

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

ORDER R5-2022- 0064

AMENDING
ORDER R5-2021-0019
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
CA0077682

SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT
SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT
SACRAMENTO COUNTY

FINDINGS

The California Regional Water Quality Control Board, Central Valley Region, (hereafter Central Valley Water Board) finds that:

1. On 22 April 2021, the Central Valley Water Board adopted Waste Discharge Requirements Order R5-2021-0019, prescribing waste discharge requirements for the Sacramento Regional Wastewater Treatment Plant. For the purposes of this Order, the Sacramento Regional County Sanitation District is hereafter referred to as “Discharger” and the Sacramento Regional Wastewater Treatment Plant is hereafter referred to as “Facility.”
2. Waste Discharge Requirements Order R5-2021-0019 (NPDES Permit No. CA0077682) authorizes the discharge of up to 181 million gallons per day of treated municipal wastewater to the Sacramento River, a water of the United States and within the legal boundary of the Sacramento-San Joaquin Delta.
3. The Facility’s treatment system consists of mechanical bar screens, aerated grit removal, primary sedimentation, air activated sludge, secondary clarification, chlorine disinfection with dechlorination and a diffuser for river discharge. Solids handling consists of dissolved air flotation thickeners, gravity belt thickeners, anaerobic digesters and sludge stabilization basins with disposal on-site through land application or biosolids recycling facility. Wastewater is discharged to the Sacramento River at Freeport, a water of the United States.
4. The Discharger is currently conducting major facility upgrades known as the EchoWater Project to comply with the effluent water quality requirements specified by Order R5-2016-0020. The EchoWater Project has been subdivided into multiple individual projects, which are being designed and constructed. One component of this project is the Tertiary Treatment Facilities (TTF) project, which will use tertiary filtration and disinfection to treat secondary effluent from a new EchoWater Biological Nutrient Removal (BNR) facility. The TTF project is the last major component in the EchoWater Project. TTF has a compliance date of 9 May 2023 and is scheduled for completion before the compliance date. Once completed, the TTF will replace the existing Water

Reclamation Facility filters, and supply Title 22 equivalent recycled water to existing and future users.

5. The Discharger requested an amendment to Order R5-2021-0019 to include the production of recycled water by the EchoWater Project in accordance with the 2018 conditionally accepted Title 22 Engineering Report by the Division of Drinking Water. This Order amends Order R5-2021-0019 to include production of recycled water by the Discharger's Facility.
6. Order R5-2021-0019 may be reopened and modified in accordance with 40 CFR § 122.62(a)(2).
7. Issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Pub. Resources Code, § 21000 et seq.) ("CEQA") pursuant to Water Code section 13389, since the adoption or modification of a NPDES permit for an existing source is statutorily exempt and this Order only serves to implement a NPDES permit. (Pacific Water Conditioning Ass'n, Inc. v. Discharger Council of Discharger of Riverside (1977) 73 Cal.App.3d 546, 555-556.). Issuance of this Order is also exempt from the provisions of CEQA in accordance with California Code of Regulations (CCR), title 14, section 15321, subdivision (a)(2).
8. The Central Valley Water Board has notified the Discharger and interested agencies and persons of its intent to amend Waste Discharge Requirements for this discharge and has provided them with an opportunity to submit their written views and recommendations.

BOARD ACTION
IT IS HEREBY ORDERED THAT:

Effective immediately, Waste Discharge Requirements Order R5-2021-0019 (NPDES CA0077682) is amended solely as shown in items 1 through 20, below.

1. The Order number is changed from R5-2021-0019 to R5-2021-0019-01 throughout the Order.
2. **Cover Page.** Modify the last paragraph to the text shown below:

I, PATRICK PULUPA, 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, Central Valley Region, on **22 April 2021** and amended by Order R5-2022-0064 on **14 October 2022**.
3. Discharge Prohibitions, Section III. Modify the following Section III.A as shown below:
 - A. Discharge of wastewater from the Facility, as the Facility is specifically described in the Fact Sheet in sections II.A and II.B, in a manner different from that described in this Order is prohibited, with the exception of the disinfected secondary effluent

and tertiary effluent that may be reclaimed for dust control and compaction on construction projects, landscape irrigation, wash down water, vehicle washing and grounds maintenance within the Facility boundaries, and for flushing of pipelines within the sewer collection system. It may also be used for in-plant process water and fire protection.

