CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

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ORDER R4-2023-XXXX NPDES NUMBER. CA0109991

WASTE DISCHARGE REQUIREMENTS AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FOR THE CITY OF LOS ANGELES HYPERION WATER RECLAMATION PLANT

The following Discharger is subject to state waste discharge requirements (WDRs) and federal National Pollutant Discharge Elimination System (NPDES) permit requirements, as set forth in this Order:

Table 1. Discharger Information

Discharger	City of Los Angeles (City, Permittee, or Discharger)
Name of Facility	Hyperion Water Reclamation Plant (Facility or Hyperion WRP)
	12000 Vista del Mar Boulevard
Facility Address	Playa del Rey, CA 90293
_	Los Angeles County

Table 2. Discharge Location

Discharge Point	Effluent Description	Discharge Point Latitude (North-South)	Discharge Point Longitude (East-West)	Receiving Water
001(1-Mile Outfall)	Secondary treated wastewater	33.91833° N	118.44750 ° W	Pacific Ocean
002 (5-Mile Outfall) (Y- shaped diffuser)	Secondary treated wastewater	33.91197° N	118.52145° W	Pacific Ocean

Discharge Point	Effluent Description	Discharge Point Latitude (North-South)	Discharge Point Longitude (East-West)	Receiving Water
002 (5-Mile Outfall) (Y- shaped diffuser) North Leg	Secondary treated wastewater	33.91933° N	118.52848° W	Pacific Ocean
002 (5-Mile Outfall) (Y- shaped diffuser) South Leg	Secondary treated wastewater	33.90065° N	118.52727° W	Pacific Ocean

Table 3. Administrative Information for State Order

This Order was adopted on:	February 9, 2023
This Order shall become effective on:	April 1, 2023
This Order shall expire on:	March 31, 2028
The Discharger shall file a Report of Waste Discharge as an application for reissuance of WDRs in accordance with title 23, California Code of Regulations, and an application for reissuance of a National Pollutant Discharge Elimination System (NPDES) permit no later than:	180 days prior to the Order expiration date.
The U.S. Environmental Protection Agency (USEPA) Region 9 and the California Regional Water Quality Control Board, Los Angeles Region have classified this discharge as follows:	Major

I, Renee Purdy, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of the Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on the date indicated above.

Renee Purdy, Executive Officer

Table 4. Administrative Information for Federal Permit

This Order was adopted on:	February 9, 2023
This Order shall become effective on:	April 1, 2023
This Order shall expire on:	March 31, 2028

The Discharger shall file a Report of Waste Discharge as an application for reissuance of WDRs in accordance with title 23, California Code of Regulations, and an application for reissuance of a National Pollutant Discharge Elimination System (NPDES) permit no later than:	180 days prior to the Order expiration date.
The U.S. Environmental Protection Agency (USEPA) Region 9 and the California Regional Water Quality Control Board, Los Angeles Region have classified this discharge as follows:	Major

I, Tomás Torres, Water Division Director, do hereby certify that this Order with all attachments is a full, true, and correct copy of the Order adopted by the United States Environmental Protection Agency Region 9, on the date indicated above.

Tomás Torres, Water Division Director

TABLE OF CONTENTS

1. FACILITY INFORMATION	6
2. FINDINGS	
3. DISCHARGE PROHIBITIONS	7
4. EFFLUENT LIMITATIONS, PERFORMANCE GOALS, AND DISCHARGE	
SPECIFICATIONS	ç
4.1. Effluent Limitations and Performance Goals – Discharge Points 002 and 001	g
4.1.1. Final Effluent Limitations and Performance Goals – Discharge Point 00	2.9
4.1.2. Final Effluent Limitations– Discharge Point 001	
4.1.3. Other Final Effluent Limitations – Discharge Point 001 and 002	
4.1.4. Interim Effluent Limitations –Not Applicable	
4.2. Land Discharge Specifications –Not Applicable	
4.3. Recycling Specifications	17
5. MASS EMISSION BENCHMARKS	
6. RECEIVING WATER LIMITATIONS	
6.1. Surface Water Limitations	
6.2. Groundwater Limitations – Not Applicable	
7. PROVISIONS	
7.1. Standard Provisions	
7.2. Monitoring and Reporting Program (MRP) Requirements	28
7.3. Special Provisions	
7.3.1. Reopener Provisions	29
7.3.2. Special Studies, Technical Reports and Additional Monitoring	24
Requirements	
7.3.3. Best Management Practices and Pollution Prevention	
7.3.4. Construction, Operation and Maintenance Specifications	
7.3.5. Special Provisions for Publicly Owned Treatment Works (POTWs) 7.3.6. Collection System Requirements	
7.3.7. Spill Reporting Requirements for POTWs	
7.3.8. Other Special Provisions – Not Applicable	
7.3.9. Compliance Schedules – Not Applicable	
8. COMPLIANCE DETERMINATION	
0. OOM LIANOL BETERMINATION	🕶 1
TABLE OF TABLES	
TABLE OF TABLES	
TABLE 1. DISCHARGER INFORMATION	
TABLE 2. DISCHARGE LOCATION	
TABLE 3. ADMINISTRATIVE INFORMATION FOR STATE ORDER	
TABLE 4. ADMINISTRATIVE INFORMATION FOR FEDERAL PERMIT	2
TABLE 5. EFFLUENT LIMITATIONS AND PERFORMANCE GOALS FOR	
DISCHARGE POINT 002	10
TABLE 6. FINAL EFFLUENT LIMITATIONS FOR DISCHARGE POINT 001	
TABLE 7. 12-MONTH AVERAGE EFFLUENT MASS EMISSION BENCHMARKS	18

TABLE OF ATTACHMENTS

ATTACHMENT A – DEFINITIONS	A-1
ATTACHMENT B1 - MAP OF HYPERION WRP SURROUNDING AREA	B-1
ATTACHMENT B2 - SITE LAYOUT OF HYPERION WRP	B-2
ATTACHMENT B3 - HYPERION TREATMENT SYSTEM SERVICE AREA	B-3
ATTACHMENT C1 - PROCESS FLOW DIAGRAM OF HYPERION WRP	C-1
ATTACHMENT C2 - HYPERION WRP ONE-MILE OUTFALL CONNECTIONS	C-2
ATTACHMENT D - STANDARD PROVISIONS	D-1
ATTACHMENT E - MONITORING AND REPORTING PROGRAM	E-1
ATTACHMENT F - FACT SHEET	F-1
ATTACHMENT G - TOXICITY REDUCTION EVALUATION (TRE) WORK PLAN	G-1
ATTACHMENT H - BIOSOLIDS AND SLUDGE MANAGEMENT	H-1
ATTACHMENT I - PRETREATMENT REPORTING REQUIREMENTS	I-1
ATTACHMENT J - REASONABLE POTENTIAL ANALYSIS SUMMARY	J-1

1. FACILITY INFORMATION

Information describing the Hyperion Water Reclamation Plant (Facility, Hyperion WRP) is summarized on the cover page and in sections 1 and 3 of the Fact Sheet (Attachment F). Section 1 of the Fact Sheet also includes information regarding the Facility's permit application.

2. FINDINGS

The California Regional Water Quality Control Board, Los Angeles Region (Los Angeles Water Board) and the United States Environmental Protection Agency (USEPA) Region 9, find:

- 2.1. Legal Authorities. This Order/Permit serves as waste discharge requirements (WDRs) pursuant to article 4, chapter 4, division 7 of the California Water Code (CWC commencing with section 13260). This Order/Permit also serves as a National Pollutant Discharge Elimination System (NPDES) permit and is issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the USEPA and chapter 5.5, division 7 of the CWC (commencing with section 13370). Therefore, pursuant to 40 CFR § 124.4, this Order/Permit shall serve as a joint consolidated State and federal NPDES Permit authorizing the Permittee to discharge into waters of the United States at the discharge locations described in Table 2, subject to the limitations, conditions and all other requirements set forth herein (hereinafter "Order/Permit"), with the exception of the provisions in subsection 4.3, which are state law requirements only (as described in 2.3 below). The Permit is both a federal permit and a state permit by operation of law.
- 2.2. Background and Rationale for Requirements. The Los Angeles Water Board and USEPA Region 9 developed the requirements in this Order/Permit based on information submitted as part of the application, 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/Permit, is hereby incorporated into and constitutes Findings for this Order/Permit. Attachments A through J are also incorporated into this Order/Permit.
- 2.3. Provisions and Requirements Implementing State Law. The provisions/requirements in subsection 4.3 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.
- 2.4. Notification of Interested Parties. The Los Angeles Water Board and USEPA Region 9 have notified the City of Los Angeles (City) and interested agencies and persons of its intent to prescribe WDRs and NPDES permit requirements 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.

- 2.5. Consideration of Public Comment. The Los Angeles Water Board and USEPA Region 9, in a public meeting, heard and considered all comments pertaining to this Order/Permit. Details of the public meeting are provided in the Fact Sheet.
- 2.6. **Federal Permit Renewal Contingency**. The Permittee's federal NPDES permit renewal is contingent upon:
 - a. Determination by the US Fish and Wildlife Service (USFWS) and the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) that the discharge is consistent with the federal Endangered Species Act (ESA) of 1973, as amended (16 US Code (USC) section 1531 et seq.);
 - b. Determination by the California Coastal Commission (CCC) that the proposed discharge is consistent with the Coastal Zone Management Act (CZMA) of 1972, as amended (16 USC. section 1451 et seq.); and
 - c. The Los Angeles Water Board's certification/concurrence that the discharge will comply with applicable State water quality standards.

THEREFORE, IT IS HEREBY ORDERED, that this Order/Permit supersedes Order Number R4-2017-0045 except for enforcement purposes, and, in order to meet the provisions contained in division 7 of the CWC (commencing with section 13000) and regulations adopted thereunder, and the provisions of the CWA and regulations and guidelines adopted thereunder, the Permittee shall comply with the requirements in this Order/Permit. This action in no way prevents the Los Angles Water Board or USEPA Region 9 from taking enforcement action for past violations of the previous Order/Permit.

3. DISCHARGE PROHIBITIONS

- 3.1. Discharges to Discharge Point 001 (1-Mile Outfall) are prohibited, except during the following situations, provided that the use of Discharge Point 002 (5-Mile Outfall) is maximized and that the Los Angeles Water Board and USEPA Region 9 are notified as described below:
 - a. Emergency discharge of disinfected secondary effluent when the flow rate exceeds the hydraulic capacity of Discharge Point 002 (720 million gallons per day (MGD)) and/or the hydraulic capacity of the effluent pumping plant;
 - Emergency discharge of disinfected secondary effluent and/or stormwater during power outages in which back-up power supplies are inoperable or insufficient to pump all the secondary effluent through Discharge Point 002 and/or to pump stormwater from the North, South, or Central Stormwater Pump Stations;
 - Discharge of disinfected secondary effluent during planned preventative maintenance such as routine opening and closing of the outfall gate valves for exercising and lubrication;

- d. Discharge of stormwater flow during wet weather if the runoff rate of stormwater exceeds the capacity of the pumps at the North, South, or Central Stormwater Pump Stations; or
- e. Discharge of disinfected secondary effluent, stormwater, and/or brine during major planned capital improvement projects when there is no other feasible alternative. Projects warranting such a diversion will be considered on a case-by-case basis and must be approved by the Los Angeles Water Board Executive Officer and USEPA Region 9 Water Division Director prior to diverting flow to the 1-Mile Outfall.

The Permittee shall notify the Los Angeles Water Board and USEPA Region 9 a minimum of 30 days prior to discharging final effluent from Discharge Point 001 during a planned diversion such as preventative maintenance or capital improvement projects. This notification shall include the rationale for the discharge, the expected time, date, the duration of the discharge, and confirmation that the diversion structure and surge chamber have been inspected for debris within one month prior to the discharge.

- 3.2. The discharge of any radiological, chemical, or biological warfare agent or high-level radioactive waste into the ocean is prohibited.
- 3.3. Discharge to designated Areas of Special Biological Significance is prohibited.
- 3.4. Pipeline discharge of sludge to the ocean is prohibited by federal law. The discharge of municipal and industrial waste sludge directly to the ocean, or into a waste stream that discharges to the ocean, is prohibited by the California Ocean Plan. The discharge of sludge digester supernatant directly to the ocean, or to a waste stream that discharges to the ocean without further treatment, is prohibited.
- 3.5. The treatment, use, and disposal of sewage sludge shall be carried out in the manner found to have the least adverse impact on the total natural and human environment.
- 3.6. The bypassing of untreated wastes containing concentrations of pollutants in excess of those of Table 3 or Table 4 of the 2019 Ocean Plan to the ocean is prohibited.
- 3.7. The bypass or overflow of untreated wastewater or wastes to surface waters or surface water drainage courses is prohibited, except as allowed in Standard Provision 1.7 of Attachment D, Standard Provisions.
- 3.8. Discharge of treated wastewater at a location different from that described in this Order/Permit is prohibited.
- 3.9. The monthly average effluent dry weather discharge flow rate from the collection system to the headworks of the Facility shall not exceed the dry weather flow capacity of 450 MGD.
- 3.10. The discharge of trash to surface waters of the State or the deposition of trash where it may be discharged into surface waters of the State is prohibited.

