

San Francisco Bay Conservation and Development Commission

375 Beale Street, Suite 510, San Francisco, California 94105 tel 415 352 3600 fax 888 348 5190

State of California | Gavin Newsom – Governor | info@bcdc.ca.gov | www.bcdc.ca.gov

October 13, 2022

Transmitted Via Electronic Mail Only

TO: Members of the Sonoma Resource Conservation District
FROM: Lawrence J. Goldzband, Executive Director (415/352-3653; larry.goldzband@bcdc.ca.gov)
SUBJECT: Instructions for Completing BCDC Permit No. M2018.026.00; Levee Maintenance Program

Dear BCDC Permit Holders:


Enclosed please find a copy of your San Francisco Bay Conservation and Development Commission (BCDC) Permit No. M2018.026.00 authorizing dredging of sediment for in-kind levee maintenance and repair as a participant in the Sonoma Resources Conservation District's levee maintenance program, executed by the Executive Director.

Please (1) **complete** the acknowledgment section of the permit¹, which indicates that you have read and that you understand all of the terms and conditions of the permit, and (2) **return** the entire permit within the ten-day time period (see Standard Conditions IV-A). The attached Notice of Completion and Declaration of Compliance form shall be returned to the Commission upon project completion.

Furthermore, your permit contains special conditions which require you to take certain specific actions. Please understand that **no** work may commence on the project until the permit is executed and returned to the Commission. Until the Commission receives the executed permit, the permittee does not have the necessary authorization for the work authorized under the permit. The commencement of any work within the Commission's jurisdiction without the necessary authorization from the Commission is a violation of the McAteer-Petris Act and could subject you to substantial fines.

If you should have any questions regarding the permit or the procedure outlined above, please contact me at 415-352-3669 or pascale.soumoy@bcdc.ca.gov.

Sincerely,

DocuSigned by:

572CD676158C499...

PASCALE SOUMOY
Environmental Scientist

LJG/PS/ra

Enclosures: BCDC Permit No. M2018.026.00 and Exhibits A-T

¹ For your convenience, you will receive an email copy of the permit via DocuSign for your acknowledgement and e-signature.



San Francisco Bay Conservation and Development Commission

375 Beale Street, Suite 510, San Francisco, California 94105 tel 415 352 3600 fax 888 348 5190

State of California | Gavin Newsom – Governor | info@bcdc.ca.gov | www.bcdc.ca.gov

PERMIT NO. M2018.026.00

(Issued on October 13, 2022)

Landowner Members of the Sonoma Resource Conservation District

California Department of Fish and Wildlife ATTENTION: Erin Chappell 7329 Silverado Trail Napa, CA 94558	City of Santa Rosa ATTENTION: Zach Kay 4301 Llano Road Santa Rosa, CA 95407	Hendricks Development Company ATTENTION: Sidney Hendricks 6614 Lakeville Hwy Petaluma, CA 94954
Circle Bar Ranch LLC ATTENTION: Sue Smith 25700 Arnold Drive Sonoma, CA, 95476	Kenwood BPSC Hunt Club, LLC. ATTENTION: Mike Sutsos 6600 Nobel Road Sonoma, CA 95476	Pat Stornetta ATTENTION: Joe Leveroni 601 Leveroni Rd. Sonoma, CA 95476
Vicki Mulas 2034 Fremont Dr. Sonoma CA, 95476	Redwood Landfill, Inc. ATTENTION: Barry Skolnick P.O. Box 793 Novato CA, 94948	Fairview Vineyards ATTENTION: Thomas Bachman 6500 Lakeview Highway Petaluma, CA 94954
Thomas Crane 5970 Petaluma Hill Road Santa Rosa, CA 95404	Carneros River Ranch ATTENTION: Craig Von Schalsha 275 Sears Point Road Petaluma, CA 94952	Frank's Trading Company ATTENTION: Frank and Judy Tsang 1683 Galvez Avenue San Francisco, CA 94124
City of Petaluma ATTENTION: Chelsea Thompson 202 North McDowell Boulevard Petaluma, CA 94954	El Novillero-Donnell Ranch ATTENTION: Justin Faggiolli and Sandra Donnell P.O. Box 1363 Tiburon, CA 94920	Riverside Equestrian Center ATTENTION: Howard Herman 7600 Lakeville Highway Petaluma, CA 94954
Marin County Airport and County of Marin ATTENTION: Dan Jensen 451A Airport Road Novato, CA 94945	Vallejo Flood and Wastewater District ATTENTION: Jennifer Harrington 450 Ryder Street Vallejo, CA 94590	Western Gravel Company ATTENTION: James Rees 985 University Avenue, Suite 12 Los Gatos, CA 95032

I. Authorization

- A. Subject to the conditions stated below, the permittees listed on this permit, the participating members of the Sonoma Resource Conservation District that have signed and thereby agreed to the conditions of this permit, are hereby authorized to do the following:

Location: In the Bay, within the 100-foot shoreline band, and in certain waterways on Sonoma Creek, North and East Branch of Sonoma Creek, Tolay Creek, Napa Slough, Second Napa Slough, Third Napa



BCDC Permit No. M2018.026.00

Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022

Page 2

Slough, Hudeman Slough, Steamboat Slough, Schell Slough, Railroad Slough, Rainbow Slough, San Antonio Creek, Petaluma River, Schultz Slough, Black John Slough and San Pablo Bay, in Marin and Sonoma Counties (Exhibit A).

- Description:**
1. Dredge up to 75,000 cubic yards (cy) of sediment from tidal waterways annually over a five-year period to maintain existing flood protection levees. The mechanically dredged sediment shall be placed directly on the adjacent levee crown for drying and grading and shall not exceed four cubic yards of sediment per linear foot of levee. In addition, the dredging for maintenance of each levee shall not exceed 10,000 cy of sediment per 2,500 linear feet per parcel per year (Exhibits B through T); and
 2. In-kind repair, maintenance, and in-kind replacement of existing tidal control structures, pumping stations, and drainage pipes.
- B. Based on Application Dated.** This authority is generally pursuant to and limited by the application dated February 23, 2018, including accompanying and subsequently submitted information and exhibits, and all conditions of this permit.
- C. Deadlines for Commencing and Completing Authorized Work.** Work originally authorized herein must commence prior to October 31, 2023, or this permit will lapse and become null and void. The work must be diligently pursued to completion by November 30, 2027, unless an extension of time or activity is granted by amendment of this permit.

II. Special Conditions

The authorization made herein shall be subject to the following special conditions, in addition to the standard conditions in Part IV:

- A. Work Authorized.** The work authorized herein is specifically limited to: (1) dredging, not to exceed 10,000 cy per individual authorized parcel within the Commission's jurisdiction for a total of 75,000 cy per year of subtidal sediment for levee repair and maintenance; (2) the use of the dredged sediment to cap and repair existing levees in-kind only (Exhibits B through T); and (3) the in-kind maintenance, repair, and in-kind replacement of tidal control structures, culverts, and pumps. This permit only authorizes improvements to existing, currently serviceable levees in order to prevent flooding and inundation of the permittees' properties. This permit does not authorize the construction of new levees or the reconstruction of levees, which: (1) have deteriorated to such an extent that they have subsided or eroded to a crest elevation below five feet above Mean Sea Level, (2) are regularly breached or overtopped by tidal waters, or (3) would protect areas that have not been actively farmed since 1998.

- B. **Construction Operations.** Every reasonable precaution shall be taken to minimize the spillage of dredged sediment into tidal areas and to avoid driving or placing construction equipment in tidal areas, other than the buckets of draglines, backhoes, or other equipment needed to dredge sediment for levee maintenance. In the event that such equipment or sediment escapes or is placed in an area subject to tidal action of the Bay, the permittees shall immediately retrieve and remove it at their expense.
- C. **Maintenance Manual.** The permittees shall conduct work consistent with the activities described in the *Petaluma River and Sonoma Creek Levee Maintenance Manual (2022)* (Maintenance Manual) that defines the maintenance activities available to the landowners, the minimization measures to protect species and habitat, and provides an organizational framework for the program managers. The permittees shall provide a copy of any amendments to the Maintenance Manual to the Commission within 30 days for review. If the Commission staff determines that such amendments would result in changes to the maintenance activities, the permittees may not implement such changed practices without first requesting and obtaining an amendment to this permit prior to implementing changes to practices authorized herein.
- D. **Best Management Practices.** The permittees shall employ "best management practices" included herein and those defined in the Maintenance Manual, in repairing and maintaining levees, tidal control structures, pumps, and drainage pipes, to minimize impacts on the adjoining tidal wetlands and wildlife. At locations that have experienced little subsidence, construction shall be confined to the levee crest and landward slope and, wherever possible, a small berm or "choker" shall be constructed on the levee crest prior to placing earthen fill to minimize material slipping into the tidal wetlands. For the same reason, the earthen fill shall be compacted after the sediment has dried, to assure that the sediment will not erode into the Bay shortly after placement.
- At locations where subsidence has led to pronounced differences in elevation between the marsh plain and adjoining agricultural land and the levee must be widened to effect repairs, sediment may be placed on the bayward slope of the levee provided that fill and equipment incursions into tidal areas is kept to a minimum, that every reasonable effort is made to minimize erosion or slippage of sediment into tidal areas, and that existing marsh vegetation is protected to the maximum extent practicable. Further, all construction debris shall be removed from the project site for proper disposal outside of the Commission's jurisdiction.
- E. **Marsh and Upland Plant Protection During Construction.** The permittees shall maintain a vegetated tidal marsh buffer at least 25 feet wide of tidal marsh, wherever possible, adjacent to the water side of the levee to preserve the levee toe and maintain existing habitat values to as great an extent as possible. No vegetative buffer is required in areas where the creek, slough or waterway precludes the presence of vegetated habitat.

BCDC Permit No. M2018.026.00Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022

Page 4

The work authorized by this permit shall be performed in a manner that will prevent any significant adverse impact on any tidal marsh or other sensitive wetland resources on the bayward side of the levee. Disturbance or removal of vegetation shall be the minimum necessary to complete the project. If any unforeseen adverse impacts occur to any such area as a result of the activities authorized herein, the permittees shall restore the area to its previous condition, including returning the disturbed area to its original elevation and soil composition and, where possible, replace any viable vegetation, such as clumps of pickleweed, root-downward into the borrow area to aid in re-vegetation of the borrow site. In areas where this is not feasible, or if the area does not re-vegetate to its former condition within one year, the permittees shall seed the disturbed area with appropriate marsh vegetation.

- F. **Wildlife Protection.** The permittees shall not disturb nesting birds or mammals during the breeding season without prior consultation with the California Department of Fish and Wildlife (CDFW) and approval of a CDFW representative. In addition, if wildlife is observed within the proposed construction area, it shall be allowed to leave the construction area unharmed.
- G. **Protection of Special Status Species.** NOAA's National Marine Fisheries Service's (NOAA Fisheries) and CDFW did not authorize any "take" or "incidental take" through their biological opinion or Streambed Alteration Agreement. Therefore, permittees shall work only during daylight hours and take all precautions to avoid adverse impacts to the Ridgway's rail (formerly known as the California clapper rail), California black rail, salt marsh harvest mouse, San Pablo song sparrow, salt marsh yellow throat, winter-run chinook salmon, and Central Valley steelhead trout, coastal steelhead and green sturgeon consistent with the 2013 CDFW Streambed Alteration Agreement (as amended), U.S. Fish and Wildlife Service's (USFWS) 1994 biological opinion (updated in 1995 and 2000) and NOAA Fisheries' 2012 biological opinion and 2018 letter of concurrence that the project was not likely to adversely affect protected species. The permittees shall employ the mitigation measures outlined in the CDFW Streambed Alteration Agreement, USFWS and NOAA Fisheries biological opinions, which are incorporated herein by reference and detailed below.

If any listed species is found within the project area, all activity in that area must cease and the animal(s) shall be allowed to leave the area without interference or harassment. The appropriate resource agency should be contacted for further direction prior to resuming any construction activity. In addition, if any listed species is injured or killed by project activities, the activity in that area must cease, the appropriate resource agency and BCDC staff must be contacted immediately, and the dead or injured animal must be given to a representative of the appropriate resource agency.

1. **Green Sturgeon and Salmonid Protection.** Dredging activities shall be limited to the timeframes and locations as described herein:
 - a. **Main Channels.** From Highway 37 upstream to Highway 121, participating landowners may dredge sediment from the main channels of the Petaluma River, Sonoma Creek, San Antonio Creek, Napa Slough, Second Napa Slough, Third Napa Slough and Hudeman Slough from June 1st through October 31st.
 - b. **Secondary Channels.** From Highway 37 upstream to Highway 121, participating landowners may dredge sediment from non-main channels (i.e. secondary channels, sloughs or creeks) that are subject to daily tidal influence from June 1st through November 30th. Such areas include, but are not limited to Steamboat Slough, Railroad Slough, and Tolay Creek, as well as unnamed sloughs that are subject to daily tidal influence.
 - c. **Shoreline.** Along the shoreline of Sonoma Creek, Tolay Creek, Tubbs Island, and San Pablo Bay, downstream from Highway 37 to the mouth of Sonoma Creek, and extending to the southwestern extent of the levees along the shoreline of San Pablo Bay, dredging shall be restricted to periods of low tide at any time of year .
2. **Pre-construction Survey for Protected Avian Species.** Two weeks prior to any construction activity between February 1st and August 31st a designated biologist, acceptable to the CDFW and the USFWS, shall conduct a Ridgway's and black rail survey and a burrowing owl survey to confirm that there are no rails or burrowing owls present or active nest sites within 700 feet of the proposed project area. In the event that active rail nests are identified, or rails displaying breeding behaviors, no construction activity can occur in that area plus a 700-foot buffer around the rail territory or nest until the area has been vacated by the rails.

Similarly, if active burrowing owl burrows are identified, 250-foot buffer shall be established around the burrow and no construction activity can occur within that area until all signs of adult or juvenile burrowing owl use of that burrow is determined to be abandoned.