4. Section IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS. Insert the following Sections IV.C.1, and IV.C.2 beneath Section IV.C as shown below:
 1. Until the Discharger is enrolled under Order WQ 2016-0068-DDW, recycling specifications applicable to the Discharger are included in Master Reclamation Permit 97-146.
 2. **Production of Disinfected Tertiary Recycled Water for Distribution.** Enrollment under the State Water Board Water Quality Order WQ 2016-0068-DDW, Water Reclamation Requirements for Recycled Water Use, provides coverage for the distribution and use of Title 22 disinfected tertiary recycled water. The Discharger submitted a Revised Engineering Report dated July 2018 prepared pursuant to Title 22, section 60323, which was conditionally accepted by the State Water Board Division of Drinking Water (DDW) per the conditional acceptance letter dated 5 October 2018. Hereinafter the term "conditionally accepted Title 22 Engineering Report" refers to the 2018 conditionally accepted Title 22 Engineering Report or any subsequently revised Title 22 Engineering Report that has been conditionally accepted by DDW.

When producing Title 22 disinfected tertiary recycled water for use under Order WQ 2016-0068-DDW, the Discharger shall meet the recycling specifications below:

- a. The Discharger shall operate the Facility consistent with a conditionally accepted Title 22 Engineering Report.
- b. Prior to implementing any changes in operations, for the production of recycled water, the Discharger shall revise the Title 22 Engineering Report and receive DDW conditional acceptance.
- c. The Discharger shall operate the Facility in accordance with DDW approved Standard Operating Procedures (SOP) that specify the operational limits, critical alarms, and responses to alarms for the high loading rate filtration and free chlorine treatment processes consistent with the conditionally accepted Title 22 Engineering Report.
- d. Wastewater shall be oxidized, filtered, and adequately disinfected pursuant to the State Water Board, DDW reclamation criteria, CCR, Title 22, division 4, chapter 3, including any alternative treatment technology per the conditionally accepted Title 22 Engineering Report.

- e. For discharges of recycled water, the Discharger shall comply with the operating specifications per the conditionally accepted Title 22 Engineering Report as follows:
 - i. **Filtration System Operating Specifications.** The combined filter effluent turbidity measured at FIL-001, as described in the Monitoring and Reporting Program (MRP), Attachment E, shall not exceed any of the following:
 - (a) 1.5 nephelometric turbidity units (NTU) as 24-hour average;
 - (b) 2.5 NTU more than 5 percent of the time within a 24-hour period; and
 - (c) 5 NTU at any time.
 - ii. **Total Coliform Organisms.** Effluent total coliform organisms shall not exceed the following, with compliance measured at Monitoring Location REC-001 as described in the MRP, Attachment E:
 - (a) 2.2 most probable number per 100 milliliters (MPN/100 mL), as a 7-day median;
 - (b) 23 MPN/100 mL, more than once in any 30-day period; and
 - (c) 240 MPN/100 mL, at any time.
 - iii. The Discharger shall demonstrate compliance with all remaining operating specifications per the conditionally accepted Title 22 Engineering Report within the monthly Self-Monitoring Reports as required in the Monitoring and Reporting Program (Attachment E, Section X.D.6).

5. Section VI. PROVISIONS. Modify the following Section VI.C.4 as shown below:

4. Construction, Operation and Maintenance Specifications

- a. **Filtration System Operating Specifications. Effective 9 May 2023, when discharging to surface water,** to ensure the filtration system is operating properly to provide adequate disinfection of the wastewater, per the conditionally accepted Title 22 Engineering Report the turbidity of the filter effluent measured at Monitoring Location FIL-001 shall not exceed the following:
 - i. 1.5 NTU as a 24-hour average;
 - ii. 2.5 NTU more than 5 percent of the time within a 24-hour period; and
 - iii. 5 NTU, at any time.