4. EFFLUENT LIMITATIONS, PERFORMANCE GOALS, AND DISCHARGE SPECIFICATIONS

4.1. Effluent Limitations and Performance Goals – Discharge Points 002 and 001

Effluent limitations for Discharge Points 002 and 001 are specified below. The discharge of treated wastewater with constituents in excess of effluent limitations is prohibited.

The performance goals for Discharge Point 002 are prescribed below in this Order/Permit. Performance goals for the Hyperion WRP are based upon actual performance data, test method minimum levels, and effluent limits, and are specified only as an indication of the treatment efficiency of the plant. (Refer to Fact Sheet section 6.) Performance goals are not enforceable values but are used to evaluate the Facility's treatment efficiency. The Permittee shall maintain, if not improve, the effluent quality at or below the performance goal concentrations. Any two consecutive exceedances of a single performance goal shall trigger an investigation into the cause of the exceedance. If the exceedance persists in three successive monitoring periods, the Permittee shall submit a written report to the Los Angeles Water Board and USEPA Region 9 on the nature of the exceedance, the results of the investigation including the cause of the exceedance, the corrective actions taken, any proposed corrective measures, and a timetable for implementation, if necessary.

4.1.1. Final Effluent Limitations and Performance Goals – Discharge Point

The Permittee shall maintain compliance with the following effluent limitations at Discharge Point 002, with compliance measured at Monitoring Location EFF-002 as described in the attached Monitoring and Reporting Program (MRP).

ORDER XX-XXXX-XXX NPDES NO. CA0109991

 Table 5. Effluent Limitations and Performance Goals for Discharge Point 002

Parameter	Units	Average Monthly Effluent Limit	Average Weekly Effluent Limit	Maximum Daily Effluent Limit	Instantaneous Maximum Effluent Limit	Annual Average Effluent Limit	Average Monthly Performance Goal	Notes
Biochemical Oxygen Demand (BOD ₅ 20°C)	mg/L	30	45					а
BOD₅20°C	lbs/day	105,000	160,000					a, b
Total Suspended Solids (TSS)	mg/L	30	45					а
TSS	lbs/day	105,000	160,000					a, b
Oil and Grease (O&G)	mg/L	25	40		75			a, c
O&G	lbs/day	88,000	140,000		281,000			a, b, c
Settleable Solids	mL/L	1.0	1.5		3.0			a, c
Turbidity	NTU	75	100		225			a, c
Arsenic	μg/L						4.6	d
Cadmium	µg/L						0.22	d
Chromium (VI)	μg/L						5.0	d
Copper	µg/L	87		852	2382		40	a, c, d, e, f
Copper	lbs/day	305		3,000	8,300			a, b, c, d, e, f
Lead	μg/L						0.87	d
Mercury	μg/L						0.0051	d
Nickel	μg/L						18	d
Selenium	µg/L						2.8	d
Silver	μg/L						0.53	d
Zinc	μg/L						43	d
Cyanide, Total	μg/L						25	
Ammonia (as N)	mg/L	58		233	582		52	a, c, e, f, g
Ammonia (as N)	lbs/day	203,000		820,000	2,000,000			a, b, c, e, f, g
Chronic Toxicity	Pass or Fail (TST)			Pass				e, f, h, i
Phenols, Non-chlorinated	µg/L						5.0	j
Phenols, Chlorinated	μg/L						5.0	j
Endosulfans	μg/L						0.050	j
Endrin	μg/L						0.050	
Hexachlorocyclohexane (HCH)	μg/L						0.025	j
Radioactivity, Gross Alpha	pCi/L						9.0	
Radioactivity, Gross Beta	pCi/L						45	
Acrolein	μg/L						25	
Antimony	μg/L						3.8	d
Bis (2-chloroethoxy) methane	µg/L						25	
Bis (2-chloroisopropyl) ether	μg/L						10	
Chlorobenzene	μg/L						10	

TENTATIVE ORDER: 8/30/2022

ORDER XX-XXXX-XXX NPDES NO. CA0109991

Parameter	Units	Average Monthly Effluent Limit	Average Weekly Effluent Limit	Maximum Daily Effluent Limit	Instantaneous Maximum Effluent Limit	Annual Average Effluent Limit	Average Monthly Performance Goal	Notes
Chromium (III)	μg/L						1.9	d
Di-n-butyl phthalate	μg/L						50	
Dichlorobenzenes	μg/L						5.0	j
Diethyl phthalate	μg/L						10	
Dimethyl phthalate	μg/L						10	
4,6-dinitro-2-methylphenol	μg/L						25	
2,4-dinitrophenol	μg/L						25	
Ethylbenzene	μg/L						10	
Fluoranthene	μg/L						0.25	
Hexachlorocyclopentadiene	μg/L						25	
Nitrobenzene	μg/L						5.0	
Thallium	μg/L						5.0	
Toluene	μg/L						10	
Tributyltin	ng/L						25	
1,1,1-Trichloroethane	μg/L						10	
Acrylonitrile	µg/L						10	
Aldrin	μg/L						0.025	
Benzene	µg/L						10	
Benzidine	μg/L						25	
Beryllium	μg/L						2.5	
Bis (2-chloroethyl) ether	μg/L						5.0	
Bis (2-ethylhexyl) phthalate	μg/L						25	
Carbon tetrachloride	μg/L						10	
Chlordane	μg/L						0.50	i
Chlorodibromomethane	μg/L						10	
Chloroform	μg/L						10	
DDT	μg/L	0.0101						a, j
DDT	g/yr					5,850		j, k
1,4-dichlorobenzene	µg/L						5.0	
3,3'-dichlorobenzidine	µg/L						25	
1,2-dichloroethane	μg/L						10	
1,1-dichloroethylene	μg/L						10	
Dichlorobromomethane	µg/L						10	
Dichloromethane	µg/L						2.4	
1,3-Dichloropropene	µg/L						10	
Dieldrin	μg/L						0.050	
2,4-dinitrotoluene	μg/L						25	
1,2-diphenylhydrazine	μg/L						5.0	
Halomethanes	μg/L						10	

TENTATIVE ORDER: 8/30/2022 11

Parameter	Units	Average Monthly Effluent Limit	Average Weekly Effluent Limit	Maximum Daily Effluent Limit	Instantaneous Maximum Effluent Limit	Annual Average Effluent Limit	Average Monthly Performance Goal	Notes
Heptachlor	μg/L						0.050	
Heptachlor epoxide	μg/L						0.050	
Hexachlorobenzene	μg/L						5.0	
Hexachlorobutadiene	μg/L		-				5.0	
Hexachloroethane	μg/L						5.0	
Isophorone	μg/L						5.0	
N-nitrosodimethylamine	μg/L						25	
N-nitrosodi-N-propylamine	μg/L						25	
N-nitrosodiphenylamine	μg/L						5.0	
Polycyclic Aromatic Hydrocarbons (PAHs)	μg/L						0.064	j
Polychlorinated Biphenyls (PCBs) as Aroclors	μg/L	0.000271						a, j
PCBs as Aroclors	g/yr					157		j, k
TCDD equivalents	pg/L	0.33	-					a, e, j
TCDD equivalents	lbs/day	1.2E-06						a, b, e, j
1,1,2,2-tetrachloroethane	μg/L						5.0	
Tetrachloroethylene	μg/L		-				10	
Toxaphene	μg/L						2.5	
Trichloroethylene	μg/L						10	
1,1,2-trichloroethane	μg/L						10	
2,4,6-trichlorophenol	μg/L						50	
Vinyl chloride	μg/L						10	

Footnotes for Table 5:

- a. For intermittent discharges, the daily value used to calculate the average monthly or median 6-month values shall be considered to equal zero for days on which no discharge occurred.
- b. The mass emission rates are calculated using a 420 MGD influent flow rate, consistent with the water quality-based limits in the previous permit: lbs/day = 0.00834 x Ce (effluent concentration in μg/L) x Q (flow rate in MGD). During wet weather events (producing greater than 0.1 inches of precipitation) where the influent flow exceeds 420 MGD, the mass-based effluent limitations shall not apply, but all concentration-based limitations continue to apply during wet weather events where the influent flow exceeds 420 mgd.
- c. The instantaneous maximum effluent limitations shall apply to grab samples.
- d. Values are expressed as total recoverable concentrations.
- e. The minimum dilution ratios used to determine compliance with effluent limitations for nonconventional and toxic pollutants for Discharge Point 002 are 84:1 for all pollutants except ammonia and chronic toxicity, and 96:1 for ammonia and chronic toxicity (i.e., 84 and 96 parts seawater to one part effluent, respectively).
- f. The maximum daily effluent limitations shall apply to flow weighted 24-hour composite samples.
- g. The AMEL for this pollutant is expressed as a 6-month median effluent limitation.
- h. The Chronic Toxicity final effluent limitation is protective of both the numeric acute and chronic toxicity 2019 Ocean Plan water quality objectives. The final effluent limitation will be implemented using Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136, 1995), current USEPA guidance in the National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, June 2010) (http://www3.epa.gov/npdes/pubs/wet_final_tst_implementation2010.pdf) and EPA Regions 8, 9, and 10, Toxicity Training Tool (January 2010).

TENTATIVE ORDER: 8/30/2022

- i. The Maximum Daily Effluent Limitation (MDEL) shall be reported as "Pass" or "Fail". See section 5.5.1. of the MRP.
- j. See section 8 of this Order/Permit and Attachment A for definition of terms.
- k. Consistent with the Santa Monica Bay TMDL for DDTs and PCBs, the calculation of the annual mass emissions shall be calculated using the arithmetic average of available monthly mass emissions as follows:

Annual Mass Emission,
$$\frac{g}{year}$$

$$= \left(\frac{\sum Monthly\ Mass\ Emission,\ g/month}{Number\ of\ Monthly\ Mass\ Emissions\ Calculated}\right)*12\ months/year$$

Monthly Mass Emission,
$$\frac{kg}{month} = \left(\frac{3,785}{N}\right) * \left(\sum_{i=1}^{N} Q_i C_i\right) * 30.5 = \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_i C_i\right)$$

C_i = DDT or PCB concentration of each individual sample (ng/L)

$$\mathbf{Q_i} = (\frac{\sum_{d=1}^{D} Q_d}{30.5})$$

N = number of samples collected during the month

The total mass load for DDT and PCBs from the Joint Water Pollution Control Plant, Hyperion Water Reclamation Plant, and West Basin's Water Reclamation Plant shall not be more than 14,567 g/yr for DDT and 351 g/yr for PCBs. The Permittee is deemed in compliance with these group water-quality-based effluent limitations for DDT and PCBs if it is in compliance with the individual mass-based Annual Average Effluent Limitations for DDT and PCBs.

End of Footnotes for Table 5

TENTATIVE ORDER: 8/30/2022

4.1.2. Final Effluent Limitations – Discharge Point 001

The Permittee shall maintain compliance with the following effluent limitations at Discharge Point 001, with compliance measured at Monitoring Location EFF-001, as described in the attached MRP.

Table 6. Final Effluent Limitations for Discharge Point 001

Parameter	Units	Average Monthly Effluent Limit	Average Weekly Effluent Limit	Maximum Daily Effluent Limit	Instantaneous Effluent Limit	Annual Average Effluent Limit	Notes
BOD₅20°C	mg/L	30	45				а
BOD₅20°C	lbs/day	105,000	160,000				a, b
TSS	mg/L	30	45		-		а
TSS	lbs/day	105,000	160,000				a, b
O&G	mg/L	25	40		75		a, c
O&G	lbs/day	88,000	140,000		281,000		a, b, c
Settleable Solids	mL/L	1.0	1.5		3.0		a, c
Turbidity	NTU	75	100		225		a, c
Copper	μg/L	16		140	160		a, c, d, e, f, g
Copper	lbs/day	56		490	560		a, b, c, d, e, f, g
Chlorine, Total Residual	μg/L	28		112	840		a, c, e, f
Chlorine, Total Residual	lbs/day	98		390	2,900		a, b, c, e, f
Ammonia (as N)	mg/L	8.4		34	84		a, c, e, f, g
Ammonia (as N)	lbs/day	29,000		120,000	290,000		a, b, c, e, f, g

Parameter	Units	Average Monthly Effluent Limit	Average Weekly Effluent Limit	Maximum Daily Effluent Limit	Instantaneous Effluent Limit	Annual Average Effluent Limit	Notes
Chronic Toxicity	Pass or Fail (TST)			Pass			e, f, h, i
DDT	μg/L	0.0101					a, j
DDT	g/yr	ŀ		-		5,850	j, k
PCBs Aroclors	μg/L	0.000271		1			a, j
PCBs Aroclors	g/yr	-		-		157	j, k
TCDD equivalents	pg/L	0.055		-			a, e, j, g
TCDD equivalents	lbs/day	1.9E-07		-			a, b, e, j, g

Footnotes for Table 6:

- a. For intermittent discharges, the daily value used to calculate the average monthly values shall be considered to equal zero for days on which no discharge occurred.
- b. The mass emission rates are calculated using 420 MGD, consistent with the water quality-based limits in the previous permit: lbs/day = 0.00834 x Ce (effluent concentration in $\mu\text{g/L}$) x Q (flow rate in MGD). During wet weather events (producing greater than 0.1 inches of precipitation) where the influent flow exceeds 420 MGD, the mass-based effluent limitations shall not apply, however all concentration-based limitations continue to apply during wet weather events where the influent flow exceeds 420 mgd.
- c. The instantaneous maximum effluent limitations shall apply to grab samples.
- d. Concentrations are expressed as total recoverable concentrations.
- e. The minimum dilution ratio used to determine compliance with effluent limitations for nonconventional and toxic pollutants for Discharge Point 001 is 13:1 (i.e., 13 parts seawater to one-part effluent).
- f. The maximum daily effluent limitations shall apply to flow weighted 24-hour composite samples
- g. The AMEL for this pollutant is expressed as a 6-month median effluent limitation.

