



January 23, 2018

TO: LOCSD Board of Directors

FROM: Jose Acosta, Utility Systems Manager
 Frank Asuncion, Utilities Crew Leader
 Liz Radvansky, Administrative/Accounting Assistant III

SUBJECT: **Agenda Item 9C – 2/1/2018 Board Meeting**
 Utilities Department Report for December 2017

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Vice President
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WATER PRODUCTION INFORMATION

The total production for the month of **December 2017** was approximately **14.9 million gallons (MG)** this equates to an average daily demand of **479,200** gallons. This represents an **increase** in production from last year by approximately **14.51%**.

Using the state’s formula to calculate residential usage per capita per day, for the month of **December 2017** our residential customers used **64.1** gallons per person per day.

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 **December 2017**. Totals for last year are included for comparison:

Production (MG) December	2017	2016	% Change
Palisades	2.65	3.33	-20.4%
3 rd Street/Bayside	0	0	0%
8 th Street/El Moro	5.19	4.32	20.1%
10 th Street	4.21	3.35	25.7%
South Bay (lower)	2.09	1.98	5.6%
South Bay (upper)	0.72	0.00	118.2%
TOTAL:	14.86	12.98	

Runtime (Hours) December	2017	2016
Palisades	128.0	139.0
3 rd Street/Bayside	0.7	0
8 th Street/El Moro	242.4	189.0
10 th Street	235.6	200.1
South Bay (lower)	729.5	692.8
South Bay (upper)	321.7	0
TOTAL:	1657.9	1220.9

WATER BILLING INFORMATION

Fifty-seven percent of the service area received bills for approximately **15.43 MG** consumption for the period October 10, 2017, through December 12, 2017. This generated approximately **\$249,409.17** in revenue.

UTILITIES DEPARTMENT OPERATIONS AND MAINTENANCE

During the month of December 2017, 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.
- Meter change out program.
- Installed a water service line at 1272 4th Street for fire sprinkler service.
- Repaired broken water service lines at 1715 11th Street, 1134 2nd Street, and 1373 8th Street.
- Attended confined space awareness training at San Luis Obispo City Corp Yard.
- Replaced valve boxes on the corner of 9th Street and Nipomo Avenue.
- Performed meter box maintenance (replaced broken meter boxes, raised boxes that were below grade, etc.)

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>

- Performed drainage basin maintenance at Cabrillo Basin.
- Work completed on control panel at 8th Street drainage facility.

BAYRIDGE ESTATES and VISTA DE ORO COLLECTIONS

Final jetting had been completed in the month of September for both systems. This is a requirement to finalize the transfer of these two systems to the county. Until finalization of transfer is complete, the district crew is responsible for responding to any customer concerns or issue within the collection systems.

- The contracts have been completed and headed to County Board of Supervisors.

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									
*** All units are in inches ***																
Water Year	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	Total			
2017 - 2018	0.55	0.27	0.00	0.00	0.00	0.16	0.16	0.47	0.12				1.73			
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.

December 2017	8th St./ EI 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
<i>Total Gallons Produced, Mgal</i>	5.1855	0.0000	4.2098	2.0907	0.7240	2.6463	14.8563	12.9736	14.51%
<i>Average Daily Flow, Mgal</i>							0.4792		
<i>Total Gallons to Waste (Filter Backwash), Mgal</i>	0.0361			0.0000	0.0000		0.0361	0	
<i>Total Gallons to Waste (System Flushing), Mgal</i>							0.0000	0	
<i>Distribution System Losses (Water Line Breaks), Mgal</i>							0.0000	0	
<i>Total Gallons Adjusted, Mgal</i>	5.1494			2.0907			14.8202	12.9736	14.23%
<i>Pump Runtime, total hours</i>	242.4	0.7	235.6	729.5	321.7	128.0	1657.9	1220.9	35.79%
<i>Daily Avg. Runtime, hours/day</i>	7.8	0.0	7.6	23.5	10.4	4.1			
<i>Energy Used, kWatts</i>	9683	38	10153	10929		4682	35485	28836	23.06%
<i>Eff. Ratio, kWatts/hr</i>	39.95	54.29	43.09	14.98		36.58			
<i>Chlorine Used, total gallons</i>	65.1	0.0	34.3	27.6		17.2	144.2	130.9	10.14%
<i>Aqua Mag, pounds</i>	39.6		22.8	0.0		20.6	83.0	29.4	182.31%
<i>Static water level, ft.</i>	36.20	3.10	155.90	119.60	91.10	95.50			
<i>Pump water level, ft.</i>	150.50	OUT OF SERV	247.20	180.50	114.80	185.70			
<i>Draw-down level, ft.</i>	114.30	OUT OF SERV	91.30	60.90	23.70	90.20			
<i>Gallons per minute</i>	350	0	305	30	30	337			
<i>Pressure, psi</i>	97	0	38	63	61	60			