6. Section VI. PROVISIONS. Modify the following Section VI.C.6 as shown below:

6. Other Special Provisions

- a. **Seasonal Title 22, or Equivalent, Disinfection Requirements. Effective 9 May 2023**, from 1 May to 31 October, when discharging to surface water, wastewater shall be oxidized, filtered, and adequately disinfected pursuant to the DDW reclamation criteria, CCR, Title 22, division 4, chapter 3, (Title 22), or equivalent, consistent with the conditionally accepted Title 22 Engineering Report, in accordance with the compliance schedule in section VI.C.7.a.

7. Attachment E – Monitoring and Reporting Program (MRP), Section II. MONITORING LOCATIONS. Only sections of the table with changes are shown. Modify Table E-1 Monitoring Station Locations to add Monitoring Location Name for REC-001:

Table E-1. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
--	REC-001	A location where a representative sample of recycled water can be obtained. This location is for purposes of determining compliance with recycled water discharge specifications, Section IV.C of this Order.

8. Attachment E – Monitoring and Reporting Program (MRP), Section VII. RECYCLING MONITORING REQUIREMENTS. Insert sections VII.A.1, and VII.A.2 as shown below:

A. Monitoring Location REC-001

- 1. Upon completion of tertiary upgrades to the Facility, the Discharger shall monitor discharge from the Facility to the recycled water program at Monitoring Location REC-001 in accordance with Table E-7.

Table E-7 Recycled Water Monitoring – Monitoring Location REC-001

Parameter	Units	Sample Type	Minimum Sampling Frequency
Turbidity	NTU	Meter	Continuous
Total Coliform Organisms	MPN/100 mL	Grab	1/Day

2. The Discharger shall comply with the following testing requirements when monitoring for the parameters described in Table E-7.
 - a. **Applicable to all parameters.** Parameters shall be analyzed using the analytical methods described in 40 C.F.R. part 136 or by methods approved by the Central Valley Water Board or the State Water Board. In addition, if requested by the Discharger, the sample type may be modified by the Executive Officer to another 40 C.F.R. part 136 allowed sample type. The Discharger may use the Hach 5300 having received U.S. EPA approval of Hach 10258.
 - b. **Continuous Analyzers.** The Discharger shall report documented routine meter maintenance activities including date, time of day, and duration in which the analyzer(s) is not in operation. If analyzer(s) fail to provide continuous monitoring for more than two hours, the Discharger shall obtain and report hourly manual and/or grab sample results.
 - c. **Turbidity.** Monitor and report daily average and maximum turbidity as a 15-minute average. Turbidity samples shall be taken at monitoring location FIL-001. The Turbidity monitoring sample location FIL-001 in Table E-1 meets the requirements for REC-001. Turbidity is reported as FIL-001 for NPDES reporting purposes and REC-001 for recycled water compliance reports.
 - d. **Total Coliform Organisms.** Samples for total coliform organisms shall be collected after chlorination and prior to dechlorination. The sample must be dechlorinated immediately after sample collection. Total coliform organisms samples from TER-001 may be used to meet this requirement when seasonal diversion does not occur.
 - e. Daily minimum free residual chlorine, modal contact time, and free chlorine residual contact time all shall be measured and reported as a 5-minute average.
9. Attachment E – Monitoring and Reporting Program (MRP), Section X. REPORTING REQUIREMENTS. Insert Section X.D.6 and X.D.7 as shown below:
 6. **Title 22 Recycled Water Compliance Report.** The Discharger shall, on a monthly basis, certify in the monthly Self-Monitoring Report regarding the Facility's compliance with the Recycling Specifications in Section IV.C of this Order. The following information shall be included to demonstrate compliance:
 - a. Monthly minimum free residual chlorine (as 5-minute average);
 - b. Monthly minimum modal chlorine contact time (as 5-minute average);

