



REPORT OF FINDINGS - HYDROLOGY REPORT

Site Information:

8550 HWY 175
Kelseyville, Lake County, CA
APNs: 011-055-06, 011-056-01, 009-022-54, 009-022-55, 009-002-56

Prepared for:

Crystal Keesey

Prepared by:

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Prepared: August 4, 2021



1.0 INTRODUCTION

Chico Environmental prepared this Report of Findings to determine groundwater availability for 32 acres of cannabis grown at five parcels in Kelseyville, CA collectively called "Red Hills Ranch" designated by Assessor's Parcel Numbers (APNs) 009-022-54, 009-022-55, 009-022-56, 011-055-06 and 011-056-01 ("subject property" or "site"). A groundwater well owned by Red Hills Ranch to be used to irrigate the grow area is located on APN 009-022-83 at 7815 S. State Highway 29 Kelseyville, CA. Another domestic well will be used for backup on APN 009-022-56 at 8550 Highway 175 Kelseyville, CA. The wells are situated in the Clear Lake Pleistocene Volcanic Area Groundwater Basin, a rural portion of southwestern Lake County, California (Figure 1). The purpose of this investigation is to determine if the aquifer has sufficient quantity to support 32-acres of outdoor cannabis cultivation on the subject properties.

2.0 BACKGROUND

Chico Environmental conducted a site visit to the site on July 29, 2021 (**Appendix A**). Chico Environmental reviewed Well Completion Reports within Lake County from DWR (**Appendix B**). Chico Environmental also reviewed Lake County groundwater ordinances, the California State Sustainable Groundwater Management Act (SGMA), geology maps (**Figure 2**), topography maps (**Figure 3**) groundwater well locations (**Figure 4**). On May 6, 2004 a 477 feet below ground surface (bgs) irrigation well was drilled by Huckfeldt Well Drilling at the subject site and the well log is included in **Appendix C**. The Water Demand and Water Availability Analysis conducted for this property is included in **Appendix D**.

3.0 GEOLOGY

The subject property is located in the Coast Range Geomorphic Province of California. The Coast Range is comprised largely of the Franciscan Complex which represents an accretionary complex formed by long-term subduction of an oceanic plate under the western margin of the North American craton. The Franciscan complex is composed of three distinguishable belts: the eastern belt, the central belt, and the coastal belt. Formation of the accretionary complex began during the late Jurassic in the eastern belt and has continued into the Miocene along the western coastal belt. The complex trends NNW and is bounded by the San Andreas Fault to the east and by the coastal range fault to the west. The coast range fault separates the Franciscan complex with the partly coeval Great Valley sequence.

The geologic evolution of the Coast Ranges includes underwater deposition, mountain building episodes, volcanism, and regional faulting. The Franciscan Formation was originally deposited 125 million years ago at the edge of the Pacific Ocean, and the fluctuating sea levels caused alternating deposition of shale and sandstone. After the formation was deposited, it was uplifted and squeezed by movement of tectonic plates, forming the majority of the Coast Ranges as we see it today. The Franciscan Formation forms the bedrock in the mountains and under other valley formations.

Faulting occurred in Lake County, lowering an area in the Coast Ranges. This area became filled with gravels and sands from creeks in the mountains and became the Cache Formation.



Toward the end of the Cache Formation's deposition, faulting created a depression that combined with lava flows created the basin that contains Clear Lake. Volcanic activity occurred intermittently through the Pleistocene with the extrusion of a number of separate lava flows, beginning the deposition of the Clear Lake Pleistocene Volcanics, including Mount Konocti and the surrounding area. Other depressions and valleys in the Coast Ranges began to be filled with sands, silts and gravels carried by streams, resulting in the deposition of alluvial basins. Significant information is available for sedimentary deposits in groundwater basins, however there is little information available for the Clear Lake Volcanics groundwater source area.

4.0 GROUNDWATER HYDROGEOLOGY

The Clear Lake Pleistocene Volcanic Area Groundwater Basin is in the southwestern portion of Lake County. Vineyards are the primary crop in this groundwater source area. The key water bearing formation in this area is the Clear Lake Volcanics, which consist of basalt, andesite and other volcanic rocks in a complex sequence. This formation is heavily faulted and fractured and can reach up to 4,000 feet thick. Groundwater occurs in fractures, joints and weathered zones formed from volcanic eruptions. Groundwater availability depends on localized fractures and joints intersected by the well.

Groundwater Wells

Groundwater hydrogeology is highly variable within the groundwater basin and can be best determined by a pump test. As of 2006, there were 537 domestic wells and 59 irrigation wells in the Clear Lake Volcanics Groundwater Source Area. In 2006, the agricultural demand for the Basin included 185 acres of land irrigated with surface water and 2,979 acres irrigated with groundwater. The surface water demand was 820 acre-feet/year, and the groundwater demand was 2,271 acre-feet/year.

According to the well report provided in **Appendix C**, the static water level of the well on APN 009-022-56 was 200 feet bgs when the pump test began and dropped to 350' bgs after 1 hour of pumping at a rate of 500 gallons per minute (gpm). The static water level remained at 350' bgs for the 6-hour pump test and returned to 200' bgs within 24 hours.

According to the well report provided in **Appendix C**, the static water level of the well on APN 009-022-54 was 50 feet bgs when the pump test began and dropped to 51' bgs after 30 minutes of pumping at a rate of 25 gallons per minute (gpm). The static water level remained at 51' bgs for the 8-hour pump test and returned to 50' bgs within 24 hours.

5.0 FINDINGS

The proposed project area has a total of approximately 666.5 acres of land that is located in the Clear Lake Pleistocene Volcanic Area Groundwater Basin. According to the Water Demand and Water Availability Analysis conducted for this property (**Appendix D**), the average annual rainfall for this area is approximately 32 inches, and the total annual rainfall



the properties will receive is approximately 1,777-acre feet. Assuming 10% annual groundwater recharge, these properties will add approximately 178 acre-feet of groundwater annually.

The total average annual water demand was estimated to be approximately 87.1 acre-feet, or approximately 49% of the subject properties' average annual groundwater recharge.

The 2019 SGMA report does not include the Clear Lake Pleistocene Volcanic Area in its analysis. The subject site is located just east of the Big Valley Groundwater basin, which was reported in the 2019 SGMA report as a Medium Priority Groundwater Basin. There is no current data for recharge rates in the Clear Lake Pleistocene Volcanic Area Groundwater Basin.

Section 28.1 of the Lake County, California – Code of Ordinances - Regulation of the Extraction and Exportation of Groundwater from Lake County. Section 1.11 States:

"The County seeks to foster prudent water management practices to avoid significant adverse overdraft-related environmental, social, and economic impacts. It is therefore essential for the protection of the County's important groundwater resources that the County requires a Permit to extract or otherwise capture groundwater for any use outside the County. This chapter requires a Permit for the export and use of groundwater outside the County and is not intended to regulate groundwater in any other way."

Groundwater pumped for irrigation for 8550 Highway 175 will not be used for export out of the County.

6.0 CONCLUSIONS AND RECOMMENDATIONS

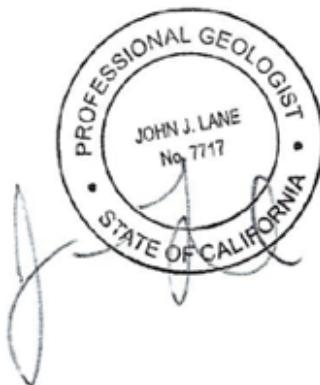
It is Chico Environmental's opinion that the agricultural well on APN 009-022-83 at 7815 S. Highway 29 Kelseyville, CA is within the overlying groundwater rights and of sufficient quantity for seasonal irrigation to support outdoor cannabis cultivation for 32-acre portion of the APNs 009-022-54, 009-022-55, 009-022-56, 011-055-06 and 011-056-01 properties. Additionally, it appears that the overlying property possesses a sufficient quantity of groundwater for seasonal irrigation that would not adversely over draft the Clear Lake Pleistocene Volcanic Area Groundwater Basin, affect downgradient groundwater users or other well users in the vicinity.



7.0 QUALIFICATIONS AND SIGNATURE

I am a Professional Geologist with the State of California. Chico Environmental has performed this assessment under my supervision in accordance with generally accepted environmental practices and procedures, as of the date of this report. I have employed the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental professionals practicing in this area. The conclusions contained within this assessment are based upon site conditions readily observed or were reasonably ascertainable and present at the time of the site inspection.

The conclusions and recommendations stated in this report are based upon personal observations made by employees of Chico Environmental and upon information provided by others. I have no reason to suspect or believe that information provided is inaccurate.



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8.0 REFERENCES

Cardwell, G.T., 1958. Geology and Ground Water in the Santa Rosa and Petaluma Valley Areas, Sonoma County, California. USGS Water Supply Paper 1427.

Cardwell, G.T., 1958. Geology and Ground Water in the Santa Rosa and Petaluma Valley Areas, Sonoma County, California. USGS Water Supply Paper 1427.

