. Maximize 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 are designed to 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. The following Table provides an overview of the status, as of March 2017, of the Projects that are currently moving forward or have been completed. Programs A and C are currently intended to balance the basin with the current population, and Programs B and D are generally intended for future development.

Basin Management Committee Recommendations

Future development within the Los Osos basin should be incremental and only occur after:

1. Any growth projections in the updated Los Osos Community Plan should be consistent with the water supply estimates provided in the Basin Management Plan.
2. The Community Plan should acknowledge any infrastructure projects contemplated by the Basin Plan that would require coastal planning action subject to the authority of the Coastal Commission. This provision would help expedite completion of any affected projects.
3. Amendments to the County's Growth Management Ordinance [separate from the Community Plan/LCP] should provide a growth rate for Los Osos consistent with the adaptive management provision of the Basin Plan. In particular, 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.

The BMC is available to provide periodic input and updates concerning groundwater basin conditions and project status. The 2016 Annual Report is expected to be released by June, 2017. Please let us know if you have any questions, or if you need more information.

Sincerely,



Rob Miller, PE
Interim Executive Director of BMC
RCE 57474

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 (8 th Street)	LOCSD	Fully Funded	\$250,000	Well was drilled and cased in December 2016. Budget remaining \$250,000 to equip the well. Project to be completed by June 2018
South Bay Well Nitrate Removal	LOCSD	Completed		
Palisades Well Modifications	LOCSD	Completed		
Blending Project (Skyline Well)	GSWC	Fully Funded		Blending of Skyline Well and Rosina Well Project was completed. Project needed modifications to include a new nitrate removal unit. Construction is expected to commence in Spring,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	Not Funded	Pending further review	GSWC's Program A 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	Pending Completion	Well has been drilled and cased. GSWC is in the equipping phase. Well can be used, if needed, using on-site generator.
Expansion Wells No. 2	GSWC	Pending Funding Vote	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.

Project Name	Parties Involved	Funding Status	Capital Cost	Status
Expansion Wells 3 and LOVR Water Main Upgrade	GSWC	Pending Funding Vote	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

TO: Los Osos Basin Management Committee

FROM: Rob Miller, Interim Executive Director

DATE: November 16, 2016

SUBJECT: Item 7B. – Review Future Water Demand Projections for Los Osos Community Plan

Recommendations

Receive report and provide input to staff for future action.

Discussion

The population within the Los Osos Urban Reserve Line (URL) was identified in the Basin Plan as 14,159 persons based on the 2010 Census. The build-out population was estimated at 19,850 persons. The County of San Luis Obispo has issued a Public Review Draft of the Los Osos Community Plan (Plan) and is re-evaluating the build-out potential and the population within the URL. Based on more recent information, the County has updated the build-out population to be 18,747 persons based on 7,811 dwellings at 2.4 persons per dwelling. The County has also noted a downward trend in occupancy with a current estimated rate of 2.2 persons per household. In addition, the potential for a small increase in the number of total units at build-out has been identified, from a published value of 7,811 dwellings to a new value 7,887. Using the lower density and revised dwelling count, a future population of 17,352 can be calculated. For the purposes of this update, a range of 17,000 to 18,750 persons will be used for the projected build-out population within the URL.

To further understand the population within Los Osos, the following table provides a breakdown of the existing population and future build-out population for the Water Purveyors and the population outside of the water purveyor boundaries. These values were based on Census block data and should be considered approximate.

	Existing Population (2010 Census)	Build-out Population Range	
Total Water Purveyors	13,544	16,330	18,075
Estimated Population Outside of Water Purveyor Boundary	615	670 ¹	675 ²
Total	14,159	17,000	18,750

¹ Assumes 25 additional dwelling units outside of water purveyor boundaries with a household density of 2.2 persons per household.

² Assumes 25 additional dwelling units outside of water purveyor boundaries with a household density of 2.4 persons per household.

The 2015 Annual Report, dated September 2016, provided a summary of the 2015 water production by each Water Purveyor (Table ES-1) for a total production of 1,010 acre-feet. The summary is as follows:

- Los Osos Community Service District 510 acre-feet
- Golden State Water Company 470 acre-feet
- S&T Mutual Water Company 30 acre-feet

For 2016, water production through September is down marginally for Golden State Water Company (-4.3%) and S&T Mutual Water Company (-3.0%). LOCSD's water production, through September, had a slight upward rebound (3.4%). The following table provides an overview of the water production through September for all three Water Purveyors.

	2015 Water Production (AF) January thru September	2016 Water Production (AF) January thru September	% Difference
Golden State Water Company	361.9	346.4	-4.3%
Los Osos Community Services District	393.5	406.8	3.4%
S&T Mutual Water Company	26.9	26.1	-3.0%
Total	782.3	779.3	-0.4%

Utilizing the existing population within the water purveyor service area and the 2015 water production, the existing per capita production was calculated to be 67 gpcd. It should be noted that this value includes commercial, institutional, and non-revenue water.

- 2015: $1,010 \text{ AF} / 365 \text{ days} = 2.767 \text{ AF/day} = 901,670 \text{ gpd} / 13,544 \text{ persons} = 67 \text{ gpcd}$

To estimate future water production at build-out, a range of per capita demands was used as follows:

- Low range: Assume per capita demand is reduced by 10% due to the implementation of urban recycled water and further conservation measures, therefore utilize 60 gpcd.
- High range: Assume existing per capita demand increases by 10% due to changes in customer behavior during non-drought conditions, therefore utilize 73 gpcd.

Therefore, the estimated water production for the purveyors at build-out is as follows

- Low Range: $16,330 \text{ persons} \times 60 \text{ gpd/person} = 979,800 \text{ gpd} = 1,142 \text{ AFY}$
- High Range: $18,075 \text{ persons} \times 73 \text{ gpd/person} = 1,319,475 \text{ gpd} = 1,478 \text{ AFY}$

The above calculation is limited to purveyor production. It should be noted that the water production identified in the Basin Plan assumed a future of 19,850 persons with a future per

capita demand of 95 gpcd, resulting in a total future production value of 2,100 AFY. This value includes water production from private domestic wells within the URL.