

June 17, 2024

Kerry Smith Wright Corner, Inc. 4370 Old Sonoma Highway Napa, CA Kerry@kerrysmithwatercolors.com

SUBJECT: WATER AVAILABILITY ANALYSIS REPORT 4370 OLD SONOMA HIGHWAY NAPA, CALIFORNIA NAPA COUNTY APN 047-110-017 EBA Job No. 23-3367

Mrs. Smith,

EBA Engineering (EBA) is pleased to present this Water Availability Analysis (WAA) in connection with permitting services for the development of the site located at 4370 Old Sonoma Highway in Napa, California (herein referred to as the project site). The intent of this WAA is to provide required information to obtain a water use permit for the development of the site in conformance to the requirements of Napa County's WAA Guidance Document, adopted May 12, 2015 (Napa County, 2015).

This WAA concludes that site groundwater demands are less than the estimated volume of water available for groundwater recharge on the project site under average precipitation years. Further, the existing groundwater well at the project site, is located less than 500 feet to an existing nearby well(s) and located less than 1,500 to a nearby Significant Stream(s). As such, Tier 1, 2, and 3 analyses will be evaluated in conformance with the previously outlined Napa County permitting guidance documentation.

- Well Permit Standards Applicable Tables available on the Napa County website on the Groundwater Sustainability page;
- Draft GSA Response to the Governor's Emergency Executive Order, prepared by Napa County, dated June 2, 2022; and
- WAA Guidance Document, prepared by Napa County, adopted May 12, 2015.

1.0 BACKGROUND INFORMATION

1.1 Project Description

The project site is located on Old Sonoma Highway approximately 4-miles southwest of the City of Napa in Napa County (Figure 1, Appendix A). The project site is further identified by Napa County Assessor's Parcel Number (APN) 047-110-017 and is 2.35-acres (AC) in size. Please refer to Appendix D of this report for a complete project site description and site plan illustration, provided in the March 2024 *Wastewater Feasibility Study* prepared by NorCal Civil Engineering, Inc. Ground elevations across the project site range from approximately 115 to 130 feet above mean sea level (MSL). The entire project site is mapped as Haire loam soil with a hydrologic soil group rating of D (NRCS, 2020).

There is one existing well on the project site. According to the Well Completion Report (WCR) (No. e0173012) for the on-site well, archived within the Napa County Electronic Document Retrieval database, the well is completed to a depth of 610 feet below ground surface (BGS), had a depth-to-water (DTW) of 191 feet BGS and had a yield of 30 gallons per minute (GPM) at the time of well completion. A copy of the WCR (No. e0173012) for the on-site well can be found in Appendix B. Please refer to Appendix D of this Report for the location of the existing on-site well provided in the March 2024 *Wastewater Feasibility Study* created by NorCal Civil Engineering, Inc.

1.2 <u>Hydrogeologic Setting</u>

The Coast Ranges geomorphic province encapsulates the greater north bay area with northwest-trending ridges and valleys that run subparallel to the San Andreas Fault Zone. Regional geology surrounding the project site has been mapped to generally consist of Quaternary aged stream channel deposits (Qhc), stream terrace deposits (Qht), alluvium (Qa, Qpa, and Qoa), colluvium (Qc), and landslide deposits (Qls) overlying the early Pleistocene to Pliocene Huichica Formation (Th), the late Miocene to Pliocene aged Sonoma Volcanics (Tsvm and Tsvt), and the early Cretaceous to late Jurassic aged Great Valley Sequence (KJgv) (California Geological Survey [CGS], 2004). In the immediate vicinity of the project site, the surface geology has been mapped to consist predominantly of alluvium. Mapped geology in the vicinity of the project site is consistent with the regional hydrogeology described in the *Napa Valley Subbasin Groundwater Sustainability Plan* (Napa County, 2022a). Please refer to the Geologic Map included herein as Figure 3 (Appendix A).

Well Completion Reports maintained by California Department of Water Resources (DWR) for nearby wells are consistent with mapped geology. Wells nearby the project site are reportedly completed in predominantly the Great Valley Sequence. Drillers described encountering predominantly clay, sand, gravel, sandstone, and shale from the ground surface to the maximum depths explored. Water bearing zones for wells completed in the Great Valley Sequence are not expected to contain significant amounts of groundwater (Napa County, 2022a). Reported well yields in nearby wells range from 4



to 40 GPM. Please refer to Figure 3 (Appendix A) for a map of the geology in the vicinity of the project site.

A mapped Significant Stream, Carneros Creek, is located approximately 435 feet to the west of the existing on-site well. Please refer to Figure 2 (Appendix A) for a map of the project site in relation to Carneros Creek.

1.3 Local Climate

Review of published data by the Parameter-Elevation Regressions on Independent Slopes Model (PRISM) Climate Group, indicates the 10-year (2012 – 2021) average annual rainfall in the vicinity of the project site as defined by correspondence with Napa County is 23.2 inches per year (Prism, 2023). EBA understands the 10-year rainfall is considered average as defined by correspondence with Napa County. The 10-year data were evaluated using the 4 km spatial resolution and the interpolate grid cell values function.

Mean annual potential evapotranspiration (ET_o) was estimated to be 43.9 inches per year based on reference ET_o tables provided in the California Irrigation Management Information System (CIMIS) Reference Evapotranspiration Website (CIMIS, 2023).

2.0 EXISTING AND PROPOSED ON-SITE GROUNDWATER DEMANDS

Water demand was estimated based on information provided by the Client, Napa County Alternative Sewage Treatment Systems (ASTS) Guidelines, and the *WAA Guidance Document*. Please refer to Appendix D of this Report for the water demand estimates provided in the March 2024 *Wastewater Feasibility Study* created by NorCal Civil Engineering, Inc. NorCal reported a daily water demand of 2,168 gallons per day (GPD) for the proposed project. In addition to the water demand estimates provided by Norcal, a landscape irrigation estimate of 242 GPD for the proposed project was provided by the Client. Therefore, the maximum daily water demand of approximately 2,410 GPD (2,168 GPD + 242 GPD) is equivalent to an annual groundwater use of approximately 2.70 AFY.

3.0 GROUNDWATER RECHARGE ANALYSES

3.1 **Project Site Groundwater Recharge Methodology**

EBA analyzed the project site groundwater budget by comparing estimated inflows and outflows from the aquifer complex. The volume available for recharge was estimated based on precipitation and septic return flows as the principal source of inflow while outflows were estimated based on run-off, evapotranspiration, canopy interception, and spring losses. While secondary sources of inflow (such as upgradient boundary flow), and secondary sources of outflow (such as downgradient boundary flow, and surface-watergroundwater interaction) potentially contribute to the groundwater budget, they are



assumed to be equal and resultant in no net gain or loss. Based on this approach, the following equation was used to calculate potential volume of water available for recharge:

Volume of Water Available for Recharge =
$$(P + SRF) - (R + ET_a + E_{Cl} + S)$$

where "P" is equal to precipitation (in acre-feet per year [AFY]), "SRF" is equal to Septic Return Flows (in AFY), "R" is equal to run-off (in AFY), "ET_a" is equal to actual evapotranspiration (in AFY), "E_{CI}" is equal to evaporative losses related to canopy interception (in AFY) and "S" is equal to spring flow (in AFY). The groundwater recharge analysis was performed during average precipitation years (10-year period from 2012 to 2021). Details regarding the calculation of each of these variables are presented below.

Precipitation (P)

The total volume of precipitation that falls within the area of the project site was calculated by multiplying the average annual precipitation rate (23.2 inches per year) by the sum of the area of the project site (2.35 AC). The total annual precipitation over this area corresponds to 4.54 AFY during average annual rainfall scenario.

Septic Return Flows (SRF)

Based on the lack of a local sanitary sewer system near the project site, wastewater associated with indoor use is currently and will be managed in the future via an on-site sewage disposal system consisting of a septic tank (solids collection) and leach field (liquid effluent). The leach field component is designed to promote percolation of the liquid effluent into the subgrade and allow for natural filtration and treatment of the effluent prior to reaching the underlying groundwater table.

An 80 percent recharge factor is used in recharge estimates in the Napa County Groundwater Sustainability Plan (GSP) Section 8 (Napa County, 2022b). NorCal Engineering provided a daily water demand estimate of 2,168 GPD, which is equivalent to an annual use of approximately 791,320 gallons per year (GPY) or 2.43 AFY, assuming a 365-day use frequency. The total annual septic return flow to groundwater for the proposed project, using an 80 percent recharge factor, is estimated to be 1.94 AFY.

Run-off (R)

The percentage of the total precipitation that results as outflow (i.e., run-off) was estimated by comparing the ground slopes within the project site to run-off coefficients (RCs) for various types of developed and natural settings (ODOT, 2014). In general, slope surfaces were separated by areas identified as "flat" (less than 2 percent), "rolling" (2 to 10 percent) and "hilly" (greater than 10 percent). In this regard, the relative percentages of slopes within the project site that align with these categories are approximately 0, 100, and 0 percent, respectively. These areas, in turn, were further separated by the types of settings. Table 1 on the following page provides a breakdown of the setting types and range of RCs used in the analysis:



TABLE 1 (PROJECT SITE) RUNOFF COEFFICENTS AND AREAS										
Land TypeArea (AC)Runoff Coefficient (RC)										
Oak	0.25	0.15								
Seasonal Grasses	1.124	0.22								
Landscaping	0.107	0.11								
Bioretention Zones	0.025	0.15								
Roofs/Concrete Paths/Driveways	0.518	0.90								
Gravel Driveway	0.325	0.85								
TOTAL	2.35	-								

Using the aforementioned variables, the annual run-off volume for each area was calculated by multiplying the respective areas by the annual precipitation volume, followed by multiplying the corresponding products by the applicable RC. Please note that the acreages summarized in Table 1 correspond to future land use of the project site parcel. The summation of all the area run-off volumes equates to the total annual run-off volume for the entire project site. The average annual run-off volume was calculated to be approximately 2.04 AFY during average precipitation years.