Camp Dresser and McKee, In Cooperation with the California Department of Water Resources, Northern District, Lake County Watershed Protection District Lake County Groundwater Management Plan March 31th, 2006.

Jennings, C.W., Strand, R.G., and Rogers, T.H., 1977, Geologic map of California: California Division of Mines and Geology, scale 1:750,000

Monitoring Plan Lake County, California by Lake County Watershed Protection District California Statewide Groundwater Elevation Monitoring System, March 20, 2012.

United States Geological Survey, 2018. Kelseyville Quadrangle, Calif., 1:24,000 Scale Topographic Map.



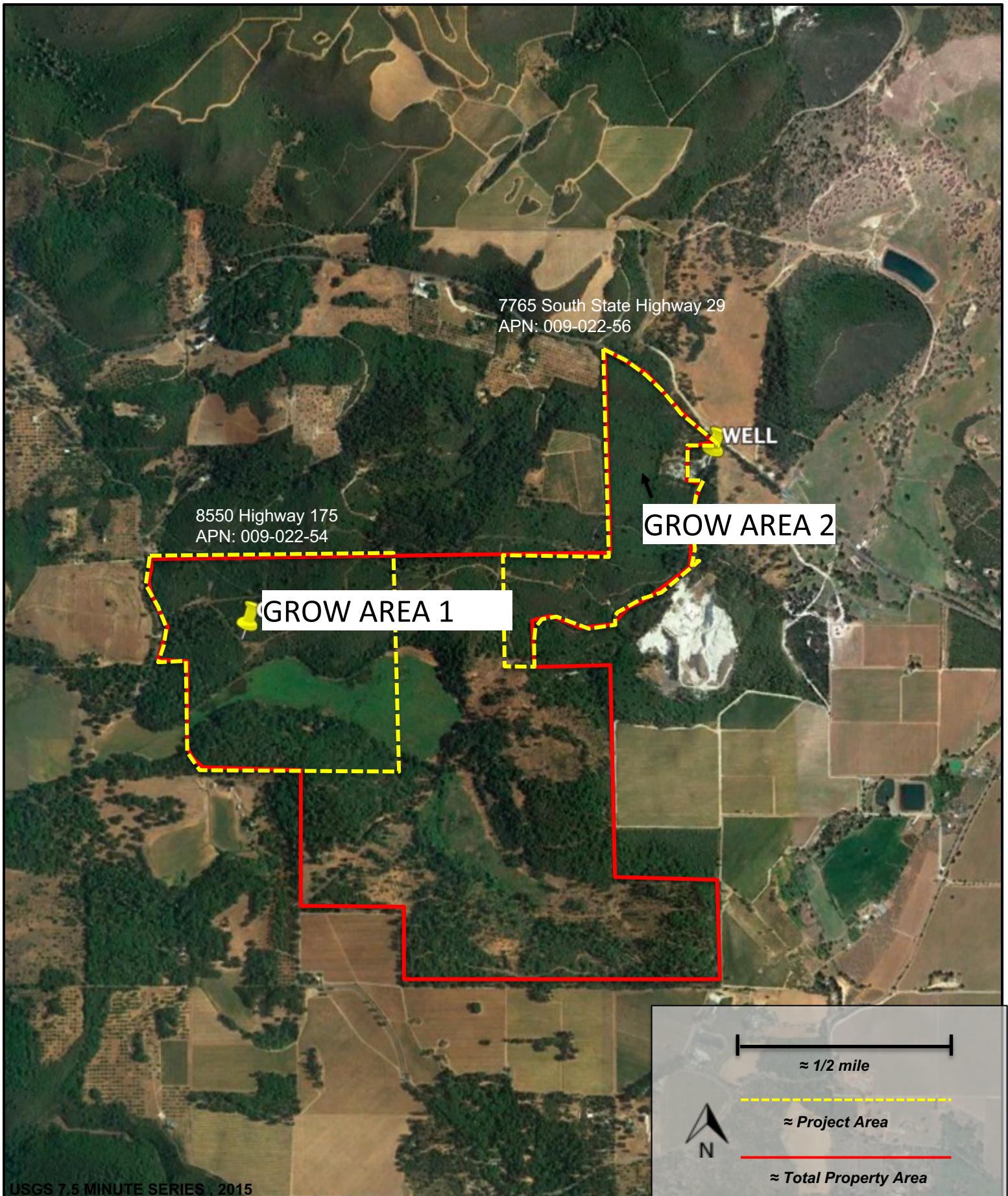
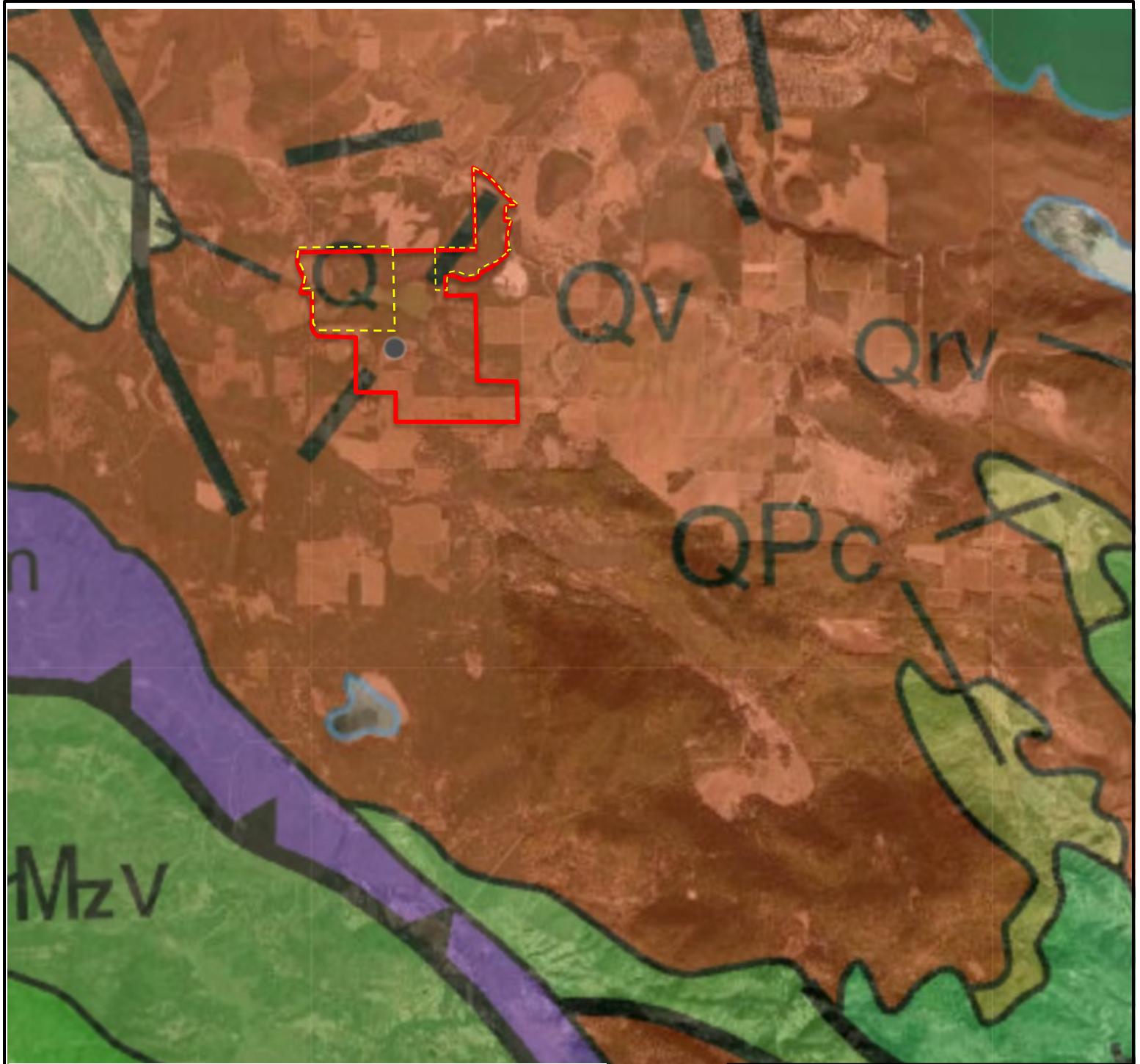


FIGURE 1: GENERAL LOCATION MAP
7765 South State Highway 29 and 8550 Highway 175 Kelseyville, CA
Potter Valley, Mendocino County, California



Qv	Quaternary volcanic flow rocks; minor pyroclastic deposits
Q	Alluvium, lake, playa, and terrace deposits; unconsolidated and semi-consolidated
QPc	Pleistocene and/or Pliocene sandstone, shale, and gravels deposits; mostly loosely consolidated
MzV	Undivided Mesozoic volcanic and metavolcanic rocks. Andesite and rhyolite flow rocks, greenstone, volcanic breccia and other pyroclastic rocks; in part strongly metamorphosed. Includes volcanic rocks of Franciscan Complex: basaltic pillow lava, diabase, greenstone, and minor pyroclastic rocks

