

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

March 27, 2015

Mr. Richard Gordon, Chief
Division of Maintenance
California Department of Transportation
100 S. Main Street, MS-2
Los Angeles, CA 90012

RETURN RECEIPT REQUESTED
CERTIFIED MAIL No. 7011 2970 0000 0645 4097

Dear Mr. Gordon:

REVISED COVERAGE UNDER GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND WASTE DISCHARGE REQUIREMENTS—CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), ROUTE 105 DEWATERING SYSTEM, GARFIELD/DOWNEY/ARDIS AVENUES, DOWNEY, CALIFORNIA (NPDES NO. CAG914001, CI-8068)

The discharge of groundwater generated from the above-referenced facility is currently regulated under NPDES General Permit No. CAG914001, Order No. R4-2013-0043, adopted by this Board on April 7, 2013. On January 2, 2015, we received a letter from Mr. Gerald Greene, Project Manager, CWE, informing the Water Board of the effluent limitation exceedances for pollutants Vinyl Chloride and 1,1-Dichloroethane in the groundwater discharge. Therefore, the permit enrollment has been revised and appropriate effluent limitations for these pollutants have been prescribed as specified in the Order R4-2013-0043 and reflected in the Fact Sheet.

Based on the attached Fact Sheet and other information provided, the groundwater discharge meets the conditions to be regulated under Order No. R4-2013-0043, *Waste Discharge Requirements for Discharges Treated Groundwater From Investigation and/or Cleanup of Volatile Organic Compounds Contaminated-Sites to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties*, adopted by this Board on April 7, 2013.

Enclosed are your Waste Discharge Requirements, which also serve as your NPDES permit, consisting of Order No. R4-2013-0043 and Monitoring and Reporting Program No. CI-8068. The discharge limitations in Part V. of the Effluent Limitation Table 1, Table 2 and Table 3 of Order No. R4-2013-0043 for the specific constituents listed in the Table with the enclosed Fact Sheet are applicable to your discharge. The groundwater discharge flows into the Los Angeles River between Figueroa Street and Los Angeles River Estuary (Willow Street). Therefore, the discharge limits in Attachment B.7.d of Order No. R4-2013-0043 are applicable to your discharge. In addition, the Los Angeles River Metal and bacteria Total Maximum Daily Load (TMDL) are applicable to your discharge. As appropriate all other parts of the Order applies, including but not limited to narrative effluent and receiving water limitations. Prior to starting discharge, a representative sample of the effluent shall be obtained and analyzed to determine compliance with the discharge limitations.

CHARLES STRINGER, CHAIR | SAMUEL UNGER, EXECUTIVE OFFICER

320 West 4th St., Suite 200, Los Angeles, CA 90013 | www.waterboards.ca.gov/losangeles

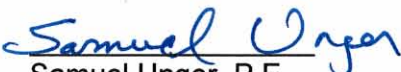
The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of coverage under this permit. All monitoring reports should be sent to the Regional Board, electronically by e-mail to losangeles@waterboards.ca.gov. When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-8068 and NPDES No. CAG9914001", which will assure that the reports are directed to the appropriate file and staff. Also, please do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

The Regional Board is implementing a paperless office system to reduce paper use, increase efficiency *and* provide a more effective way for our staff, the public and interested parties to view water quality documents. Therefore, please convert all regulatory documents, submissions, data and correspondence that you would normally submit to us as hard copies to a searchable Portable Document Format (PDF). Documents that are less than 10 MB should be emailed to losangeles@waterboards.ca.gov. Documents that are 10 MB or larger should be transferred to a disk and mailed to the address listed above. If you need additional information regarding electronic submittal of documents please visit the Regional Board's website listed above and navigate to Paperless Office.

We are sending a copy of Order No. R4-2013-0043 only to the applicant. For those on the mailing list, please refer to the Board Order sent to you previously or download a copy of the Order from our website at http://www.waterboards.ca.gov/losangeles/board_decisions.

If you have any questions, please contact Namiraj Jain at (213) 620-6003.

Sincerely,


Samuel Unger, P.E.
Executive Officer

Enclosures:

Order No. R4-2013-0043, General NPDES Permit No. CAG914001
Fact Sheet
Monitoring and Reporting Program No. CI-8068

cc: Environmental Protection Agency, Region 9, Permit Section (WTR-5)
State Water Resources Control Board, NPDES_Wastewater@waterboards.ca.gov
U.S. Army Corps of Engineers
NOAA, National Marine Fisheries Service
Department of Interior, U.S. Fish and Wildlife Service
California Department of Fish and Wildlife
Los Angeles Department of Public Works, Flood Control and Drainage
Los Angeles Department of Environmental Program
Jae Kim, Tetrattech

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
320 West 4th Street, Suite 200, Los Angeles
REVISED FACT SHEET
WASTE DISCHARGE REQUIREMENTS
FOR
CALIFORNIA DEPARTMENT OF TRANSPORTATION
(ROUTE 105 DEWATERING PROJECT)
(NPDES NO. CAG914001, SERIES NO. 070)
CI-8068