- h. The Chronic Toxicity final effluent limitation is protective of both the numeric acute and chronic toxicity 2019 Ocean Plan water quality objectives. The final effluent limitation will be implemented using Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136, 1995), current USEPA guidance in the National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, June 2010).

 (http://www3.epa.gov/npdes/pubs/wet_final_tst_implementation2010.pdf) and EPA Regions 8, 9, and 10, Toxicity Training Tool (January 2010).
- i. The Maximum Daily Effluent Limitation (MDEL) shall be reported as "Pass" or "Fail"." See section 5.5.1. of the MRP.
- j. See section 8 of this Order/Permit and Attachment A for definition of terms
- k. Consistent with the Santa Monica Bay TMDL for DDTs and PCBs, the calculation of the annual mass emissions shall be calculated using the arithmetic average of available monthly mass emissions as follows:

$$Annual \ Mass \ Emission, \frac{g}{year} \\ = \left(\frac{\sum Monthly \ Mass \ Emission, g/month}{Number \ of \ Monthly \ Mass \ Emissions \ Calculated}\right) * 12 \ months/year$$

$$Monthly\ Mass\ Emission, \frac{kg}{month} = \left(\frac{3{,}785}{N}\right) * \left(\sum_{i=1}^{N}Q_{i}C_{i}\right) * 30.5 = \frac{0.1154425}{N} * \left(\sum_{i=1}^{N}Q_{i}C_{i}\right)$$

C_i = DDT or PCB concentration of each individual sample (ng/L)

$$Q_{i} = (\frac{\sum_{d=1}^{D} Q_{d}}{30.5})$$

N = number of samples collected during the month

The total mass load for DDT and PCBs from the Joint Water Pollution Control Plant, Hyperion Water Reclamation Plant, and West Basin's Water Reclamation Plant shall not be more than 14,567 g/yr for DDT and 351 g/yr for PCBs. The Permittee is deemed in compliance with these group water-quality-based effluent limitations for DDT and PCBs if it is in compliance with the individual mass-based Annual Average Effluent Limitations for DDT and PCBs.

End of Footnotes for Table 6

4.1.3. Other Final Effluent Limitations – Discharge Point 001 and 002

- **a. Percent Removal:** The average monthly percent removal of $BOD_520^{\circ}C$ and TSS shall not be less than 85 percent.
- **b. Temperature**: The temperature of wastes discharged shall not exceed 100°F.
- **c. pH**: The effluent values for pH shall be maintained within the limits of 6.0 standard units and 9.0 standard units at all times.
- **d. Radioactivity**: Not to exceed limits specified in Title 17, Division 1, Chapter 5, Subchapter 4, Group 3, Article 3, Section 30253 of the California Code of Regulations. Reference to section 30253 is prospective, including future changes to any incorporated provisions of federal law, as the changes take effect.
- **e.** The Permittee shall ensure that bacterial concentrations in the effluent discharged from Discharge Points 001 and 002 do not cause or contribute to exceedances at shoreline monitoring points of bacteriological objectives contained in Chapter 3 of the *Water Quality Control Plan Los Angeles Region* (Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties; hereinafter, Basin Plan) during summer dry weather, winter dry weather and wet weather, as specified in section 7-4 of the Basin Plan.
- f. Waste discharged to the ocean must be essentially free of:
 - i. Material that is floatable or will become floatable upon discharge.
 - ii. Settleable material or substances that may form sediments which will degrade benthic communities or other aquatic life.
 - iii. Substances that will accumulate to toxic levels in marine waters, sediments or biota.
 - iv. Substances that significantly decrease the natural light to benthic communities and other marine life.
 - v. Materials that result in aesthetically undesirable discoloration of the ocean surface.

4.1.4. Interim Effluent Limitations –Not Applicable

4.2. Land Discharge Specifications -Not Applicable

4.3. Recycling Specifications

The Permittee shall investigate the feasibility of recycling, conservation, and/or alternative disposal methods for wastewater (such as groundwater injection), and/or capture and treatment of dry-weather urban runoff and stormwater on a permissive basis for beneficial reuse. The Permittee shall submit an update to this feasibility study as part of the submittal of the Report of Waste Discharge (ROWD) for the next permit renewal.

5. MASS EMISSION BENCHMARKS

The following mass emission benchmarks, in metric tons per year (MT/yr), have been established for the discharge through the 5-Mile Outfall (Discharge Point 002). The Permittee shall monitor and report the mass emission rate for all constituents that have mass emission benchmarks. These mass emission benchmarks are not enforceable water quality-based effluent limitations. The mass emission benchmarks (in MT/yr) for the Hyperion WRP discharge were determined using April 2017 through September 2021 effluent concentrations and the Permittee's 1994 dry weather influent design capacity of 420 MGD.

Table 7. 12-Month Average Effluent Mass Emission Benchmarks

Ocean Plan Constituent	12-month Average Mass Emission Benchmark (MT/yr)	Note	
Arsenic	2.7	а	
Cadmium	0.13	а	
Chromium (VI)	2.9	а	
Copper	23	а	
Lead	0.50	а	
Mercury	0.0030	а	
Nickel	10	а	
Selenium	1.7	а	
Silver	0.31	а	
Zinc	25	а	
Cyanide, Total	15		
Ammonia (as N)	30000		
Phenols, Non-chlorinated	2.9	b	
Phenols, Chlorinated	2.9	b	
Endosulfans	0.029	b	
Endrin	0.029		
HCH	0.015	b	
Acrolein	15		
Antimony	2.2		
Bis (2-chloroethoxy) methane	15		
Bis (2-chloroisopropyl) ether	5.8		
Chlorobenzene	5.8		
Chromium (III)	1.1		
Di-n-butyl phthalate	29		
Dichlorobenzenes	2.9	b	
Diethyl phthalate	5.8		
Dimethyl phthalate	5.8		
4,6-dinitro-2-methylphenol	15		
2,4-dinitrophenol	15		
Ethylbenzene	5.8		

TENTATIVE ORDER: 8/30/2022

Ocean Plan Constituent	12-month Average Mass Emission Benchmark (MT/yr)	Note
Fluoranthene	0.15	
Hexachlorocyclopentadiene	15	
Nitrobenzene	2.9	
Thallium	2.9	
Toluene	5.8	
Tributyltin	0.015	
1,1,1-Trichloroethane	5.8	
Acrylonitrile	5.8	
Aldrin	0.015	
Benzene	5.8	
Benzidine	15	
Beryllium	1.5	
Bis (2-chloroethyl) ether	2.9	
Bis (2-ethylhexyl) phthalate	15	
Carbon tetrachloride	5.8	
Chlordane	0.29	b
Chlorodibromomethane	5.8	
Chloroform	5.8	
1,4-dichlorobenzene	2.9	
3,3'-dichlorobenzidine	15	
1,2-dichloroethane	5.8	
1,1-dichloroethylene	5.8	
Dichlorobromomethane	5.8	
Dichloromethane	1.4	
1,3-Dichloropropene	5.8	
Dieldrin	0.029	
2,4-dinitrotoluene	15	
1,2-diphenylhydrazine	2.9	
Halomethanes	5.8	b
Heptachlor	0.029	
Heptachlor epoxide	0.029	
Hexachlorobenzene	2.9	
Hexachlorobutadiene	2.9	
Hexachloroethane	2.9	
Isophorone	2.9	
N-nitrosodimethylamine	15	
N-nitrosodi-N-propylamine	15	
N-nitrosodiphenylamine	2.9	
PAHs	0.037	b
1,1,2,2-tetrachloroethane	2.9	
Tetrachloroethylene	5.8	

Ocean Plan Constituent	12-month Average Mass Emission Benchmark (MT/yr)	Note
Toxaphene	1.5	
Trichloroethylene	5.8	
1,1,2-trichloroethane	5.8	
2,4,6-trichlorophenol	29	
Vinyl chloride	5.8	

Footnotes for Table 7:

- a. Values reflect the mass of total recoverable metals.
- b. See Attachment A for definition of terms.

End of Footnotes for Table 7

6. RECEIVING WATER LIMITATIONS

The Permittee shall not cause a violation of the following water quality objectives. Compliance with these water quality objectives shall be determined by samples collected at stations outside the zone of initial dilution as specified in the MRP. Offshore station 3505B is the only station within the zone of initial dilution.

6.1. Surface Water Limitations

6.1.1. Bacterial Characteristics

a. USEPA Primary Recreation Criteria in Federal Waters

Ocean waters beyond the outer limit of the territorial sea shall not exceed the following 304(a)(1) criteria for *Enterococcus* density beyond the zone of initial dilution in areas where primary contact recreation, as defined in USEPA guidance, occurs. USEPA describes the "primary contact recreation" use as protective when the potential for ingestion of, or immersion in, water is likely. Activities usually include swimming, water-skiing, skin-diving, surfing, and other activities likely to result in immersion. (Water Quality Standards Handbook, EPA-823-B-12-002, 2012, p. 2.)

30-day Geometric Mean (per 100 mL): 30

Statistical Threshold Value (per 100 mL): 110.

b. State/Regional Water Contact Standards

Within a zone bounded by the shoreline and a distance of 1,000 feet from the shoreline or the 30-foot depth contour, whichever is further from the shoreline, and in areas outside this zone used for water contact sports, as determined by the Los Angeles Water Board or USEPA (i.e., waters designated as REC-1), but including all kelp beds, the following bacterial objectives shall be maintained throughout the water column.

i. <u>Fecal coliform</u>: A 30-day geometric mean (GM) of fecal coliform density not to exceed 200 per 100 milliliters (mL), calculated based on

the five most recent samples from each site, and a single sample maximum (SSM) not to exceed 400 per 100 mL.

- ii. *Enterococci*: A six-week rolling GM of *Enterococci* not to exceed 30 colony forming units (cfu) per 100 mL, calculated weekly, and a statistical threshold value (STV) of 110 cfu/100 mL not to be exceeded by more than 10 percent of the samples collected in a calendar month, calculated in a static manner. USEPA recommends using USEPA Method 1600 or other equivalent method to measure culturable *Enterococci*.
- c. The Initial Dilution Zone for any wastewater outfall shall be excluded from designation as kelp beds for purposes of bacterial standards. Adventitious assemblages of kelp plants on waste discharge structures (e.g., outfall pipes and diffusers) do not constitute kelp beds for purposes of bacterial standards.
- d. Shellfish Harvesting Standards

At all areas where shellfish may be harvested for human consumption, as determined by the Los Angeles Water Board and USEPA, the following bacterial objectives shall be maintained throughout the water column: The median total coliform density shall not exceed 70 per 100 mL, and not more than 10 percent of the samples shall exceed 230 per 100 mL.

6.1.2. Physical Characteristics

The waste discharged shall not:

- a. result in floating particulates and oil and grease to be visible;
- b. cause aesthetically undesirable discoloration on the ocean surface;
- c. significantly reduce the transmittance of natural light at any point outside the initial dilution zone:
- d. change the rate of deposition of inert solids and the characteristics of inert solids in ocean sediments such that benthic communities are degraded, and
- e. contain trash to be present in ocean waters, along shorelines or adjacent areas in amounts that adversely affect beneficial uses or cause nuisance.

6.1.3. Chemical Characteristics

The waste discharged shall not:

 a. cause the dissolved oxygen concentration at any time to be depressed more than 10 percent from that which occurs naturally, as a result of the discharge of oxygen demanding waste;

- b. change the pH of the receiving waters at any time more than 0.2 units from that which occurs naturally;
- c. cause the dissolved sulfide concentration of waters in and near sediments to be significantly increased above that present under natural conditions;
- d. cause concentration of substances (as set forth in Chapter II, Table 3 of the 2019 Ocean Plan) in marine sediments to be increased to levels that would degrade indigenous biota;
- e. cause the concentration of organic materials in marine sediments to be increased to levels that would degrade marine life;
- f. contain nutrients at levels that will cause objectionable aquatic growths or degrade indigenous biota;
- g. cause total chlorine residual to persist in the receiving water at any concentration that causes impairment of beneficial uses;
- h. produce concentrations of substances in the receiving water that are toxic to or cause detrimental physiological responses in human, animal, or aquatic life; and
- i. contain individual pesticides or combinations of pesticides in concentrations that adversely affect beneficial uses.

6.1.4. Biological Characteristics

The waste discharged shall not:

- a. degrade marine communities, including vertebrate, invertebrate, and plant species;
- b. alter the natural taste, odor, and color of fish, shellfish, or other marine resources used for human consumption;
- c. cause the concentration of organic materials in fish, shellfish or other marine resources used for human consumption to bioaccumulate to levels that are harmful to human health; and
- d. contain substances that result in biochemical oxygen demand that adversely affects the beneficial uses of the receiving water.

