

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 340 acres.

CROP	ACRES	METHOD OF IRRIGATION (Sprinklers, flooding, etc.)	ACRE-FEET PER YEAR	NORMAL SEASON	
				Beginning Date	Ending Date
Vineyard	340	Drip/Sprinkler	400	Apr 15	Oct 15

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 340 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 15 and end about August 15
 (Date) (Date)

g. FROST PROTECTION: The total area to be frost protected is 340 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 _____
 in _____ 1/4 of _____ 1/4 of Section _____ , T _____ , R _____ , _____ B. & M.
 (40-acre subdivision) (Name of stream)

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

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
 (Dam, pipe in unobstructed channel, pipe through dam, siphon, weir, gate, etc.)
 POD 2, 3, 4:
- b. Diversion will be by pumping from OFFSET WELL Pump discharge rate 10 Horsepower 90
 (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.)
	SEE ATTACHMENT						

- 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)
12"	260'	1'	10	10

9. GENERAL

- a. Name of the post office most used by those living near the proposed point of diversion is _____
- 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 of 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, Consulting Civil Engineer

James C. Hanson (916) 448 - 2821

(Name of agent) (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 9/29/01 at ST. HELENA, California

Ms. Mr. [Signature]
 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)

**ATTACHMENT TO APPLICATION
BY
HENDRIK SMEDING**

Item 2a: The name of the source at the point of diversion is:

- POD 1: Unnamed stream tributary to Snell Creek thence Putah Creek
- POD 2: Snell Creek tributary to Putah Creek
- POD 3: Butt's Creek tributary to Snell Creek thence Putah Creek
- POD 4: Snell Creek tributary to Putah Creek

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 for Water diverted at Point #2: Located N. 379,600 and E. 1,880,500, California Coordinate System, Zone 2; being within the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of projected Section 16, T.10N., R.5W., MDB&M.
2	Point of Diversion to Offstream Storage in Reservoir #1 and Offstream Reservoir A: Located N. 380,700 and E. 1,878,600, California Coordinate System, Zone 2; being within the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of projected Section 16, T.10N., R.5W., MDB&M.
3	Point of Diversion to Offstream Storage in Offstream Reservoirs B and C: Located N. 378,500 and E. 1,878,900, California Coordinate System, Zone 2; being within the NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of projected Section 21, T.10N., R.5W., MDB&M.
4	Point of Diversion to Offstream Storage in Offstream Reservoir D: Located N. 377,900 and E. 1,883,100, California Coordinate System, Zone 2; being within the NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of projected Section 21, T.10N., R.5W., MDB&M.
A	Place of Storage for Water Diverted at Point #2: Being within the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 17, T.10N., R.5W., MDB&M.
B	Place of Storage for Water Diverted at Point #3: Being within the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 20, T.10N., R.5W., MDB&M.
C	Place of Storage for Water Diverted at Point #3: Being within the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ and SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 16, T.10N., R.5W., MDB&M.
D	Place of Storage for Water Diverted at Point #4: Being within the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 21, T.10N., R.5W., MDB&M.

