

DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES

Tony Linegar
Agricultural Commissioner
Sealer of Weights and Measures



133 Aviation Blvd., Suite 110
Santa Rosa, CA 95403-1077
Phone (707) 565-2371 Fax (707) 565-3850
www.sonoma-county.org/agcomm

PERMIT APPLICATION FOR AGRICULTURAL GRADING, DRAINAGE, AND/OR VINEYARD/ORCHARD SITE DEVELOPMENT (VESCO)

CHECK ALL THAT APPLY

- | | | |
|----------------------------------|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> New | <input type="checkbox"/> Vineyard | <input type="checkbox"/> Level I |
| <input type="checkbox"/> Replant | <input type="checkbox"/> Orchard | <input type="checkbox"/> Level II |

OFFICE USE ONLY

- | | | |
|---|---|--|
| <input type="checkbox"/> Tree Removal | <input type="checkbox"/> Regular Ag Grading | <input type="checkbox"/> Regular Ag Drainage |
| <input type="checkbox"/> Cohesionless Soils | <input type="checkbox"/> Engineered Grading | <input type="checkbox"/> Engineered Drainage |

OFFICE USE ONLY

(06/30/2016)

Date Received: _____ / _____ / _____

Fee Paid: \$ _____ AG #: _____

Permit Issued: _____ / _____ / _____

Issued By: _____

ACO #: _____

Site Address: _____

City: _____

APN#(s): _____

PART A – CONTACT INFORMATION

PROPERTY OWNER/APPLICANT NAME: _____

DBA: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL ADDRESS: _____

PROJECT MANAGER NAME (ON SITE): _____

COMPANY: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL ADDRESS: _____

PROJECT ENGINEER NAME: _____

COMPANY: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL ADDRESS: _____

NOTE: Permit must be approved before any work begins. Incomplete applications will not be accepted. Applications submitted after September 15th may not be issued in same calendar year. See page 13 for instructions on completing this application packet. An intake appointment is required when submitting an application. Please call (707) 565-2371 to schedule an appointment.

PART B – PROJECT DETAILS / PROJECTS WITH GRADING AND/OR DRAINAGE

PROJECT DETAILS

SITE ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

ASSESSORS PARCEL NUMBERS(S): _____

TOTAL ACREAGE OF PARCEL(S): _____

ACREAGE OF SOIL DISTURBANCE: _____

ACRES TO BE PLANTED / REPLANTED: _____

ACRES OF TREES TO BE REMOVED: _____

EXISTING VINEYARD / ORCHARD ACREAGE: _____

EXISTING LAND USE & VEGETATION (check one): Ag Crop Pasture Rangeland Timberland Other: _____

NRCS SOIL TYPE(S): _____

HIGHEST NATURAL SLOPE: _____

METHOD USED TO DETERMINE SLOPE (check one): USGS Topo Clinometer Field Survey Other: _____

PROJECTS WITH GRADING

TOTAL VOLUME OF CUTS (IN YD³): _____

TOTAL VOLUME OF FILLS (IN YD³): _____

GREATEST SLOPE CREATED BY CUTS: _____

GREATEST DEPTH OF CUT SLOPES CREATED: _____

HEIGHT OF CUT SLOPES CREATED: _____

HIGHEST NATURAL SLOPE OF GRADING AREA: _____

ACRES TO BE GRADED: _____

FILL MATERIAL(S) TO BE USED: Rock Soil Other: _____

IS PROJECT WITHIN ANY OF THE FOLLOWING AREAS? (check all that apply):

SPECIAL FLOOD HAZARD AREA: Yes No

Describe: _____

FLOOD-PRONE URBAN AREA: Yes No

Describe: _____

GEOLOGICAL HAZARD AREA COMBINING DISTRICT: Yes No

Describe: _____

PROJECTS WITH DRAINAGE

TYPE(S) OF DRAINAGE IMPROVEMENT: Circular Pipe V-Ditch Sheet Flow

CROSS SECTIONAL AREA (SQ FT) OF DRAINAGE IMPROVEMENT: _____

ACRES OF DRAINAGE BASIN AFFECTED BY DRAINAGE IMPROVEMENT: _____

PART C – SITE DETAILS / BMPs / TIMELINE

SITE DETAILS

HYDROLOGY

List the hydrologic features (perennial and ephemeral streams, wetlands, ponds, etc.) that occur in the development area. Include planned setback requirements. *(Follow setbacks in accordance with Sonoma County Code, Chapter 11 and Best Management Practices for Agricultural Erosion and Sediment Control available at www.sonoma-county.org/daqcomm/vesco.htm).*

SENSITIVE SITES

Identify areas (critical habitat, riparian areas, archeological sites, etc.) in the development area that may need to be protected from erosion or sedimentation. *(Refer to US Fish & Wildlife Service's Critical Habitat Mapper to find out if your project is in a sensitive habitat available at <http://ecos.fws.gov/crithab>).*

VEGETATION

Describe the proposed changes to species composition (tree removal, riparian restoration, etc.) in the development area.

BEST MANAGEMENT PRACTICES (BMPs)

FARMING PRACTICES

List land preparation strategies (ripping, discing, terracing, dry farming, etc.) planned in the development area.

DRAINAGE

Describe drainage structures proposed in the development area (check where appropriate and describe below):

Surface Sheet Flow Circular Pipe V-Ditch Sub-Drain

PART C – SITE DETAILS / BMPs / TIMELINE

ROADS AND AVENUES

Choose type of roads and avenues proposed in the development area (check where appropriate and describe below):

- All-Weather Rocked Grassy Avenues Insloped Outsloped Water Bars Other

EROSION AND SEDIMENT CONTROLS

Choose appropriate BMPs proposed to control erosion and sedimentation in the development area (check where appropriate and describe below):

- Cover Crop Straw Mulch Straw Wattles Jute Netting Straw Bale Dikes Vegetated Filter Strips Other

TIMELINE

Include all phases of project (including agricultural grading and/or drainage improvements) and list implementation dates for both temporary and final erosion and sediment control measures.

