CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
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MONITORING AND REPORTING PROGRAM CI NO. 3017 FOR LOS ANGELES COUNTY, DEPARTMENT OF PUBLIC WORKS TRANCAS WATER POLLUTION CONTROL PLANT (FILE NO. 61-061)

This Monitoring and Reporting Program (MRP) CI No. 3017 is issued pursuant to California Water Code section 13267, which authorizes the Regional Water Quality Control Board, Los Angeles Region (Regional Board) to require Los Angeles County, Department of Public Works (hereinafter, Discharger) to submit technical and monitoring reports. The reports required herein are necessary to assure compliance with Waste Discharge Requirements (WDRs) Order No. R4-2014-XXXX and to protect 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 the Regional Board Record.

TENTATIVE

I. SUBMITTAL OF REPORTS

1. The Dischargers shall submit the required reports, set forth in the following paragraphs to the Regional Board. The reports shall be submitted to the Regional Board via GeoTracker database under Global ID WDR100001760 on the dates indicated as follows:

   A. **Quarterly Monitoring Reports** shall be received at the Regional Board by the 15th day of the second month following the end of each quarterly monitoring period according to Table 1. The first monitoring report under this program shall be received at the Regional Board by November 5, 2014.

Table 1. Reporting Period and Due Dates

Reporting Period	Report Due
January - March	May 5
April - June	August 5
July - September	November 5
October – December	February 5

   B. **Annual Summary Report** shall be received at the Regional Board February 5 of each year. The first Annual Summary Report under this program shall be received at the Regional Board on February 5, 2015.

   If there is no discharge during any reporting period, the report shall so state.

2. The Dischargers 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 pdf monitoring to the State Water Resources Control Board (State Board) GeoTracker database under Global ID WDR100001760.

II. MONITORING REQUIREMENTS

1. Monitoring shall be used to determine compliance with the requirements of this Order and shall include, but not limited to, the following:

   A. Locations of each groundwater monitoring station where representative samples can be obtained and the rationale for the selection. The Discharger must include a map, at a scale of 1 inch equals 1,200 feet or less, that clearly identifies the locations of all monitoring wells, and production wells.

   B. Sampling protocols (specified in 40 Code of Federal Regulations (CFR) Part 136 or American Water Works Association (AWWA) standards where appropriate) and chain of custody procedures.

   C. For groundwater monitoring, outline the methods and procedures to be used for measuring water levels; purging wells; collecting samples; decontaminating equipment; containing, preserving, and shipping samples, and maintaining appropriate documentation. Also include the procedures for handling, storing, testing, and disposing of purge and decontamination waters generated from the sampling events.

   D. Laboratory or laboratories, which conducted the analyses. Include copy or copies of laboratory certifications by the State Board Environmental Laboratory Accreditation Program (ELAP) every year or when the Discharger changes their contract laboratory.

   E. Analytical test methods used and the corresponding detection limits for purposes of reporting (DLRs) for unregulated and regulated chemicals. For regulated chemicals, please see the State Board website at: http://www.waterboards.ca.gov/drinkingwater/index.shtml

   F. Quality assurance and control measures.

2. The samples shall be analyzed using analytical methods described in 40 CFR Part 136; or where no methods are specified for a given pollutant, by commercially available methods approved by the Regional Board and/or State Board. The Discharger shall select the analytical methods that provide DLRs lower than the limits prescribed in this Order.

3. 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 calibration standard. At no time shall the Discharger use analytical data derived from extrapolation beyond the lowest point of the calibration curve.

4. Upon request by the Discharger, the Regional Board, in consultation with the State Board Quality Assurance Program, may establish DLRs, in any of the following situations:

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A. When the pollutant has no established method under 40 CFR 136 (revised May14, 1999, or subsequent revision);

B. When the method under 40 CFR 136 for the pollutant has a DLR higher than the limit specified in this Order; or,

C. 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.

5. Samples of disinfected effluent must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. All quality assurance and 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 Regional Board staff. Proper chain of custody procedures must be followed and a copy of that documentation shall be submitted with the quarterly report.

6. For unregulated chemical analyses, the Discharger shall select methods according to the following approach:

   A. Use drinking water methods, if available;

   B. Use State Board-recommended methods for unregulated chemicals, if available;

   C. If there is no State Board-recommended drinking water method for a chemical, and more than a single Environmental Protection Agency (EPA)-approved method is available, use the most sensitive of the EPA-approved methods;

   D. If there is no EPA-approved method for a chemical, and more than one method is available from the scientific literature and commercial laboratory, after consultation with State Board, use the most sensitive method;

   E. If no approved method is available for a specific chemical, the Discharger's laboratory may develop or use its own methods and should provide the analytical methods to State Board for review. Those methods may be used until State Board recommended or EPA-approved methods are available.