**ATTACHMENT TO APPLICATION
BY
HENDRIK SMEDING**

Item 6: Place of Use

Use is Within	Section	Township	Range	Base & Meridian	Acres	Irrigated
NW¼ of NE¼	17	10N	5W	MDB&M	4	N
NE¼ of NE¼	17	10N	5W	MDB&M	5	N
SW¼ of NE¼	17	10N	5W	MDB&M	13	N
SE¼ of NE¼	17	10N	5W	MDB&M	33	N
NE¼ of SW¼	17	10N	5W	MDB&M	6	N
NW¼ of SE¼	17	10N	5W	MDB&M	12	N
NE¼ of SE¼	17	10N	5W	MDB&M	26	N
SE¼ of SE¼	17	10N	5W	MDB&M	12	N
SW¼ of NW¼	16	10N	5W	MDB&M	7	N
NW¼ of SW¼	16	10N	5W	MDB&M	30	N
NE¼ of SW¼	16	10N	5W	MDB&M	1	N
SW¼ of SW¼	16	10N	5W	MDB&M	25	N
SE¼ of SW¼	16	10N	5W	MDB&M	20	N
SW¼ of SE¼	16	10N	5W	MDB&M	13	N
SE¼ of SE¼	16	10N	5W	MDB&M	20	N
NW¼ of NE¼	20	10N	5W	MDB&M	4	N
NE¼ of NE¼	20	10N	5W	MDB&M	15	N
SE¼ of NW¼	20	10N	5W	MDB&M	2	N
SW¼ of NE¼	20	10N	5W	MDB&M	2	N
NW¼ of NW¼	21	10N	5W	MDB&M	10	N
NE¼ of NW¼	21	10N	5W	MDB&M	14	N
NW¼ of NE¼	21	10N	5W	MDB&M	23	N
NE¼ of NE¼	21	10N	5W	MDB&M	11	N
SW¼ of NE¼	21	10N	5W	MDB&M	1	N
SE¼ of NE¼	21	10N	5W	MDB&M	31	N
TOTAL					340	

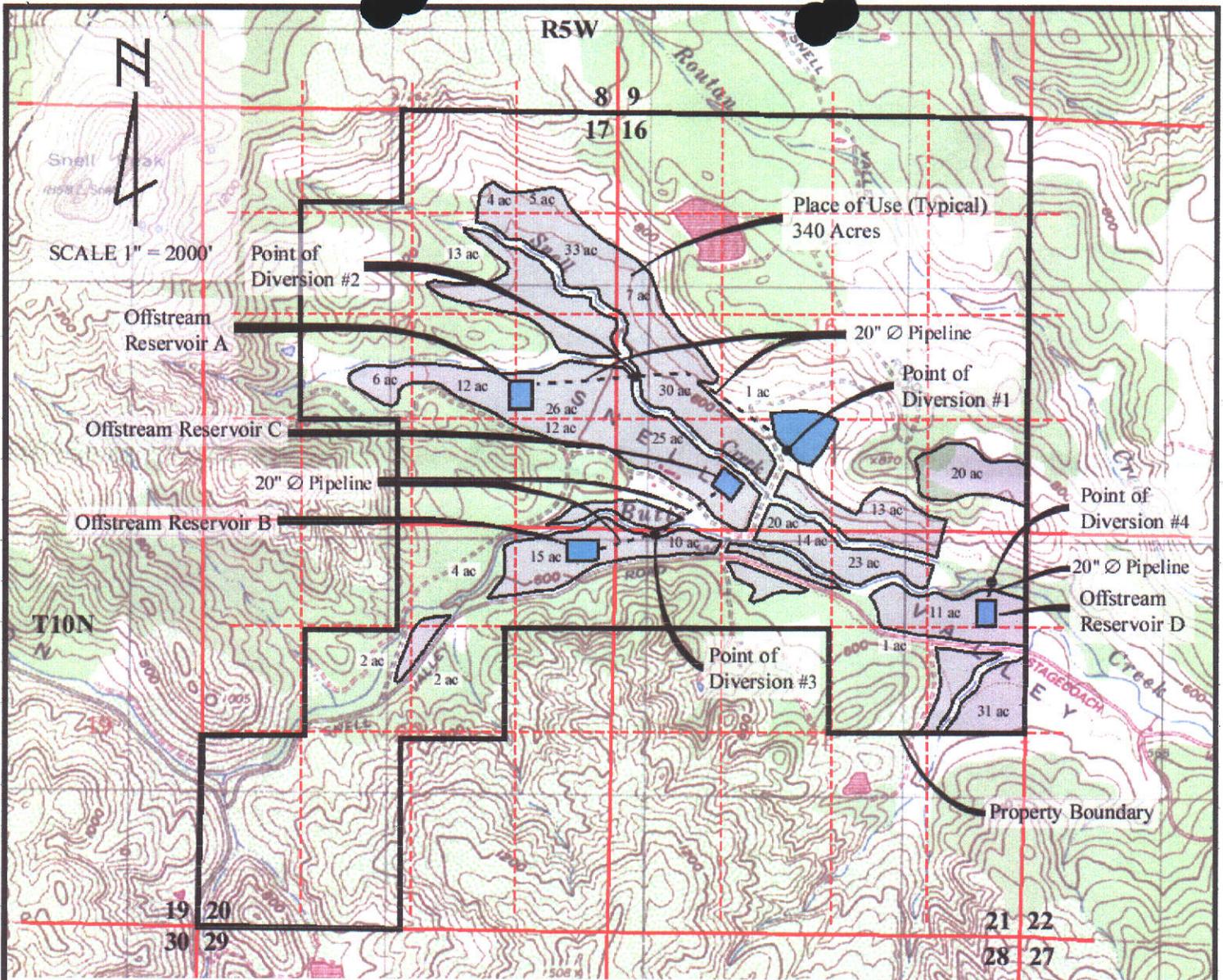
**ATTACHMENT TO APPLICATION
BY
HENDRIK SMEDING**

