

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION**

ORDER NO. R2-2020-00XX

**AMENDED WASTE DISCHARGE REQUIREMENTS and WATER QUALITY
CERTIFICATION, ORDER No. R2-2019-0023 for:**

**Napa County Flood Control and Water Conservation District
Stream Maintenance Program
Napa County**

**San Mateo County
Routine Maintenance Program
San Mateo County**

**Contra Costa County Flood Control and Water Conservation District and
Contra Costa County Public Works Department
Routine Maintenance Program
Contra Costa County**

The California Regional Water Quality Control Board, San Francisco Bay Region (Water Board), finds that:

- 1. Water Quality Regulation.** The Water Board regulates discharges to surface waters and controllable water quality factors to protect the physical, chemical, and biological components of aquatic ecosystems and the associated functions provided by streams, wetlands, and associated riparian areas. Stream maintenance activities may affect vegetation or the physical features of a stream or riparian area and are considered controllable water quality factors.
- 2. Stream Maintenance Regulation.** The Water Board regulates the implementation of Stream Maintenance Programs (SMPs), also called Routine Maintenance Programs (RMPs), for routine stream maintenance activities, including sediment and debris removal, vegetation management, bank stabilization, and other maintenance activities in streams. Routine maintenance activities generally provide flood protection by maintaining conveyance capacity and also enhance and protect natural resources.
- 3. Order.** This amended Order applies to stream maintenance activities conducted pursuant to an approved SMP or RMP Manual (Manual) to guide implementation of each SMP or RMP. Each Manual describes routine stream maintenance activities conducted in a manner that enhances ecosystem processes while helping to mitigate flood-related hazards. Each Manual includes methods to improve understanding of channel conditions, identify potential underlying causes for maintenance, and develop channel discharge and vegetation objectives to reduce the frequency and need for future maintenance activities. This Order may be further

amended to include additional Dischargers or to authorize SMPs or RMPs in other counties upon submittal of a complete application for Waste Discharge Requirements (WDRs) and Clean Water Act (CWA) Section 401 Water Quality Certification (Certification), including an approved Manual.

- 4. Authorized Manual Revisions.** Each Manual and its appendices are considered a “living document” that may be updated or revised to improve maintenance protocols and increase their environmental protectiveness. Proposed changes will be submitted via an Annual Notification Report (ANR) or Annual Post-Maintenance Report for review and approval. All changes to an SMP or RMP Manual and its associated attachments must comply with all terms and conditions of this amended Order and be approved in writing by the Executive Officer.
- 5. Dischargers.** This Order applies to the following programs, collectively referred to hereafter as the Dischargers:
 - The Napa County Flood Control and Water Conservation District’s (Napa County Flood Control District’s) SMP;
 - The County of San Mateo’s (San Mateo County’s) RMP; and
 - The Contra Costa County Flood Control and Water Conservation District and Contra Costa County Public Works Department’s (Contra Costa County Flood Control District’s) RMP.
- 6. Program Specifics.** The actions, impacts, mitigation, and requirements set forth in this amended Order reflect the differences among the Dischargers’ stream maintenance activities. Each Discharger implements stream maintenance activities specific to the watersheds it manages:
 - a. Napa County Flood Control:*
 - i. The Napa County Flood Control District’s SMP covers stream maintenance activities within the Napa River watershed, which drains to San Pablo Bay, and the portion of the Suisun Creek watershed within Napa County, which drains to Suisun Bay. This amended Order does not apply to stream maintenance activities conducted in the Lake Berryessa/Putah Creek watershed, which is under the jurisdiction of the Central Valley Regional Water Quality Control Board;
 - ii. The Napa County Flood Control District’s program maintains approximately 13 miles of flood control channels and easements within areas where the land use is a mix of rural and urban uses comprising small cities and towns with a significant agricultural presence.
 - b. San Mateo County:* San Mateo County’s RMP covers stream maintenance activities within two physiographic regions: (1) County areas draining to San Francisco Bay (Bayside); and (2) County areas draining to the Pacific Ocean (Coastside) with the following watersheds:
 - i. Bayside: San Francisco Bay, Visitacion Valley, Colma Creek, San Mateo Creek, Cordilleras Creek, San Mateo Creek, and San Francisquito Creek watershed; and

- ii. Coastside: San Pedro Creek, Denniston Creek, Arroyo Leon, Purisima Creek, San Gregorio Creek, La Honda Creek, Upper Pescadero Creek, Lower Pescadero Creek, Butano Creek, and the Gazos Creek watershed. The Gazos Creek watershed is under the jurisdiction of the Central Coast Regional Water Board and is not covered by this amended Order.

The San Mateo County Department of Public Works (DPW) and Parks Department (Parks Department) are responsible for conducting routine maintenance activities to ensure that County facilities function properly. DPW maintains over 300 miles of roadway and associated facilities, including shoulder areas, roadside ditches, ditch relief culverts, bridges, green infrastructure (GI¹) and low impact development (LID)-based stormwater facilities, and flood control facilities in active flood control zones.

- c. *Contra Costa County Flood Control District*: Contra Costa County Flood Control District: The Contra Costa County Flood Control District's RMP covers routine maintenance activities in the Wildcat Creek, San Pablo Creek, Rheem Creek, Garrity Creek, Pinole Creek, Rodeo Creek, Alamo Creek, DA128, Vine Hill Creek, and Pacheco Creek (also known as Walnut Creek) watersheds. This amended Order does not apply to routine maintenance activities in the East Antioch Creek and Marsh Creek watersheds, which are under the jurisdiction of the Central Valley Regional Water Quality Control Board.
 - i. The Contra Costa County Flood Control District's program maintains approximately 77 miles of streams that are engineered flood control channels (18.75 miles of concrete-lined channel) within an urbanized setting.

7. Applications. To enroll under this amended Order, each Discharger submitted an application for Certification and Waste Discharge Requirements for its respective SMP or RMP, as follows:

- a. *Napa County Flood Control District*. On June 5, 2018, Napa County Flood Control District submitted an application for reissuance of Waste Discharge Requirements (WDRs) and Water Quality Certification (Certification) for its SMP. Napa County Flood Control District previously conducted stream maintenance activities under Waste Discharge Requirements (WDRs) and Water Quality Certification Order No. R2-2012-0063. On July 10, 2019, Napa County Flood Control District's stream maintenance activities under Order R2-2012-0063 were reauthorized under Order No. R2-2019-0023. This amended Order makes no changes to Napa County Flood Control District's ongoing maintenance activities within its maintenance jurisdiction, described in its updated SMP Manual, dated January 2019 (Napa Manual or SMP Manual) (Attachment A), and summarized in Finding 6(a);
- b. *San Mateo County*. On May 1, 2019, San Mateo County submitted an application for WDRs and Certification for its RMP. This amended Order authorizes San Mateo County's maintenance activities within its maintenance jurisdiction as described in its

¹ San Mateo County's RMP Manual defines GI activities as vegetation and thatch removal and light sediment and debris clearing and planting in their GI roadside swales and bioretention areas that require periodic maintenance.

RMP Manual, dated August 2020 (San Mateo Manual or RMP Manual) and summarized in Finding 6(b);

- c. *Contra Costa County Flood Control District*. On October 4, 2019, the Contra Costa County Flood Control District submitted an application for WDRs and Certification for its RMP. This amended Order authorizes Contra Costa County Flood Control District's maintenance activities within its maintenance jurisdiction as described in its RMP Manual, dated October 2020 (Contra Costa Manual or RMP Manual) and summarized in Finding 6(c).

I. Stream Maintenance Program/Routine Maintenance Program

8. **Stream Maintenance Activities.** The Dischargers' SMP and RMP Manuals (Manuals) include the following primary maintenance activities: (1) vegetation management; (2) downed tree management; (3) erosion protection; (4) culvert repair and replacement projects and (5) sediment and debris removal. The Contra Costa County Flood Control District's Manual also includes culvert repair and replacement as a primary maintenance activity. In addition, the Manuals discuss other, less-frequent maintenance activities specific to each Discharger (see "Other Maintenance Activities" below each Discharger):
9. **Stream Categories.** The Manuals categorize streams by channel type. The Manuals also characterize the hydrologic, geomorphic, and biological processes influencing each stream reach where maintenance is conducted. The channel type and stream reach characterizations help determine the timing, frequency, strategy, and need for maintenance activities. Maintenance activities in natural streams are more limited compared to maintenance activities in other channel types. Each Discharger's Manual categorizes the streams where maintenance activities will be conducted as follows:
 - a. *Napa County Flood Control District*: Napa County Flood Control District categorizes streams according to the following channel types: (1) engineered channels; (2) modified channels; (3) semi-modified channels; and (4) natural streams;
 - b. *San Mateo County*: San Mateo County's RMP categorizes channels into three general types: (1) unmodified, natural channels; (2) modified earthen channels; or (3) road and bridge culverts;
 - c. *Contra Costa County Flood Control District*: Contra Costa County Flood Control District's RMP categorizes streams according to the following channel types: (1) concrete bed and bank channels; (2) concrete bed with earthen bank channels; (3) concrete bed with riprap bank channels; (4) earthen bed and bank channels; (5) earthen bed with riprap bank channels; (6) earthen bed with concrete bank channels; and (7) natural channels.
10. **Vegetation Management.** Vegetation management generally refers to selective trimming, thinning, mowing, and removal of trees and vegetation that increase flood risk or are a flood hazard. Vegetation management activities also include maintenance conducted for public safety and to reduce fire fuel load. Vegetation management is required to be performed in a manner designed to prevent or minimize erosion, sedimentation, and loss of habitat.

