

Environmental Health Department

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January 27, 2020

Kusalakari Corporation 9698 S. Priest Road French Camp, CA 95231

RE: Soil Suitability/Nitrate Loading Study and Addendum

9698 S. Priest Rd, French Camp APN 193-220-15, SR0081180

The San Joaquin County Environmental Health Department (EHD) has reviewed the Soil Suitability/Nitrate Loading Study (SSNL) dated September 4, 2019 and its addendum dated November 20, 2019 for the above noted location and has the following comments for your consideration.

The SSNL Study was prepared to determine the suitability of the above noted location for onsite wastewater treatment system (OWTS) usage and the potential impact of nitrate to groundwater for existing residence and the proposed development project. The proposed development project includes Monastery/Meditation Retreat Center and functions that will generate 1,041.00 gallons of waste water per day from the following activities:

- a. Wastewater generated from 2 volunteers daily.
- b. Wastewater generated from 3 bedroom residence daily.
- c. Wastewater generated from 10 congregants on weekdays and 40 congregants on weekends (no kitchen use).
- Wastewater generated from 185 congregants with kitchen use 4 times per year.
- e. Wastewater generated from 47 retreat guests with overnight stay 65 days per year.
- f. Wastewater generated from 2 visitors 65 days per year.

The estimated nitrate loading from the existing and proposed usage shows a potential for nitrate impact to groundwater above water quality objectives. According to SSNL Study, the estimated nitrate loading from this existing and proposed OWTS usage is 14.47 mg/L-N. In addition, the onsite water well already shows an elevated Nitrate-Nitrogen level of 22.6 mg/l. The drinking water standard for Nitrate-Nitrogen is 10.0 mg/l.

Based on the information provided, the EHD can make the following findings:

- 1. The SSNL Study supports the suitability for OWTS usage with the following conditions:
 - a) The potential impact of the Nitrate to groundwater shall be mitigated. OWTS shall utilize supplemental treatment and meet performance requirements in Section 10.9 of Regional Water Quality Control Boards OWTS Policy (Boards Policy).
 - b) A Registered Civil Engineer shall submit complete engineered design plan to EHD for approval prior to issuance of building permit. Fee will be based on the current fee schedule at time of payment.
 - c) The two percolation tests conducted at the site indicate the soil percolate wastewater at rate of 2.38 and 2.19 minute per inch. This rate requires a 20 foot separation between bottom of dispersal system and ground water. Historical data show ground water to be at 14 feet in 1983 and 23 in 1993.
 - d) Annual permit is required. Fee for annual operating permit is due at time of OWTS permit application.

- e) To monitor the effectiveness of the supplemental treatment system, quarterly sampling of the effluent and under leach field is required. The first sampling shall be done six (6) months after the OWTS installation. Sampling results shall be submitted to EHD for review. The EHD may reduce the sampling frequency after one year of sampling.
- 2. The data indicates the onsite water well has elevated level of nitrate and may not be a suitable source for the potable water supply for new development. A potable water supply that can provide a consistent source of safe and clean water adequate for human consumption, cooking, and sanitary purposes for the proposed new home needs to be established prior to the issuance of building permits (2016 CA Plumbing Code, Section 601.2).
- 3. The provision of a reliable potable water source and documentation that the parcel can accommodate the OWTS and 100% replacement area for this development project within the required setbacks from any water well must be submitted prior to the issuance of a building permit. The site map must be drawn to scale and must show the location of all buildings, driveways, OWTS, the OWTS replacement areas and any water wells within 200 feet of the proposed OWTS and replacement areas.

Any deviation from the above development project or the above-mentioned OWTS usage shall require a new Soil Suitability and Nitrate Loading Study.

If you have any questions please contact Michael Kith, REHS, Program Coordinator, at (209) 468-3444 or mkith@sjgov.org.

Michael Kith, REHS Program Coordinator

cc: Brian McNamara

Abby Rocco, Live Oak Geo Environmental, Inc.

ADDRESS	9698 S.		rd		PA# 1800171
APN	193-22	0-15			_SU#
PERC TEST DATE	PARCEL OR LOT#.	Perc Hole#	DEPTH (feet)	PERC RATE (min/inch)	COMMENTS
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8-7-19	143-220-5	2	3.49	2.19	Dust 11 c.
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DATE SAMPLED	TYPE OF WELL	NITRATE mg/L	DBCP ug/L	EDB ug/L	COMMENTS (other address for well sampled)
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NITRATE LOADING RESULT (mg/L - N)	12-94	SR#: SR	0081180		SR Date: 9-23-79
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SAN JOAQUIN COUNTY ENVIRONMENTAL HEALTH DEPARTMENT SERVICE REQUEST

Type of Business or Property			FACILITY ID #			SERVICE REQUEST #		
Type of business of Property			I AC				SR 008 1180	
						3//0	0011	80
Owner / Operator Kusala	akari Corpor	ation				С	HECK if B	LLING ADDRESS X
FACILITY NAME Kusalakari Property								
SITE ADDRESS 9698 Street Number	S. Prie	est Rd.	Street Name		Fr	ench Ca	ımp	95231 Zip Code
HOME or MAILING ADDRESS (If Different from Site Address) C/O Brian McNamara 58793 Street Number Road 225								
North Fork STATE CA ZIP 93643								
PHONE #1	Ехт.	APN#			LAND USE A	PPLICATION	#	
(415) 293-9192		1	93-220-15			PA-180	00177	
PHONE #2	Ехт.				BOS DISTRI	СТ	L	OCATION CODE
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	CONTR	ACTO	R / SERVIC	ERE	QUESTO	<u>JR</u>		
Requestor Abby Racco						С	HECK if B	LLING ADDRESS
Business Name Live Oak G	ieoEnvironm	nental			(2	one# 209) 369	9-0375	Ехт.
Home or Mailing Address 40	7 W. Oak S	t.			FAX	(#		
CITY Lodi					STATE CA	١	ZIP 952	240
BILLING ACKNOWLEDGE acknowledge that all site and/or or activity will be billed to me or	r project specifi	ic Environ	NMENTAL HEALT					
I also certify that I have prepare COUNTY Ordinance Codes, Star				performed	d will be dor	ne in accor	dance w	ith all SAN JOAQUIN
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PROPERTY / BUSINESS OWNER If APPLICANT is i		R / MANAGE			RIZED AGENT		ject.	Manager
AUTHORIZATION TO REL		=	2		-			
above site address, hereby au	uthorize the rel-	ease of an	y and all result	s, geotec	hnical data	and/or en	vironme	ptal/site assessmen
above site address, hereby au information to the SAN JOAQUIN provided to me or my representa	n County Envi ative.	IRONMENTA	AL HEALTH DEPA	ARTMENT	as soon as i	t is availab	ole and a	CEIVED
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ACCEPTED BY:			Емрі	OYEE#:			DATE:	abalia
Assigned to:	SHME	D	Емрі	OYEE#:			DATE:	1/3/11
Date Service Completed (if alr	ready completed)):	4	SEF	RVICE CODE:	723		P1E: 2602
Fee Amount: \$60%		mount Pa	id \$7 608.0		Paym	ent Date	9/23	3/19
Payment Type	Invoice #		Check	# 34	-3		Receive	ed By:

Re: PA-1800177 (UP)

Kusalakari Neighborhood Religious Assembly.

9/19/2019

Hello Giuseppe,

Enclosed please find the Soils Suitability and Nitrate Loading Study performed by Live Oak GeoEnvironmental, to be routed to the EHD. Also enclosed are a check for \$608 for EHD fees, and the required Service Request.

Regards,

Brian McNamara

Project Manager

LIVE OAK GEO ENVIRONMENTAL, INC.

407 W. Oak St., Lodi, CA 95240 . (209) 369-0375 . logelodi.com

November 20, 2019 Project Number: 1938

Michael Kith, Lead REHS San Joaquin County Environmental Health Department 1868 E. Hazelton Ave. Stockton, CA 95205

Regarding: Addendum to Nitrate Loading Study

Kusalakari Property

9698 S. Priest Rd., French Camp, CA Original report dated September 4, 2019

Mr. Kith:

Based on our phone conversation on November 15, we have prepared this addendum to the above Nitrate Loading Study.

During our call, you indicated that an average daily flow rate of 10 gal/person should be used for all day visitors to the religious facility. This is the rate typically requested by the Environmental Health Department for a church with a kitchen. We originally used a lower rate because the proposal before the County restricts the use of the kitchen to meditation retreats and certain other events, and daily visitors are not permitted to make use of it. Nevertheless, we have revised the calculation to include the rate of 10 gal/person as requested.

You also stated that the congregants at events should be listed as 225 rather than the 200 presented in our original report. When I spoke with the Project Management team concerning your comments regarding our report of September 4, I was informed that during a meeting with County staff on June 26 the number of congregants attending special events was amended to be 185 based on the amount of parking to be provided. Consequently, we have included the new value of 185 congregants per event in the revised calculation below.

Revised Nitrate Loading Calculation

As in the previous report prepared by our office, the method utilized for the nitrate loading analysis is based on a mass balance formula discussed in a published paper by Hantzsche and Finnemore (1992). The Hantzsche and Finnemore equation is a conservative approximation of ground-water nitrate-nitrogen concentration resulting from the combined effect of on-site sewage disposal systems and percolating recharge waters.

LOGE 1938: Kusalakari NLS Addendum November 20, 2019

For this addendum, most of the variables remain unchanged from the original report. The quantity and quality of wastewater generated have been corrected as discussed above. The new average daily flow calculation is presented below:

Average Daily Flow Calculation

Use	Units	Rate	Subtotal	Adjustment	Average Daily Flow
Volunteers (daily)	2	13 gal/person/day	26 gpd	None	26 gpd
Residence	3 BR	140 gal/BR/day	420 gpd	None	420 gpd
Congregants, weekdays (no kitchen use)	10	10 gal/person	100 gpd	5/7, 300/365	58.7 gpd
Congregants, weekends (no kitchen use)	40	10 gal/person	400 gpd	2/7, 300/365	93.9 gpd
Congregants, events (4 per year, some kitchen use)	185	10 gal/person	1,850 gpd	4/365	20.3 gpd
Retreat guests (overnight on-site)	47	50 gal/person	2,350 gpd	65/365	418.5 gpd
Retreat day visitors	2	10 gal/person	20 gpd	65/365	3.6 gpd
Total					1,041 gpd

Adjustment factors convert calculated flow into average daily flow over a year. This needs to be taken into account since attendance varies by day of the week, and retreats take place only part of the year. The factors 2/7 and 5/7 refer to days per week. The factors 65/365 and 300/365 refer to days per year. No adjustment factor is used for a residence since it is continuously occupied.

The new weighted average nitrate concentration is calculated as follows:

LOGE 1938: Kusalakari NLS Addendum November 20, 2019

Weighted Average Concentration Calculation

Use	Average Daily Flow	Estimated Waste Water Quality	Weighted Average Product		
Volunteers, non-resident (14 hr. shift, daily)	26 gpd	85 mg/L-N	2,210 gpd-mg/L-N		
Residence	420 gpd	35 mg/L-N	14,700 gpd-mg/L-N		
Congregants, weekdays (no kitchen use)	58.7 gpd	85 mg/L-N	4,989.5 gpd-mg/L-N		
Congregants, weekends (no kitchen use)	93.9 gpd	85 mg/L-N	7,981.5 gpd-mg/L-N		
Congregants, events (4 per year, some kitchen use)	20.3 gpd	85 mg/L-N	1,725.5 gpd-mg/L-N		
Retreat Guests (overnight on-site)	418.5 gpd	35 mg/L-N	14,647.5 gpd-mg/L-N		
Retreat Day Visitors	3.6 gpd	85 mg/L-N	306 gpd-mg/L-N		
Totals	1,041 gpd		46,560 gpd-mg/L-N		
Weighted Average Concentration:	46,560 gpd-mg/L-N / 1041 gpd = 44.7 mg/L-N				

The new nitrate loading calculation is attached to this letter. The assumptions of the calculation are as follows:

Assumptions for Nitrate Loading Calculation

Variable	Value	Units	Description
Q	1,041	gpd	Effluent flow rate
Nw	44.7	mg/L-N	Effluent stream concentration
A	5.0	acres	Site area
Nb	0.3	mg/L-N	Concentration of rain
d	0.25	constant	Denitrification factor
R	3.64	inches per year	Recharge rate of rainfall
W	2.8	inches per year	Uniform waste water loading (calculated)

DAVID J. WELCH

NO. 653

CERTIFIED

HYDROGEOLOGIST

TE OF CAL

LOGE 1938: Kusalakari NLS Addendum

November 20, 2019

The details of the nitrate loading calculation are included in the attached plate. The results of the calculation are presented in the following table:

Table 6. Result of Nitrate Loading Calculation

Variable	Value	Units	Description
Nc	14.7	mg/L-N	Long-term average concentration of percolating effluent

The US EPA recommended MCL for nitrate in drinking water is 10 mg/L-N. In a worst-case situation, the maximum buildup of nitrates in the aquifer from the use of septic systems on the Site is predicted to be 14.7 mg/L-N. The result of the nitrate loading estimate exceeds the maximum drinking water standard.

For greater protection of the ground water, it is recommended that only shallow septic systems utilizing leach lines or filter beds be installed rather than deeper sumps. We understand that recent San Joaquin County Environmental Health Department policy has been to evaluate each project on a case-by-case basis to determine whether additional measures to mitigate nitrate should be employed.

SIONAL GEO

DAVID J. WELCH

NO. 2151

CERTIFIED

ENGINEERING GEOLOGIST

Please feel free to contact us with any questions about the revised calculation.

Sincerely,

Live Oak GeoEnvironmental, Inc.

Abigail Racco, REPA

David J. Welch, CEG, CHG, PGP

J. Weldi, CLG, CHG, FGF

58793 Road 225

Brian McNamara

North Fork, CA 93643

Kusalakari Corporation 9698 S. Priest Rd. French Camp, CA 95231

Attachment:

CC:

Plate 1. Revised Nitrate Loading Calculation

Plate 1. Kusalakari Property Nitrate Mass Balance Calculation

Nitrate Loading Calculations:

Variable	<u>Value</u>	<u>Units</u>	<u>Description</u>
Q	1041.0	gallons per day	Effluent flow rate from report
Nw	44.7	mg/L-N	Effluent stream concentration from report
Α	5.00	acres	Site area from report
Nb	0.3	mg/L-N	Concentration of rain water from report
d	0.25	constant	Denitrification factor from report
R	3.64	inches per year	Recharge rate of rainfall from report (evapotranspiration method)
W	2.8	inches per year	Uniform waste water loading for site calculation result
Nc	14.7	mg/L-N	RESULT: Long-term average concentration of percolating effluent

Find Variable (W):

2.8 in/yr (site) = 1,041 gal/day x (1 cu-ft / 7.48 gals) x (365 days/ 1 year) x (1 acre / 43,560 sq-ft) x (12 in / 1 ft) x (1 site / 5 acres)

Hantzsche-Fennemore Equation (Nc):

$$N_c = \frac{WN_w(1-d) + RN_b}{W+R}$$

 $14.74 \text{ mg/L-N} = ((2.8 \text{ in/yr} \times 44.7 \text{ mg/L-N} \times (1 - 0.25)) + (3.64 \text{ in/yr} \times 0.3 \text{mg/L-N})) / (2.8 \text{ in/yr} + 3.64 \text{ in/yr})$

Assumptions:

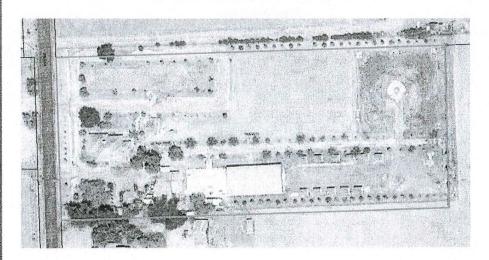
- 1. Total nitrogen concentration of influent waste stream is 44.7 mg/L-N. If different influent concentrations exist, use weighted average
- 2. Fraction of nitrate-N loss due to denitrification in the soil is 25%.
- 3. Estimated deep percolation of rainfall is 3.64 in/yr.
- 4. Background nitrate-N concentration of rainfall is 0.3 mg/L-N.



LIVE OAK GEO ENVIRONMENTAL, INC.

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SOIL SUITABILITY/NITRATE LOADING STUDY KUSALAKARI PROPERTY 9698 S. PRIEST RD. FRENCH CAMP, CALIFORNIA



Prepared for:

Brian McNamara 58793 Road 225 North Fork, CA 93643 & Kusalakari Corporation 9698 S. Priest Rd. French Camp, CA 95231

> September 4, 2019 Project No. 1938

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SEP 23 2019

ENVIRONMENTAL HEALTH PERMIT/SERVICES



LIVE OAK GEO ENVIRONMENTAL, INC.