- c. Monthly minimum free chlorine residual contact time (as a 5-minute average);
- d. Monthly maximum instantaneous individual filter loading rate (as 15-minute average);
- e. Monthly maximum 24-hour average filter effluent turbidity;
- f. Monthly instantaneous maximum filter effluent turbidity (as 15-minute average);
- g. Monthly maximum secondary effluent turbidity upstream of filtration (as a 15- minute average)
- h. Monthly maximum effluent total coliform organisms; and
- j. Monthly maximum 7-day median effluent total coliform organisms;

The Discharger shall certify in the monthly Self-Monitoring Report that the Facility complied with the conditionally accepted Title 22 Engineering Report and Section IV.C of this Order. If non-compliance occurs, the monthly report shall discuss the non-compliance incident(s), and actions taken to correct the non-compliance. Upon request by Central Valley Water Board staff or DDW staff, the Discharger shall submit all monitoring data and information used to demonstrate compliance with the conditionally accepted Title 22 Engineering Report and Section IV.C of this Order. The Title 22 Recycled Water Compliance Reports shall include certification by the Discharger's legally responsible officer under penalty of perjury.

7. Recycled Water Policy Annual Reports.

In accordance with Section 3 of the Water Quality Control Policy for Recycled Water (Recycled Water Policy), the Discharger shall electronically submit an annual report of monthly data to the State Water Board by 30 April annually covering the previous calendar year using the State Water Board's GeoTracker website (<https://geotracker.waterboards.ca.gov/>). Information for setting up and using the GeoTracker system can be found in the ESI Guide for Responsible Parties document on the State Water Board's website for Electronic Submittal of Information (https://www.waterboards.ca.gov/ust/electronic_submittal/index.html).

The annual report to GeoTracker must include volumetric reporting of the items listed in Section 3.2 of the Recycled Water Policy (https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2018/121118_7_final_amendment_oal.pdf). A pdf of the upload confirmation from GeoTracker for the Recycled Water Policy Annual Report shall be

uploaded into CIWQS annually as a technical report per Table E-14, to demonstrate compliance with this reporting requirement.

Table E-14. Technical Reports

Report #	Technical Report	Due Date	CIWQS Report Name
9	Recycled Water Policy Annual Report Submittal Confirmation	30 April 2023	MRP X.D.7
10	Recycled Water Policy Annual Report Submittal Confirmation	30 April 2024	MRP X.D.7
11	Recycled Water Policy Annual Report Submittal Confirmation	30 April 2025	MRP X.D.7
12	Recycled Water Policy Annual Report Submittal Confirmation	30 April 2026	MRP X.D.7

10. Attachment F – Fact Sheet, Section I. PERMIT INFORMATION. Modify table F-1 as shown below:

Table F-1. Facility Information

Authorized Person to Sign and Submit Reports:	Christoph Dobson, District Engineer, (916) 876-6042
Recycling Requirements:	Producer

11. Attachment F – Fact Sheet, Section I. PERMIT INFORMATION. Modify Section ID.1 as shown below:

D. The Discharger filed a report of waste discharge (ROWD) and submitted an application for reissuance of its waste discharge requirements (WDR's) and NPDES permit on 2 July 2020. The application was deemed complete on 3 December 2020.

1. On 14 October 2022, this Order was amended by Order R5-2022-0064 to include Recycling Specifications for the production of disinfected tertiary recycled water and to update the operational specifications for turbidity.

12. Attachment F – Fact Sheet, Section II. FACILITY INFORMATION. Modify Section II, fifth paragraph, as shown below:

The Discharger currently provides up to 5.0 MGD of secondary treated wastewater to the Water Reclamation Facility (WRF) for treatment to Title 22 disinfected tertiary recycled water for unrestricted use, with a provision for WRF expansion to 10 MGD. The WRF is regulated under Master Reclamation Permit No. 97-146. Once the EchoWater Project Tertiary Treatment Facilities are fully operational, it will replace the existing Water Reclamation Facility for producing and supplying Title 22 disinfected tertiary recycled water to the existing recycled water users and future users. In

addition, regulation of the recycled water will change, with the production of recycled water regulated by this Order and the distribution and use of recycled water regulated under the State Water Board Statewide Recycled Water General Order, Water Quality Order WQ 2016-0068-DDW.

