

MEMORANDUM

TO: CITY COUNCIL

FROM: SHANE TAYLOR, UTILITIES MANAGER

SUBJECT: MONTHLY WATER SUPPLY AND DEMAND UPDATE

DATE: MAY 22, 2018

SUMMARY OF ACTION:

The update reports the water supply and demand for April 2018. Current Lopez Reservoir level and projected levels are provided in the attachments.

IMPACT ON FINANCIAL AND PERSONNEL RESOURCES:

Approximately two (2) hours of staff time is required to prepare the report.

RECOMMENDATION:

It is recommended the City Council receive and file the monthly Water Supply and Demand Report.

BACKGROUND:

On April 25, 2017, the City Council, by resolution, rescinded the Stage 1 Water Shortage Emergency along with related emergency water conservation measures and restrictions. During the public hearing the City Council requested staff to continue preparing the monthly water supply and demand updates. The Council urged citizens to continue to practice every day water saving measures, and reiterated that the previously adopted water conservation measures were to remain in effect.

In April 2018, the City's water use was 161.2 acre-feet with a per capita use of 99 gallons per day/per person. There was a total of 0.5" of rainfall in April. The water use for the current "rolling" water year from April 2017 to April 2018 was 2,458 acre-feet, which equates to a per capita use of 124 gallons per day/per person. There was a total of 10.23" of rain fall for this period.

ANALYSIS OF ISSUES:

The United States Drought Monitor, as of May 11, 2018 shows San Luis Obispo County in a severe drought. Rain fall to date (July 1, 2017 to May 11, 2018) is 9.23 inches at the Corporation Yard rain gauge. Lopez Lake, as of May 11, 2018, is at 51.5% capacity (25,411 acre-feet of storage).

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The new water year began on April 1, 2018 and the current total available supply from Lopez is 2,290 acre-feet, our normal entitlement plus 564 acre-feet of surplus water. In addition we have 1,323 acre-feet of ground water entitlement from the Santa Maria Basin and 200 acre-feet from the Pismo Formation.

The projected water use for water year 2018/19 is 2,000 acre-feet if the City receives average rainfall.

ADVANTAGES:

No advantages noted at this time.

DISADVANTAGES:

No disadvantages noted at this time.

ALTERNATIVES:

Not applicable at this time.

ENVIRONMENTAL REVIEW:

No environmental review is required for this item.

PUBLIC NOTIFICATION AND COMMENTS:

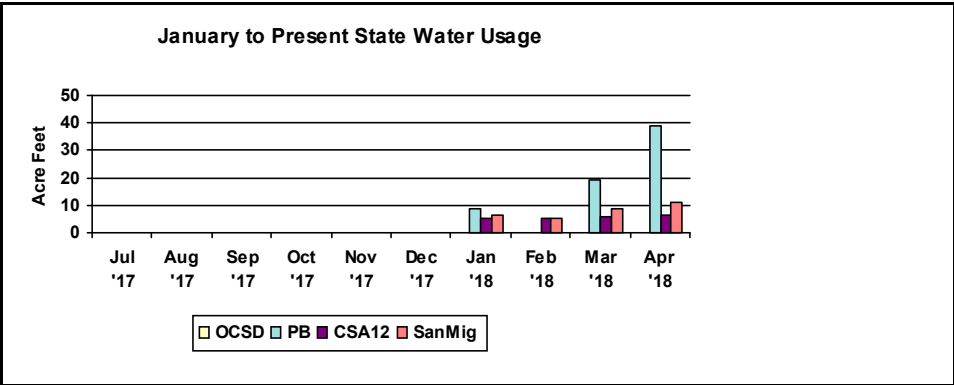
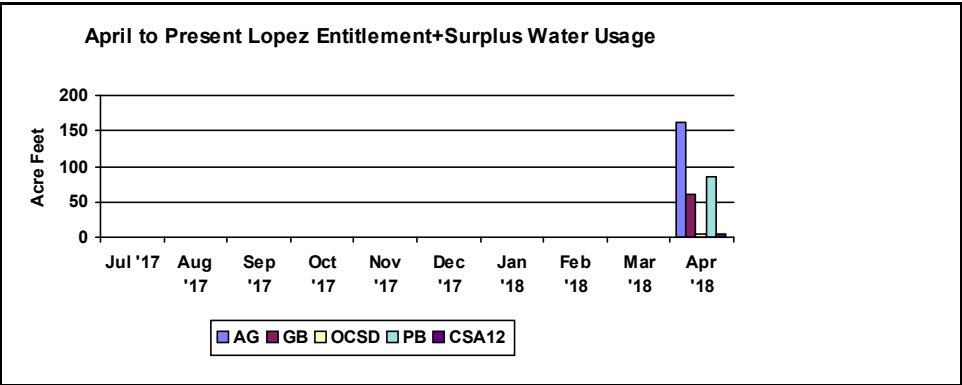
The Agenda was posted at City Hall and on the City's website in accordance with Government Code Section 54954.2.

