

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

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**ORDER NO. R3-2016-0035
NPDES NO. CAG993002**

**WASTE DISCHARGE REQUIREMENTS
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR
DISCHARGES OF HIGHLY TREATED GROUNDWATER TO SURFACE WATERS**

Dischargers are subject to waste discharge requirements as set forth in this Order.

Table 1. Discharger Information

| | |
|-----------------------------|--|
| Discharger Types | Any person, partnership, firm, corporation, association, trust estate, or any other legal entity. |
| Facility Address | Locations throughout the Central Coast Region. |
| Facility Types | Groundwater extraction and treatment operations at any active or inactive leak and spill cleanup sites. |
| Waste Types | Petroleum or other chemicals, such as perchlorate or chlorinated solvents, which were discharged from underground storage tanks (USTs), dry cleaners, oil field operations, or other industrial operations. Wastes may be generated by aquifer pumping tests; dual-phase extraction or other remedial pilot tests; excavation dewatering; and pumping to contain groundwater plumes. |
| Discharge Flow Rates | These discharges may be treated and discharged on either continuous or batch bases. Discharge flow rates must comply with the rates specified in this Order and may not exceed 0.2 million gallons per day (MGD) for continuous discharges or 0.25 MGD for batch discharges up to 30 days. |

Discharges to the discharge locations identified below are subject to waste discharge requirements as set forth in this Order.

Table 2. Discharge Locations

| Discharge Point(s) | Effluent Description | Discharge Point Latitude | Discharge Point Longitude | Discharge Point Description |
|---------------------------|-----------------------------|---------------------------------|----------------------------------|------------------------------------|
| 001 | Highly Treated Groundwater | Varies per discharge | Varies per discharge | Varies per discharge |

Table 3. Administrative Information

| | |
|--|------------------|
| This Order was adopted on: | December 8, 2016 |
| This Order shall become effective on: | January 29, 2017 |
| This Order shall expire on: | January 28, 2022 |
| The U.S. Environmental Protection Agency (U.S. EPA) and the California Regional Water Quality Control Board, Central Coast Region have classified this discharge as follows: | Minor discharge |

I, John M. Robertson, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Central Coast Region on the date indicated above.

John M. Robertson Digitally signed by John M. Robertson
Date: 2016.12.14 08:38:59 -08'00'

John M. Robertson, Executive Officer

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I. FACILITY INFORMATION

Information describing the types of facility enrolled in this general permit is summarized in Table 1 and in sections I and II of the Fact Sheet (Attachment F).

II. FINDINGS

The California Regional Water Quality Control Board, Central Coast Region (Central Coast Water Board) finds:

- A. Legal Authorities.** This Order serves as waste discharge requirements (WDRs) pursuant to article 4, chapter 4, division 7 of the California Water Code (commencing with section 13260). This Order is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. EPA and chapter 5.5, division 7 of the Water Code (commencing with section 13370). It shall serve as a National Pollutant Discharge Elimination System (NPDES) permit authorizing Dischargers to discharge into waters of the United States at various discharge locations throughout the Central Coast Region subject to the WDRs in this Order.
- B. Background and Rationale for Requirements.** The Central Coast Water Board developed the requirements in this Order based on information submitted as part of numerous applications, through monitoring and reporting programs, and other available information. The Fact Sheet (Attachment F), which contains background information and rationale for the requirements in this Order, is hereby incorporated into and constitutes Findings for this Order. Attachments A through E are also incorporated into this Order.
- C. Provisions and Requirements Implementing State Law.** The provisions/requirements in subsections IV.B, IV.C, and V.B are included to implement state law only. These provisions/requirements are not required or authorized under the federal CWA; consequently, violations of these provisions/requirements are not subject to the enforcement remedies that are available for NPDES violations.
- D. Notification of Interested Parties.** The Central Coast Water Board has notified Dischargers currently enrolled in Order No. R3-2011-0222 and interested agencies and persons of its intent to prescribe WDRs for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of the notification are provided in the Fact Sheet.
- E. Consideration of Public Comment.** The Central Coast Water Board, in a public meeting, heard and considered all comments pertaining to the discharge. Details of the Public Hearing are provided in the Fact Sheet.

THEREFORE, IT IS HEREBY ORDERED that Order No. R3-2011-222 is rescinded upon the effective date of this Order except for enforcement purposes, and, in order to meet the provisions contained in division 7 of the Water Code (commencing with section 13000) and regulations adopted thereunder and the provisions of the CWA and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements in this Order. This action in no way prevents the Central Coast Water Board from taking enforcement action for past violations of the previous Order.

III. DISCHARGE PROHIBITIONS

- A.** The discharge of any radiological, chemical, or biological warfare agent into the waters of the state is prohibited under Water Code Section 13375.
- B.** The discharge of any waste at a location or in a manner different from that described in the approved NOI or regulated by this General Permit is prohibited.

- C. In accordance with State Water Board Resolution No. 68-16 (Anti-Degradation Policy), the discharge shall not contain pollutants that will degrade receiving water quality.
- D. Discharge containing concentrations of pollutants in excess of applicable water quality objectives as stated in the Basin Plan, Table 4 and Table 5 is prohibited.
- E. Discharge of waste creating conditions of pollution or nuisance as defined in Sections 13050(l) and 13050(m) of Division 7 of the California Water Code is prohibited.
- F. Discharge containing any substances in concentrations toxic to human, animal, plant, or aquatic life is prohibited.^A
- G. Discharge to an Area of Special Biological Significance, unless in compliance with the California Ocean Plan, is prohibited.
- H. Discharge to the Monterey Bay National Marine Sanctuary (Sanctuary) is prohibited unless the Sanctuary authorizes the discharge.
- I. The discharge shall cause no scouring or erosion at the point where it discharges into the receiving waters.

IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

A. Effluent Limitations – Discharge Point E-001

1. Final Effluent Limitations – Discharge Point E-001

- a. The Discharger shall maintain compliance with the following effluent limitations at Discharge Point E-001, with compliance measured at Monitoring Location E-1, as described in the Monitoring and Reporting Program, Attachment E:
- b. Effluent shall not have measurable total dissolved solids greater than surface water and groundwater quality objectives.
- c. Effluent shall be essentially free of substances that:
 - i. Float or become floatable upon discharge.
 - ii. May form sediments that degrade aquatic life.
 - iii. Accumulate to toxic levels in surface waters, sediments, or biota.
 - iv. Significantly decrease the natural light to aquatic life.
 - v. Result in aesthetically undesirable discoloration of the water surface.
- B. If the discharge qualifies for a categorical exception in accordance with the State Implementation Policy as stated in Finding No. D, then the discharge shall meet State Water Resources Control Board Maximum Contaminant Levels (MCLs) for drinking water for protection of human health.
- C. If the sampling for priority pollutants listed in 40 CFR 401.15 indicate the influent contains a priority pollutant above the corresponding effluent limitation, the discharge shall not exceed the corresponding effluent limitation for priority pollutants as listed in Table 4 below.
- D. If the discharge is to the ocean, the pollutant concentrations in the effluent shall not exceed the concentration limits, as calculated using water quality objectives in the Ocean Plan Table 1.

Methodology for calculating effluent concentration limits shall be performed according to the procedures identified in the Ocean Plan, which are incorporated into this permit by reference.

E. Table 4 – Compound-Specific Effluent Limitations

| Chemical Constituent | CAS Number | Basis | Inland Surface Waters, Enclosed Bays, and Estuaries Criteria (µg/L or noted) | Ocean Discharge Criteria (µg/L or noted) | Acceptable Analytical Methods ^B |
|----------------------------|------------|---|--|--|--|
| VOLATILE ORGANICS | | | | | |
| 1,1 Dichloroethane | 75343 | Primary MCL | 5 | -- | GC, GCMS |
| 1,1 Dichloroethene | 75354 | California Toxics Rule, Ocean Plan | 0.057 | 0.9 | GC |
| 1,1,1 Trichloroethane | 71556 | Primary MCL, Ocean Plan | 200 | 540,000 | GC, GCMS |
| 1,1,2 Trichloroethane | 79005 | California Toxics Rule, Ocean Plan | 0.6 | 9.4 | GC |
| 1,1,2,2 Tetrachloroethane | 79345 | California Toxics Rule, Ocean Plan | 0.17 | 2.3 | GC |
| 1,2 Dichlorobenzene | 95501 | Secondary MCL, Ocean Plan | 10 | 5,100 ^A | GC, GCMS |
| 1,2 Dichloroethane | 107062 | California Toxics Rule, Ocean Plan | 0.38 | 28 | GC |
| 1,2 Dichloropropane | 78875 | California Toxics Rule | 0.52 | -- | GC |
| 1,3 Dichlorobenzene | 541731 | California Toxics Rule, Ocean Plan | 400 | 5,100 ^A | GC, GCMS |
| 1,3 Dichloropropene | 542756 | Primary MCL, Ocean Plan | 0.5 | 8.9 | GC, GCMS |
| 1,4 Dichlorobenzene | 106467 | Primary MCL, Ocean Plan | 5 | 18 | GC, GCMS |
| Acrolein | 107028 | National Ambient Water Quality Criteria, Ocean Plan | 21 | 220 | GC, GCMS |
| Acrylonitrile | 107131 | California Toxics Rule, Ocean Plan | 0.059 | 0.10 | GC, GCMS |
| Benzene | 71432 | Primary MCL, Ocean Plan | 1 | 5.9 | GC |
| Bromoform | 75252 | California Toxics Rule, Ocean Plan | 4.3 | 130 ^A | GC, GCMS |
| Methyl Bromide | 74839 | California Toxics Rule, Ocean Plan | 48 | 130 ^A | GC, GCMS |
| Carbon Tetrachloride | 56235 | California Toxics Rule, Ocean Plan | 0.25 | 0.90 | GC |
| Chlorobenzene | 108097 | Primary MCL, Ocean Plan | 70 | 570 | GC, GCMS |
| Chlorodibromomethane | 124481 | California Toxics Rule, Ocean Plan | 0.401 | 8.6 | GC |
| Chloroethane | 75003 | Primary MCL | 300 | -- | GC, GCMS |
| 2-Chloroethyl vinyl ether | 110758 | No Criteria Available | -- | -- | GC, GCMS |
| Chloroform | 67663 | National Toxics Rule, Ocean Plan | 5.7 | 130 | GC, GCMS |
| Chloromethane | 74873 | USEPA Health Advisory, Ocean Plan | 3 | 130 ^A | GC, GCMS |
| Dichlorobromo-methane | 75274 | California Toxics Rule, Ocean Plan | 0.56 | 6.2 | GC |
| Dichloromethane | 75092 | California Toxics Rule, Ocean Plan | 4.7 | 450 | GC, GCMS |
| Ethylbenzene | 100414 | Primary MCL, Ocean Plan | 300 | 4,100 | GC, GCMS |
| Tetrachloroethene | 127184 | California Toxics Rule, Ocean Plan | 0.8 | 2.0 | GC |
| Toluene | 108883 | Primary MCL, Ocean Plan | 150 | 85,000 | GC, GCMS |
| Trans-1,2 Dichloroethylene | 156605 | Primary MCL | 10 | -- | GC |
| Trichloroethene | 79016 | California Toxics Rule, Ocean Plan | 2.7 | 27 | GC, GCMS |
| Vinyl Chloride | 75014 | Primary MCL, Ocean Plan | 0.5 | 36 | GC, GCMS |

| Chemical Constituent | CAS Number | Basis | Inland Surface Waters, Enclosed Bays, and Estuaries Criteria (µg/L or noted) | Ocean Discharge Criteria (µg/L or noted) | Acceptable Analytical Methods ^B |
|----------------------------------|------------|---|--|--|--|
| Xylenes (total) | | Primary MCL, Ocean Plan | 1,750 | 1.750 | GC, GCMS |
| SEMI VOLATILES | | | | | |
| 1,2 Benzantracene | 56553 | California Toxics Rule, Ocean Plan | 0.0044 | 0.0088 ^A | GCMS |
| 1,2 Diphenylhydrazine | 122667 | California Toxics Rule, Ocean Plan | 0.04 | 0.16 | GCMS |
| 1,2,4 Trichlorobenzene | 120821 | Public Health Goal | 5 | -- | GC, GCMS |
| 2 Chlorophenol | 95578 | California Toxics Rule | 120 | -- | GC, GCMS |
| 2,4 Dichlorophenol | 120832 | California Toxics Rule | 93 | -- | GC, GCMS |
| 2,4 Dimethylphenol | 105679 | CA Notification Level (DHS) | 100 | -- | GC, GCMS |
| 2,4 Dinitrophenol | 51285 | California Toxics Rule, Ocean Plan | 70 | 4.0 | GC, GCMS |
| 2,4 Dinitrotoluene | 121142 | California Toxics Rule, Ocean Plan | 0.11 | 2.6 | GCMS |
| 2,4,6 Trichlorophenol | 88062 | California Toxics Rule, Ocean Plan | 2.1 | 0.29 | GC, GCMS |
| 2,6 Dinitrotoluene | 606202 | National Ambient Water Quality Criteria | 230 | --- | GCMS |
| 2-Nitrophenol | 25154557 | National Ambient Water Quality Criteria | 150 ^{C2} | -- | GCMS |
| 2- Chloronaphthalene | 91587 | National Ambient Water Quality Criteria | 1600 ^{C3} / 7.5 ^F | -- | GCMS |
| 3,3' Dichlorobenzidine | 91941 | California Toxics Rule, Ocean Plan | 0.04 | 0.0081 | GCMS |
| 3,4 Benzofluoranthene | 205992 | California Toxics Rule, Ocean Plan | 0.0044 | 0.0088 ^A | GCMS, LC |
| 4 Chloro-3-methylphenol | 59507 | National Ambient Water Quality Criteria | 30 | -- | GC, GCMS |
| 4,6 Dinitro-2-methylphenol | 534521 | National Ambient Water Quality Criteria, Ocean Plan | 13.4 | 220 | GCMS |
| 4-Nitrophenol | 100027 | National Ambient Water Quality Criteria | 150 | -- | GC, GCMS |
| 4-Bromophenyl phenyl ether | 101553 | National Ambient Water Quality Criteria | 122 ^{C1} | -- | GC, GCMS |
| 4-Chlorophenyl phenyl ether | 7005723 | National Ambient Water Quality Criteria | 122 ^{C1} | -- | GCMS |
| Acenaphthene | 83329 | National Ambient Water Quality Criteria | 520 / 500 ^F | -- | GC, GCMS, LC |
| Acenaphthylene | 208968 | National Ambient Water Quality Criteria, Ocean Plan | 300 ^F | 0.0088 ^A | GCMS, LC |
| Anthracene | 120127 | California Toxics Rule, Ocean Plan | 9600 | 0.0088 ^A | GCMS, LC |
| Benzidine | 92875 | California Toxics Rule, Ocean Plan | 0.00012 | 6.9 x 10 ⁻⁵ | GCMS |
| Benzo(a)pyrene (3,4 Benzopyrene) | 50328 | California Toxics Rule, Ocean Plan | 0.0044 | 0.0088 ^A | LC |
| Benzo(g,h,i)perylene | 191242 | National Ambient Water Quality Criteria, Ocean Plan | 300 ^F | 0.0088 ^A | GCMS, LC |
| Benzo(k)fluoranthene | 207089 | California Toxics Rule, Ocean Plan | 0.0044 | 0.0088 ^A | LC |
| Bis (2-Chloroethoxyl) methane | 111911 | No Criteria Available, Ocean Plan | -- | 4.4 | GCMS |
| Bis(2-chloroethyl) ether | 111444 | California Toxics Rule, Ocean Plan | 0.031 | 0.045 | GCMS |
| Bis(2-chloroisopropyl) ether | 39638329 | National Ambient Water Quality Criteria, Ocean Plan | 122 ^{C1} | 1,200 | GC, GCMS |
| Bis(2-Ethylhexyl) phthalate | 117817 | California Toxics Rule, Ocean Plan | 1.8 | 3.5 | GCMS |
| Butyl benzyl phthalate | 85687 | Basin Plan | 2 ^{C4} | -- | GC, GCMS |
| Chlorine Residual, Total | -- | Ocean Plan | -- | 60 | COLOR |

| Chemical Constituent | CAS Number | Basis | Inland Surface Waters, Enclosed Bays, and Estuaries Criteria (µg/L or noted) | Ocean Discharge Criteria (µg/L or noted) | Acceptable Analytical Methods ^B |
|---|------------|---|--|--|--|
| Chrysene | 218019 | California Toxics Rule, Ocean Plan | 0.0044 | 0.0088 ^A | LC |
| Di-n-butylphthalate | 84742 | Basin Plan, Ocean Plan | 2 ^{C4} | 3,500 | GCMS |
| Di-n-octylphthalate | 117840 | Basin Plan | 2 ^{C4} | -- | GCMS |
| Dibenzo(a,h)-anthracene | 53703 | California Toxics Rule, Ocean Plan | 0.0044 | 0.0088 ^A | LC |
| Diethyl phthalate | 84662 | Basin Plan, Ocean Plan | 2 ^{C4} | 33,000 | GC, GCMS |
| Dimethyl phthalate | 131113 | Basin Plan, Ocean Plan | 2 ^{C4} | 820,000 | GC, GCMS |
| Fluoranthene | 206440 | California Toxics Rule, Ocean Plan | 300 | 15 | GC, GCMS, LC |
| Fluorene | 86737 | California Toxics Rule, Ocean Plan | 1300 | 0.0088 ^A | GCMS, LC |
| Hexachlorocyclopentadiene | 77474 | National Ambient Water Quality Criteria, Ocean Plan | 5.2 | 58 | GC, GCMS |
| Hexachlorobenzene | 118741 | California Toxics Rule, Ocean Plan | 0.00075 | 2.1 x 10 ⁻⁴ | GCMS |
| Hexachlorobutadiene | 87683 | California Toxics Rule, Ocean Plan | 0.44 | 14 | GCMS |
| Hexachloroethane | 67721 | California Toxics Rule, Ocean Plan | 1.9 | 2.5 | GCMS |
| Indeno(1,2,3-cd)pyrene | 193395 | California Toxics Rule, Ocean Plan | 0.0044 | 0.0088 ^A | LC |
| Isophorone | 78591 | California Toxics Rule, Ocean Plan | 8.4 | 730 | GCMS |
| N-Nitrosodiphenylamine | 86306 | California Toxics Rule, Ocean Plan | 5 | 2.5 | GCMS |
| N-Nitrosodimethylamine | 62759 | California Toxics Rule, Ocean Plan | 0.00069 | 7.3 | GCMS |
| N-Nitrosodi-n-propylamine | 621647 | California Toxics Rule, Ocean Plan | 0.005 | 0.38 | GCMS |
| Naphthalene | 91203 | Taste and Odor | 21 | -- | GC, GCMS, LC |
| Nitrobenzene | 98953 | California Toxics Rule, Ocean Plan | 17 | 4.9 | GC, GCMS |
| Pentachlorophenol | 87865 | California Toxics Rule | 0.28 | -- | GC |
| Phenanthrene | 85108 | National Ambient Water Quality Criteria, Ocean Plan | 300 ^{C5,F} | 0.0088 ^A | GCMS, LC |
| Phenol | 108352 | Basin Plan | 1 | -- | GC, GCMS, COLOR |
| Pyrene | 129000 | California Toxics Rule, Ocean Plan | 960 | 0.0088 ^A | GCMS, LC |
| OTHER COMPOUNDS | | | | | |
| Methyl tertiary butyl ether (MTBE) | | California Secondary MCL | 5.0 | 5.0 | GC, GCMS |
| Total Petroleum Hydrocarbons (TPH as diesel or as gasoline) | --- | Taste and Odor | 50 | 50 | GC, GCMS |
| Tertiary butyl alcohol | | California Drinking Water Notification Level | 12.0 | 12.0 | GC, GCMS |
| Perchlorate | | California Primary MCL | 6.0 | 6.0 | GC, GCMS |
| PESTICIDES | | | | | |
| 2,4'-DDT | -- | Ocean Plan | -- | 1.7 x 10 ^{-4A} | GC |
| 2,4'-DDE | -- | Ocean Plan | -- | 1.7 x 10 ^{-4A} | GC |
| 2,4'-DDD | -- | Ocean Plan | -- | 1.7 x 10 ^{-4A} | GC |
| 4,4'-DDD | 72548 | California Toxics Rule, | 0.00083 | 1.7 x 10 ^{-4A} | GC |
| 4,4'-DDE | 72559 | California Toxics Rule, Ocean Plan | 0.00059 | 1.7 x 10 ^{-4A} | GC |

