Salton Community Services District
Study Session Agenda
November 6, 2024
Open Session 2:00 p.m.
1209 Van Buren Ave,
Salton City, CA 92275
www.saltoncsd.ca.gov

BOARD OF DIRECTORS:
Michelle Gilmore, President
Michael Friese, Vice President
Manuel Ramos, Director
Dale Johnson, Director
Lidia A. Sierra, Director

STAFF:
Emmanuel Ramos, General Manager
Sonia Thania Garcia, Board Secretary
Christina Sutton, Finance Officer

1. CALL TO ORDER: 1:00 p.m.

2. PLEDGE OF ALLEGIANCE: Michelle Gilmore, President

3. ROLL CALL:

4. PUBLIC COMMENTS:

Pursuander California Government Code Section 54954.3 members of the public may address the Board at this time on any items of public interest that are within the Board's subject matter jurisdiction. The Ralph M. Brown Act, however, prohibits the Board from taking action on any matter not appearing on the agenda. Personal attacks on individuals, slanderous comments or comments, which may invade an individual's personal privacy, are prohibited. Those who wish to address the Board should come to the microphone. Members of the public will be given three (3) minutes to address the board on any items of public interest. Public comments will be limited to a maximum of (30) thirty minutes per meeting. Comments are not to be directed towards an individual or individuals but to the Board on a specific issue.

5. STUDY SESSION FOR DISCUSSION ONLY. NO ACTION WILL BE TAKEN:

A. Stave Ledbetter Proposal to Provide Regulatory Support Services to Prepare a Groundwater Monitoring Network Workplans for the Salton City Lansing Avenue and the Thomas R. Cannell Wastewater Treatment Facilities

6. ADJOURNMENT:

_____

Sonia Thania Garcia, Board Secretary

Upon written request, this agenda will be made in appropriate alternative format to persons with disabilities as required by Section 202 of the American with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to the Secretary of the Board at least 72 hours before the meeting. Any public record, relating to an open session agenda item, that is distributed within 72 hours prior to the meeting is available for public inspection at 1209 Van Buren St, Suite 1, Salton City, California 92275.

October 29, 2024

Mr. Emmanuel Ramos
Interim General Manager
Salton Community Services District
1209 Van Buren Street
Thermal, CA 92274

Subject: Proposal to Provide Regulatory Support Services to Prepare a Groundwater Monitoring Network Workplans for the Salton City Lansing Avenue and the Thomas R. Cannell Wastewater Treatment Facilities

Dear Mr. Ramos:

Thank you for the opportunity to submit a proposal to provide regulatory support services for the subject project. The Salton Community Services District (District) desires to retain a consultant to support addressing the Waste Discharge Requirements (WDR) permits for the Lansing Avenue Wastewater Treatment Facility (Lansing WWTF) and the Thomas R. Cannell Wastewater Treatment Facility (Cannell WWTF), Orders R7-2024-0015 and R7-2024-0020. More specifically, preparing workplans to address the following special provisions:

- Lansing WWTF
  - Special Provision G.1. – Prepare Groundwater Depth and Quality Monitoring Workplan
- TRC WWTF
  - Special Provision G.1.a. – Prepare Groundwater Monitoring Network Study
  - Special Provision G.1.b. – Prepare Groundwater Quality Monitoring Network Workplan

It is our understanding that the construction of additional monitoring wells will be completed as part of a subsequent phase of work (i.e., Lansing WWTF Special Provision G.1. – Construct Groundwater Monitoring Wells and TRC WWTF Special Provision G.1.b. – Construct Groundwater Quality Monitoring Wells) and are not included in this proposal.

SCOPE OF SERVICES

This letter proposal describes a scope of services, budget, and schedule to prepare the Groundwater Monitoring Network Study and Work Plans (Items G.1. for both

Permits). The scope of work also includes the design of any new monitoring wells recommended as part of the work plans. The following is a list of the key tasks necessary to perform the proposed scope of services, each further described below:

- Task 1. Project Kickoff/Collect Data and Reports
- Task 2. Prepare a Monitoring Network Study
- Task 3. Develop Proposed Monitoring Network
- Task 4. Prepare Monitoring Network Work Plans
- Task 5. Meetings and Project Administration

Proposed Schedule Change

The scope assumes that the work for each facility is done separately to accommodate the schedule set forth in the Permits as follows:

- Lansing WWTF Monitoring Network Work Plan is due in May 2025
- TRC WWTF Monitoring Network Study is due in June 2025
- TRC WWTF Monitoring Network Work Plan is due 12 months after the TRC WWTF Monitoring Network Study is approved by the Colorado Water Board.

Given the proximity of the two facilities, there is an opportunity to share monitoring resources and perform the work more efficiently. This can be achieved by adjusting the schedule so that the deliverables for both facilities are due at the same time. Therefore, we recommend that the District request the following schedule changes from the Colorado Water Board:

- TRC WWTF Monitoring Network Study due in May 2025. This Study will consider the Lasing WWTF in its development and recommendations.
- Lasing WWTF and TRC WWTF Monitoring Network Work Plans due 12 months after the TRC WWTF Monitoring Network Study is approved by the Colorado Water Board or June 2026 at the latest.

Task 1. Project Kickoff/Collect Data and Reports

The objectives of this task are to:

1. Achieve consensus on the objectives and outline of the Study and Work Plan.
2. Compile and review readily available reports, data, and information necessary to complete the Work Plan.

The main activities of this task include:

- Preparing a draft outline of the Study and Work Plan and submit the outline to the District for review and comment.
- Preparing for and lead a project kickoff meeting. The agenda for the kickoff meeting will include the objectives and outline of the final Study and Work

Plans, the schedule to complete the Study and Work Plans; and the reports, data, and information necessary to complete the Study and Work Plans.
- Collecting, reviewing, and compiling reports, data, and information necessary to complete the Study and Work Plans.
- Finalizing the outline of the Study and Work Plans and submit the outline to the District.

Task 1 Deliverables: Draft and Final Outline of the Study and Work Plans

Task 2. Prepare a Monitoring Network Study

The goal of this task is to develop the Monitoring Network Study in compliance with Section G.1. of the TRC WWTF Permit, ensuring it meets the approval of the Executive Officer of the Colorado Water Board. The primary activities involved in this task include:

- Characterize the physical setting of the groundwater basin in the vicinity of the Facilities; specifically, those factors that influence mounding such as the structure and composition of the aquifer system and the occurrence and movement of groundwater. We will prepare text and data graphics to describe the physical setting in the vicinity of the Facilities, including:
    - A map of surface geology, groundwater basin and subbasin boundaries, the location of the Facilities, the locations of production and monitoring wells, and groundwater elevations and flow directions.
    - Two hydrogeologic cross sections that display the subsurface structure and composition of the aquifer system, and groundwater levels and flow directions.
    - Time-series charts of groundwater elevations at wells.
- We will describe the existing monitoring network at and surrounding the Facilities including:
    - Preparing a map of the existing monitoring well locations and other known well locations.
    - Preparing draft text and tables to describe the monitoring locations, and well details, including well depth, screen interval, and available groundwater quality and elevation data.
    - Preparing draft text to describe the existing monitoring network, as well as other wells located in the vicinity of the Facilities that can be leveraged for future monitoring.
- We will identify data gaps in the existing well network and will use these data gaps to identify locations for any new proposed monitoring wells.
- We will prepare an administrative draft Study, and submit it to the District for review and comment. We will lead a conference call with District staff to discuss the administrative draft Study and receive verbal feedback.

- We will then prepare a draft Study based on the comments and suggested revisions received from the District. The District will submit the draft Study to the Colorado Water Board for review and comment. Colorado Water Board staff will provide District with written comments and suggested revisions.
- We will prepare a final Study based on the comments and suggested revisions received from Colorado Water Board staff. The District will submit the final Study to the Colorado Water Board.

Task 2 Deliverables: Electronic Copies of the Administrative Draft, Draft, and Final Study; GIS Layers Prepared for the Study

Task 3. Develop Proposed Monitoring Network

The objective of this task is to develop a monitoring network work plan that will satisfy the requirements of Section G of the Permits (Special Provisions). Specifically, these requirements include:

- Monitor groundwater levels around the ponds
- Determine the direction of groundwater flow
- Monitor upgradient and downgradient water quality conditions

The main activities of this task include:

- We will prepare a map of the proposed monitoring locations. The map will be based on the map of the physical setting prepared in Task 2.
- We will prepare draft text and tables to describe the monitoring locations, chemical analytes, frequency of sampling, and protocols for laboratory analyses and data reporting.
- We will locate and design up to eight new monitoring wells (up to four per Facility) to fill data gaps identified in Task 2 above.

The information developed in Task 3 will be documented in the Task 4 deliverable.

Task 3 Deliverables: Maps and Tables with the Information Summarized Herein

Task 4. Prepare Monitoring Network Work Plans

The goal of this task is to develop the Monitoring Network Work Plans that meet the requirements outlined in Section G.1. of the Permits and receive approval from the Executive Officer of the Colorado Water Board. The primary activities involved in this task include:

- We will compile the text, tables, and figures prepared in Tasks 2 and 3 prepare an administrative draft Work Plans (one for each Facility), and submit it to the District for review and comment. We will host a conference call with District staff to discuss the administrative draft Work Plan and receive verbal feedback.

- We will prepare a draft Work Plans based on the comments and suggested revisions received from the District. The District will submit the draft Work Plan to the Colorado Water Board for review and comment. We will lead a conference call with Colorado Water Board and District staff to discuss the draft Work Plan and receive verbal feedback. Colorado Water Board staff will provide the District with written comments and suggested revisions.
- We will prepare a final Work Plans based on the comments and suggested revisions received from Colorado Water Board staff. The District will submit the final Work Plan to the Colorado Water Board.

Task 4 Deliverables: Electronic Copies of the Administrative Draft, Draft, and Final Work Plans (one for each Facility); GIS Layers Prepared for the Work Plans

Task 5. Meetings and Project Administration

In this task, we will prepare for and conduct up to two virtual coordination meetings with the District; coordinate staffing over the duration of the project; and provide monthly invoices and progress reports to District staff of project progress, schedule, and budget status. We have budgeted for up to six (6) virtual meetings total with the District and/or the Colorado Water Board. These meetings are in addition to the virtual meetings described in the individual tasks.

Task 5 Deliverables: Agenda, Minutes, Monthly Invoicing

PROJECT BUDGET

As shown on the attached fee table, our proposed project fee of $144,400 for the above scope, which includes approximately 566 man-hours. We will invoice the District monthly on a time and materials basis in accordance with our attached rate schedule. Our invoice will not exceed the amount presented above without prior approval.

PROJECT SCHEDULE

Our proposed project schedule is shown below:

Task	2024	2025				2026	
	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Task 1. Project Kickoff/ Collect Data and Reports							
Task 2. Prepare a Monitoring Network Study			TRC Study				
Task 3. Develop Proposed Monitoring Network							
Task 4. Prepare Monitoring Network Work Plans			Lansing Workplan				TRC Workplan
Task 5. Meetings and Project Administration							

Again, thank you for the opportunity to submit our proposal to provide regulatory support services for the District. If you have any questions, please contact me at (951) 680-0440.

Sincerely,

Steven W. Ledbetter, P.E., Q.S.D.
Vice President
TKE Engineering, Inc.

Attachments: Fee Table
Rate Schedule

Salton Community Services District
WDR Regulatory Support

Fee Estimate

	Task	Principal In Charge		Project Manager		Associate Engineer		Assistant Engineer		Clerical		Subconsultants[1.)]		Total
		Hours	$	Hours	$	Hours	$	Hours	$	Hours	$	Hours	$	$
1	Project Kickoff/Collect Data and Reports	1	$ 185	2	$ 350	4	$ 620	4	$ 580	2	$ 180	25	$ 7,403	**$ 9,318**
2	Prepare a Monitoring Network Study	2	$ 370	8	$ 1,400	12	$ 1,860	4	$ 580	2	$ 180	180	$ 50,127	**$ 54,517**
3	Develop Proposed Monitoring Network	2	$ 370	4	$ 700	4	$ 620	2	$ 290	2	$ 180	70	$ 19,492	**$ 21,652**
4	Prepare Monitoring Network Work Plans	2	$ 370	12	$ 2,100	16	$ 2,480	16	$ 2,320	4	$ 360	80	$ 23,353	**$ 30,983**
5	Meetings and Project Administration	2	$ 370	8	$ 1,400	12	$ 1,860	8	$ 1,160	8	$ 720	68	$ 22,378	**$ 27,888**
	Totals:	9	$ 1,665	34	$ 5,950	48	$ 7,440	34	$ 4,930	18	$ 1,620	423	$122,753	**$ 144,358**

Rates:

Principal In Charge	$185 /HR
Project Manager	$175 /HR
Senior Engineer	$165 /HR
Associate Engineer	$155 /HR
Assistant Engineer	$145 /HR
AutoCAD Technician	$135 /HR
Engineering Technician	$105 /HR
Clerical	$ 90 /HR

Notes:
1.) Subconsultant includes West Yost

Rounded Total: $ 144,400

TKE Engineering, Inc.

TKE ENGINEERING, INC.

RATE SCHEDULE
2024–2025

	HOURLY RATE
Principal in Charge	$185.00
Project Manager/Construction Manager/Licensed Surveyor	$175.00
Traffic Engineer (TE)	$165.00
Senior Engineer/Project Engineer (PE)/Senior Plan Checker	$165.00
Assistant Project Manager/Associate Engineer	$155.00
Assistant Engineer/Plan Checker/Designer	$145.00
AutoCAD Technician	$135.00
Engineering Technician	$105.00
Clerical	$ 90.00
Forensic Engineering	$300.00
Expert Witness Testimony	$400.00

SURVEYING SERVICES

2-Man Survey Crew (Prevailing Wage)	$260.00

DEVELOPMENT SERVICES

Managing Director	$185.00
Senior Project Manager	$135.00
Project Manager	$105.00

CONSTRUCTION SERVICES

Senior Construction Inspector (Prevailing Wage)	$135.00
Construction Inspector (Prevailing Wage)	$125.00

REIMBURSABLE COSTS

In-house Reproduction	Cost
Printing and Materials	Cost + 10%
Express Mail/Courier/Next Day Service	Cost + 10%
Special Subconsultant Services	Cost + 10%

73-720 Fred Waring Dr. #100
Palm Desert, CA 92260
(760) 346-7491
Regional Board Website (https://www.waterboards.ca.gov/coloradoriver)

WASTE DISCHARGE REQUIREMENTS ORDER R7-2024-0015

ORDER INFORMATION

Order Type(s):	Waste Discharge Requirements (WDRs)
Status:	ADOPTED
Program:	Non-15 Discharges to Land
Discharger(s):	Salton Community Services District
Facility:	Salton City Lansing Avenue Wastewater Treatment Facility
Address:	2170 Lansing Avenue, Salton City, California 92274
County:	Imperial County
APN(s):	017-140-014
GeoTracker ID:	WDR100035566
WDID:	7A130110011
Prior Order(s):	WDRs Order R7-2012-0035 WDRs Order 00-094 WDRs Order 98-018

CERTIFICATION

I, Paula Rasmussen, Executive Officer, hereby certify that the following is a full, true, and correct copy of the order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on May 14, 2024.

Original signed by
PAULA RASMUSSEN
Executive Officer

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GLOSSARY

Antidegradation Policy .....Statement of Policy with Respect to Maintaining High Quality Waters in California, State Water Resources Control Board Resolution 68-16

Basin Plan.....Water Quality Control Plan for Colorado River Basin Region (inclusive of all amendments)

bgs.....Below Ground Surface

BOD5 .....Five-Day Biochemical Oxygen Demand at 20°C

BPTC .....Best Practicable Treatment and Control

CEQA.....California Environmental Quality Act (Pub. Resources Code, § 21000 et seq.)

CEQA Guidelines.....Regulations for Implementation of CEQA (Cal. Code Regs., tit. 14, § 15000 et seq.)

