



June 26, 2018

TO: LOCSO Board of Directors

FROM: Jose Acosta, Utility Systems Manager *JA*
 Frank Asuncion, Water Resource Crew Leader
 Liz Radvansky, Utility Billing Specialist

SUBJECT: **Agenda Item 9C – 7/5/2018 Board Meeting**
Utilities Department Report for May 2018

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 Christine M. Womack

General Manager
 Renee Osborne

District Accountant
 Robert Stilts, CPA

Unit Chief
 Scott M. Jalbert

Battalion Chief
 Greg Alex

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

Offices:
 2122 9th Street, Suite 102
 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 2018** was approximately **15.6 million gallons (MG)** this equates to an average daily demand of **505,600** gallons. This represents a **decrease** in production from last year by approximately **4.20%**.

Using the state's formula to calculate residential usage per capita per day, for the month of **May 2018** our residential customers used **67.5** 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 **May 2018**. Totals for last year are included for comparison:

Production (MG) May	2018	2017	% Change
Palisades	2.67	0.60	345.0%
3 rd Street/Bayside	0	0	0%
8 th Street/El Moro	5.48	6.71	-18.3%
10 th Street	4.72	6.03	-21.7%
South Bay (lower)	2.03	2.09	-2.9%
South Bay (upper)	0.74	0.90	-17.8%
TOTAL:	15.64	16.33	

Runtime (Hours) May	2018	2017
Palisades	128.4	32.3
3 rd Street/Bayside	0.3	0.3
8 th Street/El Moro	265.2	306.5
10 th Street	261.4	330.9
South Bay (lower)	712.9	731.9
South Bay (upper)	332.3	377.2
TOTAL:	1700.5	1779.1

WATER BILLING INFORMATION

Forty-three percent of the service area received bills for approximately **10.29 MG** consumption for the period March 7, 2018, through May 9, 2018. This generated approximately **\$173,254.24** in revenue.

UTILITIES DEPARTMENT OPERATIONS AND MAINTENANCE

During the month of May 2018, 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 completed for fiscal year.
- Repair and upgrade service lines at 1676 10th Street and 1608 7th Street.
- Completed water mainline valve exercising program. Compiled listing, identifying valves that will require corrective action.
- Fire hydrant maintenance and repairs. 2 hydrants identified, investigated and repairs completed.
- Cleanup and moving of parts and equipment at current storage yard facility.
- Attended a 2-day class in SLO, chemical feed pump operation and troubleshooting, water quality sampling and mainline flushing and locating techniques and equipment.

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.lososocsd.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													
*** All units are in inches ***													
Water Year	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	Total
2018-2019	0.79	0.00											0.79
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.

Attachment

May 2018	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 Year TOTAL
Total Gallons Produced, Mgal	5.4830	0.0001	4.7198	2.0279	0.7440	2.6687	15.6435	16.33
Average Daily Flow, Mgal							0.5046	0.50
Total Gallons to Waste (Filter Backwash), Mgal	0.0366			0.0000	0.1400		0.1766	
Total Gallons to Waste (System Flushing), Mgal							0.0000	
Distribution System Losses (Water Line Breaks), Mgal							0.0000	
Total Gallons Adjusted, Mgal	5.4464			2.0279			15.4669	16.32
Pump Runtime, total hours	265.2	0.3	261.4	712.9	332.3	128.4	1700.5	1775
Daily Avg. Runtime, hours/day	8.6	0.0	8.4	23.0	10.7	4.1		
Energy Used, kWatts	10545	35	10960	10821		4683	37044	373
Eff. Ratio, kWatts/hr	39.76	116.67	41.93	15.18		36.47		
Chlorine Used, total gallons	71.6	0.0	35.2	23.0		16.5	146.3	133
Aqua Mag, pounds	44.0		28.4	0.0		18.0	90.4	90
Static water level, ft.	35.70	3.50	157.60	119.20	91.80	94.80		
Pump water level, ft.	151.60	OUT OF SERV	259.60	180.10	116.90	189.70		
Draw-down level, ft.	115.90	OUT OF SERV	102.00	60.90	25.10	94.90		
Gallons per minute	348	0	308	32	32	320		
Pressure, psi	95	0	37	60	64	53		