In addition, if black rail or Ridgway's rail are sighted, harmed or killed at locations where work is authorized by this permit, work shall immediately cease and such sightings shall be immediately reported to the USFWS, CDFW and the Commission and construction activities shall not be reinitiated until the agencies determine that the concerns over listed species are resolved.
3. **Salt Marsh Harvest Mouse.** When work will occur in vegetated areas, the permittee shall implement the following procedures, to protect the state and federally listed salt marsh harvest mouse, consistent with the CDFW 2013 Streambed Alteration Permit (as amended):

BCDC Permit No. M2018.026.00

Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022

Page 6

- a. Ensure permittees and their contractors attend an onsite education program provided by CDFW that includes a discussion of the general behavior, distribution, and habitat needs of the mouse.
 - b. Exclude salt marsh harvest mouse from the borrow areas by habitat removal using one of the following methods: (a) removal of marsh vegetation using powered or non-powered hand tools; (b) after a joint site visit with the resource agencies to determine where this measure is appropriate, vegetation can be mechanically removed via a long reach excavator or other mechanized equipment in areas that are inundated with tidal action immediately prior to, during or immediately after high tide; (c) after approval from the CDFW, borrow sediment from areas that are sparsely vegetated (less than 20 % coverage); or via the development of alternate exclusion methods that are acceptable to CDFW and the Commission.
4. The permittees shall minimize the amount of disturbance to, and removal of, vegetation to the minimum necessary to complete the project.
- H. **Invasive Species Prevention.** In order to prevent the spread of invasive species, the permittees and their contractors shall implement cleaning and disinfecting procedures on all equipment prior to use within the marsh or riverine areas, specifically to deter spread of such species as New Zealand mudsnail in the Rush Creek, Petaluma and Novato Creek area, and invasive plants such as star thistle and pepperweed throughout the project area.
- I. **State Lands Commission Lease.** Permittees shall maintain a current lease with the California State Lands Commission for the properties within its jurisdiction. Within 30 days of obtaining the new lease, the permittees or their agent shall provide a signed copy of the lease to the Commission staff.
- J. **Reporting.** By May 1st of each reporting year the permittees, through the Sonoma Resource Conservation District, shall provide the Commission with an annual schedule of all work proposed to be done pursuant to this permit for that year. The report shall include the following information: (1) a map showing the location of all maintenance activities proposed to be performed pursuant to this permit; (2) the amount of proposed dredged material for each location; (3) the amount of proposed fill material to be placed at each location; and (4) a report of the actual dredging and levee repair work carried out during the previous 12 months, including the months in which the work was accomplished for each parcel. Any work proposed thereafter for that year shall be submitted in a similar format to the Commission no less than 30 days prior to the date when work would be started. Within 30 days of the submittal date, the staff shall notify the permittee(s) of any proposed work that does not conform to the intent, terms or conditions of this permit. Such notification shall constitute denial of the work under this permit. A separate BCDC application can be made for any such denied work.

- K. **Landowner “Opt-Out”.** Within 30 days of notification from a permittee listed herein that the permittee has “opted out” of the Sonoma Resource Conservation District levee maintenance program, the District shall provide a letter to the Commission staff noting the landowner and parcels that is no longer part of the program. At that time, the landowner and his/her property will no longer be authorized for dredging or levee maintenance work within the Commission’s jurisdiction. In the event that the landowner later rejoins the program, he/she shall apply for and obtain a BCDC permit prior to any dredging or levee maintenance work within the Commission’s jurisdiction.
- L. **Future Permit Amendment.** The maintenance activities described herein are authorized for a period of five years beginning October 13, 2022. Based on the evaluation of the annual reports submitted to date summarizing the work completed pursuant to this permit, the effectiveness of best management practices in minimizing disturbance to existing habitat, and reported impacts to special status species, this permit may be extended for another five-year period at the discretion of the Commission. Such extension may include modifications to the best management practices and modifications to construction windows, based upon monitoring results and experience with methods to minimize habitat disturbance and harmful effects to special status species. Any proposed modification shall be approved, disapproved or approved with modifications by or on behalf of the Commission following Commission staff consultation with interested agencies, other organizations, and individuals.
- M. **Notice to Contractor.** The permittee(s) shall provide a copy of this permit to any contractor or person working in concert with the permittee(s) to carry out the activities authorized herein and shall point out the special conditions contained herein.
- N. **Certification of Contractor Review.** Prior to commencing any grading, demolition, or construction, the general contractor or contractors in charge of that portion of the work shall submit written certification that s/he has reviewed and understands the requirements of the permit, particularly as they pertain to environmentally sensitive areas.
- O. **Permit Assignment.** Prior to entering into any agreement to sell or otherwise transfer any property interest to any third party, the permittees, or any assignee of this permit or any part of it, shall provide the party with a copy of this permit and shall call his or her attention to the provisions protecting wetland resources and requiring marsh restoration, and the need to coordinate all work performed under this permit with the Sonoma Resource Conservation District.

III. Findings and Declarations

On behalf of the Commission, I find and declare that:

- A. The project is primarily located in the Commission’s certain waterway jurisdiction within the Petaluma River and Sonoma Creek watersheds with a smaller portion of the project located in the Commission’s Bay and shoreline band jurisdiction along San Pablo Bay. The project involves in-kind maintenance of existing levees and water control structures

BCDC Permit No. M2018.026.00Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022

Page 8

as well as new work dredging of up to 75,000 cy per year for a five-year period. The dredged sediment would be used to maintain existing flood control levees to protect agricultural, industrial and restoration properties. As described, this project is consistent with and defined by Regulation Section 10602(b), and the repairs to existing protective works in the minimum amount necessary to stabilize existing dikes and banks, as defined in Regulation Sections 10601(b)(4), and thus is a "minor repair or improvement" for which the Executive Director may issue a permit, pursuant to Government Code Section 66632(f) and Regulation Section 10622(a).

- B. The project authorized by this permit is consistent with the McAteer-Petris Act and with the San Francisco Bay Plan. The levee maintenance projects authorized by this permit will likely provide some environmental benefits, such as protecting properties located behind the levees from flooding, and may increase tidal circulation which could increase overall marsh productivity and thereby may increase the overall species diversity of the marsh. However, the endangered species formal consultation letter from the USFWS, dated September 9, 1994, and the CDFW Streambed Alteration Agreement (as amended) described a number of potential adverse environmental impacts that could result from project activities on listed species and species of special concern, including salmonids, green sturgeon, Ridgway's rail, salt marsh harvest mouse, and burrowing owl, as well as migratory bird species. Among the impacts cited are: (1) the creation of borrow ditches may interrupt access to higher levee slopes for the salt marsh harvest mouse during high tide events, thereby increasing predation; (2) the temporary loss of salt marsh habitat as a result of dredging activity may reduce available cover for both the mouse and the rail and possible nesting habitat for the rail; (3) levee repair work conducted at high tide may reduce the availability of high tide refuge for the rail, subjecting the rail to increased predation; and (4) disturbance during the breeding season (February through August) may result in rails or other birds abandoning breeding territories. The mitigation measures included in this permit are designed to offset these impacts to wetland resources and endangered species, as required by the Bay Plan policies on marshes and mudflats and fish and wildlife. Per Special Conditions C, D, E and G the permit requires: (1) the use of best management practices, as defined in the Maintenance Manual (2022); (2) the maintenance of at least 25-foot vegetative berms wherever possible to preserve habitat for feeding, nesting, and refuge; (3) limited periods of work during fish spawning or migration periods; and (4) minimal disruption of habitat. Specifically, Special Condition G.2 requires that a CDFW and USFWS designated biologist conduct a pre-construction rail and burrowing owl survey for activities occurring between February 1 and August 31 to ensure that neither rail, burrowing owl or active nest are present within 700 feet of the project area. These conditions adhere to Fish, Other Aquatic Organisms and Wildlife policy 4 that requires consultation with resources agencies when a project may impact endangered or threatened plant or wildlife species.

NOAA Fisheries evaluated the proposed project in their biological opinion, dated September 21, 2012, for potential adverse effects to the Green Sturgeon (*Acipenser medirostris*), the Steelhead (*Oncorhynchus mykiss*), the Coast Steelhead (*Oncorhynchus mykiss*) and the Chinook Salmon (*Oncorhynchus tshawytscha*). The biological opinion restricts levee maintenance activities to the period between June 1 and October 31 along the tidal channels most likely to be seasonally occupied by Central California Coast Steelhead. Further, NOAA Fisheries' Essential Fish Habitat recommendation states that prior to dredging, landowners should identify whether widgeon grass (*Ruppia* spp.) and/or sago pondweed (*Stuckenia* spp.) are present in the areas to be dredged. If present, landowners should avoid dredging in areas with these species and/or notify the SRCD and document the extent of widgeon grass and/or sago pondweed within and around the dredged area with Global Positioning System coordinates taken before and 30 days after dredging occurs, and annually during summer months (June through October) for a minimum of one year following dredging and provide this information to NOAA Fisheries for further impact analysis. The Maintenance Manual (2022) (Special Condition C) includes these species avoidance and minimization measures as part of the levee maintenance program consistent with Fish, Other Aquatic Organisms and Wildlife policies protective of habitat.

The CDFW Streambed Alteration Agreement (as amended) for the levee maintenance includes additional minimization measures to avoid "take" of state listed species. The CDFW and NOAA Fisheries did not issue incidental take authorization for this project and, therefore, a number of avoidance measures were included in this permit to satisfy the Commission's Fish, Other Aquatic Organisms and Wildlife Policy 4, which require "take authorization" from the appropriate resource agency prior to issuance of a Commission permit. This authorization as written and conditioned is consistent with the CDFW Streambed Alteration Agreement, particularly the requirements found in Special Condition G that state that: work can only be conducted during daylight hours and within the authorized work windows; and that onsite education shall be provided for permittees and contractors about species behavior, habitat and the proper techniques to avoid negatively impacting them.

- C. The activities authorized in this permit are consistent with the Bay Plan's dredging and water quality policies, which state that dredging should occur in an environmentally and economically sound manner that minimizes negative impacts to water quality and endangered species. By restricting the work to the period described in Special Condition II-G; following best practices and seasonal limitations to prevent takings of endangered and threatened species; and coordinating with CDFW, USFWS and NOAA Fisheries to minimize adverse effects on fish, other aquatic organisms and wildlife habitat, the project adheres to the Bay Plan's Fish, Other Aquatic Organisms and Wildlife policies. The project is also consistent with the Bay Plan's Tidal Marshes and Tidal Flats policies 2 and 3 that require protection of tidal marshes and specifically transition zones between tidal and upland habitat, per Special Conditions E and F that : (1) includes re-establishment of marsh vegetation where its re-vegetation doesn't occur naturally; (2) doesn't

significantly impact the majority of the marsh or adjacent mudflats and its ecological value; (3) respects the functional interactions between the species and the habitat; and (4) maintains a transition zone of twenty-five feet between the intertidal zone and the levees.

The *Petaluma River and Sonoma Creek Levee Maintenance Manual (2022)* produced by the Sonoma Resources Conservation District details the activities related to the maintenance of the levees including the dredging, best management practices and species protections and monitoring. The Maintenance Manual includes the requirements of CDFW, USFWS, NOAA and the Water Board and is designed to be a “living” document to be updated as needed, including when there are changes in the landowners participating in the program. Should changes be made to the Maintenance Manual, Special Condition II.C requires these revisions to be submitted to the Commission for review prior to implementing any changes in management practices. Special Conditions II. D, F and G require minimization measures that are also included in the Maintenance Manual and are consistent with Water Quality Policy 3, Tidal Marshes and Tidal Flats Policy 2 and Fish, Other Aquatic Organisms and Wildlife Policy 1. These policies protect subtidal habitat and wildlife by requiring that projects be designed and maintained to minimize adverse impacts to the Bay and tidal marshes including effective best management practices benefiting fish and other species.

- D. The USFWS 1994 biological opinion required the permittees to prepare and implement a detailed tidal salt marsh habitat restoration plan to compensate for the temporary loss of 71 acres of Ridgway’s rail and salt marsh harvest mouse habitat associated with their levee maintenance activities. The permittees, along with the Sonoma Resource Conservation District, the USFWS, U.S. Army Corps of Engineers (USACE) and Environmental Protection Agency (EPA), proposed tidal marsh restoration at the Tolay Creek Restoration Project located south of Highway 37 on the east side of Tolay Creek, as compensation for the temporary loss of 71 acres of habitat. The permittees also worked with the Commission to offset the loss of habitat and provided a plan to restore not less than 10 acres of rail and salt marsh harvest mouse habitat. These restoration plans were submitted to the Commission and other agencies for review and were subsequently approved. The plans included habitat enhancement, monitoring for compliance with the plans, and design and management for salt marsh harvest mouse and Ridgway’s rail habitat; they were implemented and completed by the end of 1998. Upon their completion, future Commission permits for dredging to obtain sediment for levee maintenance and repair at the locations authorized herein will not require additional mitigation for impacts to salt marsh harvest mouse and Ridgway’s rail habitat provided there are no significant changes in the scope and extent of levee maintenance work. This mitigation adheres to the Bay Plan’s Mitigation Policies, particularly Policy 1 as efforts were made to minimize adverse impacts of levee maintenance on wildlife as

BCDC Permit No. M2018.026.00

Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022

Page 11

well as compensating for unavoidable impacts. Coordinating with the Tolay Creek Restoration Project allowed the mitigative restoration to take place near the levee maintenance sites and the support of the project by state and federal resources agencies met requirements of Mitigation Policies 2 and 8 respectively.

- E. The Commission further finds, declares, and certifies that the activity or activities authorized herein are consistent with the Commission's Amended Management Program for San Francisco Bay, as approved by the Department of Commerce under the Federal Coastal Zone Management Act of 1972, as amended.
- F. Pursuant to Regulation Section 11501, the project authorized by this permit is categorically exempt from the requirement to prepare an environmental impact report. In addition, the Sonoma Resource Conservation District as lead agency for CEQA, determined that the Project was categorically exempt from review under CEQA based on Section 15304 Minor Alterations to Land and Water.
- G. Pursuant to Regulation Section 10620, this project was listed with the Commission on October 6, 2022.

IV. Standard Conditions

- A. **Permit Execution.** This amended permit shall not take effect unless the permittee(s) execute the original of this amended permit and return it to the Commission within ten days after the date of the issuance of the amended permit. No work shall be done until the acknowledgment is duly executed and returned to the Commission.
- B. **Notice of Completion.** The attached Notice of Completion and Declaration of Compliance form shall be returned to the Commission within 30 days following completion of the work.
- C. **Permit Assignment.** The rights, duties, and obligations contained in this amended permit are assignable. When the permittee(s) transfer any interest in any property either on which the activity is authorized to occur or which is necessary to achieve full compliance of one or more conditions to this amended permit, the permittee(s)/transferors and the transferees shall execute and submit to the Commission a permit assignment form acceptable to the Executive Director. An assignment shall not be effective until the assignees execute and the Executive Director receives an acknowledgment that the assignees have read and understand the amended permit and agree to be bound by the terms and conditions of the amended permit, and the assignees are accepted by the Executive Director as being reasonably capable of complying with the terms and conditions of the amended permit.
- D. **Permit Runs With the Land.** Unless otherwise provided in this amended permit, the terms and conditions of this amended permit shall bind all future owners and future possessors of any legal interest in the land and shall run with the land.