- 11. Downed Tree Management.** Downed tree management refers to pruning, stabilizing, repositioning, or removal of fallen trees and large branches that increase flood risk, erosion, or threaten infrastructure like stream crossings or culverts. Downed tree management is required to be performed in a manner designed to maximize in-stream habitat value of this woody debris, while still maintaining channel flow capacity.
- 12. Erosion Protection.** Erosion protection refers to activities implemented to manage erosion, repair or enhance eroded banks, and to stabilize streambanks to reduce or eliminate the need for future maintenance. Bank stabilization activities are required to use bioengineering techniques to the maximum extent practicable and minimize the use of hardscape.
- 13. Sediment and Debris Removal.** Sediment and debris removal refers to activities that remove accumulated sediment and debris from stream channels to restore conveyance capacity and alleviate flood risk. Sediment and debris removal activities are required to be conducted with the minimum amount of soil disturbance to prevent downstream sedimentation. Sediment removal is limited to occur within the following channel types, by Discharger:
- a. Napa County Flood Control District modified and engineered channels, or within proximity to culverts and bridges;
 - b. San Mateo County: (1) unmodified, natural channels; (2) modified earthen channels; or road and bridge culverts; and
 - c. Contra Costa County Flood Control District: (1) concrete bed and bank channels; (2) concrete bed with earthen bank channels; (3) concrete bed with riprap bank channels; (4) earthen bed and bank channels; (5) earthen bed with riprap bank channels; (6) earthen bed with concrete bank channels; and (6) natural channels;
- 14. Roadside Ditch and Swale Maintenance.** Roadside ditch and swale maintenance refers to sediment and vegetation clearing from unpaved and paved roadside ditches and swales.
- 15. Other Maintenance Activities** Each Discharger also conducts routine maintenance and monitoring activities, as follows:
- a. Napa County Flood Control District:
 - i. conducts routine monitoring and maintenance for other projects, including (1) restoration projects within the Napa County Community Facilities District (Rutherford Reach and Oakville to Oak Knoll Reach; Napa County Manual Appendices A and B), (2) dredged material rehandling sites (Edgerly Island and Imola Avenue sites, Napa County Manual Chapter 10), and (3) the Napa River/Napa Creek Flood Protection Project (Napa County Manual Appendix M). Restoration projects will be monitored and maintained as described in the Napa County Manual and in project-specific maintenance plans approved by State and federal agencies. Maintenance of uplands at dredged material rehandling sites, including mowing the levees to minimize potential fire hazards, is also described in the Napa County Manual;

- ii. has partnered with the Napa Resource Conservation District to protect streams and water resources in the County by improving and maintaining unpaved roadways and drainages to reduce erosion and improve water quality. The Manual describes unpaved road maintenance goals, project activities, methods, and avoidance and minimization measures (Napa County Manual Appendix L);
 - iii. describes maintenance activities in its Manual to maintain channel access roads, roadside drainage ditches, bridges, drainage systems and outfalls, and to repair and replace culverts and beaver controls (Napa County Manual Chapter 12); and
 - iv. has developed a Post-Construction Contingency Plan (PCCP; Manual Appendix N) that describes long-term monitoring of the Petroleum Residual Contamination Area (PRCA), located between 5th Street and Tulocay Creek, where petroleum contamination in soil and groundwater was investigated and remediated concurrent with construction of the Napa River/Napa Creek Flood Protection Project. The cleanup involved removal of petroleum-impacted soil and capping of residual contamination in soils. The PCCP requires semi-annual inspections of the soil cap and implementation of corrective actions as needed to ensure the long-term protectiveness of the cleanup.
- b. San Mateo County conducts routine maintenance for:
- i. on-channel crossings; roadside ditch relief culverts; flood control channels, drainages, and creeks; roadside ditches and swales; roads; green infrastructure (GI); and storm drain facilities including storm drain pipes, manholes, catch basins, trash capture devices, flap gates, pump stations, and diversion structures;
 - ii. marina facilities, including, but not limited to, docks, pump out facilities, sewer line and tank repair, water lines, boat launch ramps, and seawall revetments (San Mateo County Chapter 8); and
 - iii. road and trail grading, fire fuel management, concrete channel repair, repair of existing rock slope protection along creek banks, and maintenance of tide gates, floodwalls, bridges, and levees.
- c. Contra Costa County Flood Control District conducts routine maintenance activities for:
- i. instream and off-line detention basins, channel access roads and ramps, repair and replacement of culverts, flap gates, and diversion structures, and trash and debris removal; and
 - ii. roadside drainage ditches, drainage systems, and outfalls;

II. Impacts to Waters of the State

16. Temporary Impacts. The SMP and RMP activities in the Manuals will result in temporary impacts to waters of the State. Each Discharger is expected to initiate at least one, but may not initiate all, of the following activities that will temporarily impact waters of the State:

- a. Vegetation Management: Temporary impacts requiring mitigation can result from the following vegetation management activities: (1) removal of live trees greater than six

inches in diameter at breast height (dbh), and (2) trimming or removal of instream and riparian vegetation.

- b. *Sediment Removal*: Sediment removal also results in temporary impacts, for example when the sediment supports wetland vegetation, when the sediment/gravel removed provides habitat for benthic or aquatic species, including aquatic invertebrates, or when there are discharges such as sediment or turbidity associated with the removal.
- c. *Bank Stabilization or Slip-Out Repairs*: Temporary impacts to creek banks and beds may occur during repair or stabilization of banks by disturbing riparian vegetation or altering riparian habitat.
- d. *In-Kind Culvert Repair and Replacement*: repairing and replacing culverts in-kind (i.e., with the same culvert dimensions) may temporarily impact waters of the State when the culvert is repair or replaced.

17. Permanent Impacts: The RMP activities in the Contra Costa County Flood Control District's and San Mateo County's Manuals may result in permanent impacts to waters of the State. The activities that may permanently impact waters of the State include culvert repair or replacement projects and bank stabilization projects. The Napa County Flood Control District's authorized stream maintenance activities will only result in temporary impacts.

III. Mitigation

18. Beneficial Uses. Impacts to beneficial uses from SMP and RMP activities that cannot be avoided entirely through pre-maintenance planning will be minimized through implementation of the mitigation measures and Best Management Practices (BMPs) described in the SMP and RMP Manuals.

19. Temporal Loss. Each Manual describes mitigation that will be implemented to restore temporarily impacted locations and compensate for temporal losses in function associated with the temporary impacts.

- a. *Napa County Flood Control District*: Mitigation includes revegetation at bank stabilization sites, riparian planting, invasive plant removal, enhancing or developing in-stream habitat complexity, and gravel augmentation;
- b. *San Mateo County*: Mitigation includes revegetation and bioengineering at bank stabilization sites, riparian planting, invasive plant removal, and additional compensatory mitigation acreage in mitigation projects implemented for permanent loss;
- c. *Contra Costa County Flood Control District*: Mitigation includes invasive plant removal, native riparian planting projects, and planning and implementation of measures to optimize fish habitat in the program watersheds. Mitigation may include partnering with local watershed groups to implement invasive plant removal, native riparian planting projects and proactive measures using soil bioengineering to address bank instability throughout the local watershed areas.

20. Temporary Loss. Mitigation for ground-disturbing and other activities resulting in temporary impacts to waters of the State must meet the same criteria for all Dischargers. Ground disturbance and other activities generally refer to those that will result in temporary impacts to waters of the State, as listed in Finding 16, and the mitigation ratios defined herein account for the temporal loss associated with those impacts. Each Discharger's SMP or RMP Manual defines ground-disturbing and other activities. The mitigation must be: (1) of the same type; (2) located where it is most likely to successfully replace lost area, functions, and beneficial uses; and (3) implemented in advance of, or concurrently with, project impacts. This mitigation must achieve, in general order of preference: the restoration, creation, enhancement, or preservation of stream and wetland systems. In addition, the minimum amount of mitigation will be provided at a 1.1:1 mitigation ratio based on the extent of impacts in acres and linear feet and the duration of temporal loss. The minimum 1.1:1 mitigation ratio includes 1:1 for restoration of the temporarily impacted project area plus 0.1:1 to compensate for temporal loss in functions associated with the temporary impacts. The additional 0.1:1 can also be achieved if the temporarily impacted project area is restored to better than pre-project conditions, resulting in the long-term improvement of functions. This minimum mitigation ratio is specific to activities that will temporarily impact waters of the State, though some temporary impacts may not require mitigation. The final mitigation amount required in any given year must be commensurate with the impacts and will be determined in coordination with Water Board staff when each Discharger's ANR is reviewed (see Findings 33 and 34 and Provision D.44).

21. Permanent Loss. The RMP Manuals describe general mitigation approaches to compensate for permanent losses in functions, values, and acreage of waters of the State due to RMP activities. Mitigation provided for permanent impacts to waters of the State will be consistent with already-established compensatory mitigation practices, including the mitigation project's proximity to the impact location (e.g., on-site, off-site), whether the mitigation is in-kind or out-of-kind, and the habitat that will be permanently impacted. San Mateo County and the Contra Costa County Flood Control District will develop an annual mitigation plan for maintenance activities that require compensatory mitigation. Annual mitigation plans will be included in and submitted with the ANR (see Finding 33).

22. Trees. Trees that are removed will be mitigated at ratios prescribed in each Discharger's respective Manual and pre-construction annual notification (see Findings 33 and 34). Mitigation and tree planting activities will be included in the Annual Post-Maintenance Report submitted annually to the Water Board.

IV. Avoidance and Minimization Measures

23. Minimize Impacts to Beneficial Uses. The SMP and RMPs have been designed to minimize impacts to beneficial uses. The Manuals propose activities that are expected to result in long-term beneficial effects on riparian and aquatic habitat for a suite of fish and wildlife species by (1) reducing the amount of sediment delivered to maintained channels; (2) reducing maintenance over time; and (3) enhancing stream channels and riparian corridors.

