

**San Francisco Bay Regional Water Quality Control Board**

**ORDER No. R2-2019-0017  
NPDES No. CA0038873**

**WASTE DISCHARGE REQUIREMENTS FOR NUTRIENTS  
FROM MUNICIPAL WASTEWATER DISCHARGES TO SAN FRANCISCO BAY**

The following dischargers are subject to waste discharge requirements (WDRs) set forth in this Order, for the purpose of regulating nutrient discharges to San Francisco Bay<sup>1</sup> and its contiguous bay segments:

**Table 1. Discharger Information**

<b>Discharger</b>	<b>Facility Name</b>	<b>Facility Address</b>	<b>Minor/ Major</b>
American Canyon, City of	Wastewater Treatment and Reclamation Facility	151 Mezzetta Court American Canyon, CA 94503	Major
Benicia, City of	Benicia Wastewater Treatment Plant	614 East Fifth Street Benicia, CA 94510	Major
Burlingame, City of	Burlingame Wastewater Treatment Plant	1103 Airport Boulevard Burlingame, CA 94010	Major
Central Contra Costa Sanitary District	Central Contra Costa Sanitary District Wastewater Treatment Plant	5019 Imhoff Place Martinez, CA 94553	Major
Central Marin Sanitation Agency	Central Marin Sanitation Agency Wastewater Treatment Plant	1301 Andersen Drive San Rafael, CA 94901	Major
Crockett Community Services District	Port Costa Wastewater Treatment Plant	End of Canyon Lake Drive Port Costa, CA 94569	Minor
Delta Diablo	Delta Diablo Wastewater Treatment Plant	2500 Pittsburg-Antioch Highway Antioch, CA 94509	Major
East Bay Dischargers Authority (EBDA); Cities of Hayward and San Leandro; Oro Loma Sanitary District; Castro Valley Sanitary District; Union Sanitary District; East Bay Regional Parks District; Livermore-Amador Valley Water Management Agency; Dublin San Ramon Services District; and City of Livermore	EBDA Common Outfall	EBDA Common Outfall 14150 Monarch Bay Drive San Leandro, CA 94577	Major
	Hayward Water Pollution Control Facility		
	San Leandro Water Pollution Control Plant		
	Oro Loma/Castro Valley Sanitary Districts Water Pollution Control Plant		
	Raymond A. Boege Alvarado Wastewater Treatment Plant		
	Hayward Marsh		
	Livermore-Amador Valley Water Management Agency Export and Storage Facilities		
	Dublin San Ramon Services District Wastewater Treatment Plant		

<sup>1</sup> San Francisco Bay consists of the Sacramento/San Joaquin River Delta, Suisun Bay, Carquinez Strait, San Pablo Bay, Central San Francisco Bay, Richardson Bay, Lower San Francisco Bay, and South San Francisco Bay.

<b>Discharger</b>	<b>Facility Name</b>	<b>Facility Address</b>	<b>Minor/ Major</b>
	City of Livermore Water Reclamation Plant		
East Bay Municipal Utility District	East Bay Municipal Utility District, Special District No. 1 Wastewater Treatment Plant	2020 Wake Avenue Oakland, CA 94607	Major
Fairfield-Suisun Sewer District	Fairfield-Suisun Wastewater Treatment Plant	1010 Chadbourne Road Fairfield, CA 94534	Major
Las Gallinas Valley Sanitary District	Las Gallinas Valley Sanitary District Sewage Treatment Plant	300 Smith Ranch Road San Rafael, CA 94903	Major
Marin County (Paradise Cove), Sanitary District No. 5 of	Paradise Cove Treatment Plant	3700 Paradise Drive Tiburon, CA 94920	Minor
Marin County (Tiburon), Sanitary District No. 5 of	Wastewater Treatment Plant	2001 Paradise Drive Tiburon, CA 94920	Minor
Millbrae, City of	Water Pollution Control Plant	400 East Millbrae Avenue Millbrae, CA 94030	Major
Mt. View Sanitary District	Mt. View Sanitary District Wastewater Treatment Plant	3800 Arthur Road Martinez, CA 94553	Major
Napa Sanitation District	Soscol Water Recycling Facility	1515 Soscol Ferry Road Napa, CA 94558	Major
Novato Sanitary District	Novato Sanitary District Wastewater Treatment Plant	500 Davidson Street Novato, CA 94945	Major
Palo Alto, City of	Palo Alto Regional Water Quality Control Plant	2501 Embarcadero Way Palo Alto, CA 94303	Major
Petaluma, City of	Municipal Wastewater Treatment Plant	3890 Cypress Drive Petaluma, CA 94954	Major
Pinole, City of	Pinole-Hercules Water Pollution Control Plant	11 Tennent Avenue Pinole, CA, 94564	Major
Rodeo Sanitary District	Rodeo Sanitary District Water Pollution Control Facility	800 San Pablo Avenue Rodeo, CA 94572	Major
San Francisco (San Francisco International Airport), City and County of	Mel Leong Treatment Plant, Sanitary Plant	Bldg. 924 Clearwater Drive San Francisco, CA 94128	Major
San Francisco (Southeast Plant), City and County of	Southeast Water Pollution Control Plant	750 Phelps Street San Francisco, CA 94124	Major
San Jose and Santa Clara, Cities of	San Jose/Santa Clara Water Pollution Control Plant	700 Los Esteros Road San Jose, CA 95134	Major
San Mateo, City of	City of San Mateo Wastewater Treatment Plant	2050 Detroit Drive San Mateo, CA 94404	Major
Sausalito-Marín City Sanitary District	Sausalito-Marín City Sanitary District Wastewater Treatment Plant	1 East Road Sausalito, CA 94965	Major
Sewerage Agency of Southern Marin	Sewerage Agency of Southern Marin Wastewater Treatment Plant	450 Sycamore Avenue Mill Valley, CA 94941	Major
Silicon Valley Clean Water	Silicon Valley Clean Water Wastewater Treatment Plant	1400 Radio Road Redwood City, CA 94065	Major
Sonoma Valley County Sanitation District	Municipal Wastewater Treatment Plant	22675 8th Street East Sonoma, CA 95476	Major
South San Francisco and San Bruno, Cities of	South San Francisco and San Bruno Water Quality Control Plant	195 Belle Air Road South San Francisco, CA 94080	Major
Sunnyvale, City of	Sunnyvale Water Pollution Control Plant	1444 Borregas Avenue, Sunnyvale, CA 94089	Major
U.S. Department of Navy (Treasure Island)	Treasure Island Wastewater Treatment Plant	1220 Avenue M San Francisco, CA 94130	Major

<b>Discharger</b>	<b>Facility Name</b>	<b>Facility Address</b>	<b>Minor/ Major</b>
Vallejo Flood and Wastewater District	Vallejo Flood and Wastewater District Wastewater Treatment Plant	450 Ryder Street Vallejo, CA 94590	Major
West County Agency; West County Wastewater District; City of Richmond; and Richmond Municipal Sewer District	West County Agency Combined Outfall	2910 Hilltop Drive Richmond, CA 94806	Major
	West County Wastewater District Treatment Plant		
	Richmond Municipal Sewer District Water Pollution Control Plant		

**Table 2. Discharge Locations**

Discharge locations are specified in the individual NPDES permits listed in Attachment B.
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**Table 3. Administrative Information**

This Order was adopted on:	May 8, 2019
This Order shall become effective on:	July 1, 2019
This Order shall expire on:	June 30, 2024

I, Michael Montgomery, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of the Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on the date indicated above.

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Michael Montgomery

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## I. FACILITY INFORMATION

Information describing the facilities subject to this Order is summarized in Tables 1 and in Fact Sheet (Attachment F) sections I and II.

## II. FINDINGS

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

- A. Legal Authorities.** This Order serves as WDRs pursuant to California Water Code article 4, chapter 4, division 7 (commencing with § 13260). This Order is also issued pursuant to federal Clean Water Act (CWA) section 402 and implementing regulations adopted by U.S. EPA and Water Code chapter 5.5, division 7 (commencing with § 13370). It shall serve as a National Pollutant Discharge Elimination System (NPDES) permit for point source discharges of nutrients from the Discharger facilities listed in Attachment B to surface waters.
- B. Background and Rationale for Requirements.** The Regional Water Board developed the requirements in this Order based on information the Dischargers submitted, information obtained through monitoring and reporting programs, and other available information. The Fact Sheet contains background information and rationales for this Order's requirements and is hereby incorporated into and constitutes findings for this Order. Attachments B, C, and E are also incorporated into this Order.
- C. Notification of Interested Parties.** The Regional Water Board notified the Dischargers and interested agencies and persons of its intent to prescribe these WDRs and provided an opportunity to submit written comments and recommendations. The Fact Sheet provides details regarding the notification.
- D. Consideration of Public Comment.** The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharges. The Fact Sheet provides details regarding the public hearing.

**THEREFORE, IT IS HEREBY ORDERED** that Order No. R2-2014-0014 (previous order) is rescinded upon the effective date of this Order, except for enforcement purposes, and, in order to meet the provisions of Water Code division 7 (commencing with § 13000) and regulations adopted thereunder and the provisions of the CWA and regulations and guidelines adopted thereunder, the Dischargers shall comply with the requirements in this Order. This action in no way prevents the Regional Water Board from taking enforcement action for past violations of the previous order.

## III. DISCHARGE PROHIBITIONS

This Order does not establish additional discharge prohibitions beyond those in the individual NPDES permits listed in Attachment B.

## IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

This Order does not establish additional effluent limitations and discharge specifications beyond those in the individual NPDES permits listed in Attachment B.

## V. RECEIVING WATER LIMITATIONS

This Order retains the nutrients receiving water limitations specified in the individual NPDES permits listed in Attachment B.

## VI. PROVISIONS

### A. Standard Provisions

The Dischargers shall comply with the standard provisions in Attachments D and G (as amended) of their individual NPDES permits listed in Attachment B of this Order.

### B. Monitoring and Reporting

The Dischargers shall comply with the Monitoring and Reporting Program (Attachment E) in this Order, the monitoring and reporting provisions of their individual NPDES permits listed in Attachment B of this Order, and any future revisions thereto. The Dischargers shall also comply with applicable sampling and reporting requirements in Attachments D and G (as amended) of their individual NPDES permits listed in Attachment B of this Order.

### C. Special Provisions

#### 1. Reopener Provisions

The Regional Water Board may modify or reopen this Order prior to its expiration date in any of the following circumstances as allowed by law:

- a. If the discharges governed by this Order have or will have a reasonable potential to cause or contribute to adverse impacts on water quality or beneficial uses of the receiving waters;
- b. If new or revised water quality objectives or total maximum daily loads (TMDLs) come into effect for San Francisco Bay and contiguous water bodies (whether statewide, regional, or site-specific);
- c. If State Water Board precedential decisions, new policies, new laws, or new regulations are adopted;
- d. If an administrative or judicial decision on a separate NPDES permit or WDRs addresses requirements similar to those in this Order; or
- e. As otherwise authorized by law.

#### 2. Regional Evaluation of Potential Nutrient Discharge Reduction by Natural Systems

The major Dischargers listed in Table 1 shall, individually or in collaboration with other regional stakeholders, evaluate options and develop planning-level costs for nutrient discharge reduction by natural systems (e.g., wetlands and horizontal levees) as described below. These requirements do not apply to the minor Dischargers listed in Table 1.

- a. **Scoping Plan.** By December 1, 2019, the Dischargers shall, individually or in collaboration with regional stakeholders, submit a Scoping Plan describing the level of

work proposed to conduct the evaluation. The Scoping Plan shall include, but is not limited to, the level of work to complete the following for each Discharger's facility and subembayment:

- Identification of sites, if any, for potential wetlands treatment systems;
- Identification of sites, if any, for potential wetlands creation or enhancement;
- Identification of sites, if any, for potential horizontal levee creation; and
- Identification of any of the above sites that are associated with a defined Operational Landscape Unit<sup>1</sup>.

The Scoping Plan shall also include a schedule to complete, within one year of submitting the Scoping Plan, the identification of all potential sites that could use natural systems.