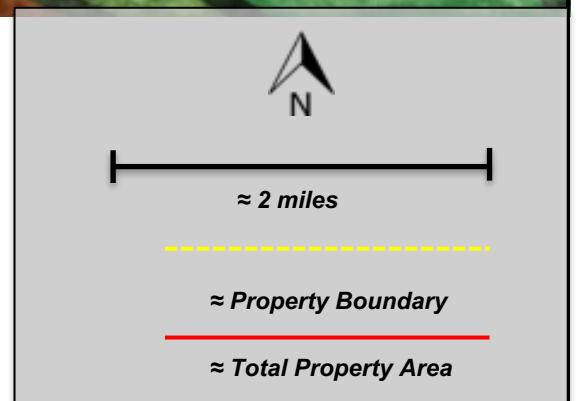


FIGURE 2: SITE GEOLOGY

7765 South State Highway 29 and 8550 Highway 175 Kelseyville, CA
Potter Valley, Mendocino County, California

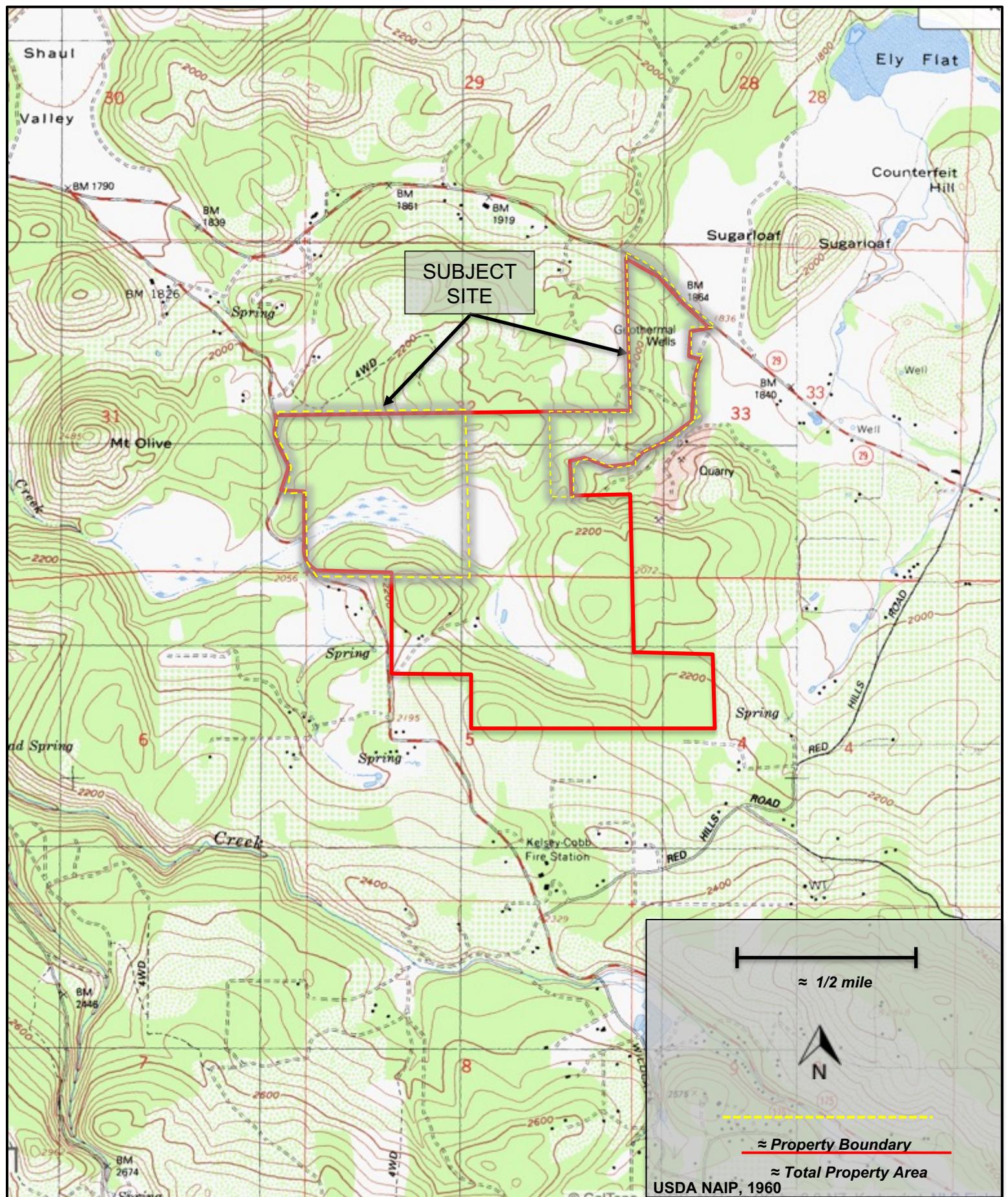
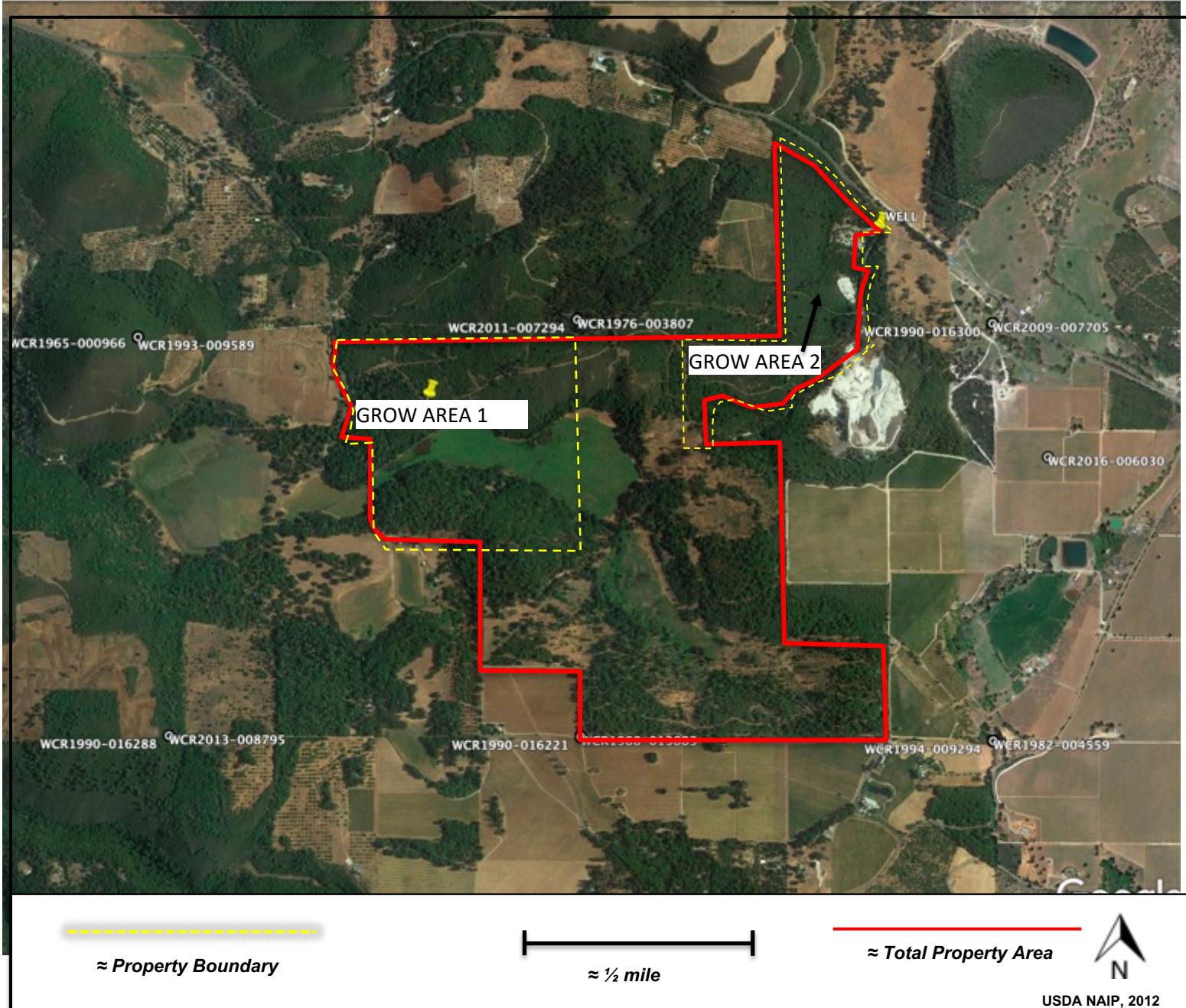