DTSC .....California Department of Toxic Substances Control

DWR.....California Department of Water Resources

GPD .....Gallons per Day

MCL[s] .....Maximum Contaminant Level[s] for Drinking Water under Title 22

mg/L.....Milligrams per Liter

MGD.....Millions of Gallons per Day

MRP .....Monitoring and Reporting Program

NPDES.....National Pollutant Discharge Elimination System

ROWD.....Report of Waste Discharge

Title 22.....California Code of Regulations, Title 22

Title 23.....California Code of Regulations, Title 23

Title 27.....California Code of Regulations, Title 27

USEPA.....United States Environmental Protection Agency

WDRs.....Waste Discharge Requirements

WQO[s].....Water Quality Objective[s]

(findings begin on next page)

FINDINGS

The Colorado River Basin Regional Water Quality Control Board (Colorado River Basin Water Board) hereby finds as follows:

Introduction

1. This Order prescribes waste discharge requirements (WDRs) for the Salton Community Services District (Discharger), which owns and operates the Salton City Lansing Avenue Wastewater Treatment Facility (Facility) in Imperial County.

2. On January 27, 2023, the Discharger submitted a Report of Waste Discharge (ROWD) for updated WDRs for the Facility. A revised ROWD was subsequently submitted with supplemental information on December 18, 2023.[1]

3. The Facility is located in Salton City, near the intersection of Salton Drive and Lansing Avenue, in Imperial County, Section 21, Township 10 South, Range 10 East, Mount San Bernardino Base and Meridian. The Assessor's Parcel Number (APN) is 017-140-014. The Facility's location is also depicted on the maps in **Attachment B**.

4. Regulatory coverage under this Order is strictly limited in scope to those waste discharges, activities and processes described and expressly authorized herein.

5. The Discharger is prohibited from initiating discharge of new wastes (i.e., other than those described herein), or making material changes to the character, volume and timing of discharges authorized herein, without filing a new ROWD per Water Code section 13260. (Wat. Code, § 13264, subd. (a).), Failure to file a new ROWD before initiating such material changes shall constitute an independent violation of this Order.

6. This Order is also strictly limited in applicability to those individuals and/or entities specifically designated above as "Discharger," subject only to the discretion to designate or substitute new parties in accordance with this Order.

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[1] The revised ROWD proposes an increased disposal capacity from 0.12 million gallons per day (MGD) to 0.160 MGD, as well as a proposal to install a groundwater monitoring network.

Facility

7. The Facility is a wastewater treatment and disposal facility that provides sewerage service to the residents and businesses of Salton City, an unincorporated community in Imperial County.

8. The Discharger also owns and operates the Thomas R. Cannell Wastewater Treatment Facility (Cannell WWTF) regulated under WDRs Order R7-2018-0013, and a wastewater collection system regulated under State Water Resources Control Board (State Water Board) Order No. 2022-0103-DWQ (Statewide General Waste Discharge Requirements for Sanitary Sewer Systems). The Discharger conveys excess wastewater approximately 9,000 feet from the Lansing Avenue Facility to the Cannell WWTF through a 12-inch force main.

9. The Facility consists of five unlined evaporation/percolation ponds and one unused pond (Pond 5),[2] each of which are equipped with four to six aerators. The location of these five ponds, which total approximately 12.2 acres, is shown in Figure 2 of **Attachment B**. Typically, only two ponds are in operation at any given time. For purposes of this Order, these five onsite ponds are collectively referred to as the "**Designated Disposal Area**." The Facility is equipped with a backup generator in the event of a power outage.

10. Although the Facility was initially designed for disposal capacity of 0.12 million gallons per day (MGD), on May 15, 2000, the Discharger submitted a report concluding that the Facility's capacity was actually 0.20 MGD. The Facility's WDRs were subsequently revised accordingly to authorize the additional volume. However, the Facility thereafter began experiencing surfacing of wastewater around the perimeter of the evaporation/percolation ponds—indicating the revised treatment capacity had been overestimated.

11. In 2008, the subject Facility was taken offline due to the commissioning of the Cannell WWTF, which opened with a disposal capacity of 0.185 MGD. In 2012, the Cannell WWTF was operating near its permitted treatment capacity and the subject Facility was brought back online to allow for additional disposal capacity. Consequently, the Facility was re-permitted under Order R7-2012-0035—this time, at the original treatment capacity of 0.12 MGD.

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[2] Pond 5 has not been used for evaporation/percolation since the Cannell WWTF opened; it is instead used for sludge storage.

12. The Discharger now proposes to again increase the Facility's disposal capacity from 0.12 MGD to 0.16 MGD. The proposed increase is based on changing hydrogeological conditions. Specifically, the Salton Sea's water level has dropped approximately 11 feet over the last 20 years, thereby allowing for more subsurface disposal capacity without saturation.[3]

13. The percolation ponds are monitored for dissolved oxygen and pH when the pond level is one foot deep or higher.

14. Table 1 below summarizes the characterization of Facility influent, as reported in the Discharger's Self-Monitoring Reports (SMRs) for December 2018 through November 2023.

Table 1. Influent Characterization.

Constituent	Units	Average	Maximum	Minimum
Flow	MGD	0.100	0.177	0.052
BOD5	mg/L	75.9	330	15
Total Suspended Solids (TSS)	mg/L	107.9	720	12

Proposed Changes at Facility

15. Since 2019, the Facility has implemented operational measures including increased aeration time to reduce effluent BOD. Only two of the percolation ponds at the Facility are used due to increased percolation rates. In the mid-2000's, the Facility used all five evaporation/percolation ponds to dispose of the same quantity of wastewater as is deposed of now with only two evaporation/percolation ponds.

[3] In the mid-2000's, the Salton Sea was at 229 feet below sea level, whereas it is now 240 feet below sea level.

16. A groundwater monitoring well network is necessary to monitor local hydrologic conditions (e.g., groundwater elevation) and impacts from Facility discharges. The Discharger proposes to use a phased approach for groundwater monitoring at the Facility. Should surfacing of wastewater occur around the perimeter of the five onsite percolation/evaporation ponds (i.e., Designated Disposal Area), the Discharger will transfer wastewater flows to the Cannell WWTF.

17. No changes in the character of influent are anticipated. The ROWD does not identify discharges from industrial users subject to federal categorical Pretreatment Standards into its collection system. The Discharger will be required to provide an annual routine assessment of its industrial dischargers in order to determine whether a pretreatment program will be necessary.

18. Table 2 summarizes the Facility's effluent, as reported in the Discharger's SMRs from December 2018 through November 2023.

Table 2. Effluent Characterization.

Constituent	Units	Average	Maximum	Minimum
pH	Std. Units	8.1	9.3	5.58
BOD5	mg/L	66	304.2	9.8
TSS	mg/L	135.4	464	25
Total Dissolved Solids (TDS)	mg/L	1334.4	2542	340
Dissolved Oxygen	mg/L	4.1	32.9	0.4
Nitrate as N	mg/L	1.01	2.2	ND
Nitrite as N	mg/L	0.23	1.1	ND
Total Nitrogen	mg/L	18	25	11
Ammonia as N	mg/L	7.2	9.7	1.2
Total Phosphorus	mg/L	3.9	5.2	2.2

General Site Conditions

19. The site elevation is approximately 200 feet below sea level. The site slopes are relatively flat and are generally sloped to the northeast with an average slope of approximately 2.4 percent.

20. Arroyo Salado, a drainage course is located adjacent to the Facility. The Salton Sea is located approximately 1.3 miles to the northeast. Over the last 20 years, the water level in the Salton Sea has decreased approximately 11 feet. The Salton Sea shoreline nearest to the plant has receded as much as 3,800 linear feet over the same period.

21. Soil borings indicate that area soils are predominately comprised of clay with interbedded sand.

22. The site is located in a seismically active desert region.

23. Based on data from the nearest weather station (KCATHERM30), the Facility has an annual average precipitation of about 3 inches and a mean pan evaporation of 72 inches per year.

24. According to National Oceanic and Atmospheric Administration (NOAA) Precipitation Frequency Atlas 14, Vol. 6 (rev. 2014), 100-year and 1,000-year, 24-hour rainfall events are estimated to result in 4.51 and 7.74 inches of precipitation, respectively.[4]

25. According to the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (https://msc.fema.gov/portal), the Facility is not located within a 100-year floodplain.

26. Land uses in the vicinity include residential, industrial, and recreational uses.

27. Domestic water is supplied by the Coachella Valley Water District (CVWD). From December 2018 to November 2023, TDS concentrations averaged approximately 619.5 mg/L. Between 2022 to 2023, average concentrations decreased to 169 mg/L. This dramatic decrease is attributed a change in the source water of CVWD. CVWD is using groundwater from wells outside of the local area. There

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[4] Source: NOAA Precipitation Frequency Data Server (https://hdsc.nws.noaa.gov/hdsc/pfds)

are no domestic wells within 500 feet of the on-site infiltration ponds, and local groundwater does not appear to be usable for domestic purposes.

Groundwater and Subsurface Conditions

28. Soil borings indicate that subsurface conditions are predominately comprised of clay with interbedded silty sand from half a foot to five feet below ground surface (bgs).

29. Although the depth to groundwater at the Facility has historically been approximately five feet bgs, the depth must be reevaluated in light of the changing hydrologic conditions described in Finding 12.

30. According to the Discharger, local groundwater has historically had a TDS concentration of approximately 7,000 mg/L. However, there is limited and outdated groundwater monitoring data for the Facility's immediate vicinity. As a result, the current depth to groundwater, groundwater flow rate and gradient direction are unknown and must be evaluated. The Discharger proposes to install a monitoring network surrounding the Facility to determine subsurface conditions.

Regulatory Considerations

Waste Discharge Permitting Authority

31. This Order is issued pursuant to Water Code section 13263, subdivision (a), which provides that "[t]he regional board, after any necessary hearing, shall prescribe requirements as to the nature of any proposed discharge, existing discharge, or material change in an existing discharge…, with relation to the conditions existing in the disposal area or receiving waters upon, or into which, the discharge is made or proposed."

32. The statute further provides that WDRs "shall implement … water quality control plans, and shall take into consideration the beneficial uses to be protected, the water quality objectives reasonably required for that purpose, other waste

discharges, the need to prevent nuisance,[5] and the provisions of Section 13241." (Wat. Code, § 13263, subd. (a).)

33. The ability to discharge wastewater is a privilege, not a right. The adoption of this Order shall not be construed as establishing a vested right in the continuance of discharge activities. (Wat. Code, § 13263, subd. (g).)

34. For the purposes of determining waste discharge fees under California Code of Regulations, title 23 (Title 23), section 2200, the Facility has a threat-complexity rating of **3**-**B**.

    a. Threat Category "3" reflects waste discharges that could either degrade water quality without violating water quality objectives, or cause beneficial use impairments that are minor relative to Categories 1 and 2.

    b. Complexity Category "B" reflects any discharger not included in Category A, with either (1) physical, chemical or biological treatment systems (except for septic systems with subsurface disposal), or (2) any Class II or Class III WMUs.

Basin Plan Implementation

35. The Water Quality Control Plan for the Colorado River Basin Region (Basin Plan) designates beneficial uses of groundwater and surface water within the region, establishes numeric and narrative water quality objectives (WQOs) protective of such uses, and incorporates applicable State Water Resources Control Board (State Water Board) plans and policies.

36. This Order prescribes WDRs for discharges to groundwater within the Anza-Borrego Planning Area, West Salton Sea Hydrologic Unit (721.00), for which the designated beneficial uses of groundwater are as follows:

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[5] "Nuisance" is defined by statute as a condition that: "(1) Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property[;] [¶] (2) Affects at the same time an entire community or neighborhood, or any considerable number of persons…[;] [and] [¶] (3) Occurs during, or as a result of, the treatment or disposal of wastes." (Wat. Code, § 13050, subd. (m).)

a. Municipal and Domestic Supply (MUN); and

b. Agricultural Supply (AGR).

37. The Basin Plan establishes the following WQOs for MUN-designated groundwater:

a. Tastes and Odors (Narrative): Groundwater shall not contain taste or odor-producing substances that adversely affect beneficial uses as a result of human activity (Ch. 3, § IV.A);

b. Coliform Bacteria (Numeric): Groundwater shall not contain coliform organisms in exceedance of the limits specified in California Code of Regulations, title 22 (Title 22), section 64426.1 (Ch. 3, § IV.B); and

c. Chemical Constituents (Numeric): Groundwater shall not contain organic and inorganic chemical constituents in concentrations exceeding the Maximum Contaminant Levels (MCLs) established for drinking water per Title 22, sections 64431, 64444 and 64678 (Ch. 3, § IV.C).

38. With respect to the narrative WQO for chemical constituents, specifically the objective for Total Dissolved Solids (TDS), the Title 22 Secondary MCL specifies a recommended limit of 500 mg/L, and an upper limit of 1,000 mg/L.[6]

39. The Basin Plan incorporates State Water Board Resolution 88-63 (*Sources of Drinking Water Policy*), which provides that groundwater with TDS in excess of 3,000 mg/L cannot reasonably be expected to supply a public water system. However, the *Sources of Drinking Water Policy* also provides that all groundwaters shall be designated for MUN beneficial uses until affirmatively de-designated by a Basin Plan Amendment, even if the specified TDS threshold is exceeded. The *Sources of Drinking Water Policy* nevertheless provides a firm outer limit of 3,000 mg/L for use in determining whether local groundwater is usable for MUN beneficial uses, notwithstanding its current designation under the Basin Plan, and irrespective of the groundwater's consistency with the narrative WQO for tastes and odors.

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[6] Salinity may alternatively be expressed in terms of microsiemens per centimeter (µS/cm) of Electrical Conductivity (EC). As a Secondary MCL, Title 22 specifies a recommended limit of 900 µS/cm, and an upper limit of 1,600 µS/cm.

40. In this case, local groundwater has been historically estimated to have a TDS concentration of approximately 7,000 mg/L. Such salinity is well beyond the *Sources of Drinking Water Policy* threshold for MUN applications (3,000 mg/L), as well as any foreseeable agricultural applications.

Antidegradation Policy

41. The Basin Plan incorporates the State Water Board's *Statement of Policy with Respect to Maintaining High Quality Waters in California*, Resolution 68-16 (Antidegradation Policy), which prohibits the Colorado River Basin Water Board from authorizing discharges that will result in the degradation of "high quality waters," unless it is demonstrated that any such degradation in water quality:

    a. Will not unreasonably affect beneficial uses,[7] or otherwise result in water quality less than that prescribed in applicable plans and policies (e.g., violation of WQOs);

    b. Will be mitigated through best practicable treatment and control (BPTC);

    c. Is consistent with maximum benefit to the people of the state of California.

42. The baseline for determining whether waters are "high quality" under the Antidegradation Policy is the highest quality achieved since the policy was established in 1968. If the subject waters have not achieved the minimum quality necessary to meet WQOs since 1968, the waters are considered "poor quality," which means the Antidegradation Policy does not apply. This determination is made on a constituent-by-constituent basis, meaning that waters may be considered "high quality" with respect to some constituents but not others.

43. Based on experiences with similar facilities, Colorado River Basin Water Board staff have identified the following constituents with the potential to degrade groundwater in the Facility's effluent, each of which is discussed below:

    a. Total Nitrogen (Nitrate plus Nitrite),

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[7] The Water Code defines "Pollution" in relevant part as the "alteration of the quality of the waters of the state by waste to a degree which unreasonably affects … [¶] [t]he waters for beneficial uses." (Wat. Code, § 13050, subd. (l)(1)(A).)

b. TDS (Salinity), and

c. Coliform Organisms.

44. Nitrogen: The Primary Maximum Contaminant Level (MCL) (i.e., WQO) for nitrate plus nitrite as nitrogen is 10 mg/L. According to the Discharger's Annual SMRs for 2018 through 2022, the Facility's effluent has an average total nitrogen concentration ranging between 11 to 25 mg/L, with an average of 18 mg/L. However, the assimilative capacity in local groundwater for nitrogen is unclear. Nor is it known whether nitrogen in groundwater will convert to nitrate or nitrite. Without current groundwater quality information, it cannot be ascertained whether the Facility's discharge will result in groundwater not meeting WQOs. Accordingly, this Order requires the Discharger to implement groundwater monitoring for the Facility. The Discharger is also required to investigate the feasibility of nitrogen treatment to achieve an effluent limitation of 10 mg/L, which may be prescribed in the future (based in part on the results of groundwater monitoring).