LOCSD Water Data

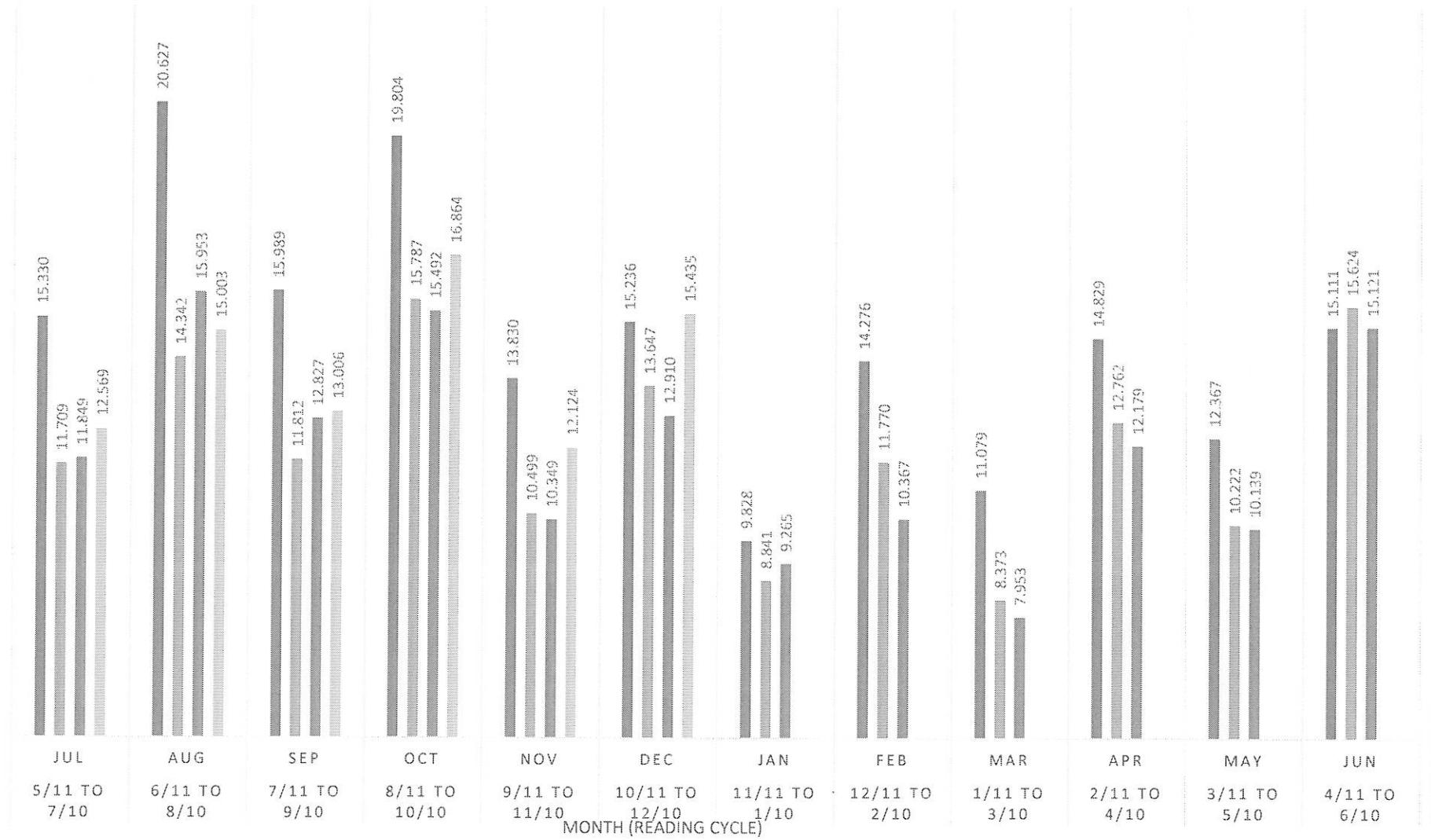
Water Consumption Data in Million Gallons						
% of Service Area	Billing Period		FY 14-15	FY 15-16	FY 16-17	FY 17-18
43	5/11 to 7/10	Jul	15.330	11.709	11.849	12.569
57	6/11 to 8/10	Aug	20.627	14.342	15.953	15.003
43	7/11 to 9/10	Sep	15.989	11.812	12.827	13.006
57	8/11 to 10/10	Oct	19.804	15.787	15.492	16.864
43	9/11 to 11/10	Nov	13.830	10.499	10.349	12.124
57	10/11 to 12/10	Dec	15.236	13.647	12.910	15.435
43	11/11 to 1/10	Jan	9.828	8.841	9.265	
57	12/11 to 2/10	Feb	14.276	11.770	10.367	
43	1/11 to 3/10	Mar	11.079	8.373	7.953	
57	2/11 to 4/10	Apr	14.829	12.762	12.179	
43	3/11 to 5/10	May	12.367	10.222	10.139	
57	4/11 to 6/10	Jun	15.111	15.624	15.121	
		TOTAL	178.306	145.388	144.405	85.001

