



Addendum to SOP Section 3.4 Water Sources

The water source consists of a permitted well (permit #18/19-1012,). Per the report from LINDBERG GEOLOGIC CONSULTING titled *“Hydrogeologic Isolation of Existing Well from Surface Waters Healing Sun MBC, 1000 Eubanks Road, Whitethorn, California APN: 220-082-020, WCR2020-014622”* it has been determined that *“Based on our professional experience, our observations, and research, it is our opinion the subject well has a low likelihood of being hydrologically connected to nearby surface waters in any manner that could affect adjacent wetlands and or other surface waters in the vicinity.”*

We currently have 76,800 gallons in storage tanks to ensure there is adequate storage for fire prevention and cultivation if the well pump breaks. Our crops are irrigated by hand and low flow drip irrigation as needed.

Table 1 below describes our estimated water use based on potential evapotranspiration numbers and rainfall for our area, historical use knowledge, and gallons per square foot data from other farms reporting. These numbers can change due to weather, the number of harvest cycles in a year, and the crop type.

TABLE 1. MONTHLY WATER USE (gallons), YEARLY TOTAL: 280,252 gallons												
Water Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
WELL	0	0	0	17,950	38,827	68,808	67,880	60,581	19,369	6,838	0	0
WINTER STORAGE	0	0	0	0	0	10k	10k	10k	0	0	0	0

TABLE 2. MONTHLY RAINFALL ON PROPERTY (gallons), YEARLY TOTAL: 73,934,899 gallons												
Water Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
RAINFALL	10.8 MILL	5 MILL	4.4 MILL	1.1 MILL	0	347,285	21,705	0	1 MILL	9.8 MILL	5.3 MILL	11.4 MILL

Table 2 above represents the yearly rainfall on our property. Please note page 4 paragraph 1 in the above mentioned geologic report that states:

"In our professional opinion, it appears the aquifer tapped by the subject well is recharged by rainwater infiltrating in areas proximal to the well."

Our parcel is 60 acres in size which equates to 2,614,000 square feet. Using this surface area, it is possible to estimate the amount of water that fell on our property in 2021 by incorporating the rainfall numbers from Eel River Conservation Camps rain gauge data (ERC) found at <https://raws.dri.edu/cgi-bin/rawMAIN.pl?caCEEC>, (which is conservative compared to Ettersburg Ca where our property is located), and the ratio of .623 which is a common rain catchment conversion factor¹.

$2,614,000 \text{ sq ft} * 45.4 \text{ inches of rain} * .623 = 73,934,899 \text{ gallons}$ of water that fell on our property in 2021.

Our use of 280,000 gallons represents just .3% of the water that falls on our property. We feel that using less than 1% of the water that falls on our property in a drought year is a responsible and reasonable use.

¹ <https://www.watercache.com/resources/rainwater-collection-calculator>