45. TDS (Salinity): With respect to TDS, local groundwater has historically been estimated to have a concentration of approximately 7,000 mg/L, vastly exceeding the 3,000 mg/L outer threshold specified under the *Sources of Drinking Water Policy*. Such high salinity is attributable to natural hydrologic conditions. Non-anthropogenic conditions may be presumed to have remained relatively unchanged since 1968. Accordingly, it may be presumed that local groundwater has remained well above 3,000 mg/L at every point since 1968. Local groundwater is therefore presumed to be "poor quality" with respect to TDS in particular. The Antidegradation Policy is therefore inapplicable to TDS in local groundwater at the Facility.

46. Coliform Organisms: The most probable number (MPN) of coliform organisms in untreated domestic wastewater is typically 10^7 to 10^8 per 100 mL, and in secondary-treated wastewater, a MPN of 10^5 to 10^6 organisms per 100 mL (USEPA, Design Manual: Municipal Wastewater Disinfection, EPA/625/1-86/021, Oct. 1986.). Coliforms do not generally transport through soils any appreciable distance, but given the depth to groundwater at the disposal ponds, it is likely that pathogen-indicator bacteria will reach groundwater at densities exceeding those prescribed in Title 22, section 64426.1. However, there are no municipal groundwater wells within 500 feet of the Discharge Area and given the soil types, it is not likely that pathogen-indicator bacteria will transport any appreciable distance from the Designated Disposal Area and it is not expected that the

discharge will degrade any beneficial use of the groundwater in the vicinity of the Facility. Consequently, no groundwater degradation is anticipated.

47. Notwithstanding implementation of BPTC, a degree of groundwater quality degradation will occur as a result of the Facility's operation—specifically in terms of nitrate/nitrite and TDS (and possibly total coliform). However, such degradation nevertheless is consistent with the maximum benefit to the people of the state of California. The Discharger provides a valuable service to the community that is protective of human health and the environment and contributes to the economic development of the area. The economic prosperity of surrounding communities and associated industries is of maximum benefit to the people of the state and provides sufficient justification for allowing the limited groundwater degradation that may occur under this Order.

48. Based on the foregoing considerations, the wastewater discharges authorized under this Order are consistent with the Antidegradation Policy.

Stormwater

49. On July 1, 2015, the State Water Board adopted Water Quality Order 2014-0057-DWQ (National Pollutant Discharge Elimination System Permit No. CAS000001), *General Permit for Storm Water Discharges Associated with Industrial Activities* (Industrial General Permit). Facilities used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage with a design flow of one million gallons per day or more, or that are required to have an approved pretreatment program under 40 Code of Federal Regulations part 403, must enroll under the Industrial General Permit, unless there is no discharge of industrial stormwater to waters of the United States (WOTUS).[8] The Facility treats domestic sewage and sewage sludge, however, the design flow of the

[8] USEPA regulations for stormwater discharges were promulgated on November 16, 1990 (40 C.F.R. parts 122, 123, and 124) to implement the Clean Water Act's stormwater program set forth in Clean Water Act section 402(p) (33 U.S.C. §1342(p)). In relevant part, the regulations require specific categories of facilities that discharge stormwater associated with industrial activity to WOTUS to obtain National Pollutant Discharge Elimination System (NPDES) permits and to require control of such pollutant discharges using Best Available Technology Economically Achievable (BAT) and Best Conventional Pollutant Control Technology (BCT) to prevent and reduce pollutants and any more stringent controls necessary to meet water quality standards.

facility is less than one million gallons per day. Therefore, the discharge is not subject to the federal CWA's stormwater program requirements.

50. This Order does not authorize discharges of stormwater to the WOTUS.

Additional Water Quality Considerations

51. This Order, which prescribes WDRs in accordance with the Basin Plan, for wastewater that does not need to be managed as "hazardous waste," is exempt from the prescriptive requirements of California Code of Regulations, title 27 (Title 27), section 20005 et seq. (Cal. Code Regs., tit. 27, § 20090.)

52. Water Code section 106.3, subdivision (a) provides that it is "the established policy of the state that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes." Although subdivision (a) does not apply directly to the prescribing of WDRs (see Wat. Code, § 106.3, subd. (b)), this Order nevertheless furthers the stated policy by requiring that the receiving groundwater comply with WQOs protective of MUN beneficial uses.

53. Water Code section 13149.2, subdivision (d) requires that the Colorado River Basin Water Board, "[w]hen issuing … individual waste discharge requirements … that regulate activity or a facility that may impact a disadvantaged[9] or tribal community,[10] and that includes a time schedule in accordance with subdivision (c) of Section 13263 for achieving an applicable water quality objective, an alternative compliance path that allows time to come into compliance with water quality objectives, or a water quality variance…," must include finding(s) regarding "potential environmental justice,[11] tribal impact, and racial equity

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[9] For the purposes of this requirement, a "disadvantaged community" is defined as a "community in which the median household income is less than 80 percent of the statewide annual median household income level." (Wat. Code, § 13149.2, subd. (f)(1).)

[10] For the purposes of this requirement, a "tribal community" is defined as a "community within a federally recognized California Native American tribe or nonfederally recognized Native American tribe on the contact list maintained by the Native American Heritage Commission for the purposes of Chapter 905 of the Statutes of 2004." (Wat. Code, § 13149.2, subd. (f)(2).)

[11] Water Code section 13149.2 incorporates the general definition of "environmental justice" in Public Resources Code section 30107.3, subdivision (a): "the fair treatment

considerations" that are relevant to the permitting action. This Order does not incorporate a time schedule for compliance with applicable WQOs, or any of the other provisions described in Water Code section 13149.2, subdivision (d). Accordingly, no additional findings are necessary under section 13149.2.

California Environmental Quality Act

54. The adoption of this Order is categorically exempt from the procedural requirements of the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.), as the Facility is "an existing facility" with negligible or no expansions in use. (See Cal. Code Regs., tit. 14, 15301.)

Monitoring and Reporting Requirements

55. This Order is also issued pursuant to Water Code section 13267, subdivision (b)(1), which provides that the Colorado River Basin Water Board may require that persons discharging waste within the region "shall furnish, under penalty of perjury, technical or monitoring program reports…," provided that the discharger's burdens of compliance, including costs, is reasonable relative to the need for the submittals and the benefits to be obtained.

56. The various notifications, technical reports and monitoring program reports required under this Order, including those contained within the Monitoring and Reporting Program (MRP) in **Attachment A**, are necessary to ensure compliance with the WDRs.

57. In accordance with section 13267, the burdens of monitoring and reporting imposed on the Discharger under this Order and the separately adopted MRP, are reasonable relative to the need for compliance described above.

58. The Executive Officer may issue a Revised MRP as a standalone order, pursuant to his/her delegated authority under Water Code section 13223 and Colorado River Basin Water Board Resolution R7-2022-0036. Upon issuance, the Revised MRP shall supersede the provisions of **Attachment A**.

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and meaningful involvement of people of all races, cultures, incomes, and national origins, with respect to the development, adoption, implementation, and enforcement of environmental laws, regulations, and policies." (Wat. Code, § 13149.2, subd. (f).)

Scope of Order

59. This Order, which prescribes WDRs for the discharge of nonhazardous wastewater to land in accordance with the Basin Plan, is exempt from the prescriptive standards for solid waste disposal set forth in California Code of Regulations, title 27 (Title 27), section 20005 et seq. (Title 27, § 20090, subd. (b).)

60. Nothing in this Order shall be construed as preempting or superseding otherwise applicable regulatory requirements issued by local, state, or federal agencies.

Public Participation

61. In developing these WDRs, Colorado River Basin Water Board staff have complied with Water Code section 189.7, subdivision (a)(1), which requires "equitable, culturally relevant community outreach to promote meaningful civil engagement from potentially impacted communities of proposed discharges of waste that may have disproportionate impacts on water quality in disadvantaged communities or tribal communities…."

62. The Dischargers and other interested public agencies and persons were notified of the Board's intent to prescribe the WDRs in this Order, and provided an opportunity to submit their written views and recommendations at a public hearing. (Wat. Code, § 13167.5.)

63. The Colorado River Basin Water Board, in a public meeting, heard and considered all timely comments pertaining to this discharge.

REQUIREMENTS

IT IS HEREBY ORDERED, pursuant to Water Code sections 13263 and 13267, that Order R7-2012-0035 is rescinded (except for enforcement purposes), and that the Discharger shall comply with the following requirements.

A. Prohibitions

1. Waste classified as "hazardous," as defined in Title 27, section 20164, or constituting "designated waste," as defined in Water Code section 13173, shall not be discharged at the Facility.

2. The storage, treatment, or disposal of waste at the Facility shall not cause conditions constituting a “contamination,” “pollution,” or “nuisance,” as defined per subdivisions (k), (l), and (m) of Water Code section 13050.

3. Wastewater shall not be permitted to bypass the aeration/percolation ponds relied upon for compliance with this Order, or otherwise be permitted to overflow from its designated containment structures.

4. Waste shall not be discharged at a location other than the Designated Disposal Area specified in Finding 9, or in a manner other than as described in the findings generally.

5. Wastewater shall not be discharged from the Facility into surface waters or surface drainage courses.

6. The discharge of wastewater to land not controlled by the Discharger, or not authorized for such use, is prohibited.

7. Objectionable odors, originating from the Facility and associated with the generation, treatment, storage, or disposal of waste, shall not be perceivable beyond the boundaries of the Facility or areas not owned/controlled by the Discharger.

8. The Discharger shall not accept waste in excess of the treatment capacity of the disposal system.

9. Surfacing or ponding of wastewater outside of the designated disposal locations is prohibited.

B. Discharge Specifications

1. Wastewater shall be discharged to the Designated Disposal Area, as described in Finding 9.

2. All Facility systems and equipment shall be operated to optimize the quality of the effluent.

3. All conveyance, treatment, storage, and disposal systems shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods with a 100-year return frequency.

4. Public contact with wastewater at the Facility shall be prevented through such means as fences, signs, or acceptable alternatives.

5. The Discharger shall design, construct, operate, and maintain all Facility impoundments sufficiently to protect the integrity of containment dams and berms and prevent overtopping and/or structural failure. The operating freeboard in any impoundments shall never be less than two feet (measured vertically from the lowest possible point of overflow).

6. Wastewater treatment, storage, and disposal ponds or structures shall have sufficient capacity to accommodate allowable wastewater flow, design seasonal precipitation, and ancillary inflow and infiltration during the winter while ensuring compliance with all requirements of this Order. Design seasonal precipitation shall be based on total annual precipitation using a return period of 100 years, distributed monthly in accordance with historical rainfall patterns.

7. On or about 1 October of each year, available capacity shall at least equal the volume necessary to comply with Sections B.5 and B.6.

8. All ponds and open containment structures shall be managed to prevent breeding of mosquitoes. Specifically:

    a. An erosion control program shall be implemented to ensure that small coves and irregularities are not created around the perimeter of the water surface.

    b. Weeds shall be minimized through control of water depth, harvesting, or herbicides.

    c. Dead algae, vegetation, and debris shall not accumulate on the water surface.

    d. The Discharger shall consult and coordinate with the local Mosquito Abatement District to minimize the potential for mosquito breeding as needed to supplement the above measures.

9. Newly constructed or rehabilitated berms or levees (excluding internal berms that separate ponds or control the flow of water within a pond) shall be designed and constructed under the supervision of a California Registered Civil Engineer.

10. Wastewater within any unlined impoundment (including the Designated Disposal Area) shall not have a pH less than 6.0 or greater than 9.0.

11. Beginning in 2024, the Discharger shall monitor sludge accumulation in each Facility impoundment at least every five years, and periodically remove sludge as necessary to maintain adequate storage capacity. Specifically, if the estimated volume of sludge in the reservoir exceeds five percent of the permitted reservoir capacity, the Discharger shall complete sludge cleanout within 12 months after the date of the estimate.

12. The aeration/percolation ponds shall be maintained so that they continuously operate in aerobic conditions. The dissolved oxygen content in the upper zone (one foot) of the aeration/percolation ponds shall be equal to or greater than 1.0 mg/L. If there is little or no water in the ponds, the monitoring report shall state “No standing water in ponds and/or not sufficient water in the ponds to sample safely” in place of reporting dissolved oxygen concentration.

C. Effluent Limitations

The Facility’s wastewater (effluent), following treatment, shall comply with the Effluent Limitations below in Table 3.

Table 3. Effluent Limitations.

Parameter	Units	Limitation	Determination
Average Daily Flow	MGD	0.160	30-Day Average Dry-Weather Flow
pH	Std. Units	≥ 6.00 ≤ 9.00	--
BOD5	mg/L	65 45	7-Day Average 30-Day Average

D. Groundwater Limitations

Discharge of wastewater from the Facility shall not cause groundwater to:

1. Exceed applicable WQOs;

2. Acquire taste, odor, toxicity, or color that create nuisance conditions;

3. Impair beneficial uses; or

4. Contain constituents or organisms in excess of applicable Title 22 MCLs (see, e.g., Title 22, § 64426.1 [bacteriological constituents], § 64431 [inorganics], § 64444 [organics], § 64678 [lead, copper]).

E. Solids Disposal Requirements[12]

1. Sludge and Solid Waste shall be removed from screens, sumps, and ponds as needed to ensure optimal plant operation.

2. Residual sludge, biosolids, and solid waste shall be permanently disposed offsite at a landfill permitted under Title 27, section 20000 et seq.

F. Monitoring, Reporting and Notification Requirements

1. **Compliance with Monitoring and Reporting Program.** The Discharger shall comply with the Monitoring and Reporting Program (MRP) in Attachment A, or in the event of a subsequently issued Revised MRP, the provisions of that Revised MRP, which shall supersede the provisions of Attachment A as the operative MRP.

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[12] For the purposes of this section: “sludge” means the solid, semisolid, and liquid residues removed during primary, secondary, or advanced wastewater treatment processes; “solid waste” includes grit and screenings generated during preliminary treatment at the Facility; “residual sludge” means sludge that will not be subject to further treatment at the Facility; and “biosolids” refers to sludge that has been treated and tested and shown to be capable of being beneficially used as a soil amendment for agriculture, silviculture, horticulture, and land reclamation activities pursuant to federal and state regulations.

2. **Noncompliance Notifications.** Discharger shall report any noncompliance that may endanger human health or the environment. Information shall be provided orally to the Colorado River Basin Water Board office and the Office of Emergency Services (OES) within 24 hours of when the Discharger becomes aware of the incident. If noncompliance occurs outside of business hours, the Discharger shall leave a message on the Colorado River Basin Water Board's office voicemail.

   A written report shall also be provided within five business days of the time the Discharger becomes aware of the incident. The written report shall contain a description of the noncompliance and its cause, the period of noncompliance, the anticipated time to achieve full compliance, and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. A final certified report must be submitted through GeoTracker. Additional information may be added to the certified report, in the form of an attachment, at any time.

   All other forms of noncompliance shall be reported in the next scheduled Self-Monitoring Report (SMR), or earlier if requested by the Executive Officer.

3. **General Monitoring Requirements.**

   a. **Testing and Analytical Methods.** The collection, preservation, and holding times of all samples shall be performed in accordance with USEPA-approved procedures. Except as otherwise specified in the MRP or as approved in writing by the Executive Officer, all analyses shall be conducted in accordance with the latest editions of either of the USEPA's *Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act* (40 C.F.R. part 136); or *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods Compendium* (SW-846).

   b. **Laboratory Certification.** Except as otherwise approved in writing by the Executive Officer, all analyses shall be conducted by a laboratory certified by the State Water Resources Control Board, Division of Drinking Water's Environmental Laboratory Accreditation Program (ELAP).

   c. **Representative Sampling.** All samples shall be representative of the volume and nature of the discharge or matrix of material

sampled. The time, date, and location of each grab sample shall be recorded on the chain of custody form for the sample. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved in writing by Colorado River Basin Water Board staff.

d. **Instrumentation and Calibration.** All monitoring instruments and devices used by the Discharger shall be properly maintained and calibrated to ensure their continued accuracy. Any flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices. In the event that continuous monitoring equipment is out of service for a period greater than 24 hours, the Discharger shall obtain representative grab samples each day the equipment is out of service. The Discharger shall correct the cause(s) of failure of the continuous monitoring equipment as soon as practicable. The Discharger shall report the period(s) during which the equipment was out of service and if the problem has not been corrected, shall identify the steps which the Discharger is taking or proposes to take to bring the equipment back into service and the schedule for these actions.

e. **Field Test Instruments.** Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided:

    i. The user is trained in proper use and maintenance of the instruments;

    ii. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;

    iii. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and

    iv. Field calibration reports are submitted.