FACILITY LOCATION

Ardis Avenue and Garfield Avenue
Downey, CA

FACILITY MAILING ADDRESS

100 S. Main Street
Los Angeles, CA 90012

PROJECT DESCRIPTION

California Department of Transportation (Caltrans) discharges wastewater from a permanent groundwater dewatering systems located along Route 105 freeway. Dewatering operation is necessary to preserve the integrity of Route 105 freeway structure and ensure the safety of motorists. Thirteen dewatering wells (1D1 to 1D13) are activated when the groundwater level rises to three feet below the lower edge of the roadway. The pump-houses are located at the following stations:

Dewatering Station	Location	Dewatering Wells
Garfield Pump-house	Garfield Avenue, Paramount	Well 1D1-1D13
Downey Pump-house	Downey Avenue, Downey	Well 2D1-2D2
Ardis Pump-house	Ardis Avenue, Downey	Well 3D1-3D2

The pumped groundwater is passed through granular activated carbon units to remove volatile organic compounds. The treated groundwater is discharged to a nearby storm drain system. Garfield pump-house is the only active groundwater dewatering station. The other two pumping stations, Downey Pumping House Wells (Wells 2D1 to 2D22) and Ardis Pumping House Wells (Wells 3D1 to 3D22) are not active at this time and are not equipped with treatment systems. These pump-houses are on standby mode and will be activated only if the groundwater rises to the edge of the road pavement. If dewatering operation is necessary, these two pump-houses will be equipped with a treatment systems to remove contaminants from the pumped groundwater before discharge to the storm drains.

On January 2, 2015, we received a letter from Mr. Gerald Greene, Project Manager, CWE, informing Water Board of the effluent limitation exceedances for pollutants Vinyl Chloride and 1,1-Dichloroethane in the groundwater discharge. Therefore, the permit enrollment has been revised and appropriate effluent limitations have been prescribed for these pollutants as specified in the Order R4-2013-0043.

VOLUME AND DESCRIPTION OF DISCHARGE

Up to 1 million gallons per day of treated groundwater will be discharged into the storm water catch basin located at the following discharge outfall locations listed below. The high rate of discharge is usually short duration, 7 to 10 days twice a year. The discharge flows to Los Angeles River, a water of the United States. The site location map and flow schematic diagram are shown in Figures 1 and 2, respectively.

Pumphouse	Discharge Location	Latitude	Longitude
Garfield	M-001	33° 54' 42"	118° 09' 56"
Downey	M-002	33° 54' 43"	118° 09' 15"
Ardis	M-003	33° 54' 52"	118° 07' 22"

APPLICABLE EFFLUENT LIMITATIONS

Based on the information provided in the NPDES Application Supplemental Requirements, the following constituents listed in the Table 1 and Table 2 below have been determined to show reasonable potential to exist in the discharge. The discharge flows into the Los Angeles River between Figueroa Street and Los Angeles River Estuary (Willow Street). Therefore, the limitations in Attachment B.7.d of Order No. R4-2013-0043 are applicable to your discharge. In addition, the Los Angeles River Metal and bacteria Total Maximum Daily Load (TMDL) are applicable to your discharge. The Discharger must comply with all other parts of the Order, including, but not limited, to narrative effluent and receiving water limitations.

The Discharger is required to comply with these effluent limitations listed in Table 1 and Table 2 during its enrollment under Order No. R4-2013-0043.

Table 1

Constituents	Units	Discharge Limitations	
		Daily Maximum	Monthly Average
Total Suspended Solids	mg/L	75	50
Turbidity	NTU	75	50
BOD ₅ 20°C	mg/L	30	20
Oil and Grease	mg/L	15	10
Settleable Solids	ml/L	0.3	0.1
Sulfides	mg/L	1.0	---
Total Dissolved Solids	mg/L	1500	---
Sulfate	mg/L	350	---
Chloride	mg/L	190	---
Nitrogen (NO ₃ -N +NO ₂ -N)	mg/L	8	---
Phenols	mg/L	1.0	---
Residual Chlorine	mg/L	0.1	---
1,1-Dichloroethylene	µg/L	0.057 ¹	---
Ttrichloroethylene	µg/L	2.7	---

¹ If the reported MDL is greater than the effluent limitation, then a non-detect result using an MDL of 0.5 µg/L is deemed to be in compliance.