Item 7.c. Conduit from diversion point to offstream storage reservoir:

	Conduit	Material	Cross Section	Length (ft)	Total Lift (ft)	+ or -	Capacity
POD #2 to Res. 1	Pipe	PVC	20"	2,100	55	+	10 cfs
POD #2 to Res. A	Pipe	PVC	20"	1,200	65	+	10 cfs
POD #3 to Res. B	Pipe	PVC	20"	800	5	+	10 cfs
POD #3 to Res. C	Pipe	PVC	20"	1,000	5	+	10 cfs
POD #4 to Res. D	Pipe	PVC	20"	200	5	+	10 cfs

Item 7.d. Storage Reservoirs:

Dam					Reservoir		
Number	Vertical Height (feet)	Construction Material	Dam Length (Feet)	Freeboard (Feet)	Approximate surface area (acres)	Approx. Capacity (ac-ft)	Max. Water Depth (ft)
1	47	Earth	1,000	5	8.6	200	42
A	17	Earth	400 x 500	3	5	50	14
B	27	Earth	400 x 300	3	3	50	24
C	27	Earth	400 x 300	3	3	50	24
D	27	Earth	400 x 300	3	3	50	24



Map Point Description

- 1 Point of Diversion by Collection to Storage in Reservoir #1 and Point of Rediversion for Water diverted at Point #2: Located N. 379,600 and E. 1,880,500, California Coordinate System, Zone 2, being within the SE¼ of the SW¼ of projected Section 16, T.10N., R.5W., MDB&M.
- 2 Point of Diversion to Offstream Storage in Reservoir #1 and Offstream Reservoir A: Located N. 380,700 and E. 1,878,600, California Coordinate System, Zone 2; being within the NW¼ of the SW¼ of projected Section 16, T.10N., R.5W., MDB&M.
- 3 Point of Diversion to Offstream Storage in Offstream Reservoirs B and C: Located N. 378,500 and E. 1,878,900, California Coordinate System, Zone 2; being within the NW¼ of NW¼ of projected Section 21, T.10N., R.5W., MDB&M.
- 4 Point of Diversion to Offstream Storage in Offstream Reservoir D: Located N. 377,900 and E. 1,883,100, California Coordinate System, Zone 2; being within the NW¼ of NW¼ of projected Section 21, T.10N., R.5W., MDB&M.
- A Place of Storage for Water Diverted at Point #2: Being within the NE¼ of the SE¼ of Section 17, T.10N., R.5W., MDB&M.
- B Place of Storage for Water Diverted at Point #3: Being within the NE¼ of the NE¼ of Section 20, T.10N., R.5W., MDB&M.
- C Place of Storage for Water Diverted at Point #3: Being within the SW¼ of the SW¼ and SE¼ of the SW¼ of Section 16, T.10N., R.5W., MDB&M.
- D Place of Storage for Water Diverted at Point #4: Being within the NE¼ of the NE¼ of Section 21, T.10N., R.5W., MDB&M.

