

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

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**MONITORING AND REPORTING PROGRAM NO. CI-10771
FOR
METABOLIC STUDIO WATER TREATMENT PLANT
(FILE NO. 17-082)
ISSUED TO
METABOLIC STUDIO, LLC**

This Monitoring and Reporting Program (MRP) No. CI-10771 is issued pursuant to California Water Code section 13267, which authorizes the California Regional Water Quality Control Board, Los Angeles Region (Los Angeles Water Board) to require Metabolic Studio, LLC (Discharger), who discharges filtered and disinfected river water generated from the Metabolic Studio Water Treatment Plant (Metabolic Studio WTP) to groundwater via landscape irrigation, to furnish technical or monitoring reports.

The reports required herein are necessary to assess treatment plant performance and identify operational problems for determining Discharger’s compliance with Waste Discharge Requirements (WDRs) and Water Reclamation Requirements (WRRs) Order No. R4-2024-0389 to ensure protection of the waters of the state and their beneficial uses. The evidence that supports the need for the reports is set forth in the WDRs and WRRs and the Los Angeles Water Board records.

I. SUBMITTAL OF REPORTS

- A. The Discharger shall submit the following reports to the State Water Resources Control Board’s (State Water Board) GeoTracker database under Global ID WDR100039730 by the following due dates.
 - 1. **Quarterly Self-Monitoring Reports (SMRs)** shall be received by the Los Angeles Water Board by the 30th day of the month following the end of each quarterly monitoring period, according to Table 1. The Los Angeles Water Board must receive the first Quarterly SMR under this program by **January 30, 2025**.

Table 1. Quarterly SMR Reporting Period and Due Date

SMR	Reporting Period	Report Due Date
1 st Quarter	January 1 – March 31	April 30
2 nd Quarter	April 1 – June 30	July 30
3 rd Quarter	July 1 – September 30	October 30
4 th Quarter	October 1 – December 31	January 30

2. **Annual Summary Report** shall be received by the Los Angeles Water Board by March 1 of each year. The first Annual Summary Report under this program must be received by the Los Angeles Water Board no later than **March 1, 2025**.
- B. If there is no discharge during any reporting period, the report shall still be submitted and so state.
- C. The Discharger shall comply with the Electronic Submittal of Information (ESI) requirements by submitting all reports required under the MRP, including electronic data format (EDF) groundwater monitoring data, discharge location data, and SMRs in Portable Document Format (pdf) to the State Water Board GeoTracker database under Global ID WDR100039730.

II. MONITORING REQUIREMENTS

- A. Monitoring shall be performed to determine compliance with the requirements of this Order and shall include, but is not limited to, implementation and documentation of the following.
 1. The Discharger must include a map that clearly identifies the locations of the Metabolic Studio WTP and all landscape irrigation areas.
 2. Sampling protocols (specified in 40 Code of Federal Regulations [CFR] Part 136 or American Water Works Association standards where appropriate) and chain of custody procedures.
 3. For water quality monitoring, outline the methods and procedures to be used; collecting samples; decontaminating equipment; containing, preserving, and shipping samples; and maintaining appropriate documentation. Also include the procedures for handling, storing, testing, and disposing of decontamination waters generated from the sampling events.
 4. Laboratory or laboratories which conducted the analyses. Include copy or copies of laboratory certifications by the Environmental Laboratory Accreditation Program (ELAP) of the State Water Board Division of Drinking Water (DDW) every year or when the Discharger changes their contract laboratory.
 5. Analytical test methods used and the corresponding Detection Limits for Purposes of Reporting (DLR) for unregulated and regulated chemicals. Please see the DDW's website at [Drinking Water Program | California State Water Resources Control Board](#).
 6. Quality assurance and control measures.

- B. The samples shall be analyzed using analytical methods described in 40 CFR Part 136. Where no methods are specified for a given pollutant by commercially available methods approved by the Los Angeles Water Board and/or State Water Board, the Discharger shall select the analytical methods that provide DLRs lower than the limits prescribed in this Order.
- C. The Discharger shall instruct its laboratories to establish calibration standards so that the DLRs (or its equivalent if there is a different treatment of samples relative to calibration standards) are the lowest. At no time shall the Discharger use analytical data derived from extrapolation beyond the lowest point of the calibration curve.
- D. Upon request by the Discharger, the Los Angeles Water Board, in consultation with the State Water Board Quality Assurance Program, may establish DLRs in any of the following situations.
 - 1. When the pollutant has no established method under 40 CFR Part 136 (revised May 14, 1999, or subsequent revision);
 - 2. When the method under 40 CFR Part 136 for the pollutant has a DLR higher than the limit specified in this Order; or
 - 3. When the Discharger agrees to use a test method that is more sensitive than those specified in 40 CFR Part 136 and is commercially available.
- E. Samples of influent and disinfected effluent must be analyzed within allowable holding time limits as specified in 40 CFR section 136.3. All quality assurance/quality control (QA/QC) analyses must be run on the same dates when samples were actually analyzed. The Discharger shall make available for inspection and/or submit the QA/QC documentation upon request by the Los Angeles Water Board. Proper chain of custody procedures must be followed, and a copy of that documentation shall be submitted with the quarterly SMR.
- F. The effluent monitoring results shall be included in the quarterly SMRs and annual summary reports.
- G. All effluent monitoring reports shall include, at minimum, the following.
 - 1. Effluent monitoring well identification number, date, and time of sampling; and
 - 2. Sampler identification, laboratory identification, and chain of custody;
- I. The Discharger shall include the start-up date of the Metabolic Studio WTP in the quarterly SMR when the disinfected tertiary-treated river water is discharged.