Constituents	Units	Discharge Limitations	
		Daily Maximum	Monthly Average
Tertiary butyl alcohol (TBA)	µg/L	12	---
Vinyl Chloride	µg/L	0.5	---

Table 2

Los Angeles River Metal TMDL		Dry Weather Discharge Limitation ²	
	Units	Daily Maximum	Monthly Average
Copper	µg/L	21	11
Lead	µg/L	8.2	4.1
Zinc	µg/L	210	110
		Wet Weather Discharge Limitations ³	
	Units	Daily Maximum	Monthly Average
Cadmium	µg/L	3.1	1.5
Copper	µg/L	17	8.5
Lead	µg/L	62	31
Zinc	µg/L	160	79
Los Angeles River Bacteria TMDL		Geometric Mean	Single Sample
<i>E coli Density</i>	MPN/100 mL	126	235

FREQUENCY OF DISCHARGE

The discharge of groundwater is intermittent and occurs 10 to 7 days in a year.

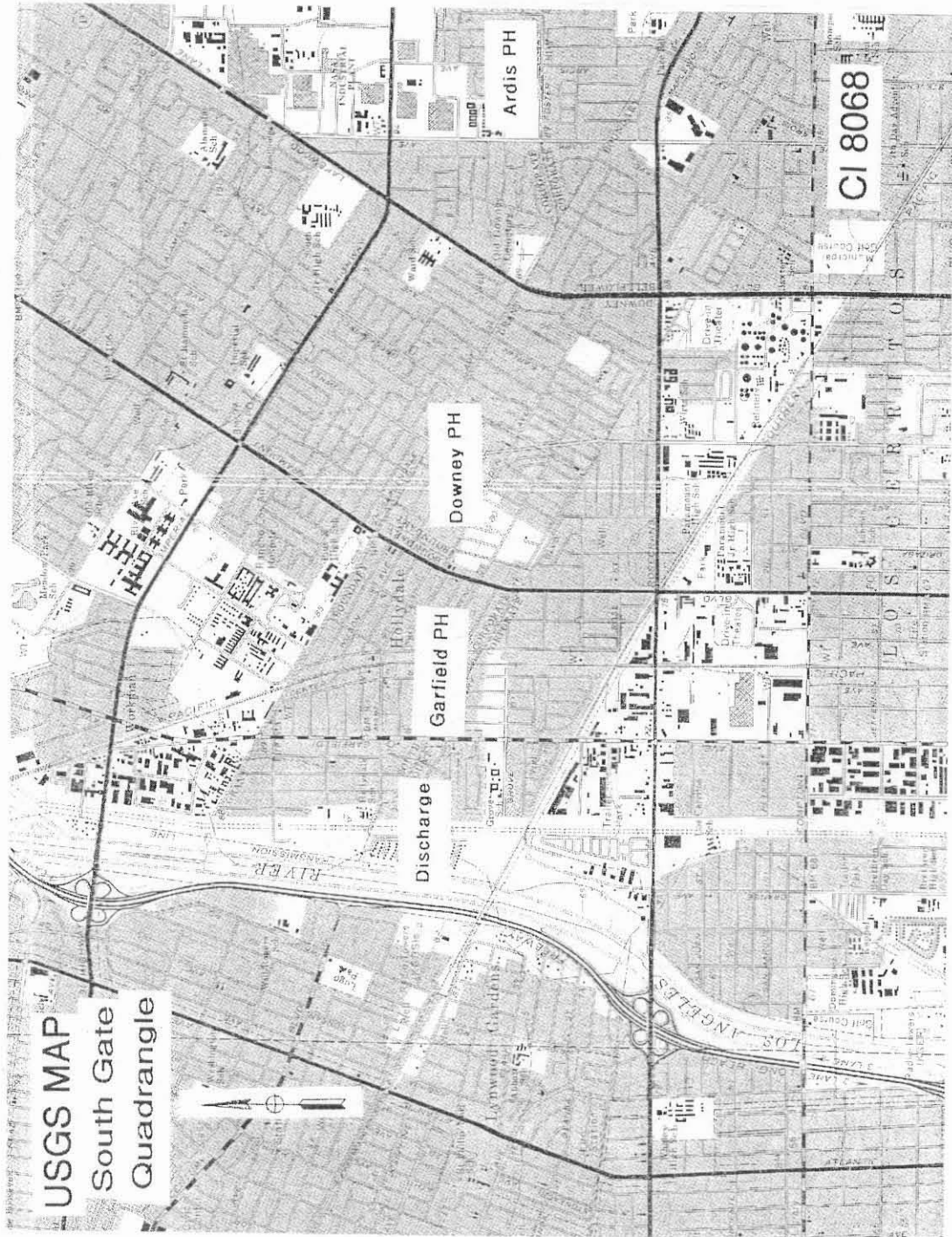
REUSE OF WATER

The Discharger has conducted a water re-use feasibility analysis. Caltrans entered into an agreement with the Water Replenishment District (WRD), who will beneficially reuse the pumped groundwater for injection at a Sea Water Barrier site. However, WRD has suspended the project. Caltrans is awaiting the results of recent litigation to resume effort in reusing the pumped groundwater. WRD has recommended other alternatives for offsetting the pumped groundwater. The two options being the Rio Hondo/San Gabriel River Spreading Grounds Interconnection Pipeline Project and the Whittier Narrows Conservative Pool Increase Project.