Map To Accompany
Application No. _____
by
Hendrik Smeding
for
Appropriation of Water
from
Snell Creek & Butt's Creek

Napa County, California

Wagner & Bonsignore
Consulting Civil Engineers, A Corporation

Base Map Per U.S.G.S. 7.5 Minute Quad Map For Aetna Springs

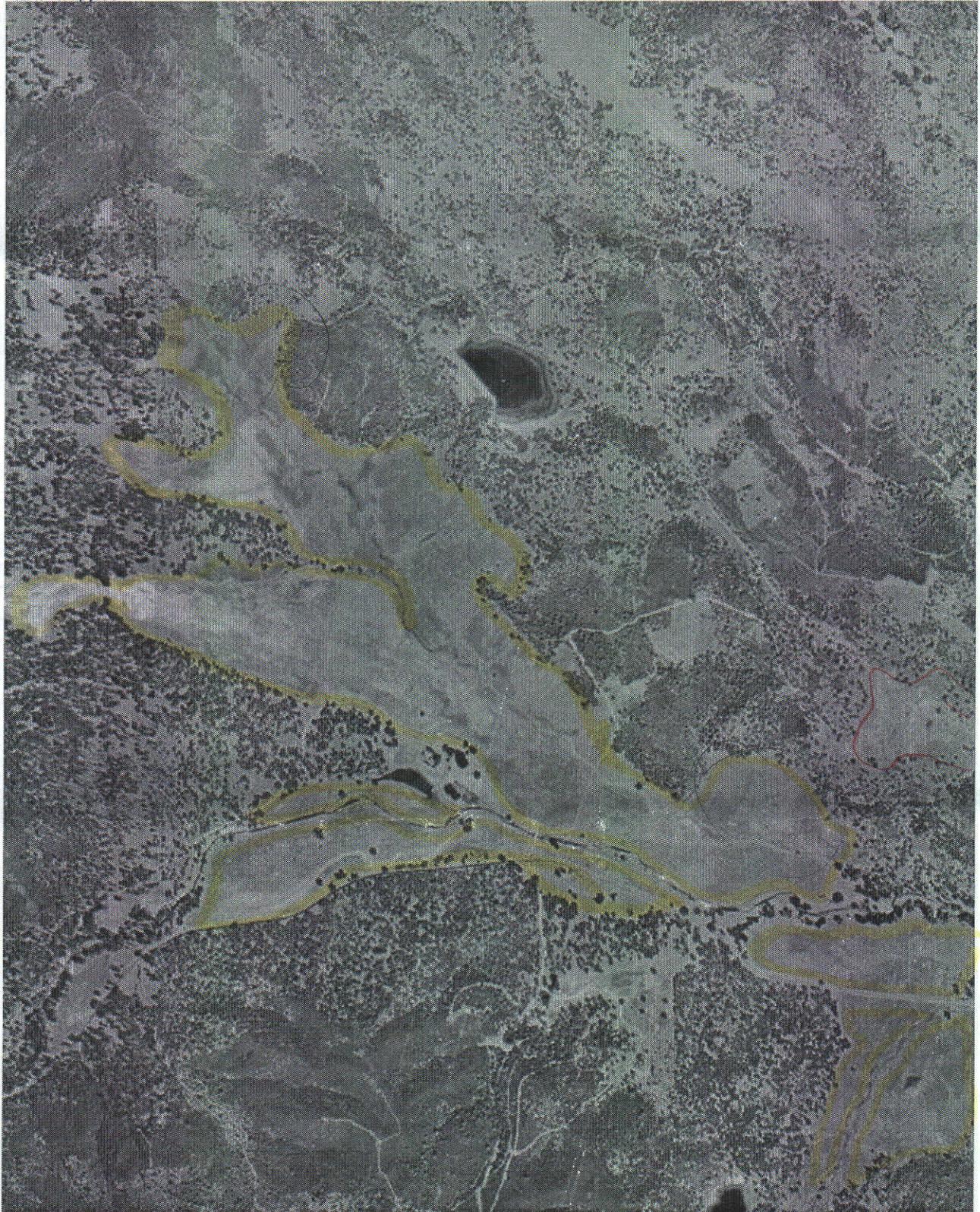
September 2001

Microsoft TerraServer

Display Image

USGS Aerial Photograph

38 km NE of Santa Rosa, California, United States 10 Jul 1993



Hendrik Smeding

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER RIGHTS
901 P Street, Sacramento
P. O. Box 2000, Sacramento, CA 95810