**b. Evaluation Plan and Implementation.** If a Discharger identifies potential sites for natural systems as described in the Scoping Plan, it shall proceed with an evaluation for its facility and subembayment. By July 1, 2020, the Discharger shall, individually or in collaboration with regional stakeholders, submit an Evaluation Plan and schedule describing the methods and means for conducting the evaluation. The evaluation shall include, but not be limited to, the following tasks:

- Description of all treatment plants, treatment plant processes, and service area;
- Estimation of nitrogen (total inorganic nitrogen) and phosphorous (total phosphorous) discharge reductions associated with each project or associated Operational Landscape Unit;
- Identification of ancillary adverse effects and ancillary benefits from each project (e.g., removal of emerging contaminants, creation of habitat, or protection against sea level rise) or associated Operational Landscape Unit;
- Assessment of the feasibility, efficacy, reliability, and cost-effectiveness of each project; and
- Identification of potential challenges to implementing each project (e.g., regulatory barriers).

The Dischargers shall start implementing the Evaluation Plan tasks for each identified site within 45 days of submittal.

**c. Status Reports.** By July 1, 2021, and again by July 1, 2022, the Dischargers shall submit, or cause to be submitted, a status report describing the tasks completed, preliminary findings, and tasks yet to be completed for each site identified in the Scoping Plan, highlighting any adaptive changes made to the Evaluation Plan submitted in accordance with task b, above.

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<sup>1</sup> Operational Landscape Units are delineated areas that provide specific ecosystem functions and services within the natural and built environment.  
Definition by San Francisco Estuary Institute and SPUR, Operational Landscape Units for San Francisco Bay Approach Document, Revised January 2018, page 3.

- d. Final Status Report.** By July 1, 2023, the Dischargers shall submit, or cause to be submitted, a Final Status Report describing the tasks completed and findings for each site identified in the Scoping Plan. The Final Status Report shall also identify any remaining tasks or barriers for implementing an identified project.

### 3. Regional Evaluation of Potential Nutrient Discharge Reduction by Water Recycling

The major Dischargers listed in Table 1 shall, individually or in collaboration with other regional stakeholders, evaluate options and develop planning-level costs for nutrient discharge reduction by water recycling as described below. These requirements do not apply to the minor Dischargers listed in Table 1.

- a. Scoping Plan.** By December 1, 2019, the Dischargers shall, individually or in collaboration with regional stakeholders, submit a Scoping Plan describing the level of work proposed to conduct the evaluation. The Scoping Plan shall include, but is not limited to, the level of work to identify opportunities for potential wastewater recycling (e.g., for irrigation) for each Discharger's facility and subembayment.
- b. Evaluation Plan and Implementation.** If a Discharger identifies opportunities, it shall proceed with an evaluation for its facility and subembayment. By July 1, 2020, the Discharger shall, individually or in collaboration with regional stakeholders, submit an Evaluation Plan and schedule describing the methods and means for conducting the evaluation for the sites that are identified in the Scoping Plan. The evaluation shall include, but not be limited to, the following tasks:
- Description of all treatment plants, treatment plant processes, and service area;
  - Estimation of nitrogen (total inorganic nitrogen) and phosphorous (total phosphorous) discharge reductions associated with each recycled water opportunity;
  - Identification of ancillary adverse effects and ancillary benefits from each project (e.g., reduction of natural water resource diversion, reduction of potable water demand, or reduction of chemical fertilizer reliance);
  - Assessment of the feasibility, efficacy, reliability, and cost-effectiveness of each opportunity; and
  - Identification of potential challenges to implementing each opportunity (e.g., regulatory barriers).

The Dischargers shall start implementing the Evaluation Plan tasks for each identified site within 45 days of submittal.

- c. Status Reports.** By July 1, 2021, and again by July 1, 2022, the Dischargers shall submit, or cause to be submitted, a status report describing the tasks completed, preliminary findings, and tasks yet to be completed for each Discharger that identified water recycling opportunities, highlighting any adaptive changes made to the Evaluation Plan submitted in accordance with task b, above. Status reports may be combined with status reports for Provision VI.C.2, above.



- d. Final Report.** By July 1, 2023, the Dischargers shall submit, or cause to be submitted, a Final Report describing the results of their evaluations.

#### **4. Monitoring, Modeling, and Subembayment Studies**

Each Discharger listed in Table 1 shall conduct, or cause to be conducted, studies to address the potential adverse impacts of nutrients on San Francisco Bay beneficial uses. The studies shall include the efforts described below:

- a. Support Receiving Water Monitoring for Nutrients.** The Dischargers shall, individually or in collaboration with other regional stakeholders, support receiving water monitoring for nutrients. These efforts shall supplement the monitoring the Regional Monitoring Program and others already undertake, by providing the following:
- i.** A network of nutrient monitoring locations to track nutrient concentrations, dissolved oxygen, and phytoplankton biomass in San Francisco Bay;
  - ii.** Adequate data to support modeling of nutrient fate and transport in San Francisco Bay; and
  - iii.** Studies furthering the understanding of harmful algae bloom development, including, at a minimum, monitoring for algae species and toxins.
- b. Support Science Plan Development and Implementation.** The Dischargers shall, individually or in collaboration with other regional stakeholders, support further development, updating, and implementation of the science plan to implement the San Francisco Bay Nutrient Management Strategy and support consideration of future management actions, including the development of nutrient water quality objectives. The science plan shall include studies necessary for San Francisco Bay as a whole as well as address issues identified for specific subembayments. The modeling described in task VI.C.4.a, above, shall inform the science plan and any future management actions.

By February 1, 2020, the Dischargers shall submit, or cause to be submitted, an updated science plan and schedule for proposed studies, and annually update and revise the plan and schedule as necessary by February 1 of each subsequent year.

**ATTACHMENT B – INDIVIDUAL NPDES PERMIT AND ORDER NUMBERS**

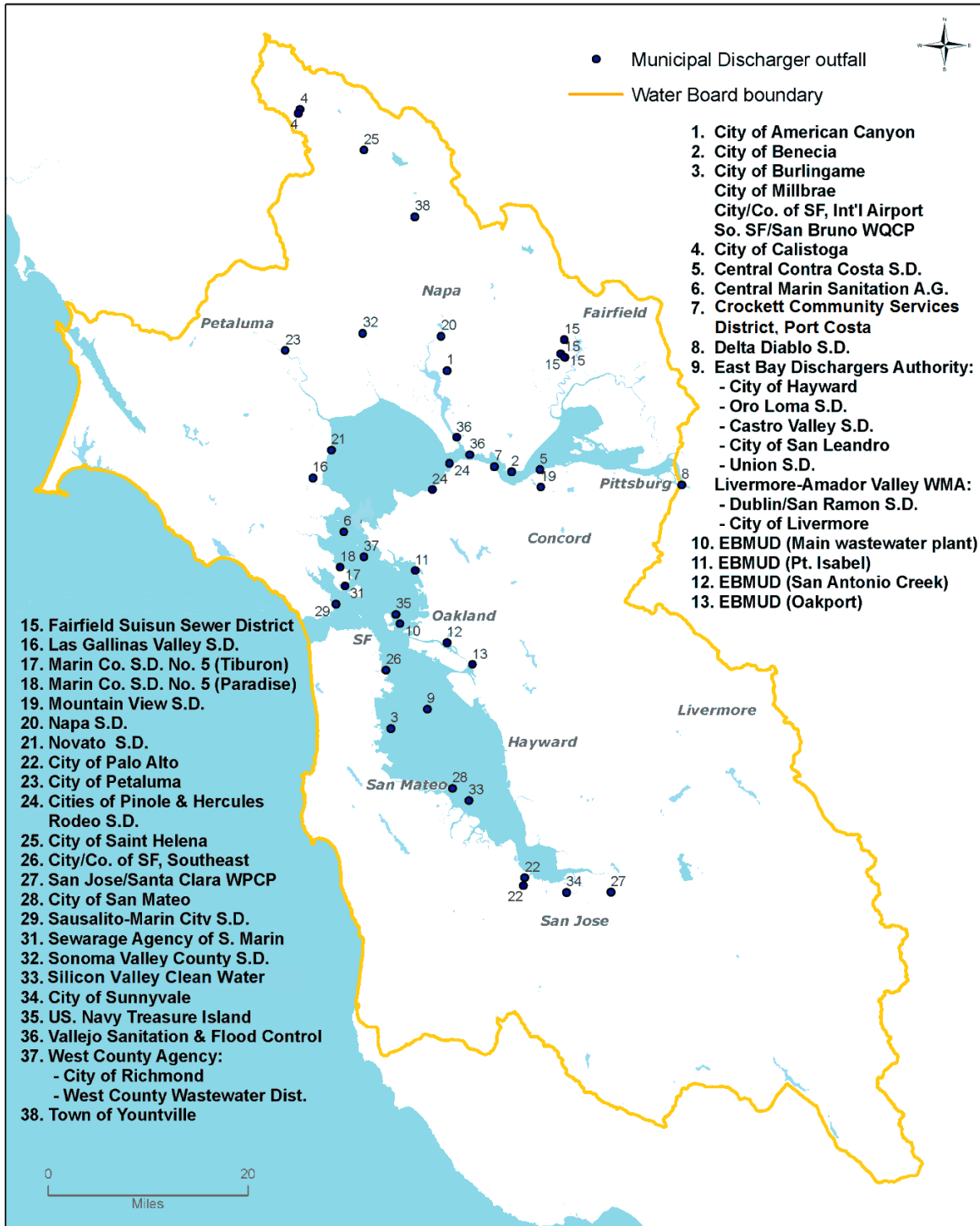
Discharger	NPDES Permit No.	Existing Order No. <sup>[1]</sup>	Existing Order Adoption Date	Existing Order Expiration Date
American Canyon, City of	CA0038768	R2-2017-0008	4/12/2017	5/31/2022
Benicia, City of	CA0038091	R2-2014-0023	6/11/2014	7/31/2019
Burlingame, City of	CA0037788	R2-2018-0024	6/13/2018	7/31/2023
Central Contra Costa Sanitary District	CA0037648	R2-2017-0009	4/12/2017	5/31/2022
Central Marin Sanitation Agency	CA0038628	R2-2018-0003	1/10/2018	2/28/2023
Crockett Community Services District, Port Costa Sanitary Dept.	CA0037885	R2-2018-0053	12/12/2018	1/31/2024
Delta Diablo Sanitation District	CA0038547	R2-2014-0030	8/13/2014	9/30/2019
East Bay Dischargers Authority	CA0037869	R2-2017-0016	5/10/2017	6/30/2022
Oro Loma Sanitary District Castro Valley Sanitary District	CA0037559	R2-2018-0010	3/14/2018	12/31/2023
Union S.D. Wet Weather Outfall	CA0038733	R2-2015-0045	11/18/2015	12/31/2020
East Bay Regional Parks District Union S.D. Hayward Marsh	CA0038636	R2-2011-0058	9/14/2011	10/31/2016
Dublin San Ramon Services District	CA0037613	R2-2017-0017	5/10/2017	6/30/2022
City of Livermore	CA0038008	R2-2017-0018	5/10/2017	6/30/2022
LAVWMA Wet Weather Outfall	CA0038679	R2-2016-0015	4/13/2016	5/31/2021
East Bay Municipal Utility District	CA0037702	R2-2015-0018	5/13/2015	6/30/2020
Fairfield-Suisun Sewer District	CA0038024	R2-2015-0013	3/11/2015	4/30/2020
Las Gallinas Valley Sanitary District	CA0037851	R2-2015-0021	5/13/2015	6/30/2020
Marin County (Paradise Cove), Sanitary District No. 5 of	CA0037427	R2-2016-0042	10/12/2016	11/30/2021
Marin County (Tiburon), Sanitary District No. 5 of	CA0037753	R2-2018-0038	8/8/2018	9/30/2023
Millbrae, City of	CA0037532	R2-2013-0037	12/11/2013	1/31/2019
Mt. View Sanitary District	CA0037770	R2-2016-0023	5/11/2016	6/30/2021
Napa Sanitation District	CA0037575	R2-2016-0035	7/13/2016	8/31/2021
Novato Sanitary District	CA0037958	R2-2015-0034	7/8/2015	8/31/2020
Palo Alto, City of	CA0037834	R2-2014-0024	6/11/2014	7/31/2019
Petaluma, City of	CA0037810	R2-2016-0014	4/13/2016	5/31/2021
Pinole, City of	CA0037796	R2-2018-0004	2/14/2018	3/31/2023
Rodeo Sanitary District	CA0037826	R2-2017-0034	9/13/2017	10/31/2022
San Francisco (San Francisco International Airport), City and County of	CA0038318	R2-2018-0045	10/10/2018	11/30/2023
San Francisco (Southeast Plant), City and County of	CA0037664	R2-2013-0029	8/14/2013	9/30/2018
San Jose and Santa Clara, Cities of	CA0037842	R2-2014-0034	9/10/2014	10/31/2019
San Mateo, City of	CA0037541	R2-2018-0016	5/9/2018	6/30/2023
Sausalito-Marín City Sanitary District	CA0038067	R2-2018-0025	6/13/2018	7/31/2023
Sewerage Agency of Southern Marin	CA0037711	R2-2018-0039	8/8/2018	9/30/2023
Silicon Valley Clean Water	CA0038369	R2-2018-0005	2/14/2018	3/31/2023
Sonoma Valley County Sanitary District	CA0037800	R2-2014-0020	5/14/2014	6/30/2019
South San Francisco and San Bruno, Cities of	CA0038130	R2-2014-0012	4/9/2014	5/31/2019
Sunnyvale, City of	CA0037621	R2-2014-0035	9/10/2014	10/31/2019
U.S. Department of Navy, Treasure Island	CA0110116	R2-2015-0004	1/21/2015	3/31/2020
Vallejo Flood and Wastewater District	CA0037699	R2-2017-0035	9/13/2017	10/31/2022
West County Agency; West County Wastewater District; City of Richmond; and Richmond Municipal Sewer District	CA0038539	R2-2019-0003	5/8/2013	6/30/2018

Footnote:

<sup>[1]</sup> The orders shown are for the primary permit reissuance and do not include permit amendments.