- E. **Other Government Approvals.** All required permissions from governmental bodies must be obtained before the commencement of work; these bodies include, but are not limited to, the U. S. Army Corps of Engineers, the State Lands Commission, the Regional Water Quality Control Board, and the city or county in which the work is to be performed, whenever any of these may be required. This amended permit does not relieve the permittee(s) of any obligations imposed by State or Federal law, either statutory or otherwise.
- F. **Built Project Must Be Consistent with Application.** Work must be performed in the precise manner and at the precise locations indicated in your application, as such may have been modified by the terms of the amended permit and any plans approved in writing by or on behalf of the Commission.
- G. **Best Management Practices**
1. **Debris Removal.** All construction debris (e.g. fencing, trash, etc.) shall be removed to an authorized location outside the jurisdiction of the Commission. In the event that any such material is placed in any area within the Commission's jurisdiction, the permittee(s), its assignees, or successors in interest, or the owner of the improvements, shall remove such material, at their expense, within ten days after they have been notified by the Executive Director of such placement.
 2. **Construction Operations.** All construction operations shall be performed to prevent construction materials from falling, washing or blowing into the Bay. In the event that such material escapes or is placed in an area subject to tidal action of the Bay, the permittee(s) shall immediately retrieve and remove such material at its expense.
- H. **Life of Authorization.** Unless otherwise provided in this amended permit, all the terms and conditions of this amended permit shall remain effective for so long as the amended permit remains in effect or for so long as any use or construction authorized by this amended permit exists, whichever is longer.
- I. **Commission Jurisdiction.** Any area subject to the jurisdiction of the San Francisco Bay Conservation and Development Commission under either the McAteer-Petris Act or the Suisun Marsh Preservation Act at the time the amended permit is granted or thereafter shall remain subject to that jurisdiction notwithstanding the placement of any fill or the implementation of any substantial change in use authorized by this amended permit. Any area not subject to the jurisdiction of the San Francisco Bay Conservation and Development Commission that becomes, as a result of any work or project authorized in this amended permit, subject to tidal action shall become subject to the Commission's "bay" jurisdiction.
- J. **Changes to the Commission's Jurisdiction as a Result of Natural Processes.** This amended permit reflects the location of the shoreline of San Francisco Bay when the amended permit was issued. Over time, erosion, avulsion, accretion, subsidence, relative sea level change, and other factors may change the location of the shoreline,

BCDC Permit No. M2018.026.00Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022

Page 13

which may, in turn, change the extent of the Commission's regulatory jurisdiction. Therefore, the issuance of this amended permit does not guarantee that the Commission's jurisdiction will not change in the future.

- K. Violation of Permit May Lead to Permit Revocation.** Except as otherwise noted, violation of any of the terms of this amended permit shall be grounds for revocation. The Commission may revoke any amended permit for such violation after a public hearing held on reasonable notice to the permittee(s) or their assignees if the amended permit has been effectively assigned. If the amended permit is revoked, the Commission may determine, if it deems appropriate, that all or part of any fill or structure placed pursuant to this amended permit shall be removed by the permittee(s) or their assignees if the amended permit has been assigned.
- L. Should Permit Conditions Be Found to be Illegal or Unenforceable.** Unless the Commission directs otherwise, this amended permit shall become null and void if any term, standard condition, or special condition of this amended permit shall be found illegal or unenforceable through the application of statute, administrative ruling, or court determination. If this amended permit becomes null and void, any fill or structures placed in reliance on this amended permit shall be subject to removal by the amended permittee(s) or their assignees if the amended permit has been assigned to the extent that the Commission determines that such removal is appropriate. Any uses authorized shall be terminated to the extent that the Commission determines that such uses should be terminated.
- M. Permission to Conduct Site Visit.** The permittee(s) shall grant permission to any member of the Commission's staff to conduct a site visit at the subject property during and after construction to verify that the project is being and has been constructed in compliance with the authorization and conditions contained herein. Site visits may occur during or after business hours with 24-hour notice.

Executed at San Francisco, California, on behalf of the San Francisco Bay Conservation and Development Commission on the date first above written.

DocuSigned by:

FD166E908010417...

LAWRENCE J. GOLDZBAND
Executive Director
San Francisco Bay Conservation
and Development Commission

LJG/PS/ra

BCDC Permit No. M2018.026.00
Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022
Page 14

cc: Bryan Matsumoto, US Army Corps of Engineers, Bryan.T.Matsumoto@usace.army.mil
Kari Wester, Sonoma Resources Conservation District, Kwester@sonomarc.org
Andrew Trent, NOAA Fisheries, Andrew.trent@noaa.gov
Ryan Olah, U.S. Fish and Wildlife Service, ryan_olah@fws.gov
Nicole Fairley, Regional Water Quality Control Board, Nicole.Fairley@Waterboards.ca.gov
James Hansen, California Department of Fish and Wildlife, James.hansen@wildlife.ca.gov
Marlene Schroeder, California State Lands Commission, Marlene.Schroeder@slc.ca.gov

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at Bay Delta Region, Fairfield

California Department of Fish and Wildlife
Permittee

On 10/28/2022 | 1:11:15 PM PDT

By: 
B77E9A6211EF486...

Erin Chappell
Regional Manager
Title

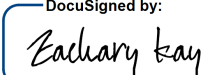
* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at zkay@srcity.org

City of Santa Rosa
Permittee

On 10/14/2022 | 10:48:57 AM PDT

By: 
4620D838E032492...

Zach Kay
Biosolids Coordinator
Title

BCDC Permit No. M2018.026.00
Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022
Page 15

* * * * *

Receipt acknowledged, contents understood and agreed to: See Attached Signed Page

Executed at _____

Hendricks Development Company
Permittee

On _____

By: _____
Sidney Hendricks

Title

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at Sue Smith

Circle Bar Ranch LLC
Permittee

On 10/27/2022 | 6:15:39 PM PDT

By: 
Sue Smith

owner
Title

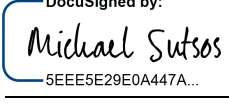
* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at wing and barrel

Kenwood BPSC Hunt Club, LLC.
Permittee

On 10/18/2022 | 12:23:05 PM PDT

By: 
Mike Sutsos

mike sutsos owner
Title

BCDC Permit No. M2018.026.00
Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022
Page 16

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at Sonoma, Ca

Pat Stornetta
Permittee

On 10/27/2022 | 5:44:45 PM PDT

DocuSigned by:
Joe Leveroni
702A0DF1CE7A4ED...
By: Joe Leveroni

Co owner
Title

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at SONOMA

Vicki Mulas
Permittee

On 10/14/2022 | 10:48:12 AM PDT

DocuSigned by:
Vicki Mulas
3246F0C5B797406...
By: Vicki Mulas

CFO
Title

* * * * *

Receipt acknowledged, contents understood and agreed to: See Attached Signed Page

Executed at _____

Redwood Landfill-Empire Waste Management
Permittee

On _____

By: _____
Glen Roycroft

Title

BCDC Permit No. M2018.026.00
Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022
Page 17

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at 6500 Lakeville Hwy, Petaluma, Ca

Fairview Vineyards
Permittee

On 10/14/2022 | 11:40:56 AM PDT

DocuSigned by:
Thomas Bachman
7ED4CC360207480...
By: Thomas Bachman

Owner
Title

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at 5970Petaluma hill Rd.SantaRosa Ca

Thomas Crane
Permittee

On 10/15/2022 | 11:19:01 AM PDT

DocuSigned by:
Thomas Crane
A399818A9819496...
By: Thomas Crane

owner
Title

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at Petaluma, ca.

Carneros River Ranch
Permittee

On 10/24/2022 | 8:43:21 AM PDT

DocuSigned by:
Craig Von Schalsha
AF4808A4AD16454...
By: Craig Von Schalsha

manager
Title

BCDC Permit No. M2018.026.00
Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022
Page 18


* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at San Francisco

Frank's Trading Company
Permittee

On 10/17/2022 | 9:02:57 AM PDT

By: 
A3B2B6111090408...
Frank Tsang
Owner
Title

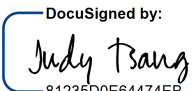
* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at San Francisco

Frank's Trading Company
Permittee

On 10/26/2022 | 9:36:03 AM PDT

By: 
81235D0E64474EB...
Judy Tsang
Co Owner
Title

* * * * *

Receipt acknowledged, contents understood and agreed to: See Attached Signed Page

Executed at _____

City of Petaluma
Permittee

On _____

By: _____
Chelsea Thompson

Title

BCDC Permit No. M2018.026.00
Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022
Page 19

* * * * *

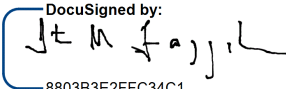
Receipt acknowledged, contents understood and agreed to:

Executed at Marin County, CA

El Novillero-Donnell Ranch

Permittee

On 10/19/2022 | 10:05:05 AM PDT

By: 
8803B3E2FFC34C1...

Justin Faggioli

C-Owner

Title

* * * * *


Receipt acknowledged, contents understood and agreed to:

Executed at Marin County, CA

El Novillero-Donnell Ranch

Permittee

On 10/14/2022 | 9:33:26 AM PDT

By: 
8AF243648642427...

Sandra Donnell

Owner

Title

* * * * *


Receipt acknowledged, contents understood and agreed to:

Executed at San Francisco, CA

Riverside Equestrian Center

Permittee

On 10/27/2022 | 1:13:49 PM PDT

By: 
0F9F17134138488...

Howard Herman

President

Title

BCDC Permit No. M2018.026.00
Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022
Page 20

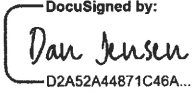
* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at Marin County

Marin County Airport and County of Marin
Permittee

On 10/26/2022 | 11:00:44 AM PDT

By: 
D2A52A44871C46A...
Dan Jensen
Airport Manager
Title

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at Vallejo, Ca

Vallejo Flood and Wastewater District
Permittee

On 10/26/2022 | 2:19:19 PM PDT

By: 
A6885275CF0B479...
Jennifer Harrington
Environmental Services Director
Title


* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at Santa Clara County

Western Gravel Company
Permittee

On 12/2/2022

By: 
James Rees
President
Title

BCDC Permit No. M2018.026.00
Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022
Page 15


* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at Petaluma, Ca

Hendricks Development Company
Permittee

On 10/18/22

By: 
Sidney Hendricks
Sidney Hendricks by Gary Hendricks
Title his attorney in fact

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at _____

Circle Bar Partnership L.P.
Permittee

On _____

By: _____
Sue Smith

Title

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at _____

Kenwood BPSC Hunt Club, LLC.
Permittee

On _____

By: _____
Mike Sutsos

Title

BCDC Permit No. M2018.026.00
Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022
Page 16

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at _____

Pat Stornetta
Permittee

On _____

By: _____
Joe Leveroni

Title

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at _____

Vicki Mulas
Permittee

On _____

By: _____
Vicki Mulas

Title

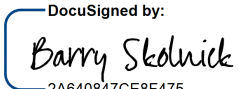
* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at Reno, NV

Redwood Landfill, Inc.
Permittee

On 11/01/2022

By: 

Barry Skolnick

president

Title

BCDC Permit No. M2018.026.00
Listed Members of the Sonoma Resource Conservation District
Levee Maintenance Program

October 13, 2022
Page 18

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at _____ Frank's Trading Company
Permittee

On _____ By: _____
Frank Tsang

Title

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at _____ Frank's Trading Company
Permittee


On _____ By: _____
Judy Tsang

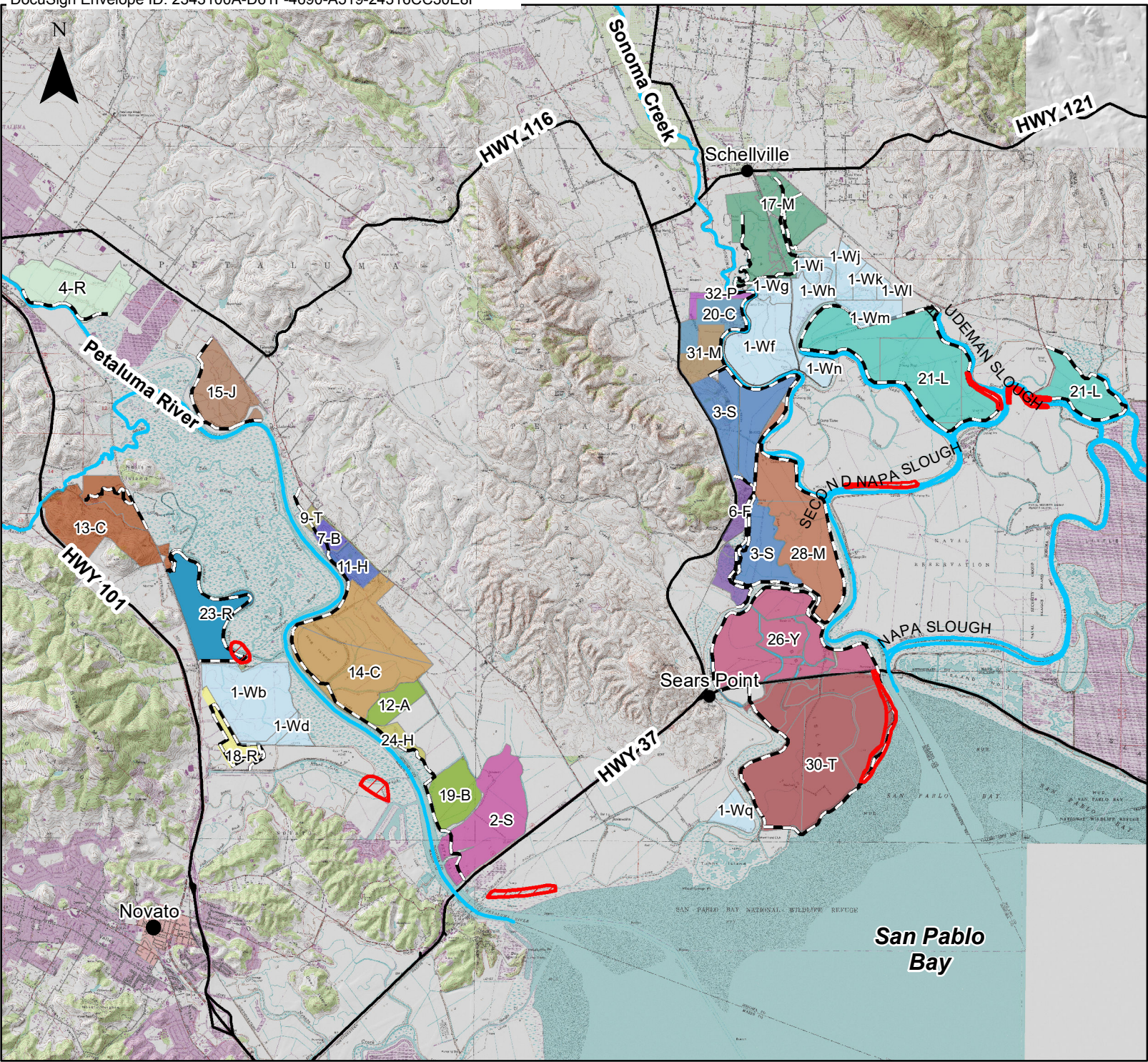
Title

* * * * *

Receipt acknowledged, contents understood and agreed to:

Executed at 1000 _____ City of Petaluma
Permittee

On 10/15/22 _____ By: 
Chelsea Thompson
Environmental Services Analyst
Title



Levee Maintenance

Exhibit A

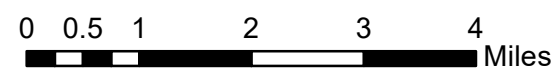
BCDC Permit M2018.026.00

Vicinity Map

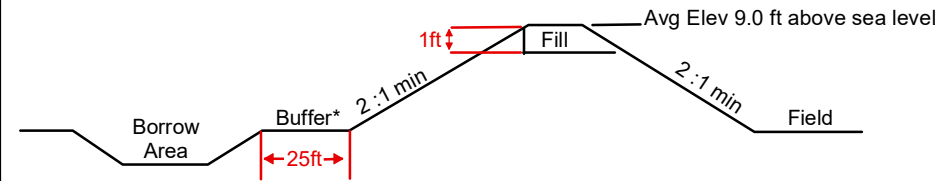
- CA Clapper Rail Habitat
- Main Channels
- Major Roads
- Levee Parcels (shaded by landowner)
- Levee Locations (approximate)

- #### Maintenance Windows
- Main Channels:
Jun 1-Oct 31
- Non-Main Channels:
Jun 1-Nov 30
- Areas pre-approved by permitting agencies: TBD work windows
- Areas South of HWY 37:
No work between Feb 28 (29)-Jun 1 otherwise year-round at low tide
- Clapper Rail Habitat:
No work between Feb 1-Aug 31

Map Updated July 11, 2022



Typical Levee Cross Section



* A 25ft buffer will be maintained, where feasible.

Levee Maintenance Exhibit B

BCDC Permit M2018.026.00

Permittee: City of Santa Rosa-Twin House (12-A)

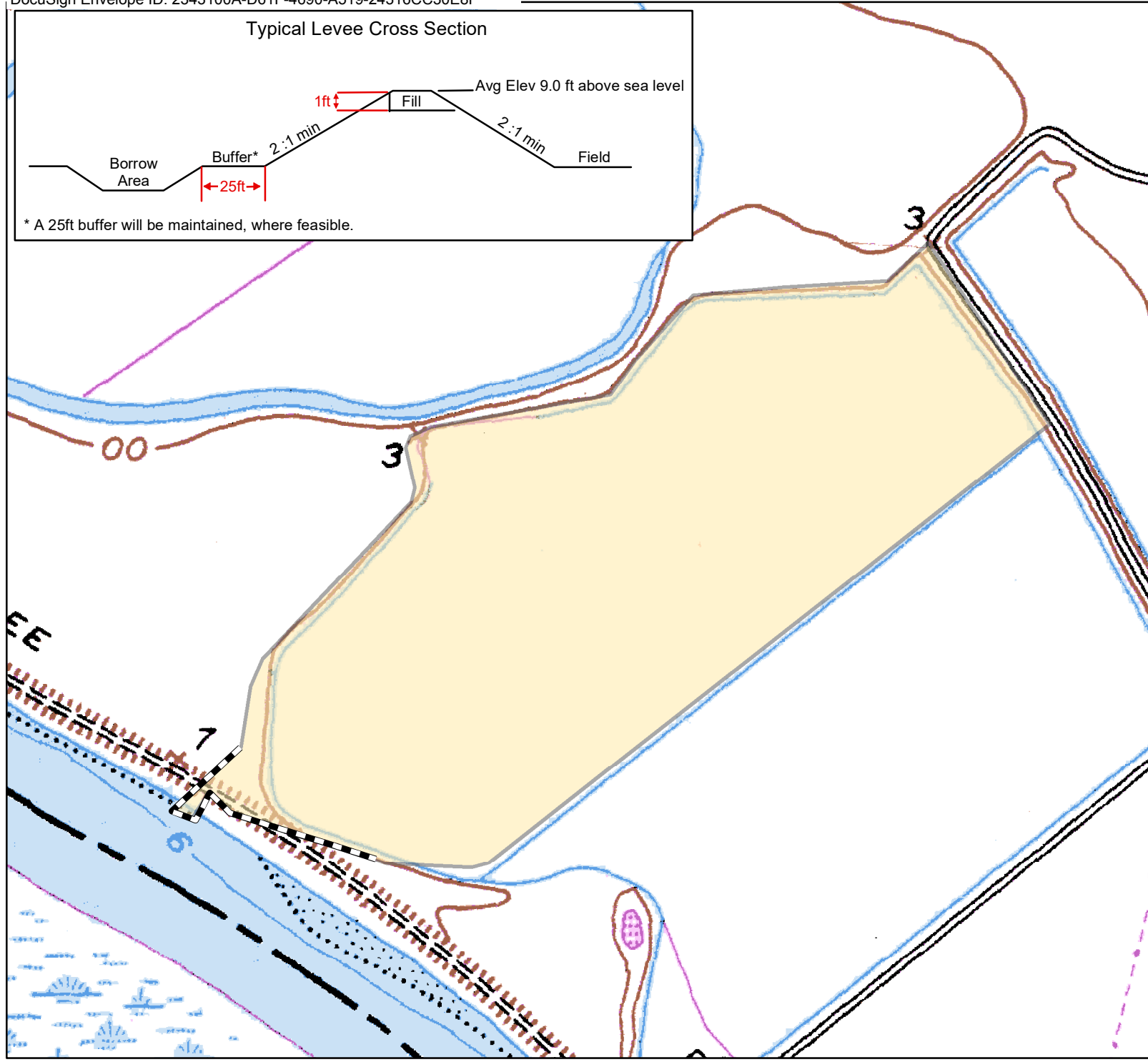
This map is for annual maintenance reporting to the permitting agencies.

-  Clapper Rail- Seasonal Restrictions (see permit conditions)
-  Landowner Parcel
-  Levee Locations (approximate)

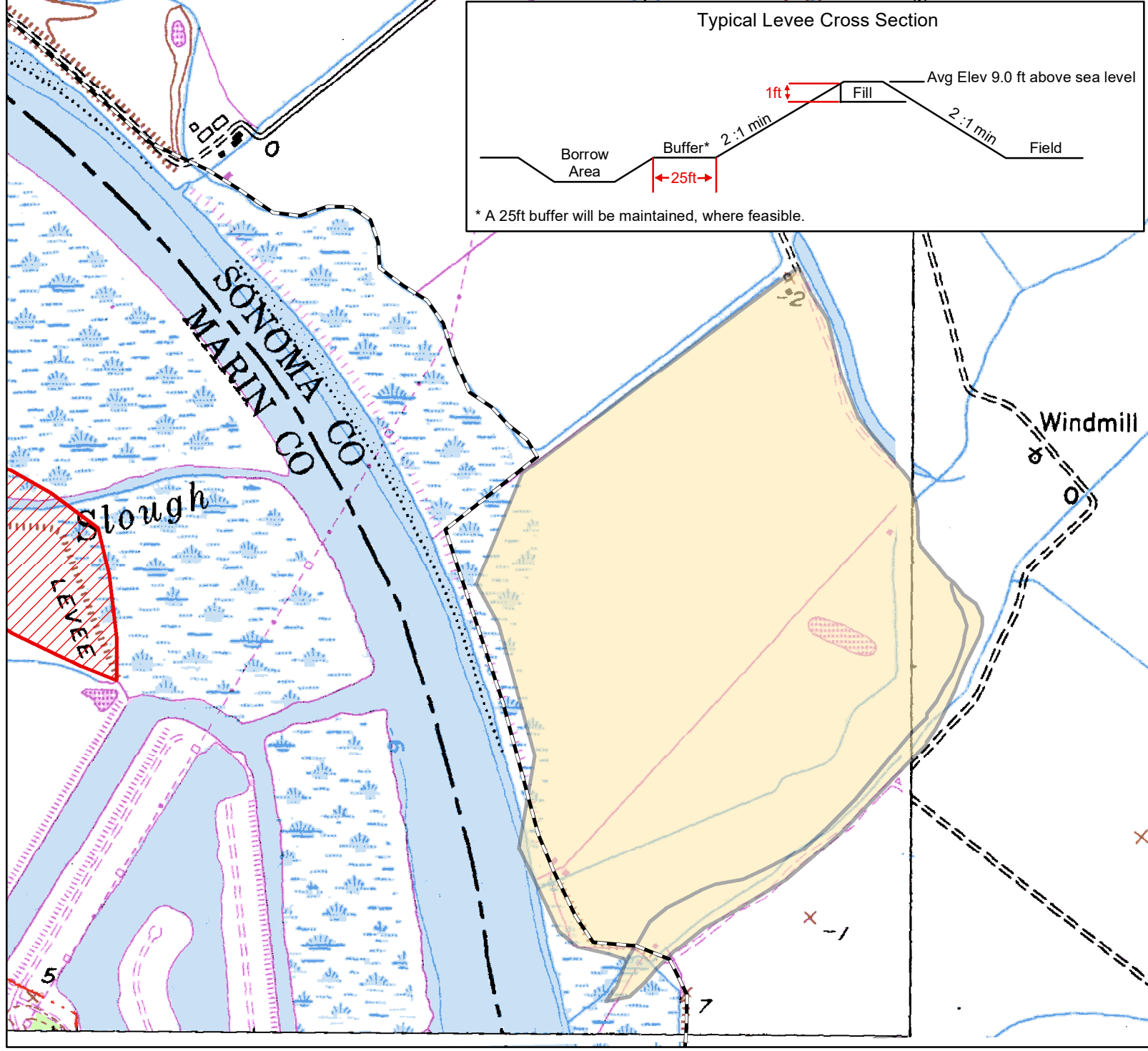
Feb 2022
 Datum: North American 1983
 Coordinate System: NAD 1983
 State Plane California II FIPS
 0402 Feet



Base layer: USGS 7.5" Topographic Quadrangle (Petaluma River)



0 1,000 2,000 4,000 Feet



Levee Maintenance

Exhibit C BCDC Permit M2018.026.00

Permittee: City of Santa Rosa- Twin Vista (19-B)

This map is for annual maintenance reporting to the permitting agencies.

- Clapper Rail- Seasonal Restrictions (see permit conditions)
- Landowner Parcel
- Levee Locations (approximate)

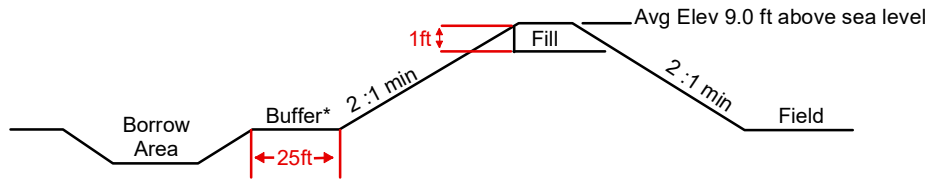
Feb 2022
 Datum: North American 1983
 Coordinate System: NAD 1983
 State Plane California II FIPS
 0402 Feet



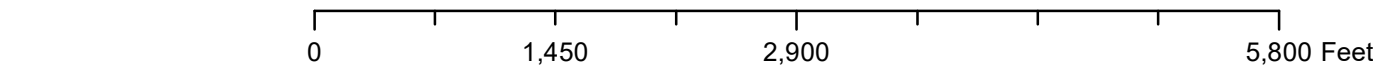
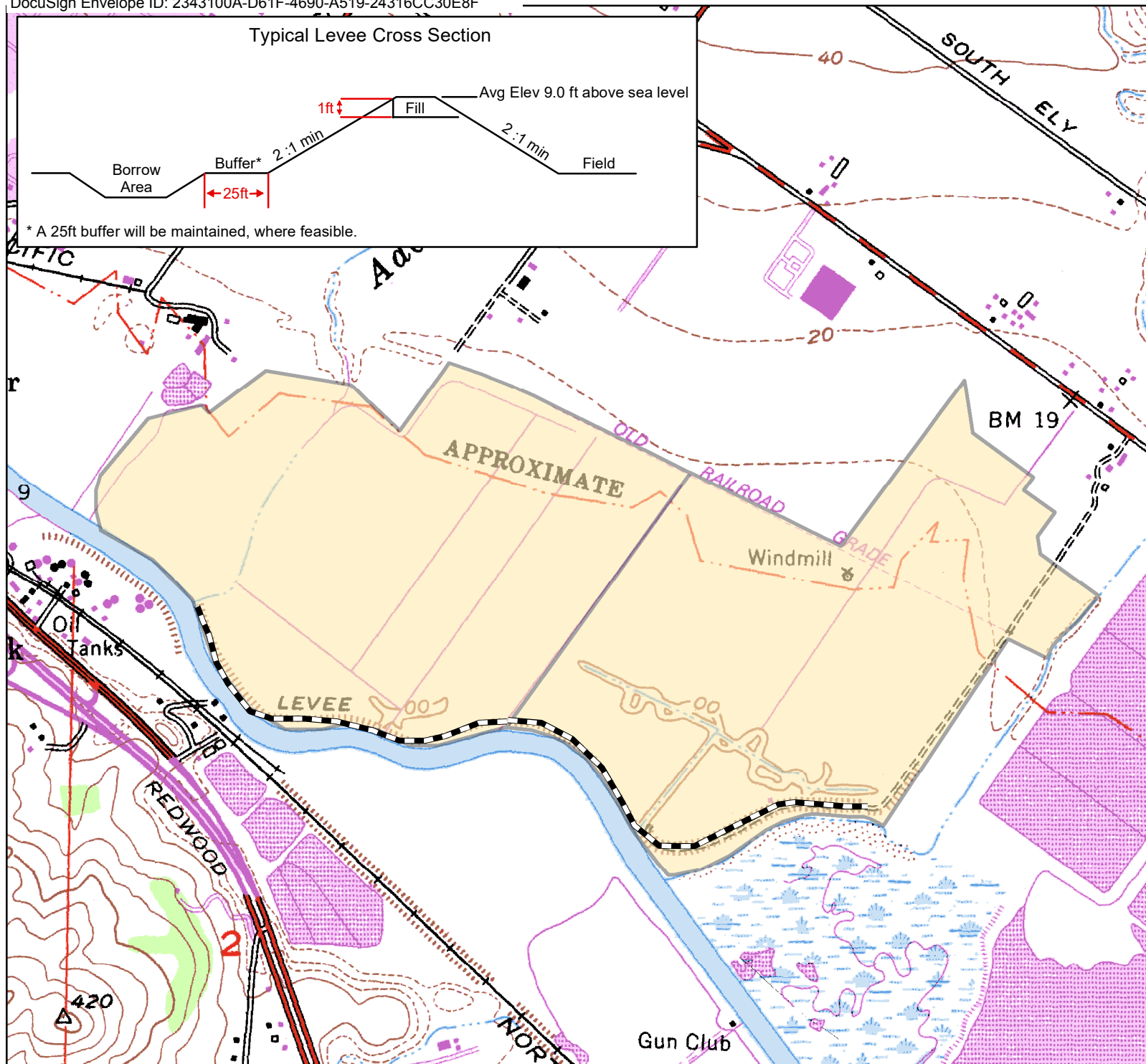
Base layer: USGS 7.5" Topographic
 Quadrangle (Petaluma River)



Typical Levee Cross Section



* A 25ft buffer will be maintained, where feasible.