407 W. Oak St., Lodi, CA 95240 * (209) 369-0375 * logelodi.com

SOIL SUITABILITY/NITRATE LOADING STUDY KUSALAKARI PROPERTY 9698 S. PRIEST RD. FRENCH CAMP, CALIFORNIA

Prepared for:

Brian McNamara 58793 Road 225 North Fork, CA 93643 & Kusalakari Corporation 9698 S. Priest Rd. French Camp, CA 95231

Prepared by:

Abigail Racco, REPA

David Welch, CEG-2151, CHG-653, PGP-1049

September 4, 2019 Project No. 1938

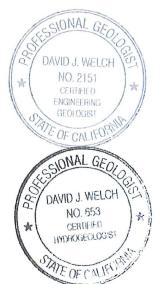


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SOIL SUITABILITY STUDY

Introduction

Live Oak GeoEnvironmental, Inc. (Live Oak) was contracted by Brian McNamara to conduct a Soil Suitability Study and Nitrate Loading Study for the property located at 9698 South Priest Road, French Camp, California (Plate 1).

The Soil Suitability Study and Nitrate Loading Study are combined under this report cover and presented as two sections of this report. The formatting of the report has been designed to follow the recommendations of the San Joaquin County Environmental Health Department as described in its Soil Suitability Study Requirements Checklist and Nitrate Loading Study Requirements Checklist.

The Soil Suitability Study and Nitrate Loading Study were conducted to determine whether the soils are suitable for use with a septic system, as well as to estimate if the use of septic systems will impact ground water quality. The study was performed according to the requirements of Section 9-1105.2(d) of the San Joaquin County Development code.

Proposed Development

According to the information on file at the San Joaquin County Community Development Department, the Kusalakari Corporation intends to develop "a Neighborhood Religious Assembly (maximum 200 persons) in the Buddhist Theravada tradition. The facility will consist of Monastic facilities and functions offering meditation retreats and religious instruction for laypersons."

Specifically, the project consists of "a Monastery/Meditation Retreat Center ... to be built in four phases over seven years. Phase One, to be completed in 18 months, includes the construction of a 600 square foot maintenance shed, the conversion of an existing 1,804 square foot barn into a reception area and office, the conversion of an existing 5,000 square foot barn into an ordination hall, and the construction of a 5,900 square foot assembly hall. Phase Two, to be completed in three years, includes the construction of a 3,600 square foot addition to the ordination hall for kitchen and dining facilities, a 1,650 square foot residential unit, and a 1,500 square foot residential unit. Phase Three, to be completed in five years, includes the construction of a 1,650 square foot residential unit. Phase Four, to be completed in seven years, includes the construction of a 1,650 square foot residential unit." A site plan is presented as Plate 2.

Site Description

The Site is defined as Assessor's Parcel Number (APN) 193-220-15, 5.0 acres in size. It is located at 9698 South Priest Road, French Camp.

The Site is currently developed with a house, barn, storage building, and 11 small sheds. A domestic well and septic system serve the Site; a second well is currently inoperable (Plate 3).

The elevation of the Site, according to a United States Geological Survey topographic map, is approximately 20 feet above mean sea level. The Site is relatively flat (Plate 4).

According to the San Joaquin County Community Development Department (www.co.san-joaquin.ca.us), the Site is zoned AU-20, Agriculture-Urban Reserve. This zoning designation "is intended to retain in agriculture those areas planned for future urban development in order to facilitate compact, orderly growth and to assure the proper timing and economical provision of services and utilities."

Existing and Proposed Septic Tank Usage

Existing Septic System

A septic system serves the existing house on the Site (Plates 2 and 3); this system will be destroyed prior to construction of the new parking area, according to the Site Plan (Plate 2).

Proposed Septic System

Kusalakari Corporation plans to build four new septic systems to serve the proposed new retreat residences and expanded facility.

On-Site Septic Permit History

The San Joaquin County Environmental Health Department septic permit files were searched for the Site address. Three septic permits were identified:

- December 1975 permit for new septic system at mobile home. The system utilized a 1,200-gallon tank and two 80-foot leach lines.
- May 1988 permit for destruction of septic system.
- January 1990 permit for new septic system at house. The system utilized a 1,600-gallon tank and three 80-foot leach lines.

These permits have been included in Appendix 4 of this report.

Existing Septic Tank Usage in the Vicinity

To estimate the septic system usage in the area, our office counted septic systems that exist within approximately one square mile surrounding the property. Air photo imagery from Google Earth was used. Each building cluster on the photo was assumed to have one septic system. Using this method, it is estimated that at least 130 septic systems per square mile are located in the immediate vicinity of the Site.

The Site is located within an area of rural residences and orchards; a few commercial/industrial properties are located one-third of a mile to the west.

Septic Permit History in the Vicinity

Based on a review of septic permits on file at the San Joaquin County Environmental Health Department for nearby properties, most septic systems in the area utilize leach lines; one utilized leach lines and sumps. The septic permits can be found in Appendix 4 of this report.

Expected On-Site Maximum Septic Tank Usage

Maximum expected septic tank usage on the Site would be from the current residents and future guests of the Site. Septic system design should be based on the San Joaquin County *On-Site Wastewater Treatment Systems Standards* (2017) or other engineering recommendations.

Ground Water Information

Depth and Gradient

Live Oak reviewed ground water elevation information available from the San Joaquin County Flood Control and Water Conservation District to determine the ground water levels near the Site. Data from spring and fall of 2016 were the most recent available from this source. According to an analysis of these maps (Plates 5 and 6), ground water elevation in the area is approximately five to 10 feet below mean sea level. The ground-water flow is to the north or north-northeast at a rate of approximately four feet per mile.

Given that the ground elevation of the Site is approximately 20 feet above mean sea level, the depth to water below the Site is estimated to be approximately 25 to 30 feet. The Well Completion Report for the new domestic well on the Site (Appendix 4) indicates that the static water level beneath the Site was 32 feet in October of 2015.

San Joaquin County experienced its highest recent ground-water levels in 1983 and 1999 (Plates 7 and 8). Based on review of maps of ground-water levels for spring of

those years, depth to water was approximately 14 feet in 1983 and 23 feet in 1999 (San Joaquin County Flood Control and Water Conservation District, 1983 and 1999).

Potential Ground Water Contamination Issues

The Soil Suitability Study is not intended to be an investigation into ground-water contamination sources, and no such investigation was conducted. Many sources can contribute to ground water contamination, including leaking underground storage tanks, agricultural activities, dairies, septic systems, and storm water infiltration. Agricultural activities and the use of septic systems in the area are known ground water contamination sources with the potential to impact the Site.

Two common ground-water contaminants in San Joaquin County are nitrate and dibromochloropropane (DBCP). Live Oak reviewed the San Joaquin County Environmental Health Department's maps of *Nitrate – Land Use Data* and *DBCP – Land Use Data* dated February 20, 2019. According to the nitrate map (Plate 9), two wells within a half-mile radius of the subject Site have been tested. Nitrate was detected in one well at a concentration between 0.1 and 5.0 mg/L-N, and in the other well at a concentration between 5.1 and 10 mg/L-N. One well within a half-mile radius of the Site was tested for DBCP; no DBCP was detected (Plate 10). The Maximum Contaminant Level (MCL) set by the US EPA for nitrate is 10 mg/L-N; the MCL for DBCP is 0.2 μg/L.

On-Site Wells

Two domestic wells are currently located on the Site. One well serves the house and monastery; the other is currently inoperable.

Two well permits were identified for the Site from among the files of the San Joaquin County Environmental Health Department:

- April 2012 permit for pump replacement at domestic well near house.
- June 2015 permit for new domestic well. The permit indicates that the well is 300 feet deep, with a grout seal at 200 feet. The Well Completion Report indicates that the soil strata encountered were primarily clay and sand.

These permits have been included in Appendix 4 of this report.

Water Sample

Because the new domestic well is currently inoperable, Live Oak collected a water sample from the older domestic well on the Site on August 2, 2019. The sample was analyzed for nitrate and dibromochloropropane (DBCP) per San Joaquin County Environmental Health Department policy.

As required by the laboratory, the sample was collected in a plastic container and two glass vials for nitrate and DBCP analysis, respectively. Trip blanks were also utilized. The sample was placed on ice and transported under chain of custody to FGL Environmental, Stockton.

Nitrate was detected in the sample at a concentration of 22.6 mg/L-N. DBCP was not detected. The laboratory analytical results are attached as Appendix 5 of this report.

Nitrate is commonly detected in shallow ground water aquifers of the Central Valley. Application of fertilizers, livestock waste, and untreated septic tank waste can all contribute to nitrate in ground water. Nitrate is mobile and tends to accumulate in shallow ground water zones. Based on work in the Sacramento Valley from the early 1900s, it is estimated that under "natural" conditions, ground water contains nitrate at concentrations no more then about 3 mg/L-N. Nitrate may be increasing in areas with concentrations of 5.5 mg/L-N or more (Hull, 1984). The US EPA has set the Maximum Contaminant Level (MCL) for nitrate at 10 mg/L-N.

The agricultural properties to the east of the Site are mainly orchards; elevated nitrate levels in the ground water may derive in part from fertilizer application on these properties.

Although nitrate is a naturally-occurring compound necessary for plant growth, it can cause health problems when present at high levels in drinking water. The most common health effect of nitrates in water is methemoglobinemia, or blue baby syndrome, which results in reduced oxygen supply to vital tissues. Pregnant women and certain others can also develop methemoglobinemia. Symptoms include a bluish color of the skin, as well as headache, dizziness, weakness, and difficulty breathing. Ingestion of high levels of nitrates over time can also lead to gastric problems.

DBCP is a nematocide and soil fumigant for vegetables and grapes. It is known to cause male reproductive effects and is classified as a probable human carcinogen. Most domestic use of DBCP was discontinued in 1977 through 1979. The US EPA set the MCL at 0.2 parts per billion (ppb, equivalent to $\mu g/L$) because it believes that given present technology and resources, this is the lowest level to which water systems can reasonably be required to remove this contaminant should it occur in drinking water. The Maximum Contaminant Level Goal (MCLG) for DBCP is zero.

Soil Profile and Geologic Information

The Site is depicted on the *Geologic maps of the Sacramento-San Joaquin Delta, California* (Atwater, B.F., 1982). The Site is depicted within a map unit of the Modesto formation, described as "loose sand and silt, chiefly fluvial" (Plate 11).

The surface and near surface soils located at the Site are reported by the USDA Web Soil Survey to be composed of Honcut sandy loam, Tinnin loamy coarse sand, and Veritas fine sandy loam (Plate 12) (USDA, 2019). The table below presents some selected properties of these soils:

Table 1. Selected Properties of On-Site Soils (USDA, 1992)

Soil Name and Map Symbol	Depth (in)	Unified Soil Classification	Salinity mmhos/cm	Soil Reaction pH	Perme- ability (in/hr)	Septic tank absorption fields
Honcut sandy loam, 0-2% slopes, 175	0-21: 21-60:	Sandy loam; SM Coarse sandy loam sandy loam; SM	<2 <2	6.1-7.3 6.1-7.8	2.0-6.0 2.0-6.0	Slight
Tinnin loamy coarse sand, 0-2%	0-28: 28-53: 53-75:	Loamy coarse sand; SM Loamy coarse sand, loamy sand; SM Loamy coarse sand,	<2 <2 <2	6.1-7.8 6.1-7.8 6.6-8.4	6.0-20 6.0-20 6.0-20	Severe: poor filter
Veritas fine sandy loam, 0-2%	0-15: 15-54:	loamy sand, sand; SM Fine sandy loam; SM, SC-SM Sandy loam, fine sandy	<4 <4	7.4-8.4 7.4-8.4	2.0-6.0	Moderate: flooding, cemented
slopes, 266	54-70:	loam; SM, SC-SM Cemented				pan

Note: The table descriptions do not necessarily reflect site-specific soil properties. See description of the map unit for composition and behavior characteristics of the map unit.

Soil Borings

On August 2, 2019, Live Oak excavated two shallow soil borings near the proposed septic disposal areas of the Site for the purpose of conducting percolation tests. The borings were four inches in diameter, 3.26 and 3.49 feet deep, and were excavated by hand auger (Table 2). The locations of the borings are indicated on Plate 13.

The soil in the borings was similar to that described by the Soil Survey. Sandy silt was encountered to the full depth of each hole. The soil log is presented on Plate 14.

Discussion of Soil Lithology

Based on the soil observed in the boring, there appears to be good potential for percolation in the shallow soil zone. Sandy soils generally have a much greater potential for percolation than fine-grained or cemented soils. However, a percolation test is the only accepted method for determining the suitability of the soils for a septic disposal area. Percolation test results are discussed in the following section.

Percolation Tests

Two shallow percolation tests were conducted near the proposed septic disposal areas of the Site. The soil borings discussed above were used for the percolation test holes. Percolation test procedures conformed to San Joaquin County Environmental Health Department policy.

Preparation and Presaturation of Percolation Test Holes

After the borings were advanced by hand auger and the soil logged, the test holes were completed for the percolation testing. Approximately two inches of pea gravel were placed in the bottom of each open soil boring, followed by a 2.0-inch diameter PVC pipe with perforations on the bottom. Pea gravel was then used to backfill a few inches of the annular space.

Live Oak presaturated the percolation test holes approximately 24 hours prior to the percolation testing. Each hole was filled with water to a height of 12 inches above the bottom of the boring for the presaturation. On the day of testing, the holes were found to be intact and dry.

Percolation Test Procedure

Live Oak conducted the percolation tests for the borings on August 7, 2019. Based on initial percolation rates observed, one-hour tests were selected. Water level measurements were taken every 10 minutes during this one-hour period. The last 10 minutes of the test were observed by Naseem Ahmed, Registered Environmental Health Specialist at the San Joaquin County Environmental Health Department.

An electronic well sounder with a depth accuracy of 1/100th foot was utilized for the water level measurements. The water level was measured against a fixed reference point on the well casing. Measurements were recorded on the data sheet in decimal feet. When necessary after measuring the water level, the hole was refilled with water to a level of six inches or more above the bottom of the hole.

Percolation Test Results

The completed percolation test form is included in Appendix 3 of this report. The form was signed by Mr. Ahmed and indicates a percolation rate for the hole based on the final water drop observed.

Per San Joaquin County Environmental Health Department's definition, a shallow percolation test hole has a depth between 36 and 42 inches; a satisfactory percolation rate for a shallow test is greater than or equal to 1 minute per inch (min/in) but less than or equal to 60 min/in drop. For the Site to utilize a standard septic system, one percolation test must demonstrate a satisfactory percolation rate within the proposed

septic system disposal field. Details and results of the percolation test are summarized in the following table.

Table 2. Percolation Test Summary

Test No., Date Tested	Percolation Test Depth (ft.)	Percolation Rate (minutes/inch)	Test Duration	Comments (see notes)
P1, 8/7/2019 Shallow Test	3.26	2.38	1 hr.	Satisfactory perc.
P1, 8/7/2019 Shallow Test	3.49	2.19	1 hr.	Satisfactory perc.

Note: A satisfactory percolation rate for a "shallow" test is greater than 1 but less than or equal to 60 minutes per inch.

Discussion of Percolation Test Results

The soils within the proposed sewage disposal areas of the Site have demonstrated satisfactory percolation rates for the use of septic systems in accordance with the requirements of the San Joaquin County Environmental Health Department.

Because of the percolation rate between 1.0 and 5.0 min/in encountered in the test hole, the San Joaquin County Environmental Health Department will require a 20-foot separation from the bottom of the dispersal system to ground water, or mitigation by system design or enhancement (see Table 2). Ground water is anticipated to be encountered approximately 32 feet below ground surface at the Site, according to the Well Completion Report; as a result, no modification to standard shallow septic systems should be required.

Discussion of Septic System Sizing

Septic system construction utilizing leach lines or filter beds should follow the San Joaquin County *On-Site Wastewater Treatment Systems Standards* (2017) where applicable.

¹ Per San Joaquin County Environmental Health Department, a rate between 1.0 and 5.0 min/in requires a 20-foot separation between the bottom of dispersal system and ground water, or mitigation by system design or enhancement.

NITRATE LOADING STUDY

Because of concerns of nitrate leaching into ground water from septic systems, a nitrate loading analysis was required by the San Joaquin County Environmental Health Department for approval of the proposed project. The study estimates the potential concentration of percolating effluent produced by the project over the long term. Where percolating effluent leaches into the ground, ground water quality may be impacted to some degree should the effluent reach ground water.

The method utilized for the nitrate loading analysis is based on a simple and convenient mass balance formula, discussed in a published paper by Hantzsche and Finnemore (1992).

Hantzsche and Finnemore have found from investigations conducted in the Chico, California area, the water quality in the upper saturated ground-water zone closely approximates the quality of percolating effluent from septic systems. They have developed a simple method that could be used to estimate the quality of the percolating effluent from septic systems. The quality of the percolating effluent may represent the potential worst-case condition the upper aquifer would ever experience from the use of on-site septic systems. Mixing and dilution in the aquifer as well as adsorption and adhesion in the soil would tend to substantially reduce the concentration of percolating effluent.

The Hantzsche and Finnemore equation is a conservative approximation of ground-water nitrate-nitrogen concentration resulting from the combined effect of on-site sewage disposal systems and percolating recharge waters. The equation and method is for estimation of long-term effect ground-water quality, and is not intended for prediction of seasonal changes (Hantzsche and Finnemore, 1992).

For the purpose of the Hantzsche and Finnemore equation, only septic effluent is included in the nitrate loading calculation; no other potential sources of nitrate are considered.

The method takes into account the development area, soil denitrification factor, rate of recharge from percolating waters, waste effluent quantity, and waste effluent nitrate concentration from on-site septic systems, and predicts the nitrate concentration of percolating effluent.

