



ANNUAL WATER SUPPLY REPORT

May 2017

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1.0 Introduction

The City of Buellton’s water is supplied by Groundwater and supplemented by State Water Project. The Groundwater is supplied from the Buellton Uplands Groundwater Basin and the Santa Ynez River Underflow. The groundwater sources are shown in Figure 1 (identified as Zone D and Zone A).

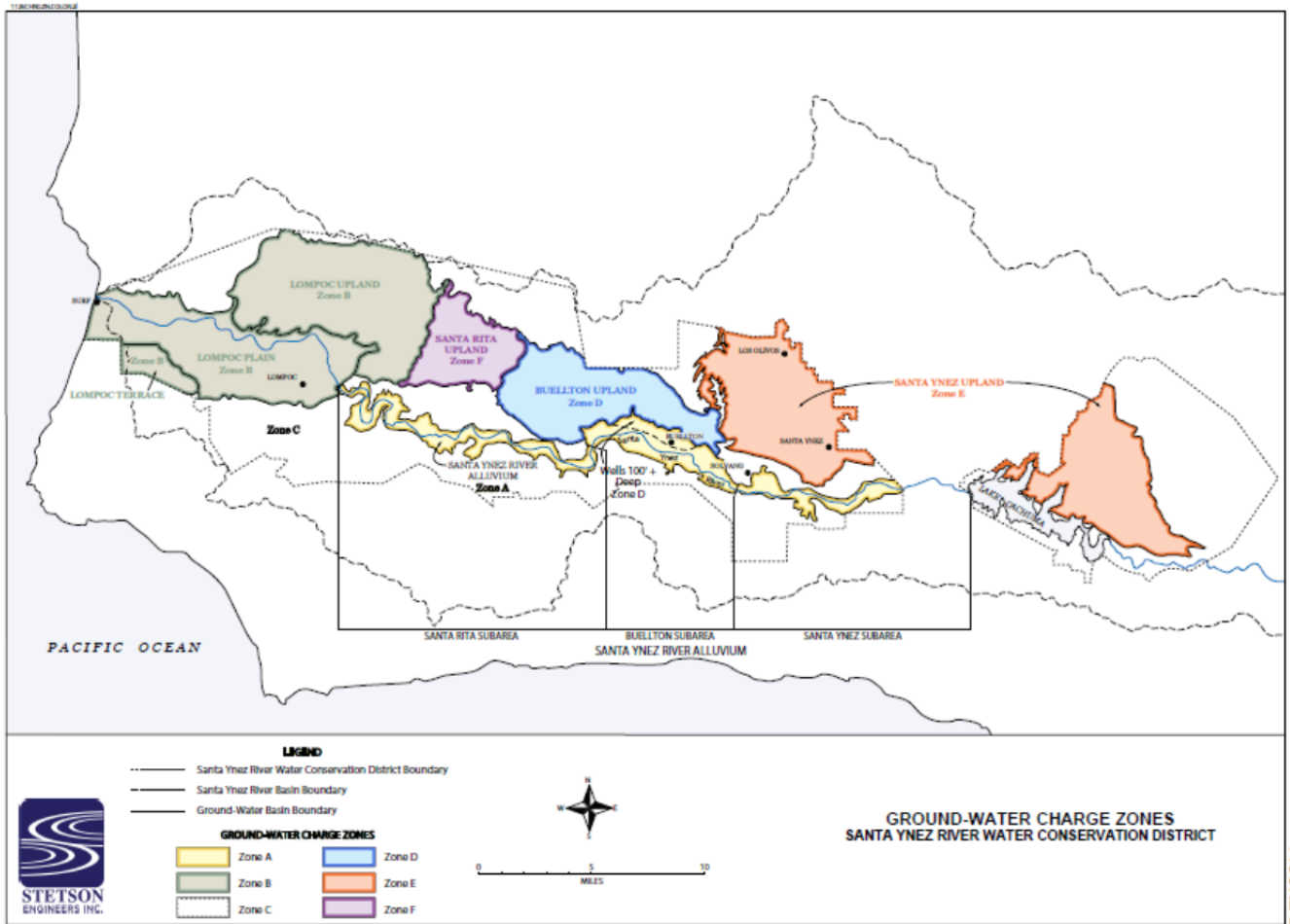


Figure 1. Groundwater Basins

The City currently has four (4) wells as part of the water supply system: three (3) shallow wells in the Santa Ynez Underflow and one (1) in the Buellton Uplands. The City also has a 5th well, located in the Santa Ynez Underflow. However, this well is used purely for irrigation purposes for the Zaca Creek Golf Course.