Levee Maintenance

Exhibit E BCDC Permit M2018.026.00

Permittee:
City of Petaluma (4-R)

This map is for annual maintenance reporting to the permitting agencies.

-  **Clapper Rail- Seasonal Restrictions**
(see permit conditions)
-  **Landowner Parcel**
-  **Levee Locations (approximate)**

Feb 2022

Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet



Base layer: USGS 7.5" Topographic
Quadrangle (Petaluma River)






Levee Maintenance

Exhibit G BCDC Permit M2018.026.00

Permittee: Faggioli (6-F)

This map is for annual maintenance reporting to the permitting agencies.

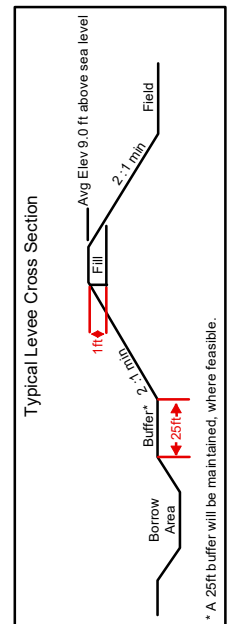
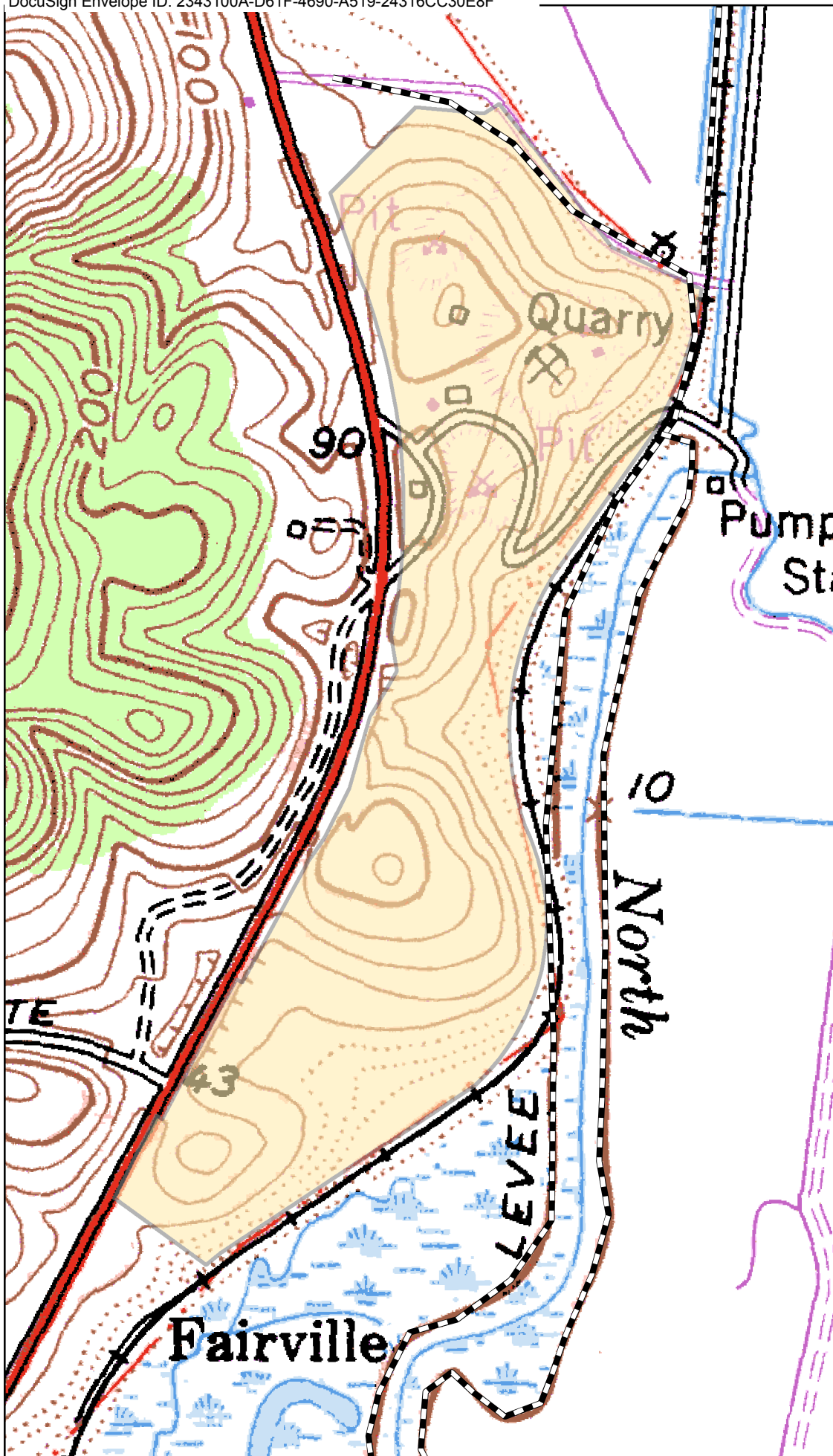
-  Clapper Rail- Seasonal Restrictions (see permit conditions)
-  Landowner Parcel
-  Levee Locations (approximate)

Feb 2022

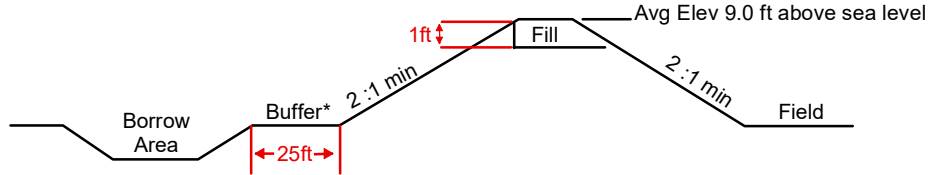
Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet



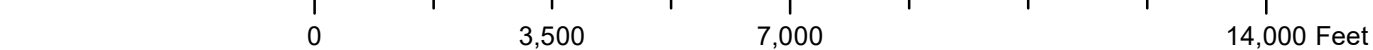
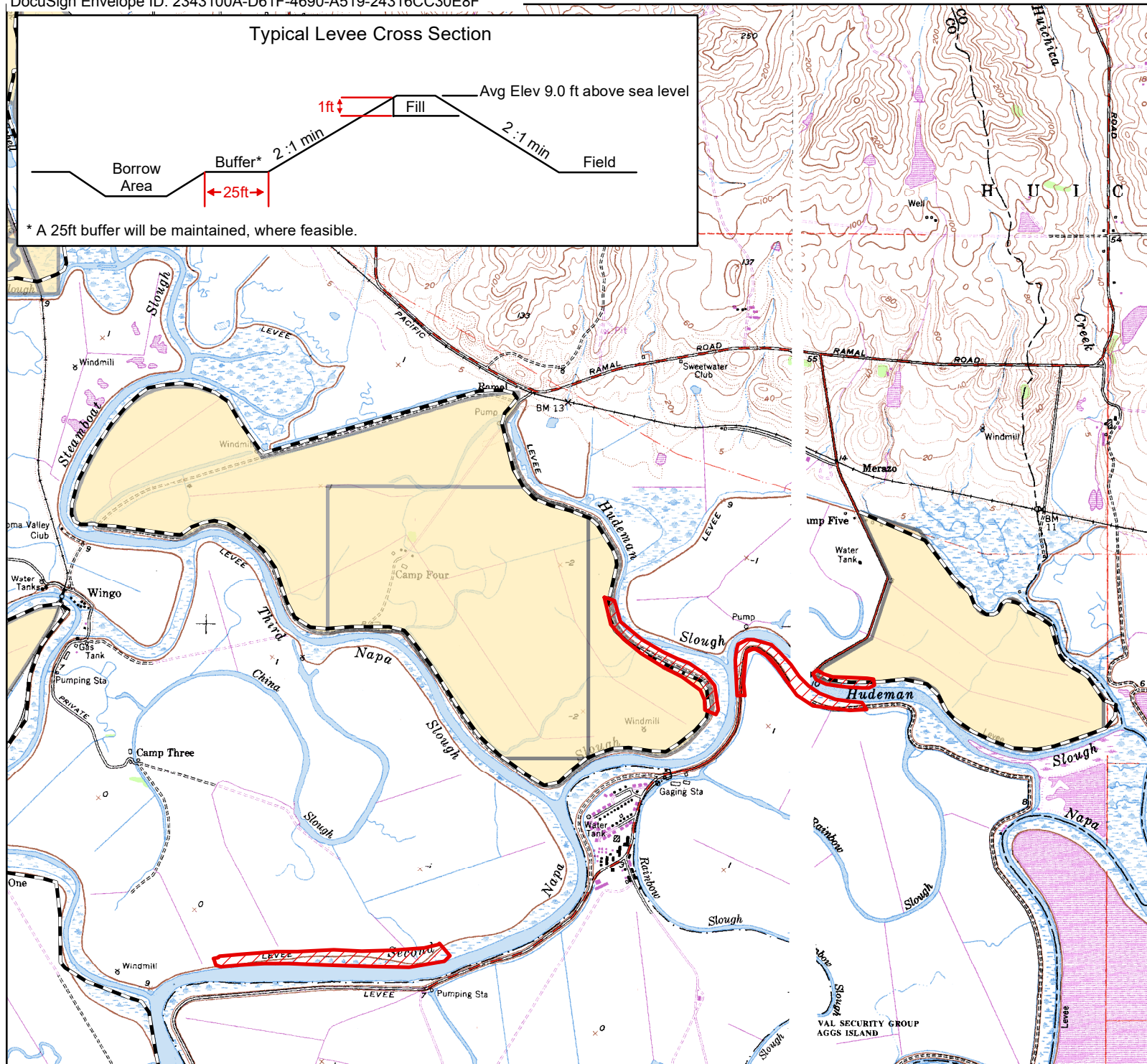
Base layer: USGS 7.5" Topographic
Quadrangle (Sears Point)



Typical Levee Cross Section



* A 25ft buffer will be maintained, where feasible.



Levee Maintenance

**Exhibit J
BCDC Permit
M2018.026.00**

**Permittee:
J. Leveroni (21-L)**

This map is for annual maintenance reporting to the permitting agencies.

-  Landowner Parcel
-  Clapper Rail- Seasonal Restrictions (see permit conditions)
-  Levee Maintenance Locations (approx.)

Oct 2021

Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet

Base layer: USGS 7.5" Topographic
Quadrangle (Sears Point, Cuttings
Wharf)




VAL SECURITY GROUP
AGGS ISLAND

Levee Maintenance

Exhibit K BCDC Permit M2018.026.00

Permittee: Mulas (17-M)

This map is for annual maintenance reporting to the permitting agencies.

