CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

REVISED MONITORING AND REPORTING PROGRAM WQ 2016-0068-DDW-R5023
FOR
SACRAMENTO AREA SEWER DISTRICT
URBAN AND HARVEST WATER RECYCLED WATER PROGRAMS
SACRAMENTO COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring a recycled water system. This MRP is issued pursuant to Water Code section 13267. The Recycled Water System Administrator, Sacramento Area Sewer District (SacSewer or Discharger) shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer of the Central Valley Regional Water Quality Control Board (Central Valley Water Board).

The Discharger has applied for and received coverage for the Urban and Harvest Water Recycled Water Programs that are subject to the Notice of Applicability (NOA) of Water Quality Order 2016-0068-DDW (General Order). The monitoring and reporting described herein is necessary to ensure that the Discharger complies with the NOA and General Order. Pursuant to California Water Code section 13267, the Administrator shall implement this MRP and shall submit the monitoring reports described herein.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Regional Water Board staff.

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a California Environmental Laboratory Program (ELAP) certified laboratory or:

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

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

3. Instruments are serviced by the manufacturer or authorized representative at the recommended frequency; and

4. Field calibration reports are maintained and available for at least three years.

Monitoring requirements listed below may duplicate existing requirements under other orders including waste discharge requirements (WDRs) or waivers of WDRs that regulate agricultural discharges from irrigated lands. Duplication of sampling and monitoring activities are not required if the monitoring activity satisfies the requirements

of the General Order. Collecting composite samples is acceptable in most cases. The facility may continue using existing sampling collection equipment that is consistent with the applicable facility order. However, due to short sample holding times, bacteriological samples collected to verify disinfection effectiveness must be grab samples. In addition to submitting the results under another order, the results shall be submitted in the reports required by this General Order.

MONITORING REQUIREMENTS

A. RECYCLED WATER MONITORING

If recycled water is used for irrigation of landscape areas, priority pollutant monitoring is required at the production facility. Landscape areas are defined as parks; greenbelts; playgrounds; school yards; athletic fields; golf courses; cemeteries; residential landscaping; common areas; commercial landscaping (except eating areas); industrial landscaping (except eating areas); freeway, highway, and street landscaping:

Table 1. Recycled Water Monitoring for Priority Pollutants

Constituent	Treatment System Flow Rate	Sample Frequency	Reporting Frequency
Priority pollutants	≥ 1 MGD	Annual	Annual

B. DISINFECTION SYSTEM MONITORING

If disinfection is performed, samples shall be collected from downstream of the disinfection system and analyzed by an approved laboratory per Title 22, section 60321(a). For turbidity, sample shall be collected from downstream of the filtration system.

Table 2. Disinfection System Monitoring

Constituent / Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
Total Coliform Organisms	MPN/100 mL	Grab	1 / Day	Annually
Turbidity	NTU	Grab or meter	Continuous (See note 1 below)	Annually

Table 2 Notes:

1. If continuous turbidity meter fails to provide continuous monitoring for more than two hours, grab samples shall be collected and results of the daily average turbidity shall be reported.

C. POND SYSTEM

In some cases, recycled water storage ponds may be used to store recycled water when it is not needed. If the Administrator operates or permits a recycled water user that operates a recycled water storage pond, the pond(s) containing recycled water shall be monitored for the parameters listed in Table 3 below. These monitoring requirements apply only to ponds permitted through this General Order. Ponds covered by an existing order, such as an NPDES permit or Waste Discharge Requirements, shall continue to be monitored in accordance with that order.

Table 3. Pond System Monitoring

Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
Freeboard	0.1 feet	Measurement	Quarterly	Annually
Odors	---	Observation	Quarterly	Annually
Berm Condition	---	Observation	Quarterly	Annually

D. USE AREA MONITORING

The Administrator shall monitor use areas(s) at a frequency appropriate to determine compliance with this General Order and the Administrator's recycled water use program requirements. The Administrator may assign monitoring responsibilities to a User as part of the Water Recycling Use Permit program; the Administrator retains responsibility to ensure the data is collected, as well as prepare and submit the annual report.