The City is also a participant of the State Water Project through the Central Coast Water Authority (CCWA).

CCWA owns and operates water treatment facilities and pipeline that delivers water from the State Water Project to the project participants in Santa Barbara and San Luis Obispo Counties. Buellton has one (1) turn-out from the CCWA pipeline that delivers water directly to the City's distribution system. Figure 2 provides a general exhibit of the State Water line.



Figure 2. State Water Project

2.0 Production

The City has two water treatment facilities. The McMurray Water Treatment Plant treats water pumped from the three wells in the Santa Ynez River Underflow. The City's permit to draw from the Santa Ynez River Underflow is currently 1385 acre-feet per year. The City's 246 Water Treatment Plant treats water pumped from one well in the Buellton Uplands. There are currently no permit restrictions on pumping from the Buellton Uplands. During normal and wet years, the primary wells utilized are in the Santa Ynez River Underflow. During dry/drought years, the primary well utilized is in the Buellton Uplands. Table 1 shows the total production for each source by month.

The City's State Water Project allocation is 578 acre-feet. In January 2016, the Department of Water Resources (DWR) notified its contractors that the deliveries would be reduced to 15% of the allocations. In February 2016, the allocation raised to 30%. In March 2016, DWR made a final revision to the annual allocations, rising to 45%. The City continued to conserve, utilizing only 81 acre-feet of Project water in 2016 from the available 260.1 acre-feet.

In 2016, the City produced 963 acre-feet of water (approximately 313,675,000 gallons) from its groundwater supply. Total water supply produced/received in 2016 (groundwater plus State Water Project) was 1044 acre-feet (approximately 340,190,000 gallons).

With the 2016 population of 4931, the water produced on an average daily basis was 189 gallons/day/capita.

Table 1. Water Production 2016

	Buellton Uplands	Santa Ynez River Underflow	State Water Project	Total 2015
Production Amounts (AF)	646	317	81	1044

3.0 Supply

The City of Buellton’s water is supplied by Groundwater and supplemented by State Water Project. The City’s groundwater basins are informally managed by the Santa Ynez River Water Conservation District. Formed in 1939 for the primary purpose of protecting water rights on the lower Santa Ynez River, the District has overseen the groundwater basins from Santa Ynez to Lompoc (as shown in Figure 1, page 1). The District provides an annual report summarizing the groundwater production and charges and a status of groundwater and surface water supplies.

In May 2017, the Santa Ynez River Water Conservation District published its 39th Engineering and Survey Report on Water Supply Conditions. This report summarizes the conditions of supply and basin storage, particularly during Spring which provides the best direct indication of the groundwater conditions during the past year. The Buellton Upland basin showed an increase of water level in the past year. Under normal water supply conditions, the Santa Ynez River Alluvium (Santa Ynez River Underflow) is replenished yearly. During extended drought periods, some shortages may occur, particularly in the Lompoc Basin area. During these times, a water rights release may occur from Lake Cachuma to provide replenishment. In the past year, the City did not experience any issues with shortages from its supply in the Santa Ynez River Underflow. However, several releases were made to provide replenishment to Lompoc, in which the City benefited.

During normal conditions, both groundwater supply sources are in good condition and for planning purposes are equally utilized for production of water. Table 2 provides a summary of water supply reasonably available to the City during the Fiscal Year 2017 and for a cumulative long term period (5 years). Operationally, the City utilizes one of the two groundwater sources as the primary resource based on needs and efficiency. Due to permitting rights, the primary wells the City utilizes are in the Santa Ynez River Underflow during normal and wet years. However, during dry/drought years, the primary well utilized is in the Buellton Uplands.