Actual Evapotranspiration (ET_a)

As previously noted in Subsection 1.3 (*Local Climate*), the mean annual potential evapotranspiration (ET_o) for the area is estimated to be 43.9 inches per year, which translates to a total ET_o volume of approximately 8.60 AFY within the area of the project site parcel. Actual Evapotranspiration (ET_a) in turn, was calculated using a Water Use Classification of Landscape Species (WUCOLS) site specific model as described in *A Guide to Estimating Irrigation Water Needs of Landscape Plantings in California* (UC Cooperative Extension, 2000). The WUCOLS model estimates ET_a for the native vegetation and landscaping. A review of aerial photography was utilized to determine appropriate species factors (K_S) and density factors (K_D) as outlined in the WUCOLS Guidance Documentation. A microclimate factor (K_{MC}) of 1 was selected based upon review of available climate data. Resulting landscape coefficients (K_L) were then multiplied by respective unit areas to determine an estimated ET_a for these vegetation types within the project site parcel.

The total ET_a within the project site parcel was then calculated to represent approximately 0.79 AFY during average precipitation years.

Canopy Interception (EC_l)

Canopy interception corresponds to the fraction of rainfall that is intercepted by the canopy of trees and shrubs and subsequently lost to evaporation. This fraction was estimated using equations developed by Helvey and Patric (Helvey & Patric, 1965) that utilize gross rainfall, throughput (i.e., rainfall that reaches the ground through spaces in



the vegetative canopy and as drip from leaves, twigs, and stems), and stemflow (i.e., rainfall that is caught on the canopy and reaches the ground by running down stems) variables. The calculation excluded grassland, vineyard, surface water bodies, pavement, and roof areas as the fraction of canopy interception for these areas is assumed to be negligible or not applicable. All other areas within the project site covered by tree canopy (approximately 0.25 AC) were subjected to canopy interception losses. Canopy interception losses were calculated to be approximately 0.03 AFY during average precipitation years.

Springs

Published data regarding spring flow discharges in the area were not available. EBA did not identify any potential spring locations during our field reconnaissance.

Water Budget Results

Using each of the calculated values in the groundwater recharge equation and taking into consideration the septic return flows to groundwater, the corresponding estimated volume of water available for groundwater recharge on the project site is approximately 3.62 AFY during average precipitation years. Based on the estimated groundwater demand of 2.70 AFY, this total groundwater use equates to approximately 75 percent of the water available for recharge in the area of the project site during average precipitation years. Results from the project water budget analysis are summarized in Tables 2 below.

TABLE 2 RESULTS FROM PROJECT SITE RECHARGE CALCULATIONS AVERAGE RAINFALL YEAR										
Description Inflow/Outflow Volume (AFY)										
Precipitation	Inflow	+4.54								
Septic Return Flows	Inflow	+1.94								
Run-off	Outflow	-2.04								
Actual Evapotranspiration	Outflow	-0.79								
Canopy Interception	Outflow	-0.03								
Springs	Outflow	- 0.00								
TOTALS	-	+3.62								

AFY: Acre-Feet per year.

4.0 WELL INTERFERENCE

Tier 2, outlined in the WAA Guidance document and the Well Permit Standards – Applicable Tables, requires that a well interference evaluation be conducted for a new or



existing groundwater well, constructed less than 500 feet to a nearby well. The existing well (No. e0173012) on the project site is constructed less than 500 feet to a nearby well. Therefore, the following Tier 2 evaluation to assess the potential drawdown in the existing nearby well(s) is described below in the following sections.

4.1 Drawdown Characteristics

One on-site well exists on the project site. However, no data exists to conduct an empirical distance-drawdown analysis which would require a pumping test with observation well data.

The nearest well (No. 796960) to the existing on-site well (No. e0173012) is approximately 150 feet away and will be used for the Tier 2 analyses.

4.2 Daily Water Demand

In accordance with the estimates outlined in NorCal Civil Engineering, Inc.'s *Wastewater Feasibility Study* (Appendix D) and the landscape irrigation water demand estimate provided by the Client, the maximum daily water demand for the proposed project is 2,410 GPD.

4.3 <u>Pumping Rate and Duration</u>

As presented above, the daily water demand is approximately 2,410 GPD. Whereas the demand would likely occur intermittently throughout the day, the total volume was assumed to be pumped at one time as a conservative measure.

The pumping duration required to meet the maximum daily water demand was estimated based on the 30 GPM yield from the existing on-site groundwater well (No. e0173012), at the time of well completion. It should be noted that this 30 GPM yield estimate is consistent with the average corrected yield (21 GPM) from the WCRs of water supply wells located in close proximity to the project site. According to these WCRs, the majority of these wells appear to be completed in similar lithology as the existing on-site well.

At an average pumping rate of 30 GPM, approximately 80 minutes of pumping is required to reach the maximum daily water demand. Based on known drawdown and recharge characteristics of wells in the vicinity of the project site, it is likely that the existing well will be solely capable of providing water supply for the proposed project.

4.4 Aquifer Transmissivity

Determination of aquifer transmissivity was accomplished using available data from the WCRs of water supply wells screened in lithology (Alluvium, Huichica, and Great Valley Sequence) the existing on-site well is completed in. The average corrected yield (21 GPM) and average drawdown (166 feet) calculated from data recorded in the WCRs was



used in an empirical transmissivity equation published in the *Groundwater and Wells* (Driscoll, 1986). The method used to calculate transmissivity is presented below:

$$\frac{Q}{s} = \frac{T}{1500}$$

for an unconfined aquifer, where "Q" is discharge rate (GPM), "s" is feet of drawdown in the well, and "T" is transmissivity (gallons per day per foot [GPD/ft]). Please note that an 80 percent multiplier was applied to the yield data to account for well inefficiency (assumed). The corresponding results from the calculation indicated a transmissivity value of 190 GPD/ft (25 square feet per day [ft²/day]).

Based on the method used above, aquifer transmissivity estimated from water supply wells in the vicinity of the project site (screened in Great Valley Sequence) is approximately 190 GPD/ft.

4.5 Well Interference Characteristics

The evaluation of well interference was conducted utilizing a distance-drawdown analytical computer model. Given a discharge rate and estimates of aquifer characteristics, the analytical model predicts groundwater drawdown as a function of distance from a pumping well. For this study, the classic nonequilibrium equation of Theis (1935) and the modified nonequilibrium equation of Jacob (1946) were used as the basis of our analysis.

Aquifer characteristics for the model were based on WCR data and literature values. As discussed previously in *Section 4.4*, the aquifer transmissivity was calculated using available data from the WCRs and an empirical transmissivity equation. A range of aquifer storage coefficient values for the model were based on representative specific yield values (Sandstone: Great Valley formation [0.05 - 0.15] - Shale: Great Valley formation [0.005 - 0.05]) provided on Table F-2 in Appendix F of the Napa County *WAA document.*

30 GPM

190 GPD/ft

80 minutes

Range: 0.005 to 0.15

The following input parameters were used in the analytical model:

- Pumping Rate:
- Aquifer Transmissivity:

Aquifer Storage Coefficient:

• Pumping Duration:

EBA conducted the distance-drawdown analytical computer model utilizing the range provided above for aquifer storage coefficient and the aquifer transmissivity. Model results, using the aforementioned storage coefficient value of 0.005 from the Napa County WAA and a transmissivity value of 190 GPD/ft, provided the most conservative model. It should be noted that the most conservative model, given the assumptions noted above, provided the result that would induce the largest drawdown in the well farthest from the existing on-site well. Based on these aquifer characteristics and the pumping duration



(80 minutes) required to meet the project sites maximum daily water demand, the analytical computer model predicts approximately 10 feet of drawdown at a distance of 24 feet, with less than one foot of drawdown at 48 feet.

According to the *WAA Guidance document* any neighboring well(s) (\leq 6-inch diameter casing) within 500 feet of a new or existing groundwater well, screened within the same aquifer as the new or existing well, must have an estimated drawdown of 10 feet or less. As predicted by the distance-drawdown model presented above, the existing well on the project site must be located greater than approximately 24 feet from any nearby groundwater well(s) to be in conformance with Napa County Guidelines (\leq 10 feet of drawdown). Thus, the existing on-site well is greater than the 24-foot distance to a nearby well and is therefore in conformance with Napa County Guidelines. Please note that the above calculations assume 95% recovery within the pumping well before beginning the next pumping cycle.

5.0 SURFACE WATER DEPLETION FROM GROUNDWATER PRODUCTION

Tier 3, outlined in the *WAA Guidance document* and the *Well Permit Standards* – *Applicability Tables*, requires that a groundwater/surface water interaction evaluation be conducted for new or existing wells, located within 1,500 feet of a mapped Significant Stream(s). As previously mentioned, a mapped Significant Stream, Carneros Creek, is located approximately 435 feet to the west of the existing on-site groundwater well.

According to the *WAA Guidance document,* "streamflow depletion will be calculated using industry standard methods appropriate to the aquifer under consideration; such methods include the Hantush Equation applicable for aquifers hydraulically connected with surface waters (Hantush, 1965)." EBA used the web-based United States Geological Survey (USGS) STRMDEPL08 tool, with the Hantush equation described therein, to characterize streamflow depletion from a nearby pumping well (USGS, 2022). Please refer to *Section 4.0* above for a description of the calculations for the model parameter values, storage coefficient and transmissivity.

The following assumed parameter values were input into the model:

- Distance between the existing on-site groundwater well and Carneros Creek (435 feet);
- Transmissivity value of 190 GPD/ft (25 ft²/day);
- Storage coefficient values ranging from 0.005 to 0.15;
- Streambed Leakance value of 100 feet;
- A pumping rate of 30 GPM per the existing on-site well; and
- A pumping duration of 1 day.