May 2018

Well Log Summaries

LOCSD Water Data

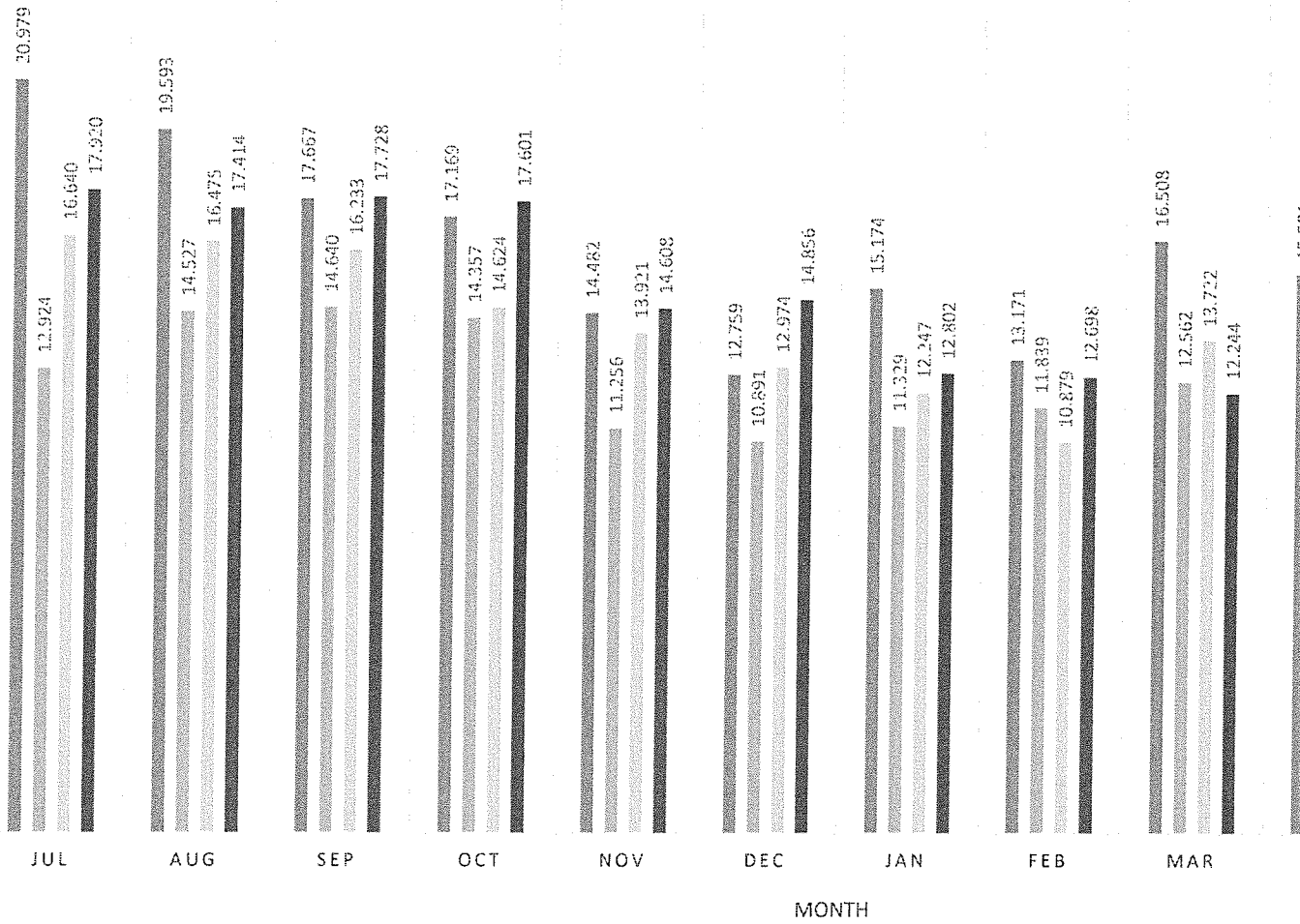
Water Production Data in Million Gallons				
	FY 14-15	FY 15-16	FY 16-17	FY 17-18
Jul	20.979	12.924	16.640	17.920
Aug	19.593	14.527	16.475	17.414
Sep	17.667	14.640	16.233	17.728
Oct	17.169	14.357	14.624	17.601
Nov	14.482	11.256	13.921	14.608
Dec	12.759	10.891	12.974	14.856
Jan	15.174	11.329	12.247	12.802
Feb	13.171	11.839	10.879	12.698
Mar	16.508	12.562	13.722	12.244
Apr	15.591	15.117	14.551	13.380
May	13.966	16.695	16.329	15.644
Jun	11.731	15.674	17.257	
TOTAL	188.790	161.807	175.852	166.895

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

FY2014-2015
 FY2015-2016
 FY2016-2017
 FY2017-2018

MILLION GALLONS (MG)