III. REPORTING REQUIREMENTS

The Discharger shall submit all reports to the Los Angeles Water Board by the dates indicated in Section I. All quarterly and annual SMRs shall clearly list all non-compliance with WDRs and WRRs, as well as all excursions of effluent limits. All quarterly and annual SMRs shall contain a separate section titled "Summary of Non-Compliance", which discusses the compliance records and corrective actions taken or planned that may be needed to bring the discharge into full compliance with WDRs and WRRs.

A. Quarterly SMRs

1. The SMRs shall include, at a minimum, the following information:
 - a. The volume of the effluent used for landscape irrigation areas;
 - b. The date and time of sampling and analyses on the influent and effluent;
 - c. All analytical results of samples collected during the monitoring period of the influent and effluent;
 - d. A summary and discussion of any violations that occurred during the reporting period, and all actions taken or planned to correct these violations.
 - e. Documentation of all QA/QC procedures that were followed during sampling and laboratory analyses;
 - f. Records of any operational problems, plant upset and equipment breakdowns or malfunctions, and any discharge(s) used for landscape irrigation;
 - g. Discussion of compliance, non-compliance, or violation of waste discharge requirements; and
 - h. All corrective and/or preventive action(s) taken or planned with a schedule of implementation, if any violation occurs.
2. For the purpose of reporting compliance with numerical limitations, analytical data shall be reported using the following reporting protocols.
 - a. Sample results greater than or equal to the DLR must be reported "as measured" by the laboratory (i.e., the measured chemical concentration in the sample);
 - b. Sample results less than the DLR, but greater than or equal to the laboratory's method detection limit (MDL), must be reported as

“Detected, but Not Quantified,” or DNQ. The laboratory must write the estimated chemical concentration of the sample next to DNQ as well as the words “Estimated Concentration” (may be shortened to Est. Conc.); or

- c. Sample results less than the laboratory’s MDL must be reported as “None-Detected,” or ND.
3. If the Discharger samples and performs analyses (other than for process/operational control, startup, research, or equipment testing) on any sample more frequently than required in this MRP using approved analytical methods, the results of those analyses shall be included in the report. These results shall be included in the calculation of the average used in demonstrating compliance with average effluent limits, receiving groundwater limits, etc.
4. The Los Angeles Water Board may request supporting documentation, such as daily logs of operations.

B. Annual Summary SMRs

The Annual Summary Report shall include, at a minimum, the following information.

1. Tabular and graphical summaries of the monitoring data obtained during the previous calendar year.
2. Discussion of the compliance record and corrective and/or preventive action(s) taken or planned that may be needed to bring the treated effluent into full compliance with the requirements in this Order.
3. The total volume of treated river water discharged to the landscape irrigation areas;
4. Description of any changes and anticipated changes, including any impacts on the operation of any unit processes or facilities.
5. List of the analytical methods employed for each test and associated laboratory QA/QC procedures. The report shall restate the laboratories used by the Discharger to monitor compliance with the accompanying Order, their status of certification, and provide a summary of analyses.
6. Confirmation of the operator’s certification and a list of current operating personnel, their responsibilities, and their corresponding grade of certification.

7. Operation and maintenance report. The information to be contained in the report shall include, at a minimum, the following:
 - a. The name and address of the person or company responsible for the operation and maintenance of the facility;
 - b. Type of maintenance (preventive or corrective action performed);
 - c. Frequency of maintenance, if preventive; and
 - d. Maintenance record of percolation ponds and waste sludge drying beds, including the results of at least monthly observations in the areas for any overflow.
8. Summary of any change of the Operation, Maintenance, and Monitoring Plan (OMM Plan) due to the optimization of the Metabolic Studio WTP performance.

IV. WATER QUALITY MONITORING REQUIREMENTS

A. Influent Monitoring

1. Samples for influent biochemical oxygen demand (BOD) and total suspended solids analysis shall be obtained on the same day that the effluent BOD and total suspended solids samples are obtained in order to demonstrate percent removal. Similarly, sampling for other constituents in the influent shall also be coordinated with effluent sampling.
2. The Discharger shall monitor influent to the Metabolic Studio WTP at the influent feed pump station located in the mainstream of the influent channel as specified in Table 2 below.