**ATTACHMENT C – MAP OF MUNICIPAL DISCHARGE LOCATIONS**

**Municipal Discharger outfall locations**



## **ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP)**

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## ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP)

Clean Water Act section 308 and 40 C.F.R. sections 122.41(h), 122.41(j)-(l), 122.44(i), and 122.48 require that all NPDES permits specify monitoring and reporting requirements. Water Code sections 13267 and 13383 also authorize the Regional Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. This MRP establishes monitoring, reporting, and recordkeeping requirements that implement federal and State laws and regulations.

### I. GENERAL MONITORING PROVISIONS

- A. Dischargers shall comply with this MRP. The Executive Officer may amend this MRP pursuant to 40 C.F.R. sections 122.62, 122.63, and 124.5. If any discrepancies exist between this MRP and the “Regional Standard Provisions, and Monitoring and Reporting Requirements (Supplement to Attachment D) for NPDES Wastewater Discharge Permits” (Attachment G) in the individual permits listed in Attachment B of this Order, this MRP shall prevail.
- B. Sampling is required during the entire year when discharging. Dischargers shall conduct all monitoring in accordance with Attachment D section III, as supplemented by Attachment G, of their individual permits listed in Attachment B of this Order. Equivalent test methods must be more sensitive than those specified in 40 C.F.R. section 136 and must be specified in this permit.

### II. MONITORING LOCATIONS

The Dischargers shall establish the following monitoring locations to characterize loads and comply with other requirements in this Order:

**Table E-1. Monitoring Locations**

Sampling Location Type	Monitoring Location Name	Monitoring Location Description
Influent	Individual monitoring locations for influent wastewater (normally Monitoring Location INF-001) are specified in the MRPs of Dischargers’ individual NPDES permits as listed in Attachment B of this Order. <sup>[1]</sup>	Individual monitoring location descriptions are provided in the MRPs of Dischargers’ individual NPDES permits as listed in Attachment B of this Order.
Effluent	Individual monitoring locations for discharges of treated wastewater (normally Monitoring Location EFF-001) are specified in the MRPs of Dischargers’ individual NPDES permits as listed in Attachment B of this Order. <sup>[2]</sup>	Individual monitoring location descriptions are provided in the MRPs of Dischargers’ individual NPDES permits as listed in Attachment B of this Order.

Footnotes:

- <sup>[1]</sup> For the City and County of San Francisco (Southeast Plant), influent monitoring shall occur only during dry weather (i.e., not during wet weather, as defined in its individual NPDES permit as listed in Attachment B).
- <sup>[2]</sup> For the City and County of San Francisco (Southeast Plant), the monitoring location shall be Monitoring Location EFF-001A. For the Fairfield-Suisun Sewer District, the monitoring location shall be Monitoring Location E-001D. For the Hayward Marsh, the monitoring locations shall be C-2AE and C-2BE.

### III. INFLUENT AND EFFLUENT MONITORING REQUIREMENTS

The Dischargers shall monitor their individual treatment plant influent and effluent for nutrients as shown in Tables E-2, E-3, and E-4, below. Influent monitoring is not required for Dischargers with a facility design flow of less than or equal to 10 MGD (see Fact Sheet Table 1).

**Table E-2. Influent Monitoring**

Parameter <sup>[1]</sup>	Units	Sample Type <sup>[2]</sup>
Ammonia, Total	mg/L and kg/day as N	C-24
Total Kjeldahl Nitrogen	mg/L and kg/day as N	C-24
Nitrate-Nitrite <sup>[3]</sup>	mg/L and kg/day as N	C-24
Phosphorus, Total	mg/L and kg/day as P	C-24

Unit Abbreviations:

mg/L = milligrams per liter  
kg/day as N = kilograms per day as nitrogen  
kg/day as P = kilograms per day as phosphorus

Sampling Types and Frequencies:

C-24 = 24-hour composite

Footnotes:

- <sup>[1]</sup> Influent samples shall be collected concurrently with effluent samples.
- <sup>[2]</sup> 24-hour composites may be made up of four discrete grab samples collected over a 24-hour period and volumetrically or mathematically flow-weighted. During a 24-hour period, the samples may be collected only when the plant is staffed, if necessary.
- <sup>[3]</sup> If, after two years, all nitrate-nitrite concentrations a Discharger measures are below 2.0 mg/L, the Discharger may discontinue influent monitoring for this parameter.

**Table E-3. Effluent Monitoring**

Parameter	Units	Sample Type <sup>[1]</sup>
Ammonia, Total	mg/L and kg/day as N	C-24
Nitrate-Nitrite	mg/L and kg/day as N	C-24
Inorganic Nitrogen, Total <sup>[2]</sup>	mg/L and kg/day as N	Calculated
Phosphorus, Total	mg/L and kg/day as P	C-24

Unit Abbreviations:

mg/L = milligrams per liter  
kg/day as N = kilograms per day as nitrogen  
kg/day as P = kilograms per day as phosphorus

Sampling Types and Frequencies:

C-24 = 24-hour composite

Footnote:

- <sup>[1]</sup> 24-hour composites may be made up of four discrete grab samples collected over a 24-hour period and volumetrically or mathematically flow-weighted. During a 24-hour period, the samples may be collected only when the plant is staffed, if necessary.
- <sup>[2]</sup> Total Inorganic Nitrogen = Total Ammonia + Nitrate-Nitrite. Dischargers may use approved analytical techniques that require filtration for analyte measurements that comprise Total Inorganic Nitrogen.

**Table E-4. Minimum Sampling Frequencies**

Discharger Size	Minimum Sampling Frequency <sup>[1], [2], [3], [4], [5]</sup>
Major Dischargers (design flow $\geq$ 10 MGD)	Twice per month for effluent Once per quarter for influent
Major Dischargers (design flow < 10 MGD)	Once per month for effluent
Minor Dischargers (design flow < 1.0 MGD)	Twice per year for effluent

Unit Abbreviations:

MGD = million gallons per day

Footnotes:

- <sup>[1]</sup> Samples need only to be collected when discharging (i.e., seasonal Dischargers shall collect samples only during the discharge season).
- <sup>[2]</sup> Municipal Dischargers that discharge through the EBDA Common Outfall shall monitor their individual wastewater treatment plant influent and effluent at least once per quarter.
- <sup>[3]</sup> Municipal Dischargers that discharge through the West County Agency Combined Outfall shall monitor their individual wastewater treatment plant influent and effluent at least once per quarter.
- <sup>[4]</sup> The East Bay Regional Parks District is not required to monitor influent and shall monitor effluent once per quarter.
- <sup>[5]</sup> The Livermore-Amador Valley Water Management Agency is not required to monitor influent or effluent, and the Union Sanitary District is not required to monitor effluent from its wet weather outfall.

## IV. REPORTING REQUIREMENTS

### A. General Monitoring and Reporting Requirements

The Dischargers shall comply with all Standard Provisions (Attachments D and G of the Dischargers' individual NPDES permits) related to monitoring, reporting, and recordkeeping.

### B. Individual Reporting in Self-Monitoring Reports (SMRs)

#### 1. Reporting Nutrients Data

- a. Routine SMRs.** Dischargers shall submit nutrients data collected to comply with this Order in the routine monthly or quarterly SMRs required in each Discharger's individual NPDES permit. Each SMR shall include all new nutrients monitoring results obtained since the last SMR was submitted. If a Discharger monitors nutrients more frequently than required by this Order at a monitoring location described in Table E-1, it shall include the results of such monitoring in the calculations and reporting for the relevant SMR.
- b. Annual Nutrients Report.** By January 1 of each year, each Discharger shall provide its nutrient information in a separate annual report or state that it is participating in a group report the Bay Area Clean Water Agencies (BACWA) will submit pursuant to section B.1.c, below. Each Discharger shall submit the following:
  - i.** Documentation that the Discharger is complying with Provision VI.C.4 of the Order. If reporting in a group report pursuant to section IV.B.1.c, below, the Discharger shall submit certification that it has provided adequate support (i.e., contributed its portion of the required contribution) in accordance with Provision VI.C.4.
  - ii.** Summary tables depicting the Discharger's annual and monthly flows, nutrient concentrations, and nutrient mass loads, calculated as described in Attachment G section VIII.A (Arithmetic Calculations) of individual NPDES permits. The

summary tables shall cover October 1 before the preceding year through September 30 of the preceding year and at least the previous five years of available data. Each Discharger shall document its nutrient loads relative to other facilities covered by this Order that discharge into the same subembayment (i.e., Suisun Bay, San Pablo Bay, Central Bay, South Bay, and Lower South Bay). These subembayment delineations may be refined through Provision VI.C.4 of the Order, in which case each Discharger shall document loads relative to the most recent delineation. Nutrient data from other Dischargers may be obtained from the State Water Board’s California Integrated Water Quality System (CIWQS) website (<https://www.waterboards.ca.gov/ciwqs/index.html>).

- iii. Analysis of nutrient trends and load variability, and assessment as to whether nutrient mass discharges are increasing or decreasing.
- iv. Status and plans for investigation if the trend analysis shows a significant change in nutrient loading. In such cases, the Discharger shall investigate the cause. In the annual reports, the Discharger shall set forth its plans for investigation and report its results, providing necessary updates in subsequent annual reports. The investigation shall include, at a minimum, whether treatment process changes, increasing or decreasing water reclamation, or changes in total influent flow related to water conservation, population growth, transient work community, new industry, or wet weather flows have reduced or increased nutrient discharges.

c. **Optional Annual Group Nutrients Report.** As an alternative to submitting an individual Annual Nutrients Report in accordance with section IV.B.1.b, above, each Discharger may instead participate in a group report to be submitted by BACWA. By February 1 of each year, the Annual Group Nutrients Report shall include the information detailed in section IV.B.1.b.

**2. Monitoring Periods.** Monitoring periods for all required monitoring shall be as set forth below unless otherwise specified:

**Table E-5. Monitoring Periods**

Sampling Frequency	Monitoring Period Begins On...	Monitoring Period
Twice per month	Order effective date	First day of calendar month through last day of calendar month
Once per month		
Once per quarter	Closest January 1, April 1, July 1, or October 1 before or after Order effective date <sup>[1]</sup>	January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31
Twice per year	Closest May 1 or October 1 before or after Order effective date <sup>[1]</sup>	October 1 through April 30 May 1 through September 30

Footnote:

<sup>[1]</sup> Monitoring performed during the previous order term may be used to satisfy monitoring required by this Order.

**C. Discharge Monitoring Reports (DMRs)**

DMRs are U.S. EPA reporting requirements. Dischargers shall electronically certify and submit DMRs together with SMRs using the Electronic Self-Monitoring Reports module eSMR 2.5 or



the latest upgraded version. Electronic DMR submittal shall be in addition to electronic SMR submittal. Information about electronic DMR submittal is available at the DMR website at [http://www.waterboards.ca.gov/water\\_issues/programs/discharge\\_monitoring](http://www.waterboards.ca.gov/water_issues/programs/discharge_monitoring).