| Chemical Constituent | CAS Number | Basis | Inland Surface Waters, Enclosed Bays, and Estuaries Criteria (µg/L or noted) | Ocean Discharge Criteria (µg/L or noted) | Acceptable Analytical Methods ^B |
|-----------------------|------------|---|--|--|--|
| 4,4'-DDT | 50293 | California Toxics Rule, Ocean Plan | 0.00059 | 1.7 x 10 ⁻⁴ ^A | GC |
| alpha-Endosulfan | 959988 | California Toxics Rule, Ocean Plan | 0.056 ^{C6} / 0.0087 ^{C6,F} | 0.027 ^A | GC |
| alpha-BHC | 319846 | California Toxics Rule, Ocean Plan | 0.0039 | 0.012 ^A | GC |
| Aldrin | 309002 | California Toxics Rule, Ocean Plan | 0.00013 | 2.2 x 10 ⁻⁵ | GC |
| beta-Endosulfan | 33213659 | California Toxics Rule, Ocean Plan | 0.056 ^{C6} / 0.0087 ^{C6,F} | 0.027 ^A | GC |
| beta-BHC | 319857 | California Toxics Rule, Ocean Plan | 0.014 | 0.012 ^A | GC |
| Chlordane | 57749 | CA Toxics Rule, Ocean Plan | 0.00057 | 2.3 x 10 ⁻⁵ | GC |
| delta-BHC | 319868 | Ocean Plan | -- | 0.012 ^A | GC |
| Dieldrin | 60571 | California Toxics Rule, Ocean Plan | 0.00014 | 4.0 x 10 ⁻⁵ | GC |
| Endosulfan Sulfate | 1031078 | National Ambient Water Quality Criteria, Ocean Plan | 0.056 / 0.0087 ^F | 0.009 ^A | GC |
| Endrin | 72208 | California Toxics Rule, Ocean Plan | 0.036 / 0.0023 ^F | 0.002 | GC |
| Endrin Aldehyde | 7421934 | California Toxics Rule | 0.76 | -- | GC |
| Heptachlor | 76448 | California Toxics Rule, Ocean Plan | 0.00021 | 5 x 10 ⁻⁵ | GC |
| Heptachlor Epoxide | 1024573 | California Toxics Rule, Ocean Plan | 0.0001 | 2 x 10 ⁻⁵ | GC |
| Lindane (gamma-BHC) | 58899 | California Toxics Rule, Ocean Plan | 0.019 | 0.012 ^A | GC |
| Aroclor 1016 | 12674112 | California Toxics Rule, Ocean Plan | 0.0001 ^{C7} | 1.9 x 10 ⁻⁵ ^A | GC |
| Aroclor 1221 | 11104282 | California Toxics Rule, Ocean Plan | 0.00017 ^{C7} | 1.9 x 10 ⁻⁴ ^A | GC |
| Aroclor 1232 | 11141165 | California Toxics Rule, Ocean Plan | 0.00017 ^{C7} | 1.9 x 10 ⁻⁴ ^A | GC |
| Aroclor 1242 | 53469219 | California Toxics Rule, Ocean Plan | 0.00017 ^{C7} | 1.9 x 10 ⁻⁴ ^A | GC |
| Aroclor 1248 | 12672296 | California Toxics Rule, Ocean Plan | 0.00017 ^{C7} | 1.9 x 10 ⁻⁴ ^A | GC |
| Aroclor 1254 | 11097691 | California Toxics Rule, Ocean Plan | 0.00017 ^{C7} | 1.9 x 10 ⁻⁴ ^A | GC |
| Aroclor 1260 | 11096825 | California Toxics Rule, Ocean Plan | 0.00017 ^{C7} | 1.9 x 10 ⁻⁴ ^A | GC |
| Toxaphene | 8001352 | California Toxics Rule, Ocean Plan | 0.0002 | 2.1 x 10 ⁻⁴ | GC |
| 2,3,7,8-TCDD (Dioxin) | 1746016 | California Toxics Rule | 1.30E-08 | -- | GC |
| INORGANICS | | | | | |
| Ammonia as N | 7664417 | Ocean Plan | -- | 600 | -- |
| Antimony | 7440360 | Primary MCL, Ocean Plan | 6 | 1,200 | FAA, GFAA, ICPMS, SPGFAA, HYDRIDE |
| Arsenic | 7440382 | National Toxics Rule, Ocean Plan | 0.018 | 8 | GFAA, ICP, ICPMS, SPGFAA |
| Asbestos | 1332214 | California Toxics Rule | 7 MFL ^D | -- | TEM |
| Beryllium | 7440417 | Primary MCL, Ocean Plan | 4 | 0.033 | FAA, GFAA, ICP, ICPMS, SPGFAA, DCP |
| Cadmium | 7440439 | National Toxics Rule, Basin Plan, Ocean Plan | 1 ^G / 0.2 ^E | 1 | GFAA, ICPMS, |

| Chemical Constituent | CAS Number | Basis | Inland Surface Waters, Enclosed Bays, and Estuaries Criteria (µg/L or noted) | Ocean Discharge Criteria (µg/L or noted) | Acceptable Analytical Methods ^B |
|-------------------------------|------------|--|--|--|--|
| | | | | | SPGFAA |
| Chromium III | 7440473 | Primary MCL, Ocean Plan | 50 ^H | 190,000 | FAA, GFAA, ICP, ICPMS, SPGFAA |
| Chromium VI | 18540299 | National Toxics Rule, Ocean Plan | 10 | 2 | FAA, COLOR |
| Copper | 7440508 | California Toxics Rule, National Toxics Rule, Ocean Plan | 9 ^G / 2.4 ^{F,G} | 3 | GFAA, ICPMS, SPGFAA |
| Cyanide | 57125 | CA Toxics Rule, Ocean Plan | 5.2 ^G / 1 ^{F,G} | 10 | COLOR |
| Lead | 7439921 | California Toxics Rule, Ocean Plan | 2.5 ^G | 2 | ICPMS, SPGFAA |
| Mercury | 7439976 | National Toxics Rule, Ocean Plan | 0.012 | 0.04 | CVAA |
| Nickel | 7440020 | California Toxics Rule, Basin Plan, Ocean Plan | 52 ^G / 2 ^{E1} | 5 | FAA, GFAA, ICP, ICPMS, SPGFAA |
| Selenium | 7782492 | California Toxics Rule, Ocean Plan | 5 | 15 | GFAA, ICPMS, SPGFAA, HYDRIDE |
| Silver | 7440224 | California Toxics Rule, Ocean Plan | 3.4 ^G / 1.9 ^{F,G} | 0.7 | GFAA, ICPMS, SPGFAA |
| Thallium | 7440280 | California Toxics Rule, Ocean Plan | 1.7 | 2 | ICPMS |
| Zinc | 7440666 | National Toxics Rule, Basin Plan, Ocean Plan | 100 ^G / 20 ^E | 20 | FAA, ICP, ICPMS, SPGFAA |
| OTHER PARAMETERS | | | | | |
| Acute Toxicity | -- | Ocean Plan | -- | 0.3 | TUa |
| Chronic Toxicity | -- | Ocean Plan | -- | 1 | Tuc |
| Phenolic Compounds | -- | Ocean Plan | -- | 30 | µg/L |
| Chlorinated Phenolics | -- | Ocean Plan | -- | 1 | µg/L |
| Tributyltin | 688733 | Ocean Plan | -- | 0.0014 | µg/L |
| TCDD Equivalents ^I | -- | Ocean Plan | -- | 3.9 x 10 ⁻⁹ | µg/L |

Notes:

A. Constituent Criteria shall mean the sum of:

| Constituent | Criteria is Sum of Constituents |
|------------------|---|
| dichlorobenzenes | 1,2 Dichlorobenzene and 1,3 Dichlorobenzene |
| halomethanes | Bromoform, Methyl Bromide, Chloromethane |
| PAHs | 1,2 Benzantracene, 3,4 Benzofluoranthene, Acenaphthylene, Anthracene, Benzo(a)pyrene (3,4 Benzopyrene), Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)-anthracene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene |
| DDT | 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, 2,4-DDT, 2,4-DDE, 2,4-DDD |
| Endosulfan | alpha-Endosulfan, beta-Endosulfan, Endosulfan Sulfate |
| HCH | alpha, beta, gamma (lindane) and delta isomers of hexachlorocyclohexane |
| PCBs | Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260 |

B. For each constituent the Discharger may select one of the indicated analytical methods, which are described in 40 CFR 136.3. The abbreviations refer to the following:

1. GC Gas Chromatography
2. GCMS Gas Chromatography/Mass Spectrometry
3. LC High Pressure Liquid Chromatography
4. FAA Flame Atomic Absorption
5. GFAA Graphite Furnace Atomic Absorption
6. Hydride Gaseous Hydride Atomic Absorption
7. CVAA Cold Vapor Atomic Absorption

- 8. ICP.....Inductively Coupled Plasma
- 9. ICPMSInductively Coupled Plasma/Mass Spectrometry
- 10. SPGFAAStabilized Platform Graphite Furnace Atomic Absorption
- 11. DCPDirect Current Plasma
- 12. TEMTransmission Electron Microscopy
- 13. COLORColorimetric

- C. Indicate a regulatory decision that the cited concentration is either necessary or sufficient for full protection of beneficial uses or indicate meaning of uncommon acronyms
 - C¹ – For haloethers
 - C² – For nitrophenols
 - C³ – For chlorinated naphthalenes
 - C⁴ – For phthalate esters
 - C⁵ – For polynuclear aromatic hydrocarbons
 - C⁶ – Criteria for sum of alpha and beta forms
 - C⁷ – Criteria for sums of all PCBs
- D. MFL is defined as Million Fibers per Liter in the measurement of asbestos in water (EPA Method 600/R-93/116). Its detection limits are at 0.2 MFL of length greater than 10 microns
- E. Criteria for protection of Marine Habitat Beneficial Use (CCWB’s Basin Plan)
 - E¹ – value cited as objective pertains to nickel salts (not pure metallic nickel)
- F. Criteria only applies to discharges to saltwater inland surface waters, enclosed bays, and estuaries.
- G. Criteria values for metals are expressed as a function of a total hardness of 100 mg/L
- H. For total Chromium
- I. See “TCDD Equivalents” definition in Ocean Plan 2015

F. Table 5. Ocean Plan Effluent Limitations¹

| Parameter | Units | Effluent Limitations | | |
|-------------------------------|----------------|---|----------------|-----------------|
| | | Average Monthly | Average Weekly | Max at any time |
| Grease and Oil | mg/L | 25 | 40 | 75 |
| Suspended Solids ⁺ | | | + | |
| Settleable Solids | mL/L | 1.0 | 1.5 | 3.0 |
| Turbidity | NTU | 75 | 100 | 225 |
| pH | Standard Units | Within limit of 6.0 to 9.0 at all times | | |

Footnotes:

¹Ocean Plan Table 2 (formerly Table A) Notes:

- A) Effluent limitations shall apply to a discharger’s total effluent of whatever origin (i.e, gross, not net, discharge), except where otherwise specified in this Order.
- B) Table 2 effluent limitations shall apply to a discharger’s total effluent, of whatever origin (i.e., gross, not net, discharge), except where otherwise specified in the Ocean Plan.
- C) The State Water Board is authorized to administer and enforce effluent limitations established pursuant to the Federal Clean Water Act. Effluent limitations established under sections 301, 302, 306, 307, 403, and 405 of the Act and administrative procedures with Table 2 effluent limitations, or EPA Effluent Limitations Guidelines for industrial discharges based on Best Practicable Control Technology, shall be the minimum level* of treatment acceptable under the Ocean Plan, and shall define reasonable treatment and waste control technology.
- D) Compliance with Table 2 effluent limitations for brine discharges from desalination facilities that commingle brine and wastewater prior to discharge to the ocean may be measured after the brine has been comingled with wastewater, provided that the permittee for the comingled discharge accepts responsibility for any exceedances of the Table 2 effluent limitations.

⁺ Suspended Solids: Dischargers shall, as a 30-day average, remove 75% of suspended solids from the influent stream before discharging wastewaters to the ocean, except that the effluent limitation to be met shall not be lower than 60 mg/L. If the lower effluent concentration is adjusted, the discharger shall remove 75% of suspended solids from the influent stream at any time the influent concentration exceeds four times such adjusted effluent limit.

^A See Basin Plan 2015 for surface water quality objectives.

Table 6 (formerly TABLE C) – Background Seawater Concentrations (Cs)

| Waste Constituent | Cs (ug/L) |
|-------------------|-----------|
| Arsenic | 3.0 |
| Copper | 2.0 |
| Mercury | 0.0005 |
| Silver | 0.16 |
| Zinc | 0.8 |

Note – for all other Table 1 parameters, Cs = 0.

V. RECEIVING WATER LIMITATIONS

A. Surface Water Limitations

The following narrative water quality objectives apply to all surface waters, including wetlands, in the Central Coast Region^A. (^AReceiving water quality is a result of many factors, some unrelated to the discharge. This permit considers these factors, and is designed to minimize the influence of the discharge in the receiving water.)

1. The discharge shall not cause the receiving water to exceed the following^A:

| Constituent | Maximum or Range |
|--------------------|---|
| pH | Between 7.0 and 8.3 at all times, and not changed more than 0.5 units. ^A |
| Temperature | Maximum increase of 5°F above natural receiving water temperature. ^A |
| Color | Maximum increase of 15 units, or 10% above natural background color, whichever is greater. ^A |

2. Turbidity to exceed the following:

| | |
|---|---|
| Where “natural turbidity” ^B : is: | The turbidity shall not be increased more than... |
| less than 25 Nephelometric Turbidity Units (NTUs) | 5 NTUs |
| between 25 and 50 NTUs | 20% |
| between 50 and 100 NTUs | 10 NTU's |
| greater than 100 NTU's | 10% |

^B Natural turbidity shall be determined from receiving water samples taken upstream of the discharge point at a location free from controllable sources of pollution.

- Dissolved Oxygen** – Dissolved oxygen concentrations to be depressed below 7.0 mg/L or median values to fall below 85% of saturation.
- Biostimulatory Substances** – Biostimulatory substances in concentrations that promote aquatic growths causing nuisance or adversely affecting beneficial uses.
- Taste and Odor** – Taste or odor-producing substances in concentrations imparting undesirable tastes or odors to fish flesh or other edible products of aquatic origin, causing nuisance, or adversely affecting beneficial uses.

6. **Oil and Grease** – Oils, greases, waxes, or other similar materials in concentrations resulting in a visible film or floating on the surface of the water or on objects in the water, causing nuisance, or otherwise adversely affecting beneficial uses.
7. **Settleable Materials** – Settleable material in concentrations resulting in the deposition of material causing nuisance or adversely affecting beneficial uses.
8. **Floating Materials** – Floating material, including solids, liquids, foams, and scum, in concentrations causing nuisance or adversely affecting beneficial uses.
9. **Suspended Materials** – Suspended material in concentrations causing nuisance or adversely affecting beneficial uses.
10. **Toxicity** – Substances in concentrations toxic to human, plant, animal, or aquatic life, or produce detrimental physiological responses therein.
11. **Radioactivity** – Radionuclides in concentrations deleterious to human, plant, animal or aquatic life; or that result in the accumulation of radionuclides in the food web to an extent presenting a hazard to human, plant, animal or aquatic life.
12. **An Excursion Above Any Water Quality Standard** –The discharge shall not (a) cause, (b) have a reasonable potential to cause, or (c) contribute to an excursion above any applicable criterion or water quality objective for the receiving waters adopted by the Central Coast Water Board or the State Water Board or promulgated by USEPA pursuant to Section 303 of the CWA. However, a discharge that has reasonable potential to cause or contribute to an excursion above water quality objectives is not prohibited if the discharge is subject to and meets effluent limitations set forth above for all pollutants with reasonable potential.

B. Groundwater Limitations

1. The discharge shall not cause constituent concentrations in groundwater down-gradient of the disposal area to exceed water quality objectives specified under II.A.4 and II.A.5.
2. The discharge shall not cause constituent concentrations in groundwater to exceed primary and secondary drinking water limits set forth in Title 22 of the California Code of Regulations.^A

F. SOLID WASTE DISPOSAL

1. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of in a manner consistent with Chapter 15, Division 3, Title 23, and Division 2 of Title 27 of the California Code of Regulations and approved by the Executive Officer.