   F. If the only method available for a chemical is for wastewater analysis (e.g., a chemical listed as a priority pollutant only), sample and analyze for that chemical in the treated and disinfected effluent immediately increase the likelihood of detection. Use this approach until the Discharger's laboratory develops a method for the chemical in drinking water, or until a State Board-recommended or EPA-approved drinking water method is available.

   G. The Discharger is required to inform the Regional Board, in event that D, E, F is occurring.

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III. REPORTING REQUIREMENTS

The Discharger shall submit all reports, shown on Section I SUBMITTAL OF REPORTS to the Regional Board by the dates indicated. All quarterly, and annual monitoring reports 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 effluent into full compliance with water discharge requirements. This section shall clearly list all non-compliance with WDRs, as well as all excursions of effluent limitations.

1. Quarterly reports

A. These reports shall include, at a minimum, the following information:

a. The volume of the final effluent.

b. The date and time of sampling and analyses.

c. All analytical results of samples collected during the monitoring period of the final effluent and groundwater.

d. Records of any operational problems, plant upset and equipment breakdowns or malfunctions, and any discharge(s) of the final effluent.

e. Discussion of compliance, noncompliance, or violation of requirements.

f. All corrective or preventive action(s) taken or planned with schedule of implementation, if any.

B. 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 DLRs must be reported "as measured" by the laboratory (i.e., the measured chemical concentration in the sample); or

b. Sample results less than the DLRs, 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 "Not-Detected", or ND.

C. 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 reflected in the calculation of the average used in demonstrating compliance with average effluent, receiving groundwater water, etc., limitations.

D. The Regional Board may request supporting documentation, such as daily logs of operations.

2. Annual Reports

A. Tabular and graphical summaries of the monitoring data obtained during the previous calendar year.

B. Discussion of the compliance record and corrective 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.

C. An in-depth discussion of the results of the groundwater monitoring and final effluent monitoring programs conducted during the previous year.

D. The description of any changes and anticipated changes including any impacts in operation of any unit processes or facilities shall be provided.

E. A list of the analytical methods employed for each test and associated laboratory quality assurance/quality control procedures shall be included. The report shall restate, for the record, the laboratories used by the Discharger to monitor compliance with this Order, their status of certification, and provide a summary of performance.

F. The report shall confirm operator certification and provide a list of current operating personnel, their responsibilities, and their corresponding grade of certification.

H. The report shall also include the date of the Trancas Water Pollution Control Plant Operation and Maintenance Management Plan, the date the plan was last reviewed, and whether the plan is complete and valid.

I. The groundwater monitoring portion of the annual report shall be prepared under the direction of an engineer registered in the State of California, or a professional geologist in California. All groundwater monitoring reports must include, at minimum, the following:

a. Well identification, date and time of sampling;

b. Sampler identification, and laboratory identification; and,

c. Quarterly observation of groundwater levels, recorded to .01 feet mean sea level, flow direction.

If there is no discharge during any reporting period, the report shall so state.

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IV. WATER QUALITY MONITORING REQUIREMENTS

A. INFLUENT MONITORING

1. The Discharger shall measure the monthly average and maximum daily waste flow to the facility.

2. The Discharger shall update the population estimate in the single family homes and condominiums served by the Trancas Water Pollution Control Plant in each annual summary report.

B. WASTEWATER TREATMENT SYSTEM EFFLUENT MONITORING

1. The following shall constitute the effluent monitoring program, specified in Table 2:

Table 2. Effluent Monitoring Program

Constituent	Units[3]	Type of Sample	Minimum Frequency[4] of Analysis
Total flow[1]	gal/day	recorder	continuous
Turbidity	NTU	recorder	continuous
pH	pH Units	grab	weekly
Temperature	mg/L	grab	weekly
BOD_5 20ºC[2]	mg/L	grab	weekly
Total coliform	MPN/100mL	grab	weekly
Fecal coliform	MPN/100mL	grab	weekly
Enterococcus	MPN/100mL	grab	weekly
Total suspended solids	mg/L	grab	weekly
Residual chlorine	mg/L	grab	weekly
Oil and grease	mg/L	grab	monthly
Ammonia-N	mg/L	grab	monthly
Nitrite-N	mg/L	grab	monthly
Nitrate-N	mg/L	grab	monthly
Organic nitrogen	mg/L	grab	monthly
Total nitrogen[5]	mg/L	grab	monthly
Total dissolved solids	mg/L	grab	monthly
Sulfate	mg/L	grab	monthly
Chloride	mg/L	grab	monthly
Boron	mg/L	grab	monthly
MBAS[6]	mg/L	grab	monthly
Phosphorous	mg/L	grab	monthly