24. Planning Guidelines. The Manuals include planning guidelines that will be used in the development of each year's maintenance work plan to determine how, where, and when

routine maintenance activities should occur. These guidelines consider factors such as the natural function of the system, local physical constraints, sensitive habitats, and watershed processes to (1) determine when action is needed, (2) identify maintenance activities needed, and (3) minimize the ongoing need for maintenance activities.

25. Stream Assessments. Stream assessments² will be conducted on a reach-by-reach basis and describe hydrology, geomorphology, and biological resources. Assessments will be updated periodically to reflect changes and progress in achieving the goals of the SMP or RMP. These stream characterizations will be developed to provide enough detail and photographic documentation to support the annual review and approval of maintenance projects.

26. Vegetation Management. Vegetation management conducted for public safety and fire fuel load reduction will be based, in part, on local fire code requirements and will balance public safety, homeless encampment issues, and fire fuel load reduction responsibilities with the protection and restoration of beneficial uses. These activities include:

- a. *Napa County Flood Control District*: pruning the lower limbs of trees up to a height of about five feet and mowing along access roads;
- b. *San Mateo County*: mowing, trimming, and pruning vegetation along county roads to maintain appropriate line-of-sight clearance, usually 4 feet at an intersection, a 14-foot height clearance for vehicles, and a 7-foot height clearance for pedestrians. San Mateo County's vegetation management also includes tree removal where the tree is creating a public safety hazard, and grazing to control herbaceous vegetation; and
- c. *Contra Costa County Flood Control District*: mowing, trimming and pruning, tree removal, and grazing. Pruning of vegetation along access roads will occur to maintain clearance and site distance for vehicles.

27. Non-Ground-Disturbing Work. Non-ground-disturbing work may be performed in the channel zone, but not within the low-flow channel, throughout the year. Non-ground-disturbing work includes hand removal, and in limited cases use of mechanized equipment operated from the top of the bank as described in the Contra Costa County Flood Control District Manual, of debris and non-native invasive plant species, planting riparian vegetation, maintaining access roads for drainage and accessibility, and conducting minor repairs of culverts, provided there is no discharge of waste that may adversely impact water quality or beneficial uses.

28. Ground-Disturbing Work. Ground-disturbing maintenance activities occurring below top-of-bank will be completed during the low-flow or dry season specific to each Discharger's SMP or RMP (i.e., June 15 - October 31 for Napa County Flood Control and Contra Costa County Flood Control; and June 15 to October 15 for San Mateo County), unless an exception is granted. Ground-disturbing activities vary amongst the Dischargers, but generally include downed tree management, mechanized vegetation management, bank

² San Mateo County's in-stream maintenance work is mostly small and localized (e.g., culvert repair, limited sediment/vegetation removal at road crossings). Therefore, San Mateo County typically will conduct more-localized assessments of sites, facilities, and the adjacent stream reaches.

stabilization, and sediment removal. During dry years, when channels remain dry earlier or later than the defined dry season for each Discharger, an extension may be granted to conduct ground-disturbing maintenance activities outside that Discharger's work window. Exceptions may be made on a project-by-project basis with advance approval by the Executive Officer and federal and State regulatory agencies as appropriate.

29. Sediment Sampling and Analysis. The Manuals' Sediment Sampling and Analysis Guidelines describe protocols for sampling, analysis, characterization, reuse and disposal of sediment removed during maintenance activities. Sediment reuse or disposal options are based on the chemical quality of the sediment removed.

30. Contaminated Soils. Any observations of contamination, such as chemical odors, oily sheens, or irregularly-colored sediment must be immediately reported to the Water Board. Consultation with Water Board staff, and other regulatory agencies as appropriate, will determine additional follow-up actions including investigating potential sources of contamination, corrective actions, and appropriate disposal of contaminated sediment.

31. Activities Not Covered. The following activities are not included in the SMP and therefore are not covered in this amended Order: capital improvement projects, projects that would alter the designed flood conveyance capacity of a channel, sediment removal or dredging projects greater than the length specified in Provision D.19, and emergency activities and procedures. A situation is considered an "emergency" if it is a sudden, unexpected occurrence involving a clear and imminent danger that demands immediate action to prevent or mitigate loss of or damage to life, health, property, or essential public services (Pub. Res. Code §21060.3).

V. Channel Assessments

32. Channel Assessments. Conducting channel assessments to gain an improved understanding of channel conditions, including causal factors for maintenance, flow capacity objectives, and vegetation maintenance objectives of routinely-maintained channels is fundamental to the Programs' objectives of avoiding and minimizing environmental impacts while conducting maintenance.

- a. *Napa County Flood Control District:* The District will develop a channel assessment approach that will identify one stream reach per year where routine maintenance activities will be assessed for the following conditions: (1) typical maintenance needs; (2) geomorphic and hydrologic conditions; (3) vegetation communities; (4) habitat functions and values; (5) existing constraints and limiting factors to achieving improved habitat functioning; (6) opportunities for potential habitat enhancement or restoration; and (7) longer-term maintenance goals. These channel assessments will be used to identify restorative maintenance activities that will be integrated into routine maintenance projects to enhance physical and biological processes over time (Manuals Chapter 14).
- b. *San Mateo County:* The County will update its facility characterization sheets, culvert inventory, and assessment program. San Mateo County will also evaluate maintenance needs at the sites identified in its Manual (San Mateo County RMP Manual App. B)

based on quantitative capacity evaluations, including, but not limited to, factors such as design and current channel geometries, historical flow records, observed flow records, and historical and current maintenance actions and needs. These factors will be further defined and used over time to plan for and implement maintenance actions necessary to reduce flooding risk and improve habitat conditions in both the short and long term.

- c. *Contra Costa County Flood Control District*: The District will update and expand the Resource Characterizations at high priority maintenance sites to provide the quantitative capacity evaluations needed to document and support maintenance goals. The capacity evaluations will consider channel geometry conditions, the observed flow record, history of past flooding (as available), history of past maintenance activities, and other factors. The methodology used to evaluate channel capacity will be updated and refined each year to improve the quantitative evaluations over time. The updated Resource Characterizations will include existing constraints and limiting factors to achieving improved habitat functions, opportunities for potential habitat enhancement or restoration, and longer-term maintenance goals. These Resource Characterizations will be used to identify and support maintenance activities each year and to collectively optimize physical and biological processes in the various program watersheds over time.

VI. Monitoring and Reporting

- 33. Annual Notification Report.** This amended Order requires submittal of an Annual Notification Report (ANR), acceptable to the Executive Officer, by June 1 of each year. The ANR will describe the maintenance activities to be conducted during the upcoming maintenance season and propose mitigation to compensate for unavoidable impacts as described in the SMP and RMP Manuals. The ANR will include the following information: (1) the location of proposed maintenance activities; (2) the stream(s) and structures affected; (3) an assessment of potential project impacts; (4) the expected total cubic yards of material to be removed; (5) if dewatering will be required; and (6) proposed mitigation, if required.
- 34. Mitigation Plan.** This amended Order requires development and submittal of Mitigation Plans, acceptable to the Executive Officer, by June 1 of each year for San Mateo County and the Contra Costa County Flood Control District. This Finding does not apply to Napa County Flood Control District as its mitigation for temporal impacts is encompassed in their SMP and included in its ANR. The Mitigation Plans will include the information specified in the RMP Manuals, including, but not limited to: (1) a description of on-site and off-site habitat restoration or enhancement activities, (2) the entity implementing the mitigation projects, (3) how the mitigation projects will be consistent with already-established compensatory mitigation practices for Certifications; (4) a schedule for the mitigation projects' implementation; and (5) a mitigation monitoring plan specific to the proposed mitigation projects.
- 35. Annual Post-Maintenance Report.** This amended Order requires submittal of an Annual Post-Maintenance Report, acceptable to the Executive Officer, by January 31 of the year following the completion of maintenance activities. The Annual Post-Maintenance Report will describe the stream maintenance activities that were conducted, any mitigation

implemented, monitoring results, lessons learned, and recommendations to update the BMPs identified in the Manuals, as needed.

36. Lessons Learned. This amended Order requires that, after each maintenance season, the Dischargers each meet with Water Board staff to discuss the performance of the SMP, review lessons learned from the prior maintenance season, and determine the need to improve any stream maintenance techniques and BMPs. The Dischargers will implement all stream maintenance techniques and BMPs deemed necessary under this SMP or RMP performance review and update their Manuals accordingly.

37. Other Monitoring Reports. This amended Order also requires submittal of monitoring reports as required by:

- a. *Napa County Flood Control District*: (1) the *Post Construction Contingency Plan* for the Petroleum Residual Contamination Area; (2) the *Operations, Maintenance, Repair, Replacement and Rehabilitation Manual for the Napa River/Napa Creek Flood Protection Project*; (3) the *Monitoring Plan for the Rutherford Reach Restoration of the Napa River*; and (4) the *Napa River Restoration: Oakville to Oak Knoll Project Monitoring Plan*.

VII. Regulatory Framework

38. Waste Discharge Requirements (WDRs). Pursuant to Water Code section 13263 and California Code of Regulations (CCR) Title 23, sections 3857 and 3859, the Water Board is issuing WDRs for discharges associated with routine stream maintenance activities, including sediment management, vegetation management, bank stabilization, and other maintenance activities in streams within the Dischargers' maintenance jurisdiction. In accordance with CWC sections 13263(a) and 13241, the Water Board, after considering this matter at a public hearing, has prescribed requirements as to the nature of the proposed discharge. These requirements implement the Water Board's relevant water quality control plans and policies and take into consideration the beneficial uses to be protected, the water quality objectives reasonably required for that purpose, other waste discharges, and the need to prevent nuisance.

