Attachment 1



City of Clearlake

INITIAL FEES:

\$880.00

100	City of Clearla	ke	APC (APPEAL)	\$880.00
Clearlake	14050 Olympic Drive, Clearlake, Califor (707) 994-8201 Fax (707) 1994-8201 Fax	nia 95422		
Project Name:	NOV 1 5			
			Receipt #	2454
To be completed by S	Staff (Project Numbers) CITY OF CLE	ARLAKE	Received By	CM
APC:	-		Date	\$880.00
	Note: The sections in "red" must be	filled out completely.		
	APPLICANT:	PROPERT	Y OWNER (IF NOT APP	LICANT):
PRIMARY PHONE: () EMAIL:	ICE CA 95422 ZIP: 95422 ZIP: 95422 JOD-994-9940 Let I am the owner of sall droperty or have written authority from on. I certify that all of the submitted information is true and correct ellef. I understand that any misrepresentation of submitted data application ROJECT LOCATION: Og ulin Canyon Rd, Cleanage Ac CA ID: UNIMPROVED Well	CITY: San (Cate) STATE: PRIMARY PHONE: (_ EMAIL: SIGNATURE: I declare under penalty of perjuip property owner to file this applice the best of my knowledge and invalidate any approval of this application of the perium property owner to file this application of the perium property owner to file this application. ZONING: GENERAL PLAN: APPROVED: RELATED FILES:	ry that I am the owner of said property ation. I certify that all of the submitted in belief. I understand that any misrepreser	or have written authority from formation is true and correct to nation of submitted data may
	DETAILED RE	ASON FOR FILING AI	PPEAL	
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Receipt Number:

R00002454

Cashier Name:

Register Operator

Terminal Number:

Receipt Date: 11/15/2021 6:41:13 PM

DAVID HUGHES - APPEAL TO PC CUP 2021-05/2021

Trans Code: 106 - Planning/Zoning

Name: DAVID HUGHES - APPEAL TO PC CUP 2021

\$880.00

Product: PLANNING/ZONING

Units:

0.00 Amount: 880.00

DAVID HUGHES - APPEAL TO PC CUP 2021-05/2021-06/2021-07/2021-08 880.00

PLANNING/ZONING 880.00

Total Balance Due:

\$880.00

Payment Method: CHECK

Payor: DAVID HUGHES - APPEAL T Reference: CHECK # 3391

Amount:

\$880.00

Total Payment Received:

\$880.00

Change:

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I am appealing approval of the Use Permit approved on Tuesday, November 9, 2021 at the above property on behalf of at least 11 property owners living in the Burns Valley area southwest of the subject location.

The subject property is within the Burns Valley Watershed. Many of the wells in Burns Valley have been adversely affected by development of property within the watershed for grape vineyards and other cannabis grow projects. The Water Availability Analysis did not discuss or analyze the cumulative effect that the use will have on the watershed nor did it address the cumulative effect of the project when combined with existing or approved projects.

The watershed straddles both the East and West sides of State Hwy 53 north almost to State Hwy 20. We feel the cumulative effect of adding this project to the existing uses should be considered prior to approval a Use Permit. On the West side there is a wine grape vineyard covering approximately 500 acres. Some of the Burns Valley property owners feel their wells were impacted by the vineyard. This year there are 2 active and permitted cannabis grow operations north of Ogulin on the East side of State Hwy 53; there is also an additional recently approved cannabis grow permit further north on Ogulin Canyon Rd from the 2185 site. The City approved a cannabis operation earlier this year at 2560 State Hwy 53 bordering Burns Valley Creek and located across from the school bus yard at Hwy 53 and Old Hwy 53. Thursday, November 18, 2021, the Lake County Planning Commission will consider a Use Permit for a cannabis grow just outside the Clearlake City Limits at 2050 Ogulin Canyon Rd; we will be attending this hearing and asking for a more extensive cumulative study of the watershed.

Studies referenced in the various hydrology reports for the various projects are dated with some going back as far as 1960; the most referenced is the March 2006 Lake County Groundwater Management Plan, which is now 15 years old.

I have attached the Hydrology report for 2050 Ogulin Canyon Rd with contains a map showing the 12.5 sq mile Burns Valley Watershed drainage area which includes the Burns Valley Basin for reference.

It is our feeling that a more complete hydrology study should be completed which includes the affect of this project and considering the vineyard plus the existing and approved cannabis projects to determine the impact on the water supply in the Burns Valley basin.