EBA utilized the same aquifer transmissivity (25 ft^2/day) and aquifer storage coefficient (0.005) values in the streamflow depletion model that resulted in the most conservative

well interference model outlined in *Section 4.0.* The results of the streamflow depletion model for the existing on-site well indicate a stream depletion rate of approximately 0.0000 cubic foot per second. Given the lack of modeled streamflow depletion in Carneros Creek, it is EBA's opinion that pumping from the existing on-site well would not contribute to significant and unreasonable stream depletion in Carneros Creek. It should be noted that this model assumes direct connection between the aquifer and the streambed, which may not be the case at this location.

Please note that the elevation of the Carneros Creek, as measured perpendicular to the existing on-site well, is approximately 94 feet above MSL, based on publicly available elevation data. The elevation of the well head of the on-site well is approximately 120 feet above MSL, which is approximately 26 feet greater in elevation than Carneros Creek. According to the well log (No. e0173012) for the project site well, the reported DTW at the time of well completion was approximately 191 feet BGS. Therefore, the reported static water level in the well at the time of completion in March 2013 was at an elevation of approximately 71 feet below MSL, which suggests that surface water flow in the Carneros Creek is recharging groundwater as opposed to groundwater discharging into Carneros Creek. It should be noted that the existing wells (No. 796960 and 284930) located proximal to Carneros Creek exhibit similar groundwater elevations as those observed in the on-site well. With this being said, the location of the project site well suggests that hydraulic connectivity between the on-site well and the Carneros Creek is low, and the water that will be pumped from the existing on-site well is different than what is in Carneros Creek.

6.0 CONCLUSIONS

The results of the WAA have indicated that:

- According to the water recharge analyses conducted herein, the amount of water available for recharge over the project site area, during average precipitation years, was calculated to be 3.62 AFY. Based on the estimated groundwater demand of 2.70 AFY, this total groundwater use equates to approximately 75 percent of the water available for recharge in the area of the project site during average precipitation years.
- Based on the analysis and assumptions presented herein, it does not appear that pumping in the existing on-site well, will be able to substantially influence any existing neighboring wells. As predicted by the distance-drawdown model presented herein, the existing well on the project site must be located greater than approximately 24 feet from any nearby groundwater well(s) to be in conformance with Napa County Guidelines (≤10 feet of drawdown).
- With regards to the effects of groundwater pumping at the project site on flow of water in Carneros Creek, significant or measurable surface water depletion as a



result of on-site groundwater extraction is not expected from the existing on-site well.

Based on the results of this evaluation, it is EBA's professional opinion that the Tier 1, 2, and 3 analysis is in conformance with the requirements outlined in the Well Permit Standards – Applicable Tables and Napa County *WAA Guidance Document*.

7.0 LIMITATIONS

This report was prepared in accordance with generally accepted standards of professional hydrogeologic and engineering principles and practices at the place and time this study was performed. This warranty is in lieu of all other warranties, either expressed or implied. The conclusions presented herein are based solely on information made available to us by others, and includes professional interpretations based on limited research and data. Based on these circumstances, the decision to conduct additional investigative work to substantiate the findings and conclusions presented herein is the sole responsibility of the Client. No guarantee is made that groundwater of sufficient quantity or quality will be found in any specific depth or interval nor that pumping will not affect quality nor quantity of water found and/or subsidence. This report has been prepared solely for the Client and any reliance on this report by third parties shall be at such party's sole risk.

8.0 CLOSING

EBA appreciates the opportunity to be of service on this project. If you should have any questions regarding the information contained herein, please do not hesitate to contact our office at (707) 544-0784.

Sincerely, EBA ENGINEERING

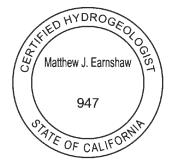
Prepared by

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lan Penn, G.I.T. Project Geologist

Reviewed by

Matthew Earnshaw, P.G., C.E.G., C.Hg., QSD Vice President – Senior Hydrogeologist





Appendices: Appendix A: Figures

Appendix B: On-Site Well – Water Well Completion Report Appendix C: Off-Site Wells – Water Well Completion Reports Appendix D: Existing and Proposed Water Use

9.0 REFERENCES

California Department of Water Resources - Irrigation Training and Research Center, 2003. *California Crop and Soil Evapotranspiration for Water Balances and Irrigation Scheduling/Design*. chromeextension://efaidnbmnnnibpcajpcglclefindmkaj/https://digitalcommons.calpoly.edu /cgi/viewcontent.cgi?article=1154&context=bae_fac, data accessed June 2, 2024.

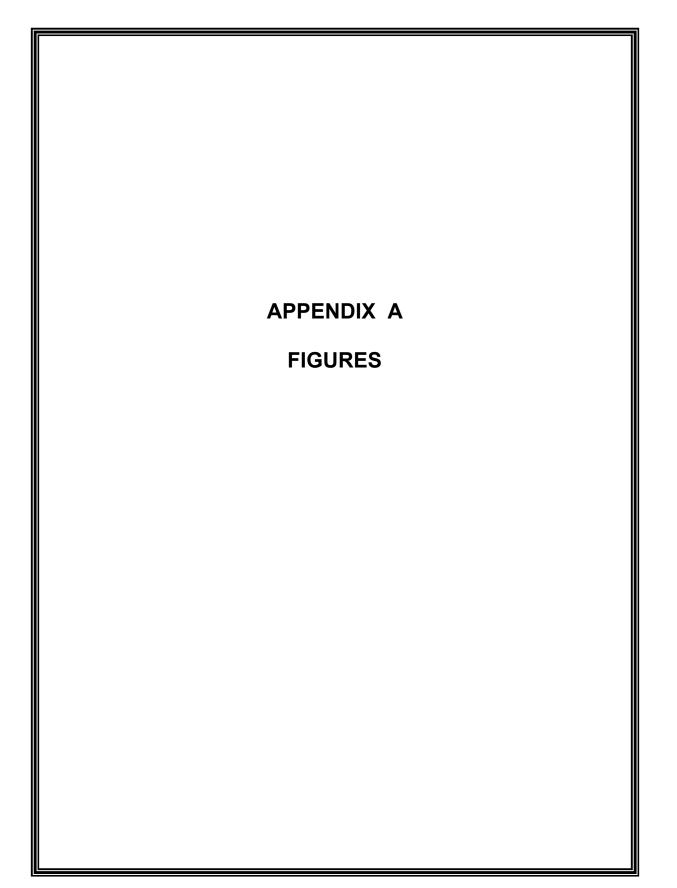
- California Irrigation Management Information System (CIMIS), *Reference Evapotranspiration*, Retrieved from https://cimis.water.ca.gov/ on July 10, 2023.
- CGS, 2004. Preliminary *Geologic Map of the Napa 7.5'* Quadrangle –Napa County, California: A Digital Database. California Geological Survey – Clahan, K.B. et al.
- Driscoll, F.G., 1986. Groundwater and Wells, Johnson Division, St. Paul, Minnesota.
- Helvey, J.D. and Patric, J.H., 1965, *Canopy and Litter Interception of Rainfall by Hardwoods of Eastern United States*; Water Resources Research, Volume 1, Number 2, Second Quarter, p. 193-205.
- Jacob, C.E., 1946, *Drawdown Test to Determine Effective Radius of Artesian Well: Transactions*, Am. Soc. Civil Engineers, Vol. 112, p. 1047-1070.
- Napa County, 2015. *Water Availability Analysis (WAA) Guidance Document*. Accessed June 2, 2024. https://www.countyofnapa.org/3074/Groundwater-Sustainability
- Napa County, 2022a. *Napa Valley Subbasin Groundwater Sustainability Plan, Section 4, Basin Setting - Napa County, CA.* January 2022. Accessed June 2, 2024. https://www.countyofnapa.org/3218/GSP-Sections
- Napa County, 2022b. *Napa Valley Subbasin Groundwater Sustainability Plan, Section 8, Water Budget - Napa County, CA.* January 2022. Accessed June 2, 2024. https://www.countyofnapa.org/3218/GSP-Sections
- Napa County, 2022c. *Draft Napa County and GSA Response to the Governor's Emergency Executive Order N-7-22,* Napa County Planning and Environmental Services Department, Napa County Groundwater Sustainability Agency. June 2, 2022.