39. Water Quality Certification (Certification). Pursuant to CWA section 401 (33 USC § 1341), the Water Board is issuing a Certification imposing state conditions on discharges of dredge or fill material that occur during routine stream maintenance activities in waters of the United States. The CWA (33 USC §§ 1251-1387) was enacted "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters" (33 USC § 1251(a)). CWA Section 401 requires every applicant for a federal license or permit that may result in a discharge into navigable waters to provide the licensing or permitting federal agency with certification that the project will be in compliance with specified provisions of the CWA, including water quality standards and implementation plans promulgated pursuant to CWA section 303 (33 USC § 1313). CWA section 401 directs the agency responsible for certification to prescribe effluent limitations and other limitations necessary to ensure compliance with the CWA and with any other appropriate requirement of state law. CWA

section 401 further provides that state certification conditions shall become conditions of any federal license or permit for the project.

40. Basin Plan. The Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) is the Water Board's master water quality control planning document. It designates beneficial uses and water quality objectives for waters of the State, including surface waters and groundwater. It also includes implementation plans to achieve water quality objectives. The beneficial uses of any water body identified in the Basin Plan generally apply to that water body's tributaries. The Basin Plan was duly adopted by the Regional Water Board and approved by the State Water Resources Control Board (State Water Board), Office of Administrative Law, and U.S. Environmental Protection Agency, where required.

The Basin Plan lists the following existing and potential beneficial uses for surface waters and groundwater:

a. Napa County Flood Control District:

- i. Within the Napa River and Suisun Creek watersheds: agricultural supply; cold freshwater habitat; municipal and domestic supply; commercial and sport fishing; estuarine habitat; fish migration; fish spawning; freshwater replenishment; navigation; non-contact water recreation; water contact recreation; preservation of rare and endangered species; warm freshwater habitat; and wildlife habitat. The Discharger routinely conducts maintenance activities within the Napa River and Suisun Creek watersheds which may temporarily impact the beneficial uses identified above;
- ii. The Napa-Sonoma Valley and Napa-Sonoma Volcanic Highlands groundwater basins are located in the Napa River watershed area and support the following beneficial uses: agricultural water supply; industrial service water supply; industrial process water supply; and municipal and domestic water supply.

b. San Mateo County:

- i. Within Visitacion Valley—Frontal San Francisco Bay Estuaries, Colma Creek—Frontal San Francisco Bay Estuaries, San Mateo Creek—Frontal San Francisco Bay Estuaries, and San Francisco Bay Estuaries: cold freshwater habitat; commercial and sport fishing; estuarine habitat; fish migration; fish spawning; freshwater replenishment; industrial service supply; municipal and domestic supply; navigation; non-contact water recreation; preservation of rare and endangered species; shellfish harvesting; warm freshwater habitat; water contact recreation; and wildlife habitat;
- ii. Cordilleras Creek, San Mateo Creek, San Francisquito Creek, and San Francisco Bay Estuaries: agricultural supply; cold freshwater habitat; estuarine habitat; fish migration; fish spawning; non-contact water recreation; preservation of rare and endangered species; warm freshwater habitat; water contact recreation; and wildlife habitat;
- iii. Within San Pedro Creek and Denniston Creek: agricultural supply; cold freshwater habitat; commercial and sport fishing; fish migration; fish spawning; industrial

- service supply; marine habitat; municipal and domestic supply; navigation; non-contact water recreation; preservation of rare and endangered species; shellfish harvesting; warm freshwater habitat; water contact recreation; and wildlife habitat;
- iv. Within Arroyo Leon, Purisima Creek, San Gregorio Creek, La Honda Creek: agricultural supply; cold freshwater habitat; fish spawning; municipal and domestic supply; non-contact water recreation; preservation of rare and endangered species; warm freshwater habitat; water contact recreation; and wildlife habitat; and
 - v. Within Upper Pescadero Creek, Power Pescadero Creek, and Butano Creek watersheds, as well as the Gazos Creek watershed, which is under the jurisdiction of the Central Coast Regional Water Board: agricultural supply; cold freshwater habitat; commercial and sport fishing; commercial and sport fishing; fish spawning; freshwater replenishment; municipal and domestic supply; non-contact water recreation; preservation of rare and endangered species; warm freshwater habitat; water contact recreation; and wildlife habitat.
- c. Contra Costa County Flood Control District:
- i. Within the Walnut Creek and Pinole Creek watersheds: cold freshwater habitat; fish migration; preservation of rare and endangered species; fish spawning; warm freshwater habitat; wildlife habitat; water contact recreation; and non-contact water recreation;
 - ii. Within the Wildcat Creek and San Pablo Creek watersheds: freshwater replenishment; in addition to all of the beneficial uses included for Walnut Creek;
 - iii. Within the Rheem Creek and Garrity Creek watersheds: warm freshwater habitat; wildlife habitat; water contact recreation; and non-contact water recreation;
 - iv. Within the Rodeo Creek watershed: cold freshwater habitat; preservation of rare and endangered species; wildlife habitat; water contact recreation; and non-contact water recreation;
 - v. Within the Willow Creek watershed, which is tributary to the Suisun Bay: industrial service water supply; industrial process water supply; commercial and sport fishing; estuarine habitat; fish migration; preservation of rare and endangered species; fish spawning; wildlife habitat; water contact recreation; non-contact water recreation; and navigation; and
 - vi. The Pittsburg Plain, Clayton Valley, Ygnacio Valley, Santa Clara Valley – East Bay Plain groundwater basins are located within the Contra Costa County RMP watershed areas and support the following beneficial uses: agricultural water supply; industrial service water supply; industrial process water supply; and municipal and domestic water supply.

41. TMDLs. The Basin Plan also identifies water bodies that are impaired on the CWA section 303(d) list (303(d) list) and lists the sources of impairment. The Manual discusses how the SMP supports the goals and objectives of the Total Maximum Daily Loads (TMDLs) that have been developed for impaired water bodies. This Order authorizes routine maintenance activities on the following water bodies listed on the 303(d) list as impaired, or on waters tributary to the listed water bodies:

Napa County Flood Control District

- i. The Napa River is listed as impaired by nutrients, pathogens, and sedimentation/siltation. The Water Board adopted a Resolution on February 12, 2014, to delist the non-tidal portion of the Napa River for nutrients (Resolution No. R2-2014-0006);
- ii. The Napa River drains into San Pablo Bay, which is listed as impaired by chlordane, dichloro-diphenyl-trichloroethane (DDT), dieldrin, dioxin compounds, furan compounds, invasive species, mercury, polychlorinated biphenyls (PCBs), and selenium;
- iii. Suisun Creek is listed as impaired by low dissolved oxygen and temperature;
- iv. Suisun Creek drains into Suisun Marsh and Suisun Bay. Suisun Marsh is listed as impaired by mercury, nutrients, organic enrichment/low dissolved oxygen, and salinity. Suisun Bay is listed as impaired by chlordane, DDT, diazinon, dieldrin, dioxin compounds, furan compounds, invasive species, mercury, nickel, PCBs, polybrominated diphenyl ethers (PBDEs), and selenium.

San Mateo County:

- i. San Francisco Bay, Lower is listed as impaired by chlordane, DDT, dieldrin, Dioxin compounds, furan compounds, invasive species, mercury, PCBs, and trash;
- v. The Colma Creek watershed is listed as impaired by trash;
- vi. San Mateo Creek is listed as impaired by diazinon and trash;
- vii. San Mateo Creek, lower is listed as impaired by sediment toxicity;
- viii. Laurel Creek is listed as impaired by diazinon;
- ix. San Francisquito Creek is listed as impaired by diazinon, sedimentation/siltation, and trash;
- x. Marina Lagoon, Pacific Ocean at Pacifica State/Linda Mar Beach, San Pedro Creek, Pacific Ocean at Fitzgerald Marine Reserve, San Vicente Creek, Pacific Ocean at Pillar Point Beach, Pacific Ocean at Venice Beach, and Pomponio Creek are listed as impaired by fecal indicator bacteria;
- xi. Pilarcitos Lake and Pacific Ocean at Pillar Point are listed as impaired by mercury;
- xii. San Gregorio Creek is listed as impaired by indicator bacteria and sedimentation/siltation; and
- xiii. The Pescadero-Butano and San Gregorio Creek watersheds are listed as impaired for sediment. The State Water Board approved the Pescadero and Butano Creeks Sediment TMDL Basin Plan amendment on December 11, 2018.

Contra Costa County Flood Control District:

- xiv. Pinole, Wildcat, and Walnut creeks are listed as impaired by diazinon. San Pablo Creek is listed as impaired by diazinon and trash. Grayson Creek, which is tributary to Walnut Creek, is also listed as impaired by trash;

- xv. Pinole, Wildcat, and San Pablo creeks drain into San Pablo Bay, which is listed as impaired by chlordane, dichloro-diphenyl-trichloroethane (DDT), dieldrin, dioxin compounds, furan compounds, invasive species, mercury, polychlorinated biphenyls (PCBs), and selenium;
- xvi. Walnut Creek drains into the Suisun Bay, which is listed as impaired by chlordane, dichloro-diphenyl-trichloroethane (DDT), dieldrin, dioxin compounds, furan compounds, invasive species, mercury, polychlorinated biphenyls (PCBs), and selenium.