The following shall be recorded for each use area with additional reporting for each user as appropriate. For monitoring and reporting purposes, use areas are designated into groups based on their locations as shown in Attachment A. The following use area groups are EchoWater Facility, Recycled Water Fill Station(s), Elk Grove Phase I, Elk Grove Phase II, Campbell Power Plant (formerly known as SPA Cogen Facility), City of Sacramento, and Harvest Water users. The frequency of use area inspections shall be based on the complexity and risk of each use area. Use areas may be aggregated to combine acreage for calculation or observation purposes. Use area monitoring shall include the following parameters:

Table 4. Use Area Monitoring

Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
Recycled Water User	--	--	--	Annually
Recycled Water Flow	gallons	meter	Monthly (see note 1 below)	Annually
Application Area Applied	acres (ac)	calculated	Quarterly (see note 2 below)	Annually
Application Rate	inches/ac/year (in/ac/yr)	calculated	Quarterly (see note 2 below)	Annually
Soil Saturation/ Ponding	--	observation	Quarterly (see notes 2, 3 below)	Annually
Nuisance Odors/ Presence of Vectors	--	observation	Quarterly (see notes 2, 3 below)	Annually
Discharge Off-site (of usage site area(s))	--	observation	Quarterly (see notes 2, 3 below)	Annually
Notification signage	--	observation	Quarterly (see notes 2, 3 below)	Annually

Table 4 Notes:

1. Total monthly flows for each use area will be reported annually. Flows to individual users will be reported as a total annual. Individual meters are not read on an exact monthly cycle (meters are read on a rotating schedule). If individual flow meter readings are unavailable, calculated flow values will be provided.
2. Not applicable to Recycled Water Fill Station residential users or commercial non-irrigation users.
3. Based on use areas selected for inspection by the administrator or authorized administrator during the reporting quarter.

E. COOLING/INDUSTRIAL/OTHER USES OF RECYCLED WATER

If recycled water is used for industrial, commercial cooling, or air conditioning in which a mist is generated, the cooling system shall comply with California Code of Regulations, title 22, section 60306 (c).

REPORTING REQUIREMENTS

In reporting monitoring data, the Administrator shall arrange the data in tabular form so that the date, data type (e.g., flow rate, bacteriological, etc.), and reported analytical or visual inspection results are readily discernible. The data shall be summarized to illustrate compliance with the General Order and NOA 2016-0068-DDW-R5023 as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next regularly scheduled monitoring report and shall be included in calculations as appropriate.

A. ANNUAL REPORT

Annual Reports shall be submitted to the Regional Water Board by **1 April** following the monitoring year. The Annual Report shall include the following:

1. A summary table of all recycled water Users and Use Areas. Maps may be included to identify Use Areas. Newly permitted recycled water Users and Use Areas shall be identified. When applicable, supplement to the Title 22 Engineering Report and the State Water Board approval letter supporting those additions shall be included.

2. A summary table of all inspections and enforcement activities initiated by the Administrator. Include a discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and/or General Order. Copies of documentation of any enforcement actions taken by the Administrator shall be provided.

3. An evaluation of the performance of the recycled water treatment facility, including discussion of capacity issues, system problems, and a forecast of the flows anticipated in the next year.

4. Tabular summaries of all monitoring data collected during the year, including priority pollutant monitoring, if required. Graphical summaries of monitoring data for trending analysis, when appropriate.

5. The name and contact information for the recycled water operator responsible for operation, maintenance, and system monitoring.

A letter transmitting the annual report shall accompany each report. The letter shall summarize the numbers and severity of violations found during the reporting period,

and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Administrator or the Administrator's authorized agent:

> "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."

B. STATE WATER BOARD VOLUMETRIC ANNUAL REPORTING

Per State Water Resources Control Board's Recycled Water Policy (https://www.waterboards.ca.gov/water_issues/programs/recycled_water/policy.html) , amended in December 2018, dischargers of treated wastewater and recycled water are required to report annually monthly volumes of influent, wastewater produced, and effluent, including treatment level and discharge type. Recycled Water Policy Annual Reports are described in the Discharger's NPDES permit.