## ATTACHMENT F - FACT SHEET

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## ATTACHMENT F – FACT SHEET

This Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order. As described in section II.B of the Order, the Regional Water Board incorporates this Fact Sheet as findings supporting the issuance of the Order.

### I. PERMIT INFORMATION

The following table summarizes administrative information related to the Dischargers’ facilities:

**Table F-1. Municipal Facility Information**

Discharger	Facility Contact, Title, and Phone	Mailing Address	Effluent Description	Facility Design Flow (MGD)
American Canyon, City of	Stacey Ambrose, Environmental Services Manager (707) 647-4542	151 Mezzetta Court American Canyon, CA 94503	Advanced Secondary	2.5
Benicia, City of	Jeff Gregory, Wastewater Treatment Plant Superintendent (707) 746-4790	614 East Fifth Street Benicia, CA 94510	Secondary	4.5
Burlingame, City of	Syed Murtuza, Director of Public Works (650) 558-7230	501 Primrose Burlingame, CA 94010	Secondary	5.5
Central Contra Costa Sanitary District	Ann K. Sasaki, Deputy General Manager (925) 228-9500	5019 Imhoff Place Martinez, CA 94553	Secondary	53.8
Central Marin Sanitation Agency	Jason Dow, General Manager (415) 459-1455	1301 Andersen Drive San Rafael, CA 94901	Secondary	10
Crockett Community Services District, Port Costa Sanitary Department	James Barnhill, Sanitary Department Manager (510) 787-2992	P.O. Box 578 Crockett, CA 94525	Secondary	0.033
Delta Diablo	Vince De Lange, General Manager (925) 756-1920	2500 Pittsburg-Antioch Highway Antioch, CA 94509	Secondary	19.5
East Bay Dischargers Authority (EBDA)	Jacqueline T. Zipkin (EBDA), General Manager (510) 278-5910  Matt Graul (EBRPD), Chief of Stewardship, (510) 544-2346	2651 Grant Avenue San Lorenzo, CA 94580 (EBDA)  3050 West Winton Road Hayward, CA 94545 (EBRPD)	Secondary	107.8
City of Hayward				
City of San Leandro				
Oro Loma and Castro Valley Sanitary Districts				
Union Sanitary District				
East Bay Regional Parks District (EBRPD)				
Livermore-Amador Valley Water Management Agency				
Dublin San Ramon Services District City of Livermore				
East Bay Municipal Utility District	Eileen White, Director of Wastewater (510) 287-1149	P.O. Box 24055 Oakland, CA 94623-1055	Secondary	120
Fairfield-Suisun Sewer District	Gregory G. Baatrup, General Manager (707) 428-9162	1010 Chadbourne Road Fairfield, CA 94534	Advanced Secondary	23.7

<b>Discharger</b>	<b>Facility Contact, Title, and Phone</b>	<b>Mailing Address</b>	<b>Effluent Description</b>	<b>Facility Design Flow (MGD)</b>
Las Gallinas Valley Sanitary District	Mel Liebmann, Plant Manager (415) 472-1734 ext. 26	300 Smith Ranch Road San Rafael, CA 94903	Secondary	2.92
Marin County (Paradise Cove), Sanitary District No. 5 of	Tony Rubio, Chief Plant Operator (415) 435-1501	P.O. Box 227 Tiburon, CA 94920	Secondary	0.04
Marin County (Tiburon), Sanitary District No. 5 of	Tony Rubio, Chief Plant Operator (415) 435-1501	2001 Paradise Drive Tiburon, CA 94920	Secondary	0.98
Millbrae, City of	Khee Lim, Public Works Director (650) 259-2347	621 Magnolia Avenue Millbrae, CA 94030	Secondary	3.0
Mt. View Sanitary District	Neal Allen, District Manager (925) 228-5635 ext. 32	P. O. Box 2757 Martinez, CA 94553	Advanced Secondary	3.2
Napa Sanitation District	James Keller, Operations Director/Plant Manager (707) 258-6020	1515 Soscol Ferry Road Napa, CA 94558	Secondary	15.4
Novato Sanitary District	Sandeep Karkal, Manager-Engineer (415-892-1694	500 Davidson Street Novato, CA 94945	Secondary	7.0
Palo Alto, City of	James Allen, Plant Manager (650) 329-2243	2501 Embarcadero Way Palo Alto, CA 94303	Advanced Secondary	39
Petaluma, City of	Matthew Pierce, Operations Supervisor (707) 776-3777	202 N. McDowell Blvd. Petaluma, CA 94954	Secondary	6.7
Pinole, City of	Ron Tobey, Plant Manager (510) 724-8963	2131 Pear Street Pinole, CA 94564	Secondary	4.06
Rodeo Sanitary District	Steven S. Beall, District Manager (510) 799-2970	800 San Pablo Avenue Rodeo, CA 94572	Secondary	1.14
San Francisco (San Francisco International Airport), City and County of	Leroy Sisneros, Director of Facilities 650-821-5400	P.O. Box 8097 San Francisco, CA 94128	Secondary	2.2
San Francisco (Southeast Plant), City and County of	Amy Chastain, Regulatory Program Manager (415) 554-1683	525 Golden Gate Avenue, 13th Floor San Francisco, CA 94103	Secondary	85.4
San Jose and Santa Clara, Cities of	Eric Dunlavey, Wastewater Compliance Program Manager (408) 635-4017	700 Los Esteros Road San Jose, CA 95134	Advanced Secondary	167
San Mateo, City of	Dean Wilson, Chief Plant Operator (650) 522-7386	330 West 20 <sup>th</sup> Avenue San Mateo, CA 94403	Secondary	15.7
Sausalito-Marín City Sanitary District	Jeffrey Kingston, General Manager (415) 331-4716	1 East Road Sausalito, CA 94965	Secondary	1.8
Sewerage Agency of Southern Marin	Mark Grushayev, General Manager (415) 384-4825	26 Corte Madera Ave. Mill Valley, CA 94941	Secondary	3.6

<b>Discharger</b>	<b>Facility Contact, Title, and Phone</b>	<b>Mailing Address</b>	<b>Effluent Description</b>	<b>Facility Design Flow (MGD)</b>
Silicon Valley Clean Water	Teresa Herrera, General Manager (650) 591-7121	1400 Radio Road Redwood City, CA 94065	Secondary	29
Sonoma Valley County Sanitation District	Pam Jeane, Assistant General Manager (707) 521-1864	Sonoma County Water Agency 404 Aviation Blvd. Santa Rosa, CA 95403	Secondary	3.0
South San Francisco and San Bruno, Cities of	Brian Schumacker, Plant Superintendent (650) 877-8555	195 Belle Air Road South San Francisco, CA 94080	Secondary	13
Sunnyvale, City of	Stephen Hogg, WPCP Division Manager (408) 730-7788	Sunnyvale Water Pollution Control Plant P.O. Box 3707 Sunnyvale, CA 94088-3707	Advanced Secondary	29.5
U.S. Department of Navy (Treasure Island)	Patricia A. McFadden, Base Operations Manager, San Francisco Bay Area (415) 743-4720	1 Avenue of the Palms, Suite 161 San Francisco, CA 94130	Secondary	2.0
Vallejo Flood and Wastewater District	Melissa Morton, District Manager (707) 644-8949	450 Ryder Street Vallejo, CA 94590	Secondary	15.5
West County Agency; West County Wastewater District; City of Richmond; and Richmond Municipal Sewer District	Lisa Malek-Zadeh, General Manager 510-222-6700	2910 Hilltop Drive Richmond, CA 94806	Secondary	28.5

**Table F-2. Additional Municipal Facility Information**

<b>Discharger</b>	<b>Authorized Person to Sign and Submit Reports</b>	<b>Billing Address</b>	<b>Pretreatment Program</b>	<b>Receiving Water Type</b>
American Canyon, City of	Stacey Ambrose, Environmental Services Manager (707) 647-4542	151 Mezzetta Court American Canyon, CA 94503	Yes	Estuarine
Benicia, City of	Jeff Gregory, Wastewater Treatment Plant Superintendent (707) 746-4790	614 East Fifth Street Benicia, CA 94510	Yes	Estuarine
Burlingame, City of	Michael Thompson, Chief Plant Operator (650) 342-3727	501 Primrose Burlingame, CA 94010	Yes	Marine
Central Contra Costa Sanitary District	Ann K. Sasaki, Deputy General Manager (925) 228-9500	5019 Imhoff Place Martinez, CA 94553	Yes	Estuarine
Central Marin Sanitation Agency	Jason Dow, General Manager (415) 459-1455	1301 Andersen Drive San Rafael, CA 94901	Yes	Estuarine
Crockett Community Services District, Port Costa Sanitary Department	James Barnhill, Sanitary Department Manager (510) 787-2992	P.O. Box 578 Crockett, CA 94525	No	Estuarine
Delta Diablo	Vince De Lange, General Manager (925) 756-1920	2500 Pittsburg-Antioch Highway Antioch, CA 94509	Yes	Estuarine
East Bay Dischargers Authority (EBDA)	Jacqueline T. Zipkin, General Manager (510) 278-5910  Matt Graul (EBRPD), Chief of Stewardship, (510) 544-2346	2651 Grant Avenue San Lorenzo, CA 94580 (EBDA)  3050 West Winton Road Hayward, CA 94545 (EBRPD)	Yes	Estuarine
City of Hayward				
City of San Leandro				
Oro Loma and Castro Valley Sanitary Districts				
Union Sanitary District				
East Bay Regional Parks District (EBRPD)				
Livermore-Amador Valley Water Management Agency				
Dublin San Ramon Services District				
City of Livermore				
East Bay Municipal Utility District	Eileen White, Director of Wastewater (510) 287-1149	P.O. Box 24055, MS#702 Oakland, CA 94623-1055	Yes	Marine
Fairfield-Suisun Sewer District	Brian Hawley, Operations Manager (707) 428-9118	1010 Chadbourne Road Fairfield, CA 94534	Yes	Estuarine
Las Gallinas Valley Sanitary District	Mel Liebmann, Plant Manager (415) 472-1734 ext. 26	300 Smith Ranch Road San Rafael, CA 94903	No	Estuarine
Marin County (Paradise Cove), Sanitary District No. 5 of	Tony Rubio, Chief Plant Operator (415) 435-1501	P.O. Box 227 Tiburon, CA 94920	No	Marine
Marin County (Tiburon), Sanitary District No. 5 of	Tony Rubio, Chief Plant Operator (415) 435-1501	2001 Paradise Drive Tiburon, CA 94920	No	Marine

<b>Discharger</b>	<b>Authorized Person to Sign and Submit Reports</b>	<b>Billing Address</b>	<b>Pretreatment Program</b>	<b>Receiving Water Type</b>
Millbrae, City of	Craig Centis, Public Works Superintendent (650) 259-2376	621 Magnolia Avenue Millbrae, CA 94030	No	Marine
Mt. View Sanitary District	Neal Allen, District Manager (925) 228-5635 ext. 32	P. O. Box 2757 Martinez, CA 94553	No	Estuarine
Napa Sanitation District	Tim Healy, General Manager (707) 258-6000	1515 Soscol Ferry Road Napa, CA 94558	Yes	Estuarine
Novato Sanitary District	Sandeep Karkal, Manager-Engineer (415-892-1694	500 Davidson Street Novato, CA 94945	Yes	Estuarine
Palo Alto, City of	James Allen, Plant Manager (650) 329-2243	2501 Embarcadero Way, Palo Alto, CA 94303	Yes	Estuarine
Petaluma, City of	Matthew Pierce, Operations Supervisor (707) 776-3777	202 N. McDowell Blvd. Petaluma, CA 94954	Yes	Estuarine
Pinole, City of	Ron Tobey, Plant Manager (510) 724-8963	2131 Pear Street Pinole, CA 94564	No	Estuarine
Rodeo Sanitary District	Steven S. Beall, District Manager (510) 799-2970	800 San Pablo Avenue Rodeo, CA 94572	No	Estuarine
San Francisco (San Francisco International Airport), City and County of	Leroy Sisneros, Director of Facilities 650-821-5400	P.O. Box 8097 San Francisco, CA 94128	Yes	Marine
San Francisco (Southeast Plant), City and County of	Greg Norby, Assistant General Manager (415) 554-2465	525 Golden Gate Avenue, 13th Floor San Francisco, CA 94103	Yes	Marine
San Jose and Santa Clara, Cities of	Amit K. Mutsuddy, Deputy Director (408) 635-2007	700 Los Esteros Road San Jose, CA 95134	Yes	Estuarine
San Mateo, City of	Dean Wilson, Chief Plant Operator (650) 522-7386	330 West 20 <sup>th</sup> Avenue San Mateo, CA 94403	Yes	Marine
Sausalito-Marin City Sanitary District	Omar Arias-Montez, General Manager (415) 331-4716	1 East Road Sausalito, CA 94965	No	Marine
Sewerage Agency of Southern Marin	Mark Grushayev, General Manager (415) 384-4825	26 Corte Madera Ave. Mill Valley, CA 94941	No	Marine
Silicon Valley Clean Water	Monte Hamamoto, Chief Operating Officer (650) 832-6266	1400 Radio Road Redwood City, CA 94065	Yes	Marine
Sonoma Valley County Sanitation District	Ryan Kirchner, Operations Coordinator (707) 495-6160	Sonoma County Water Agency 404 Aviation Blvd. Santa Rosa, CA 95403	No	Estuarine