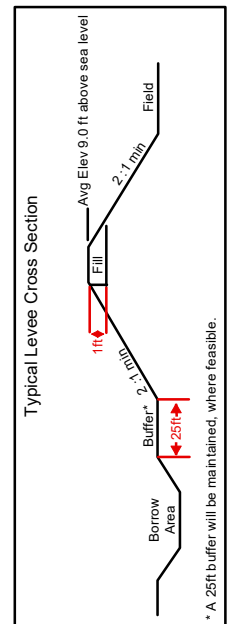
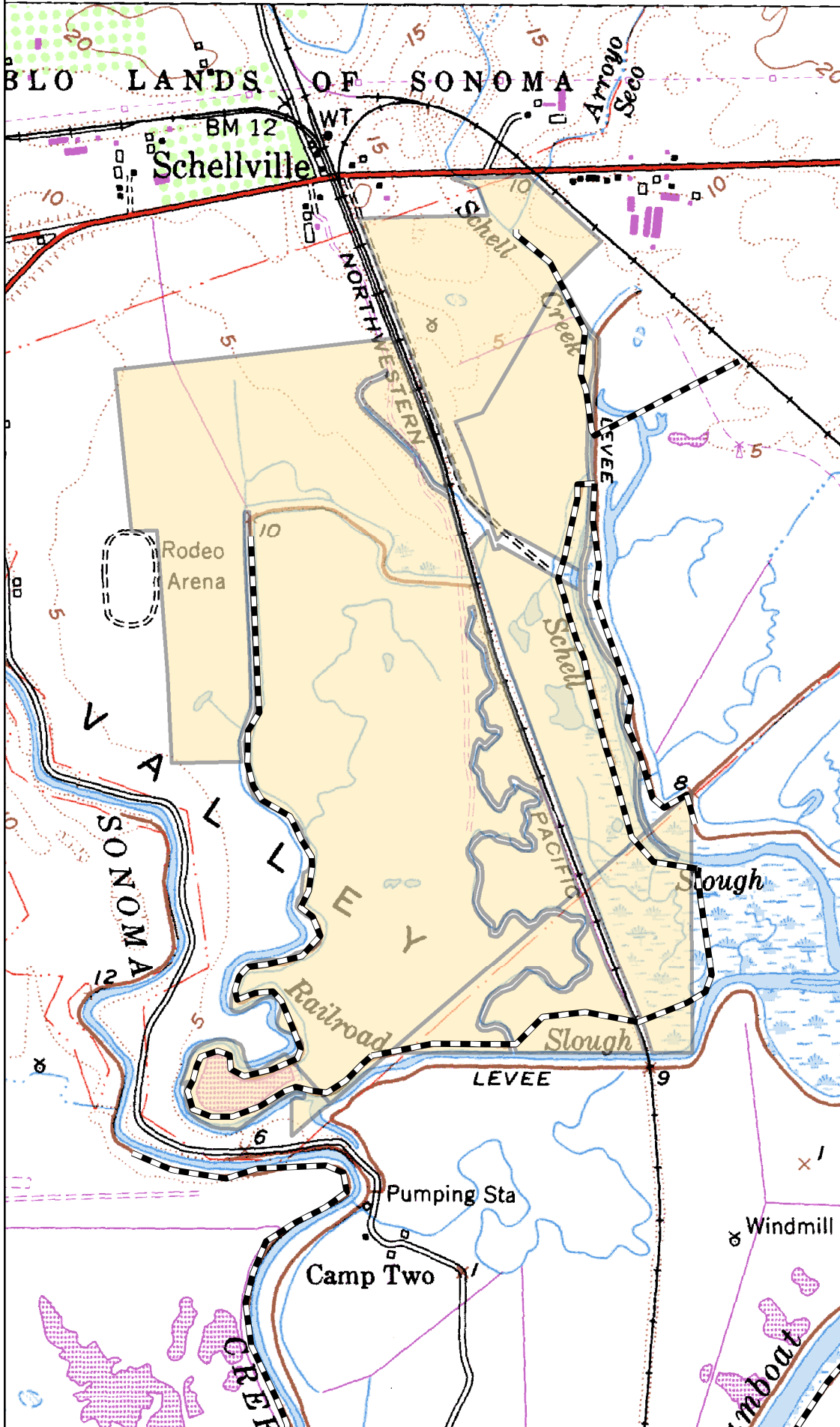
-  Clapper Rail- Seasonal Restrictions (see permit conditions)
-  Landowner Parcel
-  Levee Locations (approximate)

Feb 2022

Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet



Base layer: USGS 7.5" Topographic
Quadrangle (Sears Point)



Levee Maintenance

Exhibit L BCDC Permit M2018.026.00

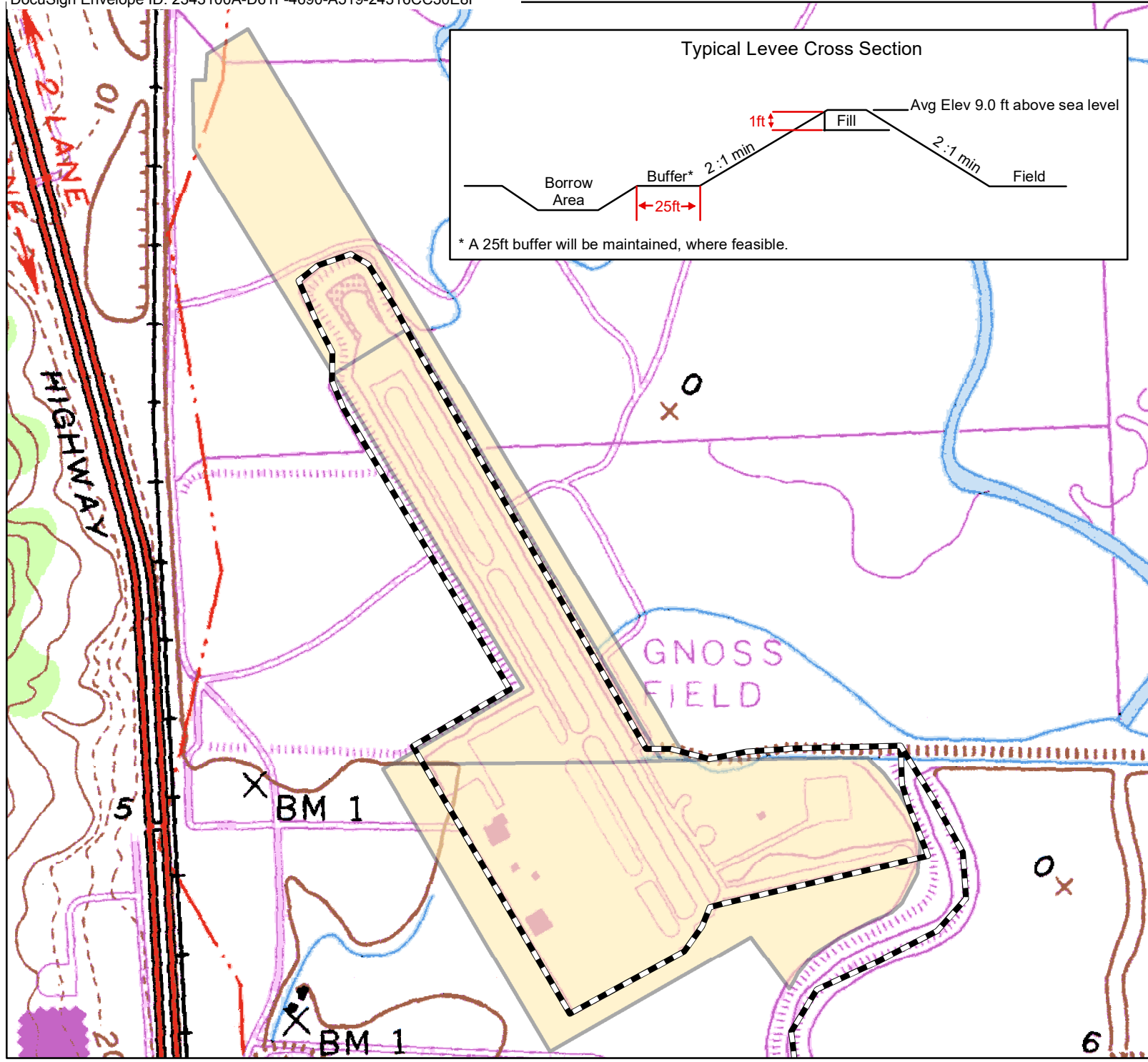
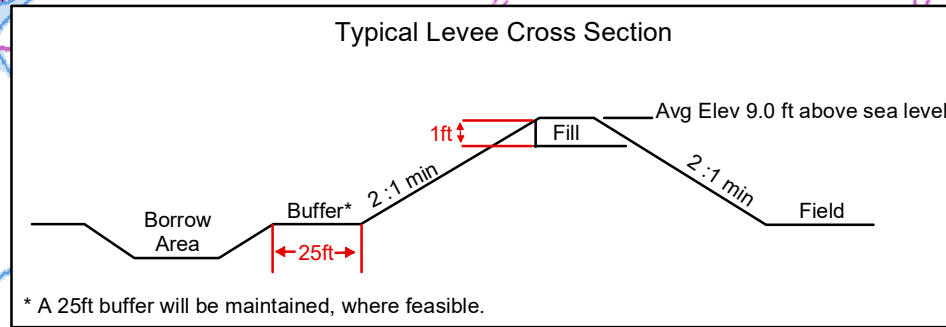
Permittee:
**Marin County Airport
(18-R)**

This map is for annual maintenance reporting to the permitting agencies.

-  Clapper Rail- Seasonal Restrictions (see permit conditions)
-  Landowner Parcel
-  Levee Locations (approximate)

Feb 2022
 Datum: North American 1983
 Coordinate System: NAD 1983
 State Plane California II FIPS
 0402 Feet

Base layer: USGS 7.5" Topographic
 Quadrangle (Petaluma River)



0 900 1,800 3,600 Feet






Levee Maintenance

Exhibit N BCDC Permit M2018.026.00

Permittee: Smith (3-S)

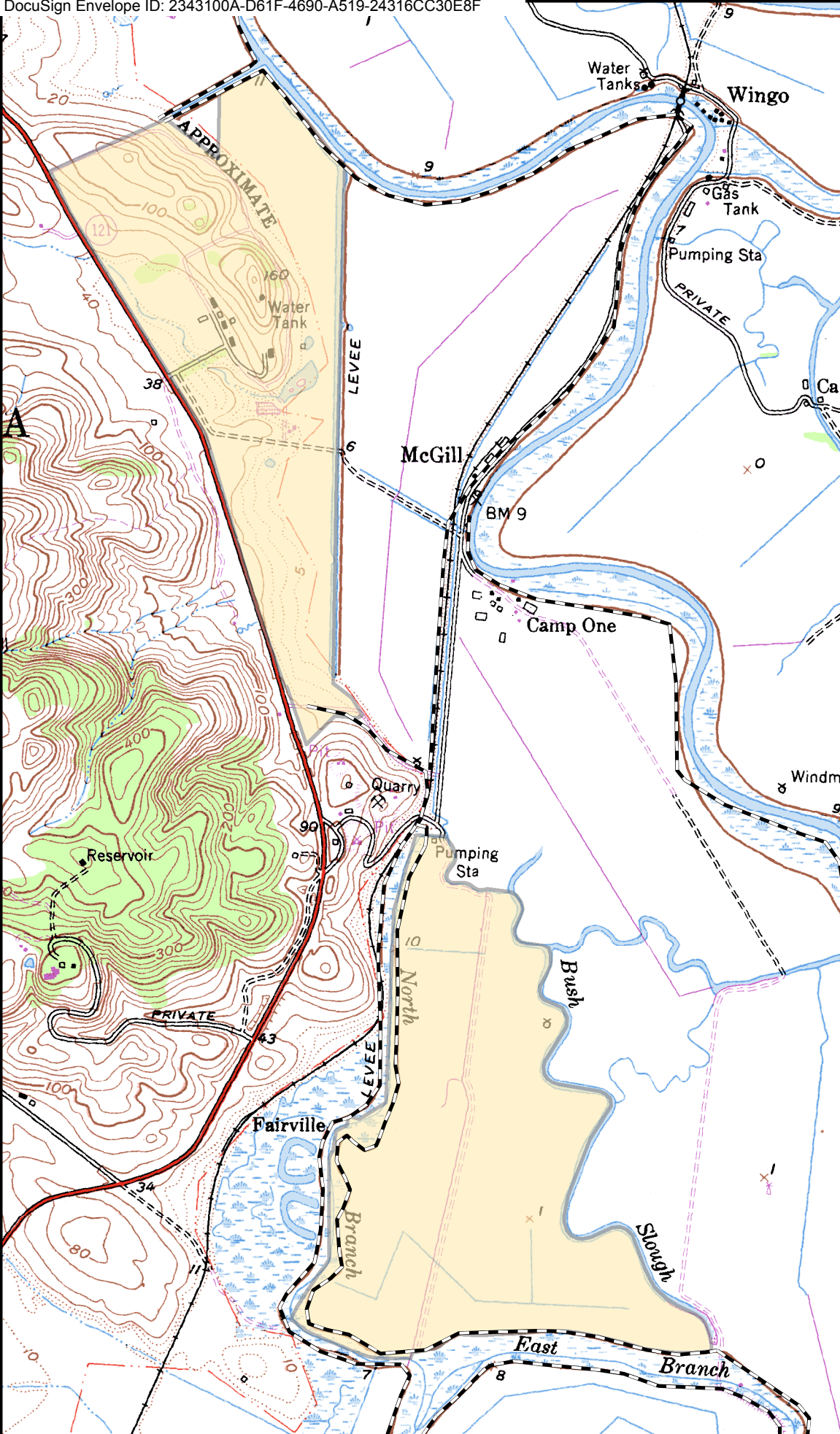
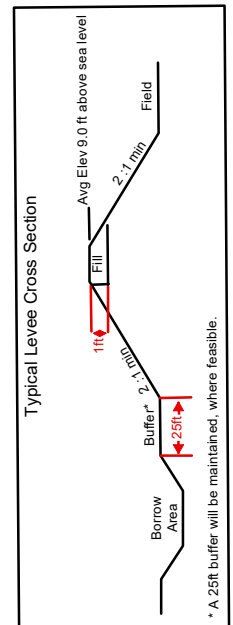
This map is for annual maintenance reporting to the permitting agencies.

-  **Clapper Rail- Seasonal Restrictions**
(see permit conditions)
-  **Landowner Parcel**
-  **Levee Locations (approximate)**

Feb 2022
 Datum: North American 1983
 Coordinate System: NAD 1983
 State Plane California II FIPS
 0402 Feet

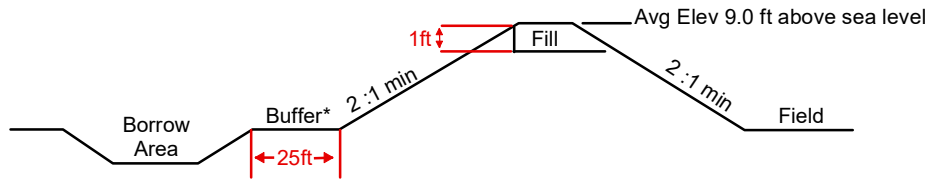


Base layer: USGS 7.5" Topographic Quadrangle (Sears Point)