FIGURE 3: TOPOGRAPHIC MAP

7765 South State Highway 29 and 8550 Highway 175 Kelseyville, CA
Potter Valley, Mendocino County, California



	WCR1965-000966	WCR 1993-009589	WCR2011-007294	WCR 1976-003807	WCR1990-016300	WCR 2009-007705	WCR 1990-016288	WCR 1990-016221	WCR 1988-013883	WCR 1994-009294	WCR 1982-004559	WCR 2016-006030
Well depth (ft)	108	660	-	360	240	130	280	230	207	160	308	497
Water depth (ft)	-	-	-	-	-	-	-	-	-	-	-	236

FIGURE 4: WELL MAP

7765 South State Highway 29 and 8550 Highway 175 Kelseyville, CA
Potter Valley, Mendocino County, California

APPENDIX A: SITE PHOTOGRAPHS



**SITE PHOTOGRAPHS – July 29, 2021
8550 Highway 175
Kelseyville, Lake County, CA**



**SITE PHOTOGRAPHS – July 29, 2021
8550 Highway 175
Kelseyville, Lake County, CA**

 **CHICO**
environmental



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 **CHICO**
environmental



SITE PHOTOGRAPHS – July 29, 2021
8550 Highway 175
Kelseyville, Lake County, CA

Appendix B: Well Completion Reports

Well Completion Reports

WCR1997-008504	445209	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Irrigation - Agriculture	MC MULLEN DAN WELL DRILLING	CONV
WCR1996-007748	581370	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	HUTTON J W	CONV
WCR1994-009283	493684	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Irrigation - Agriculture	LARRY HELWEGE LAKE COUNTY DRILLING	CONV
WCR2005-011080	756839	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Public	MC MULLEN DAN WELL DRILLING	CONV
WCR2003-010036	824915	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	HERMAN LARRY DRILLING CO	CONV
WCR2006-008911	1093087	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	HERMAN LARRY DRILLING CO	CONV
WCR1996-009002	205615	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Monitoring	ALL TERRAIN EXPLORATION DRILLING	CONV
WCR1976-003760	11453	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	E. LOVISONE LOVISONE WILDRG VINTAGE WTR SYS CLEAR LK WW D	CONV
WCR1971-001602	12568	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	WEEKS DRILLING AND PUMP CO	CONV
WCR2001-009515	572440	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Irrigation - Agriculture	WATER DEVELOPMENT CORPORATION	CONV
WCR1992-013330	324263	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	COBB MOUNTAIN ENGINEERING	CONV
WCR1995-008341	493679	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	LARRY HELWEGE LAKE COUNTY DRILLING	CONV
WCR2004-009825	824944	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	HERMAN LARRY DRILLING CO	CONV
WCR1973-002299	45215	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	HUMMEL WELL DRILLING	CONV
WCR1947-000691	110	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Other Unknown	CAMPBELL DRILLING	CONV
WCR1954-001380	214	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	MAYS, RAY R	CONV
WCR1968-001011	122272	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Irrigation - Agriculture	HUMMEL WELL DRILLING	CONV
WCR1979-004725	87439	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Monitoring	WEEKS DRILLING AND PUMP CO	CONV
WCR1984-006228	209	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic		
WCR2006-008051	916393	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	WEEKS DRILLING AND PUMP CO	CONV
WCR2008-008920	1074485	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Irrigation - Agriculture	HUTTON J W	CONV
WCR2004-009865	1075330	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Domestic	HERMAN LARRY DRILLING CO	CONV
WCR2010-008388	945283	Lake	Lake County Health Services Department - Environmental Health Division	None	DWR Northern Region Office	WellCompletion/New/Production or Monitoring/NA	Water Supply Irrigation - Agriculture		

Decimal Latitude	Decimal Longitude	Method of Determination LL	LL Accuracy	Township	Range	Section	Baseline Meridian	APN	Date Work Ended	Total Completed Depth	Top Of Perforated Interval	Bottom of Perforated Interval	Casing Diameter	Drilling Method	Fluid	Total Draw Down	Well Yield	Well Yield Unit of Measure	PLSS MTRS	
38.94688953	-122.7902609	Location from PLSS Section	Centroid of Section	13N	08W	30	Mount Diablo	3/31/1976		165				Other not specified	Other not specified				M13N08W30	
38.96022333	-122.8290544	Location from PLSS Section	Centroid of Section	13N	09W	23	Mount Diablo	8/31/1970		60				Other not specified	Other not specified				M13N09W23	
38.93245457	-122.7900481	Location from PLSS Section	Centroid of Section	13N	08W	31	Mount Diablo	3/31/1982		127				Other not specified	Other not specified				M13N08W31	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	2/28/1978		135				Other not specified	Other not specified				M13N09W22	
38.90332462	-122.8595946	Location from PLSS Section	Centroid of Section	12N	08W	12	Mount Diablo	9/30/1988		135				Other not specified	Other not specified				M12N08W12	
38.91835132	-122.7699444	Location from PLSS Section	Centroid of Section	12N	08W	5	Mount Diablo	11-15-14	7/31/1990	105	65	105		Other not specified	Other not specified	20	GPM		M12N08W05	
38.91820566	-122.7512608	Location from PLSS Section	Centroid of Section	12N	08W	4	Mount Diablo	11-56-37	11/30/1990	80	40	80		Other not specified	Other not specified	50	GPM		M12N08W04	
38.88926448	-122.7017479	Location from PLSS Section	Centroid of Section	12N	08W	17	Mount Diablo	11-10-4	4/30/1991	300	260	300		Other not specified	Other not specified	60	GPM		M12N08W17	
38.91717882	-122.8491163	Location from PLSS Section	Centroid of Section	12N	09W	3	Mount Diablo	11-41-14	2/29/1992	45	25	45		Other not specified	Other not specified	5	GPM		M12N09W03	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	7-14-3	5/31/1992	95	65	95		Other not specified	Other not specified	10	GPM		M13N09W22	
38.8890009	-122.7330465	Location from PLSS Section	Centroid of Section	12N	08W	15	Mount Diablo	115-1-19	3/31/1994	140	0	140	4	Other not specified	Other not specified	20	GPM		M12N08W15	
38.90332462	-122.8595946	Location from PLSS Section	Centroid of Section	12N	08W	12	Mount Diablo	11-25	5/31/2000	360	240	360	8	Direct Rotary	Air	500	GPM		M12N08W12	
38.8890009	-122.7330465	Location from PLSS Section	Centroid of Section	12N	08W	15	Mount Diablo	115-1-5	2/10/2005	155	55	155	6	Direct Rotary	Air	18	GPM		M12N08W15	
38.91836282	-122.7886369	Location from PLSS Section	Centroid of Section	12N	08W	6	Mount Diablo	011-055-101	9/30/2013	214	174	214	5	Direct Rotary	Bentonite	50	GPM		M12N08W06	
38.88866867	-122.745724	Location from PLSS Section	Centroid of Section	12N	08W	14	Mount Diablo	115-3-30	7/19/1989	180	80	180	6	Direct Rotary	Air	140	2	GPM		M12N08W14
38.94539723	-122.8106642	Location from PLSS Section	Centroid of Section	13N	09W	25	Mount Diablo	6/30/1993		60	48	58		Other not specified	Other not specified				M13N09W25	
38.91820566	-122.7512608	Location from PLSS Section	Centroid of Section	12N	08W	4	Mount Diablo	13-33-18	10/11/2002	80	40	80	6	Direct Rotary	Air	60	GPM		M12N08W04	
38.93245457	-122.7900481	Location from PLSS Section	Centroid of Section	13N	08W	31	Mount Diablo	9-22-43	4/12/2004	205	160	220	6	Direct Rotary	Air	12	GPM		M13N08W31	
38.91758594	-122.8076358	Location from PLSS Section	Centroid of Section	12N	09W	1	Mount Diablo	011-004-015	6/4/2007	0				Other not specified	Other not specified				M12N09W01	
38.96022333	-122.8290544	Location from PLSS Section	Centroid of Section	13N	09W	23	Mount Diablo	12/31/1913		90				Other not specified	Other not specified				M13N09W23	
38.91792877	-122.8595369	Location from PLSS Section	Centroid of Section	12N	08W	1	Mount Diablo	5/31/1960		150				Other not specified	Other not specified				M12N08W01	
38.91758594	-122.8076358	Location from PLSS Section	Centroid of Section	12N	09W	1	Mount Diablo	011-004-009	11/13/2007	427	407	427	4	Direct Rotary	Air				M12N09W01	
38.94602892	-122.8480704	Location from PLSS Section	Centroid of Section	13N	09W	27	Mount Diablo	9/30/1971		60				Other not specified	Other not specified				M13N09W27	
38.91820566	-122.7512608	Location from PLSS Section	Centroid of Section	12N	08W	4	Mount Diablo	12/31/1976		500				Other not specified	Other not specified				M12N08W04	
38.96022333	-122.8290544	Location from PLSS Section	Centroid of Section	13N	09W	23	Mount Diablo	5/31/1979		406				Other not specified	Other not specified				M13N09W23	
38.88926448	-122.7017479	Location from PLSS Section	Centroid of Section	12N	08W	17	Mount Diablo	6/30/1979		122				Other not specified	Other not specified				M12N08W17	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	8/31/1975		85				Other not specified	Other not specified				M13N09W22	
38.94539723	-122.8106642	Location from PLSS Section	Centroid of Section	13N	09W	25	Mount Diablo	1/9/1983		70	54	64	4	Other not specified	Other not specified				M13N09W25	
38.90378934	-122.7886358	Location from PLSS Section	Centroid of Section	12N	08W	7	Mount Diablo	11-57-18	5/21/1990	100	54	100		Other not specified	Other not specified	34	25	GPM		M12N08W07
38.91758594	-122.8076358	Location from PLSS Section	Centroid of Section	12N	09W	1	Mount Diablo	114-90-2	1/31/1991	157	117	157		Other not specified	Other not specified	72	30	GPM		M12N09W01
38.91758594	-122.8076358	Location from PLSS Section	Centroid of Section	12N	09W	1	Mount Diablo	11-4-15	3/31/1992	220	180	220		Other not specified	Other not specified	0	15	GPM		M12N09W01
38.88866867	-122.745724	Location from PLSS Section	Centroid of Section	12N	08W	14	Mount Diablo	115-3-29	5/31/1993	140	60	140	6	Cable Tool		20	GPM		M12N08W14	
38.94539723	-122.8106642	Location from PLSS Section	Centroid of Section	13N	09W	25	Mount Diablo	6/30/1993		35	15	25		Other not specified	Other not specified				M13N09W25	
38.91802639	-122.7326325	Location from PLSS Section	Centroid of Section	12N	08W	3	Mount Diablo	11-6-69	5/10/1998	625				Direct Rotary	Air	625	200	GPM		M12N08W03
38.93151674	-122.8106249	Location from PLSS Section	Centroid of Section	13N	09W	36	Mount Diablo	7-41-4	10/4/1998	146	101	141	8	Direct Rotary	Bentonite				M13N09W36	
38.93245457	-122.7900481	Location from PLSS Section	Centroid of Section	13N	08W	31	Mount Diablo	009-022-430	8/30/2009	0				Other not specified	Other not specified				M13N08W31	
38.9326621	-122.7324554	Location from PLSS Section	Centroid of Section	13N	08W	34	Mount Diablo	009-006-390	6/3/2014	550	388	548	5	Direct Rotary	Air	190	90	GPM		M13N08W34
38.9326621	-122.7324554	Location from PLSS Section	Centroid of Section	13N	08W	34	Mount Diablo	4/30/1967		246				Other not specified	Other not specified				M13N08W34	
38.94657836	-122.8294002	Location from PLSS Section	Centroid of Section	13N	09W	26	Mount Diablo	8/31/1966		40				Other not specified	Other not specified				M13N09W26	
38.94539723	-122.8106642	Location from PLSS Section	Centroid of Section	13N	09W	26	Mount Diablo	4/30/1989		137				Other not specified	Other not specified				M13N09W19	
38.90378934	-122.7886358	Location from PLSS Section	Centroid of Section	12N	08W	25	Mount Diablo	7-30-44	10/31/1991	100	60	100		Other not specified	Other not specified	10	30	GPM		M13N09W25
38.90376328	-122.7699821	Location from PLSS Section																		