TECHNICAL MEMORANDUM

To: Lake County Community Development Department

From: Annjanette Dodd, PhD, CA PE #77756 Exp. 6/30/2023

Date: August 19, 2021

Subject: Ordinance 3106 Hydrology Report - UP 19-36 Lake Vista Farms, LLC

2050 and 2122 Ogulin Canyon Road, Clearlake, (APNs 010-053-01 and 010-053-02)



On July 27, 2021, the Lake County Board of Supervisors passed an Urgency Ordinance (Ordinance 3106) requiring land use applicants to provide enhanced water analysis during a declared drought emergency. Ordinance 3106 requires that all projects that require a CEQA analysis of water use include the following items in a Hydrology Report prepared by a licensed professional experienced in water resources:

- Approximate amount of water available for the project's identified water source.
- Approximate recharge rate for the project's identified water source, and
- Cumulative impact of water use to surrounding areas due to the project.

The purpose of this Technical Memorandum (TM) is to provide the information required by Ordinance 3106 for UP 19-36, Lake Vista Farms, LLC. In addition to the Hydrology Report, Ordinance 3106 requires a Drought Management Plan (DMP) depicting how the applicant proposes to reduce water use during a declared drought emergency. The DMP for this project has been submitted as a separate document.

PROJECT LOCATION

The project is located 2050 and 2122 Ogulin Canyon Road, Clearlake, Lake County, California (APNs 010-053-01 and 010-053-02). The project site is located northeast of the City of Clearlake, about 1- mile east of State Highway 53. The project site is part of a former hops farm, operated as Hops-Meister Farms, cultivating approximately 13.6-acres of hops beginning in about 2009.

PROPOSED PROJECT

The project proposes 15-acres of outdoor cannabis cultivation without the use of light deprivation and/or artificial lighting. The proposed cultivation will be distributed across five (5) sites (Figure 1), labeled A through E.



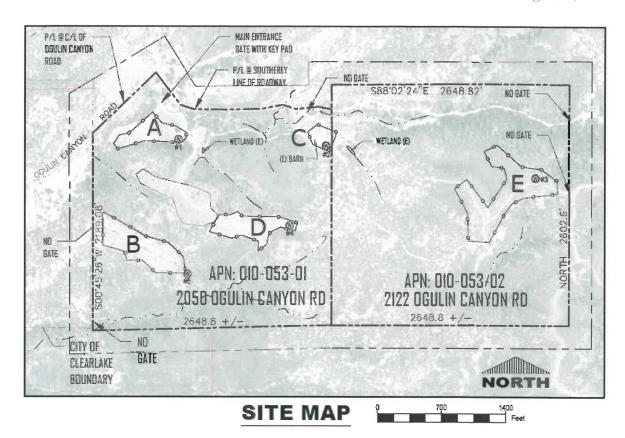


Figure 1. Proposed Site Map

PROJECT WATER DEMAND

The CalCannabis Environmental Impact Report (CDFA, 2017) uses 6.0 gallons per day per plant as an estimated water demand for cannabis cultivation. This is 1.0 gallons (gpd) per plant more than reported by Bauer et. el. (2015), who reported up to 5.0 (gpd) per plant (18.9 Liters/day/plant). Using the more conservative estimate of 6.0 gpd, and assuming there are approximately 500 plants per acre of canopy (CDFA, 2017), the demand is 3,000 gpd (2.1 gallons per minute [gpm]) per acre of canopy; this use rate is consistent with the Water Use Management Plan section (Section 15.2) of the project's Property Management Plan. The total water demand for 15-acres of canopy is approximately as follows:

- Daily 45,000 gpd (31.5 gpm)
- Yearly
 - o 120 day cultivation season 16.6 acre-feet (AF)
 - o 180 day cultivation season 24.9 AF

WATER SOURCE AND SUPPLY

There are five (5) existing, permitted groundwater wells that would be used for cultivation. The yield for each well is summarized in the Table 1 and shown on Figures 1 and 3. The well logs are attached to this TM (Attachment 1). The wells range in depth from 114 ft to 460 ft and have a combined yield of 720 gpm



(1,161 acre-feet per year). The potential daily demand of 31.5 gpm represents 4.4% of the combined well yield and between 1.4-2.1% of the combined annual production in acre-feet.