VI. PROVISIONS

The Discharger shall comply with the following provisions. In the event that there is any conflict, duplication, or overlap between provisions specified by this Order, the more stringent provision shall apply:

A. Standard Provisions

The Discharger shall comply with the following provisions. In the event that there is any conflict, duplication, or overlap between provisions specified by this Order, the more stringent provision shall apply:

1. The Discharger shall comply with all Standard Provisions included in Attachment D.
2. The Discharger shall comply with all Central Coast Water Board specific Standard Provisions also included in Attachment D of this Order.

B. Monitoring and Reporting Program (MRP) Requirements

The Discharger shall comply with the MRP, and future revisions thereto, in Attachment E.

C. Special Provisions

1. Reopener Provisions

- a. This Order may be reopened for modification, or revocation and reissuance, as a result of the detection of a reportable priority pollutant generated by special conditions included in this Order. These special conditions may be, but are not limited to, fish tissue sampling, whole effluent toxicity, monitoring requirements on internal waste streams, and monitoring for surrogate parameters. Additional requirements may be included in this Order as a result of the special condition monitoring data.
- b. This Order may be reopened and modified in accordance with NPDES regulations at 40 C.F.R. parts 122 and 124, as necessary, to include additional conditions or limitations based on newly available information or to implement any U.S. EPA-approved, new state water quality objective.
- c. This Order may be reopened for modification to include an effluent limitation if monitoring establishes that the discharge causes, has the reasonable potential to cause, or contributes to an excursion above a California Ocean Plan Table 1 water quality objective.

2. Special Studies, Technical Reports and Additional Monitoring Requirements

- a. **Toxicity Reduction Requirements – not applicable**

3. Best Management Practices and Pollution Prevention

- a. **Pollutant Minimization Program – Not applicable.**

VII. COMPLIANCE DETERMINATION

Compliance with the effluent limitations contained in Section IV of this Order will be determined as specified below:

A. General.

Compliance with effluent limitations for reportable pollutants shall be determined using sample reporting protocols defined in the MRP and Attachment A of this Order. For purposes of reporting and administrative enforcement by the Central Coast and State Water Boards, the Discharger shall be deemed out of compliance with effluent limitations if the concentration of the reportable pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported minimum level (ML).

B. Multiple Sample Data.

When determining compliance with a measure of central tendency (arithmetic mean, geometric mean, median, etc.) of multiple sample analyses and the data set contains one or

more reported determinations of DNQ or ND, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:

3. The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
4. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.

ATTACHMENT A – DEFINITIONS¹

Arithmetic Mean (μ)

Also called the average, is the sum of measured values divided by the number of samples. For ambient water concentrations, the arithmetic mean is calculated as follows:

$$\text{Arithmetic mean} = \mu = \Sigma x / n \quad \text{where: } \Sigma x \text{ is the sum of the measured ambient water concentrations, and } n \text{ is the number of samples.}$$

Average Monthly Effluent Limitation (AMEL)

The highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Effluent Limitation (AWEL)

The highest allowable average of daily discharges over a calendar week (Sunday through Saturday), calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Bioaccumulative

Those substances taken up by an organism from its surrounding medium through gill membranes, epithelial tissue, or from food and subsequently concentrated and retained in the body of the organism.

Carcinogenic

Pollutants are substances that are known to cause cancer in living organisms.

Coefficient of Variation (CV)

CV is a measure of the data variability and is calculated as the estimated standard deviation divided by the arithmetic mean of the observed values.

Daily Discharge

Daily Discharge is defined as either: (1) the total mass of the constituent discharged over the calendar day (12:00 am through 11:59 pm) or any 24-hour period that reasonably represents a calendar day for purposes of sampling (as specified in the permit), for a constituent with limitations expressed in units of mass or; (2) the unweighted arithmetic mean measurement of the constituent over the day for a constituent with limitations expressed in other units of measurement (e.g., concentration).

The daily discharge may be determined by the analytical results of a composite sample taken over the course of one day (a calendar day or other 24-hour period defined as a day) or by the arithmetic mean of analytical results from one or more grab samples taken over the course of the day.

For composite sampling, if 1 day is defined as a 24-hour period other than a calendar day, the analytical result for the 24-hour period will be considered as the result for the calendar day in which the 24-hour period ends.

Detected, but Not Quantified (DNQ)

DNQ are those sample results less than the RL, but greater than or equal to the laboratory's MDL. Sample results reported as DNQ are estimated concentrations.

¹Includes definitions not listed in the Standard Provisions, Appendix D.

Dilution Credit

Dilution Credit is the amount of dilution granted to a discharge in the calculation of a water quality-based effluent limitation, based on the allowance of a specified mixing zone. It is calculated from the dilution ratio or determined through conducting a mixing zone study or modeling of the discharge and receiving water.

Discharge Volume

Total effluent throughput occurring within a specific time frame.

Duly Authorized Representative

Is one whose authorization is made in writing by a principal executive officer or ranking elected official; or whose authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity. Examples of this individual or position include a general partner in a partnership, sole proprietor in a sole proprietorship, the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (A duly authorized representative may thus be either a named individual or any individual occupying a named position).

Effluent Concentration Allowance (ECA)

ECA is a value derived from the water quality criterion/objective, dilution credit, and ambient background concentration that is used, in conjunction with the coefficient of variation for the effluent monitoring data, to calculate a long-term average (LTA) discharge concentration. The ECA has the same meaning as wasteload allocation (WLA) as used in U.S. EPA guidance (Technical Support Document For Water Quality-based Toxics Control, March 1991, second printing, EPA/505/2-90-001).

Enclosed Bays

Enclosed Bays means indentations along the coast that enclose an area of oceanic water within distinct headlands or harbor works. Enclosed bays include all bays where the narrowest distance between the headlands or outermost harbor works is less than 75 percent of the greatest dimension of the enclosed portion of the bay. Enclosed bays include, but are not limited to, Humboldt Bay, Bodega Harbor, Tomales Bay, Drake's Estero, San Francisco Bay, Morro Bay, Los Angeles-Long Beach Harbor, Upper and Lower Newport Bay, Mission Bay, and San Diego Bay. Enclosed bays do not include inland surface waters or ocean waters.

Estimated Chemical Concentration

The estimated chemical concentration that results from the confirmed detection of the substance by the analytical method below the ML value.

Estuaries

Estuaries means waters, including coastal lagoons, located at the mouths of streams that serve as areas of mixing for fresh and ocean waters. Coastal lagoons and mouths of streams that are temporarily separated from the ocean by sandbars shall be considered estuaries. Estuarine waters shall be considered to extend from a bay or the open ocean to a point upstream where there is no significant mixing of fresh water and seawater. Estuarine waters included, but are not limited to, the Sacramento-San Joaquin Delta, as defined in Water Code section 12220, Suisun Bay, Carquinez Strait downstream to the Carquinez Bridge, and appropriate areas of the Smith, Mad, Eel, Noyo, Russian, Klamath, San Diego, and Otay rivers. Estuaries do not include inland surface waters or ocean waters.

Flow Rate

An estimated or accurate measurement of the average daily flow rate using supportable mass transfer calculations or property calibrated and maintained flow-measuring device.

Inland Surface Waters

All surface waters of the state that do not include the ocean, enclosed bays, or estuaries.

Instantaneous Maximum Effluent Limitation

The highest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous maximum limitation).

Instantaneous Minimum Effluent Limitation

The lowest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous minimum limitation).

Maximum Daily Effluent Limitation (MDEL)

The highest allowable daily discharge of a pollutant, over a calendar day (or 24-hour period). For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the arithmetic mean measurement of the pollutant over the day.

Median

The middle measurement in a set of data. The median of a set of data is found by first arranging the measurements in order of magnitude (either increasing or decreasing order). If the number of measurements (n) is odd, then the median = $X_{(n+1)/2}$. If n is even, then the median = $(X_{n/2} + X_{(n/2)+1})/2$ (i.e., the midpoint between the $n/2$ and $n/2+1$).

Method Detection Limit (MDL)

MDL is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, as defined in 40 C.F.R. part 136, Attachment B, revised as of July 3, 1999.

Minimum Level (ML)

ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

Mixing Zone

Mixing Zone is a limited volume of receiving water that is allocated for mixing with a wastewater discharge where water quality criteria can be exceeded without causing adverse effects to the overall water body.

Not Detected (ND)

Sample results which are less than the laboratory's MDL.

Persistent Pollutants

Persistent pollutants are substances for which degradation or decomposition in the environment is nonexistent or very slow.

Pollutant Minimization Program (PMP)

PMP means waste minimization and pollution prevention actions that include, but are not limited to, product substitution, waste stream recycling, alternative waste management methods, and education of the public and businesses. The goal of the PMP shall be to reduce all potential sources of a priority pollutant(s) through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality-based effluent limitation. Pollution prevention measures may be particularly appropriate for persistent bioaccumulative priority pollutants where there is evidence that beneficial uses are being impacted. The Central Coast Water Board may consider cost effectiveness when establishing the requirements of a PMP. The completion and implementation of a Pollution Prevention Plan, if required pursuant to Water Code section 13263.3(d), shall be considered to fulfill the PMP requirements.

Pollution Prevention

Pollution Prevention means any action that causes a net reduction in the use or generation of a hazardous substance or other pollutant that is discharged into water and includes, but is not limited to, input change, operational improvement, production process change, and product reformulation (as defined in Water Code section 13263.3). Pollution prevention does not include actions that merely shift a pollutant in wastewater from one environmental medium to another environmental medium, unless clear environmental benefits of such an approach are identified to the satisfaction of the State Water Resources Control Board (State Water Board) or Central Coast Water Board.

Reporting Level (RL)

The RL is the ML (and its associated analytical method) chosen by the Discharger for reporting and compliance determination from the MLs included in this Order, including an additional factor if applicable as discussed herein. The MLs included in this Order correspond to approved analytical methods for reporting a sample result that are selected by the Central Coast Water Board either from Appendix 4 of the SIP in accordance with section 2.4.2 of the SIP or established in accordance with section 2.4.3 of the SIP. The ML is based on the proper application of method-based analytical procedures for sample preparation and the absence of any matrix interferences. Other factors may be applied to the ML depending on the specific sample preparation steps employed. For example, the treatment typically applied in cases where there are matrix-effects is to dilute the sample or sample aliquot by a factor of ten. In such cases, this additional factor must be applied to the ML in the computation of the RL.

Source of Drinking Water

Any water designated as municipal or domestic supply (MUN) in a Central Coast Water Board Basin Plan.

Standard Deviation (σ)

Standard Deviation is a measure of variability that is calculated as follows:

$$\sigma = (\sum[(x - \mu)^2]/(n - 1))^{0.5}$$

where:

x is the observed value;

μ is the arithmetic mean of the observed values; and

n is the number of samples.

ATTACHMENT B – NOTICE OF INTENT

**TO COMPLY WITH THE TERMS OF THE
GENERAL PERMIT FOR DISCHARGES OF HIGHLY TREATED GROUNDWATER TO SURFACE WATERS
(NPDES PERMIT No. CAG993002, WDR ORDER No. R3-2016-0035)**

| | | | |
|-------------------------------|--|--|---|
| MARK ONLY ONE ITEM | 1. <input type="checkbox"/> Existing Discharger | 2. <input type="checkbox"/> New Discharger | 3. <input type="checkbox"/> Change of Information: WDID # _____ |
| | 4. <input type="checkbox"/> Change of ownership or responsibility: WDID# _____ | | |

I. FACILITY/SITE INFORMATION

| | | | |
|-----------------|--------|-----------------|--------|
| Facility Name: | | County: | |
| Street Address: | | Contact Person: | |
| City: | State: | Zip: | Phone: |
| Email Address: | | FAX: | |

II. OWNER/OPERATOR (if additional owners/operators are involved, provide the information in a supplemental page)

| | | | |
|------------------|--|------|--------|
| Name: | Owner/Operator Type (Check one): | | |
| Mailing Address: | <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Special District <input type="checkbox"/> Gov. Combo <input type="checkbox"/> Private | | |
| City: | State: | Zip: | Phone: |
| Contact Person: | <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner/Operator | | |
| Email Address: | FAX: | | |

Additional Owners: _____

III. BILLING ADDRESS (Enter information only if different from II - above)

| | | | |
|---|------------------|--------|------|
| Send to: <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> OTHER (Enter information at right) | Name: | | |
| | Mailing Address: | | |
| | City: | State: | Zip: |

IV. DISCHARGE INFORMATION

| | |
|------------------------------------|--|
| Flow volume (GPD): | Description of discharge and constituents: (Add additional pages as necessary) |
| Flow rate (GPM): | |
| Frequency & duration of discharge: | |

| | |
|---|---|
| <p>A. Source of discharges (check all that apply) and attach a diagram of water flow through this facility:</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> Groundwater extraction and treatment for cleanup 2. <input type="checkbox"/> Aquifer pump test 3. <input type="checkbox"/> Dual-phase extraction test, or other extraction pilot test 4. <input type="checkbox"/> Underground storage tank, or contaminated soils excavation dewatering 5. <input type="checkbox"/> Other (describe below) 6. _____ <p>Describe: _____</p> | |
| <p>B. Discharge location: (Address)</p> <p>_____</p> | |
| <p>Township/Range/Section: T _____, R _____, Sec. _____, _____ B&M</p> | <p>Latitude _____ Longitude _____</p> |
| <p>Attach a map showing the discharge site, receiving waters, other nearby surface waters, nearby wells & residences, treatment system, etc.</p> | |

V. RECEIVING WATER INFORMATION

| |
|--|
| <p>A. Does your facility discharge to (Check all that apply):</p> <ol style="list-style-type: none"> 1. <input type="checkbox"/> Storm drain system? Attach written permission and list owner's name: _____ 2. <input type="checkbox"/> Directly to waters of U.S. (e.g., river, lake, creek, ocean)? 3. <input type="checkbox"/> Directly into a water body that has a pollution budget or Total Maximum Daily Load (TMDL)? 4. <input type="checkbox"/> Directly into an Areas of Special Biological Significance or Marine Protected Areas? 5. <input type="checkbox"/> Indirectly to waters of U.S.? |
| <p>B. Name of closest receiving water: _____</p> |
| <p>C: TMDL list (if applicable): _____</p> |

VI. LAND DISPOSAL/RECLAMATION

| |
|---|
| <p>The Water Quality Control Plan encourages reuse/reclamation or land disposal of wastewater where practical. You must evaluate and rule out this alternative prior to any discharge to surface water under this General Permit.</p> |
| <p>Is land disposal/reclamation feasible? Yes _____ No _____ (explain on separate sheet)</p> |

VII. VERIFICATION

| |
|---|
| <p>Have you verified that the proposed discharge will not violate prohibitions or orders? Yes _____ No _____ (explain on separate sheet)</p> |
| <p>Have you received an authorization to discharge into Monterey Bay National Marine Sanctuary (MBMNS) boundaries from MBNMS? Yes _____ No _____ If yes, please attach MBNMS application and authorization letter.</p> |

VIII. FEES

| |
|---|
| <p>A check payable to the State Water Resources Control Board in the amount appropriate for a discharge must be submitted. Applicants should contact the Water Board for the current fee.</p> |
|---|

IX. CERTIFICATIONS

| |
|--|
| <p>"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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 fine and imprisonment." In addition, I certify that the provisions of the permit and the Monitoring Program, will be complied with.</p> |
| <p>Printed Name: _____ Title: _____</p> |
| <p>Signature: _____ Date: _____</p> |

**ATTACHMENT C – NOTICE OF TERMINATION
OF COVERAGE UNDER THE
GENERAL PERMIT FOR DISCHARGES OF HIGHLY TREATED GROUNDWATER TO
SURFACE WATERS
(NPDES PERMIT No. CAG993002, WDR ORDER No. R3-2016-0035)**

Submission of this Notice of Termination constitutes notice that the owner/operator of facility identified on this form is no longer authorized to discharge treated water by NPDES General Permit No. CAG993002.

I. OWNER/OPERATOR

| | | | |
|------------------|--------|---|--------|
| Name: | | | |
| Mailing Address: | | | |
| City: | State: | Zip: | Phone: |
| Contact Person: | | 1. <input type="checkbox"/> Owner 2. <input type="checkbox"/> Operator 3. <input type="checkbox"/> Owner/Operator | |

II. BASIS OF TERMINATION (Please provide additional detail under Section III)

_____ 1. All discharges subject to regulation under the general permit for discharges with low threat to water quality.

Date of termination ____/____/____.

_____ 2. All treated water discharges previously authorized by the general permit has been redirected to:

- _____ a. treated water retained on site.
- _____ b. treated water is discharged to a municipal sanitary sewer system.
- _____ c. treated water is discharged to evaporation ponds or percolation ponds offsite.
- _____ d. treated water is reused/reclaimed.
- _____ e. other, please

explain _____

_____ 3. Discharge of treated water is now subject to another NPDES general permit or an individual NPDES permit.

NPDES Permit No. _____ Date coverage began ____/____/____.

_____ 4. There is a new owner/operator of the identified facility.

Date of owner/operator transfer ____/____/____.
Has the new owner/operator been notified of NPDES general permit requirements? Yes___ No___

NEW OWNER/OPERATOR INFORMATION

| | |
|-----------------|----------|
| Company Name: | |
| Contact Person: | Title: |
| Address: | |
| City, State: | Zip Code |
| Phone: | |

III. EXPLANATION OF BASIS OF TERMINATION:

IV. CERTIFICATION:

I certify under penalty of law that all wastewater discharges associated with the identified facility that are authorized by NPDES general permit No. CAG993002 have been eliminated or that I am no longer the owner/operator of the facility. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge wastewater under the general permit, and that discharging pollutants in wastewater to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this Notice of Termination does not release an owner/operator from liability for any violations of the general permit or the Clean Water Act.

PRINTED NAME _____

TITLE _____

SIGNATURE: _____ DATE __/__/__

ATTACHMENT D –STANDARD PROVISIONS

I. STANDARD PROVISIONS – PERMIT COMPLIANCE

A. Duty to Comply

1. The Discharger must comply with all of the terms, requirements, and conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA) and the California Water Code and is grounds for enforcement action; permit termination, revocation and reissuance, or modification; denial of a permit renewal application; or a combination thereof. (40 C.F.R. § 122.41(a); Wat. Code, §§ 13261, 13263, 13265, 13268, 13000, 13001, 13304, 13350, 13385.)
2. The Discharger shall comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not yet been modified to incorporate the requirement. (40 C.F.R. § 122.41(a)(1).)

B. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a Discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order. (40 C.F.R. § 122.41(c).)