13. Attachment F – Fact Sheet, Section II. FACILITY DESCRIPTION. Modify Section II.A.2 as shown below:

2. **Future Facility.** Based on information provided by the Discharger, the Facility will be modified in order to comply with certain requirements in this Order, consistent with the applicable compliance deadlines. The future Facility and operation are as follows and differs seasonally.

The design capacity of the future Facility will remain 181 MGD. Facility modification to date include replacement of the existing pure oxygen biological treatment facilities with biological nutrient removal (BNR) air activated treatment facilities capable of removing ammonia and nitrate nitrogen. Future addition include tertiary treatment in the form of filtration with granular media filters, and the increase in the storage capacity. The Facility will continue to be staffed and operated 24 hours per day and will consist of influent pumps, septage receiving station, anaerobically digested material reception and storage facility, mechanical bar screening, aerated grit handling, grit classifiers that wash and dewater grit, covered primary sedimentation tanks, primary effluent pumping station and peak-shaving storage facilities, BNR air activated sludge treatment, nitrifying sequencing batch reactor for treating high ammonia concentration waste streams from solids storage basins and biosolids reclamation facility, secondary sedimentation, secondary effluent screen, filter influent pumping station, granular media filtration, disinfection with chlorine liquid in a covered disinfection contact basin, and dechlorination with sodium bisulfite. Compliant effluent can be diverted to the lined ESB's, as needed, to meet effluent dilution and thermal limits before discharge to the Sacramento River. Non-compliant effluent, primary influent or effluent, and raw wastewater can be diverted to the lined ESB's for any reason, including process upsets, or diversions for excess flows, and returned to the Facility influent for additional treatment. Odors are to be controlled through biological fixed media scrubbers, scrubbing tower, chemical oxidizing towers, and carbon treatment towers.

The BNR activated sludge treatment facilities is designed to process up to 330 MGD. Flows in excess of 330 MGD will be stored in peak-shaving storage facilities (ESB's) and returned for processing through the BNR facilities when capacity is available. All wastewater will receive advanced secondary treatment through the BNR facilities. The tertiary filters will be designed to process flows up to 217 MGD, measured as a daily average. This Order requires seasonal disinfection requirements and the Facility will be operated differently during each season, as follows:

- a. **1 May – 31 October.** The Facility will be operated to meet Title 22 or equivalent disinfection criteria, as described in Special Provision VI.C.6.a.
- b. **1 November – 30 April** (commencing 1 November 2023):

In the descriptions below, “filtered” means tertiary filtration of BNR effluent under filter operations consistent with the design hydraulic loading rate necessary to comply with the Title 22, or equivalent, disinfection criteria.

- i. When the BNR effluent flow is 217 MGD, or less, measured as a daily average, the entire BNR effluent flow will be filtered.
- ii. When the BNR effluent flow exceeds 217 MGD, up to 217 MGD will be filtered and the remaining wastewater will not be filtered. A portion of the filtered effluent may be reclaimed. The remaining filtered and non-filtered wastewater will be disinfected and combined with reclaimed water in excess of demands, prior to the dechlorination facilities.

One component of the Future Facility is the Tertiary Treatment Facilities (TTF) project, which will use tertiary filtration and disinfection to treat secondary effluent from the Biological Nutrient Removal (BNR) facility. The BNR portion of the project is complete. The TTF project is the last major component in the EchoWater Project to be completed and is scheduled for completion in the fall of 2022, followed by testing and optimization processes. Once the TTF project is fully operational, it will replace the existing Water Reclamation Facility for producing disinfected tertiary recycled water, and supply recycled water to the existing recycled water users and future users. The existing recycled water storage tank and distribution pumping station will remain in service.