REMINDERS:

- VESCO permits expire five (5) years from date of issue.
- Grading/drainage permits expire three (3) years from date of issue.
- Biological assessments or studies expire three (3) years after they are conducted.
- Agricultural grading, agricultural drainage, and vineyard/orchard site development is prohibited during the “rainy season” as noted below:
 - All site preparation and winterization for new development, grading, and drainage shall occur between April 1st and October 15th.
 - All site preparation and winterization for replanting projects shall occur between April 1st and November 15th.

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Other permits that may be required (may include, but not limited to):

PART D – AUTHORIZATION

PROJECT AUTHORIZATION DECLARATION

I, _____, declare under penalty of perjury that the information provided in connection with this application is true and correct to the best of my knowledge. I understand that issuance of a permit does not relieve me of the obligation to comply with other federal, state, or local laws or regulations, or from liability for violations of those laws and regulations. I acknowledge that the County is not authorizing a take of any federal or state endangered species by issuance of this permit, and I further declare under penalty of perjury that a biological assessment or study has been prepared for the site by a qualified expert with respect to impacts on endangered species. I have reviewed the opinion of the qualified expert and will take all steps necessary, based on this opinion, to comply with any applicable provisions of the state and federal endangered species acts, and all other applicable state and federal laws. I waive any claims of liability for damages against the County of Sonoma and its contractors, and agree to indemnify the County of Sonoma and its contractors from and against any claims, suits, or liabilities, arising out of activities I undertake based on the issuance of this permit. I further understand that if a permit is not issued within one year following the filing of a permit application, the permit application shall expire without any further action by the Department of Agriculture. The Department of Agriculture may grant one 180-day extension, if the applicant files a written request before expiration of the original one-year period and shows that the extension is warranted due to a lawsuit, permit authority error, or other circumstances beyond the control of the applicant. Otherwise a new, complete permit application and associated fees must be submitted. I further understand that VESCO permits expire five years from the issue date and Grading and Drainage permits expire three years from the issue date.

Also, additional fees apply for engineering and/or geological review and site visit(s) for all Level II projects and Grading and Drainage projects. Additional fees may apply if additional plan review and/or site visit(s) are required by Department staff beyond the initial department staff inclusions as stated on page 7. If additional fees are applied, they will be based on the at-cost hourly rates, as stated on page 8, and billed by the ¼ hour. The applicant will be billed for the actual time spent to provide these services and payment will be due within 30 days. Applicant understands and agrees that the applicant is responsible for paying these costs even if the application is withdrawn.

I authorize entry by the Department of Agriculture and its contractors onto all areas where development is occurring under this permit at all reasonable times or whenever an emergency exists to determine whether I am complying with permit terms.

APPLICANT/OWNER NAME (print): _____

APPLICANT/OWNER SIGNATURE*: _____

TITLE: _____ DATE: _____

**Application for permit must be authorized by the owner of the property. If not signed by the owner, written consent from the property owner must be included with the application packet.*

PART E – CHECKLIST

APPLICATION CONTENTS CHECKLIST (see pages 7 – 9 for explanation of levels and fees)

Vineyard/Orchard Development Projects: Online mapping resources available at www.sonoma-county.org/prmd/activemap. Search for your project parcel(s) and activate air photo/USGS layers.

LEVEL I PROJECTS

- Completed application packet.
- Appropriate fees.
- USGS 7½ minute quadrangle map (including parcel boundaries) with areas to be planted or replanted outlined.
- Recent color aerial photo (taken within the last two years) with areas to be planted or replanted outlined.
- Completed biological assessment or study of project area. *This is required for all projects, but report submittal is only required if it delineates or makes recommendations regarding wetland, stream, lake, pond, and/or other setbacks. Additional information located at http://sonoma-county.org/pdf/biological_resource_study_or_assessment_guidelines.pdf.*
- Completed crop acreage survey.
- Frost protection registration or negative declaration form required for new or amended systems using water in the Russian River watershed. *Additional information located at http://www.sonoma-county.org/aqcomm/frost_protection.htm.*

LEVEL II PROJECTS

- All items required above for Level I projects.
- Three (3) copies of engineered erosion control plans.
- Electronic copy of engineered erosion control plans (on physical media or sent via email).
- Two (2) copies of sheet flow calculation documentation (reference located at http://sonoma-county.org/pdf/sheetflow_reference_sheet.pdf).
- Completed tree removal worksheet if applicable (NOT required for grading and drainage).
- Certified Engineering Geologist Report identifying areas of slope instability and/or cohesionless soil.

LEVEL I AND LEVEL II WITH AGRICULTURAL GRADING AND/OR DRAINAGE PROJECTS

- Three (3) copies of Engineered Grading and/or Drainage Improvement Plans, Drainage Report, and Geotechnical Report.
- Drainage Report.

GRADING AND DRAINAGE PROJECTS

- For Drainage requirements, please refer to PRMD's Drainage Report Required Contents (DRN-006) located at <http://www.sonoma-county.org/prmd/docs/handouts/drn-006.pdf>.
- For Grading requirements, please refer to PRMD's Grading Permit Required Application Contents (GRD-004) located at <http://www.sonoma-county.org/prmd/docs/handouts/grd-004.pdf>.

PART F – INFORMATION: FEES

PROJECT FEES

Frost protection registration fee of \$64 may be applicable and is not included in the fees below. Please see pages 17 – 19 for additional information.