C. Duty to Mitigate

The Discharger shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment. (40 C.F.R. § 122.41(d).)

D. Proper Operation and Maintenance

The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Discharger to achieve compliance with the conditions of this Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Discharger only when necessary to achieve compliance with the conditions of this Order. (40 C.F.R. § 122.41(e).)

E. Property Rights

1. This Order does not convey any property rights of any sort or any exclusive privileges. (40 C.F.R. § 122.41(g).)
2. The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations. (40 C.F.R. § 122.5(c).)

F. Inspection and Entry

The Discharger shall allow the Central Coast Water Board, State Water Board, U.S. EPA, and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to (33 U.S.C. § 1318(a)(4)(B); 40 C.F.R. § 122.41(i); Wat. Code, §§ 13267, 13383):

1. Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order (33 U.S.C. § 1318(a)(4)(B)(i); 40 C.F.R. § 122.41(i)(1); Wat. Code, §§ 13267, 13383);
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order (33 U.S.C. § 1318(a)(4)(B)(ii); 40 C.F.R. § 122.41(i)(2); Wat. Code, §§ 13267, 13383);
3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order (33 U.S.C. § 1318(a)(4)(B)(ii); 40 C.F.R. § 122.41(i)(3); Wat. Code, §§ 13267, 13383); and
4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the Water Code, any substances or parameters at any location. (33 U.S.C. § 1318(a)(4)(B); 40 C.F.R. § 122.41(i)(4); Wat. Code, §§ 13267, 13383.)

G. Bypass

1. Definitions
 - a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. (40 C.F.R. § 122.41(m)(1)(i).)
 - b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities, which causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 C.F.R. § 122.41(m)(1)(ii).)
2. Bypass not exceeding limitations. The Discharger may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions – Permit Compliance I.G.3, I.G.4, and I.G.5 below. (40 C.F.R. § 122.41(m)(2).)
3. Prohibition of bypass. Bypass is prohibited, and the Central Coast Water Board may take enforcement action against a Discharger for bypass, unless (40 C.F.R. § 122.41(m)(4)(i)):
 - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage (40 C.F.R. § 122.41(m)(4)(i)(A));
 - b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance (40 C.F.R. § 122.41(m)(4)(i)(B)); and
 - c. The Discharger submitted notice to the Central Coast Water Board as required under Standard Provisions – Permit Compliance I.G.5 below. (40 C.F.R. § 122.41(m)(4)(i)(C).)

4. The Central Coast Water Board may approve an anticipated bypass, after considering its adverse effects, if the Central Coast Water Board determines that it will meet the three conditions listed in Standard Provisions – Permit Compliance I.G.3 above. (40 C.F.R. § 122.41(m)(4)(ii).)
5. Notice
 - a. Anticipated bypass. If the Discharger knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass. The notice shall be sent to the Central Coast Water Board and notices shall comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. (40 C.F.R. § 122.41(m)(3)(i).)
 - b. Unanticipated bypass. The Discharger shall submit a notice of an unanticipated bypass as required in Standard Provisions - Reporting V.E below (24-hour notice). The notice shall be sent to the Central Coast Water Board and notices shall comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. (40 C.F.R. § 122.41(m)(3)(ii).)

H. Upset

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the Discharger. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. (40 C.F.R. § 122.41(n)(1).)

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Standard Provisions – Permit Compliance I.H.2 below are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. (40 C.F.R. § 122.41(n)(2).)
2. Conditions necessary for a demonstration of upset. A Discharger who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that (40 C.F.R. § 122.41(n)(3)):
 - a. An upset occurred and that the Discharger can identify the cause(s) of the upset (40 C.F.R. § 122.41(n)(3)(i));
 - b. The permitted facility was, at the time, being properly operated (40 C.F.R. § 122.41(n)(3)(ii));
 - c. The Discharger submitted notice of the upset as required in Standard Provisions – Reporting V.E.2.b below (24-hour notice) (40 C.F.R. § 122.41(n)(3)(iii)); and
 - d. The Discharger complied with any remedial measures required under Standard Provisions – Permit Compliance I.C above. (40 C.F.R. § 122.41(n)(3)(iv).)
3. Burden of proof. In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof. (40 C.F.R. § 122.41(n)(4).)

II. STANDARD PROVISIONS – PERMIT ACTION

A. General

This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Discharger for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Order condition. (40 C.F.R. § 122.41(f).)

B. Duty to Reapply

If the Discharger wishes to continue an activity regulated by this Order after the expiration date of this Order, the Discharger must apply for and obtain a new permit. (40 C.F.R. § 122.41(b).)

C. Transfers

This Order is not transferable to any person except after notice to the Central Coast Water Board. The Central Coast Water Board may require modification or revocation and reissuance of the Order to change the name of the Discharger and incorporate such other requirements as may be necessary under the CWA and the Water Code. (40 C.F.R. §§ 122.41(l)(3), 122.61.)

III. STANDARD PROVISIONS – MONITORING

A. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (40 C.F.R. § 122.41(j)(1).)

B. Monitoring must be conducted according to test procedures approved under 40 C.F.R. part 136 for the analyses of pollutants unless another method is required under 40 C.F.R. chapter 1, subchapters N or O. Monitoring must be conducted according to sufficiently sensitive test methods approved under 40 C.F.R. part 136 for the analysis of pollutants or pollutant parameters or as required under 40 C.F.R. chapter 1, subchapter N or O. For the purposes of this paragraph, a method is sufficiently sensitive when:

1. The method minimum level (ML) is at or below the level of the most stringent effluent limitation established in the permit for the measured pollutant or pollutant parameter, and either the method ML is at or below the level of the most stringent applicable water quality criterion for the measured pollutant or pollutant parameter or the method ML is above the applicable water quality criterion but the amount of the pollutant or pollutant parameter in the facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or
2. The method has the lowest ML of the analytical methods approved under 40 C.F.R. part 136 or required under 40 C.F.R. chapter 1, subchapter N or O for the measured pollutant or pollutant parameter.

In the case of pollutants or pollutant parameters for which there are no approved methods under 40 C.F.R. part 136 or otherwise required under 40 C.F.R. chapter 1, subchapters N or O, monitoring must be conducted according to a test procedure specified in this Order for such pollutants or pollutant parameters. (40 C.F.R. §§ 122.21(e)(3), 122.41(j)(4), 122.44(i)(1)(iv).)

IV. STANDARD PROVISIONS – RECORDS

A. Except for records of monitoring information required by this Order related to the Discharger's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 C.F.R. part 503), the Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period

of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Central Coast Water Board Executive Officer at any time. (40 C.F.R. § 122.41(j)(2).)

B. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements (40 C.F.R. § 122.41(j)(3)(i));
2. The individual(s) who performed the sampling or measurements (40 C.F.R. § 122.41(j)(3)(ii));
3. The date(s) analyses were performed (40 C.F.R. § 122.41(j)(3)(iii));
4. The individual(s) who performed the analyses (40 C.F.R. § 122.41(j)(3)(iv));
5. The analytical techniques or methods used (40 C.F.R. § 122.41(j)(3)(v)); and
6. The results of such analyses. (40 C.F.R. § 122.41(j)(3)(vi).)

C. Claims of confidentiality for the following information will be denied (40 C.F.R. § 122.7(b)):

1. The name and address of any permit applicant or Discharger (40 C.F.R. § 122.7(b)(1)); and
2. Permit applications and attachments, permits and effluent data. (40 C.F.R. § 122.7(b)(2).)

V. STANDARD PROVISIONS – REPORTING

A. Duty to Provide Information

The Discharger shall furnish to the Central Coast Water Board, State Water Board, or U.S. EPA within a reasonable time, any information which the Central Coast Water Board, State Water Board, or U.S. EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order or to determine compliance with this Order. Upon request, the Discharger shall also furnish to the Central Coast Water Board, State Water Board, or U.S. EPA copies of records required to be kept by this Order. (40 C.F.R. § 122.41(h); Wat. Code, §§ 13267, 13383.)

B. Signatory and Certification Requirements

1. All applications, reports, or information submitted to the Central Coast Water Board, State Water Board, and/or U.S. EPA shall be signed and certified in accordance with Standard Provisions – Reporting V.B.2, V.B.3, V.B.4, V.B.5, and V.B.6 below. (40 C.F.R. § 122.41(k).)
2. For a Corporation: All permit applications shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. (40 C.F.R. § 122.22(a)(1).)
3. For a partnership or sole proprietorship, all permit applications shall be signed by a general partner or the proprietor, respectively. (40 C.F.R. § 122.22(a)(2).)

4. For a municipality, state, federal, or other public agency, all permit applications shall be signed by either a principal executive officer or ranking elected official. For purposes of this provision, a principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of U.S. EPA). (40 C.F.R. § 122.22(a)(3).)
5. All reports required by this Order and other information requested by the Central Coast Water Board, State Water Board, or U.S. EPA shall be signed by a person described in Standard Provisions – Reporting V.B.2 above, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Standard Provisions – Reporting V.B.2 above (40 C.F.R. § 122.22(b)(1));
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) (40 C.F.R. § 122.22(b)(2)); and
 - c. The written authorization is submitted to the Central Coast Water Board and State Water Board. (40 C.F.R. § 122.22(b)(3).)
6. If an authorization under Standard Provisions – Reporting V.B.3 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Standard Provisions – Reporting V.B.3 above must be submitted to the Central Coast Water Board and State Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative. (40 C.F.R. § 122.22(c).)
7. Any person signing a document under Standard Provisions – Reporting V.B.2 or V.B.3 above shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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 fine and imprisonment for knowing violations.” (40 C.F.R. § 122.22(d).)
8. Any person providing the electronic signature for documents described in Standard Provisions – V.B.1, V.B.2, or V.B.3 that are submitted electronically shall meet all relevant requirements of Standard Provisions – Reporting V.B, and shall ensure that all relevant requirements of 40 C.F.R. part 3 (Cross-Media Electronic Reporting) and 40 C.F.R. part 127 (NPDES Electronic Reporting Requirements) are met for that submission. (40 C.F.R § 122.22(e).)

C. Monitoring Reports

1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program (Attachment E) in this Order. (40 C.F.R. § 122.41(l)(4).)

2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Central Coast Water Board or State Water Board for reporting the results of monitoring, sludge use, or disposal practices. As of December 21, 2016, all reports and forms must be submitted electronically to the initial recipient defined in Standard Provisions – Reporting V.J and comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. (40 C.F.R. § 122.41(l)(4)(i).)
3. If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 C.F.R. part 136, or another method required for an industry-specific waste stream under 40 C.F.R. chapter 1, subchapters N or O, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Central Coast Water Board. (40 C.F.R. § 122.41(l)(4)(ii).)
4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order. (40 C.F.R. § 122.41(l)(4)(iii).)

D. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Order, shall be submitted no later than 14 days following each schedule date. (40 C.F.R. § 122.41(l)(5).)

E. Twenty-Four Hour Reporting

1. The Discharger shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A report shall also be provided within five (5) days of the time the Discharger becomes aware of the circumstances. The report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

All reports must be submitted to the Central Coast Water Board and must be submitted electronically to the initial recipient defined in Standard Provisions – Reporting V.J. The reports shall comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127.

2. The following shall be included as information that must be reported within 24 hours:
 - a. Any unanticipated bypass that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(l)(6)(ii)(A).)
 - b. Any upset that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(l)(6)(ii)(B).)
3. The Central Coast Water Board may waive the above required written report on a case-by-case basis if an oral report has been received within 24 hours. (40 C.F.R. § 122.41(l)(6)(ii)(B).)

F. Planned Changes

The Discharger shall give notice to the Central Coast Water Board as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required under this provision only when (40 C.F.R. § 122.41(l)(1)):

1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in section 122.29(b) (40 C.F.R. § 122.41(l)(1)(i)); or

2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this Order. (40 C.F.R. § 122.41(l)(1)(ii).)
3. The alteration or addition results in a significant change in the Discharger's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 C.F.R. § 122.41(l)(1)(iii).)

G. Anticipated Noncompliance

The Discharger shall give advance notice to the Central Coast Water Board of any planned changes in the permitted facility or activity that may result in noncompliance with this Order's requirements. (40 C.F.R. § 122.41(l)(2).)

H. Other Noncompliance

The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting V.C, V.D, and V.E above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E above. For noncompliance events related to combined sewer overflows, sanitary sewer overflows, or bypass events, these reports shall contain the information described in Standard Provision – Reporting V.E and the applicable required data in appendix A to 40 C.F.R. part 127. The Central Coast Water Board may also require the Discharger to electronically submit reports not related to combined sewer overflows, sanitary sewer overflows, or bypass events under this section. (40 C.F.R. § 122.41(l)(7).)

I. Other Information

When the Discharger becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Central Coast Water Board, State Water Board, or U.S. EPA, the Discharger shall promptly submit such facts or information. (40 C.F.R. § 122.41(l)(8).)

J. Initial Recipient for Electronic Reporting Data

The owner, operator, or the duly authorized representative is required to electronically submit NPDES information specified in appendix A to 40 C.F.R. part 127 to the initial recipient defined in 40 C.F.R. section 127.2(b). U.S. EPA will identify and publish the list of initial recipients on its website and in the Federal Register, by state and by NPDES data group [see 40 C.F.R. section 127.2(c)]. U.S. EPA will update and maintain this listing. (40 C.F.R. § 122.41(l)(9).)

VI. STANDARD PROVISIONS – ENFORCEMENT

- A. The Central Coast Water Board is authorized to enforce the terms of this permit under several provisions of the Water Code, including, but not limited to, sections 13268, 13385, 13386, and 13387.

CENTRAL COAST WATER BOARD STANDARD PROVISIONS (JANUARY 2013)

A. Central Coast General Permit Conditions – Prohibitions

1. Introduction of "incompatible wastes" to the treatment system is prohibited

2. Discharge of high-level radiological waste and of radiological, chemical, and biological warfare agents is prohibited.
3. Discharge of "toxic pollutants" in violation of effluent standards and prohibitions established under section 307(a) of the CWA is prohibited.
4. Discharge of sludge, sludge digester or thickener supernatant, and sludge drying bed leachate to drainageways, surface waters, or the ocean is prohibited.
5. Introduction of pollutants into the collection, treatment, or disposal system by an "indirect discharger" that:
 - a. Inhibit or disrupt the treatment process, system operation, or the eventual use or disposal of sludge; or
 - b. Flow through the system to the receiving water untreated; and
 - c. Cause or "significantly contribute" to a violation of any requirement of this Order, is prohibited.
6. Introduction of "pollutant free" wastewater to the collection, treatment, and disposal system in amounts that threaten compliance with this Order is prohibited.

B. Central Coast Standard Provisions

5. Collection, treatment, and discharge of waste shall not create nuisance or pollution, as defined by California Water Code Section 13050.
6. All facilities used for transport or treatment of wastes shall be adequately protected from inundation and washout as the result of a 100-year frequency flood.
7. Operation of collection, treatment, and disposal systems shall be in a manner that precludes public contact with wastewater.
8. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of in a manner approved by the Central Coast Water Board Executive Officer.
9. Wastewater treatment plants shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to title 23 of the California Code of Regulations.
10. After notice and opportunity for a hearing, this Order may be terminated for cause, including, but not limited to:
 - a. violation of any term or condition contained in this Order.
 - b. obtaining this Order by misrepresentation, or by failure to disclose fully all relevant facts.
 - c. a change in any condition or endangerment to human health or environment that requires a temporary or permanent reduction or elimination of the authorized discharge.
 - d. a substantial change in character, location, or volume of the discharge.
11. Provisions of this Order are severable. If any provision of this Order is found invalid, the remainder of this Order shall not be affected.
12. After notice and opportunity for hearing, this Order may be modified or revoked and reissued for cause, including:

- a. Promulgation of a new or revised effluent standard or limitation.
 - b. A material change in character, location, or volume of the discharge.
 - c. Access to new information that affects the terms of the Order, including applicable schedules.
 - d. Correction of technical mistakes or mistaken interpretations of law.
 - e. Other causes set forth under subpart D of 40 C.F.R. part 122.
13. Safeguards shall be provided to ensure maximal compliance with all terms and conditions of this Order. Safeguards shall include preventative and contingency plans and may also include alternative power sources, stand-by generators, retention capacity, operating procedures, or other precautions. Preventative and contingency plans for controlling and minimizing the effect of accidental discharges shall:
- a. identify possible situations that could cause "upset," "overflow," "bypass," or other noncompliance. (Loading and storage areas, power outage, waste treatment unit outage, and failure of process equipment, tanks and pipes should be considered.)
 - b. evaluate the effectiveness of present facilities and procedures and describe procedures and steps to minimize or correct any adverse environmental impact resulting from noncompliance with the permit.
14. Physical facilities shall be designed and constructed according to accepted engineering practice and shall be capable of full compliance with this Order when properly operated and maintained. Proper operation and maintenance shall be described in an Operation and Maintenance Manual. Facilities shall be accessible during the wet-weather season.
15. The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the Discharger to achieve compliance with the conditions of this Order. Electrical and mechanical equipment shall be maintained in accordance with appropriate practices and standards, such as NFPA 70B, *Recommended Practice for Electrical Equipment Maintenance*; NFPA 70E, *Standard for Electrical Safety in the Workplace*; ANSI/NETA MTS *Standard for Maintenance: Testing Specifications for Electrical Power Equipment and Systems*, or procedures established by insurance companies or other industry resources.
16. If the Discharger's facilities are equipped with SCADA or other systems that implement wireless, remote operation, the Discharger should implement appropriate safeguards against unauthorized access to the wireless systems. Standards such as NIST SP 800-53, *Recommended Security Controls for Federal Information Systems*, can provide guidance.
17. Production and use of recycled water is subject to the approval of the Central Coast Water Board. Production and use of recycled water shall be in conformance with chapter 3, division 4, title 22 of the California Code of Regulations (Water Recycling Criteria); chapter 7, division 7 of the California Water Code (Water Recycling Law); and the State Water Board's Policy for Water Quality Control for Recycled Water (Recycled Water Policy). An engineering report pursuant title 22, of the California Code of Regulations is required and a waiver or water recycling requirements from the Central Coast Water Board is required before recycled water is supplied for any use, or to any user, not specifically identified and approved either in this Order or another order issued by this Board.

C. Central Coast Standard Provisions – General Monitoring Requirements

18. If results of monitoring a pollutant appear to violate effluent limitations based on a weekly, monthly, 30-day, or six-month period, but compliance or non-compliance cannot be validated because sampling is too infrequent, the frequency of sampling shall be increased to validate the test within the next monitoring period. The increased frequency shall be maintained until the Central Coast Executive Officer agrees that the original monitoring frequency may be resumed.