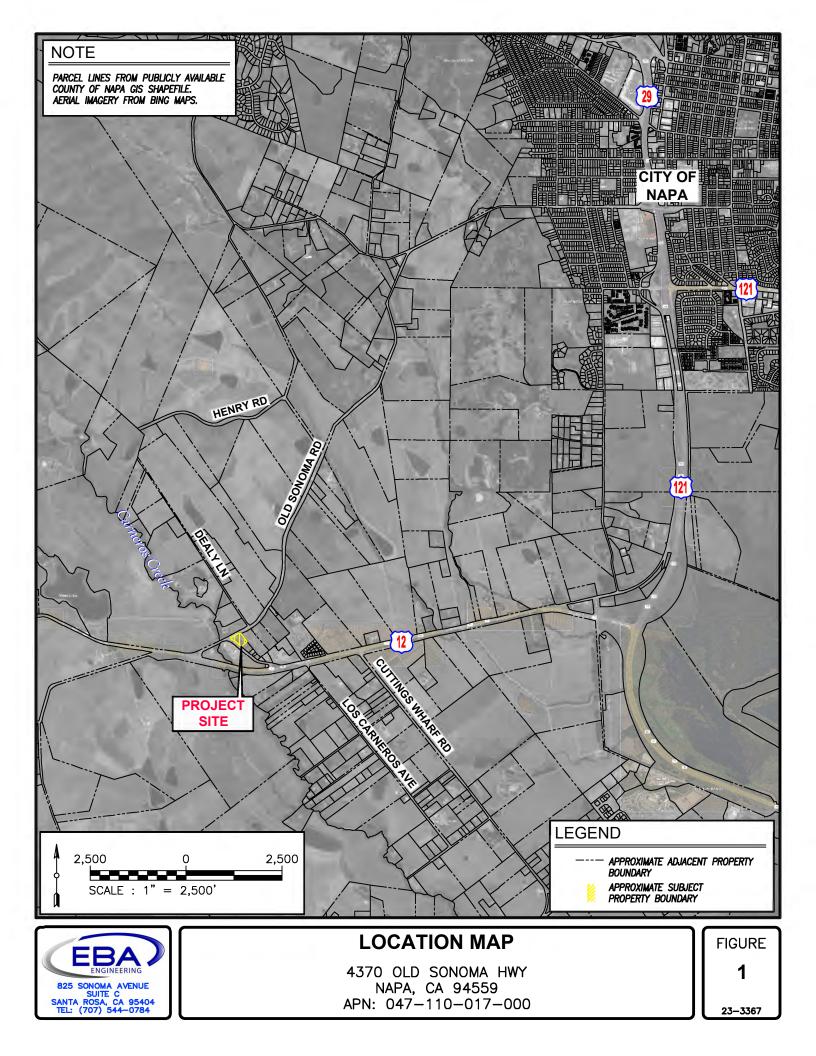
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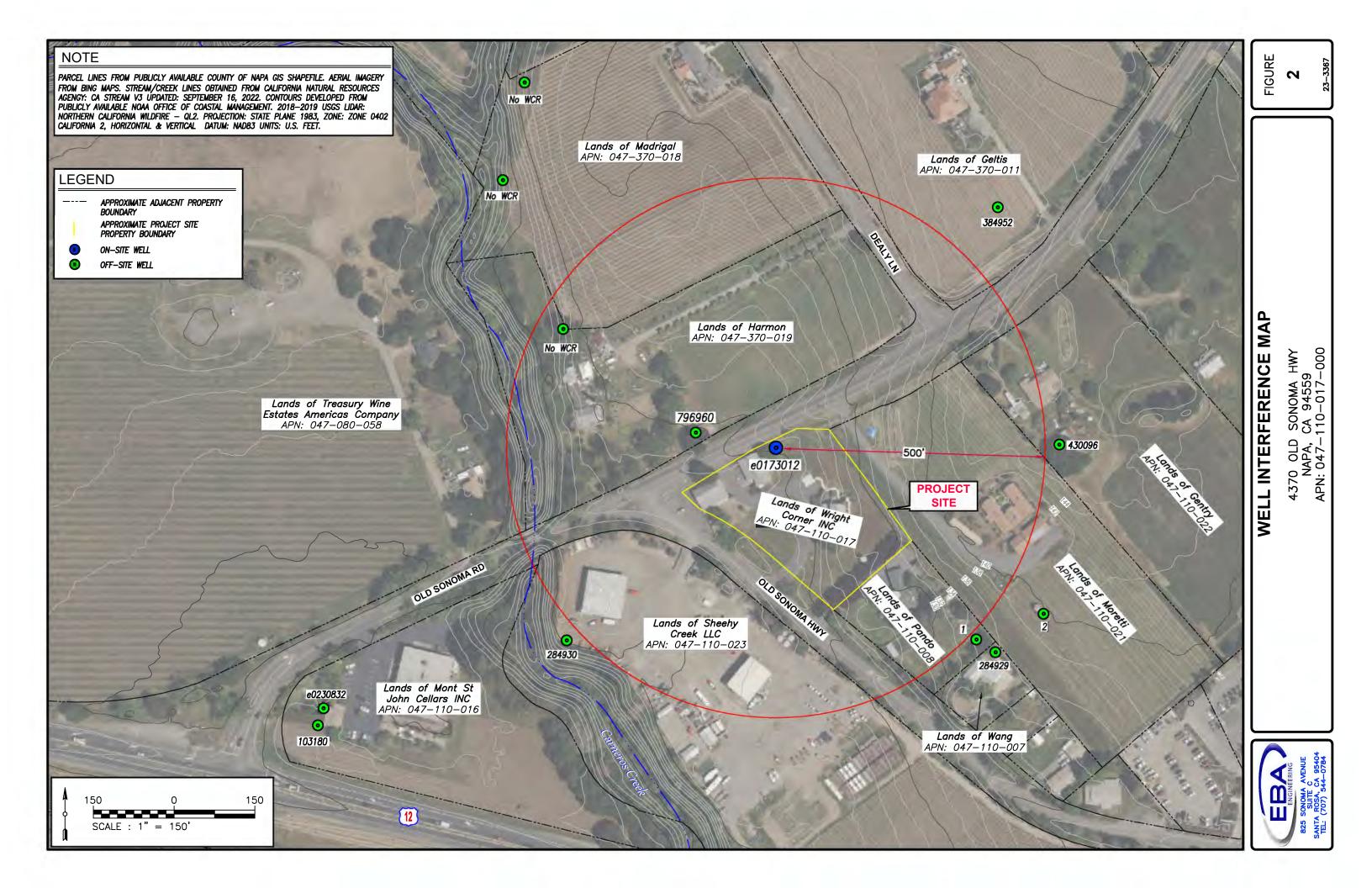


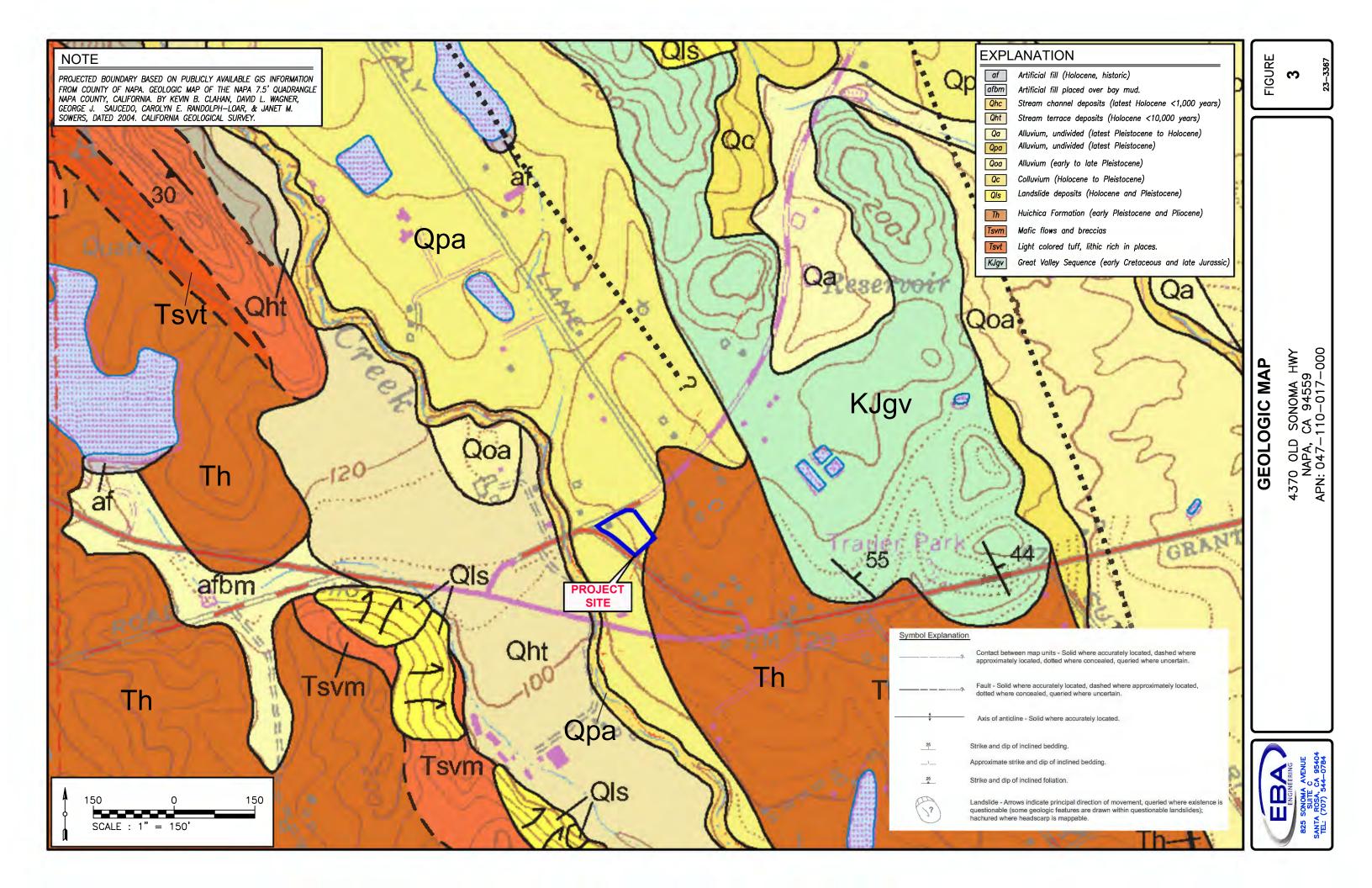
- Napa County, 2022d. *Well Permit Standards* | *Napa County, CA*. January 10, 2024. Accessed June 2, 2024. https://www.countyofnapa.org/3074/Groundwater-Sustainability
- Natural Resources Conservation Service (NRCS), 2020, *Web Soil Survey*. https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx, data accessed June 2, 2024.
- Oregon Department of Transportation, Highway Division, April 2014, *Hydraulics Design Manual, Appendix F;* Prepared by Engineering and Asset Management Unit, Geo-Environmental Section.
- PRISM Climate Group, Oregon State University, https://prism.oregonstate.edu/, data accessed on May 19, 2023.
- Theis, C.V., 1935, *The Relation between the Lowering of the Piezometric Surface and the Rate and Duration of Discharge of a Well Using Ground Water Storage.* Am. Geophysical Union, Washington, D.C. p. 518-524.
- University of California Cooperative Extension California Department of Water Resources, 2000. A Guide to Estimating Irrigation Water Needs of Landscape Plantings in California - The Landscape Coefficient Method and WUCOLS III. https://cimis.water.ca.gov/Content/PDF/wucols00.pdf data accessed June 2, 2024.
- United States Geological Survey, 2022, STRMDEPL08-An Extended Version of STRMDEPL with Additional Analytical Solutions to Calculate Streamflow Depletion by Nearby Pumping Wells. Accessed June 2, 2024. https://mi.water.usgs.gov/software/groundwater/strmdepl08/