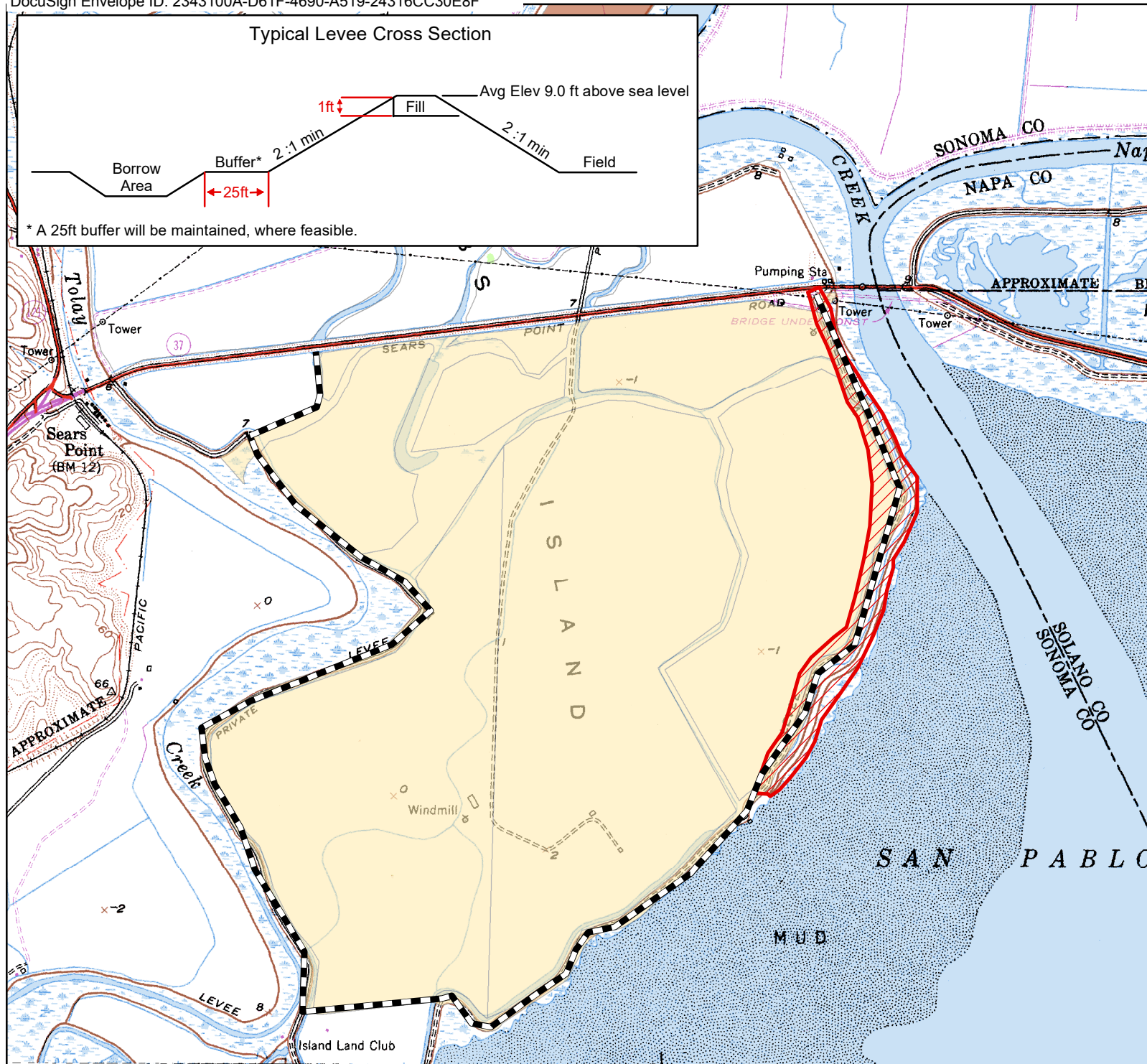


0 1,950 3,900 7,800 Feet

Typical Levee Cross Section



* A 25ft buffer will be maintained, where feasible.






Levee Maintenance

Exhibit O BCDC Permit M2018.026.00

**Permittee:
Vallejo Flood and
Wastewater District
(30-T)**

This map is for annual maintenance reporting to the permitting agencies.

-  Clapper Rail- Seasonal Restrictions (see permit conditions)
-  Landowner Parcel
-  Levee Maintenance Locations (approx.)

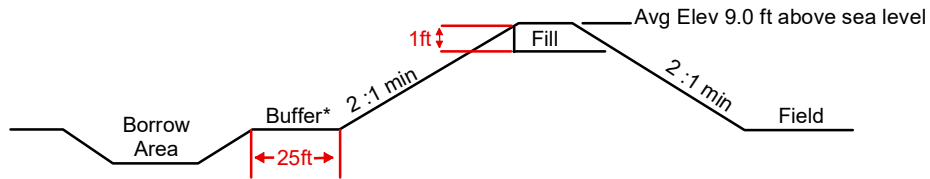
Oct 2021

Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet

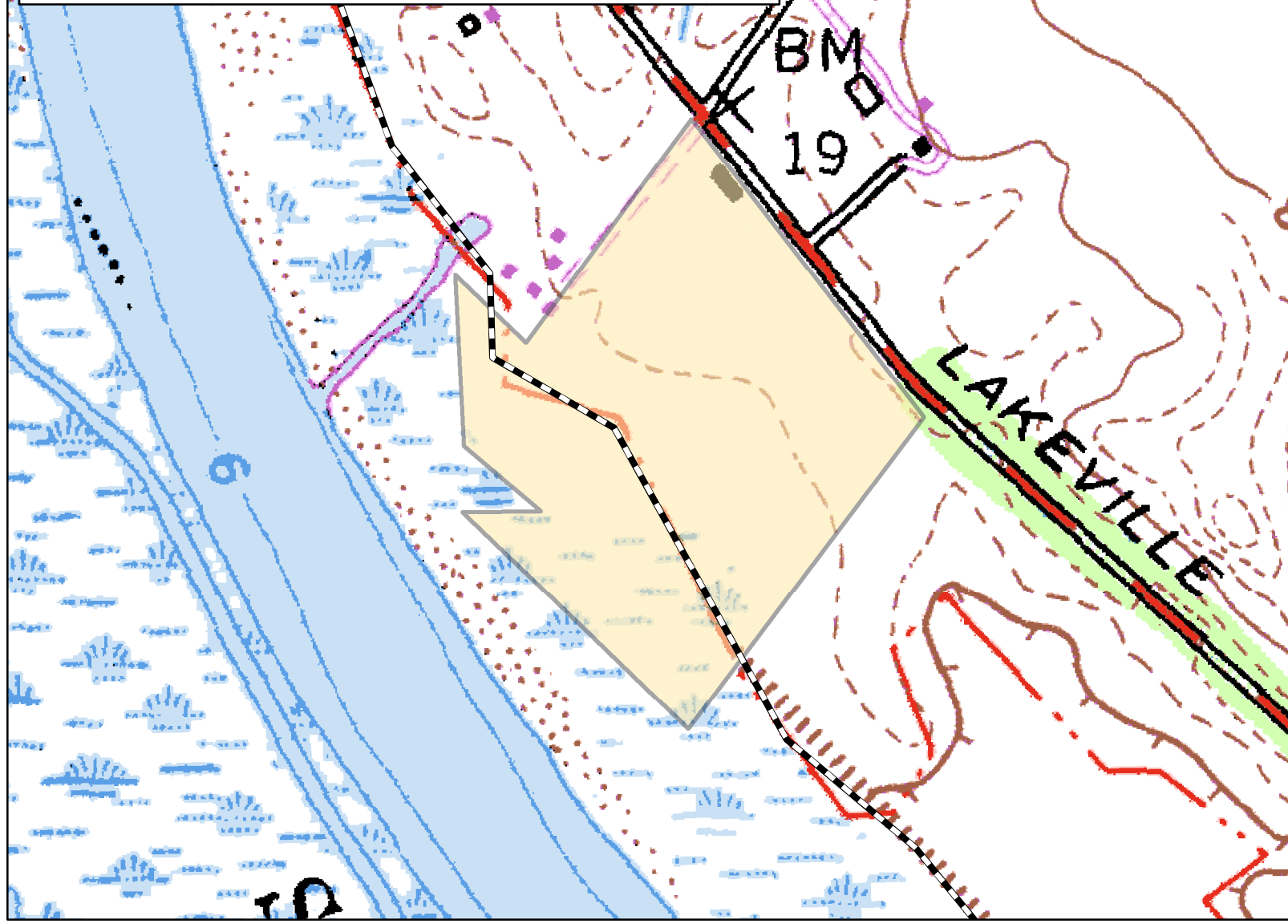
Base layer: USGS 7.5" Topographic
Quadrangle (Sears Point)



Typical Levee Cross Section



* A 25ft buffer will be maintained, where feasible.



0 550 1,100 2,200 Feet

Levee Maintenance

Exhibit P BCDC Permit M2018.026.00

Permittee: Tsang (9-T)

This map is for annual maintenance reporting to the permitting agencies.

-  Clapper Rail- Seasonal Restrictions (see permit conditions)
-  Landowner Parcel
-  Levee Locations (approximate)

Feb 2022

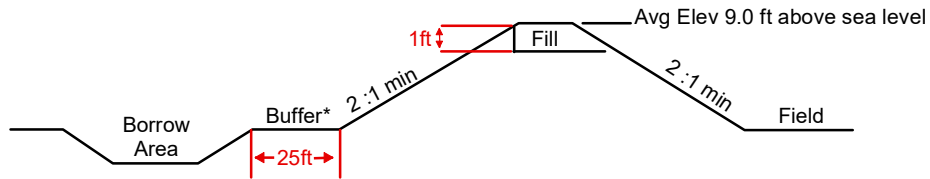
Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet



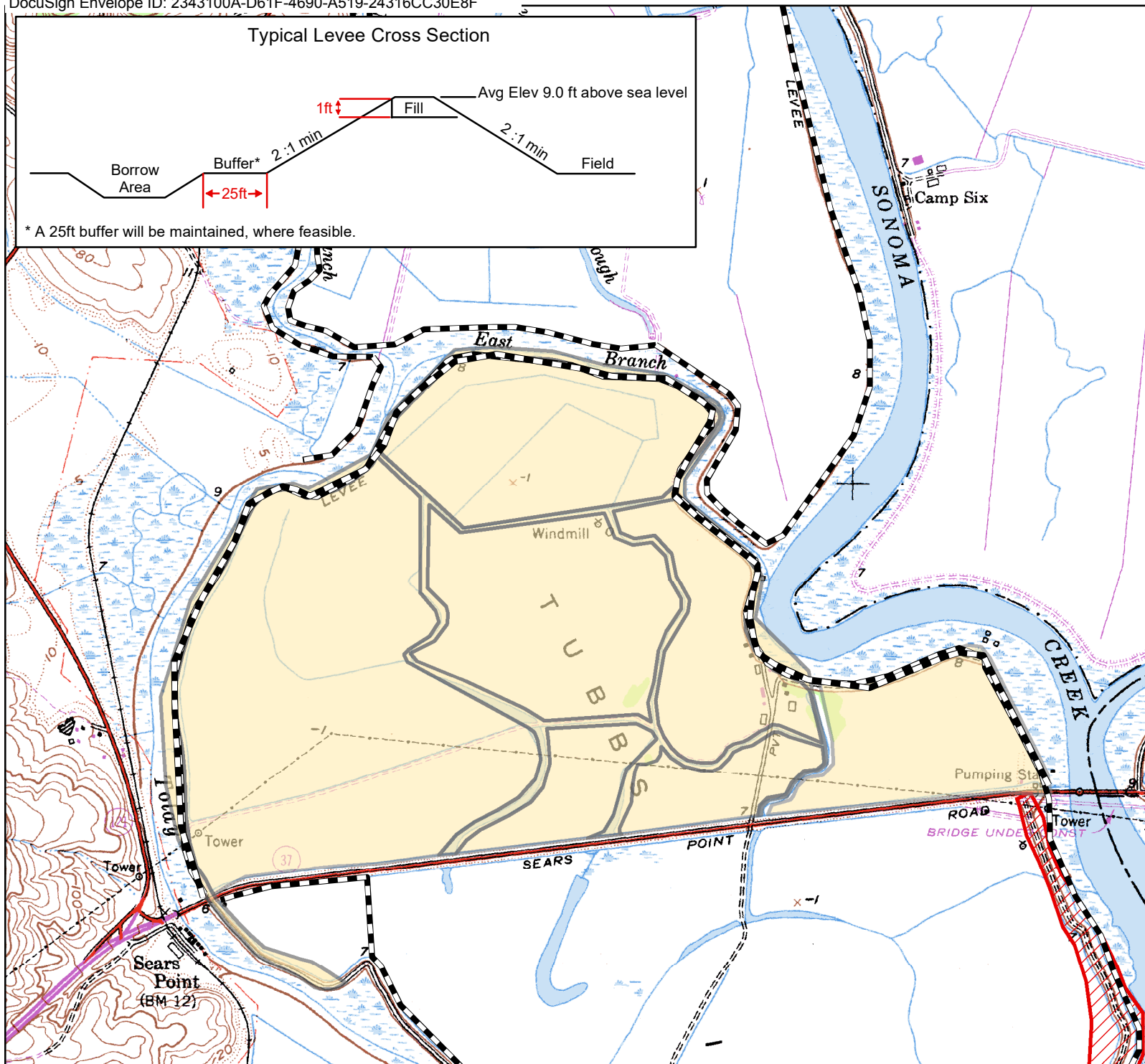
Base layer: USGS 7.5" Topographic
Quadrangle (Petaluma River)



Typical Levee Cross Section



* A 25ft buffer will be maintained, where feasible.



Levee Maintenance

Exhibit Q BCDC Permit M2018.026.00

Permittee: Kenwood BPSC Hunt Club, LLC (26-Y)

This map is for annual maintenance reporting to the permitting agencies.

-  Clapper Rail- Seasonal Restrictions (see permit conditions)
-  Landowner Parcel
-  Levee Locations (approximate)

Feb 2022

Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet

Base layer: USGS 7.5" Topographic
Quadrangle (Sears Point)






0 2,150 4,300 8,600 Feet

Levee Maintenance

Exhibit R BCDC Permit M2018.026.00

Permittee: Rees (28-M)

This map is for annual maintenance reporting to the permitting agencies.