LOCSD Water Data

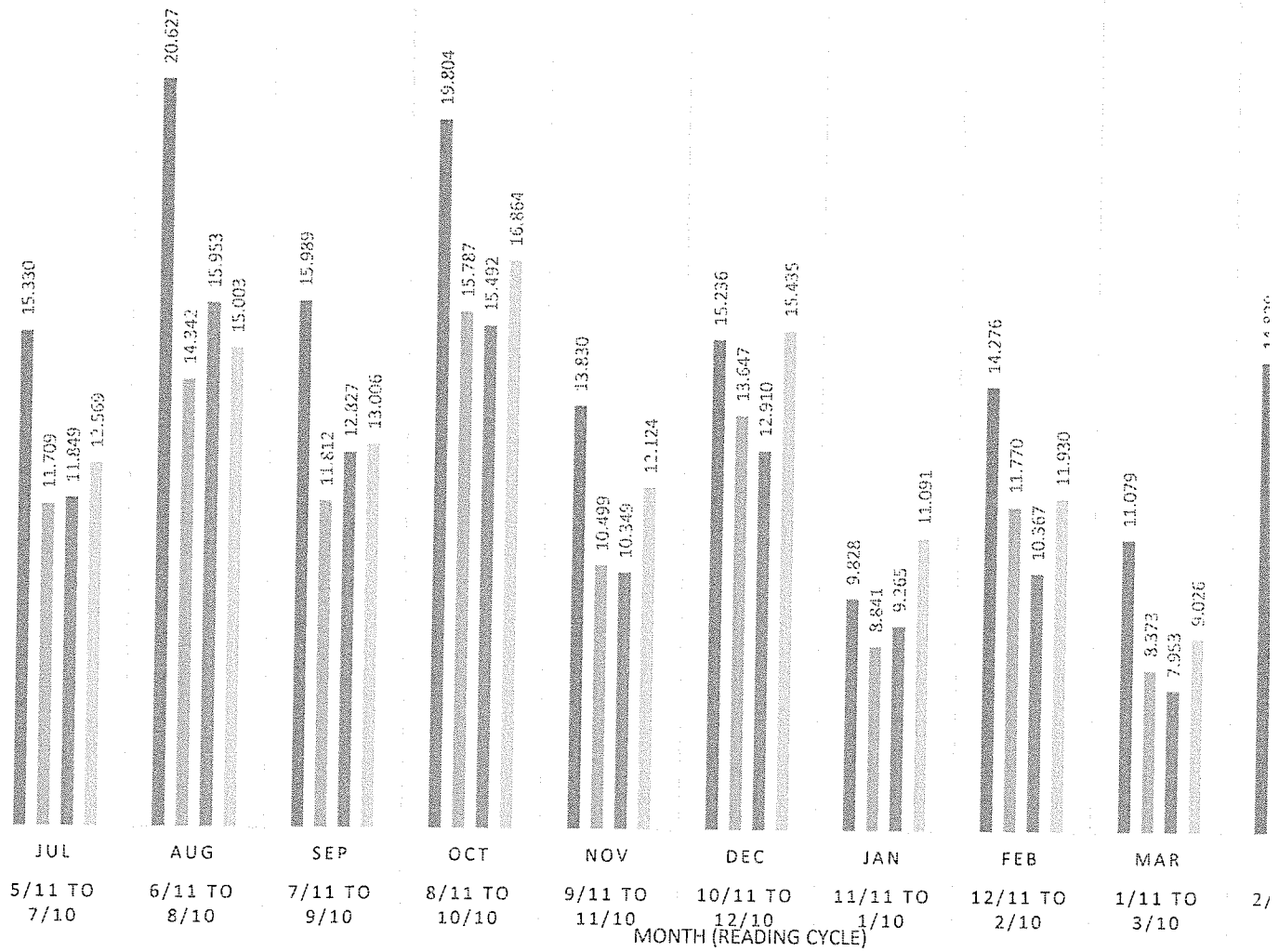
Water Consumption Data in Million Gallons						
% of Service Area	Billing Period		FY 14-15	FY 15-16	FY 16-17	F
43	5/11 to 7/10	Jul	15.330	11.709	11.849	
57	6/11 to 8/10	Aug	20.627	14.342	15.953	
43	7/11 to 9/10	Sep	15.989	11.812	12.827	
57	8/11 to 10/10	Oct	19.804	15.787	15.492	
43	9/11 to 11/10	Nov	13.830	10.499	10.349	
57	10/11 to 12/10	Dec	15.236	13.647	12.910	
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	

Consumption is billed for a two month period every month.
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 Production is recorded daily.

HISTORICAL TO PRESENT LOCS D WATER CONSUMPTION BASED ON BI

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

MILLION GALLONS (MG)



LOCS D Water Data

Water Revenue Data						
% of Service Area	Billing Period		FY 14-15	FY 15-16	FY 16-17	I
43	5/11 to 7/10	Jul	\$137,752.98	\$119,138.01	\$139,017.75	\$
57	6/11 to 8/10	Aug	\$187,468.02	\$154,995.56	\$197,721.40	\$:
43	7/11 to 9/10	Sep	\$147,808.06	\$135,669.34	\$163,852.81	\$:
57	8/11 to 10/10	Oct	\$182,463.96	\$178,030.01	\$198,170.30	\$:
43	9/11 to 11/10	Nov	\$130,772.31	\$123,221.32	\$138,130.97	\$:
57	10/11 to 12/10	Dec	\$145,977.27	\$158,798.89	\$171,281.05	\$:
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	\$1
57	2/11 to 4/10	Apr	\$143,355.32	\$151,554.05	\$165,317.00	\$2
43	3/11 to 5/10	May	\$120,013.25	\$120,748.17	\$135,978.00	\$1
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	\$2,

Consumption is billed for a two month period every month.
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U. S. DOLLARS \$

HISTORICAL TO PRESENT LOCSD WATER REVENUE BASED ON

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