There are no other feasible reuse options for the discharge. Therefore, on a needed basis, the treated groundwater will be discharged to the Los Angeles River in compliance with the requirements of the attached order.

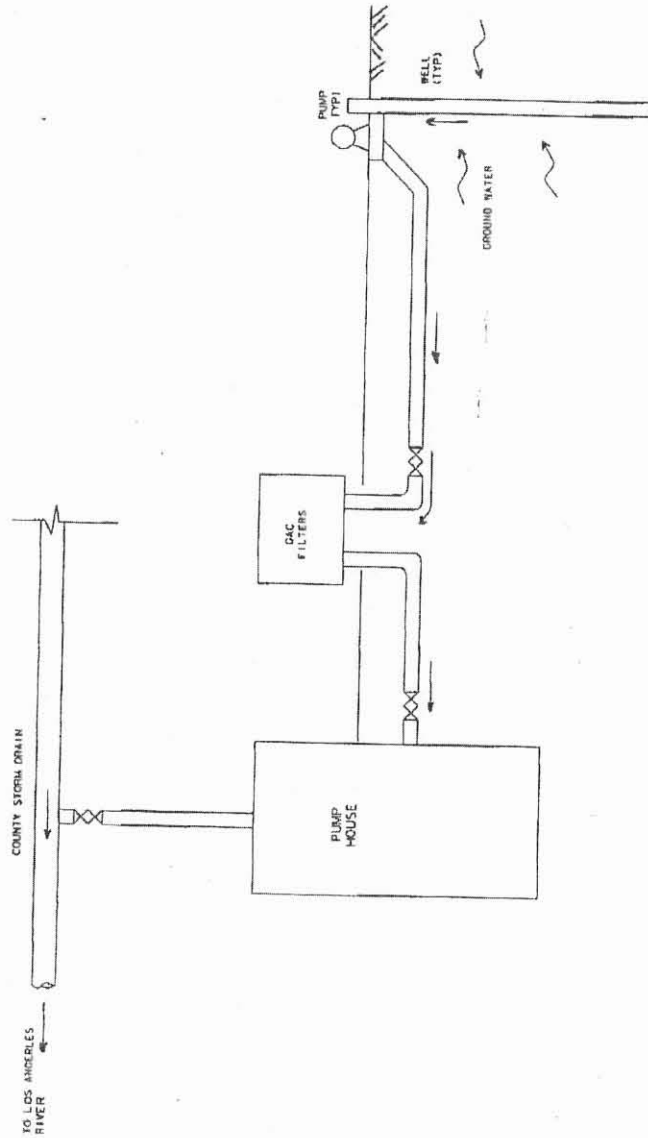
² For the purposes of this General Permit, discharges occurring from April 15th through November 14th are considered dry weather discharges.

³ For the purposes of this General Permit, discharges occurring from November 15th through April 14th are considered wet weather discharges.



Site Location
FIGURE 1

1 - 105 GROUND WATER EXTRACTION SCHEMATIC
GARFIELD, DOWNEY, & ARD'S PUMPHOUSES
(NOT TO SCALE)



**Treatment Schematic
FIGURE 2**



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Los Angeles Regional Water Quality Control Board

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

MONITORING AND REPORTING PROGRAM NO. CI-8068

FOR
DISCHARGES OF TREATED GROUNDWATER FROM INVESTIGATION AND/OR CLEANUP
OF VOLATILE ORGANIC COMPOUNDS-CONTAMINATED SITES
TO SURFACE WATERS
IN
COASTAL WATERSHEDS OF LOS ANGELES AND VENTURA COUNTIES
(GENERAL NPDES PERMIT NO. CAG914001, SERIES NO.070)

This Order was adopted by the Regional Water Board on:	March 7, 2013
Enrollment to this Order shall become effective on:	March 27, 2015
This Order expired on:	March 7, 2018
The U.S. Environmental Protection Agency and the Regional Water Quality Control Board have classified discharges covered under this General Permit as a minor discharge.	

Ordered by: Samuel Unger
Samuel Unger, P.E.
Executive Officer

Date: March 27, 2015

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Monitoring and Reporting Program (MRP)

40 CFR section 122.48 requires that all NPDES permits specify monitoring and reporting requirements. Water Code Sections 13267 and 13383 of the CWC also authorize the Regional Water Board to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements, which implement the federal and California regulations.