Table 2. Influent Monitoring

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
BOD _{5@20°C}	mg/L	Grab	Quarterly
Total suspended solids	mg/L	Grab	Quarterly
Total dissolved solids	mg/L	Grab	Quarterly
Sulfate	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly
Boron	mg/L	Grab	Quarterly

Table notes: gpd: gallons per day; mg/L: milligrams per liter.

B. Effluent Monitoring

1. The Discharger shall monitor its discharge of tertiary-treated effluent downstream of all treated effluent passing through the effluent sampling station, including the final disinfection process.
2. Total coliform, fecal coliform, and enterococcus shall be sampled daily for the first month from the start-up date of the Metabolic Studio WTP, weekly for the second month through the sixth month, and then monthly thereafter.

When any of the bacteria constituents exceed the bacteria effluent limits, the Discharger shall sample the bacteria constituents weekly until the analytical results are at or below the effluent limits for 12 consecutive weeks.

3. For the constituents listed in Attachments A and C, the first sampling event shall be conducted within 6 months from the startup date and then every 5 years thereafter.
4. The following shall constitute the effluent monitoring program, specified in Table 3 below.

Table 3. Effluent Monitoring

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Total treated river water produced	gpd	Recorder	Daily
Total treated river water delivered to irrigation areas	gpd	Recorder	Daily
Ultraviolet (UV) intensity	mJ/cm ²	Recorder	Daily
UV transmittance	%	Recorder	Daily
Total coliform	MPN/100mL	Grab	Monthly
Fecal coliform	MPN/100mL	Grab	Monthly
Enterococcus	MPN/100mL	Grab	Monthly
Turbidity	NTU	Grab	Quarterly
pH	Standard units	Grab	Quarterly
BOD _{5@20°C}	mg/L	Grab	Quarterly
Total suspended solids	mg/L	Grab	Quarterly
Oil and grease	mg/L	Grab	Quarterly

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Ammonia as nitrogen	mg/L	Grab	Quarterly
Nitrite as nitrogen	mg/L	Grab	Quarterly
Nitrate as nitrogen	mg/L	Grab	Quarterly
Organic nitrogen	mg/L	Grab	Quarterly
Total nitrogen	mg/L	Calculated	Quarterly
Total dissolved solids	mg/L	Grab	Quarterly
Sulfate	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly
Boron	mg/L	Grab	Quarterly
Constituents listed in Attachment A-1 to A-4	various	Grab	Every 5 years
Remaining priority pollutants in Attachment C	µg/L	Grab	Every 5 years

Table notes:

- MPN/100mL: most probable number per 100 milliliters; NTU: Nephelometric Turbidity Unit; µg/L: micrograms per liter.
- Total nitrogen is the sum of ammonia as nitrogen, nitrite as nitrogen, nitrate as nitrogen, and organic nitrogen.

C. Groundwater Monitoring

Groundwater monitoring program is not required at this time. In the future, the Executive Officer may determine that a groundwater monitoring program is needed to fully evaluate the impact from your waste discharge in groundwater.

V. GENERAL MONITORING AND REPORTING REQUIREMENTS

- The Discharger shall comply with all Standard Provisions (Attachment B) related to monitoring, reporting, and recordkeeping.
- SMRs shall be signed by either the principal Executive Officer or ranking elected official.
- Each SMR shall contain the following completed declaration:

“I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the

person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.”

Executed on the ___ day of _____ at _____

_____ Signature

_____ Title”

- E. The Discharger shall retain records of all monitoring information, including all calibration and maintenance, monitoring instrumentation, and copies of all reports required by this Order, for a period of at least three (3) years from the date of sampling measurement, or report. This period may be extended by request of the Los Angeles Water Board at any time and shall be extended during the course of any unresolved administrative proceeding or judicial litigation regarding the regulated activity.

VI. WASTE HAULING REPORTING

In the event that waste sludge, septage, brine slurry or other wastes are hauled off offsite, the name and address of the hauler shall be reported, along with types and quantities hauled during the reporting period and the location of final point of disposal. In the event that no wastes are hauled off during the reporting period, a statement to that effect shall be submitted in the quarterly SMR.

VII. MONITORING FREQUENCIES

The Los Angeles Water Board Executive Officer is delegated authority to revise this Monitoring and Reporting Program, including monitoring frequencies and parameters. The Discharger may make a request for modifying the monitoring frequency or the list of monitoring parameters with justification. The Discharger shall not make any adjustment until the Executive Officer provides a written approval after determining that the request is adequately justified.

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by

Date: December 19, 2024

for Susana Arredondo
Executive Officer