Mass Transport Soil Properties

The percolation test has revealed that the surface soils are permeable and will allow infiltration of water. The longer the effluent remains near the surface, the more biologic treatment may occur. If permeable soils exist to the depth of the ground-water aquifer, it

is possible that any remaining surface contaminants may be transported to the first saturated zone of the aquifer.

Sources of Nitrate

Dairies, orchards that require fertilization in sandy soils, and septic systems have been found to be the most significant sources of nitrate in ground water.

Percolating Recharge Waters

One of the most determinant factors in the Hantzsche and Finnemore equation is the rate of recharge from percolating waters, which mix with the downward-percolating effluent generated by on-site septic systems. In the original Hantzsche and Finnemore paper, only "average recharge rate of rainfall" was considered.

Based on San Joaquin County Environmental Health Department policy (personal communication, March 18, 2019), the recharge input for the Hantzsche and Finnemore equation should be derived from average monthly precipitation of rainfall and evapotranspiration rates for the area; the data should be obtained from the California Irrigation Management Information System (CIMIS), preferably from stations located within San Joaquin County. Recharge is calculated by first determining whether the average monthly precipitation exceeds average monthly potential evapotranspiration. If so, then the difference is the percolating recharge water into the aquifer. Runoff and stream infiltration drainage are not factored into the calculation. This approach likely under-estimates recharge to the aquifer and, consequently, over-estimates nitrate loading.

For the project Site, the local precipitation and evapotranspiration rates are presented in Plate 15. The Site is located closest to the CIMIS Manteca station (70). Data for the Manteca station were available for 2014 through 2018; based on the calculation shown, the estimated rate of recharge from percolating waters for the Manteca station is determined to be 3.64 inches. A statistical error of 48 percent is associated with this value.

Quality of Rainwater

Hantzsche and Finnemore listed 1 mg/L-N as the nitrate concentration of rainwater for their original calculation; in the past, Live Oak has also utilized this value for the nitrate loading calculation.

In May 2019, Live Oak collected rainwater during two storm events in Lodi; the samples were analyzed for nitrate by FGL Environmental of Stockton. Each sample was collected in a clean, dry, stainless steel bowl, then decanted into a plastic container and placed on ice for transport.

Nitrate was detected in the May 17 sample at a concentration of 0.4 mg/L-N and in the May 19 sample at a concentration of 0.2 mg/L-N. Live Oak then averaged the concentrations of the two samples, for a value of 0.3 mg/L-N to represent the nitrate concentration of rain.

Because the San Joaquin County Environmental Health Department has requested that local and recent data be utilized wherever possible, the concentration of the Lodi rainwater been selected for use in the nitrate loading calculation.

Quantity and Quality of Domestic Wastewater

According to information on file at the San Joaquin County Community Development Department, the Kusalakari Corporation plans to convert an existing 1,804 square foot barn into a reception area and office, convert an existing 5,000 square foot barn into an ordination hall, and construct a 5,900 square foot assembly hall. In three years, a 3,600 square foot addition to the ordination hall for kitchen and dining facilities will be constructed, as well as a 1,650 square foot residential unit and a 1,500 square foot residential unit. In five years, a 1,650 square foot residential unit and a 1,500 square foot residential unit will be constructed. In seven years, a 1,650 square foot residential unit will be constructed.

The Use Permit application indicates that one to two volunteers will be present on the Site daily. Meditation retreats will take place periodically; additional information provided as part of the application states that, at full build-out, the retreats will be attended by up to 47 people. Each retreat will last between three and ten days. According to the Use Permit application, events will also be held four times per year, with a maximum attendance of 200 guests.

Brian McNamara and Jim Kahn were interviewed by phone on August 13, 2019, regarding the proposed facilities. They clarified that meditation retreats will be held approximately six to ten times per year. Half of these retreats will be expected to last ten days, while the other half will last only three days. For the purpose of this study, a maximum of 65 days of retreats are assumed. During a retreat, approximately two daily visitors (staying for only a few hours) would be anticipated. No other non-resident congregants would be present at the Site while a retreat is taking place. Mr. Kahn added that the facility's kitchen will only be used during retreats and events, and will not include a garbage disposal. The retreat residences will include toilets, showers, and sinks, but will not include kitchen or laundry facilities.

The Site will be used for religious purposes on non-retreat days; the information provided by the San Joaquin County Community Development Department states that "attendees would use the facilities on their own individual schedules. The applicant anticipates Saturday and Sunday being the busiest days with approximately 40

attendees per day." Mr. McNamara indicated that 10 or less congregants per day are anticipated on weekdays.

The estimated sewage flow rates for various uses are available from a number of references. The uses presented below were guided by the San Joaquin County *On-Site Wastewater Treatment Systems Standards* (2017), Crites and Tchobanoglous (1998), and US EPA (1980).

Crites and Tchobanoglous (1998) list a typical flow rate of 50 to 70 gallons per person per day for an individual residence. The San Joaquin County Environmental Health Department has indicated that maximum flow and double occupancy within each bedroom should be considered for the nitrate loading assessment (personal communication, January 6, 2017); as a result, a value of 140 gallons per bedroom per day has been selected for the three-bedroom residence on the Site.

Crites and Tchobanoglous list a value of 50 gallons per day for a guest at a hotel. Because the guests at the retreat on the Site will be staying for a maximum of 10 days, during which time they will not wash laundry or do other water-intensive activities, the hotel use value is appropriate and is selected for the guests.

Crites and Tchobanoglous indicate that 13 gallons per day for each employee is typical for an office worker; this rate was used for the volunteers of the religious facility.

The *On-Site Wastewater Treatment Systems Standards* indicate 10 gallons per seat is the typical flow for a church with a kitchen; however, this value is intended for use in sizing septic systems and may overestimate use. Crites and Tchobanoglous indicate 3 gallons per seat is the typical use for an assembly hall, 9 gallons per customer is the typical use for a restaurant, and 7 gallons per meal is the typical use for a dining hall. For the purpose of this study, 7 gallons per person has been selected to represent the guests at an event, during which time a meal may be served.

A value of 5 gallons per person is typically assigned to attendees at a religious facility without a kitchen; this value has been selected to represent daily (non-retreat, non-event) congregants because the kitchen will not be used on a daily basis.

Crites and Tchobanoglous list 5 gallons per person for an attendee at a visitor center; this value has been used for day visitors to the Site.

A typical residential concentration of 35 mg/L of nitrate as N was selected for the existing residence and proposed retreat housing (Crites and Tchobanoglous, 1998).

Total nitrogen levels from commercial wastewater uses are known to be higher in concentration compared to residential levels due to less dilution from non-toilet sources. The typical residential wastewater range is reported to be 20 to 85 mg/L-N (Crites and Tchobanoglous, 1998). Since reference material for commercial restroom uses is

limited, we assume total nitrogen is similar to higher residential values; therefore, 85 mg/L-N is selected for visiting guests and volunteers of the religious facility.

The estimated flow values discussed here should not be used for the design and sizing of the septic system. The design and sizing of the septic system should utilize the San Joaquin County Environmental Health Department *On-Site Wastewater Treatment Systems Standards* which incorporate peak and surge flow factors. The estimates used in the *On-Site Wastewater Treatment Systems Standards* may be greater than those discussed here.

The maximum average daily flow for the Site was estimated to be 958 gallons per day (gpd). Through the use of a weighted average, the average concentration of all the different effluent flows and concentrations was determined to be 41.2 mg/L-N at 958 gallons per day. Please see the following tables:

Table 3. Average Daily Flow Calculation

Use	Units	Rate	Subtotal	Adjustment	Average Daily Flow
Volunteers (daily)	2	13 gal/person/day	26 gpd	None	26 gpd
Residence	3 BR	140 gal/BR/day	420 gpd	None	420 gpd
Congregants, weekdays (no kitchen use)	10	5 gal/person	50 gpd	5/7, 300/365	29.4 gpd
Congregants, weekends (no kitchen use)	40	5 gal/person	200 gpd	2/7, 300/365	47.0 gpd
Congregants, events (4 per year, some kitchen use)	200	7 gal/person	1,400 gpd	4/365	15.3 gpd
Retreat guests (overnight on-site)	47	50 gal/person	2,350 gpd	65/365	418.5 gpd
Retreat day visitors	2	5 gal/person	10 gpd	65/365	1.8 gpd
Total					958 gpd

Adjustment factors convert calculated flow into average daily flow over a year. This needs to be taken into account since attendance varies by day of the week, and retreats take place only part of the year. The factors 2/7 and 5/7 refer to days per week. The factors 65/365 and 300/365 refer to days per year. No adjustment factor is used for a residence since it is continuously occupied.

Table 4. Weighted Average Concentration Calculation

Use	Average Daily Flow	Estimated Waste Water Quality	Weighted Average Product		
Volunteers, non-resident (14 hr. shift, daily)	26 gpd	85 mg/L-N	2,210 gpd-mg/L-N		
Residence	420 gpd	35 mg/L-N	14,700 gpd-mg/L-N		
Congregants, weekdays (no kitchen use)	29.4 gpd	85 mg/L-N	2,499 gpd-mg/L-N		
Congregants, weekends (no kitchen use)	47.0 gpd	85 mg/L-N	3,995 gpd-mg/L-N		
Congregants, events (4 per year, some kitchen use)	15.3 gpd	85 mg/L-N	1300.5 gpd-mg/L-N		
Retreat Guests (overnight on-site)	418.5 gpd	35 mg/L-N	14,647.5 gpd-mg/L-N		
Retreat Day Visitors 1.8 gpd		85 mg/L-N	153 gpd-mg/L-N		
Totals	958 gpd		39,505 gpd-mg/L-N		
Weighted Average Concentration:	39,505 gpd-mg/L-N / 958 gpd = 41.2 mg/L-N				

Denitrification Reductions

Denitrification is a process that occurs in the septic system drain field whereby certain bacteria oxidize the nitrate (NO_3) in the wastewater and release nitrogen gas (N_2) to the atmosphere. Due to the biologic processes in the shallow soils, nitrogen in the drain field may undergo a reduction between 10 percent to 35 percent. Soils with higher clay content, moist soil conditions, high pH, and organic material denitrify by about 35 percent, and soils with high sand content tend to denitrify at a lower rate of about 10 percent.

A standard denitrification factor of 25 percent (Hantzsche and Finnemore) was selected for the Site because of the silt content of the soil present at the percolation test locations.

Nitrate Loading Estimate

A nitrate loading scenario was employed to determine the impact from the proposed project to ground water. The scenario utilizes the variables discussed previously, which represent the estimated conditions and uses associated with this project. The following table presents a summary of the assumptions for the nitrate loading calculation for the Site, as presented in Plate 16.

Table 5. Assumptions for Nitrate Loading Calculation

Variable	Value	Units	Description
Q	958	gpd	Effluent flow rate
Nw	41.2	mg/L-N	Effluent stream concentration
А	5.0	acres	Site area
Nb	0.3	mg/L-N	Concentration of rain
d	0.25	constant	Denitrification factor
R	3.64	inches per year	Recharge rate of rainfall
W	2.6	inches per year	Uniform waste water loading (calculated)

The details of the nitrate loading calculation are included in Plate 16. The results of the calculation are presented in the following table.

Table 6. Result of Nitrate Loading Calculation

Variable	Value	Units	Description
Nc	13.0	mg/L-N	Long-term average concentration of percolating effluent

The US EPA recommended MCL for nitrate in drinking water is 10 mg/L-N. In a worst-case situation, the maximum buildup of nitrates in the aquifer from the use of septic systems on the Site is predicted to be 13.0 mg/L-N. The result of the nitrate loading estimate exceeds the maximum drinking water standard.

Discussion of Nitrate Loading Results

Total Nitrate Impact

Based on the method and assumptions described, the result of the nitrate loading estimate indicates that the existing and proposed development on the Site has the potential to cause a buildup of nitrates in the aquifer above 10 mg/L-N.

For greater protection of the ground water, it is recommended that only shallow septic systems utilizing leach lines or filter beds be installed rather than deeper sumps. Recent San Joaquin County Environmental Health Department policy has been to evaluate each project on a case-by-case basis to determine whether additional measures to mitigate nitrate should be employed.

CONCLUSIONS AND RECOMMENDATIONS

In summary, this investigation has found the Site suitable for the use of on-site septic systems; the soil conditions examined near the proposed septic system drain fields were found to be suitable. Satisfactory soil percolation rates of 2.38 and 2.19 min/in were observed in the shallow soil zone at the test locations.

The depth of ground water based on recent aquifer levels is estimated to be 25 to 30 feet below ground surface; the well completion report for the new domestic well indicates a depth to water of 32 feet. The ground-water flow beneath the Site is to the north or north-northeast at a rate of approximately four feet per mile.

Because the percolation rate encountered falls between 1.0 and 5.0 min/in, the San Joaquin County Environmental Health Department will require a 20-foot separation from the bottom of the dispersal system to ground water, or mitigation by system design or enhancement. Based on the predicted current depth to water, no modification to standard, shallow systems should be required.

A water sample was collected from the old domestic well on the Site as part of this investigation; the new well is not currently operational. Nitrate was detected in the sample at a concentration of 22.6 mg/L-N, above the MCL of 10 mg/L-N. DBCP was not detected in the sample; the MCL for DBCP is 0.2 μ g/L. It is recommended for health reasons that bottled water be consumed until the concentration of nitrate can be reduced to below the MCL. Nitrate can be removed by filtration, and several wholehouse filters are available. When the new well is made operational, it should be tested for nitrate prior to domestic use. Nitrate levels in the area may derive in part from fertilization of nearby orchards.

Based on a review of the San Joaquin County Environmental Health Department's map of nitrate detections in nearby wells, two wells within a half-mile radius of the subject Site have been tested. Nitrate was detected in one well at a concentration between 0.1 and 5.0 mg/L-N, and in the other at a concentration between 5.1 and 10 mg/L-N. One well within a half-mile radius of the Site was tested for DBCP; no DBCP was detected.

Based on the current project, the use of on-site septic tanks and drain field systems on the Site has the potential to cause a buildup of nitrate in the aquifer up to 13.0 mg/L-N. This level exceeds the US EPA drinking water recommendation of 10 mg/L-N.

For greater protection of the ground water, it is recommended that only shallow septic systems utilizing leach lines or filter beds be installed rather than deeper sumps. Recent San Joaquin County Environmental Health Department policy has been to evaluate each project on a case-by-case basis to determine whether additional measures to mitigate nitrate should be employed.

LIMITATIONS

This report has been prepared for the exclusive purpose of processing of a land use application or building permit at San Joaquin County. It is authorized for use only by the client, the property owner, and the County agencies involved. The standard of care employed is typical for this type of work in this area.

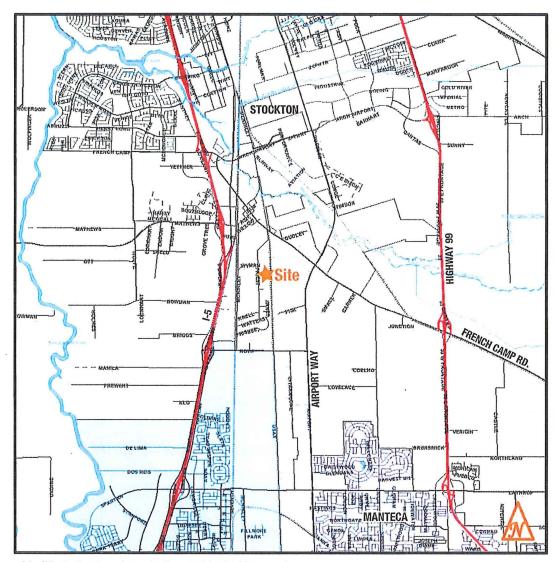
Test findings and statements of opinion are not a guarantee or warranty. Site conditions, agency policies, and regulations are subject to change and may invalidate portions of this report. Information in this report is derived from many sources; Live Oak cannot warrant the accuracy or completeness of information provided by those sources. The nitrate loading calculation discussed in this report is based on a combination of scientific studies prepared by others and policies dictated by the San Joaquin County Environmental Health Department. As such, Live Oak cannot guarantee or warranty the findings of this investigation or the prevention of environmental impacts as a result of the proposed development.

This report is not an environmental assessment and makes no claim to identify "recognized environmental conditions" or health and safety concerns for the Site. The San Joaquin County Environmental Health Department should be contacted regarding actions to be taken to ensure an acceptable drinking water supply.

The estimated flow values discussed in the Nitrate Loading Study should not be used for the design and sizing of the septic system. The design and sizing of the septic system should utilize the San Joaquin County Environmental Health Department *On-Site Wastewater Treatment Systems Standards* which incorporates peak and surge flow factors.

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Modified after San Joaquin County District Viewer, sjmap.org.