4. **General Reporting Requirements.** The Discharger shall comply with the following General Reporting Requirements:

   a. **Electronic Submittal.** All materials shall be submitted electronically via the GeoTracker Database (https://geotracker.waterboards.ca.gov).[13] After uploading, Dischargers shall notify Colorado River Basin Water Board staff via email to RB7_WDRs_paperless@waterboards.ca.gov, or another address specified by staff. The following information shall be included in the body of the email:

Attention:	Land Disposal Unit
Report Title:	[Report Title]
Upload ID:	[Number]
Facility:	Salton City Lansing Avenue Wastewater Treatment Facility
County:	Imperial County
GeoTracker ID:	WDR100035566

   b. **Qualified Professionals.** All technical reports[14] submitted under this Order shall be prepared by, or under the direct supervision of, a competent licensed civil engineer or engineering geologist (Qualified Professional). The submittal shall be signed and stamped by the Qualified Professional, and contain a brief summary of the Qualified Professional's qualifications.

   c. **Data Presentation and Formatting.** In reporting monitoring data, the Discharger shall arrange data in tabular form so that the date, the constituents, the concentrations, and the units are readily discernible. Additionally, data shall be summarized in a manner that clearly illustrates compliance/noncompliance.

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[13] Large files must be split into appropriately labelled, manageable file sizes and uploaded into GeoTracker.

[14] A "technical report" is a one incorporating the application of scientific or engineering principles.

d. **Non-Detections / Reporting Limits.** Unless reporting limits (RL) are specified in the same table, non-detections and sub-RL concentrations shall be reported as "< [limit]" (e.g., "< 5 µg/L").

e. **Units.** Absent specific justification, all monitoring data shall be reported in the units specified herein.

f. **Certification.** All submittals under this Order shall be accompanied by a transmittal containing the following certification that is signed by either the Required Signatory or their Authorized Representative:

> I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

i. The Required Signatory shall be the individual identified in Table 4 below.

ii. To act as an Authorized Representative for a Required Signatory (Table 4), an individual must be identified[15] and duly authorized in writing by the Required Signatory; this written authorization shall be provided to the Board beforehand, or concurrently with the first submittal signed by the Authorized Representative.

[15] This identification may be in reference to the Authorized Representative's title or position, provided it is one that customarily has the responsibility of supervising the Facility's overall operation (e.g., facility manager, superintendent).

Table 4. Required Signatories for Submittals.

Category of Discharger	Required Signatory
Corporations	Senior Vice President or Equivalent Principal Executive
Limited Liability Companies (LLCs)	Manager
General Partnerships and Limited Partnerships (LPs)	General Partner
Sole Proprietorships	Sole Proprietor
Public Agencies	Principal Executive or Ranking Elected/Appointed Official

G. Special Provisions

1. **Groundwater Quality and Depth Monitoring Networks Work Plan.** Within 12 months of adoption of this Order, the Discharger shall submit, for Executive Officer approval, a technical work plan and proposed time schedule[16] for installing a groundwater monitoring network with the ability to monitor groundwater levels around the evaporation/percolation ponds as well as a network with the ability to monitor upgradient and downgradient water quality conditions.

   The work plan shall include a description of the groundwater monitoring networks (e.g., monitoring locations, sampling protocol, or quality assurance/quality control) and a time schedule for the implementation of the networks. Within six months of Executive Officer written approval,[17]

[16] The time schedule for proposed activities shall not exceed six months from Executive Officer approval of the time schedule.

[17] The Executive Officer may approve the work plan and time schedule with any revisions that are determined to be warranted under the circumstances.

the Discharger shall begin implementation of the work plan in accordance with the time schedule.

2. **Total Nitrogen Effluent Limit Feasibility Study.** Within three years of adoption of this Order, the Discharger shall submit a technical report evaluating the feasibility of implementing nitrogen removal for compliance with a 10 mg/L effluent limit for total nitrogen, which may be incorporated in future WDRs.

3. **Request for Extension.** If the Discharger is unable to comply with the Special Provisions within the applicable schedule, the Discharger may request an extension subject to approval by the Executive Officer. The extension request must be in writing and submitted as soon as a delay is recognized and prior to the compliance date. The extension request should include justification for the delay.

H. Other Provisions

1. The Discharger shall comply with the Time Schedule in Table 5 below.

Table 5. Time Schedule.

Task	Deadline
1. Submit Work Plan and Time Schedule to install the Groundwater Monitoring Networks and a Proposed Monitoring and Reporting Program	Within 12 Months of adoption of this Order
2. Begin implementation of the Groundwater Monitoring Well Work Plan	Within six months of approval of the Work Plan by the Executive Officer
3. Submit Total Nitrogen Effluent Limit Feasibility Study	Within three years of adoption of this Order

2. **Facility Inspection.** Dischargers and their agents shall permit Board staff to inspect the Enrolled Facility during business to verify compliance with WDRs. Failure to consent to a reasonable request for inspection constitutes a violation of this Order.

3. **Facility Operation and Maintenance.** The Discharger shall at all times properly operate and maintain all systems and components of collection, treatment, and control installed or used by the Discharger to achieve compliance with this Order. Proper operation and maintenance includes, but is not limited to, effective performance, adequate process controls, and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities/systems when necessary to achieve compliance with this Order. All systems in service or reserved shall be inspected and maintained on a regular basis. Records of inspections and maintenance shall be retained and made available to the Colorado River Basin Water Board on request.

4. **Duty to Mitigate.** The Discharger shall take all reasonable steps to minimize or prevent any discharge in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment.

5. **Disposal Capacity.** The Discharger shall provide a report to the Colorado River Basin Water Board when it determines that the Facility's average dry-weather flow rate for any month exceeds 80 percent of the design disposal capacity. The report shall indicate what steps, if any, the Discharger intends to take to provide for the expected wastewater disposal capacity necessary when the plant reaches design capacity.

6. **Material Changes.** Prior to any modifications which would result in any material change in the quality or quantity of wastewater treated or discharged, or any material change in the location of discharge, the Discharger shall report all pertinent information in writing to the Colorado River Basin Water Board, and if required by the Colorado River Basin Water Board, obtain revised requirements before any modifications are implemented.

7. **Operational Personnel.** The Facility shall be supervised and operated by persons possessing the necessary expertise in the operation and maintenance of the wastewater treatment system.

8. Physical copies of this Order, as well as of the operative Monitoring and Reporting Program, shall be maintained onsite at the Facility, and shall be identified to all operating personnel; the Discharger shall ensure that such personnel are familiarized with these materials.

9. The Discharger shall retain copies of all reports required by this Order and the associated MRP. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report, or application. Records may be maintained electronically. This period may be extended in writing by the Executive Officer.

10. **Changes in Ownership.** Prior to any change in ownership of this operation, the Discharger shall notify the Executive Officer in writing at least 30 days in advance. The notice shall include a written transfer agreement between the existing owner and the new owner. At a minimum, the transfer agreement shall contain a specific date for transfer of responsibility for compliance with this Order, and an acknowledgment that the new owner or operator is liable for compliance with this Order from the date of transfer. The Board may require modification or revocation and reissuance of this Order to formally substitute the permitted parties, and to incorporate other requirements as appropriate.

LIST OF ATTACHMENTS

Attachment A—Monitoring and Reporting Program
Attachment B—Maps and Facility Diagrams

ENFORCEMENT

If, in the opinion of the Executive Officer, the Dischargers fail to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability, or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to $10,000 per violation, per day, depending on the violation, pursuant to the Water Code, including sections 13268, 13350 and 13385. The Colorado River Basin Water Board reserves its right to take any enforcement actions authorized by law.

ADMINISTRATIVE REVIEW

Any person aggrieved by this Colorado River Basin Water Board action may petition the State Water Board for review in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 et seq. To be timely, the petition must be received by the State Water Board by 5:00 pm on the 30th day after the date of this Order; if the 30th day falls on a Saturday, Sunday or state holiday, the petition must be received by the State Water Board by 5:00 pm on the next business day. The law and regulations applicable to filing petitions are available on the State Water Board

website (http://www.waterboards.ca.gov/public_notices/petitions/water_quality). Copies will also be provided upon request.

ATTACHMENT A—MONITORING AND REPORTING PROGRAM

A. General Requirements

1. **Testing and Analytical Methods.** The collection, preservation, and holding times of all samples shall be in accordance with U.S. Environmental Protection Agency (USEPA)-approved procedures. All analyses shall be conducted in accordance with the latest edition of either the USEPA's Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act (40 C.F.R. part 136) or Test Methods for Evaluating Solid Waste: Physical/Chemical Methods Compendium (SW-846), unless otherwise specified in the MRP or approved by the Colorado River Basin Water Board's Executive Officer.

2. **Laboratory Certification.** All analyses shall be conducted by a laboratory certified by the State Water Resources Control Board (State Water Board), Division of Drinking Water's Environmental Laboratory Accreditation Program (ELAP), unless otherwise approved by the Colorado River Basin Water Board's Executive Officer.

3. **Reporting Levels.** All analytical data shall be reported with method detection limits (MDLs) and with either the reporting level or limits of quantitation (LOQs) according to 40 Code of Federal Regulations part 136, Appendix B. The laboratory reporting limit for all reported monitoring data shall be no greater than the practical quantitation limit (PQL).

4. **Sampling Location(s).** Samples shall be collected at the location(s) specified in the WDRs. If no location is specified, sampling shall be conducted at the most representative sampling point available.

5. **Representative Sampling.** All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each grab sample shall be recorded on the chain of custody form for the sample. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Colorado River Basin Water Board staff.

6. **Instrumentation and Calibration.** All monitoring instruments and devices used by the Discharger shall be properly maintained and calibrated to ensure their continued accuracy. Any flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices. In the event that continuous monitoring equipment is out of service for a period greater than 24 hours, the Discharger shall obtain

representative grab samples each day the equipment is out of service. The Discharger shall correct the cause(s) of failure of the continuous monitoring equipment as soon as practicable. The Discharger shall report the period(s) during which the equipment was out of service and if the problem has not been corrected, shall identify the steps which the Discharger is taking or proposes to take to bring the equipment back into service and the schedule for these actions.

7. **Field Test Instruments.** Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that:

   a. The user is trained in proper use and maintenance of the instruments;

   b. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;

   c. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and

   d. Field calibration reports are submitted.

8. **Records Retention.** The Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, for a minimum of five (5) years from the date of the sampling or measurement. This period may be extended by request of the Colorado River Basin Water Board's Executive Officer at any time. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurement(s);

   b. The individual(s) who performed the sampling or measurement(s);

   c. The date(s) analyses were performed;

   d. The individual(s) who performed the analyses;

   e. The analytical techniques or method used; and

f. All sampling and analytical results, including:

i. units of measurement used;

ii. minimum reporting limit for the analyses;

iii. results less than the reporting limit but above the method detection limit (MDL);

iv. data qualifiers and a description of the qualifiers;

v. quality control test results (and a written copy of the laboratory quality assurance plan);

vi. dilution factors, if used; and

vii. sample matrix type.

9. **Inoperative Facility.** If the Facility is not in operation, or there is no discharge during a required reporting period, the Discharger shall forward a letter to the Colorado River Basin Water Board indicating that there has been no activity during the required reporting period.

B. Monitoring Requirements

1. Wastewater that is discharged to the Designated Disposal Area (Influent) shall be monitored in accordance with MRP Table 1 below.

MRP Table 1. Influent Monitoring Schedule.

Constituent	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Flow	MGD	Measurement	Daily	Quarterly
BOD5	mg/L	Grab	Monthly	Quarterly
TSS	mg/L	Grab	Monthly	Quarterly

2. Wastewater stored within the Designated Disposal Area (Effluent) shall be monitored in accordance with MRP Table 2 below. Samples shall be collected from opposite the inlet at a depth of one foot and from each pond in use. If there is little or no water in the aeration/percolation ponds, the monitoring report shall state: “No standing water in ponds” in place of reporting dissolved pH and dissolved oxygen concentration.

MRP Table 2. Effluent (Pond) Monitoring Schedule.

Constituent	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Freeboard	0.1 feet	Measurement	Monthly	Quarterly
pH	Std. Units	Grab	Weekly	Quarterly
Dissolved Oxygen	mg/L	Grab	Weekly	Quarterly
BOD5	mg/L	Grab	Monthly	Quarterly
TSS	mg/L	Grab	Monthly	Quarterly
TDS	mg/L	Grab	Monthly	Quarterly
Nitrate as N	mg/L	Grab	Quarterly	Quarterly
Nitrite as N	mg/L	Grab	Quarterly	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly	Quarterly
Ammonia as N	mg/L	Grab	Quarterly	Quarterly
VOCs (EPA 624)	µg/L	Grab	Annually	Annually

3. The domestic water supply shall be monitored in accordance with MRP Table 3 below. Samples shall be collected at a location or in a manner that is representative of actual TDS concentrations of domestic water distributed to the community.

MRP Table 3. Source Water Monitoring Schedule.

Constituent	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
TDS	mg/L	Grab	Monthly	Quarterly

4. Upon approval of the groundwater elevation monitoring workplan, the Discharger shall conduct groundwater monitoring of the designated well(s)[18] in accordance with MRP Table 4 below.

MRP Table 4. Groundwater Elevation Monitoring Schedule.

Constituent	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Depth to Groundwater	ft	Measurement	Quarterly	Quarterly

[18] It is anticipated that the Discharger may utilize a separate monitoring well to monitor groundwater elevations.

5. Once constructed, the Facility's groundwater quality monitoring wells shall be monitored in accordance with MRP Table 5.

MRP Table 5. Groundwater Quality Monitoring Schedule.

Constituent	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Depth to Groundwater	ft	Measurement	Quarterly	Quarterly
Groundwater elevation	ft	Calculated	Quarterly	Quarterly
Flow Gradient	feet/foot	Calculated	Quarterly	Quarterly
Flow Direction	degrees	Calculated	Quarterly	Quarterly
TDS	mg/L	Grab	Quarterly	Quarterly
Nitrate as N	mg/L	Grab	Quarterly	Quarterly
Nitrite as N	mg/L	Grab	Quarterly	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly	Quarterly
Sulfate	mg/L	Grab	Quarterly	Quarterly
Chloride	mg/L	Grab	Quarterly	Quarterly
Fluoride	mg/L	Grab	Quarterly	Quarterly
VOCs	µg/L	Grab	Quarterly	Quarterly
Total Coliform	MPN/100mL	Grab	Quarterly	Quarterly
E. Coli	MPN/100mL	Grab	Quarterly	Quarterly

6. Prior to offsite disposal, sludge generated at the Facility shall be sampled and analyzed in accordance with MRP Table 6. (See section C for reporting requirements.)

MRP Table 6. Sludge Monitoring Schedule.

Constituent	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Arsenic	mg/kg	Composite	Annually	Annually
Cadmium	mg/kg	Composite	Annually	Annually
Copper	mg/kg	Composite	Annually	Annually
Chromium	mg/kg	Composite	Annually	Annually
Lead	mg/kg	Composite	Annually	Annually
Mercury	mg/kg	Composite	Annually	Annually
Molybdenum	mg/kg	Composite	Annually	Annually
Nickel	mg/kg	Composite	Annually	Annually
Selenium	mg/kg	Composite	Annually	Annually
Zinc	mg/kg	Composite	Annually	Annually
Fecal Coliform	MPN/gram	Composite	Annually	Annually

C. Reporting Requirements

1. **Quarterly Reporting.** Daily, weekly, monthly, and quarterly monitoring shall be included in the Quarterly Self-Monitoring Reports (SMRs). Quarterly SMRs shall be submitted by **January 31st, April 30th, July 31st, and October 31st**. Each report shall include, at a minimum, the following:

    a. **Cover Letter.** A transmittal letter summarizing the essential points in the report.

    b. **Maps.** Maps depicting the Facility layout and the location of sampling points.

    c. **Tabulated Monitoring Data.** Tables of the data collected. Each row shall be a monitoring event and each column shall be a separate parameter at a single location (or a single average, as appropriate).

    d. **Compliance Summary.** Identification of any violations found since the last report was submitted, and actions taken or planned for correcting each violation. If the Discharger previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. If no violations have occurred since the last submittal, this shall be stated.