<b>Discharger</b>	<b>Authorized Person to Sign and Submit Reports</b>	<b>Billing Address</b>	<b>Pretreatment Program</b>	<b>Receiving Water Type</b>
South San Francisco and San Bruno, Cities of	Brian Schumacker, Plant Superintendent (650) 877-8555	195 Belle Air Road South San Francisco, CA 94080 San Mateo County	Yes	Marine
Sunnyvale, City of	Stephen Hogg, WPCP Division Manager (408) 730-7788	Sunnyvale Water Pollution Control Plant P.O. Box 3707 Sunnyvale, CA 94088-3707	Yes	Estuarine
U.S. Department of Navy (Treasure Island)	Patricia A. McFadden, Base Operations Manager, San Francisco Bay Area (415) 743-4720	1 Avenue of the Palms, Suite 161 San Francisco, CA 94130	No	Marine
Vallejo Flood and Wastewater District	Melissa Morton, District Manager (707) 644-8949	450 Ryder Street Vallejo, CA 94590	Yes	Estuarine
West County Agency; West County Wastewater District; City of Richmond; and Richmond Municipal Sewer District No. 1	Lisa Malek-Zadeh, General Manager 510-222-6700	2910 Hilltop Drive Richmond, CA 94806	Yes	Estuarine

- A.** The Dischargers listed in Table 1 own and operate their respective wastewater treatment plants and collection systems. The Dischargers provide secondary or advanced secondary treatment of wastewater collected from their service areas. After treatment, the Dischargers discharge to San Francisco Bay<sup>3</sup> and its tributaries, which are waters of the United States within the San Francisco Bay watershed. Details of the wastewater treatment processes and discharges are described in the individual NPDES permits listed in Attachment B. Attachment C shows a map of the primary discharge locations subject to this Order.

For the purposes of this Order, references to “discharger” or “permittee” in applicable federal and State laws, regulations, plans, or policies are held to be equivalent to references to the Dischargers herein.

- B.** The Dischargers are regulated pursuant to NPDES Permit No. CA0038873. The Dischargers were previously subject to Order No. R2-2014-0014 (previous order).

The Dischargers are authorized to discharge nutrients subject to waste discharge requirements (WDRs) in this Order. Regulations at 40 C.F.R. section 122.46 limit the duration of NPDES permits to a fixed term not to exceed five years. Accordingly, Table 3 of this Order limits the effective period for this discharge authorization. Pursuant to California Code of Regulations, title 23, section 2235.4, the terms and conditions of an expired permit are automatically continued pending reissuance of the permit if the Dischargers comply with all requirements for continuation of expired permits. (40 C.F.R § 122.6(d))

- C.** This Order establishes requirements because municipal wastewater treatment plants are a significant source of nutrients to San Francisco Bay and nutrients pose a potential threat to San Francisco Bay beneficial uses. Nitrogen is the growth-limiting nutrient of San Francisco Bay,<sup>4</sup> and municipal wastewater treatment plants account for about 62 percent of the annual average total inorganic nitrogen (the bioavailable form of nitrogen) load to San Francisco Bay.<sup>5</sup>

San Francisco Bay has long been recognized as nutrient-enriched. Despite this, the abundance of phytoplankton in the estuary is lower than what would be expected due to strong tidal mixing, which limits periods of stratification; high turbidity, which limits light penetration; and an abundant clam population, which feeds on the phytoplankton. However, recent data indicate an increase in phytoplankton biomass and a small decline in dissolved oxygen concentrations in many areas of the estuary, suggesting that San Francisco Bay’s historic resilience to the effects of nutrient enrichment may be weakening. The contributing factors for this decline include (1) natural oceanic oscillations that have increased benthic predators, thus reducing South San Francisco Bay’s clam population and clam grazing; and (2) decreases in suspended sediment that have resulted in a less turbid environment and increased light penetration:

- Beginning in the late 1990s, phytoplankton growth in South San Francisco Bay increased sharply through 2010,<sup>6</sup> then leveled off, and may now be gradually declining. The cause of this

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<sup>3</sup> San Francisco Bay, as the term is used in this Order, refers to the Sacramento/San Joaquin River Delta generally west of and including Montezuma Island, Suisun Bay, Carquinez Strait, San Pablo Bay, Central San Francisco Bay, Richardson Bay, Lower San Francisco Bay, and South San Francisco Bay.

<sup>4</sup> San Francisco Estuary Institute, Scientific Foundation for the San Francisco Bay Nutrient Management Strategy, Draft FINAL, October 2014, page 65.

<sup>5</sup> San Francisco Estuary Institute, External Nutrient Loads to San Francisco Bay, January 2014, Table 6, page 27.

<sup>6</sup> Cloern, J.E., and A.D. Jassby (2012), “Drivers of change in estuarine-coastal ecosystems: Discoveries from four decades of study in San Francisco Bay,” *Reviews of Geophysics*, 50, RG4001, page 21.

increase appears to have been a significant increase in fish, shrimp, and crab predators attributed to a change in natural oceanic oscillations bringing colder waters to San Francisco Bay.

- In certain areas (e.g., Suisun Bay), turbidity has decreased up to 50 percent since 1975.<sup>7</sup> The reasons appear to relate to decreases in sediment loads from the Sierra Nevada Mountains and Central Valley, and the amount of erodible material within San Francisco Bay. Even with the significant turbidity decrease in Suisun Bay, phytoplankton biomass production continues to be suppressed.

Spring phytoplankton blooms are relatively frequent in San Francisco Bay, and fall blooms are becoming more frequent. The reasons are unknown, but the increases could be the result of a less turbid environment and less clam grazing. While San Francisco Bay experiences strong tidal mixing, there are two periods each year, between March and April and between September and October, during which there is less tidal mixing.<sup>7</sup> During these periods, salinity stratification can develop if there are sufficient freshwater inputs, as is typical during spring. More calm, clear days can lead to temperature stratification, as is typical during fall. Under these stratifying conditions, phytoplankton can remain in the light-rich zone of the upper water column and grow rapidly. Typically, these blooms are short-lived, lasting only 10 to 14 days and ending when tides increase and re-mix the water column.

Phytoplankton growth and biomass accumulation are currently limited much of the time by a lack of light, and biomass accumulation is further controlled by clam grazing. If these constraints continue to shift, increases in phytoplankton biomass could follow. Under this scenario, it may be necessary to limit the availability of essential nutrients. Therefore, it is necessary to understand (1) current and future nutrient loads from municipal dischargers, (2) the fate and cycling of these nutrients, (3) the potential for current or future adverse impacts (e.g., low dissolved oxygen or harmful algal blooms) from these nutrients, and (4) indicators of potential changes in the Bay's ability to assimilate nutrients and maintain its resilience to potential adverse nutrient-related impacts.

The contribution of municipal wastewater treatment plants to the total inorganic nitrogen load in San Francisco Bay varies depending on subembayment,<sup>8</sup> as shown in the table below:

**Table F-3. Annual Average Total Inorganic Nitrogen Loads (2006-2011)**

Subembayment	Municipal (kg N/day)	Petroleum Refinery (kg N/day)	Municipal Stormwater (kg N/day)	Delta (kg N/day)	Total (kg N/day)	Municipal (%)
Lower South Bay	6,800	n/a	540	n/a	7,300	93
South Bay	19,400	n/a	670	n/a	20,000	97
Central Bay	11,700	n/a	160	n/a	11,800	99
San Pablo Bay & Carquinez Strait	2,200	840	7,480	n/a	10,600	21
Suisun Bay	5,600	130	1,970	15,900	23,600	24
<b>Baywide<sup>[1]</sup></b>	<b>45,700</b>	<b>970</b>	<b>10,820</b>	<b>15,900</b>	<b>74,000</b>	<b>62</b>

Footnote:

<sup>[1]</sup> Baywide totals may not add up due to rounding.

<sup>7</sup> San Francisco Estuary Institute, Scientific Foundation for the San Francisco Bay Nutrient Management Strategy, October 2014, page 34.

<sup>8</sup> San Francisco Estuary Institute, External Nutrient Loads to San Francisco Bay, January 2014, Table 6, page 27.

- D.** Several years may be needed to determine an appropriate level of nutrient control and to identify management actions necessary to protect San Francisco Bay’s beneficial uses. This Order is the second phase of what the Regional Water Board expects to be a multiple-permit-term effort. It continues to implement the regional assessment framework established by the previous order to facilitate collaboration on studies that will inform future nutrient management decisions and regulatory strategies. The overall purpose of this phase is to (1) track and evaluate treatment plant performance, (2) fund nutrient monitoring programs, (3) support load response modeling, and (4) evaluate, on an individual and subembayment scale, nutrient removal approaches using natural systems and wastewater recycling. These studies will increase the understanding of external nutrient loads, improve San Francisco Bay load-response models, support development of nutrient water quality objectives, and increase the certainty regarding whether any required nutrient removal at treatment plants might produce a desired outcome. In 2024, the Regional Water Board anticipates considering whether to establish nutrient effluent limitations, which could require implementation of treatment plant optimization or upgrades or other means to reduce nutrient loads to San Francisco Bay. This consideration will rely on the most recently available scientific findings. The Regional Water Board will also consider exploring a nutrient credit trading system between Dischargers.

## II. FACILITY DESCRIPTION

### A. Wastewater Treatment

- 1. Locations and Service Areas.** The municipal wastewater treatment plants are located throughout the San Francisco Bay region and described in the individual permits listed in Attachment B.
- 2. Wastewater Treatment.** Municipal wastewater treatment plants provide secondary treatment, which includes screening, skimming, settling, and biological treatment. Some plants provide advanced secondary treatment, which can nitrify ammonia to make nitrate-nitrogen. Plants also denitrify at various levels, which removes total nitrogen from wastewater. The primary source of nutrients in municipal wastewater is human waste; therefore, most Dischargers have no practical way of controlling influent nutrient levels. Municipal wastewater treatment plants generally remove around 20 to 30 percent of the total nitrogen load in their influent.

### B. Discharge Point and Receiving Waters

The municipal wastewater treatment plants discharge throughout San Francisco Bay, including Lower South San Francisco Bay, South San Francisco Bay, Central San Francisco Bay, San Pablo Bay, Carquinez Strait, Suisun Bay, and connected tributaries. Discharge points and receiving waters are described in the individual permits listed in Attachment B. Primary discharge points are also shown in Attachment C.

### C. Previous Requirements

The previous order required the Dischargers to evaluate potential nutrient reduction options through treatment plant optimization, sidestream treatment, treatment plant upgrades, and other means. The Dischargers submitted a Nutrient Reduction Study on June 22, 2018, summarizing the results of their evaluations. The previous order also required the Dischargers to develop a science plan of necessary studies to support implementation of the San Francisco Bay Nutrient

Management Strategy. The Dischargers submitted the Interim Science Plan for the San Francisco Bay Nutrient Management Strategy on January 31, 2015, and have since submitted annual updates. Since then, they have updated the plan and continue to implement the studies.

**D. Existing Nutrient Discharge Data**

The previous order required Dischargers to collect nutrients data. As shown below, the data show that approximately 90 percent of total inorganic nitrogen and total phosphorus discharges are from facilities that have permitted design flows of 10 million gallons per day (MGD) or greater.