14. Attachment F – Fact Sheet, Section II. FACILITY DESCRIPTION, Section II.A. Insert Section II.A.5 as shown below:
 5. **Reclamation and Reuse.** Consistent with Order R5-2016-0020-01, this Order allows the Discharger to reclaim disinfected secondary effluent and tertiary effluent for dust control and compaction on construction projects, landscape irrigation, wash down water, vehicle washing and grounds maintenance within the Facility boundaries, and for flushing of pipelines within the sewer collection system. It may also be used for in-plant process water and fire protection.
15. Attachment F – Fact Sheet, Section IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS, Section IV.A. Modify Section IV.A.1 as shown below:

1. **Prohibition III.A (No discharge or application of waste other than that described in this Order).** This prohibition is based on Water Code section 13260 that requires filing of a ROWD before discharges can occur. The Discharger submitted a ROWD for the discharges described in this Order; and therefore, any discharges not described in this Order are prohibited.

16. Attachment F – Fact Sheet, Section IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS. Modify Section IV.C.3.d.viii(c), second paragraph (Pathogens, WQBELs), as shown below:

Per the conditionally accepted Title 22 Engineering Report, the tertiary treatment process is capable of reliably treating wastewater to a turbidity level of 1.5 nephelometric turbidity units (NTU) as a 24-hour average. Failure of the filtration system such that virus removal is impaired would normally result in increased particles in the effluent, which result in higher filter effluent turbidity. Turbidity has a major advantage for monitoring filter performance. Coliform testing, by comparison, is not conducted continuously and requires several hours, to days, to identify high coliform concentrations. Therefore, to ensure compliance with the DDW recommended Title 22 disinfection criteria and ensure effective performance of the filters year-round, this Order includes operational specifications for turbidity per the conditionally accepted Title 22 Engineering Report of 1.5 NTU as a 24-hour average; 2.5 NTU, not to be exceeded more than 5 percent of the time within a 24-hour period; and 5 NTU as an instantaneous maximum, to be met prior to disinfection of effluent from the tertiary filters.

17. Attachment F – Fact Sheet, Section IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS. Insert Sections IV.G.1 and IV.G.2 as shown below:

G. Recycling Specifications

1. **In-Plant Recycled Water Use and Sewer Line Flushing.** Disinfected secondary effluent and tertiary effluent may be reclaimed for dust control and compaction on construction projects, landscape irrigation, wash down water, vehicle washing and grounds maintenance within the Facility boundaries, and for flushing of pipelines within the sewer collection system. It may also be used for in-plant process water and fire protection.
2. **Production of Disinfected Tertiary Recycled Water for Distribution.** The Discharger currently provides up to 5.0 MGD of secondary treated wastewater to the Water Reclamation Facility for additional treatment to Title 22 tertiary recycled water for unrestricted reuse. The production, distribution, and use of tertiary recycled water from the Water Reclamation Facility is regulated under Master Reclamation Permit No. 97-146. Once the EchoWater Project's Tertiary Treatment Facilities are fully operational, the Main Facility will replace the existing Water Reclamation Facility for producing filtered and disinfected recycled water, and supply Title 22 tertiary recycled water to the existing recycled water users and future users. In addition, regulation of the recycled

water will change, with the production of recycled water regulated by this Order per the Recycling Specifications in Section IV.C of this Order and the distribution and use of recycled water regulated under the State Water Board Statewide Recycled Water General Order, Water Quality Order WQ 2016-0068-DDW.

The Discharger conducted a program to select tertiary treatment technologies to comply with Title 22 requirements. The objectives were to demonstrate equivalence of effluent filtration at filtration rates of 7.5 gallons per minute per square foot (gpm/sf) and equivalence of disinfection for free residual chlorine (FRC), in accordance with Title 22 Sections 60301.320 and 60301.230, respectively. The findings of the program were submitted to DDW in an Engineering Report dated June 2015.

The Discharger's Title 22 Engineering Report was conditionally accepted by DDW per the conditional acceptance letter dated 12 October 2015, which included operational specifications to ensure treatment equivalent to Title 22 tertiary recycled water. The Discharger submitted a revised Title 22 Engineering Report in July 2018, incorporating the operational specifications set forth in the DDW conditional acceptance letter. DDW subsequently conditionally accepted the July 2018 Revised Title 22 Engineering Report by letter dated 5 October 2018. When complete, the EchoWater Project's Tertiary Treatment Facilities will undergo a testing and optimization processes that could result in changes to the Title 22 Engineering Report.