C. DOCUMENT SUBMITTALS

The Administrator must submit all monitoring reports and analytical monitoring results to the State Water Resources Control Board's (State Water Board's) GeoTracker database. GeoTracker is an Internet-accessible database system used by the State Water Board, regional boards, and local agencies to track and archive compliance data from authorized or unauthorized discharges of waste to land, or unauthorized releases of hazardous substances from underground storage tanks. This system consists of a relational database, online compliance reporting features, a geographical information system (GIS) interface, and other features that are utilized by regulatory agencies, regulated industries, and the public to input, manage, or access compliance and regulatory tracking data.

GeoTracker Electronic Reporting Requirements: The Discharger must submit all reports/documents and laboratory analytical data to the State Water Resources Control Board's GeoTracker database, consistent with applicable Electronic Submittal of Information (ESI) requirements under the Facility-specific Global Identification Number **WDR100055546.** (https://www.waterboards.ca.gov/ust/electronic_submittal/index.html).

After uploading a report, the Discharger shall notify Central Valley Water Board staff via email at centralvalleysacramento@waterboards.ca.gov. The following information shall be included in the body of the email:

Attention: Groundwater Quality Protection Program Compliance
Title: [Enter Report Title]
GeoTracker Upload ID: [Number]
Facility: EchoWater Resource Recovery Facility
Order: 2016-0068-DDW-R5023
County: Sacramento County
CIWQS Place ID: 254981

For general questions please contact the GeoTracker Help Desk at:

Phone: 1-866-480-1028
Email: geotracker@waterboards.ca.gov

Information for first-time GeoTracker users is available in the Beginner's Guide.

(https://www.waterboards.ca.gov/ust/electronic_submittal/docs/geotracker_esi_rp_beginners_guide_revisedoct2019.pdf)

Table 5 below summarizes the GeoTracker electronic reporting requirements. Central Valley Water Board staff may request submittal of some documents on paper, particularly drawings or maps that require a large size to be readable, or in other electronic formats where evaluation of data is required.

Table 5. GeoTracker Electronic Submittal Information Data Requirements

Electronic Submittal	Description of Action	Action	Frequency
Reports and Documents	Complete copy of all documents, including monitoring reports and technical reports (in searchable PDF format) and any other associated documents related to the Wastewater System.	Upload directly to GeoTracker all monitoring and technical reports and any other associated documents.	On or before the due dates required by the General Order and this MRP, and for other documents when requested by Central Valley Water Board staff.
Laboratory Data	All analytical data (including geochemical data) in electronic deliverable format (EDF). This includes all water, soil, and vapor samples collected when monitoring a discharge.	Direct your California ELAP-accredited laboratory staff to upload all laboratory data directly to GeoTracker.	On or before the due date of the required report.

Electronic Submittal	Description of Action	Action	Frequency
Field Points, Location Data (Geo XY) (See 1 below)	Name, classify, and identify the location (latitude and longitude) of all sampling points. Monitoring wells must be surveyed. Any influent and effluent sample locations identified using the GeoTracker mapping tool shall be identified as "non-surveyed data." These data points are required prior to laboratory data uploads.	Upload the location data (surveyed and non-surveyed) to the GeoTracker GEO_XY file.	Every time a permanent monitoring point is established.

1. Geo XY is required for all wells. New wells must be surveyed. For existing wells, use original well installation survey data, if available. The Discharger must also upload sample locations (e.g., influent and effluent samples) that are not defined as a permanent monitoring well and have not been surveyed by a licensed professional.

The Administrator shall implement the above monitoring program.

This Order is issued under authority delegated to the Executive Officer by the Central Valley Water Board pursuant to Resolution R5-2018-0057 and is effective upon signature.

Digitally signed by John J. Baum
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for Patrick Pulupa, Executive Officer