APPENDIX B

ON-SITE WELL

WATER WELL COMPLETION REPORT

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0	<u>t to</u> 10		Top Soil	souge materi	យ, ប្លាយា ទ	28, 00101, 81	<u>.</u>				18/oll				
10	15		Rock/Gravel						4970 (NH Cont		Locatio	8		
15	30		Clay	· · · · · · · · · · · · · · · · · · ·					ss <u>4370 (</u>	Jia Sono	oma Ro.		. None		
30	35		Rock/Gravel						lapa			Co	unty Napa		
35	80		Hard Clay		· · · · · · · · · · · · · · · · · · ·			Latitud	le		Sec	N Longiti	ude	W Sec.	
80	90				····			Datum					Decimal Long		
			Rock/Clay	+ Pt-alaineatic (* 19 milainea				11	look 047	-					
90	11		Hard Clay						hip		16		Section		
110	12		Rock/Clay												
120	35		Hard Clay					(Skeid	LOCa h must be drav	tion Sk		proted)	O New Well		
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480	49		Green Sand					-11	\mathcal{N}			120	O Deepen		
490	55		Green Sand			lay		-11 -	CE ST ST			Ser.	O Other O Destroy		
550	59			indstone/Rock			-41	51		1	,r	Describe procedures and under rGEOLOGIC LOG	T#'#' 33		
590	61	0	Clay/Sandsto	one				-11	- 'সুহ'		000		Planned Use		
ļ			Ļ							'ヾゟ	5		Water Supply		
								-11			- m 30	11	Domestic DP	ublic	
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			L					11	`	<i>"</i> 0		- 1	O Sparging O Test Well	1	
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										1	(Fee	t) Date l	Measured 03/08/201	3	
Total C	Depth of	Bonng	610			Feel							Type <u>Air Lift</u>		
Total	leath of	Complet	ted Well 610			Feet							Drawdown <u>610</u> (F	eet)	
	-9-1-01							May n	ot be repre-	sentative	of a wel				
				Cas	ings							Annula	ar Material		
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510 / E D	Geologi	ic Log	hments			Dave Be	SS	at this repor				o the best	of my knowledge and	belief	
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APPENDIX C

OFF-SITE WELLS

WATER WELL COMPLETION REPORTS

FEE 7-9 DATE	4/21/87
RECEIPT NO.	35 BY Tu

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4360 Old Sonoma Hwy, Napa Well Log # 1

A.P. NO. 47-110-08

NAPA COUNTY HEALTH DEPARTMENT DIVISION OF ENVIRONMENTAL HEALTH

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- Server	APPL	ICATION & PERMI		RUCT A WATER WEL	_L
	(Well Driller)		ADDRESS		$\frac{1}{10000000000000000000000000000000000$
TYPE OF WORK	NEW WELL TYPE I PERMIT TYPE II PERMIT	DESTROY	/		PENING
PROPOSED USE	DOMESTIC	IRRIGATION OTHER		INDUSTRIAL HOT WATER	MUNICIPAL
Distance from	osal on site (existing or prop n well to any part of nearest e to accompany application	sewage disposal system	100-1-	Individual <u>X</u> feet. feet from centerline.	Private
TYPE OF EQ	UIPMENT TO BE USED:	Rotary	Cable	Hand Dug	Other
□ A certif	to the Worker's Compensati	ompensation Insurance i the work for which this on laws in California.	s being filed wi	th this application.	rson in any manner so as to become
	Signature of Appli	cant			Date
CONSTRUCT Total Depth 2 Surface Seal to Any Stratas Seal If yes, depth of From Ft Perforations: From 2000 From Ft WAT	Ft. Depth of Casing o2 Ft. ealed: YesNo of stratas: t. to Ft//FhomFt. ft. to Ft./From \$ Ft. t. to Ft. ER LEVELS	to / 80 Ft.	(Formation; de Ft 0-5 5-10 10-30 30-50 50-7 75-8	WELL LOG escribed by color, size of mo to Clay Clay Clay Clay Clay Clay Clay Clay	eterial, structure) Ft. avel Lay 2h J Maurel 2h J Maurel
WE How performe Yield 202 GF Hrs. Annular s in. Dia Gravel Pack: Yes No_ Grout No Other Ch Pump Co	ELL TESTS M with SOFt. Drawdov pace depth 22 Ft./Thickn meter of casing Mater Yes No Condu Sealed with: Condu leat Cement Pudd. Cla horination by: Owner	vn after ness ial uctor Casing: rrete V	85-1	80 greer C	sh, Streaks of up sandstate
the best of my にしー d エレロー・チェ	10	Pink-Owner	0	, contractor for the por is permit, and that the info	MAY 13 1987

	STATE OF CALIF			ONLY - DO NOT FILL IN -
	WELL COMPLETI Refer to Instruction			ATE WELL NO./STATION NO.
Page of				
Dwner's Well No.	No. 79	0300		
	Ended 7-2404			
Local Permit Agency $\frac{113\mu A}{1-0144}$ Permit No. $E04-0144$	Permit Date 7-07-	mel	<u> </u>	APN/TRS/OTHER
Permit No. <u>E 17 CIELC</u> GEOLOGIC I			WELL O	(I/NIED
N I		Tar		WNER
ORIENTATION (⊻) ¥VerticalHOR DRILLING METHOD ×1771	*1	Mailing Address		
DEPTH FROM METHOD	KI FLUID AIR	Mailing Address	المتكافا المارة ويصبب وبالبيان فجمه ببعيه بمجاريها والاحم والمتحد فأستعد المراجع	
	ial, grain size, color, etc.	CITY		STATE ZIP
		Address / De	OB WELL LOC	ATION LANIA
0 8 BNOWN C,	IAN STAT	City NA		1
		County NIA	<u>94</u>	
8 9 GRAVEL	······································	APN Book 📿	Second Second	Parcel 019
		Township	Range S	lection
9 75 BROWN	CIRU	Latitude	NORTH L	ongitude <u> </u>
	<u> </u>	· DEG. N	MIN. SEC. CATION SKETCH -	DEG. MIN. SEC. → ÂÇTIVITY (∠) -
>5 85 GRaye W	ITH BRAND		NORTH	NÉW WELL
LIAY	<u></u>	-		MODIFICATION/REPAIR
سر و فرود یه شرعه ^ا مستخب ا	· · · · · · · · · · · · · · · · · · ·	-		Deepen Other (Specify)
*5 150 YEIDEL C	<u>} 1/4 1</u>	4	ł	2.
50 390 GRAY GRE	ERA SHNDSTUN	77		DESTROY (Describe Procedures and Materia Under "GEOLOGIC LO
DISCHARTER STREET	State 21114 1.1 3 10 146	1	11	
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GAICID GRAY SH.	WESTONE		man 18	MONITORING TEST WELL
	<u></u>	1	~~ [2] IN	CATHODIC PROTECTION
-IDISSO GRAY CH	IALE +	1	RETLE	HEAT EXCHANGE
	UNSTITUE	1	Xir 18	DIRECT PUSH INJECTION
1	······································		WIN 15	VAPOR EXTRACTION
]	7	SPARGING
1 · · · · · · · · · · · · · · · · · · ·	RECEIVED	Illustrate or Describe	— SOUTH — Distance of Well from Roads,	Buildings, REMEDIATION
	. I & her her some a	Fences, Rivers, etc. and necessary. PLEASE B	ad attach a map. Use addition BE ACCURATE & COMPLE	al paper if OTHER (SPECIFY)
	AUG 0 3 2004			F COMPLETED WELL
	AUU V J LUV.	DEPTH TO FIRST W		
	DEPT: OF	DEPTH OF STATIC	AICh 200	W OURFAUE
	ENVIRONMENTAL MANAGEMENT			استسكافة ببعديا فالمسافة الجر
	· · · · · · · · · · · · · · · · · · ·	ESTIMATED YIELD *		ST TYPE An 13 LIFT
) <i>DD</i> (Feet)	TEST LENGTH	(Hrs.) TOTAL DRAWDC	
	(1ºeet)	NIAY not be repres	sentative of a weu's long-	term yield.
	CASING (S)			ANNULAR MATERIAL
FROM SURFACE HOLE TYPE (∠)	MATERIAL / INTERNAL GAUGE	E SLOT SIZE	FROM SURFACE	
The second secon	GRADE DIAMETER OR WAL	L IF ANY		CE- BEN- IENT TONITE FILL FILTER PACK (TYPE/SIZE)
	(inches) THICKNES		((<u>∠)</u> (<u>∠</u>) (<u>∠</u>)
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and the set		Factory		·
00 500 8 4	+ X X	1 P A * 11		
			TION STATEMENT	
ATTACHMENTS (\angle)	I, the undersigned, certify that th		TION STATEMENT	st of my knowledge and belief.
Geologic Log	I, the undersigned, certify that the	his report is complete		st of my knowledge and belief.
· ATTACHMENTS (∠) · · · · · · · · · · · · · · · · · · ·	I, the undersigned, certify that th	his report is complete		st of my knowledge and belief.
The formation of the f	I, the undersigned, certify that the	his report is complete		st of my knowledge and belief. tionu tionu tionu
→ ATTACHMENTS (∠) → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	I, the undersigned, certify that the	his report is complete		st of my knowledge and belief. 1 0 NJ 2 C+A 7 H/TT STATE ZIP