38.94602892	-122.8480704	Location from PLSS Section	Centroid of Section	13N	09W	27	Mount Diablo		1/31/1971		135					Other not specified	Other not specified			M13N09W27	
38.94688853	-122.902609	Location from PLSS Section	Centroid of Section	13N	08W	30	Mount Diablo	9-22-65	8/31/1991	400	380	401			Other not specified	Other not specified	0	20 GPM	M13N09W30		
38.90378934	-122.7885696	Location from PLSS Section	Centroid of Section	12N	08W	7	Mount Diablo	011-057-XX	4/9/2015	598	538	598	8	Direct Rotary	Air			100 GPM	M12N08W07		
38.8884771	-122.8961929	Location from PLSS Section	Centroid of Section	12N	08W	13	Mount Diablo	115-006-012	11/19/2006	400	280	380	4	Direct Rotary	Air			5 GPM	M12N08W13		
38.94539723	-122.8106642	Location from PLSS Section	Centroid of Section	13N	09W	25	Mount Diablo	007-030-460	7/11/2013	130	70	130	5	Direct Rotary	Bentonite			60	30 GPM	M13N09W25	
38.94539723	-122.8106642	Location from PLSS Section	Centroid of Section	13N	09W	25	Mount Diablo		7/31/1972	196			Other not specified	Other not specified					M13N09W25		
38.90353652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo		3/31/1977	90			Other not specified	Other not specified					M12N08W09		
38.9157773	-122.8487171	Location from PLSS Section	Centroid of Section	13N	09W	34	Mount Diablo	007-038-008	12/13/2005	220	180	220	4	Direct Rotary	Bentonite			100 GPM	M13N09W34		
38.88857288	-122.7887176	Location from PLSS Section	Centroid of Section	12N	08W	18	Mount Diablo	11-10-47	2/4/2001	322	180	320	6	Auger				292	11 GPM	M12N08W18	
38.90353652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	11-17-17	8/30/1999	20			6	Cable Tool					10 GPM	M12N08W09	
38.8884771	-122.8961929	Location from PLSS Section	Centroid of Section	12N	08W	13	Mount Diablo	115-004-007	11/30/2011	342	262	342	4	Direct Rotary	Air				26 GPM	M12N08W13	
38.91787998	-122.6777103	Location from PLSS Section	Centroid of Section	12N	07W	6	Mount Diablo		3/31/1978	105			Other not specified	Other not specified					M12N07W06		
38.88957288	-122.7887176	Location from PLSS Section	Centroid of Section	12N	08W	18	Mount Diablo		2/28/1970	156			Other not specified	Other not specified					M12N08W18		
38.8884771	-122.8951929	Location from PLSS Section	Centroid of Section	12N	08W	13	Mount Diablo	115-7-8	10/27/1994	140	100	140	4	Direct Rotary	Air				100 GPM	M12N08W13	
38.90340391	-122.7326031	Location from PLSS Section	Centroid of Section	12N	08W	10	Mount Diablo	011-009-051	2/10/2003	420			6	Direct Rotary	Bentonite				300 GPM	M12N08W10	
38.94567836	-122.8294002	Location from PLSS Section	Centroid of Section	13N	09W	26	Mount Diablo		12/31/1976	80			Other not specified	Other not specified					M13N09W26		
38.90340391	-122.7326031	Location from PLSS Section	Centroid of Section	12N	08W	10	Mount Diablo	11-9-51	10/31/1990	330	290	330	18	Other not specified	Other not specified				18 GPM	M12N08W10	
38.88890009	-122.7330465	Location from PLSS Section	Centroid of Section	12N	08W	15	Mount Diablo	50-11-43	6/26/1998	70	50	70	4	Direct Rotary	Air				50 GPM	M12N08W15	
38.91758594	-122.8076358	Location from PLSS Section	Centroid of Section	12N	09W	1	Mount Diablo	114-90-6	3/31/1992	305	285	305	25	Other not specified	Other not specified				25 GPM	M12N09W01	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	007-014-340	5/24/2012	144	64	144	8	Cable tool					33	38 GPM	M13N09W22
38.9326621	-122.7326454	Location from PLSS Section	Centroid of Section	13N	09W	34	Mount Diablo		8/15/2011	48			2	Auger					M13N09W34		
38.94688893	-122.7902609	Location from PLSS Section	Centroid of Section	13N	08W	30	Mount Diablo	009-022-020	10/26/2007	380	280	380	5	Direct Rotary	Air				380	10 GPM	M13N09W30
38.91820566	-122.7512608	Location from PLSS Section	Centroid of Section	12N	08W	4	Mount Diablo		1/31/1977	120			Other not specified	Other not specified					M12N08W04		
38.93245457	-122.7900481	Location from PLSS Section	Centroid of Section	13N	08W	31	Mount Diablo		7/31/1983	187			Other not specified	Other not specified					M13N09W31		
38.90336611	-122.7141139	Location from PLSS Section	Centroid of Section	12N	08W	11	Mount Diablo	11-9-81	10/29/2002	500	300	500	6	Direct Rotary	Air				50 GPM	M12N08W11	
38.91758594	-122.8076358	Location from PLSS Section	Centroid of Section	12N	09W	1	Mount Diablo	114-90-5	3/31/1992	245	225	245	4	Other not specified	Other not specified				40 GPM	M12N09W01	
38.90376328	-122.7699821	Location from PLSS Section	Centroid of Section	12N	08W	8	Mount Diablo	11-16-12	12/17/2004	460	80	460	6	Direct Rotary	Air				30 GPM	M12N08W08	
38.94716001	-122.7133996	Location from PLSS Section	Centroid of Section	13N	08W	26	Mount Diablo	43-503-2	9/30/1994										M13N09W26		
38.9201371	-122.7100952			12N	08W	2	Mount Diablo		CT ROW (near 4/5/2021)				Direct Rotary	Bentonite					M12N08W02		
38.88977	-122.747779			12N	08W	9	Mount Diablo	011-060-01	2/3/2021	134			Cable Tool	Water					100 GPM	M12N08W09	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	7-13-22	4/30/1992										M13N09W22		
38.94602892	-122.8480704	Location from PLSS Section	Centroid of Section	13N	09W	27	Mount Diablo		4/30/1980	116			Other not specified	Other not specified					M13N09W27		
38.90353652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	11-43-9	7/31/1992	200	140	200	4	Direct Rotary	Air				170	200 GPM	M12N08W09
38.94602892	-122.8480704	Location from PLSS Section	Centroid of Section	13N	09W	27	Mount Diablo	007-026-019	3/17/2008	100	60	100	4	Direct Rotary	Air				6 GPM	M13N09W27	
38.9315773	-122.8487171	Location from PLSS Section	Centroid of Section	13N	09W	34	Mount Diablo	7-37-10	10/22/2003	200	100	200	6	Direct Rotary	Air				500 GPM	M13N09W34	
38.90353652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	011-042-011	8/3/2005	112	92	112	4	Direct Rotary	Air				50 GPM	M12N08W09	
38.88926448	-122.7701479	Location from PLSS Section	Centroid of Section	12N	08W	17	Mount Diablo	11-20-37	11/16/1998	154	140	154	4	Direct Rotary	Air				15 GPM	M12N08W17	
38.9326621	-122.8243454	Location from PLSS Section	Centroid of Section	13N	08W	34	Mount Diablo		8/15/2011	65	60	65	2	Other not specified	Other not specified				M13N09W34		
38.96190642	-122.7134863	Location from PLSS Section	Centroid of Section	13N	08W	22	Mount Diablo		1/31/1968	42			Other not specified	Other not specified					M13N09W22		
38.90353652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	11-43-9	4/30/1978	110			Other not specified	Other not specified					M12N08W09		
38.90353652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	11-42-22	8/17/1994	160	120	160	4	Direct Rotary	Air				60 GPM	M12N08W04	
38.90332462	-122.7326454	Location from PLSS Section	Centroid of Section	13N	08W</																