I. GENERAL MONITORING PROVISIONS

- A. An effluent sampling station shall be established for Discharge Point M-001, M-002 and M-003 shall be located where representative samples of that effluent can be obtained.
- B. This Regional Water Board shall be notified in writing of any change in the sampling stations once established or in the methods for determining the quantities of pollutants in the individual waste streams.
- C. Pollutants shall be analyzed using the analytical methods described in 40 CFR section Sections 136.3, 136.4, and 136.5 (revised March 12, 2007); or, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board.
- D. For any analyses performed for which no procedure is specified in the USEPA guidelines or in the MRP, the constituent or parameter analyzed and the method or procedure used must be specified in the monitoring report.
- E. Laboratories analyzing effluent samples and receiving water samples shall be certified by the California Department of Health Services Environmental Laboratory Approval Program (ELAP) or approved by the Executive Officer and must include QA/QC data in their reports. A copy of the laboratory certification shall be provided each time a new certification and/or renewal of the certification is obtained from ELAP.
- F. Each monitoring report must affirm in writing that "all analyses were conducted at a laboratory certified for such analyses by the Department of Health Services or approved by the Executive Officer and in accordance with current USEPA guideline procedures or as specified in this Monitoring and Reporting Program".
- G. The monitoring reports shall specify the analytical method, the Method Detection Limit (MDL), and the State Water Board Minimum Level (ML) for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported by one of the following methods, as appropriate:
 - 1. An actual numerical value for sample results greater than or equal to the ML; or
 - 2. "Detected, but Not Quantified (DNQ)" if results are greater than or equal to the laboratory's MDL but less than the ML; or
 - 3. "Not Detected (ND)" for sample results less than the laboratory's MDL with the MDL indicated for the analytical method used.

Analytical data reported as "less than" for the purpose of reporting compliance with permit limitations shall be the same or lower than the permit limit(s) established for the given parameter.

Current MLs, which are listed in Appendix A, are those published by the State Water Resources Control Board in the *Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California*, March 2, 2000.

- H. Where possible, the MLs employed for effluent analyses shall be lower than the permit limitations established for a given parameter. If the ML value is not below the effluent limitation, then the lowest ML value and its associated analytical method shall be selected for compliance purposes. At least once a year, the Discharger shall submit a list of the analytical methods employed for each test and associated laboratory QA/QC procedures.

The Regional Water Board, in consultation with the State Water Board Quality Assurance Program, shall establish a ML that is not contained in Appendix A to be included in the Discharger's permit in any of the following situations:

1. When the pollutant under consideration is not included in Appendix A;
 2. When the Discharger and Regional Water Board agree to include in the permit a test method that is more sensitive than that specified in 40 CFR Part 136 (revised May 14, 1999);
 3. When the Discharger agrees to use an ML that is lower than that listed in Appendix A;
 4. When the Discharger demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Appendix A, and proposes an appropriate ML for their matrix; or,
 5. When the Discharger uses a method whose quantification practices are not consistent with the definition of an ML. Examples of such methods are the USEPA-approved method 1613 for dioxins and furans, method 1624 for volatile organic substances, and method 1625 for semi-volatile organic substances. In such cases, the Discharger, the Regional Water Board, and the State Water Board shall agree on a lowest quantifiable limit and that limit will substitute for the ML for reporting and compliance determination purposes.
- I. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR section 136.3. All QA/QC items must be run on the same dates the samples were actually analyzed, and the results shall be reported in the Regional Water Board format, when it becomes available, and submitted with the laboratory reports. Proper chain of custody procedures must be followed, and a copy of the chain of custody shall be submitted with the report.
- J. All analyses shall be accompanied by the chain of custody, including but not limited to data and time of sampling, sample identification, and name of person who performed sampling, date of analysis, name of person who performed analysis, QA/QC data, method detection limits, analytical methods, copy of laboratory certification, and a perjury statement executed by the person responsible for the laboratory.

- K. The Discharger shall calibrate and perform maintenance procedures on all monitoring instruments and to insure accuracy of measurements, or shall insure that both equipment activities will be conducted.
- L. The Discharger shall have an acceptable written quality assurance (QA) plan for laboratory analyses. The 4th quarter monitoring report required in Section IX.B.4. of this MRP shall also summarize the QA activities for the previous year. Unless otherwise specified in the analytical method, duplicate samples must be analyzed at a frequency of 5% (1 in 20 samples) with at least one if there are fewer than 20 samples in a batch. A batch is defined as a single analytical run encompassing no more than 24 hours from start to finish. A similar frequency shall be maintained for analyzing spiked samples.
- M. When requested by the Regional Water Board or USEPA, the Discharger will participate in the NPDES discharge monitoring report QA performance study. The Discharger must have a success rate equal to or greater than 80%.
- N. For parameters that both monthly average and daily maximum limitations are specified and the monitoring frequency is less than four times a month, the following shall apply. If an analytical result is greater than the monthly average limitation, the Discharger shall collect four additional samples at approximately equal intervals until compliance with the monthly average limitation has been demonstrated. All five analytical results shall be reported in the monitoring report for that month, or 45 days after results for the additional samples were received, whichever is later. In the event of noncompliance with a monthly average effluent limitation, the sampling frequency for that constituent shall be increased to weekly and shall continue at this level until compliance with the monthly average effluent limitation has been demonstrated. The Discharger shall provide for the approval of the Executive Officer a program to ensure future compliance with the monthly average limitation.
- O. In the event wastes are transported to a different disposal site during the report period, the following shall be reported in the monitoring report:
 - 1. Types of wastes and quantity of each type;
 - 2. Name and address for each hauler of wastes (or method of transport if other than by hauling); and
 - 3. Location of the final point(s) of disposal for each type of waste.