2. **Annual Reporting.** In addition to the above requirements, the 4th Quarter SMR (due January 31) shall contain the following:

    a. **Tabulated Summary of All Previous Monitoring Data.** Tables of the data collected. The tables shall include all of the data collected to-date at each monitoring point, organized in chronological order, with the oldest data in the top row and progressively newer data in rows below the top row. Each row shall be a monitoring event and each column shall be a separate parameter at a single location (or a single average, as appropriate).

    b. **Graphical Display.** Graphs depicting monitoring parameters through time, with the concentrations being the y-axis and time being the x-axis. Logarithmic scales can be used for values that vary by orders of magnitude. Individual graphs can combine multiple locations or multiple chemicals if that allows the data to be compared more easily.

c. **Pretreatment Report.** Information concerning significant industrial wastewater discharged to the treatment facility, and an affirmative statement concerning whether there is a need to establish an industrial pretreatment program.

d. **Operation and Maintenance Summary.** Information concerning operation and maintenance of the facility, including documentation showing the calibration of flow meters and equipment, modifications to the Operation and Maintenance Manual, and any modifications or updates to the Discharger's wastewater rules and/or regulations.

e. **Compliance Summary.** Identification of any violations found since the last report was submitted, and actions taken or planned for correcting each violation. If the Discharger previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. If no violations have occurred since the last submittal, this shall be stated.

f. **Summary of Sludge Disposal Activities.** The quantity, location, and method of disposal of all sludge and similar solid materials being produced at the Facility. If no sludge is disposed of during the subject year, the Discharger shall indicate "No Sludge Removed."

3. **Supplemental Monitoring.** The results of any analyses or monitoring activities conducted in addition to those specified herein, or conducted on more frequent basis than otherwise required herein, shall be reported to the Colorado River Basin Water Board in the next regularly submitted SMR.

ATTACHMENT B—MAPS AND FACILITY DIAGRAMS

Figure 1. Map with Facility Location

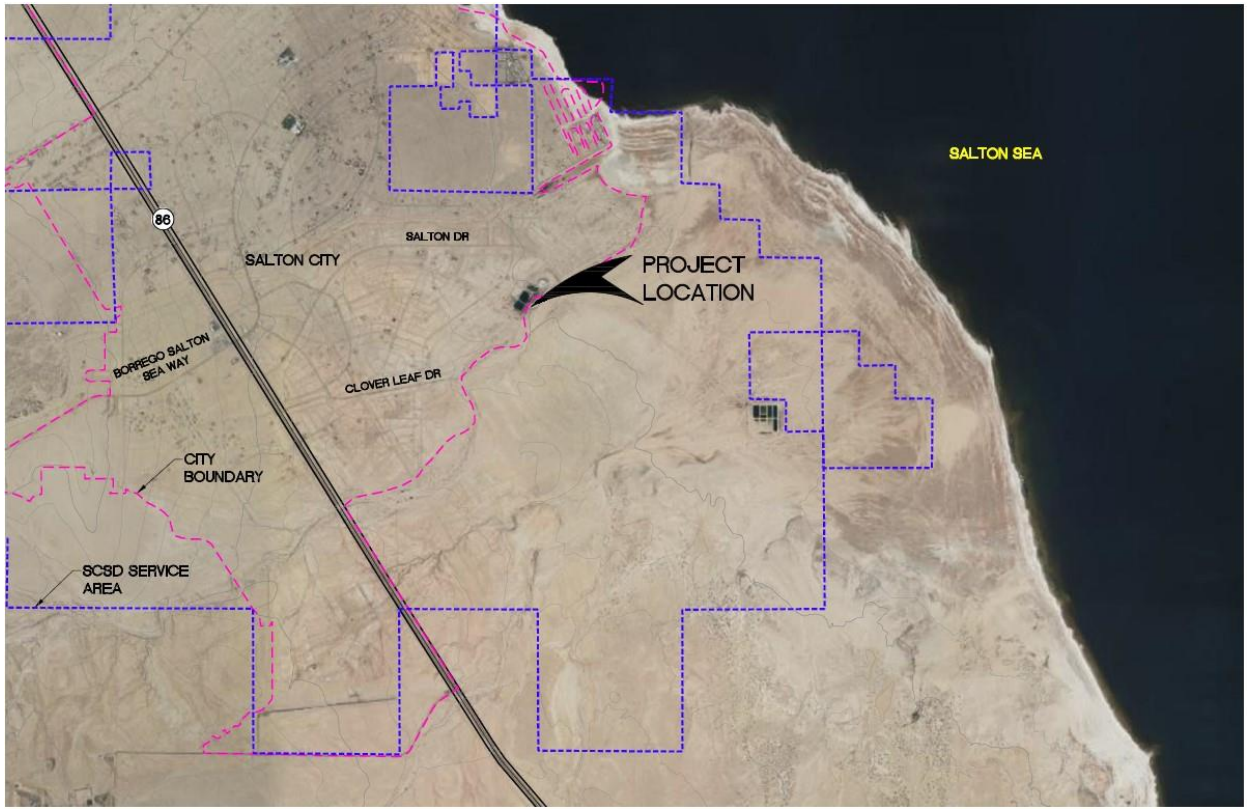

Figure 2. Site Plan

73-720 Fred Waring Dr. #100
Palm Desert, CA 92260
(760) 346-7491
Regional Board Website (https://www.waterboards.ca.gov/coloradoriver)

WASTE DISCHARGE REQUIREMENTS ORDER R7-2024-0020

ORDER INFORMATION

Order Type(s):	Waste Discharge Requirements (WDRs)
Status:	ADOPTED
Program:	Non-15 Discharges to Land
Discharger(s):	Salton Community Services District
Facility:	Thomas R. Cannell Wastewater Treatment Facility
Address:	2196 Palm View Avenue, Salton City, California 92275
County:	Imperial County
APN(s):	017-150-004
GeoTracker ID:	WDR100035569
WDID:	7A130117001
Prior Order(s):	WDRs Order R7-2018-0013 WDRs Order R7-2012-0034 WDRs Order R7-2008-0002 WDRs Order 00-094

CERTIFICATION

I, Paula Rasmussen, Executive Officer, hereby certify that the following is a full, true, and correct copy of the order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on June 11, 2024.

Original signed by
PAULA RASMUSSEN
Executive Officer

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GLOSSARY

Antidegradation Policy .....Statement of Policy with Respect to Maintaining High Quality Waters in California, State Water Resources Control Board Resolution 68-16

Basin Plan.....Water Quality Control Plan for Colorado River Basin Region (inclusive of all amendments)

bgs.....Below Ground Surface

BOD5 .....Five-Day Biochemical Oxygen Demand at 20°C

BPTC .....Best Practicable Treatment and Control

CEQA.....California Environmental Quality Act (Pub. Resources Code, § 21000 et seq.)

CEQA Guidelines.....Regulations for Implementation of CEQA (Cal. Code Regs., tit. 14, § 15000 et seq.)

DTSC .....California Department of Toxic Substances Control

DWR.....California Department of Water Resources

GPD .....Gallons per Day

MCL[s] .....Maximum Contaminant Level[s] for Drinking Water under Title 22

mg/L.....Milligrams per Liter

MGD.....Millions of Gallons per Day

MRP .....Monitoring and Reporting Program

NPDES.....National Pollutant Discharge Elimination System

ROWD.....Report of Waste Discharge

Title 22.....California Code of Regulations, Title 22

Title 23.....California Code of Regulations, Title 23

Title 27.....California Code of Regulations, Title 27

USEPA.....United States Environmental Protection Agency

WDRs.....Waste Discharge Requirements

WQO[s].....Water Quality Objective[s]

(findings begin on next page)

FINDINGS

The Colorado River Basin Regional Water Quality Control Board (Colorado River Basin Water Board) hereby finds as follows:

Introduction

1. This Order prescribes waste discharge requirements (WDRs) for the Salton Community Services District (Discharger), which owns and operates the Thomas R. Cannell Wastewater Treatment Facility (Facility) in Imperial County.

2. On January 27, 2023, the Discharger submitted a Report of Waste Discharge (ROWD) for updated WDRs for the Facility. A revised ROWD was subsequently submitted with supplemental information on December 18, 2023[1].

3. The Facility is located in Salton City, near the intersection of Salton Drive and Lansing Avenue, in Imperial County, Section 26, Township 10 South, Range 10 East, Mount San Bernardino Base and Meridian. The Assessor's Parcel Number (APN) is 017-150-004. The Facility's location is also depicted on the maps in **Attachment B**.

4. Regulatory coverage under this Order is strictly limited in scope to those waste discharges, activities and processes described and expressly authorized herein.

5. The Discharger is prohibited from initiating the discharge of new wastes (i.e., other than those described herein), or making material changes to the character, volume and timing of waste discharges authorized herein, without filing a new ROWD per Water Code section 13260 (Wat. Code, § 13264, subd. (a).). Failure to file a new ROWD before initiating such material changes shall constitute an independent violation of this Order.

6. This Order is also strictly limited in applicability to those individuals and/or entities specifically designated above as "Discharger," subject only to the discretion to designate or substitute new parties in accordance with this Order.

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[1] The revised ROWD proposes an increased disposal capacity from 0.185 million gallons per day (MGD) to 0.225 MGD, as well as a proposal to analyze the existing groundwater monitoring network and implement a data collection program.

Facility

7. The Facility is a wastewater treatment and disposal facility that provides sewerage service to residents and businesses of Salton City, an unincorporated community in Imperial County.

8. The Facility went into operation in October 2008 and was built to supplement treatment and disposal capacity for Salton City.

9. The Discharger also owns and operates the Lansing Avenue Wastewater Treatment Facility (Lansing Avenue Facility), regulated under its own individual WDRs Order and a wastewater collection system regulated under State Water Resources Control Board's (State Water Board) Order No. 2022-0103-DWQ (Statewide General Waste Discharge Requirements for Sanitary Sewer Systems). The Discharger conveys excess wastewater approximately 9,000 feet from the Lansing Avenue Facility to the Thomas R. Cannell Wastewater Treatment Facility through a 12-inch force main.

10. The Facility consists of the following: headworks, including an inline comminutor and a magnetic flow meter with bypass provided in a below ground precast concrete vault; two aeration ponds, two clarifiers, two polishing ponds, and four evaporation/percolation ponds; and an emergency disposal pond, all shown in **Attachment B**. Typically, only half of the ponds are in operation at any given time. For the purposes of this Order, the six evaporation/percolation ponds are collectively referred to as the "**Designated Disposal Area**."

11. Although the Facility was designed for a disposal capacity of 0.500 MGD, the permitted capacity was initially 0.250 MGD. However, the Facility began experiencing surfacing of wastewater around the perimeter of the Facility. The Facility's WDRs were subsequently revised in June 2012 accordingly to lower the effluent disposal capacity to 0.185 MGD. At this time, the Facility was operating near its permitted treatment capacity and the Lansing Avenue Facility was brought back online to allow for additional disposal capacity.

12. The discharger now proposes to increase the Facility's disposal capacity of the Facility from 0.185 MGD to 0.225 MGD. The proposed increase is based on changing hydrogeological conditions. Specifically, the Salton Sea's water level

has dropped approximately 11 feet over the last 20 year, thereby allowing for more subsurface disposal capacity without saturation.[2]

13. The Discharger proposes to implement a project to reduce the amount of treated wastewater discharged into the Facility's evaporation/percolation ponds, which would help safeguard against peak flows and reduce short-term growth in the volume of discharge. The project would consist of planting non-fruit bearing trees and plants[3] along with the installation of an irrigation system fed by pond effluents around the site perimeter inside the fencing. The Discharger estimates that approximately 1,425 trees and 1,425 other plants will be planted. When mature, the trees will require approximately 45,600 gallons of treated wastewater per day, and the other plants will require 7,125 gallons of treated wastewater per day.

14. The percolation ponds are monitored for dissolved oxygen and pH when the pond level is one foot deep or higher.

15. Table 1 below summarizes the characterization of Facility influent, as reported in the Discharger's Self-Monitoring Reports (SMRs) for January 2019 through December 2023.

Table 1. Influent Characterization.

Constituent	Units	Average	Maximum	Minimum
Flow	MGD	0.177	0.239	0.112
BOD5[4]	mg/L	72.95	157	15
Total Suspended Solids (TSS)	mg/L	97.9	720	12

[2] In the mid-2000's, the Salton Sea was at 229 feet below sea level, whereas it is now 240 feet below sea level.

[3] The trees and other plants the Discharger plans to plant and irrigate are as follows: Mesquite Trees, Brittlebush, Turtleback, Dye-Weed, Loco-Weed, and Burrow-Weed.

[4] Five-Day Biochemical Oxygen Demand at 20°C.

16. The Discharger monitors a network of groundwater elevation monitoring wells at the Facility (Wells 1 through 5). Table 2 below summarizes the depth of groundwater in the area of the disposal ponds, as reported in the Discharger's SMRs for January 2019 through December 2023.

Table 2. Groundwater Depth.

Well	Units	Average	Maximum	Minimum
Well 1	ft.	8.59	9.50	8.50
Well 2	ft.	8.45	10.5	6.22
Well 3	ft.	9.61	10.9	3.60
Well 4	ft.	5.68	8.81	3.90
Well 5	ft.	5.75	10.01	4.40

Proposed Changes at Facility

17. Since 2021, the Facility has implemented operational measures including increased aeration time to reduce effluent BOD. Only four of the six percolation ponds at the Facility are used due to increased percolation rates.

18. A groundwater monitoring well network beyond groundwater elevation collection[5] is necessary to monitor local hydrologic conditions and impacts from Facility discharges. The Discharger proposes to use a phased approach for groundwater monitoring at the Facility. Should surfacing of wastewater occur around the perimeter of the six onsite evaporation/percolation ponds (i.e. Designated Disposal Area), the Discharger will transfer wastewater flows to the Lansing Avenue Facility.

[5] While the Facility has a network of monitoring wells from which groundwater elevation data has been collected, there is no available data regarding the depth and/or screened intervals for these monitoring wells, nor reliable information regarding surveyed reference points from which these levels are collected.

19. No changes in the character of influent are anticipated. The ROWD does not identify discharges from industrial users subject to federal categorical Pretreatment Standards into its collection system. The Discharger will be required to provide an annual routine assessment of its industrial dischargers in order to determine whether a pretreatment program will be necessary.

20. Table 3 summarizes the Facility's effluent, as reported in the Discharger's SMRs from January 2019 through December 2023.

Table 3. Effluent Characterization.

Constituent	Units	Average	Maximum	Minimum
pH	Std. Units	7.8	8.7	6.9
BOD5	mg/L	43.4	131.6	4.0
TSS	mg/L	124.7	1300	2
Total Dissolved Solids (TDS)	mg/L	1252.3	5196	300
Dissolved Oxygen	mg/L	5.6	10.9	2.0
Nitrate as N	mg/L	5.94	13	ND
Nitrite as N	mg/L	3.16	13	ND
Total Nitrogen	mg/L	29.2	40.0	21
Ammonia as N	mg/L	8.22	22	0.09
Total Phosphorus	mg/L	5.0	5.8	4.2

General Site Conditions

21. The site elevation is approximately 215 feet below sea level. The site slopes are relatively flat and are generally sloped to the northeast with an average slope of approximately 2.5 percent.

22. Tule Wash, a drainage course is located adjacent to the Facility. The Salton Sea is located approximately 1.7 miles to the northeast. Over the last 20 years, the

water level in the Salton Sea has decreased approximately 11 feet. The Salton Sea shoreline nearest to the plant has receded as much as 3,800 linear feet over the same period.

23. Soils in the area consist generally of sand with silt and silty sand for the top seven to fifteen feet, underlain with silt and clay.

24. The site is located in a seismically active desert region.

25. Based on data from the nearest weather station (KCATHERM30), the Facility has an annual average precipitation of about 3 inches and a mean pan evaporation of 72 inches per year.