**Table F-4. Annual Average Nutrient Discharge Loads**

Discharger	Annual Average Total Inorganic Nitrogen Load (kg/day)	Annual Average Total Phosphorus Load (kg/day)	Design Flow (MGD)
	July 1, 2014 - June 30, 2018		-
American Canyon, City of	42	26	2.5
Benicia, City of	240	19	4.5
Burlingame, City of	320	26	5.5
Central Contra Costa Sanitary District	3,800	120	53.8
Central Marin Sanitation Agency	940	94	10
Crockett Community Services District, Port Costa Sanitary Department	0.88	0.48	0.033
Delta Diablo	1,400	44	19.5
East Bay Dischargers Authority	8,800 <sup>[1]</sup>	590 <sup>[1]</sup>	107.8
Hayward, City of			
San Leandro, City of			
Oro Loma and Castro Valley Sanitary Districts			
Union Sanitary District			
East Bay Regional Parks District			
Livermore-Amador Valley Water Management Agency			
Dublin San Ramon Services District			
Livermore, City of			
East Bay Municipal Utility District	9,800	760	120
Fairfield-Suisun Sewer District	1,000	200	23.7
Las Gallinas Valley Sanitary District	250	38	2.92
Marin County (Paradise Cove), Sanitary District No. 5 of	2.1	0.40	0.04
Marin County (Tiburon), Sanitary District No. 5 of	55	8.4	0.98
Millbrae, City of	260	11	3.0
Mt. View Sanitary District	130	15	3.2
Napa Sanitation District	380	71	15.4
Novato Sanitary District	230	17	7.0
Palo Alto, City of	2,400	390	39
Petaluma, City of	27	38	6.7
Pinole, City of	310	20	4.06

Discharger	Annual Average Total Inorganic Nitrogen Load (kg/day)	Annual Average Total Phosphorus Load (kg/day)	Design Flow (MGD)
	July 1, 2014 - June 30, 2018		-
Rodeo Sanitary District	35	8.3	1.14
San Francisco (San Francisco International Airport), City and County of	180	15	2.2
San Francisco (Southeast Plant), City and County of	9,500	260	85.4
San Jose and Santa Clara, Cities of	5,300	310	167
San Mateo, City of	1,300	130	15.7
Sausalito-Marin City Sanitary District	130	17	1.8
Sewerage Agency of Southern Marin	190	43	3.6
Silicon Valley Clean Water	2,500	220	29
Sonoma Valley County Sanitation District	150	35	3.0
South San Francisco and San Bruno, Cities of	990	150	13
Sunnyvale, City of	790	220	29.5
U.S. Department of Navy (Treasure Island)	16	4.0	2.0
Vallejo Flood and Wastewater District	930	120	15.5
West County Agency; West County Wastewater District; City of Richmond; and Richmond Municipal Sewer District No. 1	920	73	28.5
<b>Aggregate Load (kg/day) <sup>[2]</sup></b>	<b>53,000</b>	<b>4,000</b>	-
<b>Load from Facilities with Design Flow <math>\geq</math> 10 MGD <sup>[2]</sup></b>	<b>48,000 (91%)</b>	<b>3,600 (88%)</b>	-

Footnote:

<sup>[1]</sup> The annual average includes loads to Hayward Marsh.

<sup>[2]</sup> Totals may not add up due to rounding.

### E. Nutrient Load Targets for Future Planning

As part of the San Francisco Bay Nutrient Management Strategy, the Regional Water Board is seeking to understand what nutrient loadings from municipal wastewater treatment plants are still protective of San Francisco Bay’s beneficial uses through scientific studies and modeling. This Order allows time for scientific studies to determine what nutrient load reductions are necessary to protect San Francisco Bay and for Dischargers to evaluate cost-effective nutrient management opportunities. This Order does not establish effluent limitations due to the current uncertainties in the extent that nutrients are causing or contributing to adverse effects in San Francisco Bay.

Based on the most up-to-date scientific findings, the Regional Water Board will consider establishing effluent limitations when reissuing this Order in 2024 to prevent further increases in nutrient loads from municipal wastewater treatment plants. Because portions of San Francisco Bay share different nutrient sources and unique hydrodynamic characteristics, the Regional Water Board expects to evaluate compliance with any effluent limitations on a subembayment scale (e.g., establishing subembayment load caps), as determined through the efforts required by

Provision VI.C.4 of this Order, and with consideration of cost-effective and feasible nutrient management solutions. The Regional Water Board also expects to explore a framework for nutrient credit trading for evaluating compliance with nutrient load caps by subembayment.

As a precursor to potential effluent limitations, this Fact Sheet includes estimates of nutrient load targets that major Dischargers may be expected to meet by 2024 based on their current nutrient discharge performance and future population growth. The load targets are intended to forecast nutrient discharge performance in 2024 and to alert Dischargers of potential future effluent limitations so that they can implement necessary early actions to reduce nutrients in their current or future facility planning efforts (e.g., treatment plant upgrades or wetland creation as tertiary treatment). Because nitrogen is the growth-limiting nutrient for phytoplankton in San Francisco Bay, these load targets are expressed in terms of total inorganic nitrogen, the bioavailable form of nitrogen.

For purposes of this Order, current performance is defined by the maximum dry season average of total inorganic nitrogen data the major Dischargers collected between May 1, 2014, and September 30, 2017. The dry season is defined as the period between May 1 and September 30. The maximum dry season average appropriately defines current performance because it accounts for variability in nutrient discharges associated with changes from wastewater treatment pilot projects, waste-to-energy programs, and recycled water use. Only dry season discharge data were used because it more accurately represents treatment plant performance by excluding nutrient removal variability caused by increased influent flows and lower temperatures during wet weather, variables Dischargers cannot readily control. Consequently, Dischargers prohibited from discharging during the dry season by their individual permits do not have load targets (these Dischargers store or recycle their wastewater during the dry season).

The load targets were determined by adding a 15 percent buffer to the current nutrient discharge performance (i.e., the maximum dry season average between May 1, 2014, and September 30, 2017) to account for population growth. For information purposes, the Dischargers' current total inorganic nitrogen performance and 2024 total inorganic nitrogen load targets are shown below:

**Table F-5. Dry Season Total Inorganic Nitrogen Load Discharges — Current Performance and 2024 Load Targets**

Discharger	Current Performance	2024 Dry Season Average Load Targets
	Dry Season (May 1 – September 30) between May 1, 2014 – September 30, 2017  Maximum Dry Season Average <sup>[1]</sup>	Current Performance + (Current Performance × 15% growth buffer)
kg/day		
American Canyon, City of	80	92
Benicia, City of	240	280
Burlingame, City of	290	330
Central Contra Costa Sanitary District	3,700	4,300
Central Marin Sanitation Agency	1,200	1,400
Delta Diablo	1,500	1,700
East Bay Dischargers Authority	8,400 <sup>[2]</sup>	9,600
Hayward, City of		
San Leandro, City of		

Discharger	Current Performance	2024 Dry Season Average Load Targets
	Dry Season (May 1 – September 30) between May 1, 2014 – September 30, 2017  Maximum Dry Season Average <sup>[1]</sup>	Current Performance + (Current Performance × 15% growth buffer)
kg/day		
Oro Loma and Castro Valley Sanitary Districts		
Union Sanitary District		
East Bay Regional Parks District		
Livermore-Amador Valley Water Management Agency		
Dublin San Ramon Services District		
Livermore, City of		
East Bay Municipal Utility District	9,800	11,000
Fairfield-Suisun Sewer District	1,100	1,200
Las Gallinas Valley Sanitary District	[3]	-
Millbrae, City of	290	340
Mt. View Sanitary District	120	140
Napa Sanitation District	[3]	-
Novato Sanitary District	[3]	-
Palo Alto, City of	2,600	3,000
Petaluma, City of	[3]	-
Pinole, City of	340	390
Rodeo Sanitary District	31	35
San Francisco (San Francisco International Airport), City and County of	340	400
San Francisco (Southeast Plant), City and County of	11,000	12,000
San Jose and Santa Clara, Cities of	5,300	6,100
San Mateo, City of	1,500	1,700
Sausalito-Marin City Sanitary District	150	170
Sewerage Agency of Southern Marin	190	220
Silicon Valley Clean Water	2,500	2,900
Sonoma Valley County Sanitation District	[3]	-
South San Francisco and San Bruno, Cities of	920	1,100
Sunnyvale, City of	630	730
U.S. Department of Navy (Treasure Island)	21	24
Vallejo Flood and Wastewater District	900	1,000



Discharger	Current Performance	2024 Dry Season Average Load Targets
	Dry Season (May 1 – September 30) between May 1, 2014 – September 30, 2017  Maximum Dry Season Average <sup>[1]</sup>	Current Performance + (Current Performance × 15% growth buffer)
kg/day		
West County Agency; West County Wastewater District; City of Richmond; and Richmond Municipal Sewer District No. 1	1,000	1,200

Footnotes:

- <sup>[1]</sup> Load targets may not exactly compute from current performance values due to rounding. Calculations were completed prior to rounding. When comparing load targets and measured loads, measured loads will first be rounded in the same manner as the load targets.
- <sup>[2]</sup> The current performance includes total inorganic nitrogen loads to the Hayward Marsh.
- <sup>[3]</sup> The Discharger is prohibited from discharging during the dry season. The dry season discharge prohibition period is defined in its individual NPDES permit as listed in Attachment B.

Although the Regional Water Board expects to implement effluent limitations in 2024 based on nutrient discharge performance, scientific conclusions from monitoring, load response modeling, or the establishment of nutrient water quality objectives will be used to determine what effluent limitations are appropriate at that time. The Regional Water Board also expects that, if effluent limitations in 2024 are necessary and based on performance, such limitations would be based on performance between May 1, 2014, to September 30, 2017, as projected in Table F-5, to ensure that Dischargers who have taken early actions to reduce nutrient discharges during this Order term are not penalized with more stringent effluent limitations in 2024. Before implementing any load targets as effluent limitations, the Regional Water Board may adjust them if necessary (e.g., to account for decreased recycled water demand, increased biosolids management, increased daytime worker population, or new or expanded waste-to-energy programs<sup>9</sup>).

If the most up-to-date scientific information indicates that nutrient loads must be capped or reduced, the Regional Water Board will recognize early actions (i.e., Dischargers’ capital or operational improvements or other means that significantly reduce nutrient loads during this Order term) when considering compliance with nutrient load caps or reductions in a subembayment. This will likely result in findings that no further actions by these Dischargers will be necessary for the design life of the associated capital improvements, provided that other Dischargers can implement capital improvements to reduce nutrient loads below the subembayment cap. Any Discharger who significantly reduces nutrient loads during this Order term will be considered for recognition as an early actor. Dischargers who have already committed to taking early action during this Order term are listed below:

<sup>9</sup> To reduce methane emissions from landfills, Senate Bill No. 1383 requires a 75 percent statewide reduction in organic waste disposal from 2014 levels by 2025.