STATE WATER RESOURCES
CONTROL BOARD

2001 OCT -9 PM 2:46

DIV. OF WATER RIGHTS
SACRAMENTO

**APPLICATION TO APPROPRIATE WATER BY PERMIT
ENVIRONMENTAL INFORMATION**

(THIS IS NOT A CEQA DOCUMENT)

APPLICATION NO. 031556
(leave blank)

The following information will aid in the environmental review of your application as required by the California Environmental Quality Act (CEQA). IN ORDER FOR YOUR APPLICATION TO BE ACCEPTED AS COMPLETE, ANSWERS TO THE QUESTIONS LISTED BELOW MUST BE COMPLETED TO THE BEST OF YOUR ABILITY. Failure to answer all questions may result in your application being returned to you, causing delays in processing. If you need more space, attach additional sheets. Additional information may be required from you to amplify further or clarify the information requested in this form.

PROJECT DESCRIPTION

1. Provide a brief description of your project, including but not limited to type of construction activity, structures existing or to be built, area to be graded or excavated and project operation, including how the water will be used.

This project involves diversion of water from Snell Creek, Butt's Creek and an unnamed stream tributary to Snell Creek for storage in five proposed reservoirs for irrigation, frost and heat protection of 340 acres of proposed vineyard all located on the Applicant's property. The total amount of water sought under this application is 400 acre-feet, with onstream Reservoir #1 having a capacity of 200 acre-feet and Offstream Reservoirs A, B, C, and D having capacities of 50 acre-feet each. Reservoir #1 is located on an unnamed stream and will be supplemented from water diverted at Point #2 on Snell Creek. Water will be conveyed through 20 inch pipelines from Snell Creek to Reservoir 1 and Offstream Reservoirs A and D, and from Butt's Creek to Offstream Reservoirs B and C (see map for locations). Construction will include building the five proposed reservoirs and the development of 340 acres of vineyard. It is anticipated that soil materials for dam construction of Reservoir #1 will be obtained from the reservoir area below the maximum storage elevation. The offstream reservoirs will be constructed with a balanced cut and fill of the soil materials within the reservoir areas. Vineyard development will involve clearing, grading and installation of pipeline for distribution of water for irrigation, frost and heat protection. Water will also be used for incidental recreation purposes at the reservoirs.

GOVERNMENTAL REQUIREMENTS

Before a final decision can be made on your water right application, we must consider the information contained in an environmental document prepared in compliance with the requirements of CEQA. If an environmental document has been prepared for your project by another agency, we must consider it. If one has not been prepared, a determination must be made as to who is responsible for the preparation of the environmental document for your project. The following questions are designed to aid us in that determination.

2. Contact your county planning or public works department for the following information:

(a) Person contacted Napa County Date of contact 9/5/2001
Department Planning Department Telephone (707) 253-4416

(b) Assessor's Parcel No. 16-110-21, 22, 26, 27, 28, 29, 30

(c) County Zoning Designation Agricultural Watershed

(d) Are any county permits required for your project? Yes If you answered yes, check appropriate spaces below:

Grading Permit, Use Permit, Watercourse Obstruction Permit,
 Change of Zoning, General Plan Change, Other explain:

(e) Have you obtained any of the required permits described above? No If you answered yes, provide a complete copy of each permit obtained.

3. Are any additional state or federal permits required for your project? Yes [i.e., from Federal Energy Regulatory Commission, U.S. Forest Service, Bureau of Land Management, Soil Conservation Service, Department of Water Resources (Division of Safety of Dams), Reclamation Board, Coastal Commission, State Lands Commission, etc.] For each agency from which a permit is required provide the following information:

Permit type Approval of dam plans and specifications

Person contacted California Water Code, Division 3, Part 1, Chapter 1

Agency Division of Safety of Dams

Date of Contract _____ Telephone (916) 445-7606

4. Has any public agency prepared an environmental document for any aspect of your project? No
If so, please submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the public agency.