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 14-15 ■ FY 15-16 ■ FY 16-17 ■ FY 17-18

MILLION GALLONS (MG)



LOCSD Water Data

Water Revenue Data						
% of Service Area	Billing Period		FY 14-15	FY 15-16	FY 16-17	FY 17-18
43	5/11 to 7/10	Jul	\$137,752.98	\$119,138.01	\$139,017.75	\$168,526.79
57	6/11 to 8/10	Aug	\$187,468.02	\$154,995.56	\$197,721.40	\$221,879.21
43	7/11 to 9/10	Sep	\$147,808.06	\$135,669.34	\$163,852.81	\$207,172.18
57	8/11 to 10/10	Oct	\$182,463.96	\$178,030.01	\$198,170.30	\$267,370.81
43	9/11 to 11/10	Nov	\$130,772.31	\$123,221.32	\$138,130.97	\$197,358.26
57	10/11 to 12/10	Dec	\$145,977.27	\$158,798.89	\$171,281.05	\$249,409.17
43	11/11 to 1/10	Jan	\$99,970.19	\$108,532.26	\$128,300.48	
57	12/11 to 2/10	Feb	\$138,344.52	\$142,733.88	\$149,015.80	
43	1/11 to 3/10	Mar	\$109,092.25	\$106,198.53	\$116,824.26	
57	2/11 to 4/10	Apr	\$143,355.32	\$151,554.05	\$165,317.00	
43	3/11 to 5/10	May	\$120,013.25	\$120,748.17	\$135,978.00	
57	4/11 to 6/10	Jun	\$148,384.13	\$178,943.85	\$193,625.41	
		TOTAL	\$1,691,402.26	\$1,678,563.87	\$1,897,235.23	\$1,311,716.42

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

U. S. DOLLARS \$

HISTORICAL TO PRESENT LOCS D WATER REVENUE BASED ON BILLING

■ FY 14-15 ■ FY 15-16 ■ FY 16-17 ■ FY 17-18