Attachments:

1. Lopez Monthly Operations Report
2. Lopez Reservoir Storage Projection

San Luis Obispo County Flood Control and Water District Zone 3 - Lopez Project - Monthly Operations Report April, 2018

Contractor	Lopez Water Deliveries												State Water Deliveries						Total Water Deliveries This Month					
	Entl.	Surplus	Total	This Month				April to Present				Annual Request	This Month			January to Present								
				Entitlement		Surplus		Entitlement		Surplus			Usage	% of Annual Request	SWP Deliveries	Change in Storage	Usage	% of Annual Request		SWP Deliveries				
				Usage	%	Usage	%	Usage	%	Usage	%													
Arroyo Grande	2290	564.00	2854.00	161.15	7.0%	0.00	0.0%	161.15	7.0%	0.00	0.0%	161.15	5.6%									161.15		
Oceano CSD	303	75.00	378.00	4.04	1.3%	0.00	0.0%	4.04	1.3%	0.00	0.0%	4.04	1.1%	0	0.00	0.0%					0.00	0.0%		4.035
Grover Beach	800	197.00	997.00	59.99	7.5%	0.00	0.0%	59.99	7.5%	0.00	0.0%	59.99	6.0%											59.99
Pismo Beach	892	220.00	1112.00	84.68	9.5%	0.00	0.0%	84.68	9.5%	0.00	0.0%	84.68	7.6%	608	39.00	6.4%					67.00	11.0%		123.68
CSA 12	245	60.00	305.00	4.13	1.7%	0.00	0.0%	4.13	1.7%	0.00	0.0%	4.13	1.4%	84	6.22	7.4%					22.34	26.6%		10.35
San Miguelito														120	11.05	9.2%					31.60	26.3%		11.05
Total	4530	1116.00	5646.00	313.99	6.9%	0.00	0.0%	313.99	6.9%	0.00	0.0%	313.99	5.6%	812	56.27	6.9%					120.94	14.9%	111.00	370.26
												Last Month Stored State Water			This Month Stored State Water			1119.81						



Note: Deliveries are in acre feet. One acre foot = 325, 850 gallons or 43, 560 cubic feet. Safe yield is 8,730 acre feet.

"Year to Date" is January to present for State water, April to present for Lopez deliveries, and July to present for rainfall.

Lopez Dam Operations	This Month	Year to Date		
Lake Elevation (full at 522.37 feet)	491.07		Difference (feet)	-31.30
Storage (full at 49200 acre feet)	25590		% Full	52.0%
Rainfall	0.57	13.24		
Downstream Release (4200 acre feet/year)	358.14	358.14		
Spillage (acre feet)	0	0.00		

Comments: Zone 3 is no longer operating under the LRRP as of March 31, 2018 per Resolution 2017-218.

Surplus water shown is as designated per BOS May 15, 2018 Declaration of Surplus Water.

1) Oceano supplied State Water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 1.76 AF delivered to Canyon Crest was added to Oceano's State Water usage this month and 1.76 AF was subtracted from Arroyo Grande's usage this month.