42. Antidegradation Policy. State Water Board Resolution No. 68-16, “Statement of Policy with Respect to Maintaining High Quality of Waters in California” (Antidegradation Policy), which incorporates the federal antidegradation policy where it applies, states that discharges to existing high quality waters will be required to meet WDRs that will result in the best practicable treatment or control of the discharge necessary to assure that (a) a condition of pollution or nuisance will not occur, and (b) the highest water quality consistent with maximum benefit to the people of the State will be maintained. This amended Order is consistent with Resolution No. 68-16 because implementation of the proposed activities in accordance with the Order’s requirements and the Manuals should not lead to degradation of water quality or beneficial uses. To the contrary, the Dischargers’ adherence to the prohibitions and provisions in this amended Order, and the BMPs and mitigation requirements in their Manuals, is expected to maintain or improve water quality and riparian and in-stream habitat. For instance, BMPs requiring most stream maintenance activities to occur when there is no flow in the channels, prohibiting the discharge of sediment or decant water to channels, and requiring proper storage and handling of sediment and vegetation debris, are intended to minimize or eliminate discharges altogether.

43. No Net Loss Policy. The California Wetlands Conservation Policy (“No Net Loss Policy;” Executive Order W-59-93) was adopted to “ensure no overall net loss and achieve a long-term net gain in the quantity, quality, and permanence of wetlands acreage and values in California in a manner that fosters creativity, stewardship, and respect for private property.” Implementation of the SMP and RMP is consistent with the No Net Loss Policy because it is anticipated to preserve existing and potential beneficial uses of waters of the State and may, over time, restore or enhance beneficial uses for some stream reaches. The requirement that activities causing both temporary and permanent impacts be mitigated will lead to an overall improvement in stream and wetland habitat throughout the watersheds to which these WDRs apply.

44. California Environmental Quality Act. The California Environmental Quality Act (CEQA) requires all discretionary projects approved by public agencies to be in full compliance with CEQA and requires a lead agency to prepare an appropriate environmental document for such projects.

- a. *Napa County Flood Control District:* The Napa County Flood Control District, as lead agency, adopted an Initial Study/Mitigated Negative Declaration (State Clearinghouse No. 2019029055) for its SMP and filed a Notice of Determination on March 22, 2019;

- b. *San Mateo County*: San Mateo County, as lead agency, adopted a Final Environmental Impact Report (FEIR) (State Clearinghouse No. 2019012009) for its RMP and filed a Notice of Determination on September 16, 2020
- c. *Contra Costa County Flood Control District*: The Contra Costa County Flood Control District, as lead agency, adopted an Initial Study/Mitigated Negative Declaration (ISMND) (State Clearinghouse No. 2020060286) for the Project and filed a Notice of Determination on November 19, 2020

45. Responsible Agency. The Water Board, as a Responsible Agency under CEQA, has reviewed the project CEQA documents and finds that the Programs' significant environmental effects that are within the Water Board's purview and jurisdiction have been identified and will be mitigated to less-than-significant levels. Specifically, significant impacts pertaining to wetland and aquatic habitat and water quality will be mitigated to less-than-significant levels through implementation of mitigation measures identified in the CEQA documents and the mitigation identified in this amended Order and in the Manuals, all of which are required to be implemented and reported on by this amended Order.

46. Human Right to Water. It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. (Water Code Section 106.3.) Many of the water bodies where this amended Order applies have the beneficial use designation of MUN, meaning that water can be used for drinking. This amended Order promotes the human right to water by requiring that stream maintenance activities minimize or eliminate adverse water quality impacts to the water body in which they occur, thereby protecting that water body's beneficial uses, including MUN. Over time, implementation of this amended Order and of the Manuals is expected to lead to improvements in water quality, which will help advance the human right to water.

47. Cleanup and Abatement State Water Board Resolution No. 92-49, "Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304," applies to the activities covered by this amended Order. Resolution No. 92-49 directs the Regional Water Boards to set cleanup levels equal to background water quality or the best water quality which is reasonable, if background levels cannot be restored. In this instance, background levels cannot be restored, based on the nature of the contamination, the limitations of available cleanup methods, and the Water Board's experience with many other similarly-impacted sites. This amended Order requires monitoring provisions designed to ensure that residual contamination will not unreasonably affect present and anticipated beneficial uses of such water and will not result in exceedance of applicable water quality objectives. This amended Order and its requirements are consistent with the provisions of Resolution No. 92-49, as amended.

48. Nonpoint Source Enforcement Policy. State Water Board's 2004 Policy for the Implementation and Enforcement of the Nonpoint Source Pollution Control Program (Nonpoint Source Enforcement Policy) requires that all nonpoint source pollution, including discharges from grazing lands, be regulated through WDRs, waivers of WDRs, or discharge prohibitions. This amended Order is consistent with the Nonpoint Source Enforcement Policy

because implementation of BMPs described in the Manuals is expected to help to control nonpoint source pollution from erosion and agricultural runoff.

49. Public Notice. The Water Board has notified the Discharger and interested parties of its intent to issue WDRs and Certification for the activities proposed in the SMP and RMP. Pursuant to 23 CCR section 3858, each Discharger's application was posted as follows:

- a. Napa County Flood Control District: The Water Board provided public notice of the Napa County Flood Control and Water Conservations District's application on May 15, 2019, and posted information describing the project on the Water Board's website;
- b. San Mateo County: The Water Board provided public notice of the San Mateo County's application on October 21, 2020, and posted information describing the project on the Water Board's website; and,
- c. Contra Costa County Flood Control District: The Water Board provided public notice of the Contra Costa County's application on October 21, 2020, and posted information describing the project on the Water Board's website.

50. Public Hearing. The Water Board, in a public meeting, heard and considered all comments pertaining to this amended Order.

IT IS HEREBY ORDERED that Order No. 2019-0023 is amended upon the effective date of this Order, and, in order to meet the provisions of Water Code Division 7 (commencing with § 13000) and regulations and guidelines adopted thereunder, the Dischargers, their agents, successors, and assigns shall comply with the requirements in this amended Order. The Water Board certifies that the Stream Maintenance Program described herein complies with CWA sections 301, 302, 303, 306, 307, and 401, and with applicable provisions of State law, provided that the Discharger complies with the following terms and conditions:

A. Discharge Prohibitions

1. The direct or indirect discharge of wastes, as defined in Water Code section 13050(d), within or outside of the active project site, to surface waters or surface water drainage courses is prohibited, except as authorized in this amended Order.
2. The discharge shall not cause degradation of any water supply.
3. All SMP activities that could result in the runoff of pesticides (which category includes, but is not limited to, pesticides, herbicides, insecticides, rodenticides, and fungicides), that are not registered for aquatic use into waters of the State are prohibited.
4. SMP activities that could result in long-term adverse impacts, such as destabilization of stream banks or a deleterious increase in sediment input into waters of the State, are prohibited.
5. Excavated sediment shall remain within designated disposal areas unless it is determined appropriate for beneficial reuse. Designated disposal areas are: (1) any off-site, authorized temporary, or permanent location maintained in compliance with federal and State regulations, (2) any on-site, authorized temporary, or permanent location, provided

material shall be isolated and contained to prevent impacts to waters of the State and their beneficial uses, or (3) a permitted landfill.

6. The discharge of sediment and runoff or decant water from excavated materials disposed of at any temporary or permanent disposal, to waters of the State, is prohibited.
7. Maintenance activities subject to these requirements shall not cause a condition of pollution or nuisance as defined in Water Code section 13050.
8. Groundwater beneficial uses shall not be degraded as a result of activities conducted under this amended Order.
9. No unauthorized construction-related materials or wastes shall be allowed to enter into or be placed where they may be washed by rainfall or runoff into waters of the State. When construction is completed, any excess material shall be removed from the work area and any areas adjacent to the work area where such material may be discharged to waters of the State.

B. Discharge Specifications

1. Appropriate soil erosion control measures shall be implemented and maintained to prevent the discharge of sediment to surface waters, including surface water drainage courses.
2. Excavated material shall be fully contained to prevent any wind transport, surface runoff or erosion into waters of the State.
3. In accordance with Water Code section 13260, the Dischargers shall file with the Water Board a report of any material changes in the character, location, or quantity of this waste discharge that is beyond the scope of this amended Order. Any proposed material changes in the discharge or SMP requires approval by the Water Board after a hearing under Water Code section 13263.
4. The Dischargers shall immediately, and in all cases within 24 hours, notify the Water Board staff by telephone or e-mail of an adverse condition that results from a discharge. An adverse condition includes, but is not limited to, a violation or threatened violation of the conditions of this amended Order, spill of petroleum products or toxic chemicals, or damage to control facilities that could affect compliance. A written notification of the adverse condition shall be submitted to the Water Board within five days of its occurrence. The written notification shall identify the adverse condition, describe the actions necessary to remedy the condition, and specify a timetable, subject to approval by the Executive Officer, for any necessary remedial actions.

C. Receiving Water Limitations

1. SMP and RMP activities shall not cause the following conditions to exist in any waters of the State:
 - a. Waters shall not contain floating materials, including solids, liquids, foams, and scum, in concentrations that cause nuisance or adversely affect beneficial uses.

- b. Waters shall not contain oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water, that cause nuisance, or that otherwise adversely affect beneficial uses.
 - c. Waters shall not contain biostimulatory substances in concentrations that promote aquatic growth to the extent that such growth cause nuisance or adversely affect beneficial uses.
 - d. Waters shall be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life.
 - e. The natural receiving water temperature of inland surface waters shall not be altered unless it can be demonstrated to the satisfaction of the Executive Officer that such alteration in temperature does not adversely affect beneficial uses.
 - f. The temperature of any cold or warm freshwater habitat shall not be increased by more than 5°F (2.8°C) above the natural receiving water temperature.
2. SMP and RMP activities shall not cause the following limits to be exceeded in waters of the State at any point:
- a. Dissolved Oxygen: 5.0 (WARM) or 7.0 (COLD) mg/l minimum.³ When natural factors cause lesser concentrations, then discharges under this amended Order shall not cause further reduction in the concentration of dissolved oxygen.
 - b. Dissolved Sulfide: All water shall be free from dissolved sulfide concentrations above natural background levels. Concentrations of only a few hundredths of a milligram per liter can cause a noticeable odor or be toxic to aquatic life. Violation of the sulfide objective will reflect violation of dissolved oxygen objectives as sulfides cannot exist to a significant degree in an oxygenated environment.
 - c. pH: A variation of natural ambient pH by more than 0.5 pH units.
 - d. Toxicity: All waters shall be maintained free of toxic substances in concentrations that are lethal to or that produce other detrimental responses in aquatic organisms.
 - e. Un-ionized Ammonia: 0.025 mg/L as N, annual median; and 0.16 mg/L as N, maximum.
 - f. Salinity: Maintenance activities shall not increase total dissolved solids or salinity to a degree that the increase adversely affects beneficial uses.
 - g. Turbidity: Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses. Increases from normal background light penetration or turbidity relatable to waste

³ Resolution No. R2-2018-0015 adopted site-specific objectives for dissolved oxygen in Suisun Marsh.

discharge shall not be greater than 10 percent in areas where natural turbidity is greater than 50 NTU.