26. According to National Oceanic and Atmospheric Administration (NOAA) Precipitation Frequency Atlas 14, Vol. 6 (rev. 2014), 100-year and 1,000-year, 24-hour rainfall events are estimated to result in 4.01 and 6.95 inches of precipitation, respectively.[6]

27. According to the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (https://msc.fema.gov/portal), the Facility is not located within a 100-year floodplain.

28. Land uses in the vicinity include residential, industrial, and recreational uses.

29. Domestic water is supplied by the Coachella Valley Water District (CVWD). From January 2019 to December 2023, TDS concentrations averaged approximately 611.3 mg/L. Between 2022 to 2023, average concentrations decreased to 170 mg/L. This dramatic decrease is attributed to a change in the source water of CVWD. CVWD is using groundwater from wells outside of the local area. There are no domestic wells within 500 feet of the on-site infiltration ponds.

Groundwater and Subsurface Conditions

30. Although the Discharger's SMRs for January 2019 through December 2023 characterize the depth to groundwater at the Facility to range from an average of 5.68 and 9.61 feet, the depth must be reevaluated in light of the changing hydrologic conditions described in Finding 12.

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[6] Source: NOAA Precipitation Frequency Data Server (https://hdsc.nws.noaa.gov/hdsc/pfds)

31. According to the Discharger, local groundwater has been historically estimated to have a TDS concentration ranging between 29,200 and 34,500 mg/L. However, there is limited and outdated groundwater monitoring data for the Facility. As a result, the current groundwater flow rate and gradient direction are unknown and must be evaluated. The Discharger proposes to analyze the existing monitoring network surrounding the Facility to determine subsurface conditions.

Regulatory Considerations

Waste Discharge Permitting Authority

32. This Order is issued pursuant to Water Code section 13263, subdivision (a), which provides that "[t]he regional board, after any necessary hearing, shall prescribe requirements as to the nature of any proposed discharge, existing discharge, or material change in an existing discharge…, with relation to the conditions existing in the disposal area or receiving waters upon, or into which, the discharge is made or proposed."

33. The statute further provides that WDRs "shall implement … water quality control plans, and shall take into consideration the beneficial uses to be protected, the water quality objectives reasonably required for that purpose, other waste discharges, the need to prevent nuisance,[7] and the provisions of Section 13241." (Wat. Code, § 13263, subd. (a).)

34. The ability to discharge wastewater is a privilege, not a right. The adoption of this Order shall not be construed as establishing a vested right in the continuance of discharge activities. (Wat. Code, § 13263, subd. (g).)

35. For the purposes of determining waste discharge fees under California Code of Regulations, title 23 (Title 23), section 2200, the Facility has a threat-complexity rating of **3-B**.

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[7] "Nuisance" is defined by statute as a condition that: "(1) Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property[;] [¶] (2) Affects at the same time an entire community or neighborhood, or any considerable number of persons…[;] [and] [¶] (3) Occurs during, or as a result of, the treatment or disposal of wastes." (Wat. Code, § 13050, subd. (m).)

a. Threat Category “3” reflects waste discharges that could either degrade water quality without violating water quality objectives, or cause beneficial use impairments that are minor relative to Categories 1 and 2.

b. Complexity Category “B” reflects any discharger not included in Category A, with either (1) physical, chemical or biological treatment systems (except for septic systems with subsurface disposal), or (2) any Class II or Class III WMUs.

Basin Plan Implementation

36. The Water Quality Control Plan for the Colorado River Basin Region (Basin Plan) designates beneficial uses of groundwater and surface water within the region, establishes numeric and narrative water quality objectives (WQOs) protective of such uses, and incorporates applicable State Water Resources Control Board (State Water Board) plans and policies.

37. This Order prescribes WDRs for discharges to groundwater within the Anza-Borrego Planning Area, West Salton Sea Hydrologic Unit (721.00), for which the designated beneficial uses of groundwater are as follows:

a. Municipal and Domestic Supply (MUN); and,

b. Agricultural Supply (AGR).

38. The Basin Plan establishes the following WQOs for MUN-designated groundwater:

a. Tastes and Odors (Narrative): Groundwater shall not contain taste or odor-producing substances that adversely affect beneficial uses as a result of human activity (Ch. 3, § IV.A);

b. Coliform Bacteria (Numeric): Groundwater shall not contain coliform organisms in exceedance of the limits specified in California Code of Regulations, title 22 (Title 22), section 64426.1 (Ch. 3, § IV.B); and

c. Chemical Constituents (Numeric): Groundwater shall not contain organic and inorganic chemical constituents in concentrations exceeding the Maximum Contaminant Levels (MCLs) established for drinking water per Title 22, sections 64431, 64444 and 64678 (Ch. 3, § IV.C).

39. With respect to the narrative WQO for chemical constituents, specifically the objective for TDS, the Title 22 Secondary MCL specifies a recommended limit of 500 mg/L, and an upper limit of 1,000 mg/L.[8]

40. The Basin Plan incorporates State Water Board Resolution 88-63 *(Sources of Drinking Water Policy)*, which provides that groundwater with TDS in excess of 3,000 mg/L cannot reasonably be expected to supply a public water system. However, the *Sources of Drinking Water Policy* also provides that all groundwaters shall be designated for MUN beneficial uses until affirmatively de-designated by a Basin Plan Amendment, even if the specified TDS threshold is exceeded. The *Sources of Drinking Water Policy* nevertheless provides a firm outer limit of 3,000 mg/L for use in determining whether local groundwater is usable for MUN beneficial uses, notwithstanding its current designation under the Basin Plan, and irrespective of the groundwater's consistency with the narrative WQO for tastes and odors.

41. In this case, groundwater in the area of the Facility has been historically estimated to have a TDS concentration ranging between 29,200 and 34,500 mg/L. Such salinity is well beyond the *Sources of Drinking Water Policy* threshold for MUN applications (3,000 mg/L), as well as any foreseeable agricultural applications.

Antidegradation Policy

42. The Basin Plan incorporates the State Water Board's *Statement of Policy with Respect to Maintaining High Quality Waters in California*, Resolution 68-16 (Antidegradation Policy), which prohibits the Colorado River Basin Water Board from authorizing discharges that will result in the degradation of "high quality waters," unless it is demonstrated that any such degradation in water quality:

    a. Will not unreasonably affect beneficial uses,[9] or otherwise result in water quality less than that prescribed in applicable plans and policies (e.g., violation of WQOs);

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[8] Salinity may alternatively be expressed in terms of microsiemens per centimeter (µS/cm) of Electrical Conductivity (EC). As a secondary MCL, Title 22 specifies a recommended limit of 900 µS/cm, and an upper limit of 1,600 µS/cm.

[9] The Water Code defines "Pollution" in relevant part as the "alteration of the quality of the waters of the state by waste to a degree which unreasonably affects … [¶] [t]he waters for beneficial uses." (Wat. Code, § 13050, subd. (l)(1)(A).)

b. Will be mitigated through best practicable treatment and control (BPTC);

c. Is consistent with maximum benefit to the people of the state of California.

43. The baseline for determining whether waters are "high quality" under the Antidegradation Policy is the highest quality achieved since the policy was established in 1968. If the subject waters have not achieved the minimum quality necessary to meet WQOs since 1968, the waters are considered "poor quality, which means the Antidegradation Policy does not apply. This determination is made on a constituent-by-constituent basis, meaning that waters may be considered "high quality" with respect to some constituents but not others.

44. Based on experiences with similar facilities, Colorado River Basin Water Board staff have identified the following constituents with the potential to degrade groundwater in the Facility's effluent, each of which is discussed below:

a. Total Nitrogen (Nitrate plus Nitrite),

b. TDS (Salinity), and

c. Coliform Organisms.

45. **Nitrogen:** The Primary Maximum Contaminant Level (MCL) (i.e., WQO) for nitrate plus nitrite as nitrogen is 10 mg/L. According to the Discharger's Annual SMRs from 2019 through 2023, the Facility's effluent has an average total nitrogen concentration ranging between 21 to 40 mg/L, with an average of 29.2 mg/L. However, the assimilative capacity in local groundwater for nitrogen is unclear. Nor is it known whether nitrogen in groundwater will convert to nitrate or nitrite. Without current groundwater quality information, it cannot be ascertained whether the Facility's discharge will result in groundwater not meeting WQOs. Accordingly, this Order requires the Discharger to implement groundwater quality monitoring for the Facility in addition to the currently monitored groundwater elevation. The Discharger is also required to investigate the feasibility of nitrogen treatment to achieve an effluent limitation of 10 mg/L, which may be prescribed in the future (based in part on the results of groundwater monitoring).

46. **TDS (Salinity):** With respect to TDS, groundwater in the area of the Facility has been historically estimated to have a TDS concentration ranging between 29,200 and 34,500 mg/L, which vastly exceeds the 3,000 mg/L outer threshold specified under the *Sources of Drinking Water Policy.* Such high salinity is attributable to natural hydrologic conditions. Non-anthropogenic conditions may be presumed to have remained relatively unchanged since 1968. Accordingly, it may be presumed that local groundwater has remained well above 3,000 mg/L at every point since 1968. Local groundwater is therefore presumed to be "poor quality"

with respect to TDS in particular. The Antidegradation Policy is therefore inapplicable to TDS in local groundwater at the Facility.

47. **Coliform Organisms:** The most probable number (MPN) of coliform organisms in untreated domestic wastewater is typically 10^7 to 10^8 per 100 mL, and in secondary-treated wastewater, a MPN of 10^5 to 10^6 organisms per 100 mL (USEPA, Design Manual: Municipal Wastewater Disinfection, EPA/625/1-86/021, Oct. 1986.). Coliforms do not generally transport through soils any appreciable distance, but given the depth to groundwater at the disposal ponds, it is likely that pathogen-indicator bacteria will reach groundwater at densities exceeding those prescribed in Title 22, section 64426.1. However, there are no municipal groundwater wells within 500 feet of the Discharge Area and given the soil types, it is not likely that pathogen-indicator bacteria will transport any appreciable distance from the Designated Disposal Area and it is not expected that the discharge will degrade any beneficial use of the groundwater in the vicinity of the Facility. Consequently, no groundwater degradation is anticipated.

48. Notwithstanding implementation of BPTC, a degree of groundwater quality degradation will occur as a result of the Facility's operation—specifically in terms of nitrate/nitrite and TDS (and possibly total coliform). However, such degradation nevertheless is consistent with the maximum benefit to the people of the state of California. The Discharger provides a valuable service to the community that is protective of human health and the environment and contributes to the economic development of the area. The economic prosperity of surrounding communities and associated industries is of maximum benefit to the people of the state and provides sufficient justification for allowing the limited groundwater degradation that may occur under this Order.

49. Based on the foregoing considerations, the wastewater discharges authorized under this Order are consistent with the Antidegradation Policy.

Stormwater

50. On July 1, 2015, the State Water Board adopted Water Quality Order 2014-0057-DWQ (National Pollutant Discharge Elimination System Permit No. CAS000001), *General Permit for Storm Water Discharges Associated with Industrial Activities* (Industrial General Permit). Facilities used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage with a design flow of one million gallons per day or more, or that are required to have an approved pretreatment program under 40 Code of Federal Regulations part 403, must enroll under the Industrial General Permit, unless there is no discharge of

industrial stormwater to waters of the United States (WOTUS).[10] The Facility treats domestic sewage and sewage sludge, however, the design flow of the facility is less than one million gallons per day. Therefore, the discharge is not subject to the federal CWA's stormwater program requirements.

51. This Order does not authorize discharges of stormwater to the WOTUS.

Additional Water Quality Considerations

52. This Order, which prescribes WDRs in accordance with the Basin Plan, for wastewater that does not need to be managed as "hazardous waste," is exempt from the prescriptive requirements of California Code of Regulations, title 27 (Title 27), section 20005 et seq. (Cal. Code Regs., tit. 27, § 20090.)

53. Water Code section 106.3, subdivision (a) provides that it is "the established policy of the state that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes." Although subdivision (a) does not apply directly to the prescribing of WDRs (see Wat. Code, § 106.3, subd. (b)), this Order nevertheless furthers the stated policy by requiring that the receiving groundwater comply with WQOs protective of MUN beneficial uses.

54. Water Code section 13149.2, subdivision (d) requires that the Colorado River Basin Water Board, "[w]hen issuing…individual waste discharge requirements…that regulate activity or a facility that may impact a

[10] USEPA regulations for stormwater discharges were promulgated on November 16, 1990 (40 C.F.R. parts 122, 123, and 124) to implement the Clean Water Act's stormwater program set forth in Clean Water Act section 402(p) (33 U.S.C. §1342(p)). In relevant part, the regulations require specific categories of facilities that discharge stormwater associated with industrial activity to WOTUS to obtain National Pollutant Discharge Elimination System (NPDES) permits and to require control of such pollutant discharges using Best Available Technology Economically Achievable (BAT) and Best Conventional Pollutant Control Technology (BCT) to prevent and reduce pollutants and any more stringent controls necessary to meet water quality standards.

disadvantaged[11] or tribal community,[12] and that includes a time schedule in accordance with subdivision (c) of Section 13263 for achieving an applicable water quality objective, an alternative compliance path that allows time to come into compliance with water quality objectives, or a water quality variance…," must include finding(s) regarding "potential environmental justice,[13] tribal impact, and racial equity considerations" that are relevant to the permitting action. This Order does not incorporate a time schedule for compliance with appliable WQOs, or any of the other provisions described in Water Code section 13149.2, subdivision (d). Accordingly, no additional findings are necessary under section 13149.2.

California Environmental Quality Act

55. The adoption of this Order is categorically exempt from the procedural requirements of the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.), as the Facility is "an existing facility" with negligible or no expansions in use. (See Cal. Code Regs., tit. 14, 15301.)

Monitoring and Reporting Requirements

56. This Order is also issued pursuant to Water Code section 13267, subdivision (b)(1), which provides that the Colorado River Basin Water Board may require that persons discharging waste within the region "shall furnish, under penalty of perjury, technical or monitoring program reports…," provided that the discharger's burdens of compliance, including costs, is reasonable relative to the need for the submittals and the benefits to be obtained.

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[11] For the purposes of this requirement, a "disadvantaged community" is defined as a "community in which the median household income is less than 80 percent of the statewide annual median household income level." (Wat. Code, § 13149.2, subd. (f)(1).)

[12] For the purposes of this requirement, a "tribal community" is defined as a "community within a federally recognized California Native American tribe or nonfederally recognized Native American tribe on the contact list maintained by the Native American Heritage Commission for the purposes of Chapter 905 of the Statutes of 2004." (Wat. Code, § 13149.2, subd. (f)(2).)

[13] Water Code section 13149.2 incorporates the general definition of "environmental justice" in Public Resources Code section 30107.3, subdivision (a): "the fair treatment and meaningful involvement of people of all races, cultures, incomes, and national origins, with respect to the development, adoption, implementation, and enforcement of environmental laws, regulations, and policies." (Wat. Code, § 13149.2, subd. (f).)

57. The various notifications, technical reports and monitoring program reports required under this Order, including those contained within the Monitoring and Reporting Program (MRP) in **Attachment A**, are necessary to ensure compliance with the WDRs.

58. In accordance with section 13267, the burdens of monitoring and reporting imposed on the Discharger under this Order and the separately adopted MRP, are reasonable relative to the need for compliance described above.

59. The Executive Officer may issue a Revised MRP as a standalone order, pursuant to her delegated authority under Water Code section 13223 and Colorado River Basin Water Board Resolution R7-2022-0036. Upon issuance, the Revised MRP shall supersede the provisions of **Attachment A**.

Scope of Order

60. This Order, which prescribes WDRs for the discharge of nonhazardous wastewater to land in accordance with the Basin Plan, is exempt from the prescriptive standards for solid waste disposal set forth in California Code of Regulations, title 27 (Title 27), section 20005 et seq. (Title 27, § 20090, subd. (b).)

61. Nothing in this Order shall be construed as preempting or superseding otherwise applicable regulatory requirements issued by local, state, or federal agencies.

Public Participation

62. In developing these WDRs, Colorado River Basin Water Board staff have complied with Water Code section 189.7, subdivision (a)(1), which requires "equitable, culturally relevant community outreach to promote meaningful civil engagement from potentially impacted communities of proposed discharges of waste that may have disproportionate impacts on water quality in disadvantaged communities or tribal communities…."