Site Location

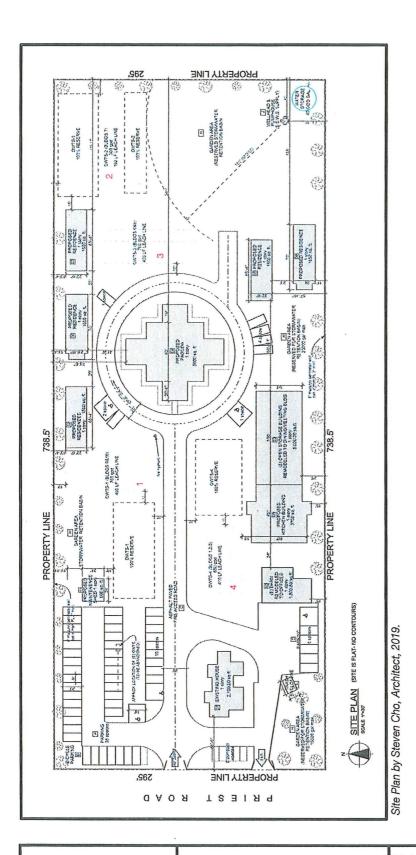
Kusalakari Property 9698 S. Priest Rd. French Camp, CA

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Project No: 1938

Date: September 4, 2019

Not to Scale





Proposed Development

Kusalakari Property 9698 S. Priest Rd. French Camp, CA Plate No.: 2

Project No: 1938

Date: September 4, 2019

Not to Scale



Modified after May 2018 photo from San Joaquin County District Viewer, sjmap.org.

Key

Property line

0

Domestic well

(S)

Septic system



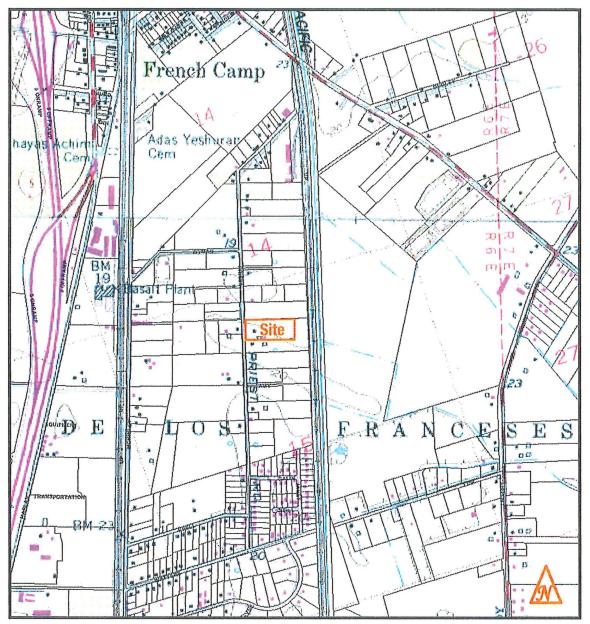
Site Map/Aerial Photo

Kusalakari Property 9698 S. Priest Rd. French Camp, CA Plate No.: 3

Project No: 1938

Date: September 4, 2019

Not to Scale



Modified after USGS 7.5' Topographic Map, San Joaquin County District Viewer.

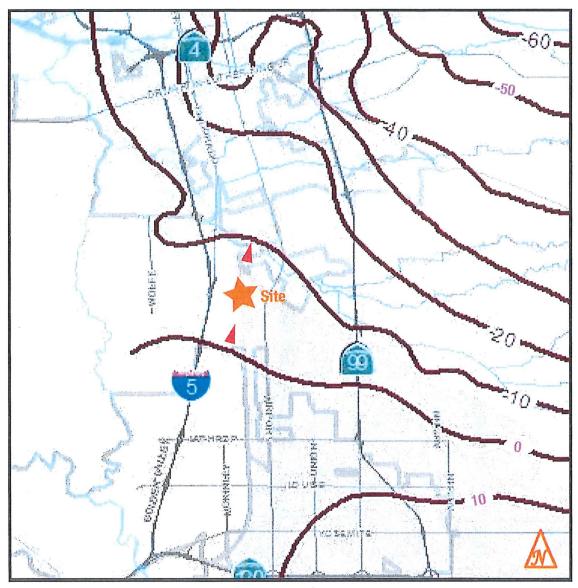


Topographic Map

Kusalakari Property 9698 S. Priest Rd. French Camp, CA Plate No.: 4

Project No: 1938

Date: September 4, 2019



Modified after San Joaquin County Flood Control and Water Conservation District, Groundwater Report Spring 2016.



Lines of equal elevation of ground water (feet above mean sea level)



Groundwater flow direction

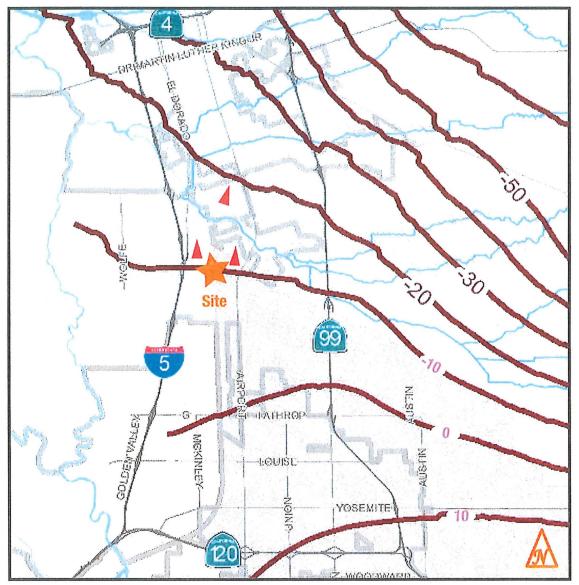


Spring 2016 Groundwater Elevation

Kusalakari Property 9698 S. Priest Rd. French Camp, CA Plate No.: 5

Project No: 1938

Date: September 4, 2019



Modified after San Joaquin County Flood Control and Water Conservation District, Groundwater Report Fall 2016.



Lines of equal elevation of ground water (feet above mean sea level)



Groundwater flow direction

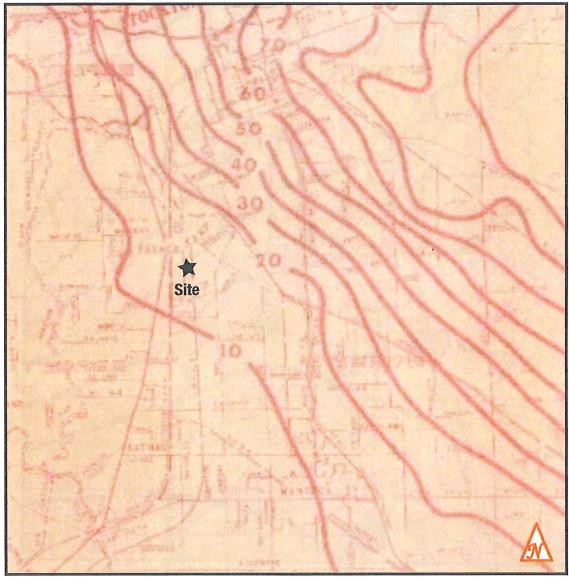


Fall 2016 Groundwater Elevation

Kusalakari Property 9698 S. Priest Rd. French Camp, CA Plate No.: 6

Project No: 1938

Date: September 4, 2019



Modified after San Joaquin County Flood Control and Water Conservation District, Lines of Equal Depth to Water in Wells, Spring 1983.

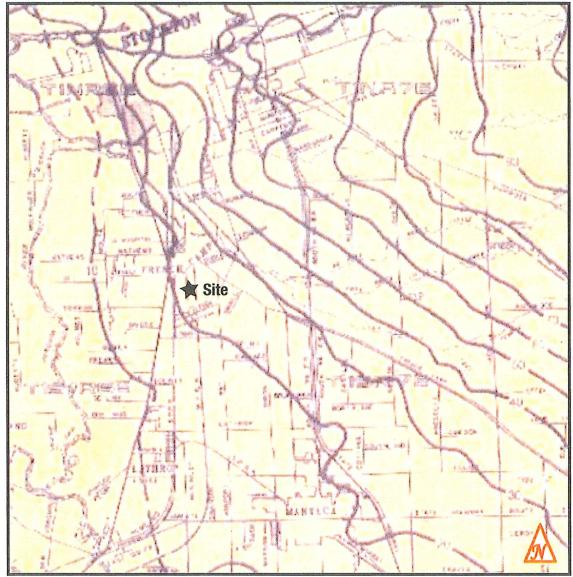
_______Lines of equal depth to ground water



Spring 1983 Depth to Ground Water Kusalakari Property 9698 S. Priest Rd. French Camp, CA Plate No.: 7

Project No: 1938

Date: September 4, 2019



Modified after San Joaquin County Flood Control and Water Conservation District, Lines of Equal Depth to Groundwater, Spring 1999.

_ 90 Lines of equal depth to ground water

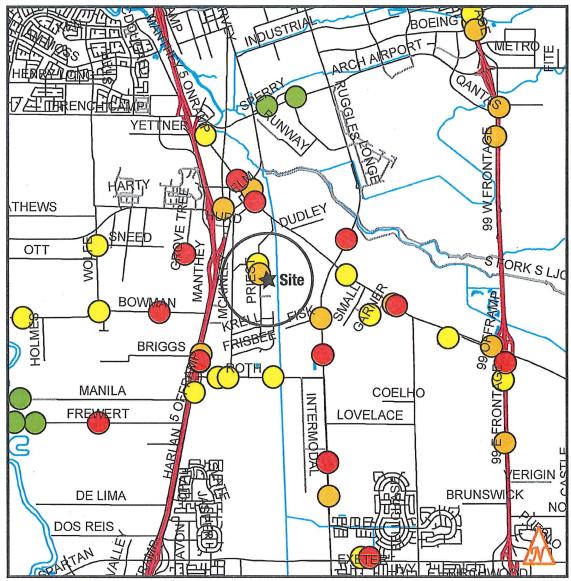


Spring 1999 Depth to Ground Water Kusalakari Property 9698 S. Priest Rd. French Camp, CA

Plate No.: 8

Project No: 1938

Date: September 4, 2019



Modified after San Joaquin County Environmental Health Department, 2019, Nitrate - Land Use Data.

Key

Not Detected

Nitrate 0.1 - 5.0 mg/L-N

Nitrate 5.1 - 10.0 mg/L-N

Nitrate > 10.0 mg/L-N



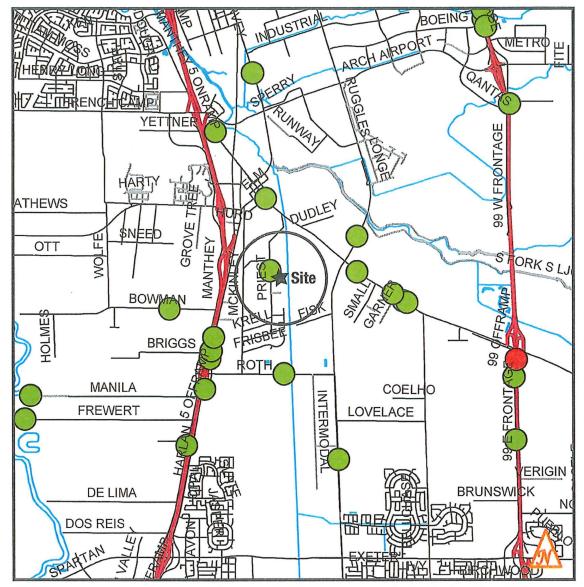
Nitrate Levels in Nearby Wells

> Kusalakari Property 9698 S. Priest Rd. French Camp, CA

Plate No.: 9

Project No: 1938

Date: September 4, 2019



Modified after San Joaquin County Environmental Health Department, 2019, DBCP - Land Use Data.

Key

DBCP Not Detected

OBCP 0.01 - 0.2 ug/L



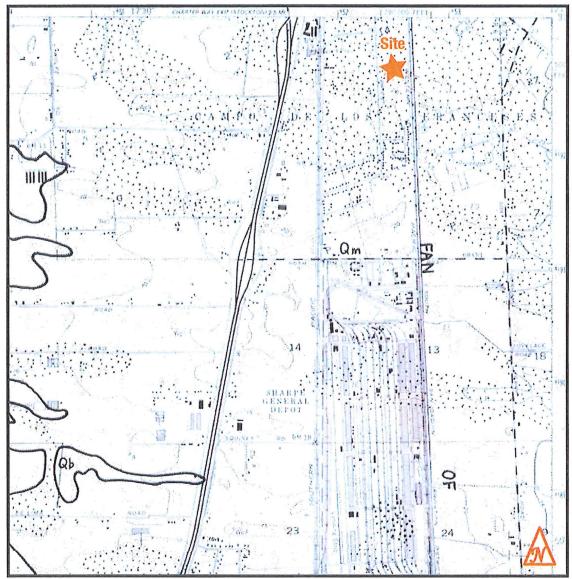
DBCP Levels in Nearby Wells

> Kusalakari Property 9698 S. Priest Rd. French Camp, CA

Plate No.: 10

Project No: 1938

Date: September 4, 2019



Modified after Atwater, B.F., 1982, Geologic maps of the Sacramento-San Joaquin Delta, California. USGS MF-1401.

Qm Modesto formation, loose sand and silt, chiefly fluvial

Qb Flood-basin depoits



Geologic Map

Kusalakari Property 9698 S. Priest Rd. French Camp, CA

-			-	
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	alc	NU		ш

Project No: 1938

Date: September 4, 2019



Modified after US Department of Agriculture, Natural Resources Conservation Service, 2019, Web Soil Survey.

Delhi loamy sand, 0-2% slopes Honcut sandy loam, 0-2% slopes Tinnin loamy coarse sand, 0-2% slopes Veritas fine sandy loam, 0-2% slopes

142 175 255 266



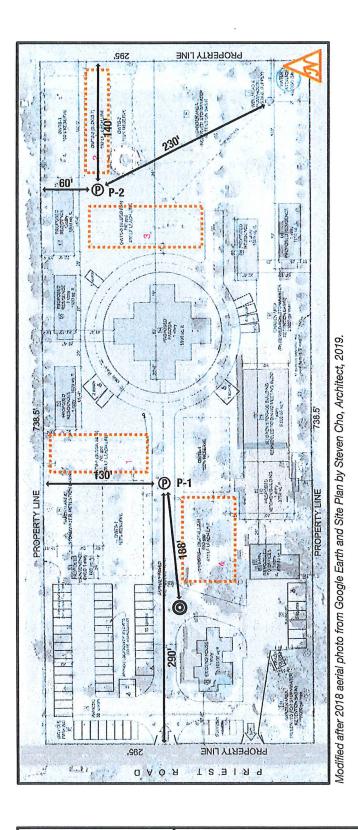
Soil Map

Kusalakari Property 9698 S. Priest Rd. French Camp, CA

Plate No.: 12

Project No: 1938

Date: September 4, 2019



Key:

Percolation test location (shallow)

Water sample location (domestic well)

Proposed septic leach field area

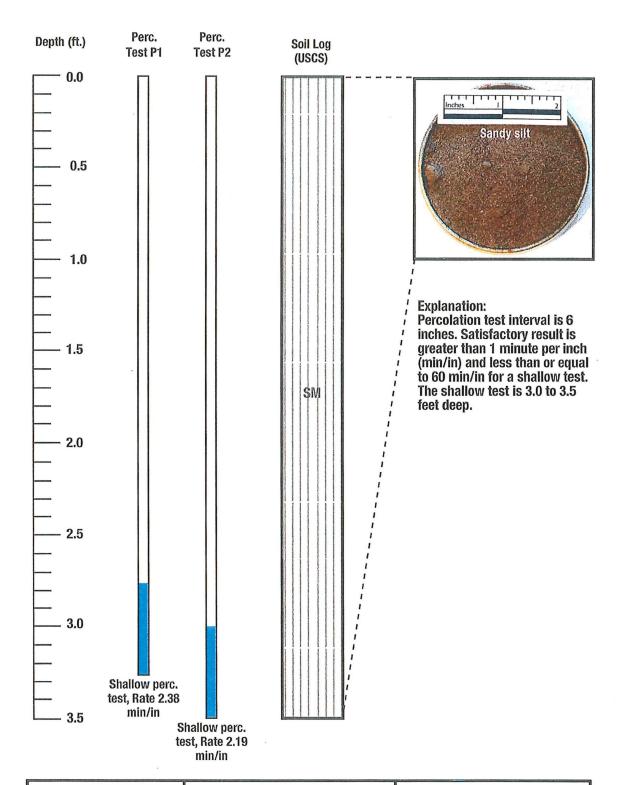


Percolation Test and Water Sample Locations Kusalakari Property 9698 S. Priest Rd. French Camp, CA Plate No.: 13

Project No: 1938

Date: September 4, 2019

Scale: 1 in. = 100 ft.





Soil Log and Percolation Test Results

Kusalakari Property 9698 S. Priest Rd. French Camp, CA Plate No.: 14

Project No: 1938

Drilled August 2, 2019

Drilling method: hand auger

Manteca (Station 70)*

Deep Percolation = Precipitation - Evapotranspiration

Month	Precipitation (in)	Evapotranspiration (in)	Deep Percolation (in)
Jan	0.43	1.90	
Feb	2.67	1.91	0.76
Mar	1.89	3.49	
Apr	0.72	5.10	
May	0.00	7.46	
Jun	0.03	8.03	
Jul	0.00	7.82	
Aug	0.00	6.84	
Sep	0.50	5.21	
Oct	0.43	3.65	
Nov	1.16	1.64	
Dec	5.83	0.96	4.87
Total	13.20	52.11	5.63

Month	Precipitation (in)	Evapotranspiration (in)	Deep Percolation (in)
Jan	0.10	1.11	
Feb	0.89	1.97	
Mar	0.21	4.32	
Apr	1.14	5.69	
May	0.01	6.70	
Jun	0.06	7.73	
Jul	0.00	7.96	
Aug	0.01	7.09	
Sep	0.02	4.82	
Oct	0.18	3.75	
Nov	1.95	1.89	0.06
Dec	2.14	1.24	0.90
	6.70	54.27	0.96

Month	Precipitation (in)	Evapotranspiration (in)	Deep Percolation (in)
Jan	4.38	1.11	3.27
Feb	0.50	2.59	
Mar	3.01	3.45	
Apr	2.22	5.23	
May	0.37	6.59	
Jun	0.00	7.98	
Jul	0.00	8.20	
Aug	0.00	6.88	
Sep	0.00	5.35	
Oct	2.17	2.84	
Nov	1.45	1.80	
Dec	2.07	1.22	0.85
	16.20	53.24	4.12

*Data from California Irrigation Management Information System (CIMIS)

Average Recharge (in) =

Standard Deviation (in) =

$$s = \sqrt{\frac{\sum_{i=1}^{N} (x_i - \bar{x})^2}{N-1}},$$

where $\{x1, x2, ..., Xn\}$ are the observed values of the sample items, x bar is the mean value of these observations, and N is the number of observations in the sample.

Percent Error = Standard Deviation / mean * 100% Percent Error = 48 %



Recharge Calculation (Manteca Station) **Kusalakari Property** 9698 S. Priest Rd. French Camp, CA

Plate No.: 15

Project No: 1938

Date: September 4, 2019

Precipitation (in) Evapotranspiration (in) Deep Percolation (in) 5.50 1.09 4.41 0.007 1.63 4.41 3.69 1.63 4.55 0.09 7.13 0.002 7.78 0.000 8.35 0.03 6.91 0.00 4.90 0.11 3.82 0.74 1.60 0.08 1.62 9.70 53.07 4.41

53.07

Precipitation (in) Evapotranspiration (in) Deep Percolation (in)
2.85
1.02
0.61
2.58
1.94
3.08
1.75
5.22
0.09
6.94
0.00
7.89
0.00
7.07
0.00
5.54
0.33
3.83
2.15
1.92
2.26
1.26
1.20
54.69
3.06

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Total

Month
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

5.50 0.07 1.41 1.63 0.09 0.02 0.00 0.03 0.00 0.11 0.74 0.08 9.70

Nitrate Loading Calculations:

Variable	Value	<u>Units</u>	Description
Q	958.0	gallons per day	Effluent flow rate from report
Nw	41.2	mg/L-N	Effluent stream concentration from report
Α	5.00	acres	Site area from report
Nb	0.3	mg/L-N	Concentration of rain water from report
d	0.25	constant	Denitrification factor from report
R	3.64	inches per year	Recharge rate of rainfall from report (evapotranspiration method)
W	2.6	inches per year	Uniform waste water loading for site calculation result
Nc	13.0	mg/L-N	RESULT: Long-term average concentration of percolating effluent

Find Variable (W):

2.58 in/yr (site) = 958 gal/day x (1 cu-ft / 7.48 gals) x (365 days/1 year) x (1 acre / 43,560 sq-ft) x (12 in / 1 ft) x (1 site / 5 acres)

Hantzsche-Fennemore Equation (Nc):

$$N_c = \frac{WN_w(1-d) + RN_b}{W+R}$$

 $12.98 \text{ mg/L-N} = ((2.58 \text{ in/yr} \times 41.2 \text{ mg/L-N} \times (1 - 0.25)) + (3.64 \text{ in/yr} \times 0.3 \text{mg/L-N})) / (2.58 \text{ in/yr} + 3.64 \text{ in/yr})$

Assumptions:

- 1. Total nitrogen concentration of influent waste stream is 41.2 mg/L-N. If different influent concentrations exist, use weighted average
- 2. Fraction of nitrate-N loss due to denitrification in the soil is 25%.
- 3. Estimated deep percolation of rainfall is 3.64 in/yr.
- 4. Background nitrate-N concentration of rainfall is 0.3 mg/L-N.



Nitrate Loading Calculation

Kusalakari Property 9698 S. Priest Rd. French Camp, CA Plate No.: 16

Project No: 1938

Date: September 4, 2019

UNSITE WASTEWATER TREATMENT SYSTEM PERMIT SAN JOAQUIN COUNTY ENVIRONMENTAL HEALTH DEPARTMENT 600 E MAIN STREET - STOCKTON CA 95202 - (209) 468-3420 Non-Refundable Permit CALL (209) 953-7697 FOR INSPECTIONS EXPIRES 1 YEAR FROM DATE ISSUED 9698 PRIEST RID. CITYZIP FRENCH CAMP 95231 APN 193-220-15 WYMAN PARCEL SIZE 5 AC. **CROSS STREET** KUSALAKARI CORP PHONE (415) 293-9192 SAME OWNER ADDRESS CITY/STATE/ZIP LIVE OAK GEDENVIRONMENTAL PHONE 369-0375 CITY/STATE/ZIP LODI CA 95240 407 W. OAK ST. LICENSE CC-42 CC-36 OTHER NUMBER EXPIRATION DATE ft GEOGRAPHICAL INFORMATION: Coordinates X WATER TABLE DEPTH: BUILDING PERMIT # LAND USE APPLICATION # PA-18 00177 X PERC TEST #_ YPE OF WORK: NEW INSTALLATION ☐ REPAIR/ADDITION ☐ ENGINEER DESIGNED /ALTERNATIVE REPLACEMENT П DESTRUCTION INSTALLATION WILL SERVE: RESIDENCE ☐ COMMERCIAL OTHER. NUMBER OF LIVING UNITS: NUMBER OF BEDROOMS: NUMBER OF EMPLOYEES ☐ SEPTIC TANK TYPE/MFG CAPACITY gal # OF COMPARTMENTS **GREASE TRAP** gal # of COMPARTMENTS_ th PROPERTY LINE _______ TO GO OF SAND OIL SEPARATOR (ENCLOSED SYSTEM) AUG 0 2 2019 DISTANCE TO NEAREST: WELL ft FOUNDATION ☐ LIFT STATION __ TYPE OF PUMP_ ☐ PKG TX PLANT SAN JOAQUIN COUNTY _ # OF LINES _ **LEACH LINES** □ LEACHING CHAMBERS LENGTH OF LINES HEALTH DEPARTMENT DISTANCE TO NEAREST WELL_ FOUNDATION. PROPERTY LINE FILTER BED ft LENGTH DEPTH WIDTH DISTANCE TO NEAREST ft FOUNDATION WELL PROPERTY LINE MOUNDED ft LENGTH_ DEPTH_ DISTANCE TO NEAREST WELL ft FOUNDATION PROPERTY LINE SUMPS ft LENGTH_ DISTANCE TO NEAREST WELL ft FOUNDATION PROPERTY LINE DISPOSAL PONDS WIDTH _ ft LENGTH DEPTH_ DISTANCE TO NEAREST WELL ft FOUNDATION ft PROPERTY LINE SEEPAGE PITS WIDTH ft DEPTH NUMBER DISTANCE TO NEAREST ft FOUNDATION WELL I HEREBY CERTIFY THAT I HAVE PREPARED THIS APPLICATION AND THE WORK WILL BE DONE IN ACCORDANCE WITH SAN JOAQUIN COUNTY ORDINANCES, MINIMUM 24 HOUR ADVANCE NOTICE REQUIRED FOR INSPECTIONS - PLEASE CALL (209) 953-7697 7-30-19 TITLE CONSULTANT SIGNED 738.5 295 0 0 œ Œ s ш 1 ж -DEPARTMENT (ISE ONLY **Application Accepted By** Date Employee ID# ☐ SPECIAL PERMIT - Approved by Final Inspection By Character of Soil to Depth of 3 Ft: Pit/Sump Soil Character COMMENTS Received Check# PF SC Permit/ Amount Invoice # Permit ID# Code INFO Remitted

OLOUIN COOK

SAN JOAQUIN COUNTY

ENVIRONMENTAL HEALTH DEPARTMENT

600 East Main Street, Stockton, CA 95202-3029

**Telephone: (209) 468-3420 Fax: (209) 464-0138 Web: www.sjgov.org/ehd

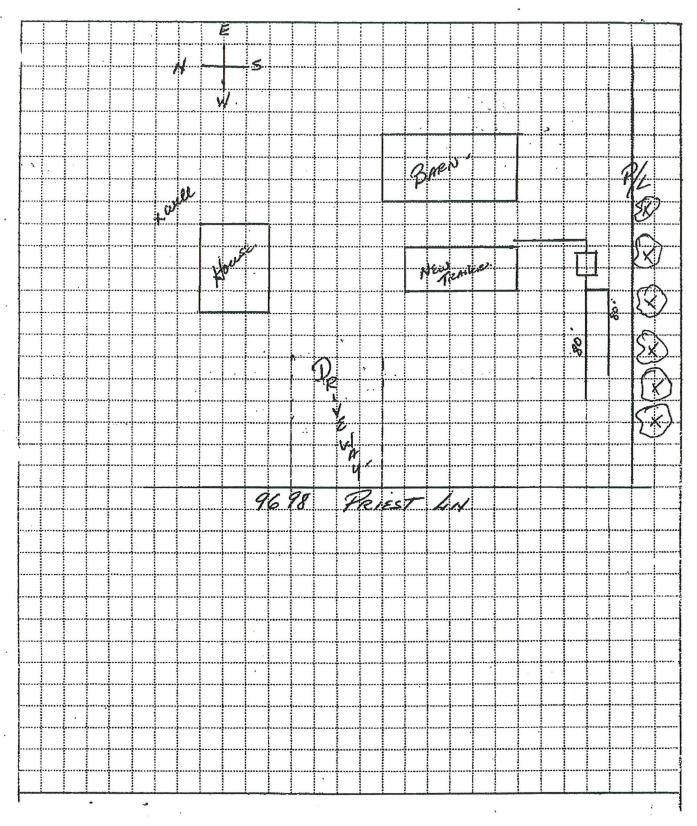
PERCOLATION TEST RATE

ADDRESS OR LOC	CATION: 969	8 5. PRI	EST RD.		city: <u>F/</u> date: <u>8</u> -	RENCH C	AMP
OWNER NAME:	KUSALAK	ARI COR	P.		DATE: 8'-	7-19	
			ICATION#: PA -	1800177	DEPTH	TO FIRST WATER	: Ft
SOIL TYPE:							, ,
REMARKS:	É						
KEWIAKKS.						Torrito	
						William Committee of the Committee of th	
		LOCATION	OF TEST HOLES	(SHOW WELLS A	ND STRUCTURES)		
					I I I I I I		1 1 1 1 1
PF	RCOLATION	TEST SKETO	H		PERCOLATIO	N TEST SKE	TCH
# 1				# ₂			
	2-IN DIA. S	OIL BORING				. PVC PIPE/ SOIL BORING	Tr. State-
	Г	7.54 T					T
		1.34		1.1.1.		1.25	-
7 10 20 20 20 20 20 20 20 20 20 20 20 20 20							
2 7/2			4.80	3.4	9		4.74
3.26				111 2.7	<u>/</u>	- 11	1.6
		-11		1-1-1-		_	14
							- Andrews
	3 (-						_
REFILL HEIC	3.80			REFILL	EIGHT 374		78.7
SOIL PROFIL	E (IF REQUIRED)						
Depth		Depth Soil	Type Depth	Soil Type	Depth Soil 7	ype Depth	Soil Type
200	3011 1700	200111	. урс — 2-рап	1 20 1)	Zopin Con I)pe	00.1170
		lole #1	11 2 2 4			ole # 2	
Parcel: /	Diameter:	4 in De	pth: 3.26	Parcel: /	Diameter:	in De	epth: 349
Tues	Devous	Mursa Dans	Desuis	Tues	Deveno	Marsa Daga	Desiries
TIME 8:00	READING DRY	WATER DROP	REFILLED 3.34	* 05	DRV	WATER DROP	REFILLED 3-39
8.30	DRY		0.77	The second of th	DRY		3.3.7
	-		11.15	8135	DRY		297
11:00	URY 11.52	./ 2	4.10	11.04	-	Z; .	3.87
11:16	4,53	145	3,93	11:14	4.38	,31	402
11 20	4.24	.31	3.92	11.24	4.43	:41	386
11.30	4.19	12.7	3,95	11:34	4,35	.49	3.62
11 +0	4,41	·46	3.99	11:44		,60	380
11.50	7146	,47	4.15	11:54		,46	3.96
12:00	4.50	. 35		12:64	4.3,4	.38	
PERCOLATION	N RATE:	2,38	min/in	PERCOLATION	ON RATE:	.19	min/in
COMMEND!	ED SEPTIC AR	EA:		RECOMMEN	DED SEPTIC AR	EA:	
_ST PERFOR	RMED BY:	ENY RACCO		Phone: 300	3-608-2180	Date _8-	7-19
TEST CERTIFII		D(NCL		Phone: 209	-329-0198	Date 8-	1-19
OBSERVED BY	7	seen Alis		Phone 709-	64-7451	Date \$-7-	19
EHD 42-03 REV 11/2/							ERC TEST RATE FORM

FOR OFFICE USE:	APPLICATION EC	R SANITATION PERMIT	_
2:50		ete in Triplicate)	Permit No. 75- 993
		s 1 Year From Date Issued	Date Issued 12-197
Application is hereby modescribed. This application	ide to the San Joaquin Local Health on is made in compliance with Cou	District for a permit to con unty Ordinance No. 549 and	istruct and install the work herein existing Rules and Regulations:
JOB ADDRESS/LOCATIO	N 9698 Priest	Lone French Con	CENSUS TRACT
Owner's Name	& STAHOSKI		Phone
Address P.O. Box	12 Bm. 74	City Band	Phone Calif
Contractor's Name C	the feed Sewer In	License #_25	4/73 Phone 4660348
Installation will serve:		use (Commercial (Trailer C	
Number of living units			of Size 5 acres
	tem and name		
	th of 3 feet: Sand 🔯 Silt 🗌		
		Fill Material If yes,	
(Plot plan, showing size	of lot, location of system in rela-	tion to wells, buildings, etc.	must be placed on reverse side.)
	No septic tank or seepage pit pern		
		•	Liquid Depth GO
	Capacity 1200 Type Dec	est. Material Consulte	No. Compartments
	Distance to nearest: Well 90	Foundation	O Prop. Line
LEACHING LINE [] !	No. of Lines Length	of each line 80	Total Length 160 00
And the second second	D' Box Law Type Filter Materia	1/2x 3/4 Depth Filter M	aterial 8
	Distance to nearest: Well 1001		
•	Depth Digmeter		
And the state of t	Vater Table Depth		
	Distance to nearest: Well		
	Sanitation Permit #		1
Contraction on succession during the succession of the succession			······
	y Requirements)	,	
			7
			Ţ
	(Draw existing and requi	red addition on reverse side)	
	ive prepared this application and		
county Ordinances, State sed agents signature certi	Laws, and Rules and Regulations	of the San Joaquin Local He	ealth. District. Home owner or licen-
	ormance of the work for which this	permit is issued, I shall not	employ any person in such manner
	Vorkman's Compensation laws of C		all
Signed Certific	Lever Fre		old
By(If other the	Sie Cruz	Jitle Estimata	ت
District	OR DEPART	MENT USE ONLY	
APPLICATION ACCEPTED	BY C. Beef		
BUILDING PERMIT ISSUE ADDITIONAL COMMENTS	D		DATÉ
······································		····/·································	
final Inspection by:	X 1/	***************************************	Date /2/12/75
EH 13 24 1-68 Rev	· 5M OF SAN JOAQUIN LO	CAL HEALTH DISTRICT	8/74 3M

SAN JOAQUIN LOCAL HEALTH DISTRICT

8/74 3M



APPLICATION FOR PERMIT SAN JOAQUIN LOCAL HEALTH DISTRICT

1601 E. HAZELTON AVE., STOCKTON, CA Telephone (209) 466-6781

PERMIT EXPIRES 1 YEAR FROM DATE ISSUED

(Complete in Triplicate)

Application is hereby made to the San Joaquin Local Health District for a permit to construct and/or install the work herein described. This application is made in compliance with San Joaquin County Ordinance No. 549 for sewage or No. 1862 for well/pump and the Rules and Regulations of the San Joaquin Local Health District

Local Health District.		^	Λ	Condition			
Job Address	698 1	Prits r K	0	City CAN	D Lot Size	8 Ac	РМ
Owner's Name Lon	sertson/	Somisc HAddress	9698	Prest	Ro	Phone 982	-0736
Contractor	RLF	Address	•	Licens	e No	Phone	
TYPE OF WELL/PUN	AP: NE	W WELL	WELL REPLACE	EMENT []	DESTRUCTION (
	PUMP INSTA	•		REPAIR	OTHER (į
DISTANCE TO NEAR	EST: SEPTIC TAN	CSEWER				PROP. LINE	
		N AGRICU					
INTENDED USE	TYPE OF W	•		CTION SPECIFICATI			_
□ Industrial	Open Botto			ell Excavation		of Well Casino	. Ł
☐ Domestic/Private	☐ Gravel Pack		0.00 0.000 0.00 0.00 0.00	sing		cifications	
☐ Public	☐ Other	□ Delta		Grout Seal	•		ŀ
		12 1 12 12					1
l Irrigation Repair Work Done		Depth () Eastern H.P		State W	•		· · · · · · · · · · · · · · · · · · ·
0.50							
Wall Destruction				50'}			— l
TYPE OF SERVICE	Depth	Filler I	viaterial (Below	50'1			
TYPE OF SEPTIC WO	ORK: NEW INSTA	LLATION [] REPAIR/A	DITION	DESTRUCTION VIN	lo septic system p railable within 200	permitted if publi	c sewer is
Installation will sen	e: Residence	Commercial Other	A.F.		GRODIE WITHIN E.S.		ŀ
		er of bedrooms					(
		or or obditioning			Water table d	lenth	
SEPTIC TANK							
PKG. TREATMENT P				pacity		sposal	
TRO. THEATWEIGHT	Distance to	popropte Male	C	ion Pro	55.5		
	Distance to	Hedrest: Aveir	roundat	ionPro	peny Line		1
LEACHING LINE	□ No & Len	th of lines	· ·	Total lane	th /siza		
FILTER BED	☐ Distance to			tion Pr			
	Distance ic	niearest; vven	Founda	tion Pr	operty Line		
SEEPAGE PITS	11 Depth	Size		Number _			
SUMPS	[] Distance to	nearest: Well	Founda	tion Pr	operty Line		1
DISPOSAL PONDS		`\ '			. ,		1
rules and regulations Home owner or licens employ any person in certifies the following tion laws of California	of the San Joaquin sed agent's signature such manner as to be a such that in the such that in the	application and that the w Local Health District. Certifies the following: "I become subject to workman performance of the work	certify that in an's compensa- for which this	the performance of ti tion laws of California permit is issued, I shall	he work for which " Contractor's hi	n this permit is is	sued, I shall not
The applicant myst c	all for all required if	spections. Complete draw	ing on reverse	side.			
Signed X	A De	misc H Tit	tle:	inen		oate: <u>& ~ :</u>	5-88
		FOR DI	EPARTMENT			,	
· Application Accepted	ph /mo			Date	-5-85	Area1	3
Pit or Grout Inspection	in hv	Date	Eir	al Inspection by		Dat	to.
Additional Comments	· put de	a your com	Lad	ula la	cation	Seles	منت
☐ Stk 466-6781 Applicant - Return all	□ Lodi 369-362 copies to: Environn	1 ☐ Manteca 823- nental Health Permit/Serv		Tracy 835-6385 azelton Ave., P.O. B	ox 2009, Stk., CA	95201	
			Cu A				
FEE	AMOUNT DUE	AMOUNT REMITTED	CK # CASH	RECEIVED BY	DATE	PERMIT'NO	
13-24 (REV. 17 8 5)	35	35-90	COSh	10	15-5-87	88-1110	

2ND PAGE OF PERMIT IS BLANK -NO MAP FOR THIS PERMIT

APPLICATION FOR PERMIT SAN JOAQUIN LOCAL HEALTH DISTRICT

1601 E. HAZELTON AVE., STOCKTON, CA Telephone (209) 466-6781

PERMIT EXPIRES 1 YEAR FROM DATE ISSUED

(Complete in Triplicate)

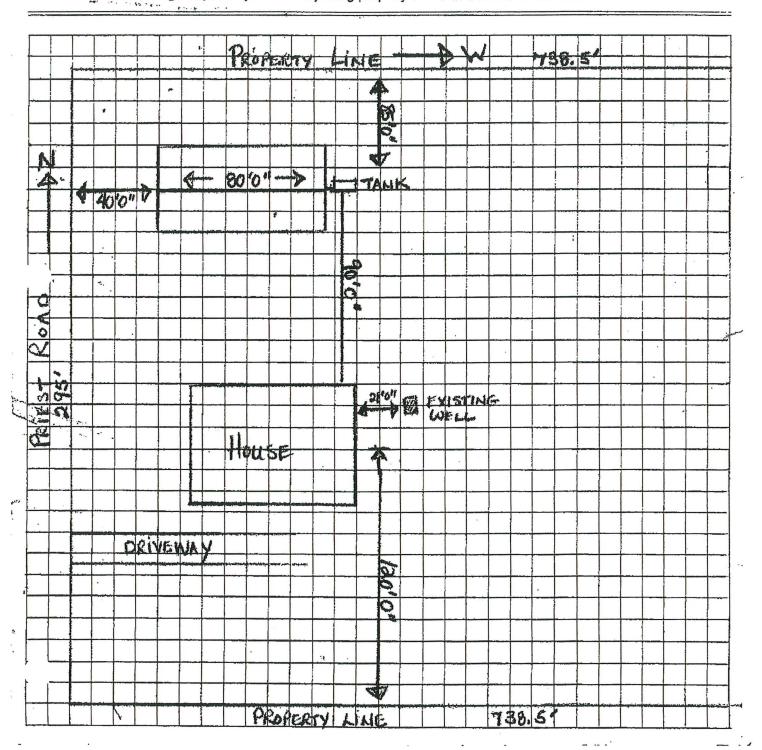
Application is hereby made to the San Joaquin Local Health District for a permit to construct and/or install the work herein described. This application is made in compliance with San Joaquin County Ordinance No. 549 for sewage or No. 1862 for well/pump and the Rules and Regulations of the San Joaquin Local Health District

Local Health District.	•	\wedge					
Job Address 96	98 PRIES	T Koad		FRENCH CH	Kot Size	PM	ł,
Rose Owner's Name AND	ERT J. SEMIS LORRI LEE-R	CH OBERTSON Address	SAME		Pho	one (29)98	2-0736
Contractor N	la	Address		License	No.	Phone	
TYPE OF WELL/PUM			VELL REPLACE		ESTRUCTION [
THE OF WELLIFON	PUMP INSTAL	•	SYSTEM R		OTHER		-
DICTANCE TO MEAD		SEWER L				AP LINE	
DISTANCE TO NEAR		AGRICUL					1
						3/30/11/3	1
INTENDED USE	TYPE OF WE			TION SPECIFICATIO			
☐ Industrial	☐ Open Botton	n Manteca		Excavation		f Well Casing _	
□ Domestic/Private	☐ Gravel Pack	☐ Tracy	Type of Cas	ing		ications	
[7] Public				out Seal		of Grout	
1 Irrigation	Approx. D	epth [] Eastern	Surface Sea	I Installed by			
Repair Work Done				State Wor			1
Well Destruction	☐ Well Diameter	Sealing	Material (top 5	50')			_
	Depth			50')			
	/	LATION REPAIR/AD		ava	septic system per liable within 200 fe		ewer is
Installation will serv	e: Residence	Commercial Other	r	_			
Number of living up	its: Number	of bedrooms 3	-			~ . /	2
Character of soil to	a depth of 3 feet: _	Sandy			_Water table dept	th 20	
SEPTIC TANK	□ Type/Mfg _	1	Capa	acity 1 6 D	No. Compartmen	nts	
PKG. TREATMENT P	LT. 🗆		,	2 1	Method of Dispo	sal	
	Distance to	nearest: Well /bD	Foundatio	n 90' Prop	erty Line		=
							1
LEACHING LINE	El No. & Lengt	th of lines 3		Total length	/size ZYU	(3×80))(
FILTER BED	☐ Distance to	nearest: Well >/o	Foundation	on 80 Pro	perty Line 70		-
SEEPAGE PITS	[] Depth	Size		Number			
SUMPS	L) Distance to			on Proj			(
DISPOSAL PONDS							_
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Additional Comments	:						
☐ Stk 466-6781	☐ Lodi 369-3621	☐ Manteca 823-7	7104 🗀 Ta	acy 835-6385			
Applicant - Return all	copies to: Environm	ental Health Permit/Servi			2009, Stk., CA 9	5201	
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PLOT PLAN (Draw To Scale) SCALE 4 "TO 10'0"

- 1. Names of streets or roads nearest to or bounding the property.
- 2. Outline of the property, giving dimensions and North direction.
- 3. Dimensioned outlines and locations of all existing and proposed structures, including covered areas such as patios, driveways and walks.
- 4. Location of house sewer outlet, public sewer, sewage disposal system or proposed sewage disposal system, proposed expansion of sewage disposal system, or any other possible source of contamination.
- 5. Location of other wells within radius of 150 feet on the property or adjoining property.
- 6. Location of sewage disposal system on adjoining property or within a radius of 150 feet.



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WELL PUMP PEALIT

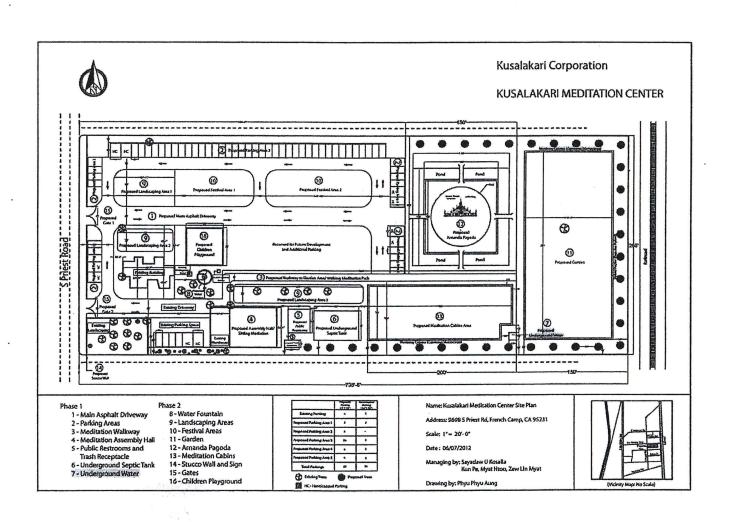
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EHD 43-08

WELL/PUMP PERMIT

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EHD 43-08 4/30/12



SAN JOAQUIN COUNTY

ENVIRONMENTAL HEALTH DEPARTMENT

1868 East Hazelton Avenue, Stockton, CA 95205-6232 Telephone: (209) 468-3420 Fax: (209) 468-3433 Web: www.sjgov.org/ehd

PUMP INSPECTION CHECK LIST

Address: 98 Mod Ld.				Permit#:	525	Inspection Date:
Parameter/Standard	Comments/Measurements/ Recommendations					
CEMENT PEDESTAL:	1					
Dimensions of surface seal (2'x2'x4" minimum)	Yes 🛭	No□	NA 🗌			
Casing extends at least 12" above grade	Yes 📈	No 🗌	NA 🗌			
Casing extends at least 1" above pedestal	Yes 🖄	No 🗌	NA 🗌			
Free of cracks/contiguous with annular seal	Yes ⋈	No 🗌	NA 🗌	4		
Graded to allow drainage away from casing	Yes 🛛	No 🗌	NA 🗌			
SANITARY SEAL:						
Well is sealed between pump and casing	Yes 🕅	No 🗌	NA 🗌			
Seal between all pipe columns and casing	Yes⊠	No 🗌	NA 🗌			
Sounding tube/air vents sealed properly	Yes 🗌	No 🗌	NA 🗵			
Chlorination port available and sealed properly	Yes 🗵	No 🗌	NA 🗌			
SAMPLE TAP AND BACKFLOW PREVENTION						
Non-threaded sample tap between well head and check valve or within 3' of well head	Yes ⊀	No 🗌	NA 🗌			
Adequately installed check valve or BFP device	Yes 🖭	No 🗌	NA 🗌			
No cross connections (ex: chemical feeders hooked to distribution system/ag flood irrigation from domestic supply)	Yes 🗆	No 🗆	NA 🕢			
Air gap of at least 6" (same as pipe diameter)	Yes 🗌	No 🗌	NA K			
MAINTENANCE:		A Language Control of the Control of				
Well/Pump visible and protected from damage	Yes 🛛	No 🗌	NA 🗌			
Well/Pump free from excessive vegetation	Yes 🗹	No 🗌	NA 🗌			
MISCELLANEOUS:		b.				
Permit drawing represents actual location of well		Yes 🛚	No 🗌			
Permit drawing sufficient to locate well in future		Yes 🗹	No 🗆	If 'no' is selected	i, attach an accur	ate map to permit
Photograph taken and attached to record		Yes 🛚	No 🗌			
OTHER:					And the second s	
Comments: NINE						
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Inspected By: Tro Troiseas		***************************************		Title: SR R	EF	
Received By:				Date:		

*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 State of California DWR Use Only - Do Not Fill In **Well Completion Report** Page 1 of 1 Refer to Instruction Pamphlet Owner's Well Number 2015-1 No. e0285958 Date Work Began 09/28/2015 Date Work Ended 10/21/2015 Latitude Local Permit Agency San Joaquin Environmental Health Department APN/TRS/Other Permit Number SR0072524 Permit Date 6/24/15 Geologic Log Well Owner Orientation OVertical O Horizontal OAngle Name Kusalakari Corporation **Drilling Method Drilling Fluid** Mailing Address 40174 Spady Ct. Depth from Surface Description Zip 94538 State CA City Freemont Describe material, grain size, color, etc 15 Fine & medium light brown sand. Well Location 15 20 Fine & medium sand with some claystone Address 9698 S. Priest Rd. 20 37 Fine & medium sand w/ some claystone. County San Joaquin City French Camp N Longitude _____ Multi-color & pyrite. Latitude . Min. Sec. 37 50 Light brwn clay w/ med. & coarse sands multi-color Dec. Lat. 37,870436 Dec. Long. -121.266374 50 68 Creamy white clay w/ sands. APN Book 193 Page 220 Parcel 15 68 80 Super fine sand w/ light brwn clay & coarse sand ___Range_ Section . Township _____ 80 96 Med. & fine sand multi-colors 96 185 Clay w/ multi-colored sands **Location Sketch** Activity (Sketch must be drawn by hand after form New Well 200 185 Clay & fine sand North O Modification/Repair 200 230 Medium sand multi-colors O Deepen 230 245 Medium sand multi-colors w/ small gravel O Other_ O Destroy 245 267 Blue shale w/ small gravels 270 267 Sandy blue shale clay w/ medium sands Planned Uses 270 285 Fine shale sand w/ med. multi-colored sands Water Supply 285 300 Blue Shale like clay ☑ Domestic ☐ Public ☐Imigation ☐Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation OCT 22 2015 O Sparging O Test Well South **ENVIRONMENTAL HEALTH** O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences rivers, etc. and sittach a map. Use sidditional paper if necessary. Please be accurate and complete, O Other PERMIT/SERVICES Water Level and Yield of Completed Well (Feet below surface) Deoth to first water Depth to Static
Water Level 32 (Feet) Date Measured 10/02/2015 Estimated Yield * 40 (GPM) Test Type Air Lift Total Depth of Boring (Hours) Total Drawdown 60 Test Length 1.0 (Feet) Total Depth of Completed Well 300 Feet *May not be representative of a well's long term yield. Annular Material Casings Depth from Wall Outside Screen Depth from Borehole Material Туре Description Diameter Thickness Diameter If Any Surface Surface Feet to Feet Feet to Fee (inches) (Inches) (Inches) (Inches) Sand/Slurry Blank 212 Grout **SDR-17** 327 5.563 230 11 PVC 0.032 212 300 Sand #8 SDR-17 PVC .327 5.563 Screen 230 250 11 250 270 **SDR-17** PVC .327 5.563 Blank 11 SDR-17 327 Screen 0.032 270 290 11 PVC 5.563 290 300 11 **SDR-17** PVC 327 5.563 Blank Certification Statement **Attachments** i, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name Martell Water Systems, Inc. ☐ Geologic Log ☐ Well Construction Diagram Person, Flrm or Corporation ☐ Geophysical Log(s) 1818 Loveridge Rd. 94565 Pittsburg CA ☐ Soil/Water Chemical Analyses Address 10-8-15 510952 Date Signed C-57 License Number Other _ C-57 Leensed Water Well Contractor Attach additional information, if it exists

W

APPLICATION FOR LIQUID WASTE PERMIT SAN JOAQUIN COUNTY PUBLIC HEALTH SERVICES ENVIRONMENTAL HEALTH DIVISION 304 EAST WEBER AVENUE, STOCKTON, CA 95202 (209) 468-3420

001145

(209) 468-3420 NON-REFUNDABLE PERMIT EXPIRES I YEAR FROM DATE ISSUED (Complete in Triplicate)
CONSTRUCT AND/OR INSTALL THE W APPLICATION IS HEREBY MADE TO THE BAN JOAQUIN COUNTY EVELOPMENT TITLE, CHAPTER B-1110.3 AND THE BTANDA LOT BIZ DACKS murere Sprouse DESTRUCTION [INO BEPTIC SYSTEM PERMITTED IF PUBLIC SEWER IS AVAILABLE WITHIN 200 FEET OF BUILDING. UNBTALLATION WILL BETVE: PESIOENCE COMMERCIAL O 30THER O NUMBER OF BEDROOMS: CHARACTER OF SOIL TO A DEPTH OF 3 FEET: AND SEPTIC TANGUOMEASH THAP 1 TYPEMATO ONC Spreed ACTY 1600 PKG TREATMENT PLANT | DISTANCE TO NEAREST: FOUNDATION LIFT STATION A SIZE TYPE OF PUMP SAND DIL SEPARATOR (ENCLOSED SYSTEM) A NO. & LENGTH OF LINES 3 - 80 FOUNDATION_/O DISTANCE TO NEAREST: WELL 50 PLYER SED FOUNDATION PROPERTY LINE □ WIDTH LENGTH DEPTH DISTANCE TO NEAREST: WELL FOUNDATION PROPERTY LINE SEEPAGE PITS D DEPTH SIZE NUMBER ☐ WIDTH SUMP4 LENGTH DISTANCE TO NEAREST: WELL DISPOSAL PONDS □ WIDTH DISTANCE TO NEAREST; WELL I HEREN CERTIFY THAT I HAVE PREPARED THIS APPLICATION AND THAT THE WORK WILL BE DONE IN ACCORDANCE WITH SAN JOAQUIN COUNTY ORDINANCES AND STATE LAWS, AND TRACE AND REQUILATIONS OF THE WAY JOAQUIN COUNTY. HOME OWNER OR LICENSED AGENT'S BRONATURE CERTIFIES THE FOLLOWING: "LICENTIFY THAT IN THE PERSONAMANCE OF THE WORK FOR WHEN AND RECOVERY AND THE PROPARATION LAWS OF CALIFORMA." CONTRACTOR'S HISING OR SUBJECT TO WORK MAY BE CONTRACTOR'S HISING OR THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY WHEN THE PERSON HAS BUSINESS OF THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY BE CERTIFIED THE CONTRACTOR'S HISING OR THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY BE CERTIFIED THE CONTRACTOR'S HISING OR THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY BE CERTIFIED THE CONTRACTOR'S HISING OR THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY BE CERTIFIED THE CONTRACTOR'S HISING OR THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY BE CERTIFIED THE CONTRACTOR'S HISING OR THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY BE CERTIFIED. I SHALL END PROVINCE THAT WHICH THAT WE WAS AND WELLOW TO THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY BE CERTIFIED. THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY BE COMPUTED THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY BE COMPUTED THE WORK FOR WHICH THIS PERSON IS SUBJECT TO WORK MAY BE COMPUTED. THE WORK FOR WHICH THE PERSON IS SUBJECT TO WORK MAY BE COMPUTED THE WORK FOR WHICH THE PERSON IS SUBJECT TO WORK MAY BE COMPUTED THE WORK FOR WHICH THE PERSON IS SUBJECT TO WORK MAY BE WELLOW. Moston 980 Sr. Pres PLOT PLAN (DRAW TO SCALE) SCALE NAMES OF STREETS OR ROADS MEAREST TO OR BOUNDING THE PROPERTY.
OUTLINE OF THE PROPERTY, WITH DIMENSIONS AND MORTH DIMECTION.
DIMENSIONED OUTLINES AND LOCATION OF ALL EXISTING AND PROPOSED STRUCTURES. 4. LOCATION OF HOUSE SEWAGE DISPOSAL SYSTEM OR PROPOSED EXPANSION OF SEWAGE DISPOSAL SYSTEMS.
5. LOCATION OF WELLE WITHIN KADNIS OF ONE HUNDRED FIFTY FT.
THE PROPERTY OR ADJOINING PROPERTY. IG COVERED AREAS SUCH AS PATIOS, DRIVEWAYS, AND WALKS + Z' well House 05% STATE AND THE PROPERTY OF STATE OF STAT APPLICATION ACCEPTED BY TANK, PIT OR SUMP INSPECTION

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APPLICATION

SAN JOAQUIN COUNTY PUBLIC HEALTH SERVICES ENVIRONMENTAL HEALTH DIVISION 445 N SAN JOAQUIN, PHONE (209)468-3420 P O BOX 2009, STOCKTON, CA 95201

PERMIT EXPIRES 1 YEAR FROM DATE ISSUED (Complete in Triplicate)

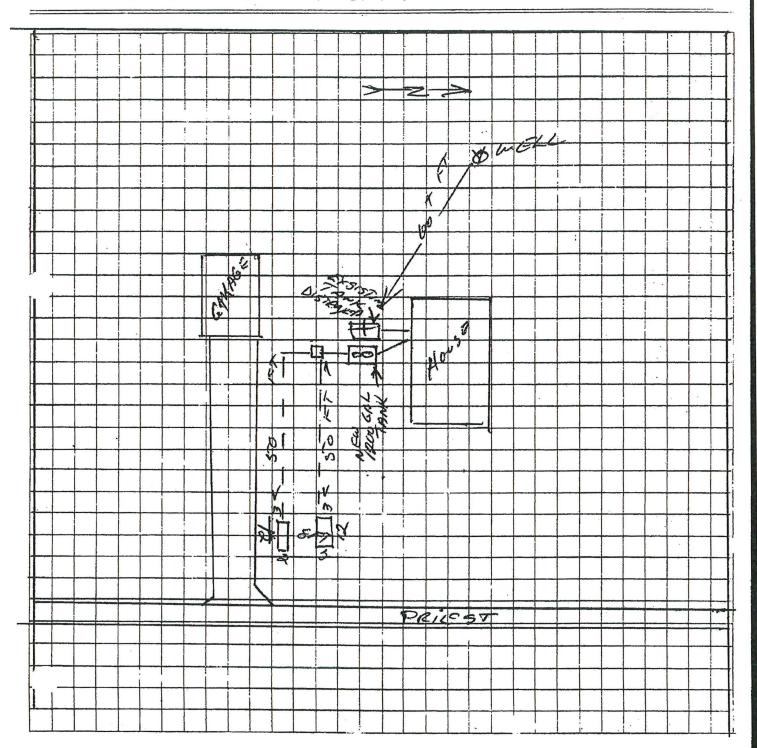
Application is hereby made to San Joaquin County for a permit to construct and/or install the work herein described. This application is made in compliance with San Joaquin County Ordinance No. 549 and 1862 and the Rules and Regulations of San Joaquin County Public Health Services. PRIEST RD City FRENCH Lot Size/Acreage S. Address _ PO 149 MTEN License No. 225582 Phone 5584251 TYPE OF WELL/PUMP: WELL REPLACEMENT Monitoring Well OTHER [] PUMP INSTALLATION [SYSTEM REPAIR PROP. LINE DISTANCE TO NEAREST: SEPTIC TANK ______ SEWER LINES _____ DISPOSAL FLD.___ AGRICULTURE WELL _____ OTHER WELL _____ PITS/SUMPS FOUNDATION _ TYPE OF WELL PROBLEM AREA CONSTRUCTION SPECIFICATIONS INTENDED USE Open Bottom ☐ Manteca Dia, of Well Excavation ____ Dia. of Well Casing ☐ Industrial Specifications -Gravel Pack ☐ Tracy Type of Casing____ [] Domestic/Private Depth of Grout Seal ____ Type of Grout_ [] Other [1] Public □ Delta Surface Seul Installed by ___ ___ Approx. Depth | | Eastern 1 | Irrigation Repair Work Done [] Type of Pump __ __ H.P. . _____ State Work Done _ Sealing Material & Depth Well Destruction Well Diameter Filler Material & Depth Ø TYPE OF SEPTIC WORK: NEW INSTALLATION [] REPAIR/ADDITION DESTRUCTION [] (No septic system permitted if public sewer is available within 200 feet.) 9 Installation will serve: Residence Commercial _ (1 Number of living units: ____ Number of bedrooms _ Character of soil to a depth of 3 feet: __ ___Water table depth. Capacity / 2002 No. Compartments SEPTIC TANK ☐ Type/Mfg __ PKG. TREATMENT PLT. Well Land Foundation 13' DAD Property Line 65 Distance to nearest: No. & Length of lines _ 50 FT LEACHING LINE Well Foundation 25/FT Property Line 15 FILTER BED ☐ Distance to nearest: 1 11 Depth SET Size 2 × 12 × 8' Number 2 1 SEEPAGE PITS HOE Distance to nearest: SUMPS DISPOSAL PONDS I hereby certify that I have prepared this application and that the work will be done in accordance with San Joaquin county ordinances, state laws, and rules and regulations of the San Joaquin County Home owner or licensed agent's signature certifies the following: "I certify that in the performance of the work for which this permit is issued, I shall not employ any person in such manner as to become subject to workman's compensation laws of California." Contractor's hiring or sub-contracting signature certifies the following: "I certify that in the performance of the work for which this permit is issued, I shall employ persons subject to workman's compensation laws of California." The applicant must call for all required inspections. Complete drawing on reverse side. Title: Condrawo FOR DEPARTMENT USE ONLY Application Accepted by Pit or Grout Inspection by Additional Comments: Applicant - Return all copies to: San Joaquin County Public Health Services Environmental Health Permit/Services 445 N San Joaquin, P O Box 2009, Stkn, CA 95201 AMOUNT DUE AMOUNT REMITTED PERMIT' NO.

EH 13-24 (REV. 1/H 5) SR

PLOT PLAN (Draw To Scale)

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- 1. Names of streets or roads nearest to or bounding the property.
- 2. Outline of the property, giving dimensions and North direction.
- 3. Dimensioned outlines and locations of all existing and proposed structures, including covered areas such as patios, driveways and walks.
- 4. Location of house sewer outlet, public sewer, sewage disposal system or proposed sewage disposal system proposed expansion of sewage disposal system, or any other possible source of contamination.
- 5. Location of other wells within radius of 150 feet on the property or adjoining property.
- 6. Location of sewage disposal system on adjoining property or within a radius of 150 feet.



APPLICATION FOR LIQUID WASTE PERMIT

SAN JOAQUIN COUNTY PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH DIVISION
P.O. BOX 388, 445 N. SAN JOAQUIN ST., STOCKTON, CA 95201-0388
(209) 488-3420



NON-REFUNDABLE PERMIT EXPIRES 1 YEAR FROM DATE ISSUED (Complete in Triplicate)

JOAQUIN COUNTY	DEVELOPMENT	TILE, CHAPTER 9-1110.3	Y FOR A PERMIT TO	Construct and/or DS of San Joaquin	COUNTY PUBLIC HE	ALTH SERVICES, ENVIRONMENTAL I	HEALTH DIVISION.	
JOB ADDRESS/OR A	MD 97-	33 So Pr	Est 1	5D	cr	Trench Can	1 LOT SIZE	-
OWNER'S NAME R	LIMA	LIAMS	ADORESS	SAME			PHONE	- ,
CONTRACTOR N	ATTA	ALL	ADDRE68	<u>3883.5</u>	O FLD	10 radouce 43082	9 FHONE 98256	H
SUB CONTRACTOR_			ADDRE88			LIC#	PHONE	- '
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INO SEPTIC SYSTEM	PERMITTED IF	PUBLIC SEWER IS AVAILAB	LE WITHIN 200 FEET	OF BUILDING.)		PERC YESY(s) [] H	YMAM WO	
Excellent				,		Application #]
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UFT STATION		TYPE OF PUMP		OIL SEPARATOR (ENC			- /-/	7
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GUMPS	☐ WIDTH	LENGTH	DEPTH		NEAREST: WELL		PROPERTY LINE	- '
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		Contraction Co.	1/4	FOR DEPARTMENT US	E ONLY	, ,		•
APPLICATION ACCE	PTED BY	C. Br	who		DATE:	11/15/94	AREA: 218	_
TANK, PIT OR SUMI		Telon	earl	DATE [] 114 9	GANAL INSPECTI	ON BY TO D MAKE	and DATE 11/49	50
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APPLICATION FOR PERMIT

SAN JOAQUIN LOCAL HEALTH DISTRICT

1601 E. HAZELTON AVE., STOCKTON, CA Telephone (209) 466-6781

PERMIT EXPIRES 1 YEAR FROM DATE ISSUED

(Complete in Triplicate)

Application is hereby made to the San Joaquín Local Health District for a permit to construct and/or install the work herein described. This application is made in compliance with San Joaquin County Ordinance No. 549 for sewage or No. 1862 for well/pump and the Rules and Regulations of the San Joaquin.
Local Health District. 9553 Parcel A
Job Address 4549 S. PRIEST RD City FC Lot Size 109X504 PM83-78
Job Address 734/2: RIES/ IED City 7 C Lot Size 107/307 PM 02 70
Owner's Name W. P. CALIE Address SAME Phone 982-4820
Contractor's Name FLOYD E. WOOD License No. 42527-6 Phone 465-3971
TYPE OF WELL/PUMP: . NEW WELL . WELL REPLACEMENT . DESTRUCTION .
PUMP INSTALLATION ☐ SYSTEM REPAIR ☐ OTHER ☐
DISTANCE TO NEAREST: SEPTIC TANK SEWER LINES DISPOSAL FLD PROP. LINE
FOUNDATION AGRICULTURE WELL OTHER WELL PITS/SUMPS
INTENDED USE TYPE OF WELL PROBLEM AREA CONSTRUCTION SPECIFICATIONS
☐ Industrial ☐ Open Bottom ☐ Manteca Dia. of Well Excavation Dia. of Well Casing
□ Domestic/Private □ Gravel Pack □ Tracy Type of Casing Specifications
□ Public □ Other □ Delta □ Depth of Grout Seal Type of Grout
☐ IrrigationApprox. Depth ☐ Eastern Surface Seal Installed by
Repair Work Done Type of Pump H.P. State Work Done
Well Destruction
Pillel Material (Below 60 /
nyallable within 200 feet 1
Installation will serve: Residence Commercial Other
Number of living units:/_ Number of bedrooms3
Character of soil to a depthy of 3 feet: SANDY LAAM Water table depth
SEPTIC TANK Type/Mfg CCT P4L Capacity 1600 No. Compartments 2
PKG TREATMENT PLT () A
PKG. TREATMENT PLT. Distance to nearest: Well 70 Foundation 15 Property Line
PKG. TREATMENT PLT. Distance to nearest: Well 70 Foundation 15 Property Line 20 Property Line 20 Distance to nearest: Well 70 Property Line 20 Distance 10 Pr
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PKG. TREATMENT PLT. Distance to nearest: Well 70' Foundation 15' Property Line 20' LEACHING LINE Distance to nearest: Well 100 Foundation 140' Property Line 20' FILTER BED Distance to nearest: Well 100 Foundation 140' Property Line 20' No. & Length of lines 3 - 80' Total length/size 2 10' X 7' FILTER BED Distance to nearest: Well 100 Foundation 140' Property Line 20'
PKG. TREATMENT PLT. Distance to nearest: Well 70' Foundation 15' Property Line 20' LEACHING LINE No. & Length of lines 3-80' Total length/size 240' X 7' FILTER BED Distance to nearest: Well 100+ Foundation 140' Property Line 20' No. & Length of lines 3-80
PKG. TREATMENT PLT. Distance to nearest: Well 70 Foundation 1 Property Line 20 X Z Y LEACHING LINE No. & Length of lines 3 - 80 Total length/size 2 10 X Z Y FILTER BED Distance to nearest: Well 100 Foundation 1 10 Property Line 20 X X Z Y SEEPAGE PITS Depth Size Number
Distance to nearest: Well 70 Foundation Property Line 20 SEEPAGE PITS Depth Size No. & Length of lines Size Number Distance to nearest: Well Foundation Property Line 20 Size Number Distance to nearest: Well Foundation Property Line 20 Size Number Distance to nearest: Well Foundation Property Line Distance to nearest Property Li
Distance to nearest: Well 70 Foundation Property Line 20 SEEPAGE PITS Distance to nearest: Well 100 Foundation 140 Property Line 20 SIZE Number Distance to nearest: Well Foundation Property Line 20 SIZE Number Distance to nearest: Well Foundation Property Line 20 SIZE Number Distance to nearest: Well Foundation Property Line DISPOSAL PONDS SIZE Number Sumps Disposal Halt have prepared this application and that the work will be done in accordance with San Joaquin county ordinances, state laws, and rules and regulations of the San Joaquin Local Health District.
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Distance to nearest: Well 70 Foundation 1 Property Line 20 Foundation 1 Property Line 20 Foundation 2 Property Line 20 Foundat
PKG. TREATMENT PLT. Distance to nearest: Well 70 Foundation Property Line Distance to nearest: Well 100 Foundation Property Line 20 No. & Length of lines 3 - 80 Total length/size 20 X 7 Total length/size 70 X 7 Total length/size 100 Property Line 20 SEEPAGE PITS Depth Size Number Sizes Number SUMPS Distance to nearest: Well Foundation Property Line DISPOSAL PONDS I hereby certify that I have prepared this application and that the work will be done in accordance with San Joaquin county ordinances, state laws, and rules and regulations of the San Joaquin Local Health District. Home owner or licehyead agent's signature certifies the following: "I certify that in the performance of the work for which this permit is issued, I shall not employ any person in such manner as to become subject to workman's compensation laws of California." Contractor's hiring or sub-contracting signature certifies the following: "I certify that in the performance of the work for which this permit is issued, I shall employ persons subject to workman's compensation laws of California." The applicant must call for all required inapactions: Complete drawing on reverse side. Signed X
Distance for nearest: Well 70' Foundation 1' Property Line 20' LEACHING LINE No. & Length of lines 3-90' Total length/size 2-10' X 7' FILTER BED Distance to nearest: Well 100' Foundation 1' Property Line 20' SEEPAGE PITS Depth Size Number SUMPS Distance to nearest: Well Foundation Property Line Distance on the San Joaquin Local Health District. Home owner or licehead agent's signature certifies the following: "I certify that in the performance of the work for which this permit is issued, I shall not employ any person in such manner as to become subject to workman's compensation laws of California." Contractor's hiring or sub-contracting signature certifies the following: "I certify that in the performance of the work for which this permit is issued, I shall employ persons subject to workman's compensation laws of California." The applicant must call for all required inspections. Complete drawing on reverse side. Signed X Many Warry Date Final Inspection by Date Date 2-11-85 FOR DEPARTMENT USE ONLY Application Accepted by Date Final Inspection by Date Date 2-14-85 Area Date 2-14-85 Additional Comments:
PKG. TREATMENT PLT. Distance to nearest: Well 70 Foundation Property Line Distance to nearest: Well 100 Foundation Property Line 20 No. & Length of lines 3 - 80 Total length/size 20 X 7 Total length/size 70 X 7 Total length/size 100 Property Line 20 SEEPAGE PITS Depth Size Number Sizes Number SUMPS Distance to nearest: Well Foundation Property Line DISPOSAL PONDS I hereby certify that I have prepared this application and that the work will be done in accordance with San Joaquin county ordinances, state laws, and rules and regulations of the San Joaquin Local Health District. Home owner or licehyead agent's signature certifies the following: "I certify that in the performance of the work for which this permit is issued, I shall not employ any person in such manner as to become subject to workman's compensation laws of California." Contractor's hiring or sub-contracting signature certifies the following: "I certify that in the performance of the work for which this permit is issued, I shall employ persons subject to workman's compensation laws of California." The applicant must call for all required inapactions: Complete drawing on reverse side. Signed X

EH 13-24 (REV. 10/83) EH 14-26 2-11-85

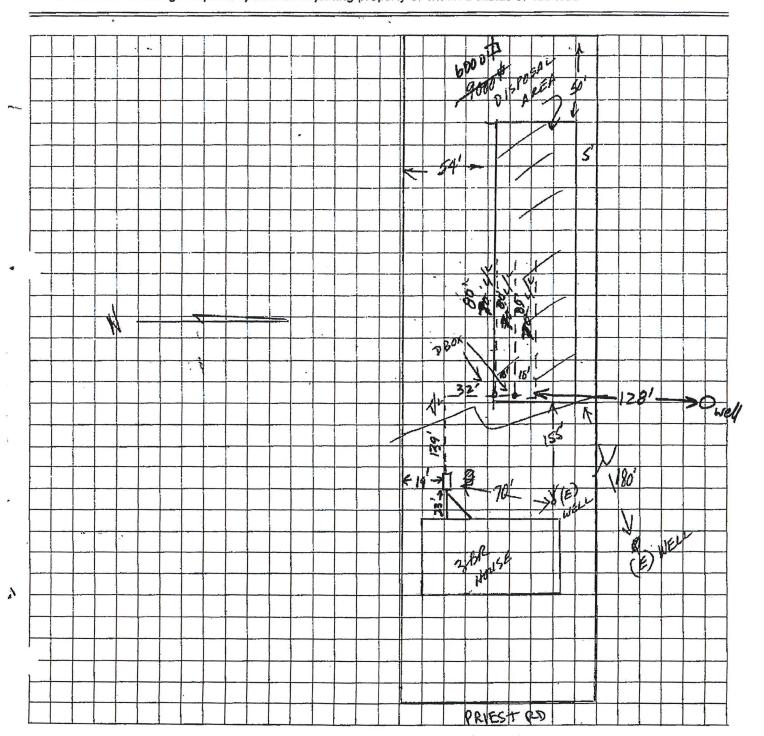
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PLOT PLAN (Draw To Scale)

SCALE	" TO	
SUALE		

- 1. Names of streets or roads nearest to or bounding the property.
- 2. Outline of the property, giving dimensions and North direction.
- 3. Dimensioned outlines and locations of all existing and proposed structures, including covered areas such as patios, driveways and walks.
- 4. Location of house sewer outlet, public sewer, sewage disposal system or proposed sewage disposal system, proposed expansion of sewage disposal system, or any other possible source of contamination.
- 5. Location of other wells within radius of 150 feet on the property or adjoining property.
- 6. Location of sewage disposal system on adjoining property or within a radius of 150 feet.



APPLICATION FOR LIQUID WASTE PERMIT SAN JOAQUIN COUNTY PUBLIC HEALTH SERVICES ENVIRONMENTAL HEALTH DIVISION P.O. BOX 388, 446 N. SAN JOAQUIN ST., STOCKTON, CA 96201-0388

(209) 468-3420

19322005

MON-REFUNDABLE PERMIT EXPIRES 1 YEAR FROM DATE ISSUED (Complate in Triplicate) APPLICATION IS HEREBY MADE TO THE SAN JOAQUIN COUNTY FOR A PERMIT TO CONSTRUCT AND/OR INSTALL THE WORK DESCRIBED. THIS APPLICATION IS MADE IN COMPLIANCE WITH SAN JOAQUIN COUNTY DEVELOPMENT TITLE, CHAPTER 9-1110.3 AND THE TAYLOROOD OF SAN JOAQUIN COUNTY PUBLIC HEALTH SERVICES, ENVIRONMENTAL HEALTH DIVISION.

JOB ADDRESS/OR AP	<u> 9553 S.F</u>	Priest Rd	0 == .	cny	Franch Co.	LOT BIZE	1092504
OWNER'S NAME_U	S.P. Calif	ADDRESS	4553	Priest	Kd	PHONE 982-	4820
CONTRACTOR D	envis Ogilvie	ADDRESS_	104 E YOU	ckshire De	uc. 142	392 PHONE 478	-8A10
SUB CONTRACTOR_		ADDRESS	Stock	m 9570	l uca	PHONE	
TYPE OF BEPTIC WOR	K: HEW INSTALLAT	ON CI REPAIRVA	DOLTION THE	DESTRUCTION [
INO BEPTIC SYSTEM	PERMITTED IF PUBLIC SEWER IS	AVAILABLE WITHIN 200 FEET	OF BUILDING.			I HOW MANY	
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August 14, 2019

Live Oak Geo Environmental

407 W. Oak Street

Lodi, CA 95240

Lab ID

: STK1951306

Customer

: 3-16608

Laboratory Report

Introduction: This report package contains total of 7 pages divided into 3 sections:

Case Narrative

(2 pages): An overview of the work performed at FGL.

Sample Results

(3 pages): Results for each sample submitted.

Quality Control

(2 pages): Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID#	Matrix
Travel Blank	08/02/2019	08/02/2019	STK1951306-000	LBW
Domestic Well	08/02/2019	08/02/2019	STK1951306-001	DW

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Organic QC

504	08/10/2019:209081 All preparation quality controls are within established criteria
504.1	08/11/2019:212253 All analysis quality controls are within established criteria

Inorganic - Wet Chemistry QC

4500NO3F	08/06/2019:211992 All analysis quality controls are within established criteria
	08/06/2019:208904 All preparation quality controls are within established criteria

August 14, 2019

Live Oak Geo Environmental

Lab ID

: STK1951306

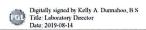
Customer

: 3-16608

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By Kelly A. Dunnahoo, B.S.





Lab ID

: STK1951306-000

Customer ID: 3-16608

Live Oak Geo Environmental

407 W. Oak Street

Lodi, CA 95240

August 14, 2019

Sampled On : August 2, 2019-11:15

Sampled By

: Tony Racco

Received On : August 2, 2019-13:35

Matrix

: Lab. Blank Water

Description

: Travel Blank

Project

: Kusalakari,9698 S. Priest Rd. French Camp, CA

Sample Result - Organic

Constituent	Result	POL	Units	Note	Sample Preparation		Sample Analysis	
Constituent	Kesuit	TQL	Oilts	Note	Method	Date/ID	Method	Date/ID
EPA 504.1								
1,3-Dibromopropane [‡]	112	70-130	%		504	08/10/19:209081	504.1	08/11/19:212253
DBCP	ND	0.01	ug/L		504	08/10/19:209081	504.1	08/11/19:212253
EDB	ND	0.02	ug/L		504	08/10/19:209081	504.1	08/11/19:212253

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.



August 14, 2019

Lab ID

: STK1951306-001

Customer ID: 3-16608

Live Oak Geo Environmental

407 W. Oak Street

Lodi, CA 95240

Sampled On : August 2, 2019-11:15

Sampled By

: Tony Racco

Received On : August 2, 2019-13:35

Matrix

: Drinking Water

Description

: Domestic Well

Project

: Kusalakari,9698 S. Priest Rd. French Camp, CA

Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample	Preparation	Sampl	e Analysis
Constituent	Result	TQL	Oilts	MCDAL	Method	Date/ID	Method	Date/ID
Wet Chemistry								
Nitrate Nitrogen	22.6	0.2	mg/L	10	4500NO3F	08/06/19:208904	4500NO3F	08/06/19:211992

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.



August 14, 2019

Lab ID

: STK1951306-001

Customer ID: 3-16608

Live Oak Geo Environmental

407 W. Oak Street

Lodi, CA 95240

Sampled On : August 2, 2019-11:15

Sampled By

: Tony Racco

Received On : August 2, 2019-13:35

Matrix

: Drinking Water

Description

: Domestic Well

Project

: Kusalakari,9698 S. Priest Rd. French Camp, CA

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample	Preparation	Sampl	e Analysis	
Constituent	Kesuit	TQL	Onits	WICLIAL	Method	Date/ID	Method	Date/ID	
EPA 504.1									
1,3-Dibromopropane [‡]	101	70-130	%		504	08/10/19:209081	504.1	08/11/19:212253	
DBCP	ND	0.01	ug/L	0.2	504	08/10/19:209081	504.1	08/11/19:212253	
EDB	ND	0.02	ug/L	0.05	504	08/10/19:209081	504.1	08/11/19:212253	

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.



August 14, 2019 Live Oak Geo Environmental Lab ID

: STK1951306

Customer

: 3-16608

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
1,2-Dibromoethane(EDB)	504	08/10/19:209081SBL	Blank	ug/L		ND	< 0.02	
1,2 Diotomoculano(200)	501	00/10/17:20/00/10/2	LCS	ug/L	0.2448	69.9 %	70-130	
			LCS	ug/L	0.2450	88.6 %	70-130	
			MS	ug/L	0.2453	94.0 %	70-130	
		(STK1951165-001)	MSD	ug/L	0.2485	87.8 %	70-130	
		(0111751105 001)	MSRPD	ug/L	0.5832	5.5%	≤30	
			QMDL	ug/L	0.01953	120 %	60-140	
1,3-Dibromopropane	504	08/10/19:209081SBL	Blank	ug/L	0.5899	108 %	70-130	
1,5-Diotomopropane	304	06/10/19.2090613BL	LCS		0.5744	99.2 %	70-130	
			LCS	ug/L	0.5744	94.5 %	70-130	
			MS	ug/L				
		(CT)(1051165 001)		ug/L	0.5756	98.6 %	70-130	
		(STK1951165-001)	MSD	ug/L	0.5832	92.2 %	70-130	
			MSRPD	ug/L	0.5832	5.4%	≤30	
			QMDL	ug/L	0.5773	108 %	70-130	
DBCP	504	08/10/19:209081SBL	Blank	ug/L		ND	< 0.01	
			LCS	ug/L	0.2448	70.4 %	70-130	
			LCS	ug/L	0.2450	93.6 %	70-130	
			MS	ug/L	0.2453	98.1 %	70-130	
		(STK1951165-001)	MSD	ug/L	0.2485	95.2 %	70-130	
			MSRPD	ug/L	0.5832	1.7%	≤30	
			QMDL	ug/L	0.01953	93.4 %	60-140	
13DBP	504.1	08/11/19:212253SBL	CCV	ug/L	7.481	94.4 %	70-130	
			CCV	ug/L	9.975	105 %	70-130	
DBCP	504.1	08/11/19:212253SBL	CCV	ug/L	2.000	102 %	70-130	
,		A COLOR AND COLO	CCV	ug/L	5.000	109 %	70-130	
EDB	504.1	08/11/19:212253SBL	CCV	ug/L	2.000	96.5 %	70-130	
			CCV	ug/L	5.000	92.6 %	70-130	

Definition
CCV

: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.

Blank

: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

LCS

MS

: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery. : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample

matrix affects analyte recovery.

MSD

: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries

are an indication of how that sample matrix affects analyte recovery.

MSRPD

: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation

ND

: Non-detect - Result was below the DQO listed for the analyte.

DQO

: Data Quality Objective - This is the criteria against which the quality control data is compared.

August 14, 2019

MSRPD

DQO

Live Oak Geo Environmental

Lab ID

: STK1951306

Customer

: 3-16608

Quality Control - Inorganic

Constituent		Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note		
Wet Chem											
Nitrate + Nitrit	e as N	4500NO3F		MS	mg/L	28.04	36.6 %	5-285			
			(SP 1910181-001)	MSD	mg/L	28.04	37.7 %	5-285			
				MSRPD	mg/L	28.04	1.5%	≤30.4			
		4500NO3F	08/06/19:211992JDD	CCB	mg/L		0.092	0.2			
				CCV	mg/L	11.22	93.3 %	90-110			
				CCB	mg/L		0.194	0.2			
				CCV	mg/L	11.22	94.1 %	90-110			
Definition											
CCV	: Continuing Cali	bration Verifica	tion - Analyzed to verif	y the instrui	nent calibratio	on is within	criteria.				
CCB			Analyzed to verify the i								
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.										
MSD	· Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries										
MSRPD	: MS/MSD Relati	ve Percent Diff	erence (RPD) - The MS	relative per	cent difference	e is an indic	ation of precis	ion for the p	reparation		

and analysis.

Data Quality Objective - This is the criteria against which the quality control data is compared.



CHAIN OF CUSTODY AND ANALYSIS REQUEST DOCUMENT

			L		Number 5/3			TEST DESCRIPTION AND ANALYSES REC							SES REC	QUESTED							
Client: Live Oak GeoEnt Customer Number: 3016608 Address: 407 W. Oak St. Lodi, CA 96240 Phone: (209) 369-0375 Fax: Email Address: abby@logelodi.com Contact Person: Abby Racco Project Name: Kusalakari, 9698 S. Purchase Order Number: Quote Number: Sampler(s): Tory Racco Sampling Fee: Pickup Fee: Compositor Setup Date: Tin Samp Location Description	n Priest Rd. French Cam	p, CA Time Sampled	Method of Sempling: Composite (C) Grab (G)	Number of Containers	Type of Containers: Glass (G) Plastic (P) VOA (V) Metal Tube (MT)	Polable (P) Non-Polable (NP) Ag Water (AgW)	Surface Water (SW) Monitoring Well (MW) Ground Water (GW) Travel Blank (TB) Wasta Water (WW) Drinking Water (DW)	Soil (S) Sludge (SLG) Sobd (SLD) Oil (O)	Bact System (Sys) Source (SRC) Waste (W)	Bact. Routine (ROUT) Repeat (RPT) Other (OTH) Replace (RPL) Special (SPL)	Leaf Tissue (LT) Patiole Tissue (PET) Produce (PRD)	Preservetive: (1) NaOH + ZnAc, (2) NaOH, (3) HCi (4) HZSOA, (5) HNO3, (6) NaZs203, (7) Other	DBC P	Nitrak - 1603P; 8 03H2SOU		THE REPORT OF THE PROPERTY OF			and the second s			According to the control of the cont	
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Inter-Laboratory Condition Upon Receipt (Attach to COC) 1951306 Sample Receipt at: (STK) CC CH Number of ice chests/packages received: Shipping tracking # 2. should be flagged unless the time since sample collection has been less than two hours. N/A 3. Do the number of bottles received agree with the COC? Were samples received intact? (i.e. no broken bottles, leaks etc.) 4. 5. VOAs checked for Headspace? 6. Were sample custody seals intact? Yes No 7. If required, was sample split for pH analysis? No 8. Were all analyses within holding times at time of receipt? 9. Verify sample date, time and sampler name Sign and date the COC, place in a ziplock and put in the same ice chest as the samples. Sample Receipt Review completed by (initials): Sample Receipt at SP: Were samples received in a chilled condition? Temps: _____/ ___/ ___/ ___/ ___/ ____/ Acceptable is above freezing to 6 x C. If many packages are received at one time check for tests/H.T.'s/rushes/ 545715725/4962 2. Shipping tracking numbers: 3. Do the number of bottles received agree with the COC? N/A Were samples received intact? (i.e. no broken bottles, leaks etc.) 4. Were sample custody seals intact? Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels. Sample Verification, Labeling and Distribution: Were all requested analyses understood and acceptable? 1. Yes No 2. Did bottle labels correspond with the client's ID's? No Were all bottles requiring sample preservation properly preserved? **FGL** 3. No N/A [Exception: Oil & Grease, VOA and CrVI verified in lab] 4. VOAs checked for Headspace? No N/A 5. Have rush or project due dates been checked and accepted? No N/A Were all analyses within holding times at time of receipt? No 6. Attach labels to the containers and include a copy of the COC for lab delivery. Sample Receipt, Login and Verification completed by (initials): **Discrepancy Documentation:** Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved. Person Contacted: Phone Number: Date: Initiated By: Problem: Resolution: (3-16608)Person Contacted: 2. Live Oak Geo Environmental Initiated By: Problem: STK1951306 Resolution:

(Please use the back of this sheet for additional comme

contacts)

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