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DWR 188 REV. 11-97

4-

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

and the second	47 -	110.023	11 047-110-023
			Silled well
	STATE OF C	3	the we
UPLICATE	THE RESOURCE		#1679 Do not fill in
6 comply with	DEPARTMENT OF W WATER WELL DI		No. 284930
al requirements	WATER WELL DI	AILLERS REPORT	140. 204000
Notice of Intent No.	47-11	ñ-13	State Well No.
Local Permit No. or Date 23701	11-11		Other Well No.
(1) OWNER: Name		(12) WELL LOG: _ Tota	al depth 410 ft. Completed depth 440 ft.
Address		from ft. to ft. Format	ion (Describe by color, character, size or material)
City	355 old Sorpong	0-275'	yellow day
(2) LOCATION OF WELL (See instru	ictions): Re		1 V loont
County Owne		275-320	Droken up sund -
Well address if different from above		- + ~ 1	16
Township Range Range	4	- 5104	
Distance from cities, roads, railroads, fences, etc.		520-4.50	Clark Strenks of
	1	- 100	1
			STRIVIE
	(a) TYPE OF WORK:		i i \sim
	New Well Deepening	430-44N	CKIY
- HWYIA	Reconstruction		
The will	Reconditioning		
411-70	Horizontal Well	1- V	-C
	Destruction (Describe destruction materials and pro-	1 1V3	12
NOV.	cedures in Item 12)	112	
- Cohimic	(4) PROPOSED USE:	\wedge \vee - (\sim .	2121
< Serie	Domestic	$(\gamma - \alpha (n))$	
5	Irrigation Industrial	E A D	- 202 2
	Test Well	Q-W	
1	Municipal 🛛	All Sales	0
	Other D	90 - (AC)*
WELL LOCATION SKETCH	(Desaribe)	15 -CUA	
(5) EQUIPMENT: (6) GRA	AVEL RACK:	1-0	
	No D Size ALA	A 201	
Cable 🗆 Air 🗆 Diamete	nof bore	CHOIL DI	50000-10
Other D Bucket Racked	from AS 10 440 Ph		NUC 11989
(7) CASING INSTALLED: ((8) PER	POBATIONS:		Hud -
Steel D Plastic K Concrete D Type of	perforation or size of scheen		DEPT. OF
From To Dia Gage or Die	To Costot		INMENTAL MANAGEMENT
ft. ft m Wall K	size	Elaan	
0 4405 160 9	0 440 5×3	· · · · · · · · · · · · · · · · · · ·	and the first state of the second states
	- Allo	··· - ·· ·	· · · · · · · · · · · · · · · · · · ·
(9) WELL SEAL:		_	1955 No. 9 1
Was surface sanitary seal provided?-Yes X No	If yes, to depth ft.		*
Were strata sealed against pollution? Yes 🗌 No [Intervalft.		20 11- 20
Method of sealing		Work started 5-3	19 Completed
(10) WATER LEVELS:	6	WELL DRILLER'S ST	TATEMENT:
Depth of first water, if known	(t tt	This well was drilled under	my jurisdiction and this report is true to the
(11) WELL TESTS:	N N	best of my knowledge and be	Pulle.
Was well test made? Yes 🕵 No 🗌 If yes,	by whom? Daulley	Signed	(Well Driller)
Type of test Pump Bailer Depth to water at start of test C.	At end of test ft.	NAME TILLI	A firm, or corporation) (Typed or printed)
Discharge gal/min after hours	Water temperature	Address 337	Pled MUNI AVEU
Chemical analysis made? Yes 🗌 No 🖵 If yes,	by whom?	City NGDC	ZIP ZIP ZIP
	attach copy to this report	License No.	Date of this report
DWR 188 (REV. 12-86) IF ADDITION	AL SPACE IS NEEDED, USE	NEXT CONSECUTIVELY NUI	ABERED FORM 86 96355

Manad	
FEE DATE.	1/3/17
RECEIPT NO.	BY

Well Log # 2

well we

A.P. NO.047-110-021

NAPA COUNTY HEALTH DEPARTMENT DIVISION OF ENVIRONMENTAL HEALTH

APPLICATION & PERM	IT TO CONSTRUCT A WATER WELL
NAME (Owner)	ADDRESS 2877 Precision DATE 1.3-87
WORK TYPE I PERMIT X DESTRO	ITIONING DEEPENING Y OTHER IOLE
PROPOSED DOMESTIC X IRRIGATION USE TEST WELL OTHER	
Sewage Disposal on site (existing or proposed) Public Distance from well to any part of nearest sewage disposal system (Sketch of site to accompany application) County road setbac	k feet from centerline.
TYPE OF EQUIPMENT TO BE USED: Rotary	Cable Hand Dug Other
 A certificate of current Worker's Compensation Insurance A certificate of current Worker's Compensation Insurance I certify that in the performance of the work for which the subject to the Worker's Compensation laws in California. Real Matter Signature of Applicant 	
CASING CONSTRUCTION: Total Depth & Ft. Depth of Casing Surface Seal to 2.3 Ft. Any Stratas Sealed: Yes No If yes, depth of stratas: From Ft. to Ft./From Ft. to Ft. Perforations: From Ft. to Ft./From Ft. to Ft. Perforations: From Ft. to Ft. to Ft. From Ft. to Ft. WATER LEVELS First Water at 6 0 Ft. Static level at 5 70 Ft. WELL TESTS How performed Yield & GPM with 60 Ft. Drawdown after Yield & GPM with 60 Ft. Drawdown after Annular space depth Ft./Thickness in. Diameter of casing Material Gravel Pack: Yes No Conductor Casing: Yes No Sealed with: Concrete Grout Neat Cement Pudd. Clay Pump Co Driller	WELLLOG (Formation; described by color, size of material, structure) Ft. to Ft. 0-55', clay gravel 10-30', clay gravel 10-180', clay gravel 10
CONTRACTOR'S STATEMENT: 1, 120 Pu	contractor for the above work, hereby certify that the ons covered by this permit, and that the information is true and correct to
the best of my knowledge.	
Live office Pink-Owner Return to Office Orange-cont	raciol Lellen Contractor's Signature

LOW STATE OF CALIFORNIA VIELD DWR USE ONLY - DO NOT FILL IN **:IGINAL** WI le with DWR WELL COMPLETION REPORT STATE WELL NO. / STATION NO. Refer to Instruction Pamphlet Page / of / 430096 No. Owner's Well No. 91 LATITUDE LONGITUDE 8 , Ended Date Work Began _ nviocmenta Local Permit Agency _ APN/TRS/OTHER 7/311 91 Permit Date Permit No. EH P 29088 047-1 10-0 WELL OWNER GEOLOGIC LOG Name_ (SPECIFY) ORIENTATION (/) _____ VERTICAL _____ HORIZONTAL _____ ANGLE ___ 5283 Conama DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE Mailing Address ____ DEPTH FROM Na DESCRIPTION Describe material, grain size, color, etc. Ft. to Ft. WELL LOCATION 5283 8" Old Sonana : 45 Address C asma Grave City_Napa 45 :50 : 75 County_ 50 22 APN Book 47 Page 110 Parcel_ 75 27 Township _ ___ Range _ Section 77 i 140 Clack NORTH Longitude Latitude _____ Santo : 141 190 SEC. SEC MIN 160 141 0 -ACTIVITY (Z) - LOCATION SKETCH NORTH 162 NEW WELL Graze 160: Sano 162 : 12-121 Sonana MODIFICATION/REPAIR 166 100 X Deepen 166 200 Other (Specify) Old Sonama Rol **DESTROY** (Describe Procedures and Materials Under "GEOLOGICLOG" PLANNED USE(S) WES1 WATER SUPPLY X Domestic ENVID Public ONAN Irrigation Industrial AP 47-110-22 "TEST WELL" CATHODIC PROTEC SOUTH Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE. TION OTHER (Specify) DRILLING Rota FLUID . WATER LEVEL & YIELD OF COMPLETED WELL DEPTH OF STATIC 50' (Ft.) & DATE MEASURED 9/20/91 Remp ESTIMATED YIELD . (GPM) & TEST TYPE TEST LENGTH 14 (Hrs.) TOTAL DRAWDOWN 160 (Ft.) TOTAL DEPTH OF BORING _208 (Feet) * May not be representative of a well's long-term yield. TOTAL DEPTH OF COMPLETED WELL 200 (Feet) ANNULAR MATERIAL CASING(S) DEPTH DEPTH BORE FROM SURFACE FROM SURFACE TYPE TYPE (스) HOLE SLOT SIZE INTERNAL GAUGE BEN-SCREEN CON-DUCTOR FILL PIPE CE-DIA. MATERIAL / FILTER PACK (TYPE/SIZE) BLANK OR WALL IF ANY DIAMETER MENT TONITE FILL (Inches) GRADE (Inches) Et. to Ft. Ft. (Inches) Ft. (之) to (ビ) (ビ) 83 5" 200 24 0 40 ur 1 m YA PeaGart 54 4 8 3/4 020-40 200 de 200 24 200 CERTIFICATION STATEMENT ATTACHMENTS (∠) I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief. Geologic Log NAME (PERSON Well Construction Diagram Geophysical Log(s) neurse Soil/Water Chemical Analyses ADDRES Other 8/22/91 48202 DATE SIGNED C57 LICENSE NU ATTACH ADDITIONAL INFORMATION. IF IT EXISTS Signed WELL DRILLER/AUTHORIZED REPRESENTATIV IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM DWR 188 REV. 7-90

