

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

**MONITORING AND REPORTING PROGRAM NO. CI 5671
FOR
RESIDENTIAL FUND 1347, LLC
(PARADISE RANCH WASTEWATER TREATMENT PLANT)
(File No.69-58)**

This Monitoring and Reporting Program No. CI 5671 (MRP) is issued pursuant to California Water Code section 13267, which authorizes the Regional Water Quality Control Board, Los Angeles Region, (Regional Board) to require a person who discharges waste that could affect the quality of the waters of the state to furnish technical or monitoring reports.

The reports required herein are necessary to assure compliance with Waste Discharge Requirements Order No. R4-2011-XXX (WDRs) 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.

I. REPORTING REQUIREMENTS

- A. Residential Fund 1347, LLC (hereinafter Discharger) shall implement this monitoring program on the effective date of this Order. The first monitoring report under this program, from November to December 2011, shall be submitted by January 15, 2011. If there is no discharge, during any reporting period, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit.

The Discharger shall submit all reports required under this MRP, including groundwater monitoring data, to the State Water Resources Control Board GeoTracker data base, in addition to submitting hard copies to the Regional Board Office. Once the Discharger demonstrates mastery of electronic submittal of reports to GeoTracker for the Site, it may request the Regional Board waive the requirement of submitting hard copies of the report.

Subsequent monitoring reports shall be received at the Regional Board according to the following schedule:

September 9, 2011

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<u>Reporting Period</u>	<u>Report Due</u>
January-March	April 15
April-June	July 15
July-September	October 15
October-December	January 15

- B. By February 1 of each year, beginning February 1, 2012, the Discharger shall submit an annual summary report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the waste discharge requirements.
- C. Laboratory analyses – all chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the California Department of Public Health, Environmental Laboratory Accreditation Program (ELAP). A copy of the laboratory certification shall be provided each time a new and/or renewal is obtained from ELAP.
- D. The method limits (MLs) employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless the Discharger can demonstrate that a particular ML is not attainable and obtains approval for a higher ML from the Executive Officer. At least once a year, the Discharger shall submit a list of the analytical methods employed for each test and the associated laboratory quality assurance/quality control (QA/QC) procedures.
- E. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. All QA/QC samples 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.
- F. Each monitoring report must affirm in writing that “All analyses were conducted at a laboratory certified for such analyses by the California Department of Public Health and in accordance with current USEPA guideline procedures or as specified in this Monitoring Program.” Proper Chain of custody procedures must be followed and a copy of the completed chain of custody form shall be submitted with the report.
- G. For every item where the requirements are not met, the Discharger shall submit a statement of the cause(s), and actions undertaken or proposed which will bring the discharge into full compliance with waste discharge requirements at the earliest possible time, including a timetable for implementation of those actions.

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- H. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall be located at the front of the report and shall clearly list all non-compliance with discharge requirements, as well as all excursions of effluent limitations.
- I. The Discharger shall maintain all records of sampling and analytical results: date; exact place, and time of sampling; dates analyses were performed; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.
- J. If the Discharger performs analyses on any effluent more frequently than required by this Order using approved analytical methods, the results of those analyses shall be included in the report. Those results shall also be reflected in the calculation of the average values used in demonstrating compliance with average effluent limitations.
- K. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents,, and the concentration are readily discernible, The data shall be summarized to demonstrate compliance with the requirements and, where applicable, shall include results of receiving water observations.
- L. Any mitigation/remedial activity including any pre-discharge treatment conducted at the site must be reported in the quarterly monitoring report.

II. EFFLUENT MONITORING REQUIREMENTS

- 1. The effluent sampling location shall be at the end of the treatment system where representative samples of treated wastewater can be obtained prior to discharge to the emergency/wet weather storage tank. All effluent samples must be obtained at the same sampling location. Any proposed change of sampling location shall be identified and approved by the Executive Officer prior to its use.