Site	Name (Well Latitude/Longitude)	Groundwater Basin ¹	Well #	Depth (ft)	Yield (gpm)
A	Northwestern Hops Field (38.982011, -122.599900)		1	240	60
В	Southwest Clearing (38.978344, -122.599803)	Burns Valley	5	340	300
С	Northeast Hops Field (38.982033, -122.594181)		2	114	60
D	Central Hops Field (38.979569, -122.595764)	Clearlake Cache	4	358	200
Е	Chaparral Clearing (38.980981, -122.586219)	Formation	3	460	100

Table 1. Summary of cannabis cultivation canopy areas for each cultivation site.

¹California Department of Water Resources, California Groundwater (Bulletin 18)

IRRIGATION AND WATER STORAGE

Irrigation for the cultivation operation will use water supplied by the existing wells. The irrigation water would be pumped from each well, via PVC piping, to a 2,500-gallon water storage tank, adjacent to each well, and then delivered to a drip irrigation system. The drip lines will be sized to irrigate the cultivation areas at a rate slow enough to maximize absorption and prevent runoff. Drip irrigation systems, when done properly, conserve water compared to other irrigation techniques.

GROUNDWATER BASIN INFORMATION AND HYDROGEOLOGY

The project's water sources are located within the eastern portion of the Burns Valley (Basin #5-17) Groundwater Basin and the western portion of the Clear Lake Cache Formation (Basin #5-66) Groundwater Basin (Table 1, Figure 2 and Figure 3).

The Burns Valley Basin is within the Burns Valley Watershed. The Franciscan Formation borders the Burns Valley Basin on the north, Clear Lake borders the basin on the west, and the Cache Formation borders the basin on the south and east. The valley is drained by Burns Valley Creek, flowing southwest, and eventually into Clearlake. There are three water bearing formations in the Burns Valley Basin, The Quaternary Alluvium, Quaternary Terrace Deposits, and Lower Lake Formation. *Quaternary Alluvium* located in the valley lowlands in the southern end of the valley are composed of silt, sand, and gravel with a thickness up to 50 feet. Groundwater in this formation is unconfined and typically provides water for domestic use. *Quaternary Terrace Deposits* have been deposited on the sides of the alluvial plain in the Burns Valley Basin. The terrace deposits are approximately 15 feet above the valley floor and slope up the valley to a similar elevation as the foothill exposures of the Cache Formation. Groundwater in this formation is not well understood. The *Lower Lake Formation*, consisting of lake deposits, underlies the alluvial and terrace deposits in the basin. The formation consists of fine sands, silts, and thick interbeds of marl and limestone, and has a maximum thickness of 200 feet. The formation has low permeability and provides water to wells at up to a few hundred gallons per minute. The California Department of Water Resources (DWR) estimated a storage capacity of the Burns Valley Basin as 4,000 AF with a usable storage



capacity of 1,400 AF. According to DWR, almost all the groundwater in the Burns Valley Basin is derived from rain that falls within the 12.5 square mile Burns Valley Watershed drainage area. According to the Lake County Groundwater Management Plan, dated 2006, agricultural demand during an average year is 105 AF per year; of this, 14 AF is supplied from groundwater. Wells in the valley range in depth between 25-feet and 525-feet. (CDM 2006 and California DWR 2003, 2021)

The Clear Lake Cache Formation Basin shares a boundary with the Burns Valley Groundwater Basin in the southwest. Lower Cretaceous marine and Mesozoic ultrabasic intrusive rocks bound the south of the basin. Lower Cretaceous marine deposits border the east portion of the basin, and the Franciscan Formation borders the north and west portions of the basin. The basin is drained by the North Fork Cache Creek and Cache Creek to the south and east. The primary water-bearing formation is the Cache Formation. The Cache Formation is largely made up of lake deposits. The formation consists of tuffaceous and diatomaceous sands and silts, limestone, gravel, and intercalated volcanic rocks. In some areas the general lithology includes up to 400 feet of blue clay and shale with alternating strata of shale and limestone below 400-feet. The permeability of the formation is generally low. According to the Lake County Groundwater Management Plan, dated 2006, agricultural demand during an average year is 100 AF; of this, 85 AF is supplied from groundwater. Wells in the valley range in depth between 5-feet and 500-feet. (CDM 2006 and California DWR 2003, 2021)