Project Fees*	PROJECT FEES EXCLUDING ENGINEER/GEOLOGIST SERVICES				ADDITIONAL FEES <i>Project applicant will be billed at-cost for plan review and/or site visit services. See at-cost hourly rates below.</i>	PROJECT FEE INCLUSIONS <i>Project fees include the following services provided by Department staff. Additional services beyond inclusions below will be charged at staff rate of \$130/hour.</i>
	PROJECT SIZE IN ACRES					
	<10 acres	10 to <50 acres	50 to <100 acres	>100 acres		
Level I VESCO						
No Grading or Drainage	\$679	\$1,281	\$1,661	\$2,141	N/A	1 Plan Review and 1 Site Visit
With Grading and/or Drainage	\$1,245	\$1,841	\$2,269	\$2,823	Applicable At-Cost Engineer/Geologist Charges	1 Plan Review and 2 Site Visits

Level II VESCO

No Grading or Drainage	\$4,321	\$6,382	\$8,123	\$10,737	Applicable At-Cost Engineer/Geologist Charges	2 Plan Reviews and 2 Site Visits
With Grading and/or Drainage	\$4,881	\$6,975	\$8,778	\$11,471	Applicable At-Cost Engineer/Geologist Charges	2 Plan Reviews and 3 Site Visits

Level II VESCO with Tree Removal

No Grading or Drainage	\$5,002	\$7,263	\$9,099	\$11,931	Applicable At-Cost Engineer/Geologist Charges	2 Plan Reviews and 2 Site Visits
With Grading and/or Drainage	\$5,545	\$7,880	\$9,750	\$12,663	Applicable At-Cost Engineer/Geologist Charges	2 Plan Reviews and 3 Site Visits

Grading and/or Drainage Only

No VESCO	\$964	\$1,045	\$1,180	\$1,317	Applicable At-Cost Engineer/Geologist Charges	1 Plan Review and 1 Site Visit
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PART F – INFORMATION: FEES

AT-COST FEES

At-cost fees will be charged on an actual (“at-cost”) basis, calculated based on the hourly rates, including travel time, set forth herein and with a minimum charge for 15 minutes and then rounded to the nearest quarter hour. The amount of time and type of staff rendering services will vary depending upon the services requested. Pre-application consultative services, additional reviews and/or site visits, and review of multiple revisions to projects plans and/or previously accepted projects are billed at-cost at the hourly rates below:

At-Cost Hourly Rates

<u>Position</u>	<u>Hourly Rate</u>
Land Stewardship Staff	\$135
Assistant Engineer	\$110
Staff Engineer	\$135
Associate Engineer	\$145
Senior Geotechnical Engineer	\$200
Assistant Geologist	\$105
Senior Geologist	\$140
Senior Technician	\$95
Principal Engineering Geologist	\$190

SERVICES BILLED AT-COST

- **PRE-APPLICATION CONSULTATIVE SERVICES**

Consultative services include pre-application site visits and evaluation and development plan and/or site drawing review. All pre-application consultative services are billed at-cost. To request pre-application consultative services, please complete the request form and return it the Department:

Mail:
Department of Agriculture
Attn: Land Stewardship Division
133 Aviation Boulevard, Suite #110
Santa Rosa, CA 95403

Fax:
(707) 565-3850
Attn: Land Stewardship Division

Email:
sonomaag@sonoma-county.org

- **ADDITIONAL SITE INSPECTIONS**

Additional plan review and/or site visits by Department staff beyond the initial department staff inclusions noted in the project fees on page 7 include:

- Additional plan review required by Department staff to approve and issue the permit.
- Additional site visit(s) required by Department staff to approve and issue the permit and/or verify compliance.
- Site visit(s) for non-compliance and/or to ensure corrective action has been taken.
- Multi-phase site visits apply to projects that are constructed in phases and therefore require additional site visits due to timing of construction.

PART F – INFORMATION: PROJECT DETERMINATIONS

VESCO LEVEL DETERMINATION		
	LEVEL I	LEVEL II
Planting area with no highly erodible soils	15% or less natural slope	Steeper than 15% natural slope
Replanting area with no highly erodible soils	30% or less natural slope	Steeper than 30% natural slope
Planting area with any highly erodible soils	10% or less natural slope	Steeper than 10% natural slope
Replanting area with any highly erodible soils	15% or less natural slope	Steeper than 15% natural slope
Planting with tree removal, natural slope descending below ridgetop (see flow chart for new development projects)	50% or less natural slope for more than 500' in slope length above designated stream	Steeper than 50% natural slope for more than 500' in slope length above designated stream
Planting with tree removal, location of ridgetop (see flow chart for new development projects)	Not on a designated watershed or sub-watershed divide	On a designated watershed or sub-watershed divide

TYPES OF HIGHLY ERODIBLE SOILS: DIABLO, DIBBLE, GOLDRIDGE, LAUGHLIN, LOS OSOS, STEINBECK, AND SUTHER.

PLANTING ON SITES WITH NATURAL SLOPE GREATER THAN 50% IS PROHIBITED.

TREE REMOVAL ON SITES WITH NATURAL SLOPE ABOVE 40% ON COHESIONLESS SOILS IS PROHIBITED.