For example, if copper is monitored annually and results exceed the six-month median numerical effluent limitation in the permit, monitoring of copper must be increased to a frequency of at least once every two months (Central Coast Standard Provisions – Definitions I.G.13.). If suspended solids are monitored weekly and results exceed the weekly average numerical limit in the permit, monitoring of suspended solids must be increased to at least four (4) samples every week (Central Coast Standard Provisions – Definitions I.G.14.).

19. Water quality analyses performed in order to monitor compliance with this Order shall be by a laboratory certified by the State Water Board Division of Drinking Water (formerly California Department of Public Health) for the constituents being analyzed. Bioassays performed to monitor compliance with this Order shall be in accord with guidelines approved by the State Water Resources Control Board (State Water Board) and the Department of Fish and Wildlife.
20. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. Samples shall be taken during periods of peak loading conditions. Influent samples shall be samples collected from the combined flows of all incoming wastes, excluding recycled wastes. Effluent samples shall be samples collected downstream of the last treatment unit and tributary flow and upstream of any mixing with receiving waters.
21. All monitoring instruments and devices used by the Discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.

D. Central Coast Standard Provisions – General Reporting Requirements

22. Reports of marine monitoring surveys conducted to meet receiving water monitoring requirements of the Monitoring and Reporting Program shall include at least the following information:
- a. A description of climatic and receiving water characteristics at the time of sampling (weather observations, floating debris, discoloration, wind speed and direction, swell or wave action, time of sampling, tide height, etc.).
 - b. A description of sampling stations, including differences unique to each station (e.g., station location, grain size, rocks, shell litter, calcareous worm tubes, evident life, etc.).
 - c. A description of the sampling procedures and preservation sequence used in the survey.
 - d. A description of the exact method used for laboratory analysis. In general, analysis shall be conducted according to Central Coast Standard Provisions

- C.1 above, and Federal Standard Provision – Monitoring III.B. However, variations in procedure are acceptable to accommodate the special requirements of sediment analysis. All such variations must be reported with the test results.
- e. A brief discussion of the results of the survey. The discussion shall compare data from the control station with data from the outfall stations. All tabulations and computations shall be explained.
23. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule shall be submitted within 14 days following each scheduled date unless otherwise specified within this Order. If reporting noncompliance, the report shall include a description of the reason, a description and schedule of tasks necessary to achieve compliance, and an estimated date for achieving full compliance. A second report shall be submitted within 14 days of full compliance.
24. The Discharger shall file a report of waste discharge at least 180 days before making any material change or proposed change in the character, location, or plume of the discharge.
25. Within 120 days after the Discharger discovers, or is notified by the Central Coast Water Board, that monthly average daily flow will or may reach design capacity of waste treatment or disposal facilities within four years, the Discharger shall file a written report with the Central Coast Water Board. The report shall include:
- the best estimate of when the monthly average daily dry weather flow rate will equal or exceed design capacity; and,
 - a schedule for studies, design, and other steps needed to provide additional capacity for waste treatment or disposal facilities before the waste flow rate equals the capacity of present units.

In addition to complying with Federal Standard Provision – Reporting V.B., the required technical report shall be prepared with public participation and reviewed, approved and jointly submitted by all planning and building departments having jurisdiction in the area served by the waste collection, treatment, or disposal facilities.

26. The Discharger shall submit monitoring reports (both eSMRs and DMRs) electronically to the CIWQS website or to the GeoTracker website. All other correspondence or reports shall be sent electronically to:
- Central Coast Water Board
centralcoast@waterboards.ca.gov
27. Transfer of control or ownership of a waste discharge facility must be preceded by a notice to the Central Coast Water Board at least 30 days in advance of the proposed transfer date. The notice must include a written agreement between the existing Discharger and proposed Discharger containing a specific date for transfer of responsibility, coverage, and liability between them. Whether an Order may be transferred without modification or revocation and reissuance is at the discretion of the Board. If Order modification or revocation and reissuance are necessary, transfer may be delayed 180 days after the Central Coast Water Board's receipt of a complete application. Please also see Federal Standard Provision – Permit Action II.C

28. Except for data determined to be confidential under CWA section 308 (excludes effluent data and permit applications), all reports prepared in accordance with this Order shall be available for public inspection at the office of the Central Coast Water Board or Regional Administrator of U.S. EPA. Please also see Federal Standard Provision – Records IV.C
29. By January 30 of each year, the Discharger shall submit an annual report to the Central Coast Water Board. The report shall contain the following:
 - a. Both tabular and graphical summaries of the monitoring data obtained during the previous year.
 - b. A discussion of the previous year's compliance record and corrective actions taken, or which may be needed, to bring the Discharger into full compliance.
 - c. An evaluation of wastewater flows with projected flow rate increases over time and the estimated date when flows will reach facility capacity.
 - d. A discussion of operator certification and a list of current operating personnel and their grades of certification.
 - e. The date of the Facility's Operation and Maintenance Manual (including contingency plans as described in Provision B.9), the date the manual was last reviewed, and whether the manual is complete and valid for the current facility.
 - f. A discussion of the laboratories used by the Discharger to monitor compliance with effluent limitation and a summary of performance relative to Section C, General Monitoring Requirements.
 - g. If the Facility treats industrial or domestic wastewater and there is no provision for periodic sludge monitoring in the Monitoring and Reporting Program, the report shall include a summary of sludge quantities, analyses of its chemical and moisture content, and its ultimate destination.
 - h. If appropriate, the report shall also evaluate the effectiveness of the local source control or pretreatment program using the State Water Board's "Guidelines for Determining the Effectiveness of Local Pretreatment Program."

E. Central Coast Standard Provisions – General Pretreatment Provisions

Discharge of pollutants by "indirect dischargers" in specific industrial sub-categories (40 C.F.R. part 403 appendix C), where categorical pretreatment standards have been established, or are to be established, (according to 40 C.F.R. chapter 1, subchapter N), shall comply with the appropriate pretreatment standards by the date specified therein or, if a new indirect discharger, upon commencement of discharge.

F. Central Coast Standard Provisions – Enforcement

- a. Any person failing to file a report of waste discharge or other report as required by this Order shall be subject to a civil penalty not to exceed \$5,000 per day.
- b. Failure to comply with provisions or requirements of this Order, or violation of other applicable laws or regulations governing discharges from this facility, may subject the Discharger to administrative or civil liabilities, criminal penalties, and/or other enforcement remedies to ensure compliance. Additionally, certain violations may

subject the Discharger to civil or criminal enforcement from appropriate local, state, or federal law enforcement entities.

- c. Upon reduction, loss, or failure of the treatment facility, the Discharger shall, to the extent necessary to maintain compliance with this Order, control production or all discharges, or both, until the facility is restored or an alternative method of treatment is provided.

G. Central Coast Standard Provisions – Definitions

1. A "composite sample" is a combination of no fewer than eight individual samples obtained at equal time intervals (usually hourly) over the specified sampling (composite) period. The volume of each individual sample is proportional to the flow rate at the time of sampling. The period shall be specified in the Monitoring and Reporting Program ordered by the Executive Officer.
2. "Daily Maximum" limit means the maximum acceptable concentration or mass emission rate of a pollutant measured during a calendar day or during any 24-hour period reasonably representative of the calendar day for purposes of sampling. It is normally compared with results based on "composite samples" except for ammonia, total chlorine, phenolic compounds, and toxicity concentration. For all exceptions, comparisons will be made with results from a "grab sample."
3. "Discharger," as used herein, means, as appropriate: (1) the Discharger, (2) the local sewerage entity (when the collection system is not owned and operated by the Discharger), or (3) "indirect discharger" (where "Discharger" appears in the same paragraph as "indirect discharger," it refers to the discharger.)
4. "Duly Authorized Representative" may sign documents if:
 - a. the authorization is made in writing by a person described in the signatory paragraph of Federal Standard Provision V.B.;
 - b. the authorization specifies either an individual or the occupant of a position having either responsibility for the overall operation of the regulated facility, such as the plant manager, or overall responsibility for environmental matters of the company; and,
 - c. the written authorization was submitted to the Central Coast Water Board.
5. A "grab sample" is defined as any individual sample collected in less than 15 minutes. "Grab samples" shall be collected during peak loading conditions, which may or may not be during hydraulic peaks. It is used primarily in determining compliance with the daily maximum limits identified in Central Coast Standard Provision – Provision G.2. and instantaneous maximum limits. Grab samples represent only the condition that exists at the time the discharge water is collected.
6. "Hazardous substance" means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act.
7. "Incompatible wastes" are:
 - a. Wastes that create a fire or explosion hazard in the treatment works.
 - b. Wastes that will cause corrosive structural damage to treatment works, ~~but in no case or~~ wastes with a pH lower than 5.0 unless the works is specifically designed to accommodate such wastes.
 - c. Solid or viscous wastes in amounts that cause obstruction to flow in sewers or that cause other interference with proper operation of treatment works.

- d. Any waste, including oxygen-demanding pollutants (BOD, etc), released in such volume or strength as to cause inhibition or disruption in the treatment works and subsequent treatment process upset and loss of treatment efficiency.
- e. Heat in amounts that inhibit or disrupt biological activity in the treatment works or that raise influent temperatures above 40°C (104°F) unless the treatment works is designed to accommodate such heat.
8. "Indirect Discharger" means a non-domestic discharger introducing pollutants into a publicly owned treatment and disposal system.
9. "Log Mean" is the geometric mean. Used for determining compliance of fecal or total coliform populations, it is calculated with the following equation:
$$\text{Log Mean} = (C_1 \times C_2 \times \dots \times C_n)^{1/n},$$
in which "n" is the number of days samples were analyzed during the period and any "C" is the concentration of bacteria (MPN/100 ml) found on each day of sampling. "n" should be five or more.
10. "Mass emission rate" is a daily rate defined by the following equations:
mass emission rate (lbs/day) = 8.34 x Q x C; and,
mass emission rate (kg/day) = 3.79 x Q x C,
where "C" (in mg/L) is the measured daily constituent concentration or the average of measured daily constituent concentrations and "Q" (in MGD) is the measured daily flowrate or the average of measured daily flowrates over the period of interest.
11. The "Maximum Allowable Mass Emission Rate," whether for a month, week, day, or six-month period, is a daily rate determined with the formulas in paragraph G.10, above, using the effluent concentration limit specified in the permit for the period and the average of measured daily flows (up to the allowable flow) over the period.
12. "Maximum Allowable Six-Month Median Mass Emission Rate" is a daily rate determined with the formulas in Central Coast Standard Provision – Provision G.10, above, using the "six-month median" effluent limit specified in the permit, and the average of measured daily flows (up to the allowable flow) over a 180-day period.
14. "Monthly Average" (or "Weekly Average," as the case may be) is the arithmetic mean of daily concentrations or of daily mass emission rates over the specified 30-day (or 7-day) period.
$$\text{Average} = (X_1 + X_2 + \dots + X_n) / n$$
in which "n" is the number of days that samples were analyzed during the period and "X" is either the constituent concentration (mg/L) or mass emission rate (kg/day or lbs/day) for each sampled day. "n" should be four or greater.
15. "Municipality" means a city, town, borough, county, district, association, or other public body created by or under State law and having jurisdiction over disposal of sewage, industrial waste, or other waste.
16. "Overflow" means the intentional or unintentional diversion of flow from the collection and transport systems, including pumping facilities.
17. "Pollutant-free wastewater" means inflow and infiltration, stormwaters, and cooling waters and condensates which are essentially free of pollutants.

18. "Primary Industry Category" means any industry category listed in 40 CFR Part 122, Appendix A.
19. "Removal Efficiency" is the ratio of pollutants removed by the treatment unit to pollutants entering the treatment unit. Removal efficiencies of a treatment plant shall be determined using "Monthly averages" of pollutant concentrations (C, in mg/L) of influent and effluent samples collected about the same time and the following equation (or its equivalent):
$$C_{\text{Effluent}} \text{ Removal Efficiency (\%)} = 100 \times (1 - C_{\text{effluent}} / C_{\text{influent}})$$
20. "Severe property damage" means substantial physical damage to property, damage to treatment facilities that causes them to become inoperable, or substantial and permanent loss to natural resources that can reasonably be expected to occur in the absence of a "bypass." It does not mean economic loss caused by delays in production.
21. "Sludge" means the solids, residues, and precipitates separated from, or created in, wastewater by the unit processes of a treatment system.
22. To "significantly contribute" to a permit violation means an "indirect discharger" must:
- Discharge a daily pollutant loading in excess of that allowed by contract with the "Discharger" or by federal, state, or local law;
 - Discharge wastewater which substantially differs in nature or constituents from its average discharge;
 - Discharge pollutants, either alone or in conjunction with discharges from other sources, that results in a permit violation or prevents sewage sludge use or disposal; or
 - Discharge pollutants, either alone or in conjunction with pollutants from other sources, that increase the magnitude or duration of permit violations.
23. "Toxic Pollutant" means any pollutant listed as toxic under Section 307 (a) (1) of the Clean Water Act or under 40 CFR Part 122, Appendix D. Violation of maximum daily discharge limitations are subject to 24-hour reporting (Federal Standard Provisions V.E.).
24. "Zone of Initial Dilution" means the region surrounding or adjacent to the end of an outfall pipe or diffuser ports whose boundaries are defined through calculation of a plume model verified by the State Water Board.

VII. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS

A. Non-Municipal Facilities

Existing manufacturing, commercial, mining, and silvicultural Dischargers shall notify the Central Coast Water Board as soon as they know or have reason to believe (40 C.F.R. § 122.42(a)):

- That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" (40 C.F.R. § 122.42(a)(1)):
 - 100 micrograms per liter ($\mu\text{g/L}$) (40 C.F.R. § 122.42(a)(1)(i));
 - 200 $\mu\text{g/L}$ for acrolein and acrylonitrile; 500 $\mu\text{g/L}$ for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol; and 1 milligram per liter (mg/L) for antimony (40 C.F.R. § 122.42(a)(1)(ii));

- c. Five (5) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge (40 C.F.R. § 122.42(a)(1)(iii)); or
 - d. The level established by the Central Coast Water Board > in accordance with section 122.44(f). (40 C.F.R. § 122.42(a)(1)(iv).)
2. That any activity has occurred or will occur that would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" (40 C.F.R. § 122.42(a)(2)):
 - a. 500 micrograms per liter ($\mu\text{g/L}$) (40 C.F.R. § 122.42(a)(2)(i));
 - b. 1 milligram per liter (mg/L) for antimony (40 C.F.R. § 122.42(a)(2)(ii));
 - c. Ten (10) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge (40 C.F.R. § 122.42(a)(2)(iii)); or
 - d. The level established by the Central Coast Water Board in accordance with section 122.44(f). (40 C.F.R. § 122.42(a)(2)(iv).)

ATTACHMENT E – MONITORING AND REPORTING PROGRAM

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ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP)

Section 308 of the federal Clean Water Act (CWA) and sections 122.41(h), (j)-(l), 122.44(i), and 122.48 of title 40 of the Code of Federal Regulations (40 C.F.R.) require that all NPDES permits specify monitoring and reporting requirements. Water Code sections 13267 and 13383 also authorize the Central Coast Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. This MRP establishes monitoring, reporting, and recordkeeping requirements that implement the federal and California laws and/or regulations. Specific waste discharger reporting responsibilities are found in Sections 13225(a), 13383, and 13387(b) of the California Water Code and the Environmental Protection Agency's (USEPA) Discharge Monitoring Report (Form 3320-1).

Discharges regulated under General National Pollutant Discharge Elimination System (NPDES) Permit for Highly Treated Groundwater to Surface Waters (General Permit) shall be subject to the following requirements unless such requirements are modified or waived by the Central Coast Regional Water Quality Control Board's (Central Coast Water Board) Executive Officer. **Additional requirements may be added by the Executive Officer if needed to adequately ensure compliance with the General Permit. This Monitoring and Reporting Program (MRP No. R3-2016-00035) may be revised, as necessary, by the Executive Officer.** Revisions may include addition of priority pollutants that exceed effluent limits in influent samples. Exceeded priority pollutants will be added to MRP No. R3-2016-0035 and are subject to sampling requirements as specified below.

The principal purposes of a monitoring program by a waste discharger are (1) to document compliance with waste discharge requirements and prohibitions established by the Central Coast Water Board; (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge; (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards; and (4) to prepare water quality inventories.

I. GENERAL MONITORING PROVISIONS

- A. Laboratories analyzing monitoring samples shall be certified by the State Water Resources Control Board (State Water Board), in accordance with the provision of Water Code section 13176, and must include quality assurance/quality control data with their reports.
- B. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring locations specified below and, unless otherwise specified, before the monitored flow joins or is diluted by any other waste stream, body of water, or substance. Monitoring locations shall not be changed without notification to and approval of the Central Coast Water Board.
- C. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring locations specified below and, unless otherwise specified, before the monitored flow joins or is diluted by any other waste stream, body of water, or substance. Monitoring locations shall not be changed without notification to and approval of the Central Coast Water Board.
- D. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than ± 10 percent from true discharge rates throughout the range

of expected discharge volumes. Guidance in selection, installation, calibration, and operation of acceptable flow measurement devices can be obtained from the following references.

30. *A Guide to Methods and Standards for the Measurement of Water Flow*, U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 96 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. C13.10:421)
 31. *Water Measurement Manual*, U.S. Department of Interior, Bureau of Reclamation, Third Edition, Revised Reprint, 2001, 317 pp. (Available from the U.S. Government Printing Office, Washington D.C. 20402. Stock No. 024-00215-1)
 32. *Flow Measurement in Open Channels and Closed Conduits*, U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Services (NTIS) Springfield, VA 22151. Order by NTIS No. PB-273 535/5ST.)
 33. *NPDES Compliance Sampling Manual*, U.S. Environmental Protection Agency, Office of Water Enforcement, Publication MCD-51, 1977, 140 pp. (Available from the General Services Administration (8FFS), Centralized Mailing Lists Services, Building 41, Denver Federal Center, CO 80225.)
- E. All monitoring instruments and devices used by the Discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices.
- F. Monitoring results, including noncompliance, shall be reported at intervals and in a manner specified in this MRP.
- G. Unless otherwise specified by this MRP, all monitoring shall be conducted according to test procedures established at 40 C.F.R. part 136, *Guidelines Establishing Test Procedures for Analysis of Pollutants*. All analyses shall be conducted using the lowest practical quantitation limit achievable using the specified methodology. Where effluent limitations are set below the lowest achievable quantitation limits, pollutants not detected at the lowest practical quantitation limits will be considered in compliance with effluent limitations. Analysis for toxics listed by the California Toxics Rule shall also adhere to guidance and requirements contained in the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (2009). Analyses for toxics listed in Table 1 (formerly Table B) of the 2015 California Ocean Plan (California Ocean Plan) shall adhere to guidance and requirements contained in that document.