Neither of these basins have been identified by the California Department of Water Resources (DWR) as critically overdrafted basins. Critically overdrafted is defined by DWR as, "A basin subject to critical overdraft when continuation of present water management practices would probably result in significant adverse overdraft-related environmental, social, or economic impacts." In addition, as part of the California Statewide Groundwater Elevation Monitoring (CASGEM) Program, DWR created the CASGEM Groundwater Basin Prioritization statewide ranking system to prioritize California groundwater basins in order to help identify, evaluate, and determine the need for additional groundwater level monitoring. California's groundwater basins were classified into one of four categories high-, medium-, low-, or very low-priority. Both the Burns Valley and Clear Lake Cache Formation Basins were ranked as very low-priority basins by the CASGEM ranking system. (DWR, 2021)



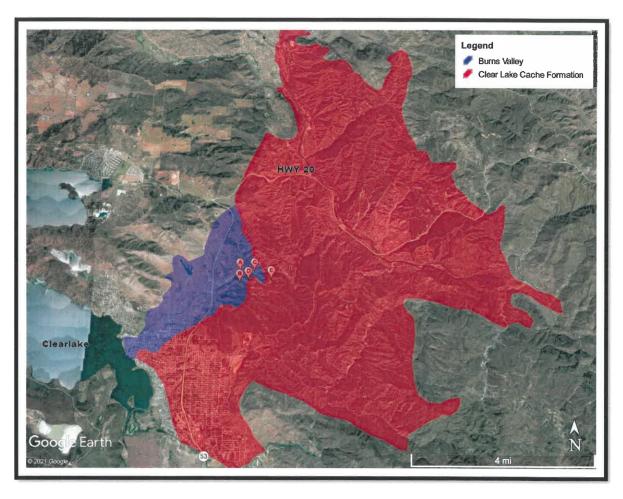


Figure 2. Field Locations (labeled A through E) and Mapped Groundwater Basins



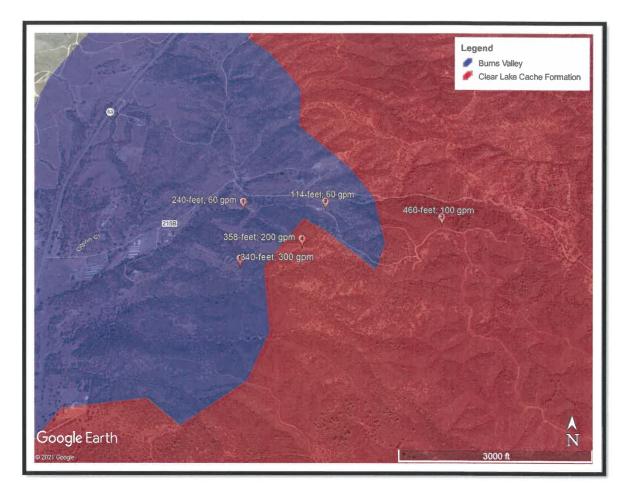


Figure 3. Well Locations (numbered 1 through 5) and Mapped Groundwater Basins

RECHARGE RATE

The annual recharge can be estimated using a water balance equation, where recharge is equal to precipitation (P) less runoff (Q) and abstractions that do not contribute to infiltration (e.g., evapotranspiration). A simple tool that can be used to estimate runoff and abstractions, that uses readily available data, is the Natural Resources Conservation Service (NRCS) Curve Number (CN) Method (NRCS, 1986). Determination of the CN depends on the watershed's soil and cover conditions, cover type, treatment, and hydrologic condition. The CN Method runoff equation is

$$Q = \frac{(P - I_a)^2}{(P - I_a) + S}$$

where

Q = runoff (inches)

P = rainfall (inches)

S =potential maximum retention after runoff begins (inches) and

 I_a = initial abstraction (inches)



The initial abstraction (I_a) represents all losses before runoff begins, including initial infiltration, surface depression storage, evapotranspiration, and other factors. The initial abstraction is estimated as $I_a = 0.2S$. S is related to soil and cover conditions of the watershed through the CN, determined as S = 1000/CN - 10. Using these relations, the runoff equation becomes:

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

The CN is estimated based on hydrologic soil group (HSG), cover type, condition, and land use over the area of recharge, which is estimated as the area of the watershed contributing to the wells. Although well numbers 3 and 4 are located in the Clear Lake Cache Formation, they are on the western boundary and within the Burns Valley Watershed. The approximate area of recharge, 954 acres, was delineated using USGS StreamStats (https://streamstats.usgs.gov/ss/) and is shown in Figure 4.