The following shall constitute the effluent monitoring program for treated wastewater discharged to the emergency/wet weather storage tank:

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<u>Constituent</u>	<u>Unit*</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Total Flow	gallons/day	recorder	continual
pH	pH Units	grab	monthly
Oil and Grease	mg/L	grab	monthly
BOD ₅ (20°C)	mg/L	grab	monthly
Suspended Solids	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
Nitrate as Nitrogen	mg/L	grab	monthly
Nitrite as Nitrogen	mg/L	grab	monthly
Ammonia as Nitrogen	mg/L	grab	monthly
Organic Nitrogen	mg/L	grab	monthly
Residual Chlorine	mg/L	grab	monthly
Total Coliform ¹	MPN/100mL	grab	weekly
Fecal Coliform ¹	MPN/100mL	grab	weekly
Enterococcus ¹	MPN/100mL	grab	weekly
Priority Pollutants ²	µg/L	grab	annually
<u>Constituents of Emerging Concern (CEC)³</u>		grab	annually

* mg/L: milligrams per liter; µg/L: micrograms per liter,
 MPN/100mL: Most Probable Number per 100 milliliter

¹During the initial start up period of 12 weeks for the upgrade wastewater treatment system, 5 samples per week of monitoring in a 7-day period shall be conducted for bacteriological analyses. After the start-up period and the establishment of system operational performance and effluent limits have been met, the effluent monitoring frequency shall be reduced to a weekly interval. If effluent limitations cannot be met, the Executive Office may require more frequent monitoring.

² A list of the priority pollutants is attached. (See Attachment A.)

³ A list of constituents of emerging concern. (See Attachment B.)

2. The quarterly reports shall contain the following information:

- a. Average and maximum daily waste flow for each month in gallons per day.
- b. Estimated population served during each month of the reporting period.
- c. Results of at least monthly observations in the spray disposal area for any overflow or surfacing of waste.
- d. A summary of all exceedences of WDR requirements shall be submitted as the first section of the report, along with a description of efforts to resolve the discrepancies.

III. Groundwater Monitoring Program

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A ground water monitoring program shall be designed to evaluate impacts of wastewater discharged through the spray disposal area to groundwater. A groundwater monitoring work plan must be submitted to the Regional Board for review by close of business on February 10, 2012 and is subject to approval by the Executive Officer prior to implementation. The groundwater monitoring well construction must meet the following:

1. The Discharger shall install sufficient number of monitoring wells that are upgradient and downgradient of the spray disposal areas, to evaluate potential impact to groundwater resulting from the discharge.
2. Construction and development of the monitoring wells shall be completed within 60 days after the approval by the Executive Officer of the monitoring well plan in accordance with the standards in Bulletins 74-81 and 74-90 of the California Department of Water Resources.
3. Within 30 days after installation of the monitoring wells, a well installation report including a scaled plot plan, soil boring logs, water quality data, and as built well construction diagrams shall be submitted to the Regional Board.
4. The report must be prepared by, or under the direction of, a California Registered Geologist, or Certified Engineering Geologist, or a California Registered Civil Engineer with appropriate experience in hydrogeology.
5. The Discharger shall establish baseline groundwater water quality from all monitoring wells. The discharger shall demonstrate that the discharge from the wastewater treatment plant does not contribute to the deterioration of groundwater quality.

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The following shall constitute the groundwater monitoring program:

<u>Constituent</u>	<u>Unit*</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
pH	pH Units	grab	quarterly
Total Dissolved Solids	mg/L	grab	quarterly
Sulfate	mg/L	grab	quarterly
Chloride	mg/L	grab	quarterly
Boron	mg/L	grab	quarterly
Nitrate-N	mg/L	grab	quarterly
Nitrite-N	mg/L	grab	quarterly
Ammonia-N	mg/L	grab	quarterly
Organic-N	mg/L	grab	quarterly
Total Coliform	MPN/100mL	grab	quarterly
Fecal Coliform	MPN/100mL	grab	quarterly
Enterococcus	MPN/100mL	grab	quarterly
Priority Pollutants	µg/L	grab	annually
<u>Constituents of Emerging Concern (CEC)</u>		grab	annually

* mg/L: milligrams per liter; µg/L: micrograms per liter,
 MPN/100mL: Most Probable Number per 100 milliliter

IV. WASTE HAULING REPORT

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

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V. OPERATION AND MAINTENANCE REPORT

The Discharger shall annually submit a technical report with the Executive Officer relative to the operation and maintenance program for the Residential Fund 1347, LLC site. 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 treatment tanks; and
- e. Maintenance record of the spray disposal area.
- 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 1 of each year.

