MEMORANDUM

TO: CITY COUNCIL
FROM: BILL ROBESON, PUBLIC WORKS DIRECTOR
BY: SHANE TAYLOR, UTILITIES MANAGER
SUBJECT: MONTHLY WATER SUPPLY AND DEMAND UPDATE
DATE: NOVEMBER 26, 2019

SUMMARY OF ACTION:
The update reports the water supply and demand for October 2019. 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On April 25, 2017, the City Council, by resolution, rescinded the Stage 1 Water Shortage Emergency along with related emergency water conservation measures and restrictions.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 saving measures were to remain in effect.

In October 2019, the City’s water use was 218.9 acre-feet with a per capita use of 130 gallons per day/per person. There was no rainfall in October. The water use for the current “rolling” water year from November 2018 to October 2019 was 2,149 acre-feet, which equates to a per capita use of 109 gallons per day/per person. There was a total of 18.95” of rainfall for this period.

ANALYSIS OF ISSUES:
The United States Drought Monitor, as of November 7, 2019 shows San Luis Obispo County in a normal condition. Rainfall to date (July 1, 2019 to October 31, 2019) was 0 inches at the Corporation Yard rain gauge. Lopez Lake, as of November 13, 2019, is at 52.3% capacity (25,846 acre-feet of storage).
The new water year began on April 1, 2019 and the current total available supply from Lopez is 2,290 acre-feet, our normal entitlement. 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 2019/20 is 2,200 acre-feet. In conclusion, based on average rainfall for the next two years, the current supply will meet the projected demand.

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.

Attachment:

1. Lopez Monthly Operations Report for October 2019
1a. Lopez Monthly Operations Report for March 2019
2. Lopez Reservoir Storage Projection
3. Monthly Water Use Comparison
San Luis Obispo County Flood Control and Water District
Zone 3 - Lopez Project - Monthly Operations Report
October, 2019

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

Lopez Dam Operations
Lake Elevation (full at 522.37 feet) 491.97
Storage (full at 49200 acre feet) 26126
Rainfall 0 0.00
Downstream Release (4200 acre feet/year) 287.25 1522.47
Spillage (acre feet) 0 0.00

San Miguelito
106.39 11.92

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ATTACHMENT 1
### Lopez Water Deliveries

#### This Month

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Entitlement</th>
<th>Surplus</th>
<th>Total</th>
<th>Usage</th>
<th>%</th>
<th>Usage</th>
<th>%</th>
<th>Usage</th>
<th>%</th>
<th>Average Water Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arroyo Grande</td>
<td>124.37</td>
<td>5.4%</td>
<td>129.77</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>129.77</td>
</tr>
<tr>
<td>Oceano CSD</td>
<td>19.62</td>
<td>9.04%</td>
<td>45.00</td>
<td>75.00</td>
<td>16.2%</td>
<td>0.00</td>
<td>0.0%</td>
<td>75.00</td>
<td>16.2%</td>
<td>45.00</td>
</tr>
<tr>
<td>Grover Beach</td>
<td>26.2%</td>
<td>4.6%</td>
<td>30.87</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>30.87</td>
</tr>
<tr>
<td>Pismo Beach</td>
<td>3.35</td>
<td>0.00%</td>
<td>6.67</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>6.67</td>
</tr>
<tr>
<td>CSA 12</td>
<td>7.77</td>
<td>0.00%</td>
<td>7.77</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>7.77</td>
</tr>
<tr>
<td>San Miguelito</td>
<td>6.1%</td>
<td>24.3%</td>
<td>30.3%</td>
<td>28.66</td>
<td>91.7%</td>
<td>28.66</td>
<td>91.7%</td>
<td>28.66</td>
<td>91.7%</td>
<td>30.3%</td>
</tr>
<tr>
<td>Total</td>
<td>5.4%</td>
<td>4.6%</td>
<td>10.0%</td>
<td>28.66</td>
<td>91.7%</td>
<td>28.66</td>
<td>91.7%</td>
<td>28.66</td>
<td>91.7%</td>
<td>10.0%</td>
</tr>
</tbody>
</table>

#### This Month Entitlement + Surplus Water Usage

- **Total Water Deliveries**: 10.0%

### State Water Deliveries

#### This Month

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Entitlement</th>
<th>Surplus</th>
<th>Total</th>
<th>Usage</th>
<th>%</th>
<th>Usage</th>
<th>%</th>
<th>Usage</th>
<th>%</th>
<th>Change in Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arroyo Grande</td>
<td>2084.03</td>
<td>73.0%</td>
<td>2084.03</td>
<td>91.0%</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
</tr>
<tr>
<td>Oceano CSD</td>
<td>378.00</td>
<td>100.0%</td>
<td>378.00</td>
<td>100.0%</td>
<td>0.00</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
</tr>
<tr>
<td>Grover Beach</td>
<td>196.41</td>
<td>43.56%</td>
<td>196.41</td>
<td>43.56%</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
</tr>
<tr>
<td>Pismo Beach</td>
<td>0.00</td>
<td>0.00%</td>
<td>0.00</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
</tr>
<tr>
<td>CSA 12</td>
<td>15.78</td>
<td>0.00%</td>
<td>15.78</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
</tr>
<tr>
<td>San Miguelito</td>
<td>7.77</td>
<td>0.00%</td>
<td>7.77</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
</tr>
<tr>
<td>Total</td>
<td>564.00</td>
<td>100.0%</td>
<td>564.00</td>
<td>100.0%</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
<td>0.0%</td>
<td>0.00</td>
</tr>
</tbody>
</table>

#### This Month State Water Usage

- **Total Water Deliveries**: 100.0%

### San Jose Dam Operations

<table>
<thead>
<tr>
<th>Item</th>
<th>This Month</th>
<th>Year to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake Elevation (full at 522.37 feet)</td>
<td>496.39</td>
<td>Difference (feet) -25.78</td>
</tr>
<tr>
<td>Storage (full at 49200 acre feet)</td>
<td>29008</td>
<td>% Full -59.0%</td>
</tr>
<tr>
<td>Rainfall</td>
<td>5.19</td>
<td>26.11</td>
</tr>
<tr>
<td>Downstream Release (4200 acre feet/year)</td>
<td>196.41</td>
<td>38.30.12</td>
</tr>
<tr>
<td>Spillage (acre feet)</td>
<td>0</td>
<td>0.00</td>
</tr>
</tbody>
</table>

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

**Comments:**
- 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 1.1 AF delivered to Canyon Crest was added to Oceano’s State Water usage this month and 1.1 AF was subtracted from Arroyo Grande’s usage this month.

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**Graphs:**
- April to Present Lopez Entitlement + Surplus Water Usage
- January to Present State Water Usage
LOPEZ RESERVOIR STORAGE PROJECTION

Note:
1. Storage projection is based on predicted rainfall from longrangeweather.com, historic inflow based on predicted rainfall, 18-19 downstream release requests, and municipal usage.