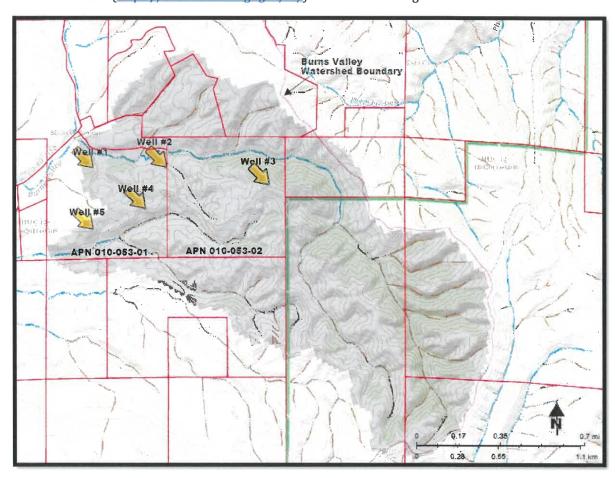


Figure 4. Recharge Area (Shaded Area)

Soils are classified into four HSGs (A, B, C, and D) according to the soils ability to infiltrate water; where HSG A has the highest infiltration potential and HSG D has the lowest infiltration potential. HSGs are based on soil type and are determined from the NRCS Web Soil Survey



(https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm).

The recharge area is comprised of two HSGs: 942 acres (99%) HSG C and 12 acres (1%) HSG D (Attachment 2). The area is dominated by HSG C. The land use is undeveloped with a cover type of brush in fair (50% to 75% ground cover) condition and has CNs of 70 and 77 for HSGs C and D, respectively. The weighted CN for the recharge area is 70.

The PRISM Climate Group gathers climate observations from a wide range of monitoring networks and provides time series values of precipitation for individual locations (https://prism.oregonstate.edu/explorer/). Using the annual precipitation from 1895 to 2020, as predicted by PRISM, the annual average precipitation over this period is 27.5 inches and the minimum precipitation over this period is 6.5 inches (Attachment 3).

Using the above information, and assuming that 50% of the initial abstraction infiltrates and the remainder is evapotranspiration (0.43 inches or 34.2 AF), the estimated annual recharge over the recharge area of 954 acres is 328 AF during an average year and 228 AF during a dry year (Table 1).

Recharge						Recharge =	
Area	P		S	I _a	Q	$P - Q - 0.5*I_a$	Recharge
(acres)	(inches)	CN	(inches)	(inches)	(inches)	(inches)	(AF)
954	6.5	70	4.29	0.86	3.2	2.9	228
954	27.5	70	4.29	0.86	23.0	4.1	328

Table 2. Estimated annual recharge over the recharge area of the project's well.

CUMULATIVE IMPACT TO SURROUNDING AREAS

The Burns Valley Groundwater Basin has a storage capacity of 4,000 AF with a usable storage capacity of 1,400 AF (CDM 2006 and California DWR 2003, 2021). The proposed project's demand, 24.9 AF, is 1.8% of the usable storage capacity. In addition, the proposed 15-acres cannabis cultivation is replacing approximately 13.6 acres of hops cultivation. Hops have large leaf area and require a significant amount of water, approximately 1.5-inches of water equivalent per week (Bamka and Dager, 2002). This equates to 40,700 gallons per acre per week or 5,800 gallons per day (gpd) per acre (note: 1 US gallon equates to 231 cubic inches); which is almost double the amount of water used to cultivate cannabis (43.6 AF per year for hops). The proposed cannabis cultivation would use less water compared to farming hops and would have less of an impact on the surrounding area.

Since all five project wells are within the Burns Valley Watershed, it is likely that they would have the most impact on the Burns Valley Groundwater Basin. Annual water demand of the proposed project could be up to 24.9 AF per year, depending on the length of the cultivation season, which is approximately 8% and 11% of the annual recharge during an average and dry year, respectively. The project recharge area of 954 acres would need just under 1-inch of rain per year to meet the project's demand. Thus, there is sufficient rainfall recharge, on an annual basis, to meet the project's demand, even during low precipitation years.