6.1.5. Radioactivity

Discharge of radioactive waste shall not degrade marine life.

6.2. Groundwater Limitations – Not Applicable

7. PROVISIONS

7.1. Standard Provisions

7.1.1. The Permittee shall comply with all Standard Provisions included in Attachment D of this Order/Permit.

- 7.1.2. **Los Angeles Water Board Standard Provisions.** The Permittee shall comply with the following provisions. In the event that there is any conflict, duplication, or overlap between provisions specified by this Order/Permit, the more stringent provision shall apply:
 - a. Neither the treatment nor the discharge of pollutants shall create a pollution, contamination, or nuisance as defined by section 13050 of the CWC.
 - b. Odors, vectors, and other nuisances of sewage or sludge origin beyond the limits of the treatment plant site or the sewage collection system due to improper operation of facilities and/or spills, bypass, or overflow of sewage or sludge, as determined by the Los Angeles Water Board and USEPA Region 9, are prohibited.
 - c. All facilities used for collection, transport, treatment, or disposal of wastes shall be adequately protected against damage resulting from overflow, washout, or inundation from a storm or flood having a recurrence interval of once in 100 years.
 - d. Collection, treatment, and disposal systems shall be operated in a manner that precludes public contact with wastewater.
 - e. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of in a manner approved by the Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director.
 - f. The provisions of this Order/Permit are severable. If any provision of this Order/Permit or the application of any provision of this Order/Permit is found invalid, the remainder of this Order/Permit shall not be affected.
 - g. Nothing in this Order/Permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation under authority preserved by section 510 of the CWA.
 - h. Nothing in this Order/Permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities or penalties to which the Permittee is or may be subject to under section 311 of the CWA, related to oil and hazardous substances liability.
 - i. Discharge of wastes to any point other than specifically described in this Order/Permit is prohibited.
 - j. The Permittee shall comply with all applicable effluent limitations, national standards of performance, toxic effluent standards, and all federal regulations established pursuant to sections 301, 302, 303(d),

 $304,\,306,\,307,\,316,\,403,\,$ and 405 of the federal CWA and amendments thereto.

- k. These requirements do not exempt the operator of the waste disposal facility from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this waste disposal facility; and they leave unaffected any further restraints on the disposal of wastes at this site which may be contained in other statutes or required by other agencies.
- I. Oil or oily material, chemicals, refuse, or other polluting materials shall not be stored or deposited in areas where they may be picked up by rainfall and carried off the property and/or discharged to surface waters. Any such spill of such materials shall be contained and removed immediately.
- m. A copy of these waste discharge specifications shall be maintained at the discharge Facility and be available at all times to operating personnel.
- n. If there is any storage of hazardous or toxic materials or hydrocarbons at this Facility and if the Facility is not manned at all times, a 24-hour emergency response telephone number shall be prominently posted where it can easily be read from the outside.
- o. The Permittee shall file with the Los Angeles Water Board and USEPA Region 9 a Report of Waste Discharge at least 120 days before making any proposed change in the character, location, or volume of the discharge.
- p. The Permittee shall comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies regarding discharges of stormwater to storm drain systems or other water courses under their jurisdiction; including applicable requirements in municipal storm water management programs developed to comply with the NPDES permit(s) issued by the Los Angeles Water Board and/or USEPA Region 9 to local agencies.
- q. In the event of any change in name, ownership, or control of these waste disposal facilities, the Permittee shall notify the Los Angeles Water Board and USEPA of such change and shall notify the succeeding owner or operator of the existence of this Order/Permit by letter, a copy of which shall be forwarded to the Los Angeles Water Board and USEPA Region 9, 30 days prior to taking effect.
- r. The CWC provides that any person who violates a waste discharge requirement or a provision of the CWC is subject to civil penalties of up to \$5,000 per day, \$10,000 per day, or \$25,000 per day of violation, or when the violation involves the discharge of pollutants, is subject to civil penalties of up to \$10 per gallon per day or \$25 per gallon per day of

violation, or some combination thereof, depending on the violation, or upon the combination of violations. Violation of any of the provisions of the applicable statutes and regulations or of any provisions of this Order/Permit may subject the violator to any of the penalties described herein, or any combinations thereof, at the discretion of the prosecuting authority; except that only one kind of penalty may be applied for each kind of violation.

- s. CWC section 13387 provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Order/Permit, including monitoring reports or reports of compliance or noncompliance, or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained in this Order/Permit is subject to a fine of not more than \$25,000 or imprisonment of not more than two years, or both. For a second conviction, such a person shall be punished by a fine of not more than \$25,000 per day of violation, or by imprisonment of not more than four years, or by both.
- t. The discharge of any waste resulting from the combustion of toxic or hazardous wastes to any waste stream that ultimately discharges to waters of the United States is prohibited, unless specifically authorized elsewhere in this Order/Permit.
- u. The Permittee shall notify the Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director in writing no later than 6 months prior to planned discharge of any chemical, other than the products previously reported to the Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director, which may be toxic to aquatic life. Such notification shall include:
 - i. Name and general composition of the chemical,
 - ii. Frequency of use,
 - iii. Quantities to be used,
 - iv. Proposed discharge concentrations, and
 - v. USEPA registration number, if applicable.
- v. Failure to comply with provisions or requirements of this Order/Permit, or violation of other applicable laws or regulations governing discharges from this facility, may subject the Permittee to administrative or civil liabilities, criminal penalties, and/or other enforcement remedies to ensure compliance. Additionally, certain violations may subject the Permittee to civil or criminal enforcement from appropriate local, state, or federal law enforcement entities.

- w. In the event the Permittee does not comply or will be unable to comply for any reason, with any prohibition, effluent limitation, or receiving water limitation of this Order/Permit that may endanger health or the environment, the Permittee shall notify the Manager of the Watershed Regulatory Section at the Los Angeles Water Board by telephone (213) 576-6616, or by fax at (213) 576-6660 within 24 hours of having knowledge of such noncompliance, and shall confirm this notification in writing to the Los Angeles Water Board within five days, unless the Los Angeles Water Board waives confirmation. The written notification shall state the nature, time, duration, and cause of noncompliance, and shall describe the measures being taken to remedy the current noncompliance and, prevent recurrence including, where applicable, a schedule of implementation. The written notification shall also be submitted via email with reference to CI-1492 to losangeles@waterboards.ca.gov. Other noncompliance requires written notification as above at the time of the normal monitoring report.
- x. CWC section 13385(h)(i) requires the Los Angeles Water Board to assess a mandatory minimum penalty of three-thousand dollars (\$3,000) for each serious violation. Pursuant to CWC section 13385(h)(2), a "serious violation" is defined as any waste discharge that violates the effluent limitations contained in the applicable WDRs for a Group II pollutant by 20 percent or more, or for a Group I pollutant by 40 percent or more. Appendix A of 40 CFR § 123.45 specifies the Group I and II pollutants. Pursuant to CWC section 13385.1(a)(1), a "serious violation" is also defined as "a failure to file a discharge monitoring report required pursuant to section 13383 for each complete period of 30 days following the deadline for submitting the report, if the report is designed to ensure compliance with limitations contained in waste discharge requirements that contain effluent limitations."
- y. CWC section 13385(i) requires the Los Angeles Water Board to assess a mandatory minimum penalty of three-thousand dollars (\$3,000) for each violation whenever a person violates a waste discharge requirement effluent limitation four or more times in any period of six consecutive months, except that the requirement to assess the mandatory minimum penalty shall not be applicable to the first three violations within that time period.
- z. Pursuant to CWC section 13385.1(d), for the purposes of section 13385.1 and subdivisions (h), (i), and (j) of section 13385, "effluent limitation" means a numeric restriction or a numerically expressed narrative restriction, on the quantity, discharge rate, concentration, or toxicity units of a pollutant or pollutants that may be discharged from an authorized location. An effluent limitation may be final or interim and may be expressed as a prohibition. An effluent limitation, for these

- purposes, does not include a receiving water limitation, a compliance schedule, or a best management practice.
- aa. Violation of any of the provisions of this Order/Permit may subject the Permittee to any of the penalties described herein or in Attachment D of this Order/Permit, or any combination thereof, at the discretion of the prosecuting authority; except that only one kind of penalty may be applied for each kind of violation.
- 7.1.3. The Permittee shall comply with the following USEPA Region 9 Standard Conditions:
 - a. The following condition has been established to enforce applicable requirements of the Resource Conservation and Recovery Act. POTWs may not receive hazardous waste by truck, rail, or dedicated pipe except as provided under 40 CFR § 270.
 - Hazardous wastes are defined at 40 CFR § 261 and include any mixture containing any waste listed under 40 CFR § 261.31 through § 261.33. The Domestic Sewage Exclusion (40 CFR § 261.4) applies only to wastes mixed with domestic sewage in a sewer leading to a POTW and not to mixtures of hazardous wastes and sewage or septage delivered to the treatment plant by truck.
 - b. **Transfers by Modification**: Except as provided in 40 CFR § 122.61(b), this Permit may be transferred by the Permittee to a new owner or operator only if the Permit has been modified or revoked and reissued (under 40 CFR § 122.62(b)(2)), or a minor modification made (under 40 CFR § 122.63(d)), to identify the new permittee and incorporate such other requirements as may be necessary under the CWA. (40 CFR § 122.61(a).)
 - c. **Automatic Transfers**: As an alternative to transfers under 40 CFR § 122.61(a), this Permit may be automatically transferred to a new permittee if: the current permittee notifies the Water Division Director at least 30 days in advance of the proposed transfer date; the notice includes a written agreement between the Discharger and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them; and the Water Division Director does not notify the Discharger and the proposed new permittee of his/her intent to modify or revoke and reissue the Permit. A modification under this paragraph may also be a minor modification under 40 CFR § 122.63. If this notice is not received, the transfer is effective on the date specified in the written agreement between the Discharger and the new permittee. (40 CFR § 122.61(b).)
 - d. Minor Modification of Permits: Upon the consent of the Permittee, the Water Division Director may modify the Permit to make the corrections or allowances for changes in the permitted activity listed under 40 CFR § 122.63(a) through (g), without following the procedures of 40 CFR §

- 124. Any permit modification not processed as a minor modification under 40 CFR § 122.63 must be made for cause and with 40 CFR § 124 draft permit and public notice as required in 40 CFR § 122.62. (40 CFR § 122.63.)
- e. **Termination of Permits**: The causes for terminating a permit during its term, or for denying a permit renewal application are found at 40 CFR § 122.64(a)(1) through (4). (40 CFR § 122.64.)
- f. Availability of Reports: Except for data determined to be confidential under 40 CFR § 2, all reports prepared in accordance with the terms of this Order/Permit shall be available for public inspection at the offices of the Los Angeles Water Board and USEPA. As required by the CWA, permit applications, permits, and effluent data shall not be considered confidential. (Pursuant to CWA section 308.)
- g. Removed Substances: Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters. (Pursuant to CWA section 301.)
- h. Severability: The provisions of this Order/Permit are severable, and if any provision of this Order/Permit or the application of any provision of this Order/Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this Order/Permit shall not be affected thereby. (Pursuant to CWA section 512.)
- Civil and Criminal Liability: Except as provided in standard conditions on Bypass and Upset, nothing in this Order/Permit shall be construed to relieve the Permittee from civil or criminal penalties for noncompliance. (Pursuant to CWA section 309.)
- j. **Oil and Hazardous Substances Liability**: Nothing in this Order/Permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject under CWA section 311.
- k. State or Tribal Law: Nothing in this Order/Permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties established pursuant to any applicable State or Tribal law or regulation under authority preserved by CWA section 510.

7.2. Monitoring and Reporting Program (MRP) Requirements

The Permittee shall comply with the MRP and future revisions thereto, in Attachment E of this Order/Permit.