3. SMP activities shall not cause a violation of any particular water quality standard for receiving waters adopted by the Water Board or the State Water Board as required by the CWA and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to CWA section 303, or amendments thereto, the Water Board may revise and modify this amended Order in accordance with more stringent standards.

D. Provisions

1. The Dischargers shall implement all mitigation measures identified in the Manual. In addition, the Dischargers shall comply with (1) the Monitoring and Reporting Program attached to this amended Order, and (2) their respective Manuals and corresponding appendices. Any proposed changes to the Manuals or appendices shall be submitted via the ANR or the Annual Post-Maintenance Report for review and approval. All changes to the Manuals or appendices must comply with all terms and conditions of this amended Order and be approved in writing by the Executive Officer.

Vegetation Management

2. Targeted and localized vegetation removal areas exceeding the following contiguous feet of channel length for each Discharger will require Project Specific Notification:
 - a. Napa County Flood Control District: 100 contiguous feet of channel length;
 - b. San Mateo County: 150 linear feet of channel length for maintenance at crossings or other features or to provide access to maintenance sites; and
 - c. Contra Costa County Flood Control District: Up to 4,200 linear feet of channel length for mowing grass and trimming cattails along engineered flood control channels.
3. Vegetation management and replanting shall be conducted in a manner that maximizes the functions of the vegetation, including shading the stream, stabilizing channel banks, erosion and sediment control, and providing in-stream habitat while addressing public safety and land management responsibilities, including visibility, access, and fire management.
4. The Dischargers shall describe how proposed vegetation management activities meet maintenance channel objectives for that reach in the ANR. Selection and prioritization of vegetation management activities shall consider channel capacity conditions, hydraulic constrictions, channel dimensions, roughness objectives, reach-specific vegetation templates, public safety, and land management responsibilities, such as visibility, access, and fire management.

5. Vegetation management activities shall be conducted, as described in the Manuals, in a manner that ensures that the work is effective and avoids, minimizes, and compensates for potential environmental impacts.
6. Vegetation management activities shall not adversely impact the riparian zone, shade, canopy coverage, or habitat.
7. Overall impacts of vegetation management activities shall improve beneficial uses.
8. The Dischargers shall follow the Bay Friendly Landscape Guidelines, or its equivalent, to minimize the use of herbicides to the maximum extent practicable.
9. The Dischargers shall maintain coverage and comply with the State Water Board's Statewide General National Pollutant Discharge Elimination System (NPDES) Permit for Residual Aquatic Pesticides Discharges to Waters of the United States from Algae and Aquatic Weed Control Applications (General Permit No. CAG990005; Water Quality Order No. 2013-0002-DWQ, as amended, and as may be reissued).

Downed Tree Management

10. The Dischargers shall follow the downed tree management guidelines described in their Manuals.
11. Downed tree management shall be conducted in a manner that maximizes the environmental benefit of the tree to stabilize stream banks and provide in-stream habitat.
12. Downed tree management activities shall not adversely impact riparian zone habitat. Overall downed tree management activities shall be conducted such that they improve water quality and beneficial uses.
13. The Dischargers shall follow the guidelines in the Manuals when removing large woody debris for maintenance purposes. If a channel functions, or potentially could function, as habitat for salmonids or other threatened and endangered species, then large woody debris cannot be removed, unless described in a Discharger's Manual and authorized by the federal agencies overseeing special-status species protection. If the large woody debris poses a credible risk of blocking a culvert, bridge, or otherwise obstructing flow, causing structural damage, or destabilizing a channel, it may be relocated, repositioned, or cabled to a stream bank in a manner that protects existing habitat.
14. For channels designated by the SMP or RMP not to have existing or potential salmonid or other threatened and endangered species habitat, large woody debris may be removed or relocated to a more suitable location if the large woody debris is posing a significant and imminent threat to infrastructure or structures on adjacent properties.

Erosion Control and Bank Stabilization

15. The Dischargers shall follow the erosion control and bank stabilization guidelines described in the Manual. The use of soil bioengineering systems as presented in the

Natural Resource Conservation Service (NRCS) manual⁴ shall be used as the first and primary strategy for stream bank stabilization projects. Rock and rock riprap installation shall be limited to only those areas experiencing shear stresses that exceed the performance of vegetation-based soil bioengineering systems, as designated in the NRCS and U.S. Army Corps of Engineers shear stress tables.⁵

16. Any changes to bank repair methods shall be proposed in the ANR and be approved in writing by the Executive Officer before implementation. Proposed changes to the bank repair methods must demonstrate that the change does not adversely affect beneficial uses and will result in no net loss and a long-term net gain in the extent, functions, and beneficial uses of waters of the State.
17. Where bank stabilization activities may result in modifications to stream cross-sections and/or profiles, the banks shall be re-contoured to match the adjacent bank slope.

Sediment and Debris Removal

18. In its ANR, each Discharger shall describe how proposed sediment management activities meet maintenance channel objectives for that reach. Selection and prioritization of sediment management activities shall consider: (1) channel capacity conditions; (2) hydraulic constrictions; (3) sediment, channel dimension, and roughness objectives; (4) how the activity will address short-term flood management needs; and (5) whether proposed maintenance activities will result in longer-term habitat and water quality benefits consistent with the maintenance strategy for that reach.
19. Targeted and localized sediment removal shall occur in limited areas that do not exceed the following limits set for each Discharger:
 - a. *Napa County Flood Control District*: 500 contiguous linear feet of channel. Sediment removal in areas greater than 500 linear feet will require Project Specific Notification;
 - b. *San Mateo County*:
 - i. Unmodified Natural Channels and Modified Channels: (1) 500 contiguous linear feet and 3,750 square feet of channel;
 - ii. Culverts and Crossings: 150 contiguous linear feet and 1,125 square feet of channel;
 - iii. A Total, Annual Limit: 1,500 linear feet in a given year total for all channel types, and 18,750 square feet. No more than 10 sediment removal projects will occur in a given year, per NMFS guidance; and

⁴ Bentrup, G. and J.C. Hoag. 1998. The Practical Streambank Bioengineering Guide, User's Guide for Natural Streambank Stabilization Techniques in the Arid and Semi-Arid Great Basin and Intermountain West. U.S. Department of Agriculture, Natural Resources Conservation Service.

⁵ Fischenich, C. 2001. Stability Thresholds for Stream Restoration Materials. EMRRP Technical Notes Collection (ERDC TN-EMRRP-SR-29). U.S. Army Engineer Research and Development Center, U.S. Army Corps of Engineers, Vicksburg, MS.
National Resource Conservation Service (NRCS). 2007. Part 654 National Engineering Handbook Stream Restoration Design.

- c. Contra Costa County Flood Control District: total area of sediment removal, in combination with the other temporary and permanent impacts shall not exceed the area used for calculating the project fee.
- i. 100, 250, and 1,000 contiguous linear feet of channel at sites located in, as previously defined, natural channels, engineered earthen channels, and concrete channels, respectively;
 - ii. Sediment removal is limited to 1,000, 1,500, and 5,000 linear feet per stream, in natural, engineered earthen, and concrete channels, respectively. Sediment removal in areas greater than these limits will require Project Specific Notification; and
 - iii. At locations around bridges, culverts, storm drain outlets, trash racks and other trash capture devices, and water diversion inlets, the limit will not exceed 100 contiguous linear feet in natural channels and 200 contiguous linear feet in concrete channels.

For all Dischargers, individual sediment removal projects occurring in proximity to one another and resulting in cumulative impacts to a stream reach will require a project-specific notification to the Water Board.

20. In-stream depositional features (e.g., bars) shall be preserved in their location unless they must be removed to avoid imminent threat of flooding. During removal of depositional features, the Dischargers shall minimize impacts and preserve habitat functions to the extent practicable to protect beneficial uses.
21. After sediment removal, the Dischargers shall grade the channel so that the transition between the existing channel both upstream and downstream is smooth and continuous between the maintained and non-maintained areas and does not present a “wall” of sediment or other blockage that could erode or cause erosion once flows are restored.
22. Maintenance activities that may modify stream cross-sections and or profiles require Project-Specific Notification to the Water Board. The Dischargers are required to submit a grading plan that describes steps to be taken towards achieving a dynamic equilibrium channel, including project design details with a channel form (e.g., channel shape, width/depth ratio) consistent with channel dimension objectives.
23. Excavated sediment may be temporarily stockpiled prior to disposal or reuse, provided that appropriate State and federal regulations are met and BMPs are implemented to protect water quality and beneficial uses. The excavated sediment may be stockpiled onsite for up to three working days, or up to 10 working days for San Mateo County and the Contra Costa County Flood Control District,⁶ within engineered containment areas so that it can be loaded into trucks for off-site disposal. The excavated sediment may also be temporarily stockpiled at an offsite location. Runoff, sediment, or decant water from the

⁶ Sediment testing in San Mateo County and Contra Costa County is expected to take longer than three working days to complete. If sediment testing is delayed past 10 working days, the County will notify Water Board staff to request an extension.

excavated materials shall not discharge to waters of the State, nor discharge from trucks during transport.