According to the Lake County Groundwater Management Plan, there are 86 domestic wells and 9 irrigation wells in the Burns Valley Basin and agricultural demand during an average year is 105 AF per year; of this, 14 AF is supplied from groundwater. The Groundwater Management Plan is dated 2006, and does not include the demand from the hops farm. With the 13.6-acre hops farm included, the average



annual groundwater demand for irrigation is 57.6 AF. Replacing the 13.6-acres of hops with 15.0-acres of cannabis reduces the average annual demand from 57.6 AF to 38.9 AF or only 2.8% of the usable storage capacity in the Burns Valley Basin.

The Burns Valley Groundwater Basin appears to have sufficient storage and recharge to meet the proposed projects' water demand, during both a dry and average rainfall year. In addition, the proposed cannabis cultivation uses less water than the previous hops farm. Therefore, the proposed project water use would not likely have a cumulative impact on the surrounding area.

QUALIFICATIONS OF AUTHOR

I am a registered Professional Engineer with the State of California with 30-years of experience practicing and teaching Water Resources Engineering.

REFERENCES

- Bamka, W and Dager, E (2002). Growing Hops in the Backyard. Rutgers Cooperative Research & Extension. Published January 2002. Accessed August 2021.
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 - https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1044171.pdf



Attachments:

- 1. Well Logs
- 2. NRCS Soil Survey Results
- 3. PRISM Climate Precipitation 1895 to 2020



ATTACHMENT 1 WELL LOGS LAKE VISTA FARMS, LLC

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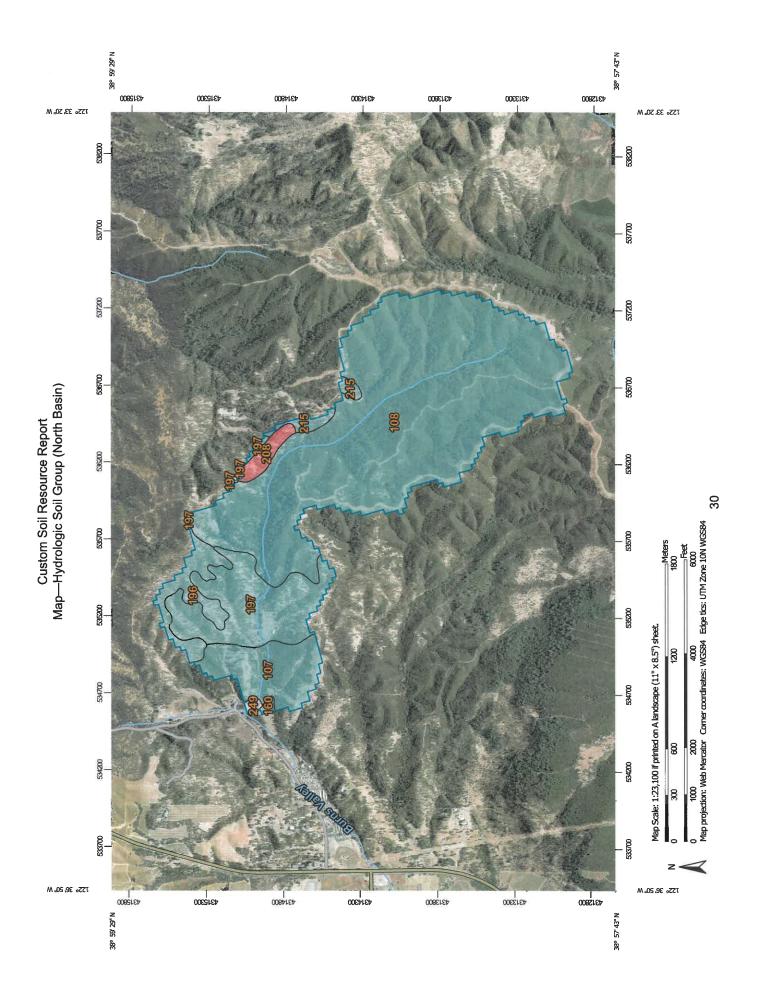
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ATTACHMENT 2 NRCS SOIL SURVEY RESULTS HYDROLOGIC SOIL GROUPS LAKE VISTA FARMS, LLC



