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**North Coast Regional Water Quality Control Board**

October 9, 2013

In the Matter of

**Water Quality Certification**

for

**Chrome Iron Vineyard/Icaria Creek Streambank Restoration Project  
WDID 1B13082WNSO**

APPLICANT: Jim Ledbetter  
RECEIVING WATER: Icaria Creek  
HYDROLOGIC UNIT: Russian River Hydrologic Unit, Geyserville Hydrologic Sub-Area 114.25  
COUNTY: Sonoma  
FILE NAME: Chrome Iron Vineyard/Icaria Creek Streambank Restoration Project

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BY THE EXECUTIVE OFFICER:

1. On June 27, 2013, Jim Ledbetter (Applicant) filed an application for water quality certification (certification) under section 401 of the Clean Water Act (33 U.S.C. § 1341) with the California Regional Water Quality Control Board, North Coast Region (Regional Water Board) for activities associated with the Chrome Iron Vineyard/Icaria Creek Streambank Restoration Project (project). Information describing the project was noticed for public comment on the Regional Water Board's website on October 9, 2013. Under Title 23, California Code of Regulations, Section 3858(a): "The executive director or the executive officer with whom an application for certification is filed shall provide public notice of an application at least twenty-one (21) days before taking certification action on the application, unless the public notice requirement has been adequately satisfied by the applicant or federal agency. If the applicant or federal agency provides public notice, it shall be in a manner and to

an extent fully equivalent to that normally provided by the certifying agency. If an emergency requires that certification be issued in less than 21 days, public notice shall be provided as much in advance of issuance as possible, but no later than simultaneously with issuance of certification." Due to the nature of water quality impact and public safety issues associated with significant sediment delivery from actively eroding banks during the wet season, as well as erosion that threatens an existing structure, 401 Water Quality Certification will be issued during the 21-day public comment period. Public comments will still be accepted and reviewed during the entire 21-day comment period. The Project is located at 27105 Chrome Iron Road, Cloverdale, CA 95425, at latitude 38.771902°N, and longitude 122.990316°W. The proposed Project would cause disturbances to waters of the United States (U.S.) and the State associated with Icaria Creek, a linear water course within the Russian River Hydrologic Unit, Geyserville Hydrologic Sub-Area 114.25. Permanent impacts to waters of the U.S. would be approximately 170 linear feet, approximately 690 square feet. Permanent impact to waters of the state would be approximately 170 linear feet, approximately 2490 square feet.

The primary purpose of the project is to prevent bank erosion at one site, approximately 170 feet in length, which is contributing sediment to Icaria Creek, tributary to the Russian River, and threatening to capture a vineyard road. The project involves stabilization of 170 feet of the bank using bioengineered live willow structures, with a total disturbed area of 3,180 square feet along the south side of Icaria Creek. For the first 110 feet of the project length, a 15-foot wide live willow brush mattress will be installed with a rock toe. 4-foot long live willow stakes will be driven in on 3-foot centers over the surface as tie downs. Live willow cuttings will be placed in the toe trench, which will be keyed into the water table. 1.5-3 ton rock will be placed in the toe trench to hold them in place. More layers of willow branches will be laid upslope. Approximately 20 cubic yards of gravel, skimmed from the opposing gravel bar, will be placed on top of the willow mattress to prevent drying while the willow roots. A slope of rock and brush layers will be installed along the remaining 60 feet of bank. The height of the bank ranges from 10 feet to 18 feet and the slope ratio will be 1.5:1 after construction. 2-3 ton footer rocks will be keyed into the stream bed, followed by a layer of live willow covered with gravel and built up with consecutive layers of 2-3 ton rock, willow, and gravel.

The project will employ best management practices to prevent or reduce any discharges during and after construction.

2. The project is planned to take place in the fall of 2013. Work is proposed to last for approximately 2.5 weeks.

3. Mitigation for the impacts to stream bank include: bioengineered bank protection; revegetation of the bank with native willow; and protection of disturbed, bare areas with mulch, native grass and wildflower mix, and coir or jute netting. These mitigation techniques will reduce the active delivery of sediment to the creek. Additional plantings at the top of the bank include toyon, coyote brush, and elderberry. All plantings will be maintained and monitored for a minimum of five years, to meet the success criteria of at least 85% survival. The Project will employ best management practices to prevent or reduce any discharges during and after construction.
4. The Applicant has been authorized by the United States Army Corps of Engineers for a Clean Water Act, section 404 permit (File Number 2013-00312N). Additionally, the applicant has been issued a Streambed Alteration Agreement (Notification No. 1600-2013-0252-R3) by the California Department of Fish and Wildlife.
5. The North Coast Regional Water Quality Control Board, as lead California Environmental Quality Act (CEQA) agency, had determined that the project qualifies for a Categorical Exemption, 15321 (a) Enforcement Actions by Regulatory Agencies, and will file a Notice of Exemption with the State Clearinghouse concurrent with issuance of the 401 Water Quality Certification, pursuant to CEQA guidelines.
6. This discharge is also regulated under State Water Resources Control Board Order No. 2003-0017-DWQ, "General Waste Discharge Requirements for Dredge and Fill Discharges That Have Received State Water Quality Certification," which requires compliance with all conditions of this water quality certification.  
[http://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/water\\_quality/2003/wqo/wqo2003-0017.pdf](http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2003/wqo/wqo2003-0017.pdf)