24. Sediment removed as part of maintenance activities shall be properly characterized through laboratory analytical testing, as described in the approved Sediment Sampling and Analysis Guidelines included in the Manuals and shall be hauled offsite to an approved suitable upland disposal site, to a landfill approved to accept the sediment as characterized, or to another approved location. Vegetative debris generated by maintenance activities will either be chipped and left onsite or taken to a local compost or mulch facility.
25. Any observed contamination during maintenance activities, as evidenced by chemical odors, oily sheens, or irregularly colored sediment shall be immediately reported to the Water Board. The Dischargers shall work with Water Board staff, and other regulatory agencies as appropriate, to conduct additional follow-up actions, including investigating potential sources of contamination, corrective actions, and appropriate disposal of contaminated sediment.
26. The Dischargers shall have equipment and supplies on-site (or readily available nearby) that shall be quickly deployed to provide additional filtration if turbidity is observed.
27. All staging shall occur on adjacent access roads or previously disturbed areas. Soil and rock riprap shall be staged in areas that have been previously disturbed (e.g., service roads and turnouts). If maintenance activities affect the active channel, the work area shall be effectively isolated from stream segments containing standing or flowing water through the use of effective BMPs and restored to pre-project conditions immediately after maintenance is complete.
28. The disposal of any hazardous, designated, or non-hazardous waste as defined in 27 CCR Division 2, Subdivision 1, Chapter 2, shall be conducted in accordance with applicable State and federal regulations.
29. The Dischargers shall clean up, remove, and relocate any wastes that are discharged in violation of this amended Order.

Other Maintenance Activities

30. The Dischargers shall follow the guidelines described in their Manuals for other maintenance activities. The Napa County Flood Control District shall implement the following for its existing projects that have maintenance needs:
 - a. Maintenance activities for restoration projects within the Napa County Community Facilities District (Rutherford Reach and Oakville to Oak Knoll Reach) shall be implemented in accordance with the maintenance plans developed for each project, as described in the Napa County Manual (Appendices A and B).
 - b. Maintenance activities for the Napa River/Napa Creek Flood Protection Project shall be implemented as described in the Napa County Manual (Appendix M) and in

- accordance with the *Operations, Maintenance, Repair, Replacement and Rehabilitation Manual for the Napa River/Napa Creek Flood Protection Project*, dated April 2018, and incorporated herein by reference.
- c. The Napa County Flood Control District shall implement the approved *Post Construction Contingency Plan (PCCP)* in the Petroleum Residual Contamination Area (PRCA). Inspections shall be conducted in April and October of each year and after significant flood events, significant earthquakes, or major modifications to the Napa Creek/Napa River Flood Protection Project. Significant damage that threatens the integrity of the soil cap in the PRCA shall be reported to the Water Board within seven days of discovery. A corrective action plan to remedy such damage shall be submitted within 30 days after observation
31. Other stream maintenance activities shall not result in direct or cumulative significant impacts to water quality or beneficial uses of waters of the State.

Best Management Practices

32. The Dischargers shall implement the BMPs described in their respective Manuals and CEQA documents (or alternative BMPs of comparable effectiveness) to prevent pollutants from draining, being washed, or otherwise discharging into waters of the State during SMP/RMP activities.
33. The Dischargers shall divert any flow at work sites around the active maintenance areas in a non-erosive manner.
34. The Dischargers shall operate pumps/generators in locations where spills will not result in direct discharge of petroleum products or other pollutants to waters of the State.
35. The Dischargers shall halt work activities if fish, amphibians, or other aquatic organisms are exhibiting stress or are dead within 1,000 feet of a work activity or discharge. The Dischargers shall immediately assign a qualified biologist to investigate the cause of the problem, develop an acceptable corrective action plan, and determine if the cause is related to SMP activities. The Dischargers shall immediately report all incidents involving stressed or dead aquatic organisms, as well as prescribed action plans, to the Water Board and other regulatory agencies as appropriate.

Channel Assessments

36. Channel assessments shall be conducted as follows:
- a. *Napa County Flood Control District*: The Napa County Flood Control and Water Conservation District shall develop a channel assessment approach to identify one stream reach per year where routine maintenance activities will be assessed to better understand underlying flood management needs, habitat conditions, existing constraints, and opportunities for potential habitat enhancement or restoration. These channel assessments shall be used to develop restorative maintenance recommendations that achieves flood management objectives and enhances physical and biological processes over time;

- b. *San Mateo County*: shall prepare reach characterization sheets, or facility characterization sheets (see Finding 25), or update existing sheets each year to provide background on maintenance, underlying flood management needs, habitat conditions, existing constraints, opportunities for potential habitat enhancement or restoration. San Mateo County shall also evaluate maintenance needs at the sites identified in their Manual and update the maintenance triggering criteria, as appropriate, in coordination with Water Board and other regulatory agencies; and
- c. *Contra Costa Flood Control District*: shall update and expand the Resource Characterizations at high priority maintenance sites to provide the quantitative capacity evaluations needed to document and support maintenance goals. The capacity evaluations will consider channel geometry conditions, the observed flow record, history of past flooding (as available), history of past maintenance activities, and other factors. The methodology used to evaluate channel capacity will be updated and refined each year to improve the quantitative evaluations over time. The updated Resource Characterizations will include existing constraints and limiting factors to achieving improved habitat functions, opportunities for potential habitat enhancement or restoration, and longer-term maintenance goals. These Resource Characterizations will be used to identify and support maintenance activities each year and to collectively optimize physical and biological processes in the various program watersheds over time. The Contra Costa County Flood Control District shall also evaluate maintenance needs at the sites identified in their Manual and update the maintenance triggering criteria, as appropriate, in coordination with Water Board and other regulatory agencies

Mitigation

37. The Dischargers shall mitigate for impacts to water quality and beneficial uses from its maintenance activities as described in the Manuals. The Dischargers shall submit proposed compensatory mitigation, acceptable to the Executive Officer, as part of the ANR, as described in their Manuals.
38. To the maximum extent practicable, the Dischargers shall implement compensatory mitigation projects in advance of, or concurrent with, the activity causing the permitted impacts, particularly when off-site mitigation is pursued. Due to the nature of on-site mitigation, it is recognized that on-site mitigation activities will likely occur during or following the maintenance activities.
39. Mitigation shall be provided to compensate for impacts from ground-disturbing and other maintenance activities that temporarily impact waters of the State. The minimum amount of mitigation shall be provided at a 1.1:1 mitigation ratio based on the extent of impacts in acres and linear feet and the duration of temporal loss. The minimum 1.1:1 mitigation ratio shall consist of 1:1 for restoration of the temporarily impacted project area plus 0.1:1 compensatory mitigation for temporal loss in functions resulting from maintenance activities. The additional 0.1:1 may be achieved through the long-term improvement of functions within the project area if the Executive Officer determines that the temporarily impacted area is restored to better than pre-project conditions.

40. Mitigation shall be provided to compensate for permanent losses in functions, values, and acreage of waters of the State associated with permanent impacts that will occur from RMP activities. Mitigation provided for permanent impacts to waters of the State will be consistent with already established compensatory mitigation practices, including the mitigation project's proximity to the impact location (e.g., on-site, off-site), whether the mitigation is in-kind or out-of-kind, and the habitat that will be permanently impacted. The Dischargers shall propose appropriate compensatory mitigation, consistent with existing mitigation requirements for Certification and WDRs, with their ANRs. Water Board staff shall review mitigation proposals on a case-by-case basis for consistency with Certification and WDR requirements;
41. If mitigation sites do not meet performance criteria after completion of the monitoring period, the Dischargers shall prepare and implement a revised mitigation plan, acceptable to the Executive Officer, addressing corrective action, outlining additional monitoring, or proposing new mitigation.
42. The Dischargers shall be responsible for the long-term management and maintenance of the mitigation sites. The mitigation site(s) shall be placed under a perpetual deed restriction to provide long-term protection, or tracked and protected by other means, as appropriate for each Discharger.

Monitoring and Reporting

43. Each Discharger shall monitor its active project sites according to the Sediment Monitoring and Reporting Program attached to this amended Order (Attachment B). All self-monitoring reports shall be submitted annually to the Water Board as part of the Annual Post-Maintenance Report.
44. Each Discharger shall submit the Annual Notification Report (ANR), acceptable to the Executive Officer, by June 1 of the year maintenance is proposed to be conducted. The ANR shall describe the location of the proposed maintenance activity, the stream(s) and structures affected, the extent of the impact area in acres and linear feet, the expected total cubic yards of material to be removed, if dewatering will be required, and proposed compensatory mitigation if required. The ANR will also include photo documentation of existing conditions, an assessment of the need for the proposed maintenance activities, measures taken to avoid and minimize impacts to beneficial uses, and any additional content specified in the Dischargers' Manuals.
45. Each Discharger shall submit the Annual Post-Maintenance Report, acceptable to the Executive Officer, by January 31 of the year following completion of maintenance activities. The Annual Post-Maintenance Report shall describe activities conducted, mitigation implemented, monitoring results, and post-maintenance photos to document BMP effectiveness as well as channel and bank conditions immediately upstream and downstream of each project site. The Annual Post-Maintenance Report shall also include a description of any corrective actions planned to ensure effectiveness of BMPs and the results of any threatened or endangered species surveys conducted.