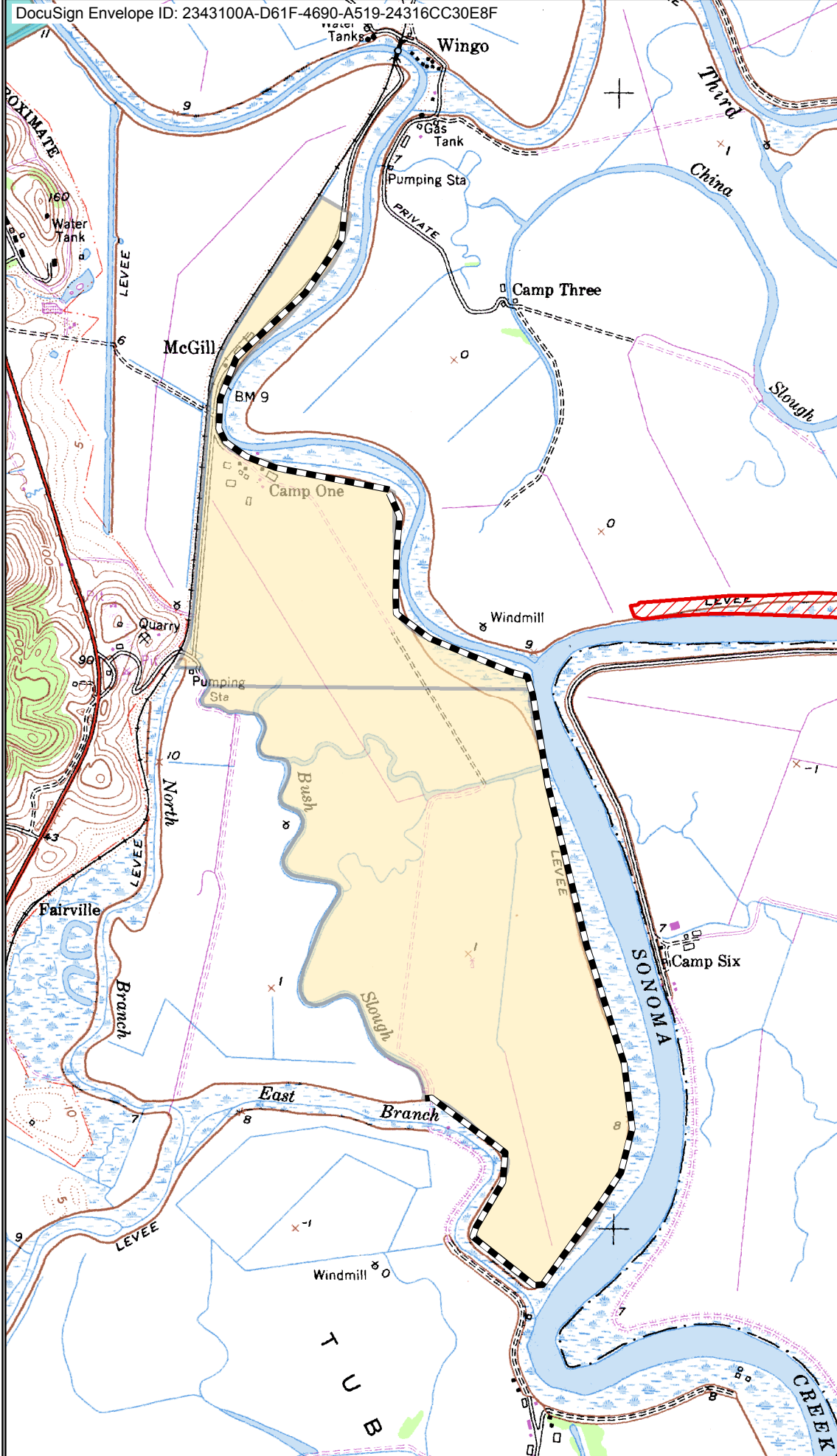
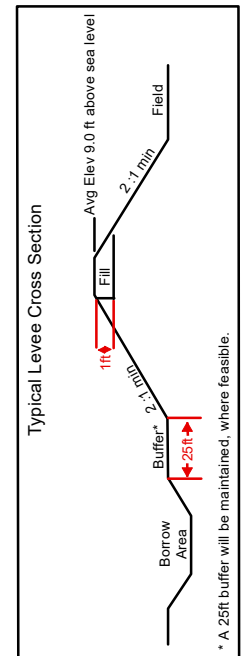
-  **Clapper Rail- Seasonal Restrictions**
(see permit conditions)
-  **Landowner Parcel**
-  **Potential Levee to be maintained**

Feb 2022

Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet



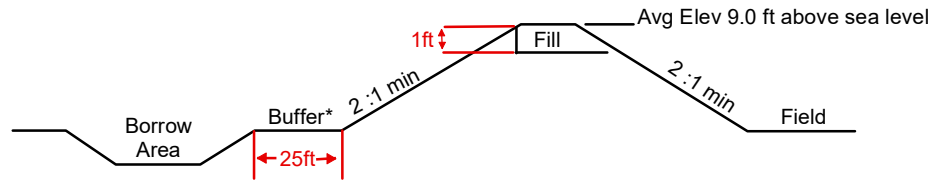
Base layer: USGS 7.5" Topographic
Quadrangle (Sears Point)



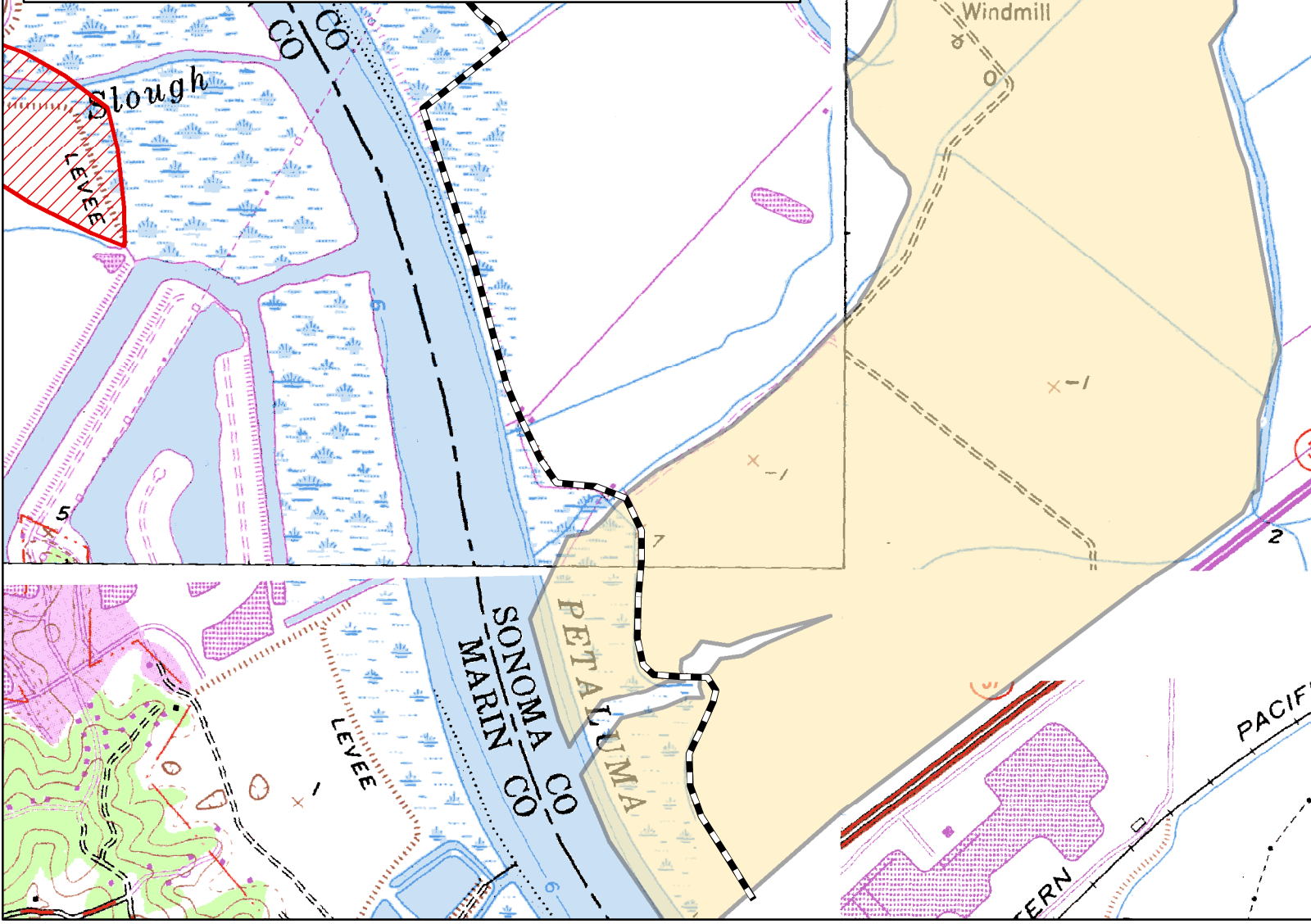
0 2,375 4,750 9,500 Feet



Typical Levee Cross Section



* A 25ft buffer will be maintained, where feasible.



Levee Maintenance

Exhibit S BCDC Permit M2018.026.00

Permittee: Carneros River Ranch (2-S)

This map is for annual maintenance reporting to the permitting agencies.

-  Clapper Rail- Seasonal Restrictions (see permit conditions)
-  Landowner Parcel
-  Levee Locations (approximate)

Feb 2022

Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet

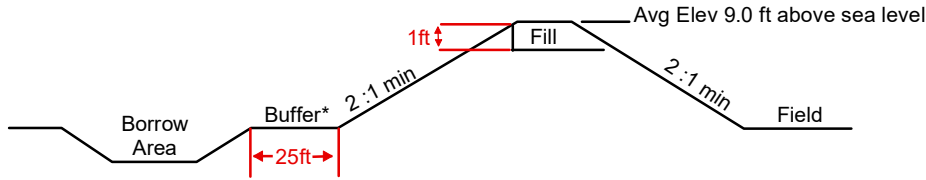


Base layer: USGS 7.5" Topographic
Quadrangle (Petaluma River, Sears
Point, Novato and Petaluma Point)



0 1,550 3,100 6,200 Feet

Typical Levee Cross Section



* A 25ft buffer will be maintained, where feasible.

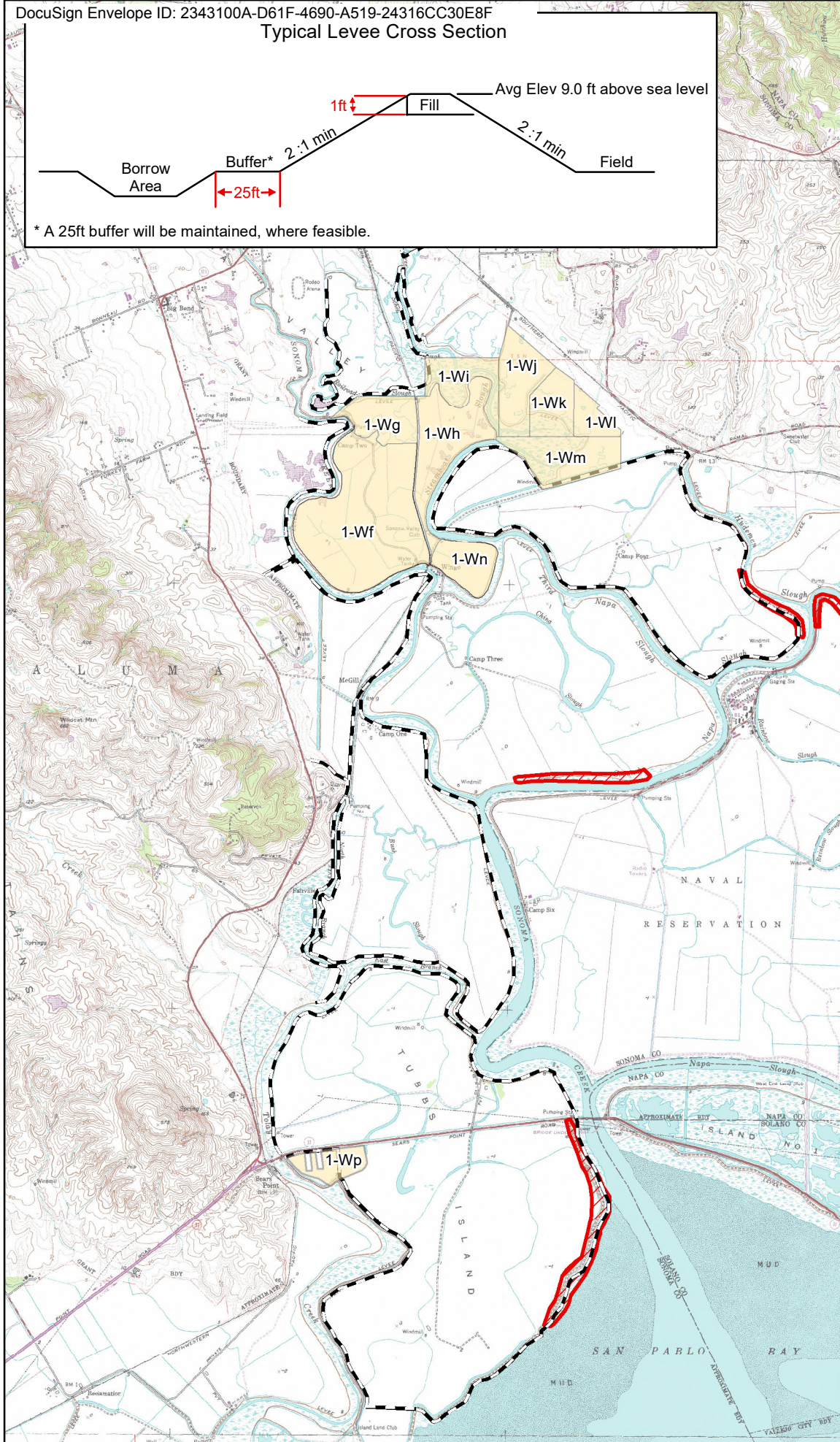
Levee

Maintenance

Exhibit T1 BCDC Permit M2018.026.00



**Permittee:
California Department
of Fish & Wildlife**

**Sonoma County
Parcels:
(1-Wf thru 1-Wn
and 1-Wq)**



This map is for annual maintenance reporting to the permitting agencies.

Clapper Rail- Seasonal Restrictions

-  (see permit conditions)
-  Landowner Parcel
-  Levee Locations (approximate)

Updated July 2022

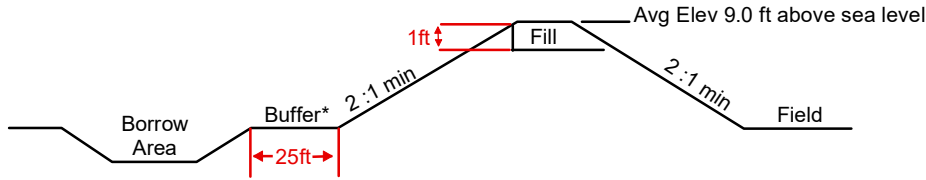
Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet



Base layer: USGS 7.5" Topographic
Quadrangle (Sears Point)



Typical Levee Cross Section



* A 25ft buffer will be maintained, where feasible.

Levee Maintenance

Exhibit T2 BCDC Permit M2018.026.00

**Permittee:
California Department
of Fish & Wildlife**

**Marin County Parcels:
1-Wb and 1-Wd**

This map is for annual maintenance reporting to the permitting agencies.

Clapper Rail- Seasonal Restrictions

-  (see permit conditions)
-  Landowner Parcel
-  Levee Locations (approximate)

Updated July 2022

Datum: North American 1983
Coordinate System: NAD 1983
State Plane California II FIPS
0402 Feet



Base layer: USGS 7.5" Topographic
Quadrangle (Sears Point)