If not, explain below whether you expect that a public agency other than the State Water Resources Control Board will be preparing an environmental document for your project or whether the applicant, if it is a California public agency, will be preparing the environmental document for your project: The Applicant expects the State Water Resources Control Board will be the lead agency in preparing the appropriate environmental document for this project.

Note: When completed, please submit a copy of the final environmental document (including notice of determination) or notice of exemption to the State Water Resources Control Board. Processing of your water right application cannot proceed until such documents are submitted.

5. Will your project, during construction or operation, generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or cause erosion, turbidity or sedimentation? No If so, explain: _____

If you answered yes or you are unsure of your answer, contact your local Regional Water Quality Control Board for the following information (See attachment for address and telephone number):

Will a waste discharge permit be required for your project?

Person contacted _____ Date of contact _____

What method of treatment and disposal will be used?

6. Have any archeological reports been prepared on this project, or will you be preparing an archeological report to satisfy another public agency? No

Do you know of any archeological or historical sites located within the general project area?

No If so, explain: _____

ENVIRONMENTAL SETTING

7. Attach **THREE COMPLETE SETS** of color photographs, clearly dated and labeled, showing the vegetation currently existing at the following locations:
- (a) Along the stream channel immediately downstream from the proposed point(s) of diversion
 - (b) Along the stream channel immediately upstream from the proposed point(s) of diversion
 - (c) At the place(s) where the water is to be used

Note: It is very important that you submit no less than *three complete sets* of photographs as required above. If less than three sets are submitted, processing of your application will be delayed until you furnish the remaining sets!

8. From the list given below, mark or circle the general plant community types which best describe those which occur within your project area (Note: See footnote denoted by * under Question 11 below):

Tree Dominated Communities

- Subalpine Conifer
- Red Fir
- Lodgepole Pine
- Mixed Conifer
 - Sierran Mixed Conifer
 - White Fir
 - Klamath Mixed Conifer
- Douglas-Fir
- Jeffrey Pine
- Ponderosa Pine
- Eastside Pine
- Redwood
- Pinyon-Juniper
- Juniper
- Aspen
- Closed-Cone Pine-Cypress
- Montane Hardwood-Conifer
- Montane Hardwood
- Valley Foothill Hardwood
 - Blue Oak Woodland
 - ✓ Valley Oak Woodland
 - Coastal Oak Woodland
- Valley Foothill Hardwood-Conifer
 - Blue Oak-Digger Pine
- Eucalyptus
- Montane Riparian
- Valley Foothill Riparian
- Desert Riparian
- Palm Oasis
- Joshua Tree

Shrub Dominated Communities

- Alpine Dwarf-Shrub
- Low Sage
- Bitterbrush
- Sagebrush
- Montane Chaparral
- Mixed Chaparral
- Chamise-Redshank Chaparral
- Coastal Scrub
- Desert Succulent Shrub
- Desert Wash
- Desert Scrub
- Alkali Desert Scrub

Herbaceous Dominated Communities

- ✓ Annual Grassland
- Perennial Grassland
- Wet Meadow
- Fresh Emergent Wetland
- Saline Emergent Wetland
- Pasture

Aquatic Communities

- ✓ Riverine
- Lacustrine
- Estuarine
- Marine

Developed Communities

- Cropland
- Orchard-Vineyard
- Urban

Literature source: Mayer, K.E., and W.F. Laudenslayer, Jr., (eds). 1988. A Guide to Wildlife Habitats of California. California Department of Forestry and Fire Protection, Sacramento. 166 pp. (Note: You may view a copy of this document at our public counter at the address given at the top of this form or you may purchase a copy by calling the California Department of Fish and Game, Wildlife Habitat Relationships (WHR) Program, at (916) 653-7203.)