This product is generated from the USDA-NRCS certified data as Date(s) aerial images were photographed: Sep 18, 2016—May 10, 2019 distance and area. A projection that preserves area, such as the Maps from the Web Soil Survey are based on the Web Mercator The orthophoto or other base map on which the soil lines were projection, which preserves direction and shape but distorts compiled and digitized probably differs from the background Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Source of Map: Natural Resources Conservation Service Albers equal-area conic projection, should be used if more imagery displayed on these maps. As a result, some minor The soil surveys that comprise your AOI were mapped at Please rely on the bar scale on each map sheet for map accurate calculations of distance or area are required. Coordinate System: Web Mercator (EPSG:3857) MAP INFORMATION shifting of map unit boundaries may be evident, Soil Survey Area: Lake County, California Survey Area Data: Version 17, Jun 1, 2020 of the version date(s) listed below. Web Soil Survey URL: measurements. Not rated or not available Streams and Canals Interstate Highways Aerial Photography Major Roads Local Roads US Routes Rails C/D Water Features Transportation Background MAP LEGEND ** 1 Not rated or not available Not rated or not available Area of Interest (AOI) Soil Rating Polygons Area of Interest (AOI) Soil Rating Points Soil Rating Lines 8/0 B/D S δ S Ş ΑD 8/D В ۵ ⋖ 1 я. Я. 器

Custom Soil Resource Report

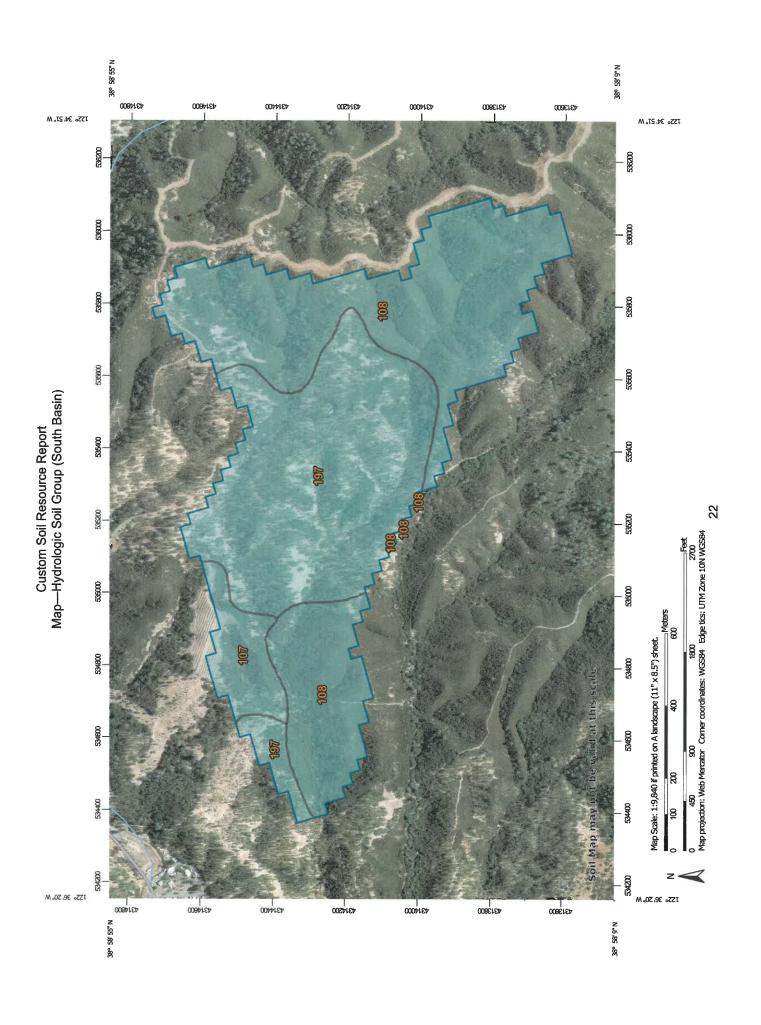
Table—Hydrologic Soil Group (North Basin)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
107	Bally-Phipps complex, 15 to 30 percent slopes	С	61.8	8.5%
108	Bally-Phipps- Haploxeralfs association, 30 to 75 percent slopes	С	507.5	69.4%
160	Manzanita loam, 5 to 15 percent slopes	С	1.9	0.3%
196	Phipps complex, 15 to 30 percent slopes	С	34.0	4.6%
197	Phipps complex, 30 to 50 percent slopes	С	102.3	14.0%
208	Skyhigh-Asbill complex, 15 to 50 percent slopes	D	11.5	1.6%
215	Sleeper variant-Sleeper loams, 30 to 50 percent slopes	С	10.0	1.4%
249	Xerofluvents-Riverwash complex		2.0	0.3%
Totals for Area of Inter	est	731.0	100.0%	