7.3. Special Provisions

7.3.1. Reopener Provisions

- a. This Order/Permit may be reopened and modified to incorporate new limits based on future reasonable potential analyses to be conducted based on on-going monitoring data collected by the Permittee and evaluated by the Los Angeles Water Board and USEPA Region 9.
- b. This Order/Permit may be reopened and modified to incorporate new mass emission rates based on the current Hyperion WRP's design capacity of 450 MGD provided that the Permittee requests and conducts an antidegradation analysis to demonstrate that the change is consistent with the state and federal antidegradation policies.
- c. This Order/Permit may be reopened and modified, in accordance with the provisions set forth in 40 CFR § 122 and 124, to incorporate requirements for the implementation of the watershed protection management approach.
- d. This Order/Permit may be modified, in accordance with the provisions set forth in 40 CFR § 122 to 124, to include new minimum levels (MLs).
- e. This Order/Permit may be reopened and modified to revise effluent limitations as a result of future Basin Plan amendments or the adoption or revision of a Total Maximum Daily Load (TMDL) for the Santa Monica Bay Watershed Management Area.
- f. The Los Angeles Water Board or USEPA Region 9 may modify or revoke and reissue this Order/Permit if present or future investigations demonstrate that the discharge(s) governed by this Order/Permit will cause, have the potential to cause, or will contribute to adverse impacts on water quality and/or beneficial uses of the receiving waters.
- g. This Order/Permit may be reopened and modified to revise any of the performance goals or mass emission benchmarks if the Permittee submits a request and demonstrates to the satisfaction of the Los Angeles Water Board and the USEPA Region 9 Water Division Director that the change is warranted.
- h. This Order/Permit may be modified, revoked, and reissued or terminated in accordance with the provisions of 40 CFR § 122.44, 122.62 to 122.64, 125.62, and 125.64. Causes for taking such actions include, but are not limited to, failure to comply with any condition of this Order/Permit, endangerment to human health or the environment resulting from the permitted activity, or acquisition of newly obtained information which would have justified the application of different conditions if known at the time of Order/Permit adoption and issuance. The filing of a request by the Discharger for an Order/Permit modification, revocation, and issuance or termination, or a notification of

- planned changes or anticipated noncompliance does not stay any condition of this Order/Permit.
- i. This Order/Permit may be modified, or revoked and reissued, based on the results of Magnuson-Stevens Fishery Conservation and Management Act and/or ESA section 7 consultation(s) with the NMFS and/or the USFWS.
- j. This Order/Permit may be reopened and modified to incorporate conforming monitoring requirements and schedule dates for implementation of the Comprehensive Monitoring Program for Santa Monica Bay (Commission with Santa Monica Bay National Estuary Program, April 2021).
- k. This Order/Permit may be modified, revoked and reissued, or terminated for cause, including, but not limited to:
 - i. Violation of any term or condition contained in this Order/Permit;
 - ii. Obtaining this Order/Permit by misrepresentation, or by failure to disclose fully all relevant facts; or
 - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- I. The filing of a request by the Permittee for an Order/Permit modification, revocation, and issuance or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order/Permit.
- m. If an applicable toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under section 307(a) of the CWA for a toxic pollutant and that standard or prohibition is more stringent than any limitation on the pollutant in this Order/Permit, the Los Angeles Water Board and USEPA Region 9 may institute proceedings under these regulations to modify or revoke and reissue the Order/Permit to conform to the toxic effluent standard or prohibition.
- n. If more stringent applicable water quality standards are promulgated or approved pursuant to section 303 of the CWA, or amendments, thereto, the Los Angeles Water Board and USEPA Region 9 will revise and modify this Order/Permit in accordance with such standards.
- o. This Order/Permit will be reopened and modified to the extent necessary, to be consistent with new or revised policies, a new or revised state-wide plan, new laws, or new regulations.

7.3.2. Special Studies, Technical Reports and Additional Monitoring Requirements

a. Toxicity Reduction Requirements

The Permittee shall prepare and submit a copy of the Permittee's initial investigation Toxicity Reduction Evaluation (TRE) work plan in accordance with MRP section 5.6.

b. Treatment Plant Capacity

The Permittee shall submit a written report to the Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director within 90 days after the "30-day (monthly) average" daily dryweather flow equals or exceeds 75 percent of the design capacity (0.75 x 450 MGD = 337 MGD) of waste treatment and/or disposal facilities. The Permittee's senior administrative officer shall sign a letter, which transmits that report and certifies that the discharger's policy-making body is adequately informed of the report's contents. The report shall include the following:

- The average daily flow for the calendar month, the date on which the peak flow occurred, the rate of that peak flow, and the total flow for the day;
- ii. The Permittee's best estimate of when the monthly average daily dryweather flow rate will equal or exceed the design capacity of the POTW; and
- iii. A schedule for studies, design, and other steps needed to provide additional capacity for waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units.

This requirement is applicable to those facilities that have not reached 75 percent of capacity as of the effective date of this Order/Permit. For those facilities that have reached 75 percent of capacity by that date but for which no such report has been previously submitted, such report shall be filed within 90 days of the issuance of this Order/Permit.

7.3.3. Best Management Practices and Pollution Prevention

a. Storm Water Pollution Prevention Plan (SWPPP)

The Hyperion WRP is regulated under the State Water Board Water Quality Order Number 2014-0057-DWQ amended by Order 2015-0122-DWQ and Order 2018-0028-DWQ, NPDES Number CAS000001, General Permit for Storm Water Discharges Associated with Industrial Activities.

b. Spill Clean-up Contingency Plan (SCCP)

Within 90 days of the effective date of this Order/Permit, the Permittee is required to submit an SCCP. The SCCP shall describe the activities and

protocols to address the clean-up of spills, overflows, and bypasses of untreated wastewater from the Permittee's collection system or treatment facilities. At a minimum, the plan shall include sections of spill clean-up and containment measures, public notifications, monitoring, and the procedures to be carried out if floatable material is visible on the water surface near the discharge point or has been washed ashore. The Permittee shall review and amend the plan as appropriate after each spill from the Facility or in the service area of the Facility. The Permittee shall include a discussion in the annual summary report of any modifications to the plan and the application of the plan to all spills during the year.

c. Pollutant Minimization Program (PMP)

Reporting protocols in the MRP describe sample results that are to be reported as Detected but Not Quantified (DNQ) or Not Detected (ND). Definitions for a reported ML and Method Detection Limit (MDL) are provided in the Ocean Plan. These reporting protocols and definitions are used in determining the need to conduct a PMP as follows:

The Permittee shall develop and conduct a PMP as further described below when there is evidence (e.g., sample results reported as DNQ and when the effluent limitation is less than the MDL; sample results from analytical methods more sensitive than those methods required by this Order/Permit; presence of whole effluent toxicity; health advisories for fish consumption; beach posting by the local health officer per California Code of Regulations, Title 17, section 7958 et seq.; or, results of benthic or aquatic organism tissue sampling) that a pollutant is present in the effluent above an effluent limitation and either of the following is true:

- i. The concentration of the pollutant is reported as DNQ and the effluent limitation is less than the reported ML; or,
- ii. The concentration of the pollutant is reported as ND and the effluent limitation is less than the MDL, using definitions described in Attachment A and reporting protocols described in the MRP.

The goal of the PMP shall be to reduce all potential sources of a pollutant through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the 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 Los Angeles Water Board and USEPA Region 9 may consider cost-effectiveness when establishing the requirements of a PMP. The completion and implementation of a Pollution Prevention Plan (PPP), if required pursuant to CWC section 13263.3(d), shall be considered to fulfill the PMP requirements.

The PMP shall include, but not be limited to, the following actions and submittals acceptable to the Los Angeles Water Board and USEPA Region 9:

- i. An annual review and semi-annual monitoring of potential sources of the reportable pollutant(s), which may include fish tissue monitoring and other bio-uptake sampling;
- ii. Quarterly monitoring for the reportable pollutant(s) in the influent to the wastewater treatment system;
- iii. Submittal of a control strategy designed to proceed toward the goal of maintaining concentrations of the reportable pollutant(s) in the effluent at or below the effluent limitation;
- iv. Implementation of appropriate cost-effective control measures for the reportable pollutant(s), consistent with the control strategy; and
- v. An annual status report that shall be sent to the Los Angeles Water Board and USEPA Region 9 including:
 - 1) All PMP monitoring results for the previous year;
 - 2) A list of potential sources of the reportable pollutant(s);
 - A summary of all actions undertaken pursuant to the control strategy; and a description of actions to be taken in the following year.

7.3.4. Construction, Operation and Maintenance Specifications

- a. Certified Wastewater Treatment Plant Operator: Wastewater treatment facilities subject to this Order/Permit shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to CCR, title 23, division 3, chapter 26 (CWC sections 13625 – 13633).
- b. Alternate Power Source: The Permittee shall maintain in good working order a sufficient alternate power source for operating the wastewater treatment and disposal facilities. All equipment shall be located to minimize failure due to moisture, liquid spray, flooding, and other physical phenomena. The alternate power source shall be designed to permit inspection and maintenance and shall provide for periodic testing. If such alternate power source is not in existence, the Permittee shall halt, reduce, or otherwise control all discharges upon the reduction, loss, or failure of the primary source of power. The Permittee shall provide standby or emergency power facilities and/or storage capacity or other means so that in the event of plant upset or outage due to power failure or other cause, discharge of raw or inadequately treated sewage does not occur.

- c. Routine Maintenance and Operational Testing for Emergency Infrastructure/Equipment: The Permittee shall perform monthly maintenance and operational testing for all emergency infrastructure and equipment at the facility, including but not limited to any bypass gate/weir in the headworks, alarm systems, backup pumps, standby power generators, and other critical emergency pump station components. The Permittee shall update the Operation and Maintenance Plan to include monthly maintenance and operational testing of emergency infrastructure and equipment, and shall keep the records of all operational testing for emergency systems, repairs, and modifications.
- d. Climate Change Effects Vulnerability Assessment and Mitigation Plan: The Permittee shall consider the impacts of climate change as they affect the operation of the treatment facility due to flooding, wildfires, or other climate-related changes. The Permittee shall develop a Climate Change Effects Vulnerability Assessment and Mitigation Plan (Climate Change Plan) to assess and manage climate change-related effects that may impact the wastewater treatment facility's operation, water supplies, its collection system, and water quality, including any projected changes to the influent water temperature and pollutant concentrations, and beneficial uses. For facilities that discharge to the ocean including desalination plants, the Climate Change Plan shall also include the impacts from sea level rise. The Climate Change Plan is due 12 months after effective date of this Order/Permit.
- e. The Discharger shall properly operate and maintain the Outfall structures to ensure they (or its replacement, in whole or part) are in good working order and are consistent with or can achieve better mixing than 13:1 at Discharge Point 001 and 84:1 at Discharge Point 002 (or 96:1 for ammonia and chronic toxicity).

7.3.5. Special Provisions for Publicly Owned Treatment Works (POTWs)

- a. Sludge Disposal Requirements Refer to Attachment H
 - i. All sludge generated at the wastewater treatment plant must be disposed of, treated, or applied to land in accordance with federal regulations contained in 40 CFR § 503. These requirements are enforceable by USEPA Region 9.
 - ii. The Permittee is separately required to comply with the requirements in State Water Board Water Quality Order Number 2004-0012-DWQ, General WDRs for the Discharge of Biosolids to Land for Use as a Soil Amendment in Agricultural, Silvicultural, Horticultural and Land Reclamation Activities (General Order), for those sites receiving the Permittee's biosolids which a Regional Water Board has placed under this general order, and with the requirements in individual WDRs

issued by a Regional Water Board for sites receiving the Permittee's biosolids.

- iii. The Permittee shall separately comply, if applicable, with WDRs issued by other Regional Water Boards to which jurisdiction the biosolids are transported and applied.
- iv. The Permittee shall ensure that haulers transporting sludge within the City's jurisdiction for treatment, storage, use, or disposal take all necessary measures to keep the sludge contained. The Permittee shall maintain and have haulers adhere to a spill clean-up plan. Any spills shall be reported to USEPA Region 9 and the Los Angeles Water Board or the state agency with jurisdiction over the location in which the spill occurred. All trucks hauling sludge shall be thoroughly washed after unloading at the field or at the receiving facility.

b. Pretreatment Requirements - Refer to Attachment I

- i. The Permittee has developed and implemented a Pretreatment Program that was previously submitted to the Los Angeles Water Board and USEPA Region 9. This Order/Permit requires implementation of the approved Pretreatment Program. Any violation of the Pretreatment Program will be considered a violation of this Order/Permit.
- ii. Any change to the program shall be reported to the Los Angeles Water Board and USEPA Region 9 in writing and shall only be implemented following the review and approval procedures established in 40 CFR § 403.18.
- iii. Applications for renewal or modification of this Order/Permit must contain information about industrial discharges to the POTW pursuant to 40 CFR § 122.21(j)(6). Pursuant to 40 CFR § 122.42(b) and section 7.1 of Attachment D, Standard Provisions, of this Order/Permit, the Permittee shall provide adequate notice of any new introduction of pollutants or substantial change in the volume or character of pollutants from industrial discharges which were not included in the permit application. Pursuant to 40 CFR § 122.44(j)(1), the Permittee shall annually identify and report, in terms of character and volume of pollutants, any Significant Industrial Users discharging to the POTW subject to Pretreatment Standards under section 307(b) of the CWA and 40 CFR § 403.
- iv. The Permittee shall evaluate whether its pretreatment local limits are adequate to meet the requirements of this Order/Permit (including mass emission benchmarks) and shall submit a written technical report as required under section 2 of Attachment I. The Permittee shall submit revised local limits to the Los Angeles Water Board and USEPA Regional IX for approval, as necessary. In addition, the

Permittee shall consider collection system overflow protection from such constituents as oil and grease, etc.

v. The Permittee shall comply with requirements contained in Attachment I – Pretreatment Reporting Requirements.

7.3.6. Collection System Requirements

The Permittee's collection system is part of the system that is subject to this Order/Permit. As such, the Permittee must properly operate and maintain its collection system (40 CFR §122.41(e)). The Permittee must report any non-compliance (40 CFR §122.41(I)(6) and (7)) and mitigate any discharge from the collection system in violation of this Order/Permit (40 CFR §122.41(d)). On November 22, 2006, the Permittee enrolled under the *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems*, State Water Board Order No. 2006-0003-DWQ, including monitoring and reporting requirements as amended by State Water Board Order WQ 2013-0058-EXEC.