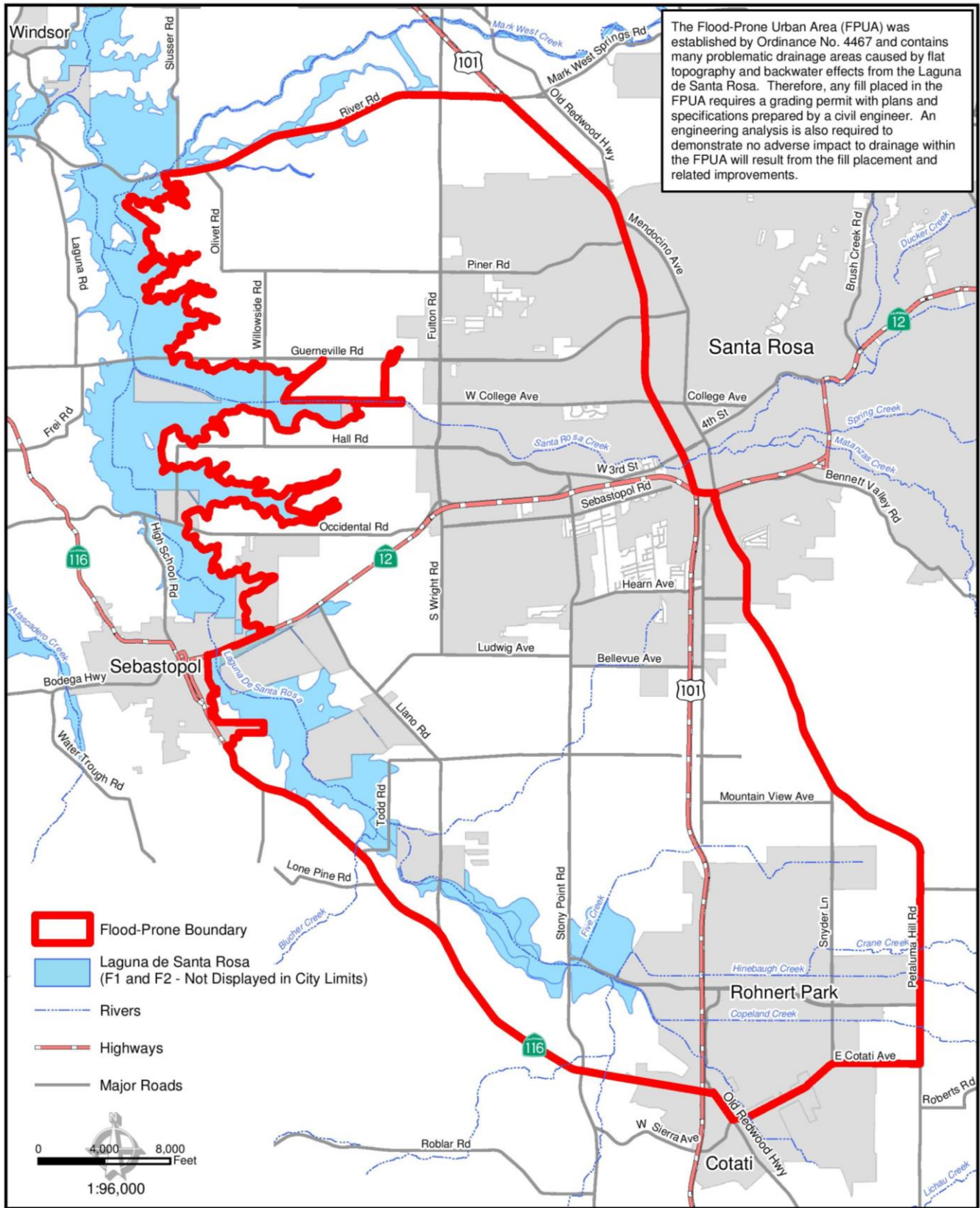
GRADING TYPE DETERMINATION		
	REGULAR	ENGINEERED
Volume (combined total of cut and fill)	Does not exceed 5,000 cubic yards	Exceeds 5,000 cubic yards
Cut	No greater than 2' in depth and does not create cut slope greater than 5' in height	Greater than 2' in depth or creates a cut slope greater than 5' in height
Fill in flood-prone urban area or special flood hazard area	Does not exceed 50 cubic yards	Exceeds 50 cubic yards
Fill outside flood-prone urban area or special flood hazard area	No greater than 3' in depth	Greater than 3' in depth
Natural slope of grading area	No steeper than 15%	Steeper than 15%
Geologic Hazard Area Combining District	Grading area is not in the Geologic Hazard Area Combining District	Grading area is wholly or partially in the Geological Hazard Area Combining District ¹
Geologic hazards	Grading area contains no geologic hazards	Grading area contains any geologic hazards ²

1 – The engineered grading designation shall apply only to the portion of the grading area that is in the Geological Hazard Area Combining District.