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 E-1. Monitoring Station Locations

| Discharge Point Name | Monitoring Location Name | Monitoring Location Description |
|----------------------|--------------------------|--|
| Influent | INF-001 | At a point after the extraction well(s) or a designated sampling port prior to the treatment system, |
| Midpoint-1 | MID-001 | At a point between treatment systems to evaluate treatment system efficiency and monitor for contaminant breakthrough. |

| | | |
|------------------------------------|-----------------|--|
| Midpoint-2 | MID-002 | At a point between treatment systems to evaluate treatment system efficiency and monitor for contaminant breakthrough. |
| Effluent | EFF-001 | At a point in the discharge line immediately exiting the facility or site boundary but before discharge water mixes with any receiving water following treatment and before it joins or is diluted by any other waste stream, body of water, or substance. |
| Receiving Waters Upstream | RSW-001U | At a point 50 feet upstream or up coast from the point of discharge into the receiving water, or if access is limited, at the first point upstream/coast which is accessible |
| Receiving Waters Downstream | RSW-001D | At a point 50 feet downstream or down coast from the point of discharge into the receiving water, or if access is limited, at the first point downstream/coast which is accessible. |

Note: The Discharger is responsible to submit latitude and longitude information for the effluent and receiving water locations.

III. GROUNDWATER TREATMENT SYSTEM START-UP MONITORING REQUIREMENTS

- A. Start-Up Phase Monitoring: The Discharger shall notify the Executive Officer in writing of the startup date within 7 to 14 days before start up begins. During the initial effluent discharge, sampling of the effluent must occur on the first day. The discharger shall adhere to the following during startup:
 1. On the first day, the treatment system effluent shall run until at least three consecutive readings for pH, conductivity, and temperature are within five percent of each other. After attainment of consecutive readings for pH, conductivity, and temperature, the Discharger will collect and submit an effluent sample to a certified laboratory. Prior to receipt of the results of the initial samples, all effluent shall be discharged into a holding tank (that is contained, not discharged to the receiving water) until the results of the analyses show the discharge to be within the effluent limits established in this Order and/or in the authorization letter. Shut down of the treatment system may occur after the first day's sampling to await the laboratory analytical results and, thereby, reduce the amount of storage needed. For the stored effluent, if the results of the analyses show the discharge to be in violation, the effluent shall: 1) be treated until the treated effluent is in compliance, or 2) be disposed in accord with the provisions of Chapter 15, Title 23, California Code of Regulations.
 2. If the first day's sampling shows compliance with effluent limits, then the Discharger may discharge into the receiving water. If the Discharger is required to shut down the treatment system for more than 8 days following initial startup (awaiting analyses results, etc.), the Discharger must repeat the original sampling and start up procedures.
 3. The Discharger shall present the results of the laboratory analyses, flow rates, chain of custody forms, and descriptions of any changes or modifications to the treatment system in the startup report.

IV. TREATMENT SYSTEM MONITORING

B. Treatment System Monitoring (Influent, Midpoint(s), Effluent): The Discharger shall conduct treatment system monitoring in accordance with the following requirements:

1. The treatment system shall be sampled at the influent (INF-1), midpoint(s) (MID-1, MID-2, etc.), and effluent (EFF-1) locations 1) at startup, 2) weekly during the first month of operation, and 3) monthly thereafter for the constituents listed in Table E-2.
2. If the Discharger detects any constituent in the influent that is above the water quality criteria (effluent limit) as listed in this permit, then the discharger shall analyze the influent (INF-1), midpoint(s) (MID-1, MID-2, etc.), and effluent (EFF-1) locations for each exceeded constituent **start up then monthly**. See 40 CFR 122.21(e) (3) and 122.44(i)(1)(iv) for priority pollutant reporting minimum levels and acceptable analytical methods.
3. If the Discharger detects any priority pollutant or Ocean Plan Table 1 constituent in the influent that is above the reporting limit, but not above the water quality criteria, then the discharger shall analyze the influent (INF-1), midpoint(s) (MID-1, MID-2, etc.), and effluent (EFF-1) locations for each detected constituent **start up then quarterly**. See Table E-2 for priority pollutant reporting minimum levels and acceptable analytical methods:
4. If the Discharger does not detect priority pollutants or Ocean Plan Table B constituents in the influent that are above the reporting limit, then no additional sampling is required.
5. Representative samples collected from between and after the treatment systems shall be submitted under a two-week turnaround time to evaluate for potential treatment system breakthrough, or for replacement of the treatment system media and rotation of the treatment vessels (if applicable).
6. Requests for changes in monitoring frequency and analyte analysis shall be submitted in writing for Central Coast Water Board staff review and Executive Officer approval.
7. Monitoring Requirements (as applicable to specific groundwater constituents):

Petroleum Hydrocarbon Related Cleanup Sites¹: At a minimum, sampling and analysis of the groundwater extraction, treatment, and discharge system for cleanup shall be conducted in accordance with the following analytical methods:

Table E-3 Monitoring Requirements

| Constituent | Units | Sample Type | EPA Method | Practical Quantification Limit (µg/L) | Frequency |
|--------------|-------|-------------|------------------|---------------------------------------|---|
| Benzene | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| Toluene | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| Ethylbenzene | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| Xylenes | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| TPH | µg/L | Grab | 8015B (modified) | 50.0 | Startup; weekly for first month; monthly thereafter |
| MTBE | µg/L | Grab | 8260B | 1.0 | Startup; weekly for first month; monthly thereafter |

¹ The Executive Officer may add additional compounds, delete compounds, or change sampling frequency based on site-specific conditions.

| | | | | | |
|-----|------|------|-------|------|---|
| TBA | µg/L | Grab | 8260B | 10.0 | Startup; weekly for first month; monthly thereafter |
|-----|------|------|-------|------|---|

Volatile Organic Compound Related Cleanup Sites²: At a minimum, sampling and analysis of the groundwater extraction, treatment and discharge system for the cleanup shall be conducted in accordance with the following analytical methods:

Table E-4 Monitoring Requirements

| Constituent | Units | Sample Type | EPA Method | Practical Quantification Limit (µg/L) | Frequency |
|--------------------------|-------|-------------|------------|---------------------------------------|---|
| tetrachloroethene | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| trichloroethene | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| cis-1,2-dichloroethene | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| trans-1,2-dichloroethene | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| vinyl chloride | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| 1,2-dichloroethane | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| 1,1-dichloroethene | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |
| 1,1,1-trichloroethane | µg/L | Grab | 8260B | 0.5 | Startup; weekly for first month; monthly thereafter |

V. INFLUENT MONITORING REQUIREMENTS

As stated above, the Executive Officer may add additional compounds to each facility's monitoring and reporting program. Influent must be monitored as described above in Table 4 dependent upon the types of wastes discharged to the environment.

VI. EFFLUENT MONITORING REQUIREMENTS

- A.** U.S. EPA published regulations for the Sufficiently Sensitive Methods Rule (SSM Rule) which became effective September 18, 2015. When more than one test procedure is approved under 40 CFR, part 136 for the analysis of a pollutant or pollutant parameter, the test procedure must be sufficiently sensitive as defined at 40 CFR 122.21(e) (3) and 122.44(i)(1)(iv). Both of these cited 40 CFR sections apply to the selection of a sufficiently sensitive analytical method for the purposes of monitoring and reporting, including review of permit applications. A U.S. EPA approved analytical method is sufficiently sensitive where:
- a) The ML is at or below both the level of the applicable water quality criterion/objective and the permit limitation for the measured pollutant or pollutant parameter; or

² The Executive Officer may add additional compounds, delete compounds, or change sampling frequency based on site-specific conditions.

- b) In permit applications, the ML is above the applicable water quality criterion/objective, but the pollutant or pollutant parameter in a facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or
- c) The method has the lowest ML of the U.S. EPA-approved methods where none of the U.S. EPA-approved analytical methods for a pollutant can achieve the MLs necessary to assess the need for effluent limitations or to monitor compliance with a permit limitation.

A. Monitoring Location (EFF-1)

1. The Discharger shall analyze representative samples of the effluent as follows:

Table E-2. Effluent Monitoring

| Parameter | Units | Sample Type | Minimum Sampling Frequency |
|-----------------------------|------------|-------------|----------------------------|
| pH | pH Units | Grab | Start-up then Annually |
| Total Suspended Solids | mg/L | Grab | Start-up then Annually |
| Total Dissolved Solids | mg/L | Grab | Start-up then Annually |
| Temperature | °F | Grab | Start-up then Annually |
| Turbidity | NTU | Grab | Start-up then Annually |
| Dissolved Oxygen | mg/L | Grab | Start-up then Annually |
| Acute Toxicity ³ | % survival | Grab | Start-up then Annually |
| Chronic Toxicity | % survival | Grab | Start-up then Annually |

2. Flow Rate Monitoring: The Discharger shall continuously measure the volume and flow rate of water extracted from the well(s) and discharged to the storm drain system or surface water during treatment system operation. You shall monitor the flow at the influent (INF-1) and the effluent (EFF-1) locations. A treatment system operational log shall be maintained documenting periods of system operation, shut down, and maintenance.

VII. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. Acute and Chronic Toxicity Testing

1. Prior to or during the groundwater treatment system start-up, Dischargers shall collect and analyze at least one effluent sample (EFF-1) for acute toxicity according to the EPA method and species listed below:

Table E-3. Acute Toxicity Test Methods

| EPA Method | Freshwater methods ¹ : |
|------------|---|
| 2000.0 | Fathead Minnow (<i>Pimephales promela</i>) and Bannerfin shiner (<i>Cyprinella leedsii</i>) |
| 2002.0 | Daphnia (<i>Ceriodaphnia dubia</i>) |
| 2019.0 | Rainbow trout (<i>Oncorhynchus mykiss</i>) and Brook trout (<i>Salvelinus fontinalis</i>) |
| 2021.0 | <i>Daphnia pulex</i> and <i>Daphnia magna</i> |

³ Collect samples and analyze according to EPA Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition, October 2002 (EPA-821-R-02-012)

| EPA Method | Marine/Estuarine methods ¹ |
|------------|--|
| 2004.0 | Sheepshead minnow (<i>Cyprinodon variegatus</i>) |
| 2006.0 | Silverside (<i>Menidia beryllina</i> , <i>Menidia menida</i> , and <i>Menida peninsulae</i>) |
| 2007.0 | Mysid (<i>Americamysis bahia</i>) |

¹ Dischargers shall choose the most-sensitive species that may be expected to live in the surface water body where effluent is being discharged into.

- Prior to or during the groundwater treatment system start-up, Dischargers shall collect and analyze at least one effluent sample (EFF-1) for chronic according to the EPA method and species listed below:

Table E-4. Chronic Toxicity Test Methods¹

| EPA Method | Freshwater methods ² : |
|------------|---|
| 1000.0 | Fathead Minnow (<i>Pimephales promela</i>) larval survival and growth |
| 1001.0 | Fathead Minnow (<i>Pimephales promela</i>), larval survival and teratogenicity |
| 1002.0 | Daphnia (<i>Ceriodaphnia dubia</i>), survival and reproduction |
| 1003.0 | Green alga, (<i>Selenastrum capricornutum</i>), growth |
| EPA Method | Marine/Estuarine methods ³ |
| 1004.0 | Sheepshead minnow (<i>Cyprinodon variegatus</i>), larval survival and growth |
| 1005.0 | Sheepshead minnow (<i>Cyprinodon variegatus</i>), embryo-larval survival and teratogenicity |
| 1006.0 | Inland Silverside (<i>Menidia beryllina</i>), larval survival and growth |
| 1007.0 | Mysid (<i>Americamysis bahia</i>), survival, growth and fecundity |
| 1008.0 | Sea urchin (<i>Arbacia punctulata</i>), fertilization |

¹Dischargers shall choose the most-sensitive species that may be expected to live in the surface water body where effluent is being discharged into.

² See <https://www.epa.gov/cwa-methods/chronic-toxicity-freshwater-wet-methods> for more information.

³ See <https://www.epa.gov/cwa-methods/chronic-toxicity-marine-and-estuarine-wet-methods> for more information.

- Annually, Dischargers must collect and analyze one effluent sample (EFF-1) for both acute and chronic toxicity.

VIII. RECEIVING WATER MONITORING REQUIREMENTS MONITORING LOCATION

- The Discharger shall keep a log of the receiving water conditions throughout the reach bounded by stations RSW-1U and RSW-1D. At a minimum of quarterly, the discharger shall record the visual observations made of the receiving water for the presence or absence of:

Table E-5. Receiving Water Monitoring Requirements

| Observation | Minimum Frequency |
|-------------|-------------------|
|-------------|-------------------|

| | |
|---|-------------------------|
| Floating or suspended matter in the water | Start-up then Quarterly |
| Discoloration of the water | Start-up then Quarterly |
| Bottom deposits | Start-up then Quarterly |
| Visible films, sheens, or coatings | Start-up then Quarterly |
| Fungi, slimes, or objectionable growths | Start-up then Quarterly |
| Potential nuisance conditions (e.g. odor) | Start-up then Quarterly |

IX. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.

1. **Start-up Report:** A report on the start-up phase shall be submitted to the Central Coast Water Board no more than fifteen days after the end of the start-up phase. This report shall include field logs of observations and measurements, laboratory results, and a certification that a professional engineer or geologist certified in California oversees the treatment system operation and maintenance activities.

B. Self-Monitoring Reports (SMRs)

1. The Discharger shall electronically submit SMRs and laboratory data using the State Water Board’s California GeoTracker database⁴. (California Code of Regulations Sections 3890-3895). The quarterly reports shall contain, at a minimum:
 - a) Results from the monitoring specified above. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, constituents, and concentrations are readily discernible. The Discharger shall summarize the data to clearly illustrate whether the discharge complies with the General Permit and MRP No. R3-2016-0035 requirements.
 - b) A treatment system operation log including system operation and shut-down periods, maintenance, and any non-routine operational changes made to the groundwater extraction, treatment and discharge system during the reporting period.
 - c) A table and description of the treatment system flow rate and mass removed including: quarterly and cumulative extraction and discharge water volumes and flow rates, quarterly and cumulative contaminant removal estimates.
 - d) A detailed discussion of treatment system performance, including recommended modifications.
 - e) A site map showing extraction wells, monitoring wells, and the storm drain, or surface water, discharge location.
 - f) A treatment system diagram/schematic showing system configuration and associated piping, flow path, and sampling locations.
 - g) A signed letter, certifying compliance with this General Permit.

⁴ The federal and Central Coast standard provisions require Dischargers with individual NPDES permits to submit SMRs to the CIWQS database. Because this is a general permit and these discharges are associated with groundwater cleanup cases, Central Coast Water Board staff modified the SMR section to require Dischargers to upload SMRs to the GeoTracker database, which is consistent with the Dischargers’ other reporting requirements associated with their groundwater cleanup case, thus eliminating duplicative reporting requirements.

If the Discharger monitors any pollutant at the locations designated herein more frequently than is required by this Monitoring and Reporting Program, the results of such monitoring shall be included in the monitoring reports. In addition, the Discharger shall report all constituents detected above the method detection limit.

Table E-6. Monitoring Periods and Reporting Schedule

| Sampling Frequency | Monitoring Period Begins On... | Monitoring Period | SMR Due Date |
|---------------------------|---|---|--|
| Treatment System Start-up | Date system started | 7 to 14 days | 15 days after system start-up |
| Quarterly | Closest of January 1, April 1, July 1, or October 1 following (or on) treatment system start-up | January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31 | 30-days after the end of the monitoring period |

2. 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 40 C.F.R. 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. 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.

3. Compliance Determination. Compliance with effluent limitations for priority pollutants shall be determined using sample reporting protocols defined above. For purposes of reporting and

administrative enforcement by the Central Coast Water Board and State Water Board, the Discharger shall be deemed out of compliance with effluent limitations if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reporting level (RL).

4. Multiple Sample Data. When determining compliance with an AMEL, for priority pollutants and more than one sample result is available, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of "Detected, but Not Quantified" (DNQ) or "Not Detected" (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:
 - a. The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
 - b. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.
5. The Discharger shall submit SMRs in accordance with the following requirements:
 - a. 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 effluent limitations.
 - b. The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the waste discharge requirements; 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)

1. DMRs are U.S. EPA reporting requirements. In the future, Dischargers may be required to electronically certify and submit DMRs together with SMRs using Electronic Self-Monitoring Reports module eSMR 2.5 or any upgraded version. Electronic DMR submittal would be in addition to electronic SMR submittal. Information about electronic DMR submittal is available at the DMR website at:
<http://www.waterboards.ca.gov/water_issues/programs/discharge_monitoring>.

ATTACHMENT F – FACT SHEET

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ATTACHMENT F – FACT SHEET

As described in section II.B of this Order, the Central Coast Water Board incorporates this Fact Sheet as findings of the Central Coast Water Board supporting the issuance of this Order. This Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order.

This Order has been prepared under a standardized format to accommodate a broad range of discharge requirements for Dischargers in California. Only those sections or subsections of this Order that are specifically identified as “not applicable” have been determined not to apply to this Discharger. Sections or subsections of this Order not specifically identified as “not applicable” are fully applicable to this Discharger.

I. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

Table F-1. Facility Information

Table F-1. Discharger Information

| | |
|-----------------------------|--|
| Discharger Types | Any person, partnership, firm, corporation, association, trust estate, or any other legal entity. |
| Facility Address | Locations throughout the Central Coast Region. |
| Facility Types | Groundwater extraction and treatment operations at any active or inactive leak and spill cleanup sites. |
| Waste Types | Petroleum or other chemicals, such as perchlorate or chlorinated solvents, which were discharged from USTs, dry cleaners, oil field operations, or other industrial operations. Wastes may be generated by aquifer pumping tests; dual-phase extraction or other remedial pilot tests; excavation dewatering; and pumping to contain groundwater plumes. |
| Discharge Flow Rates | These discharges may be treated and discharged on either continuous or batch bases. Discharge flow rates must comply with the rates specified in this Order and may not exceed 0.2 million gallons per day (MGD) for continuous discharges or 0.25 MGD for batch discharges up to 30 days. |

Discharges to the discharge locations identified below are subject to waste discharge requirements as set forth in this Order.