Receiving Water: Icaria Creek  
Russian River Hydrologic Unit, Geyserville Hydrologic  
Sub-Area 114.25

Filled or Excavated Area: Permanent impact to waters of the U.S.:  
170 linear feet / 690 Square feet  
Permanent impact to waters of the State:  
170 linear feet / 2490 Square feet

Dredge Volume 30.6 cubic yards gravel/soil  
Fill Volume 240 cubic yards rip rap

Latitude/Longitude: 38.771902°N / 122.990316°W

Expiration: October 9, 2018

Accordingly, based on its independent review of the record, the Regional Water Board certifies that the Chrome Iron Vineyard/Icaria Creek Streambank Restoration Project (WDID 1B13082WNSO), as described in the application, will comply with sections 301, 302, 303, 306 and 307 of the Clean Water Act, and with applicable provisions of state law, provided that the Applicant complies with the following terms and conditions:

All conditions of this order apply to the Applicant (and all their employees) and all contractors (and their employees), sub-contractors (and their employees), and any other entity or agency that performs activities or work on the project as related to this Water Quality Certification.

1. This certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330 and title 23, California Code of Regulations, section 3867.
2. This certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification application was filed pursuant to title 23, California Code of Regulations, section 3855, subdivision (b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.

3. The validity this certification is conditioned upon total payment of any fee required under title 23, California Code of Regulations, section 3833, and owed by the Applicant.
4. The revegetation will be implemented as described in the application as submitted by Bioengineering Associates, Inc. on June 27, 2013, as well as subsequent submittals to the application. Mitigation for the impacts to stream bank include: bioengineered bank protection; revegetation of the bank with native willow; and protection of disturbed, bare areas with mulch, native grass and wildflower mix, and coir or jute netting. Additional plantings at the top of the bank include toyon, coyote brush, and elderberry. All plantings will be irrigated as needed, maintained and monitored for a minimum of five years, to meet the success criteria of at least 85% survival.
5. The Russian River is identified as impaired for sediment and temperature under Clean Water Act Section 303(d). At present, total maximum daily loads (TMDLs) have not been established for this water body. If TMDLs are established and implementation plans are adopted for this watershed prior to the expiration date of the requested Certification, the Regional Water Board may revise the provisions of that Certification to address actions identified in such action plans. Bank erosion is identified as a source contributing to the sediment impairment. Removal of riparian vegetation is identified as a source contributing to temperature impairment. Activities that will be authorized by this Order are designed to reduce removal of riparian vegetation and reduce sediment discharges from bank erosion. Accordingly, this Order is consistent with, and implements, BMPs that would attenuate sediment and temperature adverse impacts.
6. Pursuant to Regional Water Board Resolution R1-2004-0087, Total Maximum Daily Load Implementation Policy Statement for Sediment-Impaired Receiving Waters within the North Coast Region (Sediment TMDL Implementation Policy), the Executive Officer is directed to "rely on the use of all available authorities, including existing regulatory standards, and permitting and enforcement tools to more effectively and efficaciously pursue compliance with sediment-related standards by all dischargers of sediment waste."
7. The federal antidegradation policy requires that state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16. Resolution No. 68-16 incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings. The Regional Water Board's Basin Plan implements, and incorporates by reference, both the State and federal antidegradation policies. This

Order is consistent with applicable federal and State antidegradation policies, as it does not authorize the discharge of increased concentrations of pollutants or increased volumes of treated wastewater.