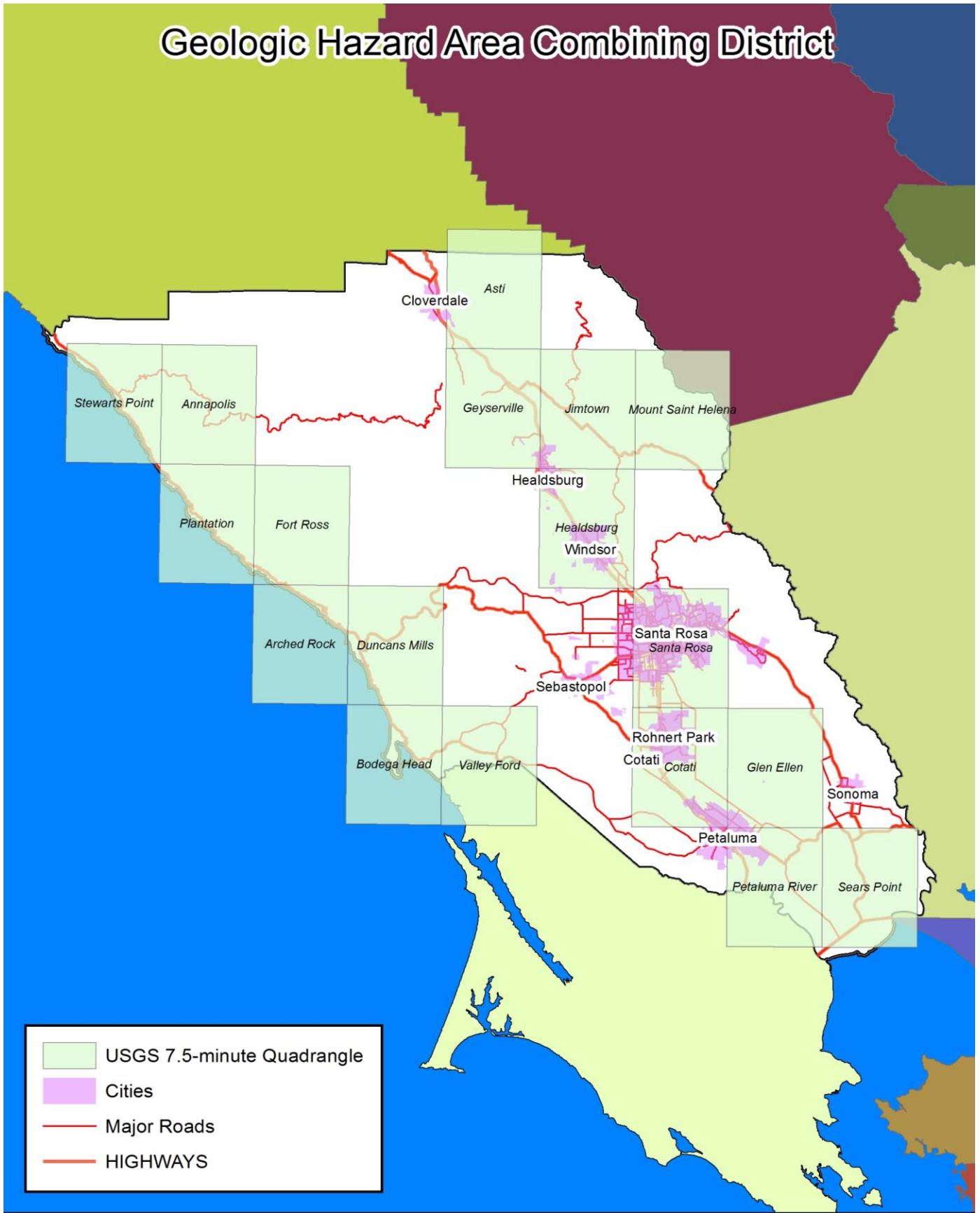
2 – The engineered grading designation shall apply only to the portion of the grading area that is directly affected by the geologic hazards.

DRAINAGE IMPROVEMENT TYPE DETERMINATION		
	REGULAR DRAINAGE	ENGINEERED DRAINAGE
Cross-sectional area of drainage improvement	Does not exceed 2 square feet	Exceeds 2 square feet