**Table F-6. Dischargers Taking Early Action**

Discharger	Early Action Project	Expected Total Inorganic Nitrogen Results
Central Contra Costa Sanitary District	<p><b>Description:</b> The Discharger may implement nutrient removal and advanced recycled water treatment for about 20 MGD of its wastewater flow and sell the recycled water to the Contra Costa Water District, which will convey the recycled water to two refineries adjacent to the Discharger. Through agreements and other water storage and conveyance improvements, additional water supply would be made available to Santa Clara Valley Water District. In 2018, a Memorandum of Understanding was executed between the Discharger, the Contra Costa Water District, and the Santa Clara Valley Water District.</p> <p><b>Schedule:</b> Completion by 2024.</p>	Load Reduction: >30%
City of Hayward	<p><b>Description:</b> The Discharger is will replace one of its two existing trickling filters with a biological nutrient removal process by converting existing solids contact tanks into anoxic and oxic basins, which would treat 50 percent of the treatment plant flow.</p> <p><b>Schedule:</b> Completion by 2025.</p>	<p>Load reduction: &gt;30%</p> <p>Concentration: &lt;20 mg/L</p>
Oro Loma and Castro Valley Sanitary Districts	<p><b>Description:</b> The Discharger is converting its existing activated sludge process to a Modified Ludzack-Ettinger Process. This new process will nitrify and denitrify all dry weather flows. This project includes the construction of a fourth aeration train, a retrofit of existing mechanical aerators to fine bubble diffusers, the installation of six high efficiency blowers, and all associated process instrumentation.</p> <p><b>Schedule:</b> Completion by 2020.</p>	<p>Load reduction: &gt;50%</p> <p>Concentration: &lt;15 mg/L during dry weather</p>
City of Palo Alto	<p><b>Description:</b> The Discharger will convert existing nitrifying aeration basins into a biological nutrient removal process.</p> <p><b>Schedule:</b> Completion by 2023.</p>	<p>Load reduction: &gt;40%</p> <p>Concentration: &lt;15 mg/L</p>
City and County of San Francisco (San Francisco International Airport)	<p><b>Description:</b> The Discharger will add sequencing batch reactor tanks to its existing three sequencing batch reactor tanks to implement biological nutrient removal.</p> <p><b>Schedule:</b> Completion of the additional sequencing batch reactor tanks by 2022.</p>	Concentration: <15 mg/L
City of San Mateo	<p><b>Description:</b> The Discharger is adding membrane bioreactors for biological nutrient removal to its treatment plant as part of its Wastewater Treatment Plant Nutrient Removal and Wet Weather Flow Management Upgrade and Expansion Project. The biological nutrient removal process will have a design capacity of 21 MGD and the ability to treat up to 42 MGD during peak wet weather events.</p> <p><b>Schedule:</b> Completion by 2024.</p>	<p>Load reduction: &gt;50%</p> <p>Concentration: &lt;15 mg/L</p>
City of Sunnyvale	<p><b>Description:</b> The Discharger currently removes an annual average of approximately 60 percent of total nitrogen from its influent by using oxidation ponds year-round. As part of the Sunnyvale Cleanwater</p>	<p>Load reduction: &gt;20%</p> <p>Concentration: &lt;12 mg/L</p>

	<p>Program, the Discharger is replacing its secondary treatment facilities with a Modified Ludzak-Ettinger process. A portion of this new system will consist of two aeration basins, four secondary clarifiers, and associated appurtenances. The system will operate in parallel with the existing secondary treatment system (oxidation ponds, fixed-growth reactor nitrification, and dissolved air flotation), where two-thirds of primary-treated flow will be treated by the Modified Ludzak-Ettinger process and the remaining one-third of the flow will be treated by the existing secondary treatment system.</p> <p><b>Schedule:</b> Completion by 2025.</p>	
<p>U.S. Department of Navy (Treasure Island) <sup>[1]</sup></p>	<p><b>Description:</b> The Discharger will replace its treatment plant with a new water recycling facility that will incorporate nitrification and denitrification in its treatment processes and will produce an average dry weather flow of 1.3 MGD of Title 22 disinfected tertiary-treated recycled water. The incorporation of denitrification and the resulting increase in recycled water production are expected to significantly reduce nitrogen loading.</p> <p><b>Schedule:</b> Completion by 2022.</p>	<p>Concentration: &lt;8.1 mg/L</p>

Footnote:

<sup>[1]</sup> The U.S. Department of Navy plans to transfer ownership of the Treasure Island Wastewater Treatment Plant to the City and County of San Francisco. The City and County of San Francisco will own the new treatment plant and associated nutrient reduction upgrades.

Dischargers who cannot immediately comply with any effluent limitations imposed in 2024 could apply for a compliance schedule if they meet the requirements of State Resolution No. 2008-0025 (Compliance Schedule Policy). To obtain compliance schedules, Dischargers must, among other requirements, demonstrate that they need time to implement actions necessary to comply with the effluent limitations (e.g., time to design and construct facilities and secure financing). In addition to meeting the requirements of the Compliance Schedule Policy, a Discharger who commits to robust master planning efforts to reduce nutrient discharges could be well positioned to justify and receive a compliance schedule.

### III. APPLICABLE PLANS, POLICIES, AND REGULATIONS

#### A. Legal Authorities

This Order serves as WDRs pursuant to California Water Code article 4, chapter 4, division 7 (commencing with § 13260) for discharges to waters of the State. This Order is also issued pursuant to Clean Water Act (CWA) section 402 and implementing regulations adopted by U.S. EPA, and Water Code chapter 5.5, division 7 (commencing with § 13370). It shall serve as an NPDES permit for point source municipal discharges of nutrients to surface waters from the named facilities listed in Attachment B of this Order.

#### B. California Environmental Quality Act

Under Water Code section 13389, this action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (CEQA), Public Resources Code division 13, chapter 3 (commencing with § 21100).

### C. State and Federal Regulations, Policies, and Plans

- 1. Water Quality Control Plan.** The Regional Water Board adopted the *Water Quality Control Plan for the San Francisco Bay Basin* (Basin Plan), which designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. The Basin Plan’s narrative biostimulatory substances objective states, “Waters shall not contain biostimulatory substances in concentrations that promote aquatic growths to the extent that such growths cause nuisance or adversely affect beneficial uses.” Requirements in this Order implement the Basin Plan. In addition, this Order implements State Water Board Resolution No. 88-63, which establishes State policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. Beneficial uses applicable to San Francisco Bay and its tributaries are as shown below:

**Table F-7. Beneficial Uses**

Discharge Point	Receiving Water Name	Beneficial Uses
001	San Francisco Bay and its tributaries <sup>[1]</sup>	Agricultural Supply (AGR) Cold Freshwater Habitat (COLD) Ocean, Commercial, and Sport Fishing (COMM) Estuarine Habitat (EST) Industrial Service Supply (IND) Marine Habitat (MAR) Fish Migration (MIGR) Municipal and Domestic Supply (MUN) Navigation (NAV) Industrial Process Supply (PROC) Preservation of Rare and Endangered Species (RARE) Water Contact Recreation (REC1) Non-Contact Water Recreation (REC2) Shellfish Harvesting (SHELL) Fish Spawning (SPWN) Warm Freshwater Habitat (WARM) Wildlife Habitat (WILD)

Footnote:

<sup>[1]</sup> Specific beneficial uses that apply to each discharge are identified in the individual NPDES permits listed in Attachment B.

- 2. Anti-Backsliding Requirements.** CWA sections 402(o) and 303(d)(4) and 40 C.F.R. section 122.44(l) restrict backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit be as stringent as those in the previous order, with some exceptions in which limitations may be relaxed. (See Fact Sheet section IV.D.1.)
- 3. Antidegradation Policy.** Federal regulations at 40 C.F.R. section 131.12 require that state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California’s antidegradation policy through State Water Board Resolution No. 68-16, *Statement of Policy with Respect to Maintaining High Quality of Waters in California*, which is deemed to incorporate the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Basin Plan implements, and incorporates by reference, both the State and federal antidegradation policies.

Permitted discharges must be consistent with the antidegradation provisions of 40 C.F.R. section 131.12 and State Water Board Resolution No. 68-16. (See Fact Sheet section IV.D.2.)

- 4. Endangered Species Act Requirements.** This Order does not authorize any act that results in the taking of a threatened or endangered species or any act that is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code §§ 2050 to 2097) or the Federal Endangered Species Act (16 U.S.C.A. §§ 1531 to 1544). This Order requires compliance with effluent limits, receiving water limits, and other requirements to protect beneficial uses, including protecting rare, threatened, or endangered species. The Discharger is responsible for meeting all Endangered Species Act requirements.

#### **D. Impaired Waters on CWA 303(d) List**

In July 2015, U.S. EPA approved a revised list of impaired California waters prepared pursuant to CWA section 303(d), which requires identification of specific water bodies where it is expected that water quality standards will not be met after implementation of technology-based effluent limitations on point sources. Where it has not done so already, the Regional Water Board plans to adopt TMDLs for pollutants on the 303(d) list. TMDLs establish wasteload allocations for point sources and load allocations for non-point sources and are established to achieve the water quality standards for the impaired waters. No San Francisco Bay segment is listed as impaired by nutrients.

### **IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS**

The CWA requires point source dischargers to control the amount of conventional, non-conventional, and toxic pollutants discharged into waters of the United States. The control of pollutants discharged is established through effluent limitations and other requirements in NPDES permits. There are two principal bases for effluent limitations: 40 C.F.R. section 122.44(a) requires that permits include applicable technology-based limitations and standards; and 40 C.F.R. section 122.44(d) requires that permits include water quality-based effluent limitations to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of receiving waters.

At this time, there is insufficient evidence to conclude that nutrients cause or contribute to excursions of the narrative water quality objective for biostimulatory substances. Therefore, this Order does not include water quality-based effluent limitations for nutrients and no additional discharge prohibitions beyond those already specified in the Dischargers' individual NPDES permits are necessary.

- A. Anti-backsliding.** This Order does not backslide because, like the previous order, it does not contain nutrient effluent limitations, nor does it relax effluent limitations in existing permits (those permits also do not include nutrient effluent limitations). Therefore, this Order complies with the anti-backsliding provisions of CWA sections 402(o) and 303(d)(4) and 40 C.F.R. section 122.44(l), which generally require effluent limitations in a reissued permit to be as stringent as those in the previous permit.
- B. Antidegradation.** Federal regulations at 40 C.F.R. section 131.12 require that state water quality standards include an antidegradation policy consistent with the federal policy. The State Water

Board established California's antidegradation policy through State Water Board Resolution No. 68-16. This Order covers existing discharges, all of which have been covered by individual NPDES permits adopted in accordance with antidegradation policies. According to a State Water Board guidance memorandum (William Attwater, Chief Counsel, October 7, 1987), considerations in determining whether to perform an antidegradation analysis include the following:

- whether there are new discharges or an expansion of existing facilities;
- whether there would be a reduction in the level of treatment of an existing discharge;
- whether an existing outfall has been relocated;
- whether there has been a substantial increase in mass emissions; and
- whether there has been a change in water quality from a point source or nonpoint source discharge or water diversion.

None of these conditions apply to this Order. Moreover, no antidegradation analysis is required when the Regional Water Board has no reason to believe that baseline water quality will be reduced. Baseline quality is the best quality of the receiving water that has existed since 1968 when considering Resolution 68-16, or since 1975 under the federal policy, unless subsequent lowering was due to regulatory action consistent with State and federal antidegradation policies.

If poorer water quality was permitted, the most recent water quality resulting from permitted action is the baseline water quality to be considered in any antidegradation analysis. Because all the individual NPDES permits were adopted in accordance with the antidegradation policies, the baseline for evaluating antidegradation is the existing water quality resulting from the individual permits. This Order does not allow for any increase in permitted design flow nor allow for any reduction in treatment. Therefore, no findings justifying degradation are necessary.

**C. Stringency of Requirements for Individual Pollutants.** This Order's discharge specifications are no more stringent than required to implement CWA requirements.

## **V. RATIONALE FOR RECEIVING WATER LIMITATIONS**

This Order retains receiving water limitations that apply to biostimulatory substances as set forth in the individual NPDES permits listed in Attachment B. These limitations are based on the Basin Plan's water quality objective for biostimulatory substances (Basin Plan section 3.3.3).

## **VI. RATIONALE FOR PROVISIONS**

### **A. Standard Provisions**

Attachment D of each individual NPDES permit contains standard provisions that apply to all NPDES permits in accordance with 40 C.F.R. section 122.41 and additional conditions applicable to specific categories of permits in accordance with 40 C.F.R. section 122.42. Dischargers must comply with these provisions.

In accordance with 40 C.F.R. section 123.25(a)(12), states may omit or modify conditions to impose more stringent requirements. Attachment G of each individual NPDES permit contains sampling and reporting requirements and additional standard provisions that supplement the federal standard provisions in Attachment D. This Order omits the federal conditions that address enforcement authority specified in 40 C.F.R. sections 122.41(j)(5) and (k)(2) because the State's

enforcement authority under the Water Code is more stringent. In lieu of these conditions, this Order incorporates Water Code section 13387(e) by reference.

## **B. Monitoring and Reporting**

CWA section 308 and 40 C.F.R. sections 122.41(h), 122.41(j)-(l), 122.44(i), and 122.48 require that NPDES permits specify monitoring and reporting requirements. Water Code sections 13267 and 13383 also authorize the Regional Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. The MRP establishes monitoring, reporting, and recordkeeping requirements that implement federal and State requirements. For more background regarding these requirements, see Fact Sheet section VII.

## **C. Special Provisions**

### **1. Reopener Provisions**

These provisions are based on 40 C.F.R. sections 122.62 and 122.63 and allow modification of this Order as necessary in response to updated water quality standards, regulations, or other new and relevant information that may become available in the future, and other circumstances as allowed by law.