9. Provide below an estimate of the type, number, and size (trunk/stem diameter at chest height) of trees and large shrubs that are planned to be removed or destroyed due to construction and operation of your project. Consider all aspects of your project, including diversion structures, water distribution and use facilities, and changes in the places of use due to additional water development.

The Applicant proposed to plant the majority of the vineyard only in areas that are naturally cleared (see attached aerial photo). No additional trees are anticipated to be removed to plant the vineyard. Construction of Reservoir #1 will require clearing of a small number of trees and brush.

FISH AND WILDLIFE CONCERNS

10. Identify the typical species of fish which occur in the source(s) from which you propose to divert water and discuss whether or not any of these fish species or their habitat has been or would be affected by your project (Note: See footnote denoted by * under Question 11 below):

The fishery habitat value of the unnamed stream where Reservoir #1 is proposed is very low. There is no defined riparian corridor along the unnamed stream and it runs only during times when there is precipitation as the drainage area is relatively small. The proposed location of the reservoir is in accordance with the SWRCB policy which sets forth that storage reservoirs shall not be located on any watercourse which has fishery habitat value. The applicant's diversion facilities at Points of Diversion 2, 3 and 4 will be offset wells. If necessary, Streambed Alteration Agreements from the Department of Fish and Game will be obtained prior to installation of any diversion facilities in Snell Creek and Butt's Creek. Reservoirs A, B, C and D are proposed offstream reservoirs and are not located onstream.

11. Identify the typical species of riparian and terrestrial wildlife in the project area and discuss whether or not any of these species and/or their habitat has been or would be affected by your project through construction of water diversion and distribution works and changes in the places of water use (Note: See footnote denoted by * below):

As previously stated, the vineyard will only be planted in areas which have been previously cleared and no trees will be removed. Additionally, the vineyard areas will have a minimum setback from Snell and Butt's Creeks, thereby not affecting any riparian corridor present. The place of use and reservoir locations will be surveyed in the Spring of 2002 or 2003 and any impacts to species and/or their habitat will be assessed at that time.

*Note: The purposes of Questions 10 and 11 are to provide a preliminary assessment of the presence of typical plant and animal species in the project area and whether these species might be affected by your project. Detailed site surveys to quantify populations of specific species or determine the presence of rare or endangered species may be required at a later date. It is very important that you answer these questions accurately. If you are unable to obtain appropriate answers from your local California Department of Fish and Game biologists (see attachment for address and telephone number) or you do not have adequate information or expertise to complete your answers, you should hire a fishery consultant and/or a wildlife consultant to review your project and prepare suitable answers for you. For information on available qualified fishery or wildlife consultants near you, consult your local telephone directory yellow pages under **Environmental and Ecological Services**, or call the California Environmental Protection Agency, Registered Environmental Assessor (REA) Program at (916) 324-6881 or the University of California, Cooperative Extension Service (see your local telephone directory white pages).

12. Does your proposed project involve any construction or grading-related activity which has significantly altered or would significantly alter the bed or bank of any stream or lake?

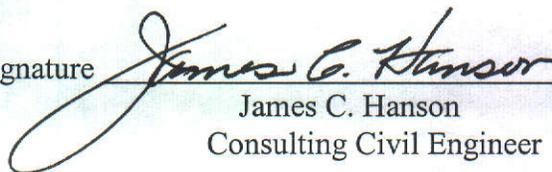
If so, explain: Construction of the 200 acre-foot reservoir will require significant earthwork. It is anticipated that earth materials to construct the dam can be obtained from below the maximum storage elevation to minimize impacts to lands outside of the inundation area. If necessary prior to construction, the applicant will obtain a Streambed Alteration Agreement pursuant to Department of Fish and Game Code Section 1603. The offstream reservoirs will be constructed with a balanced cut and fill of the soil materials at the reservoir sites.

CERTIFICATION

I hereby certify that the statements I have furnished above and in the attached exhibits are complete to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge.

Date Oct 3, 2001

Signature


James C. Hanson
Consulting Civil Engineer

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