FLOOD-PRONE URBAN AREA

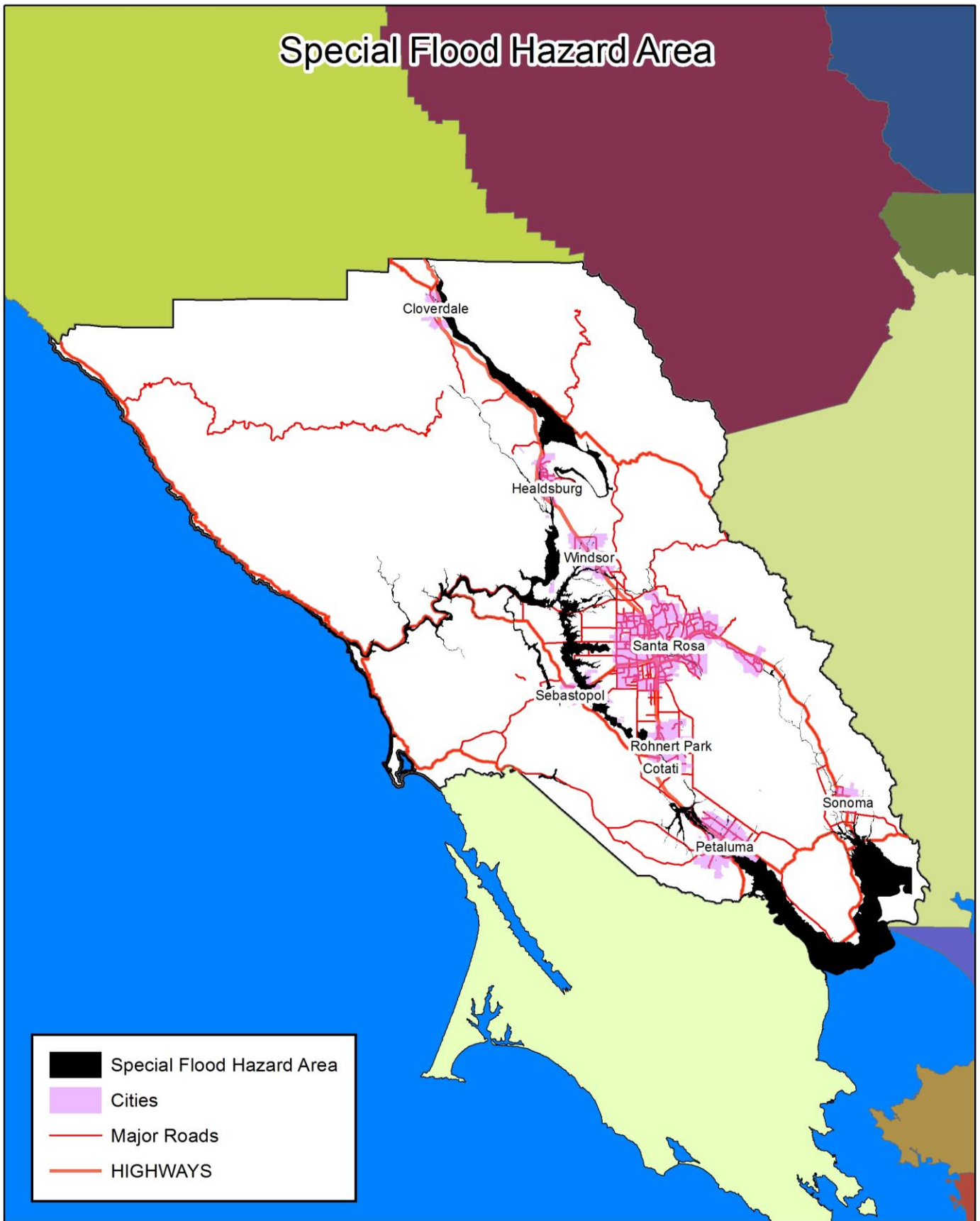


Geologic Hazard Area Combining District



Created on 07/09/2013
Sonoma County Agricultural Commissioner's Office





Created on 07/09/2013
Sonoma County Agricultural Commissioner's Office



PART F – INFORMATION: INSTRUCTIONS

PART A

- Check appropriate boxes to characterize your proposed development – New, Replant, Vineyard, Orchard, and Project Level.
- Please provide the mailing address, contact numbers, and email address for the property owner, project manager, and project engineer (if applicable). NOTE: owner must be legal owner of the parcel(s) under development.

PART B

- List address of the project development site as listed on the Sonoma County Assessor’s parcel records. NOTE: property must have a legal address listed with Sonoma County PRMD. Please visit <http://www.sonoma-county.org/prmd/fag/rdname-addr.htm> for additional information.
- List assessors parcel number(s) for the development site as listed on the Sonoma County Assessor’s parcel records.
- List total acreage of the parcel(s) where the proposed project is to take place.
- List total acres of soil disturbance, including the areas to be planted or replanted, avenues, staging areas, etc.
- List total acreage of the areas to be planted or replanted.
- List total acres of tree canopy to be removed.
- List total existing (pre-development) acreage of vineyard or orchard crops on the parcel(s) to be developed.
- Check appropriate box(es) that characterizes the previous land use – Ag Crop, Pasture, Rangeland, Timberland, and/or Other.
- List soil type(s) of the site from the NRCS (USDA) Soil Survey for Sonoma County.
- List highest natural slope on site. Slope can be determined by an USGS 7½ minute quadrangle map, clinometer readings at set distances parallel with the slope, a professional survey, or other method.
- List total volume of proposed cuts in cubic yards.
- List total volume of proposed fill in cubic yards.
- List steepest slope of cut slopes proposed to be created.
- List depth of cut slopes proposed to be created.
- List height of cut slopes proposed to be created.
- List steepest natural slope of the proposed grading area.
- List proposed number of acres to be graded.
- List fill material(s) to be used.
- Indicate if project is within a special flood hazard area, flood-prone urban area, and/or Geological Hazard Area Combining District.
- Note type(s) of drainage techniques utilized in the project drainage plans.
- List cross-sectional area (sq ft) of drainage improvement.
- List catchment area acreage included in engineered drainage design.

PART C

- List hydrologic features that occur in the vicinity of the site development area – perennial and ephemeral streams, wetlands, ponds, etc. Include planned setback requirements on all features.
- Identify areas that may need to be protected from erosion or sedimentation – critical habitat, riparian areas, etc.
- Describe proposed changes to species composition in the development area – tree removal, riparian restoration, etc.
- List land preparation strategies planned in development area – ripping, discing, terracing, dry farming, etc.
- Select and describe drainage structures proposed in development area.
- Describe type of roads and avenues proposed in development area.
- Describe appropriate Best Management Practices proposed to control erosion and sedimentation in development area.
- List implementation dates for temporary and final erosion and sedimentation control measures. Include all phases of project.

PART D

- Verify all required items are completed and/or included.
- Project authorization declaration statement completed by parcel(s) owner(s) or authorized representative and included.

PART F – INFORMATION: RESOURCES

If you are unsure about any of the practices necessary to prevent erosion and sedimentation movement from your site, the references listed below may be helpful:

References available online:

Sonoma County Department of Agriculture: <http://www.sonoma-county.org/agcomm/vesco.htm>

- *Best Management Practices for Agricultural Erosion and Sediment Control*
- *Sonoma County Code, Chapter 11*
- *The Vineyard Assessment Guide*

Sonoma Resource Conservation District: <http://www.sonomarcd.org>

- *The Vineyard Manual*

California Land Stewardship Institute: <http://www.fishfriendlyfarming.org>

- *Fish Friendly Farming*

California Sustainable Winegrowing Alliance: <http://www.sustainablewinegrowing.org/agrowersguide.php>

- *Reducing Risks Through Sustainable Winegrowing: A Grower's Guide*

Agencies:

California Department of Forestry & Fire Protection

Sonoma-Lake-Napa Unit
St. Helena, CA
Phone: (707) 967-1400
Web: <http://www.fire.ca.gov>

California Department of Fish & Wildlife

Bay Delta Region Headquarters
Napa, CA
Phone: (707) 944-5500
Web: <http://www.wildlife.ca.gov>

California Department of Water Resources

Sacramento, CA
Phone: (916) 653-5791
Web: <http://www.water.ca.gov>

California Regional Water Quality Control Board

Santa Rosa, CA
Phone: (707) 576-2220
Web: <http://www.swrcb.ca.gov>

National Marine Fisheries Service

Habitat Conservation Division
Santa Rosa, CA
Phone: (707) 575-6050
Web: <http://www.nrcs.usda.gov>

Sonoma County Assessor

Santa Rosa, CA
Phone: (707) 565-1888
Web: <http://www.sonoma-county.org/assessor>

Sonoma County Permit & Resource Management Department

Santa Rosa, CA
Phone: (707) 565-1900
Web: <http://www.sonoma-county.org/prmd>

United States Army Corps of Engineers

Regulatory Branch, North Section
San Francisco, CA
Phone: (415) 503-6795
Web: <http://www.spn.usace.army.mil>

United States Fish & Wildlife Services

Sacramento, CA
Phone: (916) 414-6600
Web: <http://www.fws.gov>

University of California Cooperative Extension – Sonoma

Santa Rosa, CA
Phone: (707) 565-2621
Web: <http://www.ucanr.edu>

PART F – INFORMATION: DEFINITIONS (see Sonoma County Code, Chapter 11 for complete list of definitions)

Agricultural Drainage Improvement: any drainage improvement for agricultural cultivation.