38.90340391	-122.7328031	Location from PLSS Section	Centroid of Section	12N	08W	10	Mount Diablo	011-069-410	10/29/2014	530	430	530	5	Direct Rotary	Bentonite		504	50	GPM	M12N08W10
38.90535652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	11-17-29	8/6/1979	120	80	120	6	Direct Rotary	Air		105	20	GPM	M12N08W09
38.93307139	-122.7701296	Location from PLSS Section	Centroid of Section	13N	08W	32	Mount Diablo		6/30/1959	205			Other not specified	Other not specified						M13N08W32
38.96181659	-122.7131789	Location from PLSS Section	Centroid of Section	13N	08W	23	Mount Diablo	1/31/1978	50			Other not specified	Other not specified						M13N08W23	
38.94567836	-122.8294002	Location from PLSS Section	Centroid of Section	13N	09W	26	Mount Diablo	7-27-33	11/30/1988	320	260	320	5	Other not specified	Other not specified		30	GPM	M13N09W26	
38.95991011	-122.8106473	Location from PLSS Section	Centroid of Section	13N	09W	24	Mount Diablo	7-17-2	1/28/1999	340	300	340	4	Direct Rotary	Air		30	GPM	M13N09W24	
38.90353652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	11-42-25	12/29/1998	117	77	117	5	Direct Rotary	Air		100	GPM	M12N08W09	
38.9473755	-122.7320002	Location from PLSS Section	Centroid of Section	13N	08W	27	Mount Diablo	009-006-620	4/14/2015	542	282	542	8	Direct Rotary	Air		700	GPM	M13N08W27	
38.94567836	-122.8294002	Location from PLSS Section	Centroid of Section	13N	09W	26	Mount Diablo	8/31/1984	133			Other not specified	Other not specified						M13N09W26	
38.93259069	-122.7138114	Location from PLSS Section	Centroid of Section	13N	08W	35	Mount Diablo	9-6-38	5/17/1979	300	260	300	5	Direct Rotary	Air		280	50	GPM	M13N08W35
38.94567836	-122.8294002	Location from PLSS Section	Centroid of Section	13N	09W	26	Mount Diablo	10/31/1996	102			Other not specified	Other not specified						M13N09W26	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	3/31/1963	65			Other not specified	Other not specified						M13N09W22	
38.93307139	-122.701296	Location from PLSS Section	Centroid of Section	13N	08W	32	Mount Diablo	8/31/1976	504			Other not specified	Other not specified						M13N08W32	
38.90376328	-122.7699821	Location from PLSS Section	Centroid of Section	12N	08W	8	Mount Diablo	11-58-17	7/27/1998	190	150	190	6	Direct Rotary	Air		15	GPM	M12N08W08	
38.90340391	-122.7328031	Location from PLSS Section	Centroid of Section	12N	08W	10	Mount Diablo	11-9-59	6/11/1998	266	240	266	4	Direct Rotary	Air		100	GPM	M12N08W10	
38.90535652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	11-43-6	10/16/1997	236	180	236	4	Direct Rotary	Air		18	GPM	M12N08W08	
38.91835132	-122.7699844	Location from PLSS Section	Centroid of Section	12N	08W	5	Mount Diablo	11-15-5	8/30/1989	203			Other not specified	Other not specified						M12N08W05
38.94567836	-122.8294002	Location from PLSS Section	Centroid of Section	13N	09W	26	Mount Diablo	8/31/1980	140			Other not specified	Other not specified						M13N09W26	
38.88957288	-122.7887116	Location from PLSS Section	Centroid of Section	12N	08W	18	Mount Diablo	11-10-92	10/18/2001	164	144	164	6	Direct Rotary	Air		50	GPM	M12N08W18	
38.9326621	-122.7324554	Location from PLSS Section	Centroid of Section	13N	08W	34	Mount Diablo	9-6-48	4/7/2002	198	118	198	6	Direct Rotary	Air		198	400	GPM	M13N09W34
38.9068636	-122.795644	Location from PLSS Section	Centroid of Section	12N	08W	7	Mount Diablo	011-057-161	11/17/2014	800	40	800	5	Direct Rotary	Air				M12N08W07	
38.8889009	-122.7330465	Location from PLSS Section	Centroid of Section	12N	08W	15	Mount Diablo	110-001-100	11/3/2014	177	117	177	5	Direct Rotary	Bentonite		168	61	GPM	M12N08W15
38.96022333	-122.8294002	Location from PLSS Section	Centroid of Section	13N	09W	23	Mount Diablo	6/30/1974	40			Other not specified	Other not specified						M13N09W23	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	2/29/1964	96			Other not specified	Other not specified						M13N09W22	
38.9605659	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	3/31/1981	70			Other not specified	Other not specified						M12N08W09	
38.88957288	-122.7887116	Location from PLSS Section	Centroid of Section	12N	08W	18	Mount Diablo	11-10-75	1/31/1983	130	90	130	4	Direct Rotary	Air		40	25	GPM	M12N08W18
38.94539723	-122.8106642	Location from PLSS Section	Centroid of Section	13N	09W	25	Mount Diablo	8/26/1986	35	23	34	4	Auger						M13N09W25	
38.94567836	-122.8294002	Location from PLSS Section	Centroid of Section	13N	09W	26	Mount Diablo	8/31/1987	163	125	160	4	Other not specified	Other not specified		8	15	GPM	M13N09W26	
38.899409	-122.7567071	Derived from Address	>50 FT	12N	08W	9	Mount Diablo	011-044-040	10/22/2015	117	97	117	4	Direct Rotary	Air		80	GPM	M12N08W09	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	11/30/1966	162			Other not specified	Other not specified						M13N09W22	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	5/31/1968	44			Other not specified	Other not specified						M13N09W22	
38.93245457	-122.7904081	Location from PLSS Section	Centroid of Section	13N	09W	31	Mount Diablo	6/30/1958	108			Other not specified	Other not specified						M13N08W31	
38.88957288	-122.7887116	Location from PLSS Section	Centroid of Section	12N	08W	17	Mount Diablo	11-19-21	5/15/1986	285	225	285	4	Other not specified	Other not specified		118	40	GPM	M12N08W17
38.94716001	-122.713396	Location from PLSS Section	Centroid of Section	13N	08W	26	Mount Diablo	10/31/1987	183			Other not specified	Other not specified						M13N09W26	
38.91835132	-122.7699844	Location from PLSS Section	Centroid of Section	12N	08W	5	Mount Diablo	011-056-260	7/26/2010	530	510	530	4	Direct Rotary	Bentonite		100	GPM	M12N08W05	
38.94567836	-122.8294002	Location from PLSS Section	Centroid of Section	13N	09W	26	Mount Diablo	4/30/1969	98			Other not specified	Other not specified						M13N09W26	
38.8889009	-122.7330465	Location from PLSS Section	Centroid of Section	12N	08W	15	Mount Diablo	4/30/1981	85	30	80	6	Cable Tool						M12N08W15	
38.96190642	-122.7314863	Location from PLSS Section	Centroid of Section	13N	08W	22	Mount Diablo	9-16-4	7/31/1994	690	670	690	4	Direct Rotary	Air					M13N09W22
38.90535652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	11-42-24	3/31/1990	100	80	100	5	Other not specified	Other not specified					M12N08W09
38.91820566	-122.7512608	Location from PLSS Section	Centroid of Section	12N	08W	4	Mount Diablo	11-56-34	11/6/1992	335	20		4	Direct Rotary	Air					M12N08W04
38.90332462	-122.8695946	Location from PLSS Section	Centroid of Section	12N	08W	12	Mount Diablo	011-009-960	4/20/2006	500	480	500	4	Other not specified	Other not specified					M12N08W12
38.9030332	-122.6959569	Location from PLSS Section	Centroid of Section	12N	08W	12	Mount Diablo	011-069-510	2/											