63. The Dischargers and other interested public agencies and persons were notified of the Board's intent to prescribe the WDRs in this Order, and provided an opportunity to submit their written views and recommendations at a public hearing. (Wat. Code, § 13167.5.)

64. The Colorado River Basin Water Board, in a public meeting, heard and considered all timely comments pertaining to this discharge.

REQUIREMENTS

IT IS HEREBY ORDERED, pursuant to Water Code sections 13263 and 13267, that Order R7-2018-0013 is rescinded (except for enforcement purposes), and that the Discharger shall comply with the following requirements.

A. Prohibitions

1. Waste classified as “hazardous,” as defined in Title 27, section 20164, or constituting “designated waste,” as defined in Water Code section 13173, shall not be discharged at the Facility.

2. The storage, treatment, or disposal of waste at the Facility shall not cause conditions constituting a “contamination,” “pollution,” or “nuisance,” as defined per subdivisions (k), (l), and (m) of Water Code section 13050.

3. Wastewater shall not be permitted to bypass the aeration/ percolation ponds relied upon for compliance with this Order, or otherwise be permitted to overflow from its designated containment structures.

4. Waste shall not be discharged at a location other than the Designated Disposal Area specified in Finding 10, or in a manner other than as described in the findings generally.

5. Wastewater shall not be discharged from the Facility into surface waters or surface drainage courses.

6. The discharge of wastewater to land not controlled by the Discharger, or not authorized for such use, is prohibited.

7. Objectionable odors, originating from the Facility and associated with the generation, treatment, storage, or disposal of waste, shall not be perceivable beyond the boundaries of the Facility or areas not owned/controlled by the Discharger.

8. The Discharger shall not accept waste in excess of the treatment capacity of the disposal system.

9. Surfacing or ponding of wastewater outside of the designated disposal locations is prohibited.

B. Discharge Specifications

1. Wastewater shall be discharged to the Designated Disposal Area, as described in Finding 10.

2. All Facility systems and equipment shall be operated to optimize the quality of the effluent.

3. All conveyance, treatment, storage, and disposal systems shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods with a 100-year return frequency.

4. Public contact with wastewater at the Facility shall be prevented through such means as fences, signs, or acceptable alternatives.

5. The Discharger shall design, construct, operate, and maintain all Facility impoundments sufficiently to protect the integrity of containment dams and berms and prevent overtopping and/or structural failure. The operating freeboard in any impoundments shall never be less than two feet (measured vertically from the lowest possible point of overflow).

6. Wastewater treatment, storage, and disposal ponds or structures shall have sufficient capacity to accommodate allowable wastewater flow, design seasonal precipitation, and ancillary inflow and infiltration during the winter while ensuring compliance with all requirements of this Order. Design seasonal precipitation shall be based on total annual precipitation using a return period of 100 years, distributed monthly in accordance with historical rainfall patterns.

7. On or about 1 October of each year, available capacity shall at least equal the volume necessary to comply with Sections B.5 and B.6.

8. All ponds and open containment structures shall be managed to prevent breeding of mosquitoes. Specifically:

    a. An erosion control program shall be implemented to ensure that small coves and irregularities are not created around the perimeter of the water surface.

    b. Weeds shall be minimized through control of water depth, harvesting, or herbicides.

    c. Dead algae, vegetation, and debris shall not accumulate on the water surface.

d. The Discharger shall consult and coordinate with the local Mosquito Abatement District to minimize the potential for mosquito breeding as needed to supplement the above measures.

9. Newly constructed or rehabilitated berms or levees (excluding internal berms that separate ponds or control the flow of water within a pond) shall be designed and constructed under the supervision of a California Registered Civil Engineer.

10. Wastewater within any unlined impoundment (including the Designated Disposal Area) shall not have a pH less than 6.0 or greater than 9.0.

11. Beginning in 2024, the Discharger shall monitor sludge accumulation in each Facility impoundment at least every five years, and periodically remove sludge as necessary to maintain adequate storage capacity. Specifically, if the estimated volume of sludge in the reservoir exceeds five percent of the permitted reservoir capacity, the Discharger shall complete sludge cleanout within 12 months after the date of the estimate.

12. The aeration/percolation ponds shall be maintained so that they continuously operate in aerobic conditions. The dissolved oxygen content in the upper zone (one foot) of the aeration/percolation ponds shall be equal to or greater than 1.0 mg/L. If there is little or no water in the ponds, the monitoring report shall state “No standing water in ponds and/or not sufficient water in the ponds to sample safely” in place of reporting dissolved oxygen concentration.

C. Effluent Limitations

The Facility’s wastewater (effluent), following treatment, shall comply with the Effluent Limitations below in Table 4.

Table 4. Effluent Limitations.

Parameter	Units	Limitation	Determination
Average Daily Flow	MGD	0.225	30-Day Average Dry-Weather Flow
pH	Std. Units	≥ 6.00 ≤ 9.00	--

Parameter	Units	Limitation	Determination
BOD5	mg/L	65 45	7-Day Average 30-Day Average

D. Groundwater Limitations

Discharge of wastewater from the Facility shall not cause groundwater to:

1. Exceed applicable WQOs;

2. Acquire taste, odor, toxicity, or color that create nuisance conditions;

3. Impair beneficial uses; or

4. Contain constituents or organisms in excess of applicable Title 22 MCLs (see, e.g., Title 22, § 64426.1 [bacteriological constituents], § 64431 [inorganics], § 64444 [organics], § 64678 [lead, copper]).

E. Solids Disposal Requirements[14]

1. Sludge and Solid Waste shall be removed from screens, sumps, and ponds as needed to ensure optimal plant operation.

2. Residual sludge, biosolids, and solid waste shall be permanently disposed offsite at a landfill permitted under Title 27, section 20000 et seq.

[14] For the purposes of this section: “sludge” means the solid, semisolid, and liquid residues removed during primary, secondary, or advanced wastewater treatment processes; “solid waste” includes grit and screenings generated during preliminary treatment at the Facility; “residual sludge” means sludge that will not be subject to further treatment at the Facility; and “biosolids” refers to sludge that has been treated and tested and shown to be capable of being beneficially used as a soil amendment for agriculture, silviculture, horticulture, and land reclamation activities pursuant to federal and state regulations.

F. Monitoring, Reporting and Notification Requirements

1. **Compliance with Monitoring and Reporting Program.** The Discharger shall comply with the Monitoring and Reporting Program (MRP) in Attachment A, or in the event of a subsequently issued Revised MRP, the provisions of that Revised MRP, which shall supersede the provisions of Attachment A as the operative MRP.

2. **Noncompliance Notifications.** Discharger shall report any noncompliance that may endanger human health or the environment. Information shall be provided orally to the Colorado River Basin Water Board office and the Office of Emergency Services (OES) within 24 hours of when the Discharger becomes aware of the incident. If noncompliance occurs outside of business hours, the Discharger shall leave a message on the Colorado River Basin Water Board's office voicemail.

   A written report shall also be provided within five business days of the time the Discharger becomes aware of the incident. The written report shall contain a description of the noncompliance and its cause, the period of noncompliance, the anticipated time to achieve full compliance, and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. A final certified report must be submitted through GeoTracker. Additional information may be added to the certified report, in the form of an attachment, at any time.

   All other forms of noncompliance shall be reported in the next scheduled Self-Monitoring Report (SMR), or earlier if requested by the Executive Officer.

3. **General Monitoring Requirements.**

   a. **Testing and Analytical Methods.** The collection, preservation, and holding times of all samples shall be performed in accordance with USEPA-approved procedures. Except as otherwise specified in the MRP or as approved in writing by the Executive Officer, all analyses shall be conducted in accordance with the latest editions of either of the USEPA's *Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act* (40 C.F.R. part 136); or *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods Compendium* (SW-846).

   b. **Laboratory Certification.** Except as otherwise approved in writing by the Executive Officer, all analyses shall be conducted by a

laboratory certified by the State Water Resources Control Board, Division of Drinking Water's Environmental Laboratory Accreditation Program (ELAP).

c. **Representative Sampling.** All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each grab sample shall be recorded on the chain of custody form for the sample. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved in writing by Colorado River Basin Water Board staff.

d. **Instrumentation and Calibration.** All monitoring instruments and devices used by the Discharger shall be properly maintained and calibrated to ensure their continued accuracy. Any flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices. In the event that continuous monitoring equipment is out of service for a period greater than 24 hours, the Discharger shall obtain representative grab samples each day the equipment is out of service. The Discharger shall correct the cause(s) of failure of the continuous monitoring equipment as soon as practicable. The Discharger shall report the period(s) during which the equipment was out of service and if the problem has not been corrected, shall identify the steps which the Discharger is taking or proposes to take to bring the equipment back into service and the schedule for these actions.

e. **Field Test Instruments.** Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided:

   i. The user is trained in proper use and maintenance of the instruments;

   ii. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;

   iii. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and

   iv. Field calibration reports are submitted.

4. **General Reporting Requirements.** The Discharger shall comply with the following General Reporting Requirements:

   a. **Electronic Submittal.** All materials shall be submitted electronically via the GeoTracker Database (https://geotracker.waterboards.ca.gov).[15] After uploading, Dischargers shall notify Colorado River Basin Water Board staff via email to RB7_WDRs_paperless@waterboards.ca.gov, or another address specified by staff. The following information shall be included in the body of the email:

Attention:	Land Disposal Unit
Report Title:	[Report Title]
Upload ID:	[Number]
Facility:	Thomas R. Cannell Wastewater Treatment Facility
County:	Imperial County
GeoTracker ID:	WDR100035569

   b. **Qualified Professionals.** All technical reports[16] submitted under this Order shall be prepared by, or under the direct supervision of, a competent licensed civil engineer or engineering geologist (Qualified Professional). The submittal shall be signed and stamped by the Qualified Professional, and contain a brief summary of the Qualified Professional's qualifications.

   c. **Data Presentation and Formatting.** In reporting monitoring data, the Discharger shall arrange data in tabular form so that the date, the constituents, the concentrations, and the units are readily discernible. Additionally, data shall be summarized in a manner that clearly illustrates compliance/noncompliance.

   d. **Non-Detections / Reporting Limits.** Unless reporting limits (RL) are specified in the same table, non-detections and sub-RL concentrations shall be reported as "< [limit]" (e.g., "< 5 µg/L").

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[15] Large files must be split into appropriately labelled, manageable file sizes and uploaded into GeoTracker.

[16] A "technical report" is a one incorporating the application of scientific or engineering principles.

e. **Units.** Absent specific justification, all monitoring data shall be reported in the units specified herein.

f. **Certification.** All submittals under this Order shall be accompanied by a transmittal containing the following certification that is signed by either the Required Signatory or their Authorized Representative:

> I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

i. The Required Signatory shall be the individual identified in Table 5 below.

ii. To act as an Authorized Representative for a Required Signatory (Table 5), an individual must be identified[17] and duly authorized in writing by the Required Signatory; this written authorization shall be provided to the Board beforehand, or concurrently with the first submittal signed by the Authorized Representative.

[17] This identification may be in reference to the Authorized Representative's title or position, provided it is one that customarily has the responsibility of supervising the Facility's overall operation (e.g., facility manager, superintendent).

Table 5. Required Signatories for Submittals.

Category of Discharger	Required Signatory
Corporations	Senior Vice President or Equivalent Principal Executive
Limited Liability Companies (LLCs)	Manager
General Partnerships and Limited Partnerships (LPs)	General Partner
Sole Proprietorships	Sole Proprietor
Public Agencies	Principal Executive or Ranking Elected/Appointed Official

G. Special Provisions

1. Groundwater Monitoring Network

a. **Existing Groundwater Monitoring Network Study.** Within 12 months of the adoption of this Order, the Discharger shall submit, for Executive Officer approval, a technical work plan to determine the adequacy of the existing groundwater monitoring network.

The technical work plan shall describe the current condition of the groundwater monitoring network (e.g., monitoring locations, sampling protocol, or quality assurance/quality control), establish total depth and screened intervals for each of the monitoring wells, and establish groundwater elevation in the mound in the area of the evaporation/percolation ponds.

If the technical work plan indicates that repair or addition of monitoring wells is necessary, the Discharger shall submit a time schedule for Executive Officer approval that includes a description of proposed changes to the groundwater monitoring network and a time schedule for the implementation of these changes. Within six

months of Executive Officer written approval,[18] the Discharger shall begin implementation of the work plan in accordance with the time schedule.

b. **Groundwater Quality Monitoring Network Work Plan.** Within 12 months of determining the adequacy of the existing groundwater monitoring network (completion and approval of Special Provision G.1.a), the Discharger shall submit, for Executive Officer approval, a technical work plan and proposed time schedule[19] for installing a groundwater monitoring network with the ability to show the direction of groundwater flow and identification of up-gradient and down-gradient monitoring wells and, monitor upgradient and downgradient water quality conditions.

The work plan shall include a description of the groundwater monitoring network (e.g., monitoring locations, sampling protocol, or quality assurance/quality control) and a time schedule for the implementation of the network. Within six months of Executive Officer written approval, the Discharger shall begin implementation of the work plan in accordance with the time schedule.

2. **Planting Non-Fruit Bearing Trees Work Plan.** Within 12 months of adoption of this Order, the Discharger shall submit a technical report that is a work plan for the location and types of trees and other plants proposed to be irrigated with undisinfected secondary recycled water for Colorado River Basin Water Board staff concurrence prior to implementation of the work plan.

3. **Total Nitrogen Effluent Limit Feasibility Study.** Within three years of adoption of this Order, the Discharger shall submit a technical report evaluating the feasibility of implementing nitrogen removal for compliance with a 10 mg/L effluent limit for total nitrogen, which may be incorporated in future WDRs.

4. **Request for extension.** If the Discharger is unable to comply with the Special Provisions within the applicable schedule, the Discharger may

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[18] The Executive Officer may approve the work plan and time schedule with any revisions that are determined to be warranted under the circumstances.

[19] The time schedule for proposed activities shall not exceed six months from Executive Officer approval of the time schedule.

request an extension subject to approval by the Executive Officer. The extension request must be in writing and submitted as soon as a delay is recognized and prior to the compliance date. The extension request should include justification for the delay.

H. Other Provisions

1. The Discharger shall comply with the Time Schedule in Table 6 below.

Table 6. Time Schedule.

Task	Deadline
1. Submit Work Plan and Time Schedule on the adequacy of the Existing Groundwater Monitoring Network	Within 12 Months of adoption of this Order
2. Begin Implementation of the Groundwater Monitoring Well Work Plan	Within six months of approval of the Work Plan by the Executive Officer
3. Submit Work Plan and Time Schedule to Install a Groundwater Monitoring and Reporting Program for upgradient and downgradient water quality monitoring wells	Within 12 Months of adoption of this Order
4.Begin Implementation of the Groundwater Monitoring Well Work Plan for upgradient and downgradient water quality monitoring wells	Within six months of approval of the Work Plan by the Executive Officer
5. Submit Planting Non-Fruit Bearing Trees Work Plan	Within 12 Months of adoption of this Order
6. Submit Total Nitrogen Effluent Limit Feasibility Study	Within 3 years of adoption of this Order

2. **Facility Inspection.** Dischargers and their agents shall permit Board staff to inspect the Enrolled Facility during business to verify compliance with WDRs. Failure to consent to a reasonable request for inspection constitutes a violation of this Order.

3. **Facility Operation and Maintenance.** The Discharger shall at all times properly operate and maintain all systems and components of collection, treatment, and control installed or used by the Discharger to achieve compliance with this Order. Proper operation and maintenance includes, but is not limited to, effective performance, adequate process controls, and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities/systems when necessary to achieve compliance with this Order. All systems in service or reserved shall be inspected and maintained on a regular basis. Records of inspections and maintenance shall be retained and made available to the Colorado River Basin Water Board on request.

4. **Duty to Mitigate.** The Discharger shall take all reasonable steps to minimize or prevent any discharge in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment.

5. **Disposal Capacity.** The Discharger shall provide a report to the Colorado River Basin Water Board when it determines that the Facility's average dry-weather flow rate for any month exceeds 80 percent of the design disposal capacity. The report shall indicate what steps, if any, the Discharger intends to take to provide for the expected wastewater disposal capacity necessary when the plant reaches design capacity.