Table F-2. Discharge Locations

| Discharge Point(s) | Effluent Description | Discharge Point Latitude | Discharge Point Longitude | Discharge Point Description |
|---------------------------|-----------------------------|---------------------------------|----------------------------------|------------------------------------|
| 001 | Highly Treated Groundwater | Varies per discharge | Varies per discharge | Varies per discharge |

Table F-3. Administrative Information

| | |
|--|------------------|
| This Order was adopted on: | December 8, 2016 |
| This Order shall become effective on: | January 29, 2017 |
| This Order shall expire on: | January 27, 2022 |
| The U.S. Environmental Protection Agency (U.S. EPA) and the California Regional Water Quality Control Board, Central Coast Region have classified this discharge as follows: | Minor discharge |

II. FACILITY DESCRIPTION

Because leak and spill sites can be located at active or inactive, private, public, residential, or industrial properties in either rural communities or highly populated areas, the layout of each facility will differ based on the facility configuration and how the site is currently being used.

To be considered for enrollment under this Order, extracted groundwater at leak and spill sites must be highly treated prior to discharge. Simple groundwater treatment is generally performed using double-redundant treatment units and commonly involves conventional granular activated carbon (GAC) filtration systems. GAC units typically consist of three carbon vessels in series. Each carbon vessel is designed and sized to treat the worst case influent waste design loading for the sampling period and is required to ensure that the system poses no significant threat to water quality and protects beneficial uses of the receiving water. For highly polluted groundwater, the treatment system may include additional vessels and treatment types to remove all detected wastes that exist above water quality standards.

Treated groundwater may be discharged continuously or on a batch basis to surface waters. Treated groundwater must also be discharged at low flow rates as specified in this Order. The intent of the low flow is to limit is to ensure that the groundwater extraction and treatment system poses no significant water quality and protects beneficial uses of the receiving water.

Discharges to locations identified below are subject to waste discharge requirements as set forth in this Order.

A. Types of Discharges Covered by this General Permit

Below is a list of discharges potentially meeting the above stated criteria. This is not a complete list of discharges eligible for consideration of coverage under the General Permit. Other proposed discharges may be submitted to the Central Coast Water Board for consideration of coverage. Also, local governmental agencies may require additional to or more stringent than controls or management measures for discharges occurring within their jurisdiction than the controls specified in this General Permit.

- **Highly treated groundwater:** Discharge of highly treated groundwater extracted and treated for the purpose of cleaning up groundwater degraded by chemicals like petroleum, perchlorate, chlorinated solvents, or PCBs from USTs and aboveground storage tanks, petroleum refining facilities, drycleaners, ammunition manufacturing operations, or any other sources of pollution.
- **Aquifer test water:** Discharge of highly treated groundwater extracted and treated for the purpose of conducting aquifer pumping tests to evaluate remedial alternatives at cleanup sites.
- **Dual-phase extraction test water:** Discharge of highly treated groundwater extracted and treated for the purpose of conducting dual-phase (vapor and water), extraction pilot tests, or other approved groundwater treatment system pilot test to evaluate remedial alternatives.
- **Excavation dewatering:** Discharge of highly treated groundwater generated during removal and installation of underground storage tanks and during the excavation of contaminated soils.

Discharges with low threat to water quality generally have low flows. The following guidelines generally define low flows:

Table F-4: Flow Rates for Continuous Discharges

| Type of Continuous Discharge | Max Daily Flow (million gallons per day - MGD) |
|------------------------------|--|
| Treated Groundwater | 0.20 |
| Other Low Threat | 0.20 |

Table F-5: Flow Rates for Intermittent or One-Time Discharges

| Type of Intermittent/ One-Time Discharge | Max Daily Flow (MGD) | Duration |
|---|----------------------|----------|
| (Treated) Aquifer Pumping-Test Water | 0.20 | 1 Month |
| (Treated) Dual-Phase Extraction, or Other Extraction Pilot Test Water | 0.20 | 1 Month |
| (Treated) UST or Contaminated Soil Excavation Water | 0.25 | 1 Month |

USEPA and State Water Resources Control Board classify these discharges as minor discharges. These discharges may be treated and discharged on either continuous or batch bases.

This General Permit meets the requirements of 40 CFR 122.28(a)(2)(ii). The categories of waste discharge permitted under this order:

- a. Involve similar threats to water quality.
- b. Discharge similar type of wastes.
- c. Require similar effluent limitations.
- d. Require similar monitoring.
- e. Are more appropriately controlled under a general permit than by individual permits.

Existing and future discharges of extracted and treated groundwater to surface waters of the Central Coast Region from groundwater cleanup projects:

- a. Result from similar operations: all involve extraction, treatment and discharge of groundwater.
- b. Are the same type of waste: all are groundwater treated for the removal of contaminants present from leaks and spills of hazardous materials.
- c. Require similar effluent limitations for discharge to surface waters in the Central Coast Region.
- d. Require similar minimum frequency of monitoring.
- e. Are more effectively regulated with a general NPDES permit rather than by individual permits.

This General Permit, therefore, establishes requirements for regulation of discharges of extracted and highly treated groundwater resulting from cleanup of contaminants at spill sites that can be effectively regulated through a general NPDES permit.

B. Types of Discharges *Not* Covered by this General Permit

Discharges that may be a significant threat to water quality and which are therefore excluded from coverage under this General Permit include (1) discharges from domestic wastewater treatment facilities; (2) discharges from secondary containment structures; (3) discharges exhibiting acute or

chronic toxicity, containing chemical or organic constituents above water quality objectives or having a temperature adversely impacting beneficial uses; and (4) discharges that are regulated under another general or individual NPDES permit.

III. BACKGROUND INFORMATION

In 1972, the federal water pollution control act (Clean Water Act [CWA]) was amended to prohibit the discharge of pollutants to waters of the United States from any point source unless the discharge is in compliance with a national pollutant discharge elimination system (NPDES) permit. The federal regulations allow authorized states to issue general NPDES permits or individual NPDES permits to regulate discharges of pollutants to waters of the United States.

The September 22, 1989 memorandum of agreement between the U.S. EPA and the State Water Resources Control Board (State Water Board) authorized and established procedures for the State Water Board to issue general NPDES permits pursuant to CFR 122.28 and 122.44.

The purpose of general permits is to facilitate permitting of discharges that the Central Coast Water Board determines to be of low threat in a timely and cost-effective manner. General permits can be used in concert with the Central Coast Water Board's general waiver policy for regulating low threat discharges to land; this permit does not eliminate the general waiver, but provides an option for regulation of discharges to surface waters.

On December 7, 2001, the Central Coast Water Board adopted Order No. 01-134 (NPDES No. CAG993002) for Discharges of Highly Treated Groundwater to Surface Waters; The Central Coast Water Board subsequently adopted Order No. R3-2006-0067 and Order No. R3-2011-0222 for similar discharges. The current order (No. R3-2011-0222) expired on December 1, 2016, and this order replaces it.

Since 2001, the Central Coast Water Board has enrolled approximately 40 dischargers under the General Permit. When water quality objectives are attained and the cleanup case is closed, Dischargers no longer need to operate groundwater extraction systems and cease discharging. At least four of the five authorized dischargers will wish to continue their coverage under the General Permit¹. Unless they submit notices of termination or staff notifies authorized dischargers that they no longer qualify for General Permit coverage, these five dischargers will automatically be reenrolled in the reissued permit. Streamlining the permitting process through renewal of this General Permit will result in the appropriate regulation of many discharges of highly treated groundwater to surface waters in the Central Coast Region.

Since the Central Coast Water Board adopted the 2001 General Permit, the State Water Board has prepared several statewide general permits in an effort to promote consistency among the nine regional boards and to streamline our agency's permitting process. Central Coast Water Board staff hope that the State Water Board consider adopting a statewide permit in the future for these types of highly treated groundwater discharges.

IV. CRITERIA FOR ENROLLMENT UNDER THIS GENERAL PERMIT

The General Permit covers all new or existing discharges of highly treated groundwater to surface waters. To be covered by the General Permit, discharges must meet the following criteria:

¹ In 2017, Shell will have completed its restoration efforts at the former Shell Hercules Gas Plant cleanup site in Santa Barbara County. At that time, Shell is expected to submit a notice of termination for enrollment in the subject permit.

1. Pollutant concentrations in the discharge do not (a) cause or (b) contribute to an excursion above any applicable water quality objectives, including prohibitions of discharge, in the receiving water. Pollutant discharges that have a reasonable potential to cause or contribute to an excursion above any water quality objective must meet applicable effluent limitations.
2. The discharge does not include water added for the purpose of diluting pollutant concentrations.
3. Pollutant concentrations in the discharge will not cause or contribute to degradation of water quality or impair beneficial uses of receiving waters.

V. APPLICATION REQUIREMENTS

1. Dischargers satisfying the following criteria and criteria stated in Finding No. 2 of the Order are eligible for authorization to discharge by this General Permit, provided:
 - a. The Discharger submits a complete NOI (see form in Attachment B) and appropriate first annual fee for each discharge.
 - b. The Discharger submits the following:
 1. If the proposed discharge is to the Monterey Bay National Marine Sanctuary, the Discharger must provide a copy of the Sanctuary's authorization letter.
 2. A list of all chemicals (including Material Safety Data Sheets) added to the water and the concentration of such additives in the discharged effluent.
 3. Unless the discharge meets all requirements for a conditional exception (State Implementation Policy Section 5.3), or is solely an ocean surface water discharge as defined in the State Implementation Policy, the Discharger must provide certified analytical results of the effluent for inland surface waters, enclosed bays, and estuaries priority toxic pollutants and other constituents listed in Table 4. These analyses are required to fulfill the requirements set forth in the California Toxics Rule to evaluate the potential for water quality degradation and to establish effluent limits.
 4. If the discharge is solely an ocean surface water discharge as defined in the State Implementation Policy, the Discharger must provide certified analytical results of the effluent for ocean discharge priority toxic pollutants listed in Table 4. These analyses are required to fulfill the requirements set forth in the Ocean Plan to evaluate the potential for ocean water quality degradation.
 5. In addition to the requirements of (1) and (2) above, discharges to inland surface waters, enclosed bays, and estuaries must submit certified analytical results of a representative sample of the effluent for the following: total chlorine, pH, nitrate, turbidity, and total dissolved solids.
 6. In addition to the requirements of (1) and (3) above, discharges solely to ocean waters must submit certified analytical results of a representative sample of the effluent for the following: **oil and grease, suspended solids, settleable solids, turbidity, ph, and acute toxicity.**
 7. In addition to the requirements of (1), (2), (3), and (5) above, flow through seawater systems with potential to contain fecal pollution must submit certified analytical results of a representative sample of the effluent for **total coliform.**

8. Certified analytical results of a representative sample of the receiving surface water at a point 50-feet upstream and 50-feet downstream from the point of discharge into the receiving water, or if access is limited, at the first point upstream and downstream which is accessible for the following constituents: **pH, temperature, color, turbidity, and dissolved oxygen.**
 9. For proposed low threat discharges from a yet-to-be constructed facility, analytical results for similar existing systems, or anticipated results based on specific facility design, will be adequate for submittal with the NOI. As part of facility startup, the Discharger shall submit all analytical results required in the Application Requirements of this Order.
 10. If the effluent concentration of any constituent sampled under (2) or (3) above exceeds the applicable criterion listed in Table 4, the Discharger may submit the reasonable potential analysis in Section 1.3 of the State Implementation Policy or Appendix VI of the Ocean Plan, as applicable. If the Discharger elects not to submit the reasonable potential analysis, or if the Executive Officer determines that one or more constituents would require effluent limitations, then the discharge is not eligible for coverage under this General Permit and the Discharger is required to obtain coverage under an individual permit or coverage by a different general NPDES permit. This provision only applies to effluent limitations for priority toxic pollutants (State Implementation Policy) or Table B Water Quality Objectives (Ocean Plan). For Dischargers already enrolled in this permit, General Permit coverage shall continue until the Discharger receives an individual permit or enrolls under another applicable general permit. Authorization for coverage under this General Permit may be revoked in the event of violations of receiving water limitations, which includes causing or contributing to water quality objective/criteria excursions.
- C.** If the Discharger is seeking an exception under Section 5.3 of the State Implementation Policy, the Discharger shall submit the following information and receive subsequent Executive Officer approval:
- A detailed description of the proposed action (i.e., pump and treat system, well purging, etc.), including the proposed method of completing the action;
 - A time schedule;
 - A discharge and receiving water quality monitoring plan (before project initiation, during the project, and after project completion, with the appropriate quality assurance and quality control procedures);
 - Completed CEQA documentation;
 - Contingency plans;
 - Identification of alternate water supply (if needed);
 - Residual waste disposal plans;
 - Evidence that the Discharger has notified potentially affected public and governmental agencies of the project.

- Upon completion of the project, the discharger shall provide certification by a qualified biologist that the receiving water beneficial uses have been restored.
 - 1. The Discharger, upon request, submits any additional information the Central Coast Water Board determines is necessary to ascertain whether the discharge meets criteria for authorization under this permit.
 - 2. If the Discharger discharges wastewater to or from property not owned by the Discharger and/or is leased or rented by the Discharger, then a letter, signed by the property owner, authorizing the discharge of wastewater to or from his/her property shall be kept with the General Permit, where it will be available to operating personnel. If the discharge is to a storm water conveyance system, then notification must be sent to the owner of the storm water conveyance system.
 - 3. If the discharge exceeds 0.3 MGD and is longer than six months in duration or if the discharge qualifies for a State Implementation Policy Categorical Exception then, the Discharger shall submit a contingency plan to immediately address violations or threatened violations of water quality standards (as described in the Standard Provisions).
- D. After submittal of an NOI and first annual fee, the Discharger will receive one of the following:
- 1. Written authorization and effective date of permit coverage;
 - 2. Request to submit an application and consideration for coverage under another general or individual permit; or
 - 3. Written notification of exclusion (NOE) of enrollment under this General Permit.

In no case may the discharge occur until the applicant receives written confirmation of enrollment from the Central Coast Water Board.

- E. Authorization to discharge under this General Permit shall terminate upon receipt of a Notice of Termination (see Attachment C for a copy of this form), adoption of an individual permit, or coverage by a different general NPDES permit.
- F. As of the effective date of this Order, Dischargers covered under Order No. R3-2011-0222 shall be enrolled under Order No. R3-2016-0035. Such Dischargers must comply with all requirements of Order No. R3-2016-0035 beginning with the effective date. Dischargers who are reenrolled shall comply with all provisions of the reissued General Permit. The analytical results required by Section A - Application Requirements of this Order shall be submitted with the Discharger's next annual report or on the date(s) specified in the Monitoring and Reporting Program.

VI. APPLICABLE PLANS, POLICIES, AND REGULATIONS

The requirements contained in this Order are based on the requirements and authorities described in this section.

A. Legal Authorities

This Order serves as WDRs pursuant to article 4, chapter 4, division 7 of the California Water Code (commencing with section 13260). This Order is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. EPA and chapter 5.5, division 7 of the Water Code (commencing with section 13370). It shall serve

as an NPDES permit authorizing enrolled Dischargers to discharge into waters of the United States.

B. California Environmental Quality Act (CEQA)

Under Water Code section 13389, this action to adopt an NPDES permit is exempt from the provisions of Chapter 3 of CEQA, (commencing with section 21100) of Division 13 of the Public Resources Code.

C. State and Federal Laws, Regulations, Policies, and Plans

1. **Water Quality Control Plan.** The Central Coast Water Board adopted the Water Quality Control Plan for the Central Coastal Basin (Basin Plan), which designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for receiving waters addressed through the Basin Plan.

In addition, the Basin Plan implements State Water Board Resolution No. 88-63, which establishes State policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply.

In accordance with Chapter 2 of the Basin Plan, surface water bodies may not have beneficial uses specifically identified by the Basin Plan, such as an unnamed ephemeral receiving stream. Assigned beneficial uses for all surface waters include: municipal and domestic supply; and protection of both recreation and aquatic life.

In accordance with Chapter 2 of the Basin Plan, specific surface water bodies may have beneficial uses identified by the Basin Plan. Assigned beneficial uses may or may not include the following uses:

2. **Thermal Plan.** The State Water Board adopted the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California (Thermal Plan) on January 7, 1971, and amended this plan on September 18, 1975. This plan contains temperature objectives for surface waters. Requirements of this Order implement the Thermal Plan.
3. **Sediment Quality.** The State Water Board adopted the Water Quality Control Plan for Enclosed Bays and Estuaries – Part 1, Sediment Quality on September 16, 2008, and it became effective on August 25, 2009. This plan supersedes other narrative sediment quality objectives, and establishes new sediment quality objectives and related implementation provisions for specifically defined sediments in most bays and estuaries. Requirements of this Order implement sediment quality objectives of this Plan.
4. **National Toxics Rule (NTR) and California Toxics Rule (CTR).** U.S. EPA adopted the NTR on December 22, 1992, and later amended it on May 4, 1995 and November 9, 1999. About forty criteria in the NTR applied in California. On May 18, 2000, U.S. EPA adopted the CTR. The CTR promulgated new toxics criteria for California and, in addition, incorporated the previously adopted NTR criteria that were applicable in the state. The CTR was amended on February 13, 2001. These rules contain federal water quality criteria for priority pollutants as well as aquatic toxicity.
5. **State Implementation Policy.** On March 2, 2000, the State Water Board adopted the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the U.S. EPA through the NTR and to the priority pollutant objectives established by the Central

Coast Water Board in the Basin Plan. The SIP became effective on May 18, 2000, with respect to the priority pollutant criteria promulgated by the U.S. EPA through the CTR. The State Water Board adopted amendments to the SIP on February 24, 2005, that became effective on July 13, 2005. The SIP establishes implementation provisions for priority pollutant criteria and objectives and provisions for chronic toxicity control. Requirements of this Order implement the SIP.