Rating Options—Hydrologic Soil Group (North Basin)

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher



This product is generated from the USDA-NRCS certified data as distance and area. A projection that preserves area, such as the Date(s) aerial images were photographed: Sep 18, 2016—Nov 4, 2017 contrasting soils that could have been shown at a more detailed Maps from the Web Soil Survey are based on the Web Mercator misunderstanding of the detail of mapping and accuracy of soil Enlargement of maps beyond the scale of mapping can cause The orthophoto or other base map on which the soil lines were projection, which preserves direction and shape but distorts compiled and digitized probably differs from the background Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Source of Map: Natural Resources Conservation Service imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. Albers equal-area conic projection, should be used if more line placement. The maps do not show the small areas of The soil surveys that comprise your AOI were mapped at Please rely on the bar scale on each map sheet for map accurate calculations of distance or area are required. Coordinate System: Web Mercator (EPSG:3857) MAP INFORMATION Warning: Soil Map may not be valid at this scale. Survey Area Data: Version 17, Jun 1, 2020 Soil Survey Area: Lake County, California of the version date(s) listed below. Web Soil Survey URL: measurements. 1:24,000. Not rated or not available Streams and Canals Interstate Highways Aerial Photography Major Roads Local Roads US Routes Rails C/O Water Features **Transportation** ۵ Background MAP LEGEND ***** Ī Not rated or not available Not rated or not available Area of Interest (AOI) Soil Rating Polygons Area of Interest (AOI) Soil Rating Points Soil Rating Lines 2 å B/D S å B/O Total Park %. %. }

Custom Soil Resource Report

Table—Hydrologic Soil Group (South Basin)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
107	Bally-Phipps complex, 15 to 30 percent slopes	С	13.8	6.2%
108	Bally-Phipps- Haploxeralfs association, 30 to 75 percent slopes	С	112.3	50.6%
197	Phipps complex, 30 to 50 percent slopes	С	95.8	43.2%
Totals for Area of Inter	est	222.0	100.0%	

Rating Options—Hydrologic Soil Group (South Basin)

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

ATTACHMENT 3 PRISM PRECIPITATION 1895-2020 LAKE VISTA FARMS, LLC

PRISM Time Series Data

Location: Lat: 38.9813 Lon: -122.5945 Elev: 1634ft

Climate variable: ppt Spatial resolution: 4km Period: 1895 - 2020 Dataset: AN81m

PRISM day definition: 24 hours ending at 1200 UTC on the day shown

Grid Cell Interpolation: On

Time series generated: 2021-Aug-16

Details: http://www.prism.oregonstate.edu/documents/PRISM_datasets.pdf

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19	926	34.49					
19	927	28.45					
19	928	20.62					
19	929	15.29					
19	930	17.41					

1934 18.91 1935 25.48 1936 25.52 1937 34.4 1938 31.82 1939 12.63 1940 46.02 1941 45.09 1942 32.28 1943 21.27 1944 26.49 1945 29.24 1946 14.2 1947 16.79 1948 23.39 1949 16.78 1950 34.38 1951 29.78 1952 34.45 1953 21.19 1954 29.38 1955 24.98 1956 21.1 1957 30.79 1958 35.6 1959 20.63 1960 27.07 1961 20.06 1962 27.04 1963 28.52 1964 23 1965 25.92 1966 22.66 27.6 1967 1968 30.44 1969 34.03 1970 35.32 1971 17.7 1972 19.37 1973 41.58 1974 23.99 1975 24.29 1976 8.63 1977 19.17

1978	30.24
1979	34.99
1980	24.62
1981	31.16
1982	33.5
1983	62.26
1984	21.22
1985	16.61
1986	38.61
1987	27.83
	17.57
1988	
1989	20.95
1990	16.75
1991	24.08
1992	29.87
1993	36.33
1994	21.27
1995	55.42
1996	36.89
1997	30.2
1998	52.5
1999	23.46
2000	27.45
2001	36.14
2002	28.7
2003	32.85
2004	33.62
2005	39.04
2006	34.76
2007	13.57
2008	19.35
2009	17.68
2010	33.89
2011	23.12
2012	30.45
2013	6.46
2013	31.29
2015	18.08
2015	35.65
2016	33.63 43.57
2018	23.61
2019	43.17
2020	9.92