6. **Material Changes.** Prior to any modifications which would result in any material change in the quality or quantity of wastewater treated or discharged, or any material change in the location of discharge, the Discharger shall report all pertinent information in writing to the Colorado River Basin Water Board, and if required by the Colorado River Basin Water Board, obtain revised requirements before any modifications are implemented.

7. **Operational Personnel.** The Facility shall be supervised and operated by persons possessing the necessary expertise in the operation and maintenance of the wastewater treatment system.

8. Physical copies of this Order, as well as of the operative Monitoring and Reporting Program, shall be maintained onsite at the Facility, and shall be identified to all operating personnel; the Discharger shall ensure that such personnel are familiarized with these materials.

9. The Discharger shall retain copies of all reports required by this Order and the associated MRP. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report, or application.

Records may be maintained electronically. This period may be extended in writing by the Executive Officer.

10. **Changes in Ownership.** Prior to any change in ownership of this operation, the Discharger shall notify the Executive Officer in writing at least 30 days in advance. The notice shall include a written transfer agreement between the existing owner and the new owner. At a minimum, the transfer agreement shall contain a specific date for transfer of responsibility for compliance with this Order, and an acknowledgment that the new owner or operator is liable for compliance with this Order from the date of transfer. The Board may require modification or revocation and reissuance of this Order to formally substitute the permitted parties, and to incorporate other requirements as appropriate.

LIST OF ATTACHMENTS

Attachment A—Monitoring and Reporting Program
Attachment B—Maps and Facility Diagrams

ENFORCEMENT

If, in the opinion of the Executive Officer, the Dischargers fail to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability, or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to $10,000 per violation, per day, depending on the violation, pursuant to the Water Code, including sections 13268, 13350 and 13385. The Colorado River Basin Water Board reserves its right to take any enforcement actions authorized by law.

ADMINISTRATIVE REVIEW

Any person aggrieved by this Colorado River Basin Water Board action may petition the State Water Board for review in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 et seq. To be timely, the petition must be received by the State Water Board by 5:00 pm on the 30th day after the date of this Order; if the 30th day falls on a Saturday, Sunday or state holiday, the petition must be received by the State Water Board by 5:00 pm on the next business day. The law and regulations applicable to filing petitions are available on the State Water Board website (http://www.waterboards.ca.gov/public_notices/petitions/water_quality). Copies will also be provided upon request.

ATTACHMENT A—MONITORING AND REPORTING PROGRAM

A. General Requirements

1. **Testing and Analytical Methods.** The collection, preservation, and holding times of all samples shall be in accordance with U.S. Environmental Protection Agency (USEPA)-approved procedures. All analyses shall be conducted in accordance with the latest edition of either the USEPA's Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act (40 C.F.R. part 136) or Test Methods for Evaluating Solid Waste: Physical/Chemical Methods Compendium (SW-846), unless otherwise specified in the MRP or approved by the Colorado River Basin Water Board's Executive Officer.

2. **Laboratory Certification.** All analyses shall be conducted by a laboratory certified by the State Water Resources Control Board (State Water Board), Division of Drinking Water's Environmental Laboratory Accreditation Program (ELAP), unless otherwise approved by the Colorado River Basin Water Board's Executive Officer.

3. **Reporting Levels.** All analytical data shall be reported with method detection limits (MDLs) and with either the reporting level or limits of quantitation (LOQs) according to 40 Code of Federal Regulations part 136, Appendix B. The laboratory reporting limit for all reported monitoring data shall be no greater than the practical quantitation limit (PQL).

4. **Sampling Location(s).** Samples shall be collected at the location(s) specified in the WDRs. If no location is specified, sampling shall be conducted at the most representative sampling point available.

5. **Representative Sampling.** All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each grab sample shall be recorded on the chain of custody form for the sample. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Colorado River Basin Water Board staff.

6. **Instrumentation and Calibration.** All monitoring instruments and devices used by the Discharger shall be properly maintained and calibrated to ensure their continued accuracy. Any flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices. In the event that continuous monitoring equipment is out of service for a period greater than 24 hours, the Discharger shall obtain

representative grab samples each day the equipment is out of service. The Discharger shall correct the cause(s) of failure of the continuous monitoring equipment as soon as practicable. The Discharger shall report the period(s) during which the equipment was out of service and if the problem has not been corrected, shall identify the steps which the Discharger is taking or proposes to take to bring the equipment back into service and the schedule for these actions.

7. **Field Test Instruments.** Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that:

   a. The user is trained in proper use and maintenance of the instruments;

   b. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;

   c. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and

   d. Field calibration reports are submitted.

8. **Records Retention.** The Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, for a minimum of five (5) years from the date of the sampling or measurement. This period may be extended by request of the Colorado River Basin Water Board's Executive Officer at any time. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurement(s);

   b. The individual(s) who performed the sampling or measurement(s);

   c. The date(s) analyses were performed;

   d. The individual(s) who performed the analyses;

   e. The analytical techniques or method used; and

   f. All sampling and analytical results, including:

i. units of measurement used;

ii. minimum reporting limit for the analyses;

iii. results less than the reporting limit but above the method detection limit (MDL);

iv. data qualifiers and a description of the qualifiers;

v. quality control test results (and a written copy of the laboratory quality assurance plan);

vi. dilution factors, if used; and

vii. sample matrix type.

9. **Inoperative Facility.** If the Facility is not in operation, or there is no discharge during a required reporting period, the Discharger shall forward a letter to the Colorado River Basin Water Board indicating that there has been no activity during the required reporting period.

B. Monitoring Requirements

1. Wastewater that is discharged to the Designated Disposal Area (Influent) shall be monitored in accordance with MRP Table 1 below.

MRP Table 1. Influent Monitoring Schedule.

Constituent	Units	Sample	Monitoring Frequency	Reporting Frequency
Flow	MGD	Measurement	Daily	Quarterly
BOD5	mg/L	Grab	Monthly	Quarterly
TSS	mg/L	Grab	Monthly	Quarterly

2. Wastewater stored within the Designated Disposal Area (Effluent) shall be monitored in accordance with MRP Table 2 below. Samples shall be collected from opposite the inlet at a depth of one foot and from each pond in use. If there is little or no water in the evaporation/percolation ponds,

the monitoring report shall state: “No standing water in ponds” in place of reporting pH and dissolved oxygen concentration.

MRP Table 2. Effluent (Pond) Monitoring Schedule.

Constituent	Units	Type	Monitoring Frequency	Reporting Frequency
Freeboard	0.1 feet	Measurement	Monthly	Quarterly
pH	Std. Units	Grab	Weekly	Quarterly
Dissolved Oxygen	mg/L	Grab	Weekly	Quarterly
BOD5	mg/L	Grab	Monthly	Quarterly
TSS	mg/L	Grab	Monthly	Quarterly
TDS	mg/L	Grab	Monthly	Quarterly
Nitrate as N	mg/L	Grab	Quarterly	Quarterly
Nitrite as N	mg/L	Grab	Quarterly	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly	Quarterly
Ammonia as N	mg/L	Grab	Quarterly	Quarterly
VOCs (EPA 624)	µg/L	Grab	Annually	Annually
Volume of wastewater used for landscape irrigation	MGD	Flow Measurement	Daily	Quarterly

3. The domestic water supply shall be monitored in accordance with MRP Table 3 below. Samples shall be collected at a location or in a manner that

is representative of actual TDS concentrations of domestic water distributed to the community.

MRP Table 3. Source Water Monitoring Schedule.

Constituent	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
TDS	mg/L	Grab	Monthly	Quarterly

4. Upon determining the adequacy of the existing groundwater monitoring network, the Discharger shall conduct groundwater monitoring of the designated well(s)[20] in accordance with MRP Table 4 below.

MRP Table 4. Groundwater Elevation Monitoring Schedule.

Parameter	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Depth to Groundwater	ft	Measurement	Quarterly	Quarterly

5. Upon approval, the groundwater quality monitoring wells shall be monitored in accordance with MRP Table 5 below.

[20] The Discharger may utilize a separate monitoring well to monitor groundwater elevations.

MRP Table 5. Groundwater Quality Monitoring Schedule.

Parameter	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Depth to Groundwater	ft	Measurement	Quarterly	Quarterly
Groundwater Elevation	ft	Calculated	Quarterly	Quarterly
Flow Gradient	feet/foot	Calculated	Quarterly	Quarterly
Flow Direction	Degrees	Calculated	Quarterly	Quarterly
TDS	mg/L	Grab	Quarterly	Quarterly
Nitrate as N	mg/L	Grab	Quarterly	Quarterly
Nitrite as N	mg/L	Grab	Quarterly	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly	Quarterly
Sulfate	mg/L	Grab	Quarterly	Quarterly
Chloride	mg/L	Grab	Quarterly	Quarterly
Fluoride	mg/L	Grab	Quarterly	Quarterly
VOCs	µg/L	Grab	Quarterly	Quarterly
Total Coliform	MPN/100mL	Grab	Quarterly	Quarterly
E. Coli	MPN/100mL	Grab	Quarterly	Quarterly

6. Prior to offsite disposal, sludge generated at the Facility shall be sampled and analyzed in accordance with MRP Table 6.

MRP Table 6. Sludge Monitoring Schedule.

Constituent	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Arsenic	mg/kg	Composite	Annually	Annually
Cadmium	mg/kg	Composite	Annually	Annually
Copper	mg/kg	Composite	Annually	Annually
Chromium	mg/kg	Composite	Annually	Annually
Lead	mg/kg	Composite	Annually	Annually
Mercury	mg/kg	Composite	Annually	Annually
Molybdenum	mg/kg	Composite	Annually	Annually
Nickel	mg/kg	Composite	Annually	Annually
Selenium	mg/kg	Composite	Annually	Annually
Zinc	mg/kg	Composite	Annually	Annually
Fecal Coliform	MPN/gram	Composite	Annually	Annually

C. Reporting Requirements

1. **Quarterly Reporting.** Daily, weekly, monthly, and quarterly monitoring shall be included in the Quarterly Self-Monitoring Reports (SMRs). Quarterly SMRs shall be submitted by **January 31st, April 30th, July 31st, and October 31st**. Each report shall include, at a minimum, the following:

    a. **Cover Letter.** A transmittal letter summarizing the essential points in the report.

    b. **Maps.** Maps depicting the Facility layout and the location of sampling points.

c. **Tabulated Monitoring Data.** Tables of the data collected. Each row shall be a monitoring event and each column shall be a separate parameter at a single location (or a single average, as appropriate).

d. **Compliance Summary.** Identification of any violations found since the last report was submitted, and actions taken or planned for correcting each violation. If the Discharger previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. If no violations have occurred since the last submittal, this shall be stated.

2. **Annual Reporting**. In addition to the above requirements, the 4th Quarter SMR (due January 31) shall contain the following:

a. **Tabulated Summary of All Previous Monitoring Data.** Tables of the data collected. The tables shall include all of the data collected to-date at each monitoring point, organized in chronological order, with the oldest data in the top row and progressively newer data in rows below the top row. Each row shall be a monitoring event and each column shall be a separate parameter at a single location (or a single average, as appropriate).

b. **Graphical Display.** Graphs depicting monitoring parameters through time, with the concentrations being the y-axis and time being the x-axis. Logarithmic scales can be used for values that vary by orders of magnitude. Individual graphs can combine multiple locations or multiple chemicals if that allows the data to be compared more easily.

c. **Pretreatment Report.** Information concerning significant industrial wastewater discharged to the treatment facility, and an affirmative statement concerning whether there is a need to establish an industrial pretreatment program.

d. **Operation and Maintenance Summary.** Information concerning operation and maintenance of the facility, including documentation showing the calibration of flow meters and equipment, modifications to the Operation and Maintenance Manual, and any modifications or updates to the Discharger's wastewater rules and/or regulations.

e. **Compliance Summary.** Identification of any violations found since the last report was submitted, and actions taken or planned for correcting each violation. If the Discharger previously submitted a report

describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. If no violations have occurred since the last submittal, this shall be stated.

f. **Summary of Sludge Disposal Activities.** The quantity, location and method of disposal of all sludge and similar solid materials being produced at the Facility. If no sludge is disposed of during the subject year, the Discharger shall indicate “No Sludge Removed.”

3. Supplemental Monitoring. The results of any analyses or monitoring activities conducted in addition to those specified herein, or conducted on more frequent basis than otherwise required herein, shall be reported to the Colorado River Basin Water Board in the next regularly submitted SMR.

ATTACHMENT B—MAPS AND FACILITY DIAGRAMS

Figure 1. Map with Facility Location

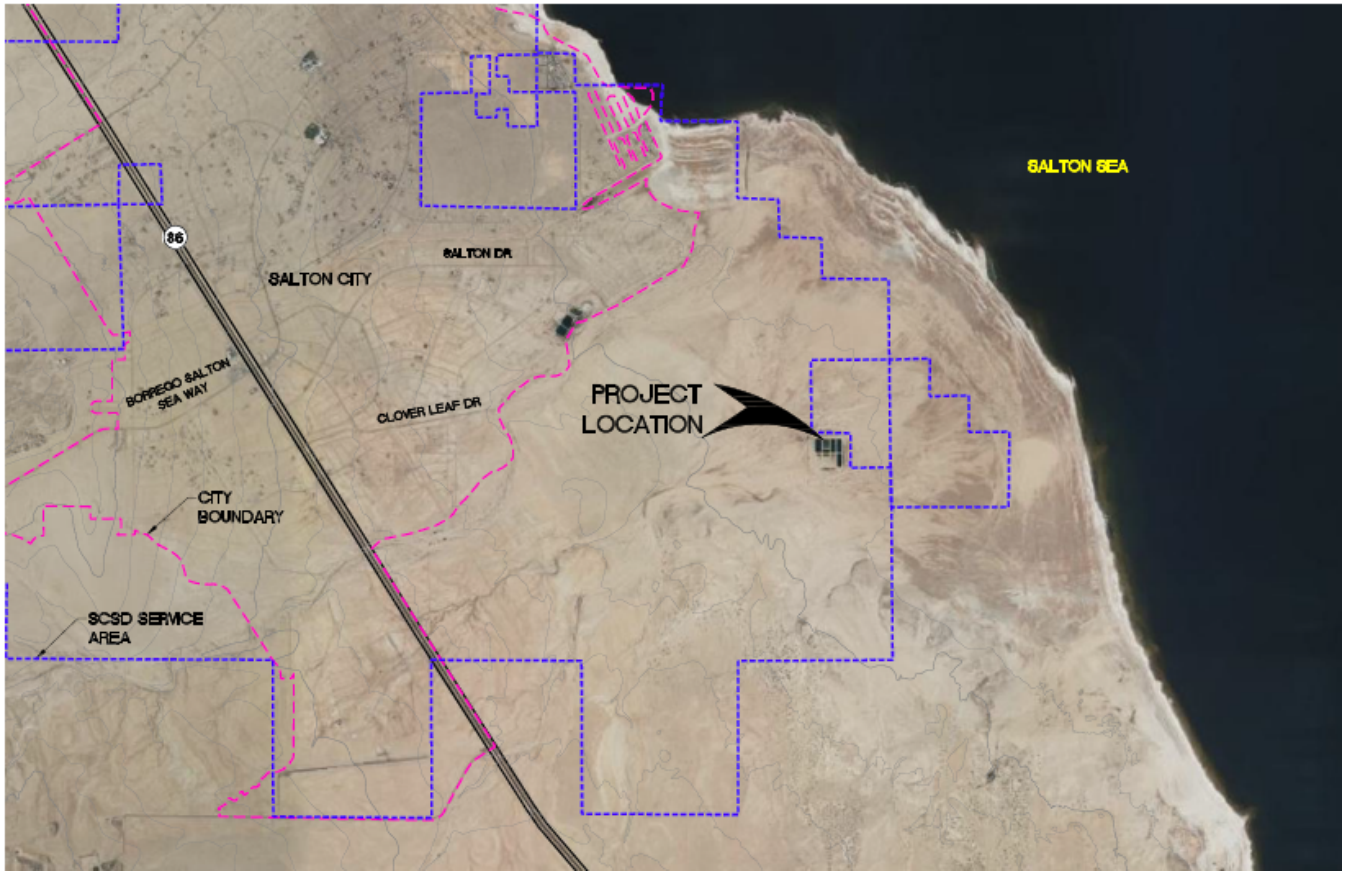

Figure 2. Site Plan