38.91758594	-122.8076358	Location from PLSS Section	Centroid of Section	12N	09W	1	Mount Diablo	011-004-043	8/4/2005	141	85	141	5	Direct Rotary	Air		140	40	GPM	M12N09W01
38.90535652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	11-42-23	8/18/1985	110	70	110	5	Direct Rotary	Air		100	75	GPM	M12N08W09
38.88890009	-122.7330465	Location from PLSS Section	Centroid of Section	12N	08W	15	Mount Diablo	115-3-47	6/30/1994	120	70	120	4	Direct Rotary	Air		20	GPM	M12N08W15	
38.9402892	-122.8480704	Location from PLSS Section	Centroid of Section	13N	09W	27	Mount Diablo	7-25-52	7/31/2000	217	140	220	12	Direct Rotary	Air					M13N09W27
38.90340391	-122.3283031	Location from PLSS Section	Centroid of Section	12N	08W	10	Mount Diablo	011-069-400	5/19/2014	502	400	500	4	Direct Rotary	Air		10	GPM	M12N08W10	
38.88886867	-122.1457274	Location from PLSS Section	Centroid of Section	12N	08W	14	Mount Diablo	115-003-380	10/9/2014	435	315	435	5	Direct Rotary	Air		420	75	GPM	M12N08W14
38.91820566	-122.7512608	Location from PLSS Section	Centroid of Section	12N	08W	4	Mount Diablo	7/31/1980		607			Other not specified	Other not specified					M12N08W04	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	17-3-14	9/21/1977	41	21	41	8	Other not specified	Other not specified		10	GPM	M13N09W22	
38.94539723	-122.8106642	Location from PLSS Section	Centroid of Section	13N	09W	25	Mount Diablo	1/31/1987		132			Other not specified	Other not specified					M13N09W25	
38.88926448	-122.7701479	Location from PLSS Section	Centroid of Section	12N	08W	17	Mount Diablo	115-18-10	2/28/1991	225	185	225	Other not specified	Other not specified		30	GPM	M12N08W17		
38.91791183	-122.7138661	Location from PLSS Section	Centroid of Section	12N	08W	2	Mount Diablo	11-9-17	6/30/1992	242			Other not specified	Other not specified		157	80	GPM	M12N08W02	
38.91835132	-122.6996844	Location from PLSS Section	Centroid of Section	12N	08W	5	Mount Diablo	011-015-070	4/3/2005	160	40	160	5	Reverse Circulation	Bentonite		160	10	GPM	M12N08W17
38.888926	-122.77015	Location from PLSS Section	Centroid of Section	12N	08W	17	Mount Diablo	115-018-130	11/18/2015	360	320	360	8.625	Other Air Drilling			360	30	GPM	M12N08W17
38.93245457	-122.7900481	Location from PLSS Section	Centroid of Section	13N	09W	31	Mount Diablo	9/30/1958		216			Other not specified	Other not specified					M13N09W31	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	11/30/1981		95			Other not specified	Other not specified					M13N09W22	
38.94539723	-122.8106642	Location from PLSS Section	Centroid of Section	13N	09W	25	Mount Diablo	7/31/1986		35			Other not specified	Other not specified					M13N09W25	
38.90535659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	3/31/1950		56			Other not specified	Other not specified					M13N09W22	
38.9402892	-122.8480704	Location from PLSS Section	Centroid of Section	13N	09W	27	Mount Diablo	12/31/1974		110			Other not specified	Other not specified					M13N09W27	
38.90535652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	11-60-5	8/31/1991	191	140	185	Other not specified	Other not specified		58	50	GPM	M12N08W05	
38.94539723	-122.8106642	Location from PLSS Section	Centroid of Section	13N	09W	25	Mount Diablo	2/29/1988		101			Other not specified	Other not specified					M13N09W25	
38.90336611	-122.7141139	Location from PLSS Section	Centroid of Section	12N	08W	11	Mount Diablo	11-9-36	10/19/2003	160	80	160	12	Downhole Hammer	Air		43	1490	GPM	M12N08W11
38.88890009	-122.7330465	Location from PLSS Section	Centroid of Section	12N	08W	15	Mount Diablo	15-003-420	8/10/2014	220	120	220	5	Direct Rotary	Bentonite			25	GPM	M12N08W15
38.90576328	-122.6996844	Location from PLSS Section	Centroid of Section	12N	08W	8	Mount Diablo	011-016-091	4/22/2010	560	460	560	4	Direct Rotary	Air		50	GPM	M12N08W08	
38.900295	-122.7333373	Derived from Address	>50 FT	12N	08W	10	Mount Diablo	011-069-39	8/9/2016	990	800	990	9.875	Direct Rotary	Air		10	GPM	M12N08W10	
38.93157773	-122.8487171	Location from PLSS Section	Centroid of Section	13N	09W	34	Mount Diablo	007-038-008	11/28/2005	220	160	220	6	Direct Rotary	Bentonite		120	GPM	M13N09W34	
38.93157773	-122.8487171	Location from PLSS Section	Centroid of Section	13N	09W	34	Mount Diablo	8/31/1953		100			Other not specified	Other not specified					M13N09W34	
38.94567836	-122.8294002	Location from PLSS Section	Centroid of Section	13N	09W	26	Mount Diablo	3/31/1966		215			Other not specified	Other not specified					M13N09W26	
38.90535652	-122.7513198	Location from PLSS Section	Centroid of Section	12N	08W	9	Mount Diablo	4/30/1983		115			Other not specified	Other not specified					M12N08W05	
38.96022333	-122.8290544	Location from PLSS Section	Centroid of Section	13N	09W	23	Mount Diablo	11/30/1977		90			Other not specified	Other not specified					M13N09W23	
38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	7/31/1980		110			Other not specified	Other not specified					M13N09W22	
38.94688953	-122.7902609	Location from PLSS Section	Centroid of Section	13N	09W	30	Mount Diablo	1/31/1987		305			Other not specified	Other not specified					M13N09W30	
38.88890009	-122.7330465	Location from PLSS Section	Centroid of Section	12N	08W	15	Mount Diablo	115-3-37	8/31/1979	65			Other not specified	Other not specified					M12N08W15	
38.88826448	-122.701479	Location from PLSS Section	Centroid of Section	12N	08W	17	Mount Diablo	10/31/1985		160			Other not specified	Other not specified					M12N08W17	
38.9056559	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	11/30/1964		220			Other not specified	Other not specified					M13N09W22	
38.90378934	-122.7885696	Location from PLSS Section	Centroid of Section	12N	08W	7	Mount Diablo	011-057-27	3/19/2015	540	472	532	5	Direct Rotary	Air		100	GPM	M12N08W07	
38.90336611	-122.7141139	Location from PLSS Section	Centroid of Section	12N	08W	11	Mount Diablo	011-009-083	4/17/2006	490	270	490	4	Direct Rotary	Air		70	GPM	M12N08W11	
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38.9605659	-122.8478015	Location from PLSS Section	Centroid of Section	13N	09W	22	Mount Diablo	5/31/1980		40			Other not specified	Other not specified					M13N09W22	
38.88886867	-122.1457274	Location from PLSS Section	Centroid of Section	12N	08W	14	Mount Diablo	115-3-30	12/21/1990	200	80	200	4	Direct Rotary	Air		12	GPM	M12N08W14	
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38.94602892	-122.8480704	Location from PLSS Section	Centroid of Section	13N	09W	27	Mount Diablo	11/30/1977		61			Other not specified	Other not specified					M13N09W27	
38.88886867	-122.1457274	Location from PLSS Section	Centroid of Section	12N	08W	14	Mount Diablo	115-3-29	2/28/1993			6								