Leal Permit No or Date Y 1 - 10 - Y Other Well No (1) OWDER: Name (2) WELL LOG: Total depth I/20. It. Completed dept	QUADRUPLICATE Use to comply with local requirements	THE RESOUR DEPARTMENT OF V	california RCES AGENCY NATER RESOURCES RILLERS REPORT	8/189 H 1629 Do not fill in No. 284929
(1) OWNER: Name (12) WELL LOG: Total depth IMD it Completed depth IMD is the order, character, size or material is the order, character, size or material is the order. (12) WELL (See instruction): (2) LOCATION OF WELL (See instruction): Owner's Well Number	Notice of Intent No	47-110	-07	
Address		r r n c		105 105
City ZIP D T <td></td> <td></td> <td></td> <td></td>				
ContryOvenor's Well Number	City	ZIP	from It. to It. Forma	(Describe by color, character, size or material)
Owney Owney <td< td=""><td></td><td></td><td>5 - 9'0</td><td>raist & boulders</td></td<>			5 - 9'0	raist & boulders
Township Range Section 9 -100 C (1) Distance from etities, reads, raitronds fence, etc. 92.1 40.1 1 40.0 1 80.0 9 1 1 1 40.0 1 80.0 1 1 1 40.0 1 80.0 1 1 1 40.0 1 80.0 1 1 1 40.0 1 80.0 1 <			- 10	/ and a second second
Ditance from cities, roads, railroads, fences, etc. 24, 21, 40, 44, 47, 47, 47, 47, 47, 47, 47, 47, 47			9 - 60 C	lay
(i) TYPE OF WORK New Well Depending Horizontal Well Detruction [] (Decribe Horizontal Well Detruction [] (Decribe Horizontal Well Horizontal Well Detruction [] (Decribe Horizontal Well Horizontal Well	Distance from cities, roads, railroads, fences, etc.	ty mr. Alor H	60 - 180'	green day straks
New Well & Deepening	- chenic ray		- of s	sandstone
Reconstruction Reconstruction Reconstruction Reconstruction Reconstruction Reconstruction Particular Well Destruction Destruction Reconstruction O WM Properties WELL LOCATION SKETCH Prograd WELL LOCATION SKETCH Prograd O WM Prograd O WELL SCALL Reverse Cable All G O WELL SCALL Converted from Seed Prograd Prograd Size Coll Cage or From From Top of vertaxion or size of size OW WELL SEAL: Westrate analysed provided? Westrate analysed provided? Yes K No I If yes, to depth (0) WELL SEAL: Westrate analysed provided? Westrate analysed provided? Yes K No I If yes, to depth (1) WELL TESTS: Westrate analysed provided? Westrate analysed provided? Yes K No I If yes, to depth Type of tot Tot Method destaling Tot Westrate analysed provided? Yes K No I If yes, to depth (1) WELL TESTS:		(3) TYPE OF WORK:		
Reconditioning Horizontal Well Horizontal Well Observation Generative and the servet of the serve	Louis 12	New Well 🔀 Deepening 🗆		V
Horizontal Well				\forall
Destruction [] (Decrine) Destruction			//	
column 12 (a) PROPOSED USE (b) PROPOSED USE - (c) PROPOSED USE - (c) Calle Irrigation Industrial - Trigation - Industrial - Cable Air Other - Other - Cable Air Other - Cable Air Other - Other - Other - Dia Cage or - From 10 Dia Cage or - Off - Other - Date Cage or - Other - Date Cage or - The Oring -	A	Destruction [] (Describe		<u>a</u> GV
(a) PROPOSED USE: Domestic Domestic Irrigation Industrial Test Well WELL LOCATION SKETCH Uber WELL LOCATION SKETCH (b) CRAVEL/ACK: Cable At a (b) CRAVEL/ACK: Cable At a (c) CASING INSTALLED Other Backs The Casing Constrained (c) CASING INSTALLED Other West and acade gainst publicity of performing on size of size (c) WELL SEAL: Was and face samilary wall provided? Yes (L No Hye, to depth	1 DE	destruction materials and pro- cedures in Item 12)	1 51	
Johnstrial Industrial Test Well Industrial WELL LOCATION SKETCH Wengthe WELL LOCATION SKETCH Wengthe WELL LOCATION SKETCH Wengthe Well Industrial GB QUIPMENT: Industrial Botary Reverse Cable Air Weinder of bore Page of bore Cable Air Wain Control Size From Tao To Dia Gage or Type of vertanijon or size of growthe From Tao Wain The Wain The Wain The Wain The Steel Plate Page of vertainion or size of growthe - Wain The Steel Plate Wain The W	2 Chomacto			
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WELL LOCATION SKETCH Besquibe WELL LOCATION SKETCH Besquibe (a) CRAVEL PACK: Person Note: Since Participation of Since Partin Partin Participation Of Since Participation Of Sinc	s Duild		AU	N 125 0
Municipal Other Municipal Other WELL LOCATION SKETCH User the Body of the construction of t	war		<u>0-10</u>	Me -
WELL LOCATION SKETCH Other WELL LOCATION SKETCH (b) GRAVELPACK: Rotary C Reverse (c) GRAVELPACK: Rotary C Reverse (c) GRAVELPACK: Rotary C Bucket (c) GRAVELPACK: Cable Air C (c) DECEPT 0F Other Bucket (c) PERPORATIONS: (c) CASING INSTALLED: (s) PERPORATIONS: AUG (c) Other Bucket Top of performation or size of activet - (c) MELL SEAL: Top of performation or size of activet - - (d) WELL SEAL: Wall H - - (d) WATER LEVELS: Mode Interval ft. - (l) WATER LEVELS: WELL DRILLER'S STATEMENT: 1 1 (l) Well L TESTS: No D If yes, by whom? 1 NAME - - Naditest m	-F		ALD C	~
INDUC DOUNTON SULTATIONS (5) EQUIPMENT: Rotary C Rotary C Rotary C Cable Air Other Backs Cable Other Backs Plastic Contered Type of performation or size of screen From To Dia Gage or From To Mail City Air City	14		AN - CA	
Rotary Reverse Prece Noil Size Cable Air Dameeter of bore Size Differentiation Other Bucket Peaked from Size Differentiation (7) CASING INSTALLED: (8) PERPEDENTIONS: AUG 11989 Steel Plastic Connered: Type of performation or size of strent AUG 11989 From To Dia. Cage or Froin To Stot DEPT. OF Fit Multic How Or the size ENVIRONMENTAL MANAGEMENT - - (9) WELL SEAL: - - - - - (10) WATER LEVELS: No If yes, to depth ft. - - Depth of fits water, if known - - Werk started - 19.5 (10) WATER LEVELS: Depth of fits water, if known - - - 19.5 Completed - 19.5 (11) WELL TESTS: Signed - - - - - 19.5 - 11.4 - - - 10.5 -	WELL LOCATION SKETCH	(Describe)	S-CK	
Cable Air Plannetre of bore - DEFENDENCE Other Bucket Panded from - DEFENDENCE (7) CASING INSTALLED: (8) PERPORATIONS - - Steel Platic Converter Type of performation or size of science - From To Dia. Gage or Type of performation or size of science - (9) WELL SEAL: - - - - - (9) WELL SEAL: - - - - (9) WATER LEVELS: No @ Interval	(5) EQUIPMENT: (6) GR/	VEL PACK:	0-2	
Other Backet Backet from It I	Rotary Reverse	No Size 24		
Other bicket		and some		BRANKE
Steel Plastic From Type of performation or size of order	Other Bucket Packed	from to 13 0 ft	10	
From ft. To ft. Dia Wall Gage or Wall From ft. To Main District Gage or Wall From ft. District Gage or Wall From ft. District Gage or Wall From ft. District Distrego District <thdistrict< t<="" td=""><td></td><td></td><td></td><td>AUC 11000</td></thdistrict<>				AUC 11000
ft ft ft ft size	Steel Plastic Concrete Type of	VIIAD COLV	-	1100 T 1203
(9) WELL SEAL: - Was surface sanitary seal provided? Yes X No I If yes, to depth - (9) WELL SEAL: - Was surface sanitary seal provided? Yes X No I If yes, to depth - (9) WELL SEAL: - Was surface sanitary seal provided? Yes X No I If yes, to depth - (10) WATER LEVELS: - Were strata sealed against pollution? Yes I No I Interval ft. (10) WATER LEVELS: WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. 1 (11) WELL TESTS: Yes No I If yes, by whom? - Was well test made? Yes O No I If yes, by whom? - Depth to water at start of test At end of test NAME				DEPT OF
(9) WELL SEAL: - Was surface sanitary seal provided? Yes X No I If yes, to depth ft. - Were strata sealed against pollution? Yes No I If yes, to depth ft. - Method of sealing (ent_tent_tent) No I Interval ft. Method of sealing (ent_tent_tent) Work started 19 X Completed 19 X (10) WATER LEVELS: Werk started ft. Depth of first water, if known ft. This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. (11) WELL TESTS: Wes wall test made? Yes No If yes, by whom? Air lift X Maxe made? Yes hours Water temperature Air lift X NAME (Well Driller) Drill 1 A genetic (ft. NAME (Well Driller) (Well Driller) (Yell Driller)		a level by E	ENVIR	CNMENTAL MANAGEMENT
(9) WELL SEAL:	130 3 160 6	alle 343		Control 1
Was surface sanitary seal provided? Yes Volume No If yes, to depth 1 Were strata sealed against pollution? Yes No Interval ft. Method of sealing Completed 19 Completed 19 (10) WATER LEVELS: WeLL DRILLER'S STATEMENT: Depth of first water, if known 60 ft. (11) WELL TESTS: Well of the sealing 1 Was well test made? Yes Volume 1 Bailer Air lift Signed 1 NAME Wers at start of test 400 1 Discharge 25 gal/min after 1 hours Water temperature Chemical analysis made? Yes No If yes, by whom? City 1 2 Was electric log made Yes No If yes, by whom? City 1 2 Was electric log made Yes No If yes, by whom? City 1 2 1 2 Was electric log made Yes No If yes, by whom? City 1 2 1 1 1 1 1 1 <t< td=""><td></td><td><u></u></td><td>-</td><td></td></t<>		<u></u>	-	
Were strata sealed against pollution? Yes No Interval ft. Method of sealing (ent too T Work started 19 Completed 19 (10) WATER LEVELS: Were strata sealed against pollution? Were strated 19 Were strated 19 19 (10) WATER LEVELS: Were strate after well completion 60 ft. Were strate after well completion 19 19 (11) WELL TESTS: Was well test made? Yes No If yes, by whom? 1 1 10 1 1 10		If yes to depth 25 6		
Method of sealing Center T Work started 19 Completed 19 19 (10) WATER LEVELS: Werk started 19 Completed 19 10 <td< td=""><td></td><td></td><td></td><td></td></td<>				
Depth of first water, if known 60 ft. Standing level after well completion 40 ft. (11) WELL TESTS: (11) WELL TESTS: Was well test made? Yes No Bailer Air lift Bailer Air lift At end of test 400 Discharge gal/min after Phours Water temperature Chemical analysis made? Yes No If yes, by whom? Chemical analysis made? Yes No If yes, attach copy to this report License No. 48 Vas electric log made Yes No If yes, attach copy to this report License No. 48 Vas electric log made Yes No If yes, attach copy to this report License No. 48 IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM	Method of sealing Clenitor T		Work started 4-13-	_19_2 Completed_4-17-19_20
Standing level after well completion	(10) WATER LEVELS:		WELL DRILLER'S ST	FATEMENT:
(11) WELL TESTS: If yes, by whom? If yes, attach copy to this report If yes, by whom? If yes, attach copy to this report If yes, attach copy to this report If yes, by whom? If yes, attach copy to this report If yes, attach copy to this report If yes, attach copy to this report If yes, by whom? If yes, attach copy to this report If yes, attach copy to			This well was drilled under	my jurisdiction and this report is true to the
Was well test made? Yes No If yes, by whom? NAME NAM			12/11	Pulle.
Depth to water at start of test ft. At end of test ft. Discharge fairs made? Yes No Green If yes, by whom? City City City ZIP	Was well test made? Yes 🐼 No 🗌 If yes,		DI	(Well Driller)
Discharge gal/min after hours Water temperature Address Address I Address ZIP	Type of test Pump \square Bailer Depth to water at start of test $____________________________________$			a, firm, or corporation) (Typed or printed)
Was electric log made Yes No K If yes, attach copy to this report License No. 248677 Date of this report 4-18-84		Water temperature	Address A	Med MONT AUJ
IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM			41101	47 ILV VY
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198 m	47-370-	-011 #.24
QUADRUPLICATE Use to comply with local requirements	THE RESOUR	CALIFORNIA RCES AGENCY BO not fill in WATER RESOURCES No. 384952
Notice of Intent No Local Permit No. or Date 32111		State Well No Other Well No
(1) OWNER: Name Main Address 5767 City Main (2) LOCATION OF WELL (See instruction of the second s	ner's Well Number	(12) WELL LOG: Total depth 185 ft. Completed depth 185 ft. from ft. to ft. Formation (Describe by color, character, size or material)
Dealy have		
All and	Reconditioning Horizontal Well Destruction (Describe destruction materials and procedures in Item 12) (4) PROPOSED USE: Domestic Irrigation	1151-475 (Ball Clay
WELL LOCATION SKETCH	Industrial Test Well Municipal Other (Deseribe)	
Rotary D Reverse D Yes C Cable Air Diann Other Bucket Racke	RAVEL RACK: No Size	- DECENTED
Steel Destic Sonesate Type	of performing or size of service size	- DEPT. OF - DEPT. OF - DEPT. OF - ENVIRONMENTAL MANAGEMENT - ENVIRONMENTAL MANAGEMENT
Were strata sealed against pollution? Yes No Method of sealing	If yes, to depth ft.	
	ft. ft. ft. ft. ft. ft. ft. ft.	WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Signed NAME (Perspn, firm, or corporation) (Typed or printed)
Discharge gal/min after hours Chemical analysis made? Yes No If yes Was electric log made Yes No If yes	Water temperature s, by whom? s, attach copy to this report	Address A This Provide Address