Agricultural Grading: any grading for agricultural cultivation; as used in this chapter, agricultural grading does not include grading for roads, dams, reservoirs, lakes, ponds, and/or pads for structures.

Area of Instability: an area of soil or rock prone to mass wasting, including slides, falls, slumps, and flows.

Drainage Improvement: any manmade improvement constructed to collect and convey storm water; as used in this chapter, drainage improvement includes construction, maintenance, repair, replacement, and/or modification of such improvements.

Excavation: the removal of earth material by artificial means; also referred to as a cut.

Fill: the deposition of earth materials by artificial means; as used in this chapter, fill does not include soil amendment and fertilizing materials.

Flood-Prone Urban Area: the area within the boundaries defined on the north by River Road; on the west by the easterly boundary of Laguna de Santa Rosa to its intersection with Highway 12 and continuing with the easterly limit of the city of Sebastopol to Highway 116; on the south by Highway 116 to its intersection with Old Redwood Highway then south to East Cotati Avenue and east to its intersection with Petaluma Hill Road; and on the east by Petaluma Hill Road, north to Highway 12 then west to Highway 101 and north to River Road.

Geologic Hazard: a geologic condition, either natural or manmade, that poses a potential danger to life and property – examples include landslides, flooding, faulting beach erosion, land subsidence, pollution, waste disposal, and foundation and footing failures.

Geologic Hazard Area Combining District: see Chapter 26, Article 70 and Chapter 26C, Article XXV of this code.

Grading: an excavation, fill, or combination thereof; as used in this chapter, grading does not include ripping, discing, plowing, harrowing, tilling, land planing no greater than 3' in depth, or other similar routine agricultural cultivation practices.

Natural Slope: the slope of the ground prior to any soil disturbance. Natural slope shall be determined by measuring the horizontal distance between adjacent contours on a USGS 7½ quadrangle map or other topographic map acceptable to county with a scale of not less than 1:24000 (1" = 2000') and contour intervals of not more than 20', and then dividing the difference in elevation between the two contours by the measured horizontal distance (horizontal distance shall be measured perpendicular to the contours).

Planting Area: the land area subject to a vineyard or orchard planting.

Ridgetop: a relatively flat topographic divide about divergent and descending slopes where one or more of the descending slopes has a natural slope steeper than 50% for more than 50' in slope length.

Site Clearing: any removal of vegetative ground cover that results in disturbance of soils, or any removal of existing agricultural plants, vines, or trees.

Slope: an inclined surface, the inclination of which is expressed as a ratio of horizontal distance to vertical distance – e.g. 2:1 – or as a percentage – e.g. 50%.

Stream: any natural channel with bed and banks containing flowing water or showing evidence of having contained flowing water such as deposit of rock, sand, gravel, or soil.

Soil Disturbance: any alteration to the natural surface of the ground through the use of construction equipment, tractors, and/or similar equipment.

Special Flood Hazard Area: any area designated by the Federal Emergency Management Agency as subject to flooding by the one (1) percent annual chance flood (one hundred year flood).

Top of Bank: the points in a cross-section where the stream channel makes a transition to flood plain. Top of bank can be identified by a change in the slope of land, a transition from terrestrial to riparian vegetation, and/or change in the composition of substrate materials.

Tree: a woody perennial plant, typically large with a well-defined stem carrying a definite crown, with a minimum diameter at breast height of five (5) inches and a minimum height of fifteen (15) feet.

Tree Removal: the removal of more than one-half (½) acre of tree canopy within the planting area.

Vegetative Filter Strip: a land area seeded to close growing or sod forming grasses; designed to filter out soil and other pollutants carried in storm water or waste water.

Vineyard Replanting: any replanting of an existing vineyard where the vineyard has been under active cultivation for the previous five (5) years, no grapevines are removed prior to the filing of a permit application for the replanting, and the footprint of the vineyard does not increase.

Wetlands: transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. Wetlands must have one or more of the following three attributes in the Coastal Zone, and two or more of the following attributes in all other parts of the unincorporated area of the county:

1. The land supports predominantly hydrophytes during the normal wet portion of the growing season.
2. The substrate is predominantly undrained hydric soil.
3. The substrate is saturated with water or covered by shallow water at some time during the normal wet portion of the growing season each year.

Wetlands Biologist: a biologist experienced and knowledgeable in the delineation of wetlands in California using applicable federal, state, and local criteria.

DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES

Tony Linegar
Agricultural Commissioner
Sealer of Weights and Measures



133 Aviation Boulevard, Suite 110
Santa Rosa, CA 95403-1077
(707) 565-2371 Fax (707) 565-3850
www.sonoma-county.org/agcomm

CONFIDENTIAL CROP ACREAGE SURVEY

DATE RECEIVED: _____ / _____ / _____

Please complete this form and include it with your vineyard/orchard development permit application packet. This information will be used to update the Department of Agriculture's annual Sonoma County Agricultural Crop Report. This report promotes the value and importance of Sonoma County's agricultural industry. **All information provided is kept confidential; only grand totals are made public.**

OWNER NAME: _____ OPERATOR NAME: _____

PHONE: _____ EMAIL: _____

PARCEL ADDRESS: _____

APN(s): _____ ACRES TO BE PLANTED: _____

BLOCK(s): _____

PESTICIDE PERMIT NUMBER: _____ SITE NUMBER: _____

VINEYARD APPELLATION AREA*: _____ ACO #: _____

Areas include: Alexander Valley, Bennett Valley, Carneros, Chalk Hill, Dry Creek Valley, Fort Ross-Seaview, Green Valley, Knights Valley, Moon Mountain, Pine Mountain-Cloverdale Peak, Rockpile, Russian River Valley, Sonoma Coast, Sonoma Mountain, and Sonoma Valley.