If no wastes are transported off-site during the reporting period, a statement to that effect shall be submitted.

- P. Each monitoring report shall state whether or not there was any change in the discharge as described in the Order during the reporting period.

All monitoring reports shall include the discharge limitations in the Order, tabulated analytical data, the chain of custody form, and the laboratory report (including but not limited to date and time of sampling, date of analyses, method of analysis and detection limits).

- Q. Each monitoring report shall contain a separate section titled "Summary of Non-compliance" which discusses the compliance record and corrective action taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This

section shall clearly list all non-compliance with waste discharge requirements, as well as all excursions of effluent limitations.

R. Sample collection requirements (as appropriate)

1. Daily samples shall be collected each day.
2. Weekly samples shall be collected on a representative day of each week.
3. Monthly samples shall be collected on a representative day of each month.
4. Quarterly samples shall be collected in February, May, August, and November.
5. Semi-annual samples shall be collected in May and November.
6. Annual samples shall be collected in November.

S. Before commencing a new discharge, a representative sample of the effluent shall be collected and analyzed for toxicity and for all the constituents listed in Fact Sheet, and the test results must meet all applicable limitations of Order No. R4-2013-0043.

T. In the In the event of presence of oil sheen, debris, and/or other objectionable materials or odors, discharge shall not commence until compliance with the requirements is demonstrated. All visual observations shall be included in the monitoring report.

U. If monitoring results indicate an exceedance of a limit contained in Order R4-2013-0043, the discharge shall be terminated and shall only be resumed after remedial measures have been implemented and full compliance with the requirements has been ascertained.

V. In addition, as applicable, following an effluent limit exceedance, the Discharger shall implement the following accelerated monitoring program:

- a. Monthly monitoring shall be increased to weekly monitoring,
- b. Quarterly monitoring shall be increased to monthly monitoring, and
- c. Semi-annually monitoring shall be increased to quarterly.
- d. Annual monitoring shall be increased to semi-annually.

If three consecutive accelerated monitoring events demonstrate full compliance with effluent limits, the Discharger may return to the regular monitoring frequency, with the approval of the Executive Officer of the Regional Water Board.

II. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in this Order:

Table 1. Monitoring Points Information

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
Discharge Point 1	M-001	Treated effluent, after treatment and before contact with the receiving water and/or dilution by any other water or waste.
Discharge Point 2	M-002	If more than one discharge point is authorized under the General Permit, compliance monitoring locations shall be named M-002, M-003, etc. and shall be located so as to allow collection of treated effluent after treatment and before contact with receiving water and/or dilution by any other water or waste.

III. EFFLUENT MONITORING REQUIREMENTS

A. The Discharger shall monitor the effluent at Discharge Point M-001, M-002 and M-003. *The representative effluent samples shall be collected after all treatment processes (if any) while discharging and before contact or mixing with receiving water or other waters and/or dilution with any other water or waste.*

Table 2. Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Flow	gal/day	totalizer	continuously ²	--
pH	pH units	grab	monthly	1
Temperature	°F	grab	monthly	1
Total Suspended Solids	mg/L	grab	monthly	1
Turbidity	NTU	grab	monthly	1
BOD ₅ 20°C	mg/L	grab	monthly	1
Oil and Grease	mg/L	grab	monthly	1
Settleable Solids	ml/L	grab	monthly	1
Sulfides	mg/L	grab	monthly	1
Total Dissolved Solids	mg/L	grab	monthly	1
Sulfate	mg/L	grab	monthly	1
Chloride	mg/L	grab	monthly	1
Nitrogen (NO ₃ -N +NO ₂ -N)	mg/L	grab	monthly	1
Phenols	mg/L	grab	monthly	1
Residual Chlorine	mg/L	grab	monthly	1
1,1-Dichloroethylene	µg/L	grab	monthly	1
Ttrichloroethylene	µg/L	grab	monthly	1
Tertiary butyl alcohol (TBA)	µg/L	grab	monthly	1

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Vinyl Chloride	µg/L	grab	monthly	1
Copper	µg/L	grab	quarterly	1
Lead	µg/L	grab	quarterly	1
Zinc	µg/L	grab	quarterly	1
Cadmium	µg/L	grab	quarterly	1
<i>E coli Density</i>	MPN/100 mL	grab	quarterly	
Acute Toxicity	% survival	grab	Annually	1

1. Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136; for priority pollutants the methods must meet the lowest minimum levels (MLs) specified in Attachment 4 of the SIP (and included as Appendix A of this Order), where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board.
- 2: Record the monthly total flow and report the calculated daily average flow and monthly flow in the quarterly and annual reports, as appropriate."