46. Project-Specific Notification on all channels shall include photo documentation of existing conditions, a description of the project, an assessment of the need for the proposed maintenance activities, and measures taken to avoid and minimize impacts to beneficial uses.
47. The Dischargers shall each submit a Project-Specific Notification Summary Report, acceptable to the Executive Officer, by January 31 of the year following completion of maintenance activities. This report shall describe activities conducted, mitigation implemented, and monitoring results including photo documentation of BMP success.
48. Reports, including maintenance plans, the ANR, and the Annual Post-Maintenance Report shall be developed by an interdisciplinary team with expertise in fisheries biology, hydrology, and fluvial geomorphology. The team's expertise shall be documented in the reports.
49. Before June 15 of each year, the Dischargers shall each organize a meeting and/or field tour (to discuss the projects scheduled for the upcoming maintenance season, based on the ANR).
50. After each maintenance season, the Dischargers shall each meet with Water Board staff to discuss the performance of the SMP or RMP, review lessons learned from the completed construction season, and determine the need to implement improved stream maintenance techniques and BMPs. The Dischargers shall implement all stream maintenance techniques and BMPs deemed necessary by the Executive Officer in connection with such review to protect beneficial uses.
51. Each Discharger's Manual includes activities that are exempt from annual notification requirements and which may occur any time at the discretion of the Dischargers and consistent with their Manuals.
52. After four years of SMP or RMP implementation, each Discharger shall review its respective SMP or RMP Manual with the Water Board and other regulatory agencies as appropriate, to evaluate its overall effectiveness. The review shall include an assessment of maintenance activities conducted to date, BMPs, adequacy of the SMP or RMP mitigation program, data management, adaptive updates and revisions of their Manual, and overall program coordination and communication among the Dischargers and the regulatory agencies. The Manuals may be revised or updated based on this review. The Executive Officer may extend this amended Order's authorization administratively, and the Water Board may consider issuing Water Quality Certification and WDRs for additional five-year periods to allow continuation of SMP or RMP implementation.
53. Napa County Flood Control District shall submit the following additional monitoring reports, as referenced in Finding 35:
 - a. The Napa County Flood Control District shall submit monitoring reports as required by the *Post Construction Contingency Plan*, dated February 2019 (see Attachment C for monitoring and reporting schedule). This report shall describe monitoring conducted for the Petroleum Residual Contamination Area and shall include the

- results of semi-annual inspections, any episodic inspections, and any corrective actions that may have been implemented
- b. The Napa County Flood Control District shall submit monitoring reports as required by the *Operations, Maintenance, Repair, Replacement and Rehabilitation Manual for the Napa River/Napa Creek Flood Protection Project*, dated April 2018 (see Attachment C for monitoring and reporting schedule).
 - c. The Napa County Flood Control District shall submit monitoring reports as required by the *Monitoring Plan for the Rutherford Reach Restoration of the Napa River*, dated 2015 (see Attachment C for monitoring and reporting schedule).
 - d. The Napa County Flood Control District shall submit monitoring reports as required by the *Napa River Restoration: Oakville to Oak Knoll Project Monitoring Plan*, dated March 2015 (see Attachment C for monitoring and reporting schedule).

Fees

54. In accordance with 23 CCR section 2200, the Dischargers shall pay an annual fee to the Water Board each fiscal year (July 1 – June 30) until Project construction activities are completed. If monitoring is required, the Dischargers shall pay an annual fee to the Water Board until monitoring activities are completed.
55. This amended Order is conditioned upon total payment of the full fees, including annual fees, required in State regulations (23 CCR sections 2200(a)(3) and 3833(b)(3) and owed by each Discharger. Extension of this amended Order's authorization may require payment of a fee. The Dischargers paid the following fees:
- a. Napa County Flood Control District: paid the Application, \$9,169, fee for this Project in full on May 15, 2019, calculated as "Category A – Fill & Excavation Discharges" with the dredge and fill fee calculator.
 - b. San Mateo County: paid the Application fee for this Project calculated as "Category A – Fill and Excavation Discharges" with the dredge and fill fee calculator, in two payments, \$1,638 on May 1, 2019, and \$59,071 on September 17, 2020;
 - c. Contra Costa County Flood Control District: paid the Application fee for this Project, calculated as "Category A – Fill and Excavation Discharges" with the dredge and fill fee calculator, in two payments, \$1,638 on October 4, 2020, and \$54,290 on December 14, 2020.

Records Provisions

56. The Dischargers shall maintain a data management system to monitor stream maintenance activities, natural resources in the SMP and RMP areas, permitting requirements, and mitigation activities.

57. The Executive Officer may request that information regarding the SMP and RMP be provided to the Water Board at times outside of the reporting requirements specified in this amended Order.
58. The Dischargers shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this amended Order, and records of all data used to complete the application for this amended Order, for a period of at least five years from the date of the sample, measurement, report or application. This period may be extended by request of the Executive Officer at any time.
59. The Dischargers shall submit electronic versions of any submitted reports or documents.

General Provisions

60. All provisions in this amended Order apply to all streams and maintenance activities identified in the Manuals.
61. The following activities are not included in the Manual and, therefore, are not covered in this amended Order: capital improvement projects; discharge of decant water from dredged sediments back to receiving waters; projects that would alter the designed flood conveyance capacity of a channel; large sediment removal or dredging projects greater in length than the limits established in the Provision 19 of this amended Order; and emergency activities and procedures. A situation is considered an “emergency” if it is a sudden, unexpected occurrence involving a clear and imminent danger that demands immediate action to prevent or mitigate loss of or damage to life, health, property, or essential public services. Emergency includes such occurrences as fire, flood, earthquake or other soil or geologic movements, as well as such occurrences as riot, accident or sabotage (Pub. Res. Code § 21060.3).
62. The Dischargers shall comply with all the Prohibitions, Discharge Specifications, Receiving Water Limitations, and Provisions of this amended Order immediately upon adoption of the Order or as otherwise provided in the Order.
63. This amended Order does not allow for the take, or incidental take, of any special status species.
64. The Dischargers shall implement the SMP or RMP in accordance with the methods described in the Manual and the requirements of this Order and shall comply with all applicable water quality standards.
65. Ground-disturbing maintenance activities occurring below top-of-bank shall only occur during the low-flow or dry season specific to each Discharger’s SMP or RMP (herein defined as June 15 - October 31 for Napa County Flood Control; June 15 to October 15 for San Mateo County; and June 15 to October 31 for Contra Costa County Flood Control), unless an exception is granted. No new instream sediment removal work shall start after October 15 of any year but work already underway shall have until October 31 to be completed. During dry years, when channels become dry earlier than the defined dry season for each Discharger, an exception may be granted to conduct

ground-disturbing maintenance activities outside their work window. Exceptions may be made on a project-by-project basis with advance approval by the Executive Officer and federal and State regulatory agencies, as appropriate.

66. Disturbed soil related to SMP or RMP activities shall be stabilized and winterized. Required planting shall be performed no later than the fall/winter planting season in the year following project installation.
67. If, at any time, an unauthorized discharge to surface water (including wetlands, rivers or streams) occurs, or any water quality problem arises, the associated SMP and RMP activities shall cease immediately until corrective actions have been implemented. Corrective actions shall include (1) implementing adequate BMPs to eliminate the discharge, and (2) clean up and remediate any recoverable pollutants. The Water Board shall be notified promptly and in no case more than 24 hours after the unauthorized discharge or water quality problem arises.
68. This Water Quality Certification and issuance of WDRs is subject to modification or revocation upon administrative or judicial review, including review and/or reconsideration pursuant to Water Code section 13330 and 23 CCR section 3867.
69. This Water Quality Certification 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 23 CCR 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.
70. The 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, such as new or revised total maximum daily load requirements adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or CWA section 303.
71. The Dischargers shall maintain a copy of this Order and all relevant plans and BMPs at SMP work sites, so as to be available at all times to site operating personnel.
72. The Dischargers shall correct any and all problems that arise from an SMP activity, including a failure to meet the conditions of this Order that results in an unauthorized release of pollutants, including sediment.
73. The Dischargers shall permit Water Board staff or their authorized representatives, upon presentation of credentials,
 - a. to enter areas where maintenance activities are planned or under way, wastes are located, or records are kept;
 - b. Access to copy any records required to be kept under the terms and conditions of this Order;

- c. Access to inspect any treatment equipment, monitoring equipment, or monitoring method required by this Order; and
 - d. Access to sample any discharge or surface water covered by this Order.
74. 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 CWA section 401(d), the applicability of any State law authorizing remedies, penalties, process or sanctions 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 in this Order, the 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 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 in this Order, the Water Board may add to or modify the conditions in this Order as appropriate to ensure compliance.
75. This amended Order authorizes SMP and RMP activities for the following periods. That authorization may be extended for periods of up to five years by the Executive Officer following a review of the SMP and RMP by the Dischargers and Water Board staff, submittal of a comprehensively updated Manuals to address the results of the review, and acceptance of that Manuals by the Executive Officer, as described in the Provisions. Mitigation and monitoring requirements that extend beyond the term of this Order are not subject to the Order's expiration date outlined above and remain in full effect and are enforceable.
- a. Napa County Flood Control District For the Napa County Flood Control District, the authorization expires on October 31, 2024;
 - b. San Mateo County: For San Mateo County, the authorization expires on December 16, 2025; and
 - c. Contra Costa County Flood Control District: For Contra Costa County, the authorization expires on December 16, 2025.

I, Michael Montgomery, Executive Officer, do hereby certify that the foregoing is a full, complete and correct copy of an amended Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on, and effective on, December 16, 2020.

Michael Montgomery
Executive Officer

Attachment A: Napa County Flood Control District SMP Manual

Attachment B: Sediment Monitoring and Reporting Program

Attachment C: Monitoring and Reporting Schedule

Attachment D: San Mateo County RMP Manual

Attachment E: Contra Costa County Flood Control District RMP Manual