Proposed Planting of Vineyard/Orchard – check one: New Replant

Crop	Variety	Year to be Planted	Spacing	# of Vines or Trees	Net Crop Acres
<i>Example: Grapes</i>	<i>Chardonnay</i>	<i>2015</i>	<i>6x8</i>	<i>10,981</i>	<i>12.1</i>

Proposed Removal of Existing Vineyard/Orchard (required if vineyard/orchard currently planted on parcel)

Crop	Variety	Year to be Removed	Spacing	# of Vines or Trees	Net Crop Acres

DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES

Tony Linegar
Agricultural Commissioner
Sealer of Weights and Measures



133 Aviation Boulevard, Suite 110
Santa Rosa, CA 95403-1077
(707) 565-2371 Fax (707) 565-3850
www.sonoma-county.org/agcomm

VINEYARD & ORCHARD FROST PROTECTION REGISTRATION

Registration only required if located within the Russian River Watershed and using water for frost protection. Incomplete or faxed registrations will not be accepted. Registration must include aerial map of the site. Please do not leave blank spaces – enter N/A if needed. One form per site to be registered or amended. For amendments, provide the existing registration number, aerial map, and updated information. **Registration fee of \$64 is required at time of initial registration and amendment due to change in the frost system or owner/operator. No fee required if water source is exclusively from treated waste water.** For additional information and detailed instructions, please visit: http://www.sonoma-county.org/agcomm/frost_protection.htm.

OFFICE USE ONLY		(04/17/2015)
Date Received:	_____ / _____ / _____	
Reg/Amend Date:	_____ / _____ / _____	
Registered By:	_____	
Registration #:	AFM _____ - _____	
REGISTRATION FEE: \$64 <input type="checkbox"/> Paid <input type="checkbox"/> Outstanding		

Check one: New Registration Amended Registration

PROPERTY OWNER: _____

DBA: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

AUTHORIZED REPRESENTATIVE (if different than owner above): _____

COMPANY: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

SITE ADDRESS: _____

ASSESSOR'S PARCEL NUMBER(S): _____

CORRESPONDING PESTICIDE PERMIT SITE ID #(S): _____

TOTAL FROST PROTECTED ACREAGE: _____

ARE YOU PART OF A STATE APPROVED WATER DEMAND MANAGEMENT PROGRAM? YES NO

IF YES, PLEASE INDICATE GROUP AND/OR TRIBUTARY NAME: _____

I CERTIFY THAT THE INFORMATION PROVIDED IS CORRECT AND VALID TO THE BEST OF MY KNOWLEDGE.

Print Name: _____ Date: _____

Signature: _____ Check one: Owner Authorized Representative

FROST PROTECTION SYSTEM INVENTORY

Label your attached aerial map with the map ID numbers you assign below (1, 2, 3, etc.). Use an additional sheet if additional wells, point of diversion (POD) or frost pumping systems are used per site. **DISCLAIMER: this registration is solely for the purpose of producing an inventory of frost protection systems. Additional permits and/or authorizations from other regulatory agencies may be required to divert or use water for frost protection.**

Check applicable: Vineyard Orchard **Registration #:** AFM _____ - _____ **APN(s):** _____

SYSTEM TYPE (fill in all that apply):

Type	# of Acres Protected	Gallons per Acre per Minute
Sprinkler		
Micro Sprinkler		

Map ID #		Number of Acres Protected
	Frost Pumping System(s)	
	Frost Pumping System(s)	

STORAGE TYPE (fill in all that apply):

Map ID #	Storage Type	Acre Feet	Recharge Rate	Source (river, stream, well, etc.)
	Reservoir/Pond			
	Offsite			
	Tank			

SOURCE OF WATER (fill in all that apply):

Map ID #	Type	Gallons per Minute (GPM)		
	Recycled Water			
	Direct Diversion from River or Stream			
	Shared System (NOTE TYPE)			
	Sub Surface (Sump/French Drain)			
	Surface Drainage			
	Other Water Source (NOTE TYPE)			
Map ID #	Type	GPM - from pump (pump rating)	Depth (pump setting)	Distance from stream (in feet)
	Well			
	Well			

AERIAL MAP REQUIRED. Attach map with frost protected area noting the following: highlighted vineyard, Assessor Parcel Number(s), frost pumps, water storage, and water sources marked using Map ID numbers from above.

DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES

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VINEYARD & ORCHARD FROST PROTECTION NEGATIVE DECLARATION

Fill out one form for each site located within the Russian River Watershed that does NOT use water for frost protection. Form must be signed by property owner or authorized representative.

OFFICE USE ONLY		<small>(04/14/2015)</small>
Date Surveyed:	_____ / _____ / _____	
Surveyed By:	_____	
Site Address:	_____	
Prior Reg # (if applicable): AFM	_____ - _____	

Check one: Vineyard Orchard

PROPERTY OWNER: _____

DBA: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

AUTHORIZED REPRESENTATIVE (if different than owner above): _____

COMPANY: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

SITE ADDRESS: _____

ASSESSORS PARCEL NUMBER(S): _____

CORRESPONDING PESTICIDE PERMIT SITE ID #(S): _____

FROST PROTECTION (check the statement that best applies): No frost protection system.
 Frost protection system does not use water – fans, etc.

I CERTIFY THAT THE INFORMATION PROVIDED IS CORRECT AND VALID TO THE BEST OF MY KNOWLEDGE.

Print Name: _____ Date: _____

Signature: _____ Check one: Owner Authorized Representative