38.93293365	-122.7512908	Location from PLSS Section	Centroid of Section	13N	08W	33	Mount Diablo	9-21-1	2/26/1997		158	98	158	4	Direct Rotary	Air		40	GPM	M13N08W33		
38.96022333	-122.8290544	Location from PLSS Section	Centroid of Section	13N	09W	23	Mount Diablo	9-16-49	6/5/1986		114	108	113	8	Cable Tool			1	60	GPM	M13N09W23	
38.90332462	-122.8956946	Location from PLSS Section	Centroid of Section	12N	08W	12	Mount Diablo	11-9-26	12/23/1994		263	215	235	6	Direct Rotary	Air		240	18	GPM	M12N08W12	
38.96216522	-122.7495539	Location from PLSS Section	Centroid of Section	13N	08W	21	Mount Diablo	009-003-032	9/28/2005		640	630	640	4	Other not specified	Other not specified		40	GPM	M13N08W21		
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38.93157773	-122.8487171	Location from PLSS Section	Centroid of Section	13N	09W	34	Mount Diablo	007-037-009	7/17/2006		260	140	260	4	Direct Rotary	Air		60	GPM	M13N09W34		
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38.91802639	-122.7326325	Location from PLSS Section	Centroid of Section	12N	08W	3	Mount Diablo	11-9-37	5/30/2001		470	270	470	12	Downhole Hammer	Air		160	700	GPM	M12N08W03	
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38.91717882	-122.8491631	Location from PLSS Section	Centroid of Section	12N	09W	3	Mount Diablo	011-014-015	10/7/2008		42	20	42	5	Cable Tool			14	7	GPM	M12N09W03	
38.9326621	-122.7324554	Location from PLSS Section	Centroid of Section	13N	08W	34	Mount Diablo	144-141-4	10/14/2004		360	200	360	6	Direct Rotary	Air			25	GPM		M13N09W34
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*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

Page 1 of 1

Owner's Well Number 1

Date Work Began 6-6-18

Date Work Ended 6-13-18

Local Permit Agency Lake County Environmental Health

Permit Number WE-5031 Permit Date 5-16-18

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. 0000000

DWR Use Only - Do Not Fill In

State Well Number/Site Number

N W

Latitude 38° 15' 00" Longitude 122° 45' 00"

APN/TRS/Other

Geologic Log

Orientation Vertical Horizontal Angle Specify _____

Drilling Method Air Rotory/Mud Rotory Drilling Fluid Bentonite

Depth from Surface
Feet to Feet

Description

Describe material, grain size, color, etc.

0	20	Brown clay
20	35	Red/Black Cinders
35	40	Multi color volcanics/cinders
40	60	Burgandy/Yellow/Purple
60	140	Black/Grey volcanics

Total Depth of Boring 140 Feet

Total Depth of Completed Well 130 Feet

Well Owner

Name Thomas Porter

Mailing Address 777 Aldridge Rd.

City Vacaville

State CA Zip 95088

Well Location

Address 8500 Hwy 175

City Kelseyville

County Lake

Latitude 38° 15' 00" N Longitude 122° 45' 00"

Datum Dec. Lat. Dec. Long. Dec. Long.

APN Book Page Parcel 011-056-01

Township Range Section Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



Activity

- New Well
- Modification/Repair
- Deepen
- Other _____
- Destroy

Describe procedures and materials under "GEOLOGIC LOG".

Planned Uses

- Water Supply
 - Domestic
 - Public
 - Irrigation
 - Industrial
- Cathodic Protection
- Dewatering
- Heat Exchange
- Injection
- Monitoring
- Remediation
- Sparging
- Test Well
- Vapor Extraction
- Other _____

Water Level and Yield of Completed Well

Depth to first water 60 (Feet below surface)

Depth to Static Water Level 50 (Feet) Date Measured 6-11-18

Estimated Yield 90 (GPM) Test Type Air Lift

Test Length 3 hrs. (Hours) Total Drawdown 0 (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)	Depth from Surface Feet to Feet	Fill	Description
0	12 1/4	Steel	Steel	.188	8"	Blank		0	Concrete	Sea
90	12 1/4	Steel	Steel	.188	8"	Perf	.080	1	Bentonite	Sea
"								20	51G Pea	Gravel Pack
								130		

Attachments

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other _____

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Will Peterson Well Drilling

Person, Firm or Corporation

4789 Cascades Way

Address

Kelseyville

CA

95451

State

Zip

Signed

Will Peterson

C-57 Licensed Water Well Contractor

6-12-18

Date Signed

1009053

C-57 License Number

Appendix C: Well Log

WILL PETERSON WELL DRILLING

Bryant Stocking
8550 Hwy 175
Kelseyville. CA 95451

5/18/2020

To whom this may concern,

The static water level was 50' below surface before test began. The static level dropped to 51' for a drawn down of 1' after 30 minutes @ 25 GPM.

We pumped 25 GPM for 8 hours. During the test the static never went below 51' below the surface. Once the pump was stopped the well recharged the static to 50' below surface in 1 minute.

The static was rechecked 24 hours from the end of the test and static level was at 50' below surface.

Feel free to call us with any questions at (707) 277-0103 or (707) 272-1121.

Sincerely,

Will Peterson Well Drilling
Lic#1009053



PO Box 695
Kelseyville, CA
95451

PHONE (707) 277-0103
FAX (707) 277-0103
EMAIL William.peterson707@yahoo.com
WEBSITE www.willpetersonwelldrilling.com

WILL PETERSON WELL DRILLING

Bryant Stocking
7765 Hwy 29
Kelseyville. CA 95451

3/8/2020

To whom this may concern,

The static water level was 200' below surface before the pump test began. The static water level dropped to 350' below surface after 1 hour of pumping @ 500 GPM.

We pumped 500 GPM for 6 hours. During the duration of the 6-hour pump test, the static water level never dropped below 350'. Within 1/2 hour after the pump was stopped, the well returned the static water level to 200' below surface.

The static water level was rechecked 24 hours from the end of the previous test and it was at 200' below surface.

Feel free to call us with any questions at (707) 277-0103 or (707) 272-1121.

Sincerely,

Will Peterson Well Drilling
Lic#1009053



PO Box 695
Kelseyville, CA
95451

PHONE (707) 277-0103
FAX (707) 277-0103
EMAIL William.peterson707@yahoo.com
WEBSITE www.willpetersonwelldrilling.com

Appendix D: Water Availability Report

NAPA VALLEY VINEYARD ENGINEERING, INC.

176 MAIN STREET, SUITE B
ST. HELENA, NAPA VALLEY, CALIFORNIA 94574
(707) 963-4927 nvvedla@covad.net

DREW L. ASPEGREN, P.E.
CIVIL ENGINEER



STOCKING EROSION CONTROL PLAN

WATER DEMAND AND WATER AVAILABILITY ANALYSIS
May 30, 2018

Water Demand

It is proposed that the new vineyard (259.02 net acres) will be irrigated using groundwater. The average annual water demand is:

$$(259.02 \text{ vine acres})(1089 \text{ vines/ac}) = 282,073 \text{ vines}$$
$$(282,073 \text{ vines})(100 \text{ gal/vine/yr})/(325,851 \text{ gal/af}) = 86.6 \text{ afa (acre-feet per annum)}$$

Allowing 0.5 afa for other minor agricultural uses, total average vineyard water use is expected to be ±87.1 afa

There are no other uses for water on the property.

Water Availability

The soils mapped for the subject property are Aiken-Sobrante Association, Benbridge-Konocti Association, Bottlerock-Glenview-Arrowhead complex and Clear Lake Variant clay, drained, all of which are derived from the underlying volcanic parent material. It has been estimated that about 9-13% of rainfall which falls on these volcanics can percolate into the underlying formation and appear in the deep aquifers (USGS Water Resources Investigation 77-82, Michael Johnson, 1977); the remaining 87-91% flows off site as direct runoff or is held in the topsoils to be evapotransported by surface vegetation.

The five parcels plus easements total some 666.5 acres overlying these volcanic formations, and the average annual rainfall is ±32" (USGS Isohyetal Map, Mean Annual Precipitation in the California Region, S.E. Rantz, 1972). On average, the property will receive ±1,777 af of rainfall ($666.5 \text{ ac} \times 32" = 1,777.33 \text{ af}$). Using a conservative estimate of 10% appearing as annual groundwater recharge, it is expected that the Stocking properties would contribute an average of about 178 af to the groundwater supply annually.

The Isohyetal Rainfall map shows that Ukiah and Stocking Vineyards have approximately the same average annual rainfall (32"). NOAA rainfall records for Ukiah show that 17.11" fell during 2013-14 and 24.73" during 2014-15. We consider 2014-15 to be a "dry year"; (±77% of average) and 2013-14 to be an "extremely dry year": (±53% of average). Assuming the same rainfall at Stocking Vineyards, and using the same analysis presented above, it is expected that for 2013-14, ±950 acre-feet (af) would fall on the 666.5 acre property, and ±95 af would appear as groundwater. Similarly, for 2014-15, ±1,373 af would fall on the property and ±137 af would appear as groundwater.

Conclusions

Total average annual water demand is ±87.1 afa, or about 49% of the subject properties' average annual groundwater recharge. Further, the 87.1 afa total water demand then would be ±92% (87/95) of the 2013-14 rainfall contribution to groundwater, and ±63% (87/137) during 2014-15. Over the long term, it is expected that using groundwater to support the proposed project will not diminish the underlying aquifer. Even during those back to back dry years, it is expected that vineyard irrigation would not have diminished the underlying aquifer nor impacted other wells.