The Recycling Specifications require any revisions to the Title 22 Engineering Report receives DDW conditional acceptance prior to implementation. Due to possible changes to the Title 22 Engineering Report, the Recycling Specifications require operation per the 2018 conditionally accepted Title 22 Engineering Report or any subsequently revised Title 22 Engineering Report that has been conditionally accepted by DDW.

Furthermore, the Discharger is developing Standard Operating Procedures (SOP) for review/approval by DDW staff that specify the operational limits, critical alarms, and responses to alarms for the high loading rate filtration and free chlorine treatment process. The Recycling Specifications require the Discharger to operate the Facility in accordance with DDW-approved SOPs and the Monitoring and Reporting Program requires monthly Title 22 Recycled Water Compliance Reports to be submitted with the monthly Self-Monitoring Report regarding the Facility's compliance with the Recycling Specifications.

18. Attachment F – Fact Sheet, Section VI. RATIONALE FOR PROVISIONS. Modify Section VI.B.4 as shown below:

4. Construction, Operation, and Maintenance Specifications

- a. **Filtration System Operating Specifications.** Turbidity is included as an operational specification as an indicator of the effectiveness of the

filtration system for providing adequate disinfection. Section VI.C.6.a requires the wastewater is oxidized, filtered, and adequately disinfected pursuant to Title 22, or equivalent, seasonally from 1 May through 31 October. The Discharger submitted an Engineering Report dated July 2018 prepared pursuant to California Code of Regulations Title 22, section 60323, which was conditionally accepted by the State Water Board Division of Drinking Water (DDW) per the conditional acceptance letter dated 5 October 2018. The conditionally accepted Title 22 Engineering Report allows use of free chlorine disinfection and high filter loading rates that are not consistent with Title 22. **Effective 9 May 2023**, to ensure the filtration system is operating properly to provide adequate disinfection of the wastewater, the turbidity of the filter effluent measured at Monitoring Location FIL-001 shall not exceed the following:

- i. 1.5 NTU as 24-hour average;
- ii. 2.5 NTU more than 5 percent of the time within a 24-hour period; and
- iii. 5 NTU, at any time.

19. Attachment F – Fact Sheet, Section VI. RATIONALE FOR PROVISIONS. Modify Section VI.B.6 as shown below:

6. Other Special Provisions

- a. Seasonal Title 22, or Equivalent, Disinfection Requirements. Effective 9 May 2023, from 1 May to 31 October, when discharging to surface water, wastewater shall be oxidized, filtered, and adequately disinfected pursuant to Title 22, or equivalent, requirements consistent with the conditionally accepted Title 22 Engineering Report, in accordance with the compliance schedule in section VI.C.7.a.

20. Attachment F – Fact Sheet, Section VII. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS. Insert Section VII.E.4 as shown below:

4. Title 22 Recycled Water Monitoring.

Title 22 disinfected tertiary recycled water production monitoring and reporting are required to ensure compliance with the Recycling Specifications in Section IV.C of this Order and the conditionally accepted Title 22 Engineering report. The Discharger is required to submit monthly certified reports demonstrating compliance.

21. Attachment F – Fact Sheet, Section VIII. PUBLIC PARTICIPATION. Modify Section VIII.G as shown below:

G. Additional Information

Requests for additional information or questions regarding this order should be directed to Victor Lopez at (916) 464-4855 or Victor.Lopez@waterboards.ca.gov .

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board to review the action in accordance with CWC section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date that this Order becomes final, except that if the thirtieth day following the date that this Order becomes final falls on a Saturday, Sunday, or state holiday (including mandatory furlough days), the petition must be received by the State Water Board by 5:00 p.m. on the next business day.

[Links to the laws and regulations applicable to filing petitions](#)

(http://www.waterboards.ca.gov/public_notices/petitions/water_quality) may be found on the Internet or will be provided upon request.

I, PATRICK PULUPA, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on 14 October 2022.

PATRICK PULUPA, Executive Officer