In compliance with the SIP, applicants applying for coverage under this General Permit are required to sample representative influent (i.e., groundwater) for the priority pollutants listed in Table 4 of the General Permit. The priority pollutant list, their corresponding effluent limitations, minimum reporting levels, and acceptable analytical methods, can be found in 40 CFR 401.15 (or <https://www.gpo.gov/fdsys/pkg/CFR-2014-title40-vol29/xml/CFR-2014-title40-vol29-sec401-15.xml>). If the applicant detects a priority pollutant at a concentration greater than the effluent limitation, the applicant must treat extracted groundwater to below the effluent limitation. Treatment to remove any priority pollutants would be in addition to the treatment for the chemicals of concern (e.g. petroleum hydrocarbons, perchlorate, and chlorinated solvents) at the leak or spill site. The applicant would also be required to monitor the effluent for the exceeded priority pollutant(s) in accordance with the monitoring program established for the specific leak or spill site.

a) General Permit Applicants

In compliance with the SIP, applicants applying for coverage under this General Permit are required to sample representative influent (i.e., groundwater) for the priority pollutants. If the applicant detects a priority pollutant at a concentration greater than the effluent limitation, the applicant must treat extracted groundwater to below the effluent limitation listed in Table 4. Treatment to remove any priority pollutants would be in addition to the treatment for the chemicals of concern (e.g. petroleum hydrocarbons, perchlorate, and chlorinated solvents) at the leak or spill site. The applicant would also be required to monitor the effluent for the exceeded priority pollutant(s) in accordance with the monitoring program established for the specific leak or spill site.

b) Current Dischargers

In compliance with the SIP, current dischargers enrolled in General Permit No. R3-2011-0222 are also required to sample treatment system influent for the priority pollutants as a condition of re-enrollment in this General Permit. If the Discharger detects a priority pollutant in the influent at a concentration greater than the effluent limit in Table 4, the Discharger must immediately sample the effluent for the priority pollutant(s) detected above the effluent limit(s). The Discharger shall compare influent and effluent samples to determine if the treatment system is effectively removing the priority pollutant(s) below the effluent limit(s). The Discharger may redesign the treatment system to reduce all priority pollutant concentrations to below the effluent limit(s). Alternatively, the Discharger may choose to submit an NOT to terminate coverage under the General Permit.

If the Discharger does not detect a priority pollutant above the reporting limit, no more sampling is required. If the Discharger detects a priority pollutant above the reporting limit, but below the water quality criteria, the Discharger will be required to sample for that constituent quarterly.

6. **Domestic Water Quality.** In compliance with Water Code section 106.3, it is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This

Order promotes that policy by requiring discharges to meet maximum contaminant levels implemented by the Basin Plan that are designed to protect human health and ensure that water is safe for domestic use.

7. **Antidegradation Policy.** Federal regulation 40 C.F.R. section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution 68-16 ("Statement of Policy with Respect to Maintaining High Quality of Waters in California"). Resolution 68-16 is deemed to incorporate the federal antidegradation policy where the federal policy applies under federal law. Resolution 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Central Coast Water Board's Basin Plan implements, and incorporates by reference, both the State and federal antidegradation policies. The permitted discharge must be consistent with the antidegradation provision of 40 C.F.R. section 131.12 and State Water Board Resolution 68-16 because all effluent limitations are at least as stringent as the limitations contained in the previous permit.
8. **Anti-Backsliding Requirements.** Sections 402(o) and 303(d)(4) of the CWA and federal regulations at 40 C.F.R. section 122.44(l) restrict backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit must be as stringent as those in the previous permit, with some exceptions in which limitations may be relaxed. Because effluent limitations in this permit are as stringent as those in the previous permit, this permit complies with the anti-backsliding provisions.
9. **Endangered Species Act Requirements.** This Order does not authorize any act that results in the taking of a threatened or endangered species or any act that is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code, §§ 2050 to 2097) or the Federal Endangered Species Act (16 U.S.C.A. §§ 1531 to 1544). This Order requires compliance with effluent limits, receiving water limits, and other requirements to protect the beneficial uses of waters of the state, including protecting rare, threatened, or endangered species. The Discharger is responsible for meeting all requirements of the applicable Endangered Species Act.

D. Impaired Water Bodies on the CWA section 303(d) List

CWA Section 303(d) requires states to identify specific water bodies where water quality standards are not expected to be met after implementation of technology-based effluent limitations on point sources. For all Section 303(d) listed water bodies and pollutants, the Central Coast Water Board must develop and implement Total Maximum Daily Loads (TMDLs) that will specify Waste Load Allocations (WLAs) for point sources and Load Allocations for non-point sources. The USEPA approved the State's 2010 Section 303(d) list of impaired water bodies on November 12, 2010.

VII. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source dischargers to control the amount of conventional, non-conventional, and toxic pollutants that are discharged into the waters of the United States. The control of pollutants discharged is established through effluent limitations and other requirements in NPDES permits. There are two principal bases for effluent limitations in the Code of Federal Regulations: 40 C.F.R. section 122.44(a) requires that permits include applicable technology-based limitations and standards; and 40 C.F.R. section 122.44(d) requires that permits include water quality-based effluent limitations to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water.

A. Discharge Prohibitions

Discharge prohibitions are included in this General Permit and implement State Water Board Resolution No. 68-16 (Anti-Degradation Policy), the Basin Plan, and the Ocean Plan by prohibiting the creation of conditions of pollution or nuisance as well as sediment or aquatic toxicity. In addition, discharges shall not cause scouring or erosion at the point where it discharges into the receiving waters. The Central Coast Water Board's Discharge Prohibitions is listed in detail on page 3 of the subject permit.

B. Technology-Based Effluent Limitations

1. Scope and Authority

Section 301(b) of the CWA and implementing U.S. EPA permit regulations at 40 C.F.R. section 122.44 require that permits include conditions meeting applicable technology-based requirements at a minimum, and any more stringent effluent limitations necessary to meet applicable water quality standards.

The CWA requires that technology-based effluent limitations be established based on several levels of controls:

- a. Best practicable treatment control technology (BPT) represents the average of the best existing performance by well-operated facilities within an industrial category or subcategory. BPT standards apply to toxic, conventional, and non-conventional pollutants.
- b. Best available technology economically achievable (BAT) represents the best existing performance of treatment technologies that are economically achievable within an industrial point source category. BAT standards apply to toxic and non-conventional pollutants.
- c. Best conventional pollutant control technology (BCT) represents the control from existing industrial point sources of conventional pollutants including BOD, TSS, fecal coliform, pH, and oil and grease. The BCT standard is established after considering a two-part reasonableness test. The first test compares the relationship between the costs of attaining a reduction in effluent discharge and the resulting benefits. The second test examines the cost and level of reduction of pollutants from the discharge from publicly owned treatment works to the cost and level of reduction of such pollutants from a class or category of industrial sources. Effluent limitations must be reasonable under both tests.
- d. New source performance standards (NSPS) represent the best available demonstrated control technology standards. The intent of NSPS guidelines is to set limitations that represent state-of-the-art treatment technology for new sources.

The CWA requires U.S. EPA to develop effluent limitations, guidelines and standards (ELGs) representing application of BPT, BAT, BCT, and NSPS. Section 402(a)(1) of the CWA and 40 C.F.R. section 125.3 authorize the use of best professional judgment (BPJ) to derive technology-based effluent limitations on a case-by-case basis where ELGs are not available for certain industrial categories and/or pollutants of concern. Where BPJ is used, the Central Coast Water Board must consider specific factors outlined in 40 C.F.R. section 125.3.

C. Water Quality-Based Effluent Limitations (WQBELs)

1. Scope and Authority

CWA Section 301(b) and 40 C.F.R. section 122.44(d) require that permits include limitations more stringent than applicable federal technology-based requirements where necessary to achieve applicable water quality standards.

Section 122.44(d)(1)(i) of 40 C.F.R. requires that permits include effluent limitations for all pollutants that are or may be discharged at levels that have the reasonable potential to cause or contribute to an exceedance of a water quality standard, including numeric and narrative objectives within a standard. Where reasonable potential has been established for a pollutant, but there is no numeric criterion or objective for the pollutant, water quality-based effluent limitations (WQBELs) must be established using: (1) U.S. EPA criteria guidance under CWA section 304(a), supplemented where necessary by other relevant information; (2) an indicator parameter for the pollutant of concern; or (3) a calculated numeric water quality criterion, such as a proposed state criterion or policy interpreting the state’s narrative criterion, supplemented with other relevant information, as provided in section 122.44(d)(1)(vi).

The process for determining reasonable potential and calculating WQBELs when necessary is intended to protect the designated uses of the receiving water as specified in the Basin Plan, and achieve applicable water quality objectives and criteria that are contained in other state plans and policies, or any applicable water quality criteria contained in the CTR and NTR.

VII. APPLICABLE BENEFICIAL USES AND WATER QUALITY CRITERIA AND OBJECTIVES

The Central Coast Water Board has adopted the *Water Quality Control Plan for the Central Coastal Region* (the Basin Plan), which designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for receiving waters addressed through the Plan. In addition, the Basin Plan implements State Water Board Resolution No. 88-63, which establishes State policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply.

In accordance with Chapter 2 of the Basin Plan, surface water bodies may not have beneficial uses specifically identified by the Basin Plan, such as an unnamed ephemeral receiving stream. Assigned beneficial uses for all surface waters include: municipal and domestic supply; and protection of both recreation and aquatic life.

In accordance with Chapter 2 of the Basin Plan, specific surface water bodies may have beneficial uses identified by the Basin Plan. Assigned beneficial uses may include the following uses:

Table 6 Basin Plan Surface Water Assigned Beneficial Uses

| | |
|---|---|
| <ul style="list-style-type: none"> • Municipal and domestic water supply (MUN) • Agricultural supply (AGR) • Industrial supply (IND and PRC) • Ground water recharge (GWR) • Freshwater replenishment • Navigation (NAV) • Hydropower generation • Contact water recreation (REC-1) • Non-contact (REC-2) water recreation • Aquaculture • Wildlife habitat (WILD) • Cold freshwater habitat (COLD) | <ul style="list-style-type: none"> • Warm freshwater habitat (WARM) • Inland saline water habitat • Estuarine habitat • Marine habitat • Preservation of biological habitats of special significance • Migration of aquatic organisms (MIGR) • Spawning, reproduction, and/or early development (SPWN) • Rare, threatened or endangered species (RARE) • Commercial and sport fishing (COMM) • Shellfish harvesting • Areas of special biological significance |
|---|---|

Requirements of this Order implement the Basin Plan.

VIII. GROUNDWATER BENEFICIAL USES

Many surface waters within the Central Coast Region recharge underlying groundwater basins. Groundwater throughout the Central Coastal Region, except for that found in the Soda Lake Sub-basin, is suitable for:

Table 7. Groundwater Basin Plan Beneficial Uses

| | |
|---|---|
| <ul style="list-style-type: none">• Municipal and domestic water supply (MUN)• Agricultural supply (AGR) | <ul style="list-style-type: none">• Industrial supply (IND and PRC) |
|---|---|

IX. RATIONALE FOR RECEIVING WATER LIMITATIONS

A. Surface Water

The General Permit includes narrative and numeric water quality objectives for all surface waters, including wetlands, in the Central Coast Region. (Receiving water quality is a result of many factors, some unrelated to the discharge. This permit considers these factors, and is designed to minimize the influence of the discharge in the receiving water.)

The General Permit includes limitations for pH, temperature, color, turbidity, dissolved oxygen, biostimulatory substances, taste and odor, oil and grease, settleable and floating materials, toxicity, sediment, and radionuclides.

B. Groundwater

The General Permit includes narrative and numeric water quality objectives for all groundwater in the Central Coast Region.

X. RATIONALE FOR PROVISIONS

A. Standard Provisions

Standard Provisions, which apply to all NPDES permits in accordance with 40 C.F.R. section 122.41, and additional conditions applicable to specified categories of permits in accordance with 40 C.F.R. section 122.42, are provided in Attachment D. The Discharger must comply with all standard provisions and with those additional conditions that are applicable under section 122.42.

Sections 122.41(a)(1) and (b) through (n) of 40 C.F.R. establish conditions that apply to all state-issued NPDES permits. These conditions must be incorporated into the permits either expressly or by reference. If incorporated by reference, a specific citation to the regulations must be included in the Order. Section 123.25(a)(12) of 40 C.F.R. allows the state to omit or modify conditions to impose more stringent requirements. In accordance with 40 C.F.R. section 123.25, this Order omits federal conditions that address enforcement authority specified in 40 C.F.R. sections 122.41(j)(5) and (k)(2) because the enforcement authority under the Water Code is more stringent. In lieu of these conditions, this Order incorporates by reference Water Code section 13387(e).

B. Special Provisions

1. Reopener Provisions

The Order may be modified in accordance with the requirements set forth at 40 CFR 122 and 124, to include appropriate conditions or limits based on newly available information, or to implement any, new State water quality objectives that are approved by the USEPA. As effluent is further characterized through additional monitoring, and if a need for additional

effluent limitations becomes apparent after additional effluent characterization, the Order will be reopened to incorporate such limitations.

2. **Special Studies and Additional Monitoring Requirements** – not applicable
3. **Best Management Practices and Pollution Prevention** – not applicable
4. **Construction, Operation, and Maintenance Specifications** – not applicable

XI. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

Monitoring and Reporting requirements are used to characterize waste streams and receiving waters, evaluate wastewater treatment efficiency, and determine compliance with permit conditions. NPDES regulations at 40 CFR 122.48 require that all NPDES permits specify requirements for recording and reporting monitoring results. CWC §13267 and CWC §13383 also authorize the Central Coast Water Board to require technical and monitoring reports. Rationale for the monitoring and reporting requirements contained in the Monitoring and Reporting Program (MRP) in Appendix E.

Monitoring and Reporting Program (MRP) No. R3-2016-0035 is part of the General Permit. This general MRP No. R3-2016-0035 requires Dischargers to conduct routine treatment system influent, mid-point, and effluent monitoring in addition to receiving water monitoring to verify compliance with the General Permit and protection of water quality. The Executive Officer can modify MRP No. R3-2016-0035 to include a change in monitoring frequency or a change in constituents requiring monitoring.

XII. PUBLIC PARTICIPATION

The Central Coast Water Board is considering the issuance of WDRs that will serve as an NPDES permit for discharges of highly treated groundwater to surface water. As a step in the WDR adoption process, Central Coast Water Board staff has developed tentative WDRs and has encouraged public participation in the WDR adoption process.

A. Notification of Interested Parties

On September 23, 2016, the Central Coast Water Board notified Dischargers and other interested parties of the availability of the draft permit for review. The draft permit was also posted on the Central Coast Water Board's tentative order page website on September 23, 2016. The public notice was published in the following newspapers: *The Monterey Herald*, *The Santa Cruz Sentinel*, *The San Luis Obispo Tribune*, *The Morgan Hill Times*, and *Santa Barbara News-Press*.

The public had access to the agenda and any changes in dates and locations through the Central Coast Water Board's website at <http://www.waterboards.ca.gov/centralcoast/>

B. Written Comments

Interested persons were invited to submit written comments concerning tentative WDRs as provided through the notification process. Comments were due either in person or by mail to the Executive Office at the Central Coast Water Board at centralcoast@waterboards.ca.gov.

To be fully responded to by staff and considered by the Central Coast Water Board, the written comments were due at the Central Coast Water Board office by 5:00 p.m. on October 26, 2016.

The Central Coast Water Board received an email comment from the Monterey Bay National Marine Sanctuary (Sanctuary) on October 20, 2016. The sanctuary had two concerns: First, Sanctuary staff observed that although there are no current or proposed discharges into the

Sanctuary; a 2015 memorandum of agreement², requires any entity proposing to discharge highly treated groundwater into the Sanctuary to get the Sanctuary's authorization before Central Coast Water Board staff can enroll the discharger in this general permit. On Attachment C, Notice of Intent form, Verification Section VII, Central Coast Water Board staff added a note clarifying that the discharger must submit the Sanctuary's authorization letter as part of its application.

Sanctuary staff asked if this permit could be applied to a broader range of discharges, such as the reverse osmosis reject water discharged by the Cambria Community Service District (CCSD) to raise water levels in the San Simeon Creek Lagoon.³ Central Coast Water Board staff have determined that CCSD's discharges are better regulated under the General Permit for Discharges with Low Threat to Water Quality (Order No. R3-2011-0223) because the existing discharge to surface water does not require treatment at all. By contrast, the discharges regulated under this permit require extensive treatment prior to discharge to remove toxic constituents. If there is a need to use highly treated groundwater to maintain surface water levels in the future, the Central Coast Water Board will consider re-opening this permit to include these types of discharges if there is not another applicable permit in place.

C. Public Hearing

The Central Coast Water Board will hold a public hearing on the tentative WDRs during its regular Board meeting on the following date and time and at the following location:

Date: December 8, 2016
Time: 8:30 a.m.
Location: Watsonville City Council Chambers
275 Main Street – 4th Floor
Watsonville, California

Interested persons are invited to attend. At the public hearing, the Central Coast Water Board will hear testimony pertinent to the discharge, WDRs, and permit.

D. Reconsideration of Waste Discharge Requirements

Any aggrieved person may petition the State Water Board to review the decision of the Central Coast Water Board regarding the final WDRs. The petition must be received by the State Water Board at the following address within 30 calendar days of the Central Coast Water Board's action:

State Water Resources Control Board
Office of Chief Counsel
P.O. Box 100, 1001 I Street
Sacramento, CA 95812-0100

For instructions on how to file a petition for review, see:

http://www.waterboards.ca.gov/public_notices/petitions/water_quality/wqpetition_instr.shtml

² The memorandum of agreement was signed by the Sanctuary, USEPA, the California Coastal Commission, the State Water Board, San Francisco Bay Water Board, Central Coast Water Board, and the Association of Monterey Bay Area Governments.

³ For reference, the Cambria CSD is extracting a combination of secondary-treated municipal wastewater and natural groundwater from its percolation ponds, performing advanced water treatment, and injecting highly treated (i.e. disinfected) groundwater into the San Simeon Groundwater Basin for groundwater recharge/indirect potable reuse. The Cambria CSD also discharges water from its advanced water treatment system into San Simeon Creek to increase water levels in the lagoon and potentially decrease seawater intrusion.

E. Information and Copying

The draft permit, related documents, effluent limitations and special provisions, comments received, and other information are on file and may be inspected at the address above at any time between 8:00 a.m. and 5:00 p.m., Monday through Friday. Copying of documents may be arranged through the Central Coast Water Board by calling (805) 549-3147.

F. Register of Interested Persons

Any person interested in being placed on the mailing list for information regarding the WDRs and NPDES permit should contact the Central Coast Water Board, reference the name of the permit, and provide a name, address, phone number, and email address.

G. Additional Information

Requests for additional information or questions regarding this Order should be directed to **Jessica Taylor at (805) 542-4786 (Jessica.taylor@waterboards.ca.gov)** or Sheila Soderberg at (805) 549-3592 or sheila.soderberg@waterboards.ca.gov.