### **2. Regional Evaluation of Potential Nutrient Discharge Reduction by Natural Systems**

This Order requires major Dischargers to evaluate, by themselves or in collaboration with others, the potential for natural systems (e.g., wetlands creation) to reduce nutrient loads to San Francisco Bay. This information is necessary to understand the extent that Dischargers, individually and on a subembayment scale, may be able to reduce nutrient loads while providing additional environmental and societal benefits (e.g., removal of emerging contaminants, creation of habitat, or protection against sea level rise). The Regional Water Board will consider establishing nutrient effluent limitations in 2024 based on performance, with the possibility of more stringent effluent limitations if found necessary based on the most recently available scientific findings. The Regional Water Board expects that the results from this provision, in conjunction with the results from Provision VI.C.3 and the Bay Area Clean Water Agencies' (BACWA's) *Nutrient Reduction Study – Potential Nutrient Reduction by Treatment Optimization, Sidestream Treatment, Treatment Upgrades, and Other Means* (June 22, 2018), will provide the Dischargers a range of nutrient reduction options to meet potential effluent limitations on a subembayment scale and in a cost-effective manner. If nutrient reductions are required for San Francisco Bay, the Regional Water Board's overarching goal would be to achieve nutrient load reductions through implementation of a regional plan encompassing cost-effective and multiple-benefit nutrient reduction options. This Order requires major Dischargers to evaluate nutrient reduction opportunities through natural systems, which would be a component of such a plan. The Regional Water Board recognizes the efficiency of collaborating on large-scale study efforts. On behalf of the Dischargers, BACWA has identified \$500,000 for collective efforts, and the Regional Water Board finds this amount to be an appropriate level of funding to support the studies identified in this provision.<sup>10</sup>

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<sup>10</sup> The \$500,000 does not include costs to comply with other provisions of this Order or funds Dischargers otherwise contribute to the Regional Monitoring Program.

Major facilities are those with a design flow greater than or equal to 1.0 MGD. While most San Francisco Bay nutrient loads are from municipal wastewater treatment plants with design flows greater than 10 MGD, this Order requires all major facilities to evaluate the potential for nutrient load reduction by natural systems because Dischargers with a facility design flow less than 10 MGD may also be contributing to localized impacts in San Francisco Bay. Therefore, major Dischargers with flows greater than or equal to 1.0 MGD and less than or equal to 10 MGD may also need to reduce their nutrient loads.

This provision is authorized by Clean Water Act section 1318(a) and Water Code section 13383. Clean Water Act section 1318(a) authorizes the collection of information necessary to carry out the objectives of the Clean Water Act, including but not limited to developing or assisting in the development of any effluent limitation, other limitation, prohibition, effluent standard, pretreatment standard, or standard of performance. Water Code section 13383 authorizes the Regional Water Board to establish monitoring, reporting, and recordkeeping requirements for NPDES dischargers. It also authorizes the Regional Water Board to require NPDES dischargers to provide other information as may be reasonably required.

### **3. Regional Evaluation of Potential Nutrient Discharge Reduction by Water Recycling**

This Order requires major Dischargers to evaluate, by themselves or in collaboration with others, the potential for water recycling to reduce nutrient loads to San Francisco Bay. This information is necessary to understand the extent that Dischargers, individually and on a subembayment scale, may be able to reduce nutrient loads while providing additional environmental and societal benefits (e.g., reduced natural water resource diversion, reduced demand for potable water, or reduced discharges of contaminants of emerging concern). The Regional Water Board expects that the results from this provision, in conjunction with the results from Provision VI.C.2 and the Bay Area Clean Water Agencies' (BACWA's) *Nutrient Reduction Study – Potential Nutrient Reduction by Treatment Optimization, Sidestream Treatment, Treatment Upgrades, and Other Means* (June 22, 2018), will provide the Dischargers a range of nutrient reduction options to meet potential effluent limitations on a subembayment scale and in a cost-effective manner, and will help identify an approach for developing a regional master plan that addresses multiple environmental benefits. If nutrient reductions are required for San Francisco Bay, the Regional Water Board's overarching goal would be to achieve nutrient load reductions through implementation of a regional plan encompassing cost-effective and multiple-benefit nutrient reduction options. This Order requires major Dischargers to evaluate nutrient reduction opportunities through wastewater recycling, which would be a component of such a plan.

Major facilities are those with a design flow greater than or equal to 1.0 MGD. While most San Francisco Bay nutrient loads are from municipal wastewater treatment plants with design flows greater than 10 MGD, this Order requires all major facilities to evaluate the potential for nutrient load reduction by water recycling because Dischargers with a facility design flow less than 10 MGD may also be contributing to localized impacts in San Francisco Bay. Therefore, major Dischargers with flows greater than or equal to 1.0 MGD and less than or equal to 10 MGD may also need to reduce their nutrient loads.

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assisting in the development of any effluent limitation, other limitation, prohibition, effluent standard, pretreatment standard, or standard of performance. Water Code section 13383 authorizes the Regional Water Board to establish monitoring, reporting, and recordkeeping requirements for NPDES dischargers. It also authorizes the Regional Water Board to require NPDES dischargers to provide other information as may be reasonably required.

#### **4. Monitoring, Modeling, and Subembayment Studies**

This Order requires the Dischargers to conduct, by themselves or in collaboration with others, studies to address the potential impacts of nutrients on San Francisco Bay beneficial uses. These studies would be supported by receiving water monitoring and modeling efforts. The Regional Water Board recognizes there are efficiencies from collaborating on large-scale studies. BACWA has identified \$2.2 million<sup>11</sup> per year for five years for collective efforts, and the Regional Water Board finds this amount to be an appropriate level of funding to support receiving water monitoring and science plan development and implementation as described in this provision. If the Dischargers and BACWA are successful in securing additional resources, such as from grants or other agencies, for nutrient monitoring or studies identified in the science plan, the additional funding would not count toward the Dischargers' level of effort under this provision.

The Regional Water Board recognizes that, before and during the previous order term, the Dischargers have contributed over \$7 million directly and through the Regional Monitoring Program to fund scientific studies examining the impact of nutrients on San Francisco Bay and have conducted facility nutrient monitoring since July 2012. The Dischargers also collaborated with other regional stakeholders to develop a science plan and governance structure to guide scientific research on nutrient impacts through the San Francisco Bay Nutrient Management Strategy.

The San Francisco Bay Nutrient Management Strategy seeks to determine:

- Conditions in San Francisco Bay that would define nutrient impairment;
- Risks of nutrient impairment under future scenarios (i.e., if San Francisco Bay conditions change);
- Responses of San Francisco Bay habitats to nutrient loads;
- Contributions of individual nutrient sources to nutrient levels in San Francisco Bay; and
- Actions necessary to mitigate current or prevent future nutrient impairment.

Support for receiving water monitoring will provide necessary data to model San Francisco Bay nutrient loads, determine San Francisco Bay's response to nutrient loads, and inform the development and implementation of strategies to manage these nutrient loads (e.g., by implementing nutrient effluent limitations). Modeling efforts would determine San Francisco Bay's assimilative capacity and identify what nutrient discharges are protective of San Francisco Bay's beneficial uses based on the ecological response (e.g., excessive algal blooms leading to decreased dissolved oxygen). Furthermore, modeling could link response indicators to nutrient loads and identify management controls for a range of potential future conditions. In this way, modeling may be used to link nutrient loads with other factors (e.g., strength of tides, residence time, clam grazing, and increases and decreases in turbidity) and

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<sup>11</sup> The \$2.2 million identified by BACWA does not include costs to comply with other provisions of this Order or funds Dischargers contribute to the Regional Monitoring Program.

delineate subembayments based on the fate of nutrient loads under conditions unique to each San Francisco Bay segment. Understanding how such factors influence nutrient loads on a subembayment scale will provide more accurate information on the relative importance of reducing nutrient loads from certain Dischargers.

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## **VII. RATIONALE FOR MONITORING AND REPORTING PROGRAM (MRP)**

Attachment E contains the MRP for this Order. It specifies monitoring locations, monitoring frequencies, and reporting requirements. The following provides the rationale for these requirements.

This Order requires Dischargers to monitor and report nitrogen and phosphorus in influent and effluent to track nutrient speciation entering their treatment plants, optimize nutrient removal efficiencies, inform treatment plant upgrade designs, and evaluate discharge trends. The specified monitoring frequencies reflect Discharger size. The MRP requires larger Dischargers to monitor more frequently because larger Dischargers have larger nutrient loads and because they have more resources to conduct the monitoring. As such, Dischargers with a facility design flow less than or equal to 10 MGD are not required to monitor influent for nitrogen and phosphorus.

This Order also requires the Dischargers to support receiving water monitoring to enable load-response modeling, track nutrient trends over time, and identify harmful algae blooms and associated toxins. These requirements are necessary because San Francisco Bay may be becoming less resistant to nutrient discharges and municipal wastewater treatment facilities are the primary source of San Francisco Bay nutrient loads. Furthermore, the need for nutrient management controls can be informed by an improved understanding of the fate and transport of nutrients in San Francisco Bay.

Finally, this Order requires Dischargers to submit an annual report, either individually or as a group. Dischargers are required to summarize monitoring data and evaluate nutrient load and concentration trends. This information is necessary to monitor any changes in nutrient loads from the Dischargers' current performance. This will allow for a better understanding of why nutrient loads may change and help identify controllable measures for nutrient load reduction. Additionally, this Order requires that Dischargers report nutrient loads from their respective subembayments so they can evaluate load trends by subembayment and identify cost-effective nutrient load reduction approaches and generate a potential framework for a nutrient credit trading system.

## **VIII. PUBLIC PARTICIPATION**

The Regional Water Board considered the issuance of WDRs that will serve as an NPDES permit for point source discharges of nutrients from the Dischargers' facilities. As a step in the WDR adoption process, Regional Water Board staff developed tentative WDRs and encouraged public participation in the WDR adoption process.

- A. Notification of Interested Parties.** The Regional Water Board notified the Dischargers and interested agencies and persons of its intent to prescribe WDRs for the discharges and provided an opportunity to submit written comments and recommendations. The Regional Water Board provided notification to the Dischargers and other interested parties by transmitting electronic copies of the tentative WDRs. In addition, the Regional Water Board published a notice through the *Oakland Tribune*. The public had access to the agenda and any changes in dates and locations through the Regional Water Board's website at <http://www.waterboards.ca.gov/sanfranciscobay>.
- B. Written Comments.** Interested persons were invited to submit written comments concerning the tentative WDRs as explained through the notification process. Comments were to be submitted either in person or by mail to the Executive Officer at the Regional Water Board at 1515 Clay Street, Suite 1400, Oakland, California 94612, to the attention of James Parrish.

For full staff response and Regional Water Board consideration, the written comments were due at the Regional Water Board office by 5:00 p.m. on **April 2, 2019**.

- C. Public Hearing.** The Regional Water Board held a public hearing on the tentative WDRs during its regular meeting at the following date and time, and at the following location:

Date: **May 8, 2019**  
Time: 9:00 am  
Location: Elihu Harris State Office Building  
1515 Clay Street, 1<sup>st</sup> Floor Auditorium  
Oakland, CA 94612

Contact: James Parrish, (510) 622-2381, James.Parrish@waterboards.ca.gov.

Interested persons were invited to attend. At the public hearing, the Regional Water Board heard testimony pertinent to the discharge, WDRs, and permit. For accuracy of the record, important testimony was requested to be in writing.

Dates and venues change. The Regional Water Board web address is <http://www.waterboards.ca.gov/sanfranciscobay>, where one could access the current agenda for changes in dates and locations.

- D. Reconsideration of Waste Discharge Requirements.** Any aggrieved person may petition the State Water Board to review the Regional Water Board decision regarding the final WDRs. The State Water Board must receive the petition at the following address within 30 calendar days of the Regional Water Board action:

State Water Resources Control Board  
Office of Chief Counsel  
P.O. Box 100, 1001 I Street  
Sacramento, CA 95812-0100

For instructions on how to file a petition for review, see [http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality/wqpetition\\_instr.shtml](http://www.waterboards.ca.gov/public_notices/petitions/water_quality/wqpetition_instr.shtml).

- E. Information and Copying.** The tentative order, related supporting documents, and comments received are on file and may be inspected at the address above at any time between 9:00 a.m. and

5:00 p.m., Monday through Friday. Copying of documents may be arranged by calling (510) 622-2300.

**F. Register of Interested Persons.** Any person interested in being placed on the mailing list for information regarding the WDRs and NPDES permit should contact the Regional Water Board, reference the Facility, and provide a name, address, and phone number.

**G. Additional Information.** Requests for additional information or questions regarding this Order should be directed to James Parrish, at (510) 622-2381, or James.Parrish@waterboards.ca.gov.