7.3.7. Spill Reporting Requirements for POTWs

a. Initial Notification

Although State and Los Angeles Water Boards staff do not have duties as first responders, this requirement is an appropriate mechanism to ensure that the agencies that do have first responder duties are notified in a timely manner in order to protect public health and beneficial uses. For certain spills, overflows and bypasses, the Permittee shall make notifications as required below:

- i. In accordance with the requirements of Health and Safety Code section 5411.5, the Permittee shall provide notification to the local health officer or the director of environmental health with jurisdiction over the affected water body of any unauthorized release of sewage or other waste that causes, or probably will cause, a discharge to any waters of the state or odors, vectors, and other nuisances of sewage or sludge origin beyond the limits of the treatment plant site or the sewage collection system as soon as possible, but no later than two hours after becoming aware of the release.
- ii. In accordance with the requirements of CWC section 13271, the Permittee shall provide notification to the California Office of Emergency Services (Cal OES) of the release of reportable amounts of hazardous substances or sewage that causes, or probably will cause, a discharge to any waters of the state as soon as possible, but not later than two hours after becoming aware of the release. The CCR, Title 23, section 2250, defines a reportable amount of sewage as being 1,000 gallons. The phone number for reporting these releases to the Cal OES is (800) 852-7550. In addition, the Permittee shall notify other interested persons of any such sewage spill,

including but not limited to the South Coast Air Quality Management District (AQMD), City of El Segundo, and Heal the Bay, by maintaining an email list of those interested persons that have requested such notifications.

- iii. The Permittee shall notify the Los Angeles Water Board and USEPA of any unauthorized release of sewage from its POTW that causes, or probably will cause, a discharge to a water of the state or odors, vectors, and other nuisances of sewage or sludge origin beyond the limits of the treatment plant site or the sewage collection system as soon as possible, but not later than two hours after becoming aware of the release. This initial notification does not need to be made if the Permittee has notified Cal OES and the local health officer or the director of environmental health with jurisdiction over the affected water body. The phone number for reporting these releases of sewage to the Los Angeles Water Board is (213) 576-6657. The phone numbers for after hours and weekend reporting of releases of sewage to the Los Angeles Water Board are (213) 305-2284 and (213) 305-2253. The phone number for USEPA is (415) 947-4179.
- iv. At a minimum, the following information shall be provided to the Los Angeles Water Board and to USEPA:
 - 1) The location, date, and time of the release;
 - 2) The route of the spill including the water body that received or will receive the discharge;
 - 3) An estimate of the amount of sewage or other waste released and the amount that reached a surface water at the time of notification;
 - 4) If ongoing, the estimated flow rate of the release at the time of the notification; and,
 - 5) The name, organization, phone number and email address of the reporting representative.

b. Monitoring

For spills, overflows and bypasses reported under section 7.3.7.a, the Permittee shall monitor as required below:

To define the geographical extent of the spill's impact, the Permittee shall obtain grab samples from the receiving water for all spills, overflows or bypasses of any volume that reach any waters of the state (including surface and ground waters). If a grab sample cannot be obtained due to accessibility or safety concerns, the sample shall be obtained as soon as it becomes safe to do so. The Permittee shall analyze the samples for total coliform, fecal coliform, *E. coli* (if fecal coliform tests positive), *Enterococcus*, and relevant pollutants of concern, upstream and downstream of the point of entry of the spill (if

feasible, accessible, and safe). Daily monitoring shall be conducted from the time the spill is known until the results of two consecutive sets of bacteriological monitoring indicate the return to the background level or the County Department of Public Health authorizes cessation of monitoring.

c. Reporting

The initial notification required under section 7.3.7.a shall include the following:

- i. As soon as possible, but not later than twenty-four (24) hours after becoming aware of an unauthorized discharge of sewage or other waste from its wastewater treatment plant to a water of the state, or a spill, bypass or upset that results in odors, vectors, and other nuisances of sewage or sludge origin beyond the limits of the treatment plant site or the sewage collection system, the Permittee shall submit a statement to the Los Angeles Water Board by email at augustine.anijielo@waterboards.ca.gov, and to the USEPA Region 9 by telephone at (415) 947-4179 or facsimile at (415) 947-3545 and by email at R9NPDES@epa.gov. If the discharge is 1,000 gallons or more, this statement shall certify that Cal OES has been notified of the discharge in accordance with CWC section 13271. The statement shall also certify that the local health officer or director of environmental health with jurisdiction over the affected water bodies has been notified of the discharge in accordance with Health and Safety Code section 5411.5. The statement shall also include at a minimum the following information:
 - 1) Agency, NPDES Number, Order Number, and MRP CI Number, if applicable;
 - 2) Location, date, and time of the discharge;
 - 3) Waterbody that received the discharge;
 - 4) Description of the level of treatment of the sewage or other waste discharged;
 - 5) Initial estimate of the amount of sewage or other waste released and the amount that reached a surface water:
 - 6) Cal OES control number and the date and time that notification of the incident was provided to Cal OES; and,
 - 7) Name of the local health officer or director of environmental health representative notified (if contacted directly); the date and time of notification; and the method of notification (e.g., phone, fax, email).
- ii. A written preliminary report five (5) working days after disclosure of the incident is required. Submission to the Los Angeles Water Board and USEPA of the California Integrated Water Quality System

(CIWQS) Sanitary Sewer Overflow (SSO) event number shall satisfy this requirement. Within 30 days after submitting the preliminary report, the Permittee shall submit the final written report to this Los Angeles Water Board and USEPA. (A copy of the final written report, for a given incident, already submitted pursuant to *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems* (SSS WDR), may be submitted to the Los Angeles Water Board to satisfy this requirement.) The written report shall document the information required in paragraph 7.3.7.d below, monitoring results and any other information required in provisions of the Standard Provisions document including corrective measures implemented or proposed to be implemented to prevent/minimize future occurrences. The Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director for just cause can grant an extension for submittal of the final written report.

iii. The Permittee shall include a certification in the annual summary report (due according to the schedule in the MRP) that states that the sewer system emergency equipment, including alarm systems, backup pumps, standby power generators, and other critical emergency pump station components were maintained and tested in accordance with the Permittee's preventive maintenance plan. Any deviations from or modifications to the plan shall be discussed.

d. Records

The Permittee shall develop and maintain a record of all spills, overflows or bypasses of raw or partially treated sewage from its collection system or treatment plant. This record shall be made available to the Los Angeles Water Board and USEPA upon request and a spill summary shall be included in the annual summary report. The records shall contain:

- i. Date and time of each spill, overflow, or bypass;
- ii. Location of each spill, overflow, or bypass;
- iii. Estimated volume of each spill, overflow, and bypass including gross volume, amount recovered, and amount not recovered, monitoring results as required by section 7.3.7.b;
- iv. Cause of each spill, overflow, or bypass;
- v. Whether each spill, overflow, or bypass entered a receiving water and, if so, the name of the water body and whether it entered via storm drains or other man-made conveyances;
- vi. Any mitigation measures implemented;
- vii. Any corrective measures implemented or proposed to be implemented to prevent/minimize future occurrences; and

viii. Mandatory information included in SSO online reporting for finalizing and certifying the SSO report for each spill, overflow, or bypass under the SSS WDRs.

e. Activities Coordination

Although not required by this Order/Permit, the Los Angeles Water Board and USEPA Region 9 expect that the POTW's owners/operators will coordinate their compliance activities for consistency and efficiency with other entities that have responsibilities to implement: (i) this NPDES permit, including the Pretreatment Program, (ii) a Municipal Separate Storm Sewer Systems (MS4) NPDES permit that may contain spill prevention, sewer maintenance, reporting requirements and (iii) the statewide SSS WDRs. The Los Angeles Water Board also expects that a POTW's owners/operators will consider coordination with other agencies regarding the potential for the permissive integration of the MS4 with the wastewater collection system.

f. Consistency with SSS WDRs

The CWA prohibits the discharge of pollutants from point sources to surface waters of the United States unless authorized under an NPDES permit. (33 United States Code sections 1311, 1342). The Permittee must comply with the SSS WDRs (State Water Board Order Number 2006-0003-DWQ as amended by State Water Board Order No. WQ 2013-0058-EXEC). The SSS WDRs require public agencies that own or operate sanitary sewer systems with greater than one mile of sewer lines to enroll for coverage and comply with requirements, to develop and implement sewer system management plans, and report all SSOs to the State Water Board's online SSOs database. The Permittee enrolled in the SSS WDRs in 2006 and the Permittee's collection system is covered under the SSS WDRs. The Permittee must properly operate and maintain its collection system (40 CFR § 122.41 (e)), report any non-compliance (40 CFR § 122.41(1)(6) and (7)), and mitigate any discharge from the collection system in violation of this NPDES permit (40 CFR § 122.41(d)).

The requirements contained in this Order/Permit in sections 7.3.3.b (SCCP), 7.3.4 (Construction, Operation and Maintenance Specifications), and 7.3.7 (Spill Reporting Requirements) are intended to be consistent with the requirements of the SSS WDRs. The Los Angeles Water Board and USEPA recognize that there may be some overlap between these NPDES permit provisions and requirements in the SSS WDRs, related to the collection systems. The requirements of the SSS WDRs are considered the minimum thresholds (see finding 11 of State Water Board Order Number 2006-0003-DWQ). To encourage efficiency, the Los Angeles Water Board and USEPA Region 9 will accept the documentation prepared by the Permittees under the SSS WDRs for compliance purposes as satisfying the requirements in

sections 7.3.3. b, 7.3.4, and 7.3.6 provided the more stringent provisions contained in this NPDES permit are also addressed. Pursuant to the SSS WDRs, section D, provision 2(iii) and (iv), the provisions of this NPDES permit supersede the SSS WDRs, for all purposes, including enforcement, to the extent the requirements may be deemed duplicative.

7.3.8. Other Special Provisions – Not Applicable

7.3.9. Compliance Schedules - Not Applicable

8. COMPLIANCE DETERMINATION

Compliance with the effluent limitations contained in section 4 of this Order/Permit will be determined as specified below:

8.1. General

Compliance with effluent limitations for priority pollutants shall be determined using sample reporting protocols defined in the MRP and Attachment A of this Order/Permit. For purposes of reporting and administrative enforcement by the Regional Water Board, State Water Board, or USEPA, the Permittee shall be deemed out of compliance with effluent limitations if the concentration of the priority pollutant in the monitoring sample is greater than the corresponding effluent limitation and greater than or equal to the reporting level (RL) or ML.

8.2. 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 Permittee shall compute the median in place of the arithmetic mean in accordance with the following procedure:

- 8.2.1. 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.
- 8.2.2. 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.

8.3. Average Monthly Effluent Limitation (AMEL)

If the average (or when applicable, the median determined by subsection B above for multiple sample data) of daily discharges over a calendar month exceeds the AMEL for a given parameter, this will represent a single violation,

though the Permittee may be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of noncompliance in a 31-day month) in cases where discretionary administrative civil liabilities are appropriate. If only a single sample is collected during the calendar month and the analytical result for that sample exceeds the AMEL, the Permittee may be considered out of compliance for that calendar month. For those average monthly effluent limitations that are based on the 6-month median water quality objectives in the 2019 Ocean Plan, the daily value used to calculate these average monthly values for intermittent discharges, shall be considered to equal zero for days on which no discharge occurred. The Permittee will only be considered out of compliance for days when the discharge occurs. For any one calendar month during which no sample (daily discharge) is collected, no compliance determination can be made for that calendar month with respect to the AMEL.

If the analytical result of a single sample, monitored monthly, quarterly, semiannually, or annually, does not exceed the AMEL for a given parameter, the Permittee will have demonstrated compliance with the AMEL for each day of that month for that parameter.

If the analytical result of any single sample, monitored monthly, quarterly, semiannually, or annually, exceeds the AMEL for any parameter, the Permittee may collect up to four additional samples within the same calendar month. All analytical results shall be reported in the monitoring report for that month. The concentration of pollutant (an arithmetic mean or a median) in these samples estimated from the "Multiple Sample Data Reduction" section above, will be used for compliance determination.

In the event of noncompliance with an AMEL, the sampling frequency for that parameter shall be increased to weekly and shall continue at this level until compliance with the AMEL has been demonstrated.

8.4. Average Weekly Effluent Limitation (AWEL)

If the average of daily discharges over a calendar week exceeds the AWEL for a given parameter, a potential violation will be flagged and the Permittee will be considered out of compliance for each day of that week for that parameter, resulting in 7 days of noncompliance. The average of daily discharges over the calendar week that exceeds the AWEL for a parameter will be considered out of compliance for that week only. If only a single sample is collected during the calendar week and the analytical result for that sample exceeds the AWEL, the Permittee will be considered out of compliance for that calendar week. For any one calendar week during which no sample (daily discharge) is collected, no compliance determination can be made for that calendar week with respect to the AWEL.

A calendar week will begin on Sunday and end on Saturday. Partial calendar weeks at the end of calendar month will be carried forward to the next month in order to calculate and report a consecutive seven-day average value on Saturday.

8.5. Maximum Daily Effluent Limitation (MDEL)

If a 24-hour composite sample exceeds the MDEL for a given parameter, a potential violation will be flagged, and the Permittee will be considered out of compliance for that parameter for that one day only within the reporting period. If no sample (daily discharge) is taken over a calendar day, no compliance determination can be made for that day with respect to effluent violation determination, but compliance determination can be made for that day with respect to reporting violation determination.