8. Any water pumped from the work area shall not be discharged back to the creek; it shall be pumped to a tank or other conveyance and disposed of at a legal point of disposal.
9. Applicant shall prioritize the use of wildlife-friendly 100% biodegradable erosion control products/BMPs whenever feasible. For purposes of this Order, photodegradable synthetic products are not considered biodegradable. Applicant shall not use or allow the use of erosion control products that contain synthetic (e.g., plastic or nylon) netting or materials for permanent erosion control (i.e., erosion control materials to be left in place for two years or after the completion date of the Project). If the Applicant finds that erosion control netting or products have entrapped or harmed wildlife, the Applicant shall remove the netting or product and replace it with wildlife-friendly biodegradable products. Applicant shall remove any remaining synthetic netting or materials remaining at the end of two years, or sooner.
10. BMPs shall be implemented as proposed in the application materials. BMPs for erosion, sediment and turbidity control shall be implemented and in place at commencement of, during and after any ground clearing activities or any other Project activities that could result in erosion or sediment discharges to surface water. Severe and unseasonal rain events are becoming more frequent due to the effects of climate change. Therefore, BMPs shall be immediately available for deployment at all times to prevent discharges to waters of the state.
11. No debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete washings, oil or petroleum products, or other organic or earthen material from any construction or associated activity of whatever nature, other than that authorized by this Order, shall be allowed to enter into or be placed where it may be washed by rainfall into waters of the State. When operations are completed, any excess material or debris shall be removed from the work area.
12. The Applicant shall provide Regional Water Board staff access to the Project site to document compliance with this certification.
13. If, at any time, an unauthorized discharge to surface water (including wetlands, lakes, rivers or streams) occurs, or any water quality problem arises, the associated Project activities shall cease immediately until adequate BMPs are implemented including stopping work. The Regional Water Board shall be notified promptly and in no case more than 24 hours after the unauthorized discharge or water quality problem arises.

14. Prior to implementing any change to the Project that may have a significant or material effect on the findings, conclusions, or conditions of this Order, the Applicant shall obtain the written approval of the Regional Water Board Executive Officer. If the Regional Water Board is not notified of a significant alteration to the Project, it will be considered a violation of this Order, and the Applicant may be subject to Regional Water Board enforcement action(s).
15. All Project work shall be conducted as described in this Order and in the application submitted by the Applicant, and shall comply with all applicable water quality standards as detailed in the Basin Plan. If the Regional Water Board is not notified of a significant alteration to the Project, it will be considered a violation of this Order, and the Applicant may be subject to Regional Water Board enforcement actions.
16. The Applicant shall provide a copy of this Order and State Water Resources Control Board (SWRCB) Order No. 2003-0017-DWQ to any contractor(s), subcontractor(s), and utility company(ies) conducting work on the Project, and shall require that copies remain in their possession at the work site. The Applicant shall be responsible for ensuring that all work conducted by its contractor(s), subcontractor(s), and utility companies is performed in accordance with the information provided by the Applicant to the Regional Water Board.
17. Disturbance or removal of existing vegetation shall not exceed the minimum necessary to complete the Project.
18. Fueling, lubrication, maintenance, storage, and staging of vehicles and equipment shall not result in a discharge or threatened discharge to any waters of the State including dry portions of the shoreline. At no time shall the Applicant or its contractors allow use of any vehicle or equipment, which leaks any substance that may impact water quality.
19. The Regional Water Board may add to or modify the conditions of this Order, as appropriate, to implement any new or revised water quality standards and implementation plans adopted and approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.
20. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under applicable state or federal law. For the purposes of section 401(d) of the Clean Water Act, the applicability of any state law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water

quality standards and other pertinent requirements incorporated into this Order. In response to a suspected violation of any condition of this certification, the State Water Board may require the holder of any federal permit or license subject to this Order to furnish, under penalty of perjury, any technical or monitoring reports the State Water Board deems appropriate, provided that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. In response to any violation of the conditions of this Order, the Regional Water Board may add to or modify the conditions of this Order as appropriate to ensure compliance.

21. In the event of any change in control of ownership of land presently owned or controlled by the Applicant, the Applicant shall notify the successor-in-interest of the existence of this Order by letter and shall forward a copy of the letter to the Regional Water Board at the above address.

To discharge dredged or fill material under this Order, the successor-in-interest must send to the Regional Water Board Executive Officer a written request for transfer of the Order. The request must contain the requesting entity's full legal name, the state of incorporation if a corporation, and the address and telephone number of the person(s) responsible for contact with the Regional Water Board.

The request must also describe any changes to the Project proposed by the successor-in-interest or confirm that the successor-in-interest intends to implement the Project as described in this Order. Except as may be modified by any preceding conditions, all certification actions are contingent on: a) the discharge being limited to and all proposed mitigation being completed in strict compliance with the Applicant's Project description, and b) compliance with all applicable requirements of the Water Quality Control Plan for the North Coast Region (Basin Plan).

22. The authorization of this certification for any dredge and fill activities expires on October 9, 2018. Conditions and monitoring requirements outlined in this Order are not subject to the expiration date outlined above, and remain in full effect and are enforceable.

If you have any questions or comments, please call Stephen Bargsten at (707) 576-2653 or Kaete King at (707) 576-2848.

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Matthias St. John  
Executive Officer

131009\_Chrome\_Iron\_401

Weblink: State Water Resources Control Board Order No. 2003-0017 -DWQ, General Waste Discharge Requirements for Dredge and Fill Discharges That Have Received State Water Quality Certification can be found at:  
[http://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/water\\_quality/2003/wqo/wqo2003-0017.pdf](http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2003/wqo/wqo2003-0017.pdf)

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