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Constituent	Units[3]	Type of Sample	Minimum Frequency[4] of Analysis
Radioactivity[7]	pCi/L	grab	annually
Priority Pollutants[8]	µg/L	grab	annually
CECs[9]	µg/L	grab	annually[10]

[1]For those constituents that are continuously monitored the Discharger shall report the minimum, maximum, and daily average values.
[2]$BOD_5$20ºC=Biochemical oxygen demand
[3]mg/L=milligrams per liter; µg/L: microgram per liter; °F: degree Fahrenheit; MPN/100mL=most probable number per 100 milliliters; NTU= Nephelometric turbidity units; pCi/L=picocuries per liter.
[4]If any constituent exceeds the limitations contained in Order No. R4-2014-XXXX, then the frequency of analysis shall increase to monthly for quarterly sampling or weekly for monthly within one week of knowledge of the test results until at least three consecutive test results have been obtained. After which if no constituents exceed the baseline, the frequency of analysis shall revert back to the minimum analysis frequency prescribed.
[5]Total nitrogen = nitrate-N + nitrite-N + ammonia-N + Organic Nitrogen
[6]MBAS=Methylene Blue Active Substances
[7]See Attachment A-2 for list of radionuclides
[8]See Appendix A to 40 CFR, Part 423 for list of priority pollutants
[9]See Attachment B for the list of California Constituents of Emerging Concern (CECs)
[10]Effluent monitoring for CECs shall be performed during the first year of the WDRs adoption, and every five (5) years thereof.

2. The quarterly reports shall contain the following information:

   a. Average and maximum daily waste flow (effluent from wastewater treatment system) for each month of the quarter in gallons per day.
   b. Estimated population served during each month of the reporting period.
   c. Results of at least monthly observations in the disposal area for any over flow or surfacing of wastes.

3. In addition, the Discharger shall annually inspect the wastewater treatment system, including the disposal area, and submit an operation and maintenance report on the system. The information to be contained in the report shall include, at a minimum, the following:

   a. Results of annual inspection;
   b. The maintenance records for the wastewater treatment system;
   c. Type of maintenance (preventive or corrective action performed);
   d. Frequency of maintenance, if preventive;
   e. The periodic pumping schedule of the septic tank; and
   f. The name of the person responsible for the operation and maintenance of the facility.

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C. GROUNDWATER MONITORING PROGRAM

The groundwater monitoring program for the Los Angeles County, Department of Public Works disposal system consists of a network of five monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-5) installed around the Trancas Water Pollution Control Plant and leachfields.

The following shall constitute the groundwater monitoring program, specified in Table 3:

Table 3. Groundwater Monitoring Program

Constituent	Units[1]	Type of Sample	Minimum Frequency[3] of Analysis
pH	pH Units	grab	Quarterly
Total coliform	MPN/100mL	grab	Quarterly
Fecal coliform	MPN/100mL	grab	Quarterly
Enterococcus	MPN/100mL	grab	Quarterly
BOD_5 20ºC[2]	mg/L	grab	Quarterly
Ammonia-N	mg/L	grab	Quarterly
Nitrate-N	mg/L	grab	Quarterly
Nitrite-N	mg/L	grab	Quarterly
Organic nitrogen	mg/L	grab	Quarterly
Total nitrogen[4]	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
Residual chlorine[5]	mg/L	grab	Quarterly
Phosphorus	mg/L	grab	Quarterly
MBAS[6]	mg/L	grab	Quarterly
Priority pollutants[7]	µg/L	grab	Annually[8]