IV. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. Definition of Toxicity

Acute Toxicity

The MRP requires an annual test of Acute Toxicity, which measures primarily lethal effects that occur over a 96-hour period. Acute toxicity shall be recorded in percent survival measured in undiluted (100%) effluent.

B. Acute Toxicity Effluent Monitoring Program

1. The Discharger shall conduct acute toxicity tests on effluent grab samples by methods specified in 40 CFR Part 136 which cites USEPA's *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fifth Edition, October 2002, USEPA, Office of Water, Washington D.C. (EPA/821-R-02-012) or a more recent edition to ensure compliance in 100 % effluent.
2. The fathead minnow, *Pimephales promelas*, shall be used as the test species for discharge into freshwater and the topsmelt, *Atherinops affinis*, shall be used as the test species for discharge into coastal water. If the salinity of the receiving water is between 1 to 32 parts per thousand (ppt), the Discharger have the option of using the inland silverside, *Menidia beryllina*, instead of the topsmelt. The method for topsmelt (Larval Survival and Growth Test Method 1006.0) is found in USEPA's Short-term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Waters to West Coast Marine and Estuarine Organisms, First Edition, August 1995 (EPA/600/R-95/136), or a more recent edition. The method for *Pimephales promelas* is found in USEPA's Acute Toxicity Test Method 2000.0 and method for *Menidia beryllina* is found in USEPA's Acute Toxicity Test Method 2006.0, or a more recent edition.

3. In lieu of conducting the standard acute toxicity testing with the fathead minnow, the Discharger may elect to report the results or endpoint from the first 48 hours of the chronic toxicity test as the results of the acute toxicity test.
4. Accelerated Toxicity Monitoring: If the results of the toxicity test yield a survival of less than 90%, then the frequency of analyses shall increase to monthly until at least three test results have been obtained and full compliance with effluent limitations has been demonstrated, after which the frequency of analyses shall revert to annually. Results of toxicity tests shall be included in the first monitoring report following sampling.
5. Effluent samples shall be collected after all treatment processes and before discharge to the receiving water.

C. Reporting

1. The Discharger shall submit a full report of the toxicity test results, including any accelerated testing conducted during the month as required by this permit. Test results shall be reported as % survival for acute toxicity test results with the self monitoring reports (SMR) for the month in which the test is conducted.
2. If an initial investigation indicates the source of toxicity and accelerated testing is unnecessary, then those results also shall be submitted with the SMR for the period in which the investigation occurred.
 - a. The full report shall be submitted on or before the end of the month in which the SMR is submitted.
 - b. The full report shall consist of (1) the results; (2) the dates of sample collection and initiation of each toxicity test; (3) the acute toxicity average limit.
3. Test results for toxicity tests shall be reported according to the appropriate manual chapter on Report Preparation and shall be attached to the SMR. Routine reporting shall include, at a minimum, as applicable, for each test:
 - a. Sample date(s);
 - b. Test initiation date;
 - c. Test species;
 - d. End point values for each dilution (e.g., number of young, growth rate, percent survival);
 - e. Any applicable charts; and
 - f. Available water quality measurements for each test (e.g., pH, D.O., temperature, conductivity, hardness, salinity, ammonia).
4. The Discharger shall provide a compliance summary, which includes a summary table of toxicity data from all samples collected during that year.

The Discharger shall notify by telephone or electronically, this Regional Water Board by calling Namiraj Jain at (213) 620-6003 and/or by email to njain@waterboards.ca.gov of any toxicity exceedance of the limit or trigger within 24 hours of receipt of the results followed by a written report within 14 calendar days of receipt of the results. The verbal or electronic notification shall include the exceedance and the plan the Discharger has taken or will take to investigate and correct the cause(s) of toxicity. It may also include a status report on any

actions required by the permit, with a schedule for actions not yet completed. If no actions have been taken, the reasons shall be given.

V. LAND DISCHARGE MONITORING REQUIREMENTS (NOT APPLICABLE)

VI. RECLAMATION MONITORING REQUIREMENTS (NOT APPLICABLE)

VII. RECEIVING WATER MONITORING REQUIREMENTS – SURFACE WATER AND GROUNDWATER (NOT APPLICABLE)

VIII. OTHER MONITORING REQUIREMENTS (NOT APPLICABLE)

IX. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

1. The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
2. If there is no discharge during any reporting period, the report shall so state.
3. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall clearly list all non-compliance with waste discharge requirements, as well as all excursions of effluent limitations.
4. The Discharger shall inform the Regional Water Board well in advance of any proposed construction activity that could potentially affect compliance with applicable requirements