VI. 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)"

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Residential Fund 1347, LLC
(Paradise Ranch Wastewater Treatment Plant)
Monitoring and Reporting Program No. 5671

File No. 69-58

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

Ordered by: _____
Samuel Unger, PE
Executive Officer

Date: November 10, 2011

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ATTACHMENT A

PRIORITY POLLUTANTS

Metals

Antimony
 Arsenic
 Beryllium
 Cadmium
 Chromium
 Copper
 Lead
 Mercury
 Nickel
 Selenium
 Silver
 Thallium
 Zinc

Base/Neutral Extractibles

Acenaphthene
 Benzdine
 1,2,4-Trichlorobenzene
 Hexachlorobenzene
 Hexachloroethane
 Bis(2-chloroethyl) ether
 2-Chloronaphthalene
 1,2-Dichlorobenzene
 1,3-Dichlorobenzene
 1,4-Dichlorobenzene
 3,3'-Dichlorobenzidine
 2,4-Dinitrotoluene
 2,6-Dinitrotoluene
 1,2-Diphenylhydrazine
 Fluoranthene
 4-Chlorophenyl phenyl ether
 4-Bromophenyl phenyl ether
 Bis(2-chloroisopropyl) ether
 Bis(2-chloroethoxy) methane
 Hexachlorobutadiene
 Hexachlorocyclopentadiene

Acid Extractibles

2,4,6-Trichlorophenol
 P-Chloro-m-cresol
 2-Chlorophenol
 2,4-Dichlorophenol
 2,4-Dimethylphenol
 2-Nitrophenol
 4-Nitrophenol
 2,4-Dinitrophenol
 4,6-Dinitro-o-cresol
 Pentachlorophenol
 Phenol

Miscellaneous

Cyanide
 Asbestos (only if specifically required)

Volatile Organics

Acrolein
 Acrylonitrile
 Benzene
 Carbon tetrachloride
 Chlorobenzene
 1,2-Dichloroethane
 1,1,1-Trichloroethane

Pesticides & PCBs

Aldrin
 Chlordane
 Dieldrin
 4,4'-DDT
 4,4'-DDE
 4,4'-DDD
 Alpha-endosulfan
 Beta-endosulfan
 Endosulfan sulfate
 Endrin
 Endrin aldehyde

Isophorone
 Naphthalene
 Nitrobenzene
 N-nitrosodimethylamine
 N-nitrosodi-n-propylamine
 N-nitrosodiphenylamine
 Bis (2-ethylhexyl) phthalate
 Butyl benzyl phthalate
 Di-n-butyl phthalate
 Di-n-octyl phthalate
 Diethyl phthalate
 Dimethyl phthalate
 Benzo(a) anthracene

1,1-Dichloroethane
 1,1,2-Trichloroethane
 1,1,2,2-Tetrachloroethane
 Chloroethane
 Chloroform
 1,1-Dichloroethylene
 1,2-Trans-dichloroethylene
 1,2-Dichloropropane
 1,2-Dichloropropylene
 Ethylbenzene
 Methylene chloride
 Methyl chloride
 Methyl bromide

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Heptachlor	Benzo(a) pyrene	Bromoform
Heptachlor epoxide	Benzo (b) fluoranthene	Bromodichloromethane
Alpha-BHC	Benzo(k) fluoranthene	Dibromochloromethane
Beta-BHC	Chrysene	Tetrachloroethylene
Gamma-BHC	Acenaphthylene	Toluene
Delta-BHC	Anthracene	Trichloroethylene
Toxaphene	1,12-Benzoperylene	Vinyl chloride
PCB 1016	Fluorene	2-Chloroethyl vinyl ether
PCB 1221	Phenanthrene	
PCB 1232	1,2,5,6-Dibenzanthracene	
PCB 1242	Indeno (1,2,3-cd) pyrene	
PCB 1248	Pyrene	
PCB 1254	TCDD	
PCB 1260		

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Attachment B

Parameter	Units
17 α -Ethinyl Estradiol	ng/L
17 β -Estradiol	ng/L
Estrone	ng/L
Bisphenol A	ng/L
Nonylphenol and nonylphenol polyethoxylates	ng/L
Octylphenol and octylphenol polyethoxylates	ng/L
Polybrominated diphenyl ethers	ng/L
Acetaminophen	ng/L
Amoxicillin	ng/L
Azithromycin	ng/L
Carbamazepine	ng/L
Caffeine	ng/L
Ciprofloxacin	ng/L
DEET	ng/L
Dilantin	ng/L
Gemfibrozil	ng/L
Ibuprofen	ng/L
Lipitor	ng/L
Primidone	ng/L
Sulfamethoxazole	ng/L
Trimethoprim	ng/L
Salicylic acid	ng/L
TCEP	ng/L
Triclosan	ng/L

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