[1]mg/L=milligrams per liter; MPN/100mL=most probable number per 100 milliliters
[2]BOD_5 20ºC=Biochemical oxygen demand
[3]If any constituent exceeds the water quality objectives, then the frequency of analysis shall increase to monthly until at least three consecutive test results have been obtained. After which if no constituents exceed the baseline, the frequency of analysis shall revert back to quarterly
[4]Total nitrogen = nitrate-N + nitrite-N + ammonia-N + Organic Nitrogen
[5]UV disinfection unit will be used for disinfection. However, if chlorination is used in an emergency situation or special circumstance, the Discharger must monitor residual chloride in the groundwater wells and include the results in the reports
[6]MBAS=Methylene Blue Active Substances
[7]See Appendix A to 40 CFR, Part 423 for list of priority pollutants
[8]Groundwater monitoring for priority pollutants shall be performed during the first year of the WDRs adoption, and every five (5) years thereof

All groundwater monitoring reports must include, at minimum, the following:

a. Well identification, date and time of sampling;

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b. Sampler identification, and laboratory identification;
c. Quarterly measurement of groundwater levels, recorded to 0.01 feet mean sea level;
d. Water temperature;
e. An assessment of the hydraulic connection, if any, between the disposal areas, groundwater and surface water;
f. Groundwater contour map depicting the direction of groundwater flow across the subject tract; and
g. Quarterly calculation of vertical separation of groundwater levels to the bottom of each septic disposal system.

D. SURFACE WATER MONITORING

The surface water monitoring program for the Los Angeles County, Department of Public Works consists of four monitoring stations (SW-1A, SW-1B, SW-2, and SW-3).

The following shall constitute the surface water monitoring program, specified in Table 4:

Table 4. Surface Water Monitoring Program

Constituent	Units[1]	Type of Sample	Minimum Frequency[3] of Analysis
pH	pH units	grab	monthly
Total coliform	MPN/100mL	grab	monthly
Fecal coliform	MPN/100mL	grab	monthly
Enterococcus	MPN/100mL	grab	monthly
BOD_5 20ºC[2]	mg/L	grab	monthly
Ammonia-N	mg/L	grab	monthly
Nitrate-N	mg/L	grab	monthly
Nitrite-N	mg/L	grab	monthly
Organic nitrogen	mg/L	grab	monthly
Total nitrogen[4]	mg/L	grab	monthly
Residual chlorine	mg/L	grab	monthly
Phosphorus	mg/L	grab	monthly
Surfactants	mg/L	grab	monthly
Total dissolved solids	mg/L	grab	monthly
Sulfate	mg/L	grab	monthly
Chloride	mg/L	grab	monthly
Boron	mg/L	grab	monthly

[1]mg/L=milligrams per liter; MPN/100mL=most probable number per 100 milliliters
[2]BOD_5 20ºC=Biochemical oxygen demand
[3]If any constituent exceeds the water quality objectives, then the frequency of analysis shall increase to monthly until at least three consecutive test results have been obtained. After which if no constituents exceed the baseline, the frequency of analysis shall revert back to quarterly.
[4]Total nitrogen = nitrate-N + nitrite-N + ammonia-N + Organic Nitrogen

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The surface water monitoring and reporting must include the following information:

a. Sample Location, including date and time sampled;
b. Sampler identification and laboratory used;
c. Water temperature;
d. Water elevation with respect to mean sea level; and
e. An assessment of the hydraulic connection, if any, between the disposal areas and surface water

V. WASTE HAULING REPORTING

In the event that waste sludge, septage, or other wastes are hauled 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 during the reporting period, a statement to that effect shall be submitted.

VI. OPERATION AND MAINTENANCE REPORT

The Discharger shall annually submit a technical report to the Executive Officer relative to the operation and maintenance program for the treatment disposal site at the Los Angeles County, Department of Public Works – Trancas Water Pollution Control Plant. The information to be contained in the report shall include 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;
d. Periodic pumping out of the septic tanks;
e. Maintenance record of leaching/disposal fields system; and
f. Results of at least monthly observations in the disposal area for any overflow or surfacing of waste.

This operations and maintenance record shall be kept current and filed with the annual report due by February 5.

VII. MONITORING FREQUENCIES

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Discharger makes a request and the request is backed by statistical trends of monitoring data submitted.

VIII. ELECTRONIC SUBMITTAL OF INFORMATION

The Discharger shall comply with the Electronic Submittal of Information (ESI) requirements by submitting all reports required under the MRP, including discharge location data, and pdf monitoring reports to the State Water Resources Control Board GeoTracker database under Global ID WDR100001760.

IX. CERTIFICATION STATEMENT

Each report 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)"

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: September 11, 2014
Samuel Unger, PE
Executive Officer

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