8.6. Instantaneous Minimum Effluent Limitation

If the analytical result of a single grab sample is lower than the instantaneous minimum effluent limitation for a parameter, a potential violation will be flagged, and the Permittee will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples collected within a calendar day that both are lower than the instantaneous minimum effluent limitation would result in two instances of non-compliance with the instantaneous minimum effluent limitation).

8.7. Instantaneous Maximum Effluent Limitation

If the analytical result of a single grab sample is higher than the instantaneous maximum effluent limitation for a parameter, a potential violation will be flagged, and the Permittee will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples collected within a calendar day that both exceed the instantaneous maximum effluent limitation would result in two instances of non-compliance with the instantaneous maximum effluent limitation).

8.8. Six-month Median Effluent Limitation

If the median of daily discharges over any 180-day period exceeds the six-month median effluent limitation for a given parameter, a potential violation will be flagged, and the Permittee will be considered out of compliance for each day of that 180-day period for that parameter. The next assessment of compliance will occur after the next sample is collected. If only a single sample is collected during a given 180-day period and the analytical result for that sample exceeds the six-month median, the Permittee will be considered out of compliance for the 180-day period. For any 180-period during which no sample is collected, no compliance determination can be made for the six-month median effluent limitation.

8.9. Annual Average Effluent Limitation

If the annual average of monthly discharges over a calendar year exceeds the annual average effluent limitation for a given parameter, a potential violation will be flagged, and the Permittee will be considered out of compliance for each month of that year for that parameter. However, a potential violation of the annual average effluent limitation will be considered one violation for the purpose of assessing State mandatory minimum penalties. If no sample (daily discharge)

is collected over a calendar year, no compliance determination can be made for that year with respect to effluent violation determination, but compliance determination can be made for that month with respect to reporting violation determination.

8.10. Chronic Toxicity

The discharge is subject to determination of "Pass" or "Fail" from a chronic toxicity test using the TST statistical t-test approach described in the National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (USEPA 833-R-10-003, 2010), Appendix A, Figure A-1. Table A-1, and Appendix B. Table B-1. The null hypothesis (Ho) for the TST statistical approach is: Mean discharge In-stream Waste Concentration (IWC) response ≤0.75 × Mean control response. A test result that rejects this null hypothesis is reported as "Pass." A test result that does not reject this null hypothesis is reported as "Fail." This is a t-test (formally Student's t-test), a statistical analysis comparing two sets of replicate observations – in the case of a Whole Effluent Toxicity (WET) test, only two test concentrations (i.e., a control and IWC). The purpose of this statistical test is to determine if the means of the two sets of observations are different (i.e., if the IWC or receiving water concentration differs from the control (the test result is "Pass" or "Fail")). The Welch's t-test employed by the TST statistical approach is an adaptation of Student's t-test and is used with two samples having unequal variances.

The MDEL for chronic toxicity is exceeded and a violation will be flagged when a chronic toxicity test, analyzed using the TST statistical approach, results in "Fail".

The chronic toxicity MDEL is set at the IWC for the discharge (7.1% effluent for Discharge Point 001 and 1.04% effluent for Discharge Point 002) and expressed in units of the TST statistical approach ("Pass" or "Fail"). All NPDES effluent compliance monitoring for the chronic toxicity MDEL shall be reported using only the IWC effluent concentration and negative control, expressed in units of the TST. The TST hypothesis (Ho) (see above) is statistically analyzed using the IWC and a negative control. Effluent toxicity tests shall be run using Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136, 1995). The Los Angeles Water Board and USEPA Region 9's review of reported toxicity test results will include review of concentration-response patterns as appropriate (see Fact Sheet discussion at 5.3.6). As described in bioassay laboratory audit correspondence from the State Water Resources Control Board dated August 07, 2014, and from USEPA dated December 24, 2013, the Percent Minimum Significant Difference (PMSD) criteria only apply to compliance reporting for the No Observed Effect Concentration (NOEC) and the sublethal statistical endpoints of the NOEC, and therefore are not used to interpret results using the TST statistical approach. Standard Operating Procedures used by the toxicity testing laboratory to identify and report valid, invalid, anomalous, or inconclusive effluent (and receiving water) toxicity test

measurement results from the TST statistical approach, including those that incorporate a consideration of concentration-response patterns, must be submitted to the Los Angeles Water Board (40 CFR § 122.41(h)). The Los Angeles Water Board will make a final determination as to whether a toxicity test result is valid, and may consult with the Permittee, USEPA, the State Water Board's Quality Assurance Officer, or the State Water Board's Environmental Laboratory Accreditation Program (ELAP) as needed. The Los Angeles Water Board or USEPA Region 9 may consider the results of any TIE/TRE studies in an enforcement action.

8.11. Percent Removal

The average monthly percent removal is the removal efficiency expressed in percentage across a treatment plant for a given pollutant parameter, as determined from the 30-day average values of pollutant concentrations (C in mg/L) of influent and effluent samples collected at about the same time using the following equation:

Percent Removal (%) = [1-(C_{Effluent}/C_{Influent})] x 100 %

When preferred, the Permittee may substitute mass loadings and mass emissions for the concentrations.

8.12. Mass and Concentration Limitations

Compliance with mass and concentration effluent limitations for the same parameter shall be determined separately with their respective limitations. When the concentration of a constituent in an effluent sample is determined to be ND or DNQ, the corresponding mass emission rate determined from that sample concentration shall also be reported as ND or DNQ.

8.13. Compliance with Single Constituent Effluent Limitations

Permittees may be considered out of compliance with the effluent limitation if the concentration of the pollutant (see section 8.2 "Multiple Sample Data Reduction" above) in the monitoring sample is greater than the effluent limitation and greater than or equal to the ML or RL.

8.14. Compliance with effluent limitations expressed as a sum of several constituents

Permittees are out of compliance with an effluent limitation which applies to the sum of a group of chemicals (e.g., PCBs) if the sum of the individual pollutant concentrations is greater than the effluent limitation. Individual pollutants of the group will be considered to have a concentration of zero if the constituent is reported as ND or DNQ.

8.15. Compliance with TCDD Equivalents

TCDD equivalents shall be monitored and calculated using the following formula, where the MLs, and toxicity equivalency factors (TEFs) are as provided in the table below. The Permittee shall report all measured values of individual

congeners, including data qualifiers. When calculating TCDD equivalents, the Permittee shall set congener concentrations below the minimum levels to zero. USEPA method 1613 may be used to analyze dioxin and furan congeners.

$$Dioxin\ Concentration = \sum_{1}^{17} (TEQi) = \sum_{1}^{17} (Ci)(TEFi)$$

where:

Ci = individual concentration of a dioxin or furan congener

TEFi = individual TEF for a congener

MLs and TEFs

Congeners	MLs (pg/L)	TEFs
2,3,7,8-TetraCDD	10	1.0
1,2,3,7,8-PentaCDD	50	0.5
1,2,3,4,7,8-HexaCDD	50	0.1
1,2,3,6,7,8-HexaCDD	50	0.1
1,2,3,7,8,9-HexaCDD	50	0.1
1,2,3,4,6,7,8-HeptaCDD	50	0.01
OctaCDD	100	0.001
2,3,7,8-TetraCDF	10	0.1
1,2,3,7,8-PentaCDF	50	0.05
2,3,4,7,8-PentaCDF	50	0.5
1,2,3,4,7,8-HexaCDF	50	0.1
1,2,3,6,7,8-HexaCDF	50	0.1
1,2,3,7,8,9-HexaCDF	50	0.1
2,3,4,6,7,8-HexaCDF	50	0.1
1,2,3,4,6,7,8-HeptaCDFs	50	0.01
1,2,3,4,7,8,9-HeptaCDFs	50	0.01
OctaCDF	100	0.001

8.16. Mass Emission Rate

The mass emission rate shall be obtained from the following calculation for any calendar day:

Mass emission rate (lbs/day) =
$$\frac{8.34}{N} \sum_{i=1}^{N} Q_i C_i$$

Mass emission rate
$$(kg/day) = \frac{3.79}{N} \sum_{i=1}^{N} Q_i C_i$$

in which 'N' is the number of samples analyzed in any calendar day. 'Q_i' and 'C_i' are the flow rate (MGD) and the constituent concentration (mg/L), respectively, which are associated with each of the 'N' grab samples, which may be collected on any calendar day. If a composite sample is taken, 'C_i' is the concentration measured in the composite sample and 'Q_i' is the average flow rate occurring during the period over which samples are composited.

The daily concentration of all constituents shall be determined from the flowweighted average of the same constituents in the combined waste streams as follows:

$$Daily\ concentration = \frac{1}{Q_t} \sum_{i=1}^{N} Q_i C_i$$

in which 'N' is the number of component waste streams. 'Q_i' and 'C_i' are the flow rate (MGD) and the constituent concentration (mg/L), respectively, which are associated with each of the 'N' waste streams. 'Q_t' is the total flow rate of the combined waste streams.

8.17. Bacterial Standards and Analysis

8.17.1. The geometric mean is a type of mean or average that indicates the central tendency or typical value of a set of numbers by using the product of their values (as opposed to the arithmetic mean which uses their sum). The geometric mean is defined as the nth root of the product of n numbers. The formula is expressed as:

$$GM = \sqrt[n]{(x_1)(x_2)(x_3)\cdots(x_n)}$$

where x is the sample value and n is the number of samples taken.

- 8.17.2. The STV for the bacteria water quality objective is a set value that approximates the 90th percentile of the water quality distribution of a bacterial population. 8.17.3. For bacterial analyses, sample dilutions should be performed so the expected range of values is bracketed (for example, with multiple tube fermentation method or membrane filtration method, 2 to 16,000 per 100 mL for total and fecal coliform, at a minimum, and 1 to 1000 per 100 mL for *Enterococcus*). The detection methods used for each analysis shall be reported with the results of the analyses.
- 8.17.4. Detection methods used for coliforms (total and fecal) shall be those presented in Table 1A of 40 CFR § 136, unless alternate methods have been approved by USEPA pursuant to 40 CFR § 136, or improved methods have been determined by the Los Angeles Water Board Executive Officer and/or the USEPA Region 9 Water Division Director.
- 8.17.5. Detection methods used for *Enterococcus* and shall be those presented in Table 1A of 40 CFR § 136 or in the USEPA publication EPA 600/4-85/076, *Test Methods for* Escherichia coli *and* Enterococci *in Water by*

Membrane Filter Procedure or any improved method determined by the Los Angeles Water Board Executive Officer and/or the USEPA Region 9 Water Division Director to be appropriate.

8.18. Single Operational Upset (SOU)

An SOU that leads to simultaneous violations of more than one pollutant parameter shall be treated as a single violation and limits the Permittee's liability in accordance with the following conditions:

- 8.18.1. An SOU is broadly defined as a single unusual event that temporarily disrupts the usually satisfactory operation of a system in such a way that it results in violation of multiple pollutant parameters.
- 8.18.2. A Permittee may assert SOU to limit liability only for those violations which the Permittee submitted notice of the upset as required in Provision 5.5.2.b of Attachment D Standard Provisions.
- 8.18.3. For purpose outside of CWC section 13385 subdivisions (h) and (i), determination of compliance and civil liability (including any more specific definition of SOU, the requirements for Permittees to assert the SOU limitation of liability, and the manner of counting violations) shall be in accordance with USEPA Memorandum *Issuance of Guidance Interpreting Single Operational Upset* (September 27, 1989).
- 8.18.4. For purpose of CWC section 13385 (h) and (i), determination of compliance and civil liability (including any more specific definition of SOU, the requirements for Permittees to assert the SOU limitation of liability, and the manner of counting violations) shall be in accordance with CWC section 13385 (f)(2).

ATTACHMENT A - DEFINITIONS

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:

Arithmetic mean =
$$\mu = (\sum x)/n$$

Where: $\sum_{i=1}^{\infty}$ is the sum of the measured ambient water concentrations, and n is the number of samples.

Areas of Special Biological Significance (ASBS)

Those areas designated by the State Water Resources Control Board (State Water Board) as ocean areas requiring protection of species or biological communities to the extent that alteration of natural water quality is undesirable. All Areas of Special Biological Significance are also classified as a subset of STATE WATER QUALITY PROTECTION AREAS.

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.

Biosolids

Sewage sludge that has been treated and tested and shown to be capable of being beneficially and legally used pursuant to federal and state regulators as a soil amendment for agricultural, silvicultural, horticultural, and land reclamation activities as specified under 40 CFR Part 503.

Carcinogenic

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

Chlordane

Shall mean the sum of chlordane-alpha, chlordane-gamma, chlordene-alpha, chlordene-gamma, nonachlor-alpha, nonachlor-gamma, and oxychlordane.

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.

Composite Sample, 24-hour

For flow rate measurements, the arithmetic mean of no fewer than eight individual measurements taken at equal intervals for 24 hours or for the duration of discharge, whichever is shorter.