Table 2. Water Supply Availability

	Buellton Uplands	Santa Ynez River Underflow	State Water Project	Total 2016
FY 2017 (AF)	1,000	1,385	578	2,963
Cumulative Long Term Projection (AF)	5,000	6,925	2,890	14,815

The following Table 3 is an estimate of the water demand anticipated during Fiscal Year 2017 and over the long term (5 year) period. These estimates are well within the Supply Available in Table 2.

Table 3. Water Demand Forecast – 5 Years

	Buellton Uplands	Santa Ynez River Underflow	Total 2016
FY 2017 (AF)	750	750	1,400
Cumulative Long Term Projection (AF)	3,750	3,750	7,000

On November 10, 2016, the City Approved Resolution No. 16-26, deciding to become a Groundwater Sustainability Agency with the Santa Ynez River Water Conservation District to pursuant to the Sustainable Groundwater Management Act (SGMA). This provides the organization of the Central Management Area and begins our SGMA compliance and formal groundwater management, further protecting the long term sustainability of the City’s groundwater basin supply. The Central Management Area is shown in Figure 3.

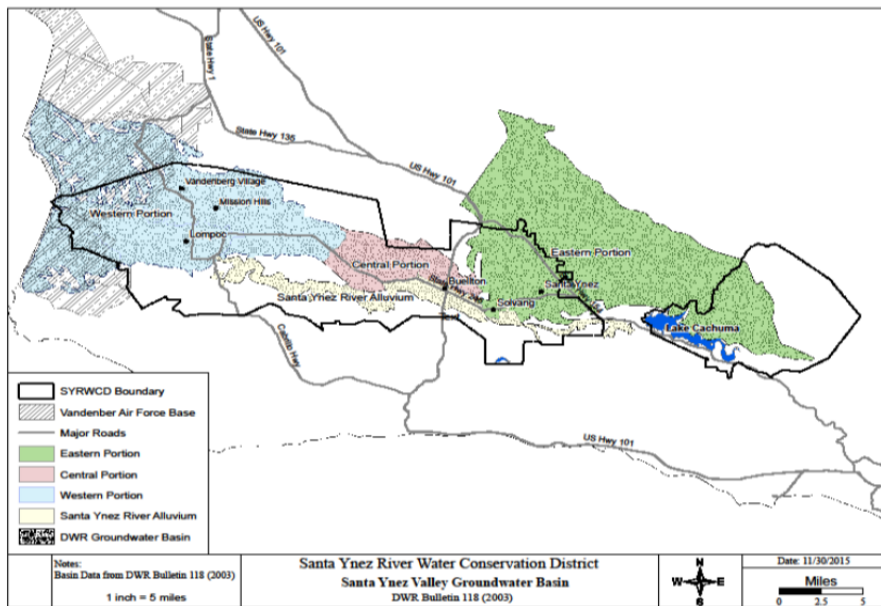


Figure 3. SGMA Basins

The City also utilizes State Water Project as part of its water supply. Buellton's State Water Project allocation is 578 acre-feet, but is subject to availability by the State. The City may utilize State Water Project water in lieu of (or in addition to) pumping from the Santa Ynez River Underflow or the Buellton Uplands. At this time, State Project Water is used to supplement the City's peak water demands or if any of the City's water facilities is under repair.

The rainy season has created an abundance of water available. During the early 2017 calendar year, the City started utilizing State Project Water due to availability of Article 21 Water (carryover water that is spilling, made available by DWR to all State Water Project Contractors that does not count against the current year 2017 allocation). Article 21 Water was received through May 11, 2107.

Previously stored carryover water in the San Luis Reservoir began to spill in February 2017. The City participated in an exchange with Metropolitan Water District, facilitated through CCWA so that all water would not be lost in the spill. An estimated amount of 234 acre-feet of water will be returned to the City between May – December 2017.

4.0 Conservation

In 2014, the City of Buellton adopted Resolution 14-19, declaring a Stage Two Water Conservation Requirement. This is pursuant to the State Water Resource Control Board's regulations declaring a State of Emergency due to severe drought conditions. Residents and businesses are required to reduce water consumption and limit outdoor irrigation in order to meet these requirements.

In an effort to advocate water conservation, the City has implemented outreach programs in conjunction with Santa Barbara County and other local jurisdictions. This outreach can be recognized as:



Currently, the City provides water conservation shower heads free to residents and businesses.