B. Self Monitoring Reports

1. At any time during the term of this General Permit, the State or Regional Water Board may notify the Discharger to electronically submit Self-Monitoring Reports (SMRs) using the State Water Board's California Integrated Water Quality System (CIWQS) Program Web site (<http://www.waterboards.ca.gov/ciwqs/index.html>). Until such notification is given, the Discharger shall email electronic copy of SMRs to losangeles@waterboards.ca.gov. The CIWQS Web site will provide additional directions for SMR submittal in the event there will be service interruption for electronic submittal.
2. Paperless Submittal of SMRs: SMRs must be submitted to the Regional Water Board, signed and certified as required by the Standard Provisions (Attachment D). The Regional Water Board is implementing a paperless office system to reduce paper use, increase efficiency and provide a more effective way for our staff, the public and interested parties to view water quality documents. Therefore, please convert all regulatory documents, submissions, data and correspondence that you would normally submit to us as hard copies to a searchable Portable Document Format (PDF). Documents that are less than 10 MB should be emailed to losangeles@waterboards.ca.gov. Documents that are 10 MB or larger should be transferred to a disk and mailed to the address listed below.

CRWQCB – Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013
Attn: Information & Technology Unit

If you need additional information regarding electronic submittal of documents please visit and navigate the Paperless Office pages in the Regional Water Board's website at <http://www.waterboards.ca.gov/losangeles/resources/Paperless/>.

3. The Discharger shall report in the SMR the results for all monitoring specified in this MRP. The Discharger shall submit SMRs including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. If the Discharger monitors any pollutant more frequently than required by this Order, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.
1. Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule:

Table 3. Monitoring Periods and Reporting Schedule

Sampling Frequency	Monitoring Period Begins On	Monitoring Period	SMR Due Date
Continuously	March 27, 2015	Continuously	Submit with quarterly SMR
Weekly	Sunday following permit effective date or on permit effective date if on a Sunday	Sunday through Saturday	Submit with quarterly SMR
Monthly	First day of calendar month following permit effective date or on permit effective date if that date is first day of the month	1 st day of calendar month through last day of calendar month	Submit with quarterly SMR
Quarterly	Closest of January 1, April 1, July 1, or October 1 following March 25, 2015	January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31	45 days from the end of the monitoring period
Annually	January 1 following (or on) March 27, 2015	January 1 through December 31	45 days from the end of the monitoring period

5. Reporting Protocols. The Discharger shall report with each sample result the applicable Reporting Level (RL) and the current Method Detection Limit (MDL), as determined by the procedure in Part 136.

The Discharger shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:

- a. Sample results greater than or equal to the RL shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
- b. Sample results less than the RL, but greater than or equal to the laboratory's MDL, shall be reported as "Detected, but Not Quantified," or DNQ. The estimated chemical concentration of the sample shall also be reported.

For the purposes of data collection, the laboratory shall write the estimated chemical concentration next to DNQ as well as the words "Estimated Concentration" (may be shortened to "Est. Conc."). The laboratory may, if such information is available, include numerical estimates of the data quality for the reported result. Numerical estimates of data quality may be percent accuracy (\pm a percentage of the reported value), numerical ranges (low to high), or any other means considered appropriate by the laboratory.

- c. Sample results less than the laboratory's MDL shall be reported as "Not Detected," or ND.
 - d. Dischargers are to instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the Discharger to use analytical data derived from *extrapolation* beyond the lowest point of the calibration curve.
6. The Discharger shall submit SMRs in accordance with the following requirements:
- a. Data Summary Tables: The Discharger shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations. The Discharger is not required to duplicate the submittal of data that is entered in a tabular format within CIWQS. When electronic submittal of data is required and CIWQS does not provide for entry into a tabular format within the system, the Discharger shall electronically submit the data in a tabular format as an attachment.
 - b. Cover letter and Summary of Non-Compliance: The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the WDRs; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation.

C. Discharge Monitoring Reports (DMRs) (Not Applicable)

D. Other Reports (Not Applicable)

E. Notification

1. The Discharger shall notify the Executive Officer in writing prior to discharge of any chemical that may be toxic to aquatic life. Such notification shall include:
 - a. Name and general composition of the chemical,
 - b. Frequency of use,
 - c. Quantities to be used,
 - d. Proposed discharge concentrations, and,
 - e. EPA registration number, if applicable.

No discharge of such chemical shall be made prior to obtaining the Executive Officer's approval.

2. The Discharger shall notify the Regional Board via telephone by calling Namiraj Jain at (213) 620-6003 and/or email to njain@waterboards.ca.gov within 24 hours of noticing an exceedance above the effluent limits in Order No. R4-2013-0043. The Discharger shall provide to the Regional Board within 14 days of observing the exceedance a detailed statement of the actions undertaken or proposed that will bring the discharge into full compliance with the requirements and submit a timetable for correction.

X. MONITORING FREQUENCIES ADJUSTMENT

Monitoring frequencies may be adjusted by the Executive Officer to a less frequent basis if the Discharger makes a request and the request is backed by statistical trends of monitoring data submitted.