Composite sample, for other than flow rate measurements:

- a. No fewer than eight individual sample portions taken at equal time intervals for 24 hours. The volume of each individual sample portion shall be directly proportional to the discharge flow rate at the time of sampling; or,
- b. No fewer than eight individual sample portions taken of equal time volume taken over a 24-hour period. The time interval between each individual sample portion shall vary such that the volume of the discharge between each individual sample portion remains constant.

The compositing period shall equal 24 hours.

The composite sample result shall be reported for the calendar day during which composite sampling ends.

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.

DDT

Shall mean the sum of 4,4'DDT, 2,4'DDT, 4,4'DDE, 2,4'DDE, 4,4'DDD, and 2,4'DDD.

Degrade

Degradation shall be determined by comparison of the waste field and reference site(s) for characteristic species diversity, population density, contamination, growth anomalies, debility, or supplanting of normal species by undesirable plant and animal

species. Degradation occurs if there are significant differences in any of three major biotic groups, namely, demersal fish, benthic invertebrates, or attached algae. Other groups may be evaluated where benthic species are not affected or are not the only ones affected.

Detected, but Not Quantified (DNQ)

Sample results that are less than the reported Minimum Level, but greater than or equal to the laboratory's MDL. Sample results reported as DNQ are estimated concentrations.

Dichlorobenzenes

The sum of 1,2- and 1,3-dichlorobenzene.

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.

Downstream Ocean Waters

Waters downstream with respect to ocean currents.

Dredged Material

Any material excavated or dredged from the navigable waters of the United States, including material otherwise referred to as "spoil."

Enclosed Bays

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 headlands or outermost harbor works is less than 75 percent of the greatest dimension of the enclosed portion of the bay. This definition includes but is not limited to: Humboldt Bay, Bodega Harbor, Tomales Bay, Drakes Estero, San Francisco Bay, Morro Bay, Los Angeles Harbor, Upper and Lower Newport Bay, Mission Bay, and San Diego Bay.

Endosulfan

The sum of endosulfan-alpha and -beta and endosulfan sulfate.

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 and Coastal Lagoons

Waters at the mouths of streams that serve as mixing zones for fresh and ocean waters during a major portion of the year. Mouths of streams that are temporarily separated from the ocean by sandbars shall be considered as estuaries. Estuarine waters will generally be considered to extend from a bay or the open ocean to the upstream limit of tidal action but may be considered to extend seaward if significant mixing of fresh and saltwater occurs in the open coastal waters. The waters described by this definition include but are not limited to the Sacramento-San Joaquin Delta as defined by Section

12220 of the California Water Code (CWC), Suisun Bay, Carquinez Strait downstream to Carquinez Bridge, and appropriate areas of the Smith, Klamath, Mad, Eel, Noyo, and Russian Rivers.

Grab Sample

An individual sample collected during a period not to exceed 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not occur during hydraulic peaks.

Halomethanes

The sum of bromoform, bromomethane (methyl bromide) and chloromethane (methyl chloride).

Hexachlorocyclohexane (HCH)

The sum of the alpha, beta, gamma (lindane) and delta isomers of hexachlorocyclohexane.

Initial Dilution

The process that results in the rapid and irreversible turbulent mixing of wastewater with ocean water around the point of discharge.

For a submerged buoyant discharge, characteristic of most municipal and industrial wastes that are released from the submarine outfalls, the momentum of the discharge and its initial buoyancy act together to produce turbulent mixing. Initial dilution in this case is completed when the diluting wastewater ceases to rise in the water column and first begins to spread horizontally.

For shallow water submerged discharges, surface discharges, and non-buoyant discharges, characteristic of cooling water wastes and some individual discharges, turbulent mixing results primarily from the momentum of discharge. Initial dilution, in these cases, is considered to be completed when the momentum induced velocity of the discharge ceases to produce significant mixing of the waste, or the diluting plume reaches a fixed distance from the discharge to be specified by the Los Angeles Water Board, whichever results in the lower estimate for initial dilution.

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).

In-stream Waste Concentration (IWC)

The concentration of a toxicant or the parameter toxicity in the receiving water after mixing.

Kelp Beds

For purposes of the bacteriological standards of the Ocean Plan, are significant aggregations of marine algae of the genera *Macrocystis* and *Nereocystis*. Kelp beds

include the total foliage canopy of *Macrocystis* and *Nereocystis* plants throughout the water column.

Mariculture

The culture of plants and animals in marine waters independent of any pollution source.

Material

(a) In common usage: (1) the substance or substances of which a thing is made or composed (2) substantial; (b) For purposes of the Ocean Plan relating to waste disposal, dredging and the disposal of dredged material and fill, MATERIAL means matter of any kind or description which is subject to regulation as waste, or any material dredged from the navigable waters of the United States. See also, DREDGED MATERIAL.

Maximum Daily Effluent Limitation (MDEL)

The highest allowable daily discharge of a pollutant.

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 = $X_{(n/2)+1}/2$ (i.e., the midpoint between the n/2 and n/2+1).

Method Detection Limit (MDL)

The minimum concentration of a substance that can be reported with 99 percent confidence that the measured concentration is distinguishable from method blank results, as defined in 40 CFR part 136, Attachment B.

Minimum Level (ML)

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 all the method specified sample weights, volumes, and processing steps have been followed.

Natural Light

Reduction of natural light may be determined by the Los Angeles Water Board and USEPA by measurement of light transmissivity or total irradiance, or both, according to the monitoring needs of the Los Angeles Water Board and USEPA.

Not Detected (ND)

Those sample results less than the laboratory's MDL.

Ocean Waters

The territorial marine waters of the state as defined by California law to the extent these waters are outside of enclosed bays, estuaries, and coastal lagoons. If a discharge outside the territorial waters of the state could affect the quality of the waters of the state, the discharge may be regulated to assure no violation of the Ocean Plan will occur in ocean waters.

PAHs (polynuclear aromatic hydrocarbons)

The sum of acenaphthylene, anthracene, 1,2-benzanthracene, 3,4 benzofluoranthene, benzo[k]fluoranthene, 1,12-benzoperylene, benzo[a]pyrene, chrysene, dibenzo[ah]anthracene, fluorene, indeno[1,2,3-cd]pyrene, phenanthrene and pyrene.

PCBs (polychlorinated biphenyls) as Aroclors

The sum of chlorinated biphenyls whose analytical characteristics resemble those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254 and Aroclor-1260.

PCBs as Congeners

The sum of the following 41 individually quantified PCB congeners or mixtures of isomers of a single congener in a co-elution: PCB-18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 201, and 206.

Persistent Pollutants

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

Phenols (chlorinated)

The sum of 2-chlorophenol, 2,4-dichlorophenol, 4-chloro-3-methylphenol, 2,4,6-trichlorophenol, and pentachlorophenol.

Phenols (non-chlorinated)

The sum of 2,4-dimethylphenol, 2-nitrophenol, 4-nitrophenol, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and phenol.

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 Ocean Plan Table 1 pollutants 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 Los Angeles Water Board and USEPA may consider cost effectiveness when establishing the requirements of a PMP. The completion and implementation of a Pollution Prevention Plan, if required pursuant to CWC section 13263.3(d), shall be considered to fulfill the PMP requirements.

Pollution Prevention

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 CWC 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), Los Angeles Water, or USEPA.

Publicly Owned Treatment Works

A treatment works as defined by section 212 of the CWA, which is owned by a State or municipality (as defined by section 502(4) of the Act). This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality which has jurisdiction over the Indirect Discharges to and the discharges from such treatment works. (40 CFR § 403.3(q).)

Reported Minimum Level

The reported ML (also known as the Reporting Level or 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/Permit, including an additional factor if applicable as discussed herein. The MLs included in this Order/Permit correspond to approved analytical methods for reporting a sample result that are selected by the Los Angeles Water Board and USEPA either from Appendix II of the Ocean Plan in accordance with section III.C.5.a. of the Ocean Plan or established in accordance with section III.C.5.b. of the Ocean Plan. 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 reported ML.

Satellite Collection System

The portion, if any, of a sanitary sewer system owned or operated by a different public agency than the agency that owns and operates the wastewater treatment facility that a sanitary sewer system is tributary to.

Shellfish

Organisms identified by the California Department of Health Services as shellfish for public health purposes (i.e., mussels, clams and oysters).

Significant Difference

Defined as a statistically significant difference in the means of two distributions of sampling results at the 95 percent confidence level.

Six-Month Median Effluent Limitation

The highest allowable moving median of all daily discharges for any 180-day period.

Standard Deviation (σ)

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

$$\sigma = \sqrt{\frac{\sum (x - \mu)^2}{n - 1}}$$

where:

x is the observed value;

 μ is the arithmetic mean of the observed values; and n is the number of samples.

State Water Quality Protection Areas (SWQPAs)

Non-terrestrial marine or estuarine areas designated to protect marine species or biological communities from an undesirable alteration in natural water quality. All AREAS OF SPECIAL BIOLOGICAL SIGNIFICANCE (ASBS) that were previously designated by the State Water Board in Resolutions 74-28, 74-32, and 75-61 are now also classified as a subset of State Water Quality Protection Areas and require special protections afforded by the Ocean Plan.

Statistical Threshold Value (STV)

The STV for the bacteria water quality objectives is a set value that approximates the 90th percentile of the water quality distribution of a bacterial population.

TCDD Equivalents

The sum of the concentrations of chlorinated dibenzodioxins (2,3,7,8-CDDs) and chlorinated dibenzofurans (2,3,7,8-CDFs) multiplied by their respective toxicity factors, as shown in the table below.

Congeners	MLs (pg/L)	TEFs
2,3,7,8-TetraCDD	10	1.0
1,2,3,7,8-PentaCDD	50	0.5
1,2,3,4,7,8-HexaCDD	50	0.1
1,2,3,6,7,8-HexaCDD	50	0.1
1,2,3,7,8,9-HexaCDD	50	0.1
1,2,3,4,6,7,8-HeptaCDD	50	0.01
OctaCDD	100	0.001
2,3,7,8-TetraCDF	10	0.1
1,2,3,7,8-PentaCDF	50	0.05
2,3,4,7,8-PentaCDF	50	0.5
1,2,3,4,7,8-HexaCDF	50	0.1
1,2,3,6,7,8-HexaCDF	50	0.1
1,2,3,7,8,9-HexaCDF	50	0.1
2,3,4,6,7,8-HexaCDF	50	0.1
1,2,3,4,6,7,8-HeptaCDFs	50	0.01
1,2,3,4,7,8,9-HeptaCDFs	50	0.01

Congeners	MLs (pg/L)	TEFs
OctaCDF	100	0.001

Test of Significant Toxicity (TST)

A statistical approach used to analyze toxicity test data. The TST incorporates a restated null hypothesis, Welch's t-test, and the biological effect thresholds for chronic and acute toxicity.

Total Nitrogen

Shall mean the sum of nitrate nitrogen, nitrite nitrogen, ammonia nitrogen, and total organic nitrogen.

Toxicity Identification Evaluation (TIE)

Set of procedures to identify the specific chemical(s) responsible for toxicity. These procedures are performed in three phases (characterization, identification, and confirmation) using aquatic organism toxicity tests.

Toxicity Reduction Evaluation (TRE)

A study conducted in a stepwise process designed to identify the causative agents of effluent or ambient toxicity, isolate the sources of toxicity, evaluate the effectiveness of toxicity control options, and then confirm the reduction in toxicity. The first steps of the TRE consist of the collection of data relevant to the toxicity, including additional toxicity testing, and an evaluation of facility operations and maintenance practices, and best management practices. A Toxicity Identification Evaluation (TIE) may be required as part of the TRE, if appropriate.

Waste

As used in the Ocean Plan, waste includes a Discharger's total discharge, of whatever origin, i.e., gross, not net, discharge.

Water Recycling

The treatment of wastewater to render it suitable for reuse, the transportation of treated wastewater to the place of use, and the actual use of treated wastewater for a direct beneficial use or controlled use that would not otherwise occur.

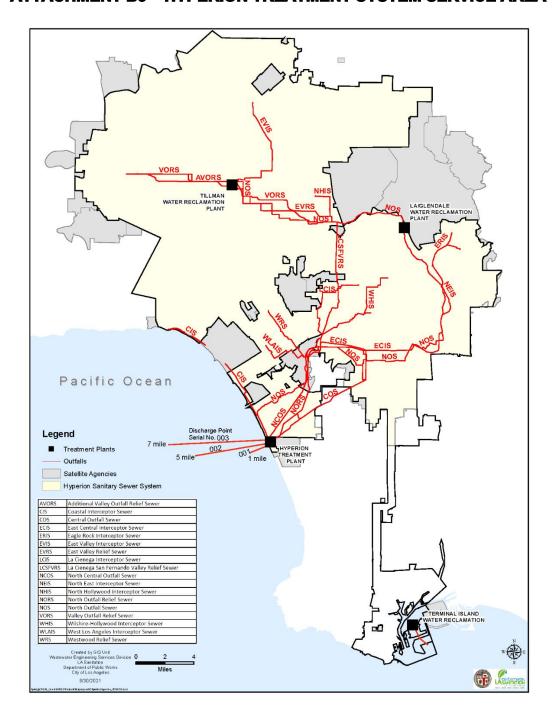
ATTACHMENT B1 - MAP OF HYPERION WRP SURROUNDING AREA



ATTACHMENT B2 - SITE LAYOUT OF HYPERION WRP