DWR 188 (REV. 12-86)

86 96355

			ay be	used to view	and complete	this form.					ed to compl	lete, save,	and reus	e a saved	form.	
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Page	age of Neter to instruction in Refer to instruction in						,10 m Pa	Pamphiel State Well Number/Site Number								
Owner's							No.	· e02308	832	2						
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Orie	Intation	٥ve	ortica		izontal	OAngle	Speci	fy		Name N	ladonna	Estates		Owner		
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Feet	to Fe	eet		Desc		gram size,	COIDI, EIC		-					ocatio	_	
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				Perforation	n				-							Q Deepen
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					OC Napa Col	unty Plann Inonmenta	al 20.		_	South O Vapor Extraction						
					8 EII				-	rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete. O Other						
									_	Water L			of Com	oleted V	Veii	
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 									4	Depth to	Static					,
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Total D	epth of C	omple	ted V	/vell <u>353</u>			_ Feet				be repres					
					Cas	ings						1		Annul	ar Nia	iterial
Sur	from face to Feet	Boreh Diame (Inche	ter	Туре	Mate	rial 1	Wall hickness (Inches)	Outside Diameter (Inches)	r	Screen Type	Slot Size if Any (Inches)	Su	h from face to Feet	Fi	11	Description
0	58	11	+	Blank	PVC Sch. 40		R21	5				0	58	Cement		cement / Vol Clay
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153	353	8.5		Screen	PVC Sch. 40)	R21	5		Ailled Slots	0.032	∦	ļ			
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	Well Con		on Di	iagram		Name P	<u>Pulliam V</u>	Vell Exp	lora	ation Inc						
	Geophys	ical Lo	g(s)	-			Cantelov	v Road	018(Vaca	aville		<u> </u>		95688
· · · ·		er Cher	nica	l Analyses		Signed		Address	1	in		City	9/7/20		ate 08-50	Zip
	Other	nation if	it exis	ts.		5.9.100				all Contractor			Date Sig	_		cense Number
71110011000															_	

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

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QUADRUPLICATE © Use to comply with local requirements		ALIFORNIA CES AGENCY VATER RESOU	IRCES		= Y- 30 Do not fill in 03180
Notice of Intent No.	WATER WELL D	RILLERS REI	PORT	State Well No	,
Cocal Fermit No. or Date			······	Other Well No	
(1) OWNER: Name		(12) WELL L	OG: Total depth_	150 ft. Depth of co	mpleted well <u>150</u> ft.
Address		from ft. to ft. -3	Formation (Describe Topsoll	e by color, character,	size or material)
City (2) I OCATION OF WELL (2)	Zip	3 - 14	Brown cl	ay	· · · · · · · · · · · · · · · · · · ·
(2) LOCATION OF WELL (See instru- CountyQwner's	ctions): <u>47-110-1</u> Well Number <u>47-110-1</u>			own elay	
Wen address in different from above	Old Bonoma Rd	31 - 50	Blue cle		
TownshipRange	Section	<u>50 - 61</u>	Broken r		stringers
Distance from cities, roads, railroads, fences, etc		61 -150	Broppi cl	ay	-
		-	<u> </u>	·····	۶
		<u> </u>		······	······································
· · · · · · · · · · · · · · · · · · ·	(3) TYPE OF WORK:	A		·······	
1 1	New WelF Deepening		X		· · · · · · · · · · · · · · · · · · ·
	Reconstruction	// -		······	· · · ·
Y is marked	Reconditioning	<u> </u>	\mathbb{Q}	>	·····
	Horizontal Well	1911 -	GAA		
	Destruction [] (Describe destruction materials and	<u> </u>	<u></u>	$\overline{\Omega}$	
	(4) PROPOSED USE				<u> </u>
×	(4) PROPOSED USE?		<u>ب</u>	<u>_~~</u>	
	Irrigation	1-1-	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<i>ĥ</i>	·····
	Industrial	OL V	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
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Sand Sand Sand Sand Sand Sand Sand Sand	Stock	<u> </u>	1100	<u> </u>	
	Municipal			la	· · · · ·
WELL LOCATION SKETCH	Other 🛛 🗌	× -9	<u>×</u>	- alar	· -
(5) EQUIPMENT: (6) GRAVE	PACK:	<u> </u>		L.	
	Sizea		<u> </u>	Y D #	
Cable Air Diameter of b Other Bucket Recket Recket	$\frac{1}{0}$ $\frac{1}{21}$	$\mathbb{A} \to \mathbb{A}$	<u> </u>	of to.	`
	utions machine		as l	J Z	
Steel Plastic Concrete Type of perfo	ration or size of screep	<u> </u>	S N	- ND	
From To Dia. Gage-or From	D To Kasiot			Ju s	······································
ft. ft m. Wall ft.	ft. size	1	rely	-	
0 30 6 30 ×	156 1/8 x	}			· · · · · · · · · · · · · · · · · · ·
	17/1/1/ .		······································		
(9) WELL SEAL: Was surface sanitary seal provided? Yes	If yes, to depth 21 ft.				· · · · · ·
	Jantervalft.	- *			
Method of sealing		Work started	122 1978	Completed	19 78
(10) WATER LEVELS: 50 ft.		WELL DRILLER'S STATEMENT:			
Standing level after well completion	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.				
(11) WELL TESTS:	n	SIGNED	161 31 911		
Was well test made? Yes 🗌 North If yes, b Type of test Pump 🗋 Bailer	y whom? Driller Air lift 🗌	NAME Banks		Driller) Drill 771 nor	Tno.
Depth to water at start of testft.	NAME <u>Doshi</u> 5365 ^{(P}	erson, firm, or corpor	ation) (Typed or print		
Discharge gal/min after hours	Valle		~J~ 44.55 Y	94590	
Ghemical analysis made? Yes D No 🔀 If yes, by	29400	า้า	57	25/78	
Was electric log made? Yes No. If yes, at	tach copy to this report	License No.	<u></u>	Date of this report	

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DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM