

5. JUSTIFICATION OF AMOUNT (For small domestic use registration, complete item b. only)

a. IRRIGATION: Maximum area to be irrigated in any one year is 590 acres.

CROP	ACRES	METHOD OF IRRIGATION (Sprinklers, flooding, etc.)	ACRE-FEET PER YEAR	NORMAL SEASON	
				Beginning Date	Ending Date
Vineyard	530	Drip/Sprinkler	1,060	Apr 15	Oct 15
Pasture	60		240		

b. DOMESTIC: Number of residences to be served is _____ . Separately owned ? YES NO
 Total number of people to be served is _____ . Estimated daily use per person is _____
 Total area of domestic lawns and gardens is _____ square feet. (Gallons per day)
 Incidental domestic uses are _____
 (Dust control area, number and kind of domestic animals, etc.)

c. STOCKWATERING: Kind of stock _____ Maximum number _____
 Describe type of operation: _____

INCIDENTAL (Feed lot, dairy, range, etc.)
 d. RECREATIONAL: Type of recreation: Fishing Swimming Boating Other

e. MUNICIPAL: (Estimated projected use)

POPULATION 5-Year periods until use is completed		MAXIMUM MONTH		ANNUAL USE		
PERIOD	POP.	Average daily use (gal. per capita)	Rate of diversion (cfs)	Average daily use (gal. per capita)	Acre-foot (per capita)	Total acre-feet
Present						

Month of maximum use during year is _____ . Month of minimum use during year is _____

f. HEAT CONTROL: The total area to be heat protected is 530 net acres.
 Type of crop protected is Vineyard
 Rate at which water is applied to use is 35 gpm per acre.
 The heat protection season will begin about June 1 and end about August 31
 (Date) (Date)

g. FROST PROTECTION: The total area to be frost protected is 530 net acres.
 Type of crop protected is Vineyard
 Rate at which water is applied to use is 55 gpm per acre.
 The frost protection season will begin about Feb 15 and end about May 15
 (Date) (Date)

h. INDUSTRIAL: Type of industry is _____
 Basis for determination of amount of water needed is _____

i. MINING: The name of the claim is _____ . Patented Unpatented
 The nature of the mine is _____ . Mineral to be mined is _____
 Type of milling or processing is _____
 After use, the water will be discharged into _____
 (Name of stream)
 in _____ 1/4 of _____ 1/4 of Section _____ , T _____ , R _____ , _____ B. & M.
 (40-acre subdivision)

j. POWER: The total fall to be utilized is _____ feet. The maximum amount of water to be used through the penstock
 is _____ cubic feet per second. The maximum theoretical horsepower capable of being generated by the
 works is _____ . Electrical capacity is _____ kilowatts at _____ % efficiency.
 (Cubic feet per second x fall + 8.8) (Hp x 0.746 x efficiency)
 After use, the water will be discharged into _____
 (Name of stream)
 in _____ 1/4 of _____ 1/4 of Section _____ , T _____ , R _____ , _____ B. & M. FERC No. _____
 (40-acre subdivision)

k. FISH AND WILDLIFE PRESERVATION AND/OR ENHANCEMENT: YES NO If yes, list specific species
 and habitat type that will be preserved or enhanced in item 17 of Environmental Information form WR 1-2.

l. OTHER: Describe use: _____ . Basis for determination of amount of water needed is _____

6. PLACE OF USE

- a. Does applicant own the land where the water will be used? YES NO Is land in joint ownership? YES NO
 (All joint owners should include their names as applicants and sign the application.)
 If applicant does not own land where the water will be used, give name and address of owner and state what arrangements have been made with the owner.

b.

USE IS WITHIN (40-acre subdivision)	SECTION	TOWNSHIP	RANGE	BASE & MERIDIAN	IF IRRIGATED	
					Number of acres	Presently cultivated (Y/N)
1/4 of 1/4	See Attachment					
1/4 of 1/4						
1/4 of 1/4						
1/4 of 1/4						
1/4 of 1/4						
1/4 of 1/4						

(If area is unsurveyed, state the location as if lines of the public land survey were projected, or contact the Division of Water Rights. If space does not permit listing all 40-acre tracts, include on another sheet or state sections, townships and ranges, and show detail on map.)

7. DIVERSION WORKS

- a. Diversion will be by gravity by means of POD 1: Dam POD 3: Weir
 (Dam, pipe in unobstructed channel, pipe through dam, siphon, weir, gate, etc.)
- b. Diversion will be by pumping from POD 2: Offset Well Pump discharge rate 10 Horsepower 20
 (Sump, offset well, channel, reservoir, etc.) (cfs or gpm)
- c. Conduit from diversion point to first lateral or to offstream storage reservoir:

CONDUIT (Pipe or channel)	MATERIAL (Type of pipe or channel lining) (Indicate if pipe is buried or not)	CROSS SECTIONAL DIMENSION (Pipe diameter or ditch depth and top and bottom width)	LENGTH (Feet)	TOTAL LIFT OR FALL		CAPACITY (Estimate)
				Feet	+ or -	
See Attachment						

- d. Storage reservoirs: (For underground storage, complete Supplement 1 to WR1, available upon request.)

Name or number of reservoir, if any	DAM				RESERVOIR		
	Vertical height from downstream toe of slope to spillway level (ft.)	Construction material	Dam length (ft.)	Freeboard Dam height above spillway crest (ft.)	Approximate surface area when full (acres)	Approximate capacity (acre-feet)	Maximum water depth (ft.)
Reservoir #1	60	Earth	400'	5	46	1,225	55
Reservoir A, B & C	15	Earth	330x400'	3	3	25	12

- e. Outlet pipe: (For storage reservoirs having a capacity of 10 acre-feet or more.)

Diameter of outlet pipe (inches)	Length of outlet pipe (feet)	FALL (Vertical distance between entrance and exit of outlet pipe in feet)		HEAD (Vertical distance from spillway to outlet pipe in reservoir in feet)		Estimated storage below outlet pipe entrance (dead storage)
Reservoir 1: 30"	295	10'		10'		20
Offstream Reservoirs A, B & C will be dewatered by pumping.						

- f. If water will be stored and the reservoir is not at the point of diversion, the maximum rate of diversion to offstream storage will be 10 cfs. Diversion to offstream storage will be made by: Pumping Gravity

8. COMPLETION SCHEDULE

- a. Year work will start 2005 b. Year work will be completed 2007
 c. Year water will be used to the full extent intended _____ d. If completed, year of first use 2007

9. GENERAL

- a. Name of the post office most used by those living near the proposed point of diversion is Middletown
- b. Does any part of the place of use comprise a subdivision on file with the State Department of Real Estate? YES NO
 If yes, state name of the subdivision _____
 If no, is subdivision of these lands contemplated? YES NO
 Is it planned to individually meter each service connection? YES NO If yes, When? _____
- c. List the names and addresses of diverters of water from the source of supply downstream from the proposed point of diversion: See files at SWRCB.
- d. Is the source used for navigation, including use by pleasure boats, for a significant part of each year at the point of diversion, or does the source substantially contribute to a waterway which is used for navigation, including use by pleasure boats? YES NO If yes, explain: _____

10. EXISTING WATER RIGHT

Do you claim an existing right for the use of all or part of the water sought by this application? YES NO
 If yes, complete table below:

Nature of Right (riparian, appropriative, groundwater.)	Year of First Use	Purpose of use made in recent years including amount, if known	Season of Use	Source	Location of Point of Diversion

11. AUTHORIZED AGENT (Optional)

With respect to all matters concerning this water right application those matters designated as follows:

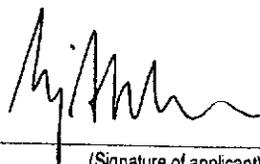
James C. Hanson, CCE (Name of agent) (916) 448-2821 (Telephone number of agent between 8 a. m. and 5 p. m.)
444 North Third Street, Suite 400 Sacramento, CA 95814 (Mailing address) (City or town) (State) (Zip code)

is authorized to act on my behalf as my agent.

12. SIGNATURE OF APPLICANT

I (we) declare under penalty of perjury that the above is true and correct to the best of my (our) knowledge and belief.
 Dated October 11th 19 2001, at Lowet Lake, California

Ms. Mr.
 Miss. Mrs.



(Signature of applicant)

(If there is more than one owner of the project, please indicate their relationship.)

Ms. Mr.
 Miss. Mrs.

(Signature of applicant)

Additional information needed for preparation of this application may be found in the Instruction Booklet entitled "HOW TO FILE AN APPLICATION TO APPROPRIATE WATER IN CALIFORNIA". If there is insufficient space for answers in this form, attach extra sheets. Please cross-reference all remarks to the numbered item of the application to which they may refer. Send original application and one copy to the STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER RIGHTS, P. O. Box 2000, Sacramento, CA 95810, with \$100 minimum filing fee.

NOTE:

If this application is approved for a permit, a minimum permit fee of \$100 will be required before the permit is issued. There is no additional fee for registration of small domestic use.

**ATTACHMENT TO PETITION FOR CHANGE
BY
SIX SIGMA RANCH & VINEYARD**

Item 3b. Points of Diversion and Rediversion

<u>Map Point</u>	<u>Description</u>
1	Point of Diversion by Collection to Storage in Reservoir #1 and Point of Rediversion from Water Diverted at Point #2: Located N. 434,300 and E. 1,846,300, California Coordinate System, Zone 2; being within the NE¼ of the SE¼ of projected Section 29, T12N, R6W, MDB&M.
2	Point of Diversion to Offstream Storage in Reservoir #1 and Offstream Reservoir C: Located N. 432,300 and E. 1,847,400, California Coordinate System, Zone 2; being within the NW¼ of the NW¼ of projected Section 33, T12N, R6W, MDB&M.
3	Point of Diversion to Offstream Storage in Offstream Reservoirs A and B: Located N. 434,500 and E. 1,842,600, California Coordinate System, Zone 2; being within the NW¼ of SW¼ of projected Section 29, T12N, R6W, MDB&M.
A	Place of Storage for Water Diverted at Point 3: Located within the NE¼ of SW¼ and NW¼ of SE¼ of projected Section 29, T12N, R6W, MDB&M.
B	Place of Storage for Water Diverted at Point 3: Located within the SE¼ of SE¼ of projected Section 29, T12N, R6W, MDB&M.
C	Place of Storage for Water Diverted at Point 2: Located within the SW¼ of SW¼ of projected Section 28, T12N, R6W, MDB&M.

Item 6b. Place of Use

<u>Use is Within</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>Base & Meridian</u>	<u>Acres</u>	<u>Irrigated</u>
SE¼ of NE¼	30	12N	6W	MDB&M	28	N
NW¼ of NW¼	29	12N	6W	MDB&M	6	N
SW¼ of NW¼	29	12N	6W	MDB&M	28	N
SE¼ of NW¼	29	12N	6W	MDB&M	2	N
NW¼ of SW¼	29	12N	6W	MDB&M	40	N
NE¼ of SW¼	29	12N	6W	MDB&M	23	N
NW¼ of SE¼	29	12N	6W	MDB&M	1	N
NE¼ of SE¼	29	12N	6W	MDB&M	5	N

Item 6b. Place of Use Continued

<u>Use is Within</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>Base & Meridian</u>	<u>Acres</u>	<u>Irrigated</u>
SW $\frac{1}{4}$ of SE $\frac{1}{4}$	29	12N	6W	MDB&M	12	N
SE $\frac{1}{4}$ of SE $\frac{1}{4}$	29	12N	6W	MDB&M	31	N
NW $\frac{1}{4}$ of SW $\frac{1}{4}$	28	12N	6W	MDB&M	10	N
SW $\frac{1}{4}$ of SW $\frac{1}{4}$	28	12N	6W	MDB&M	35	N
SE $\frac{1}{4}$ of SW $\frac{1}{4}$	28	12N	6W	MDB&M	6	N
SW $\frac{1}{4}$ of SE $\frac{1}{4}$	28	12N	6W	MDB&M	1	N
SE $\frac{1}{4}$ of SE $\frac{1}{4}$	28	12N	6W	MDB&M	1	N
NE $\frac{1}{4}$ of NE $\frac{1}{4}$	32	12N	6W	MDB&M	7	N
NW $\frac{1}{4}$ of NW $\frac{1}{4}$	33	12N	6W	MDB&M	19	N
NE $\frac{1}{4}$ of NW $\frac{1}{4}$	33	12N	6W	MDB&M	6	N
NW $\frac{1}{4}$ of NE $\frac{1}{4}$	33	12N	6W	MDB&M	25	N
NE $\frac{1}{4}$ of NE $\frac{1}{4}$	33	12N	6W	MDB&M	14	N
SW $\frac{1}{4}$ of NW $\frac{1}{4}$	33	12N	6W	MDB&M	16	N
SE $\frac{1}{4}$ of NE $\frac{1}{4}$	33	12N	6W	MDB&M	2	N
NE $\frac{1}{4}$ of SE $\frac{1}{4}$	33	12N	6W	MDB&M	37	N
SE $\frac{1}{4}$ of SE $\frac{1}{4}$	33	12N	6W	MDB&M	40	N
NW $\frac{1}{4}$ of SW $\frac{1}{4}$	34	12N	6W	MDB&M	10	N
SW $\frac{1}{4}$ of SW $\frac{1}{4}$	34	12N	6W	MDB&M	39	N
SE $\frac{1}{4}$ of SW $\frac{1}{4}$	34	12N	6W	MDB&M	29	N
SW $\frac{1}{4}$ of SE $\frac{1}{4}$	34	12N	6W	MDB&M	4	N
Lot 1	4	11N	6W	MDB&M	32	N
Lot 4	3	11N	6W	MDB&M	33	N
Lot 3	3	11N	6W	MDB&M	32	N
Lot 2	3	11N	6W	MDB&M	16	N
				TOTAL	590	

Item 7.c. Diversion Works – Conduit from diversion point to Offstream Reservoir:

	Material / Conduit	Cross Section (diameter)	Length (ft)	Total Lift	Capacity (cfs)
POD 3 to Res A	PVC pipe	12"	1,500'	-5'	4
Res A to Res B	PVC pipe	12"	1,900'	-5'	4
POD 2 to Res 1	PVC pipe	20"	2,400'	+15'	10
POD 2 to Res C	PVC pipe	12"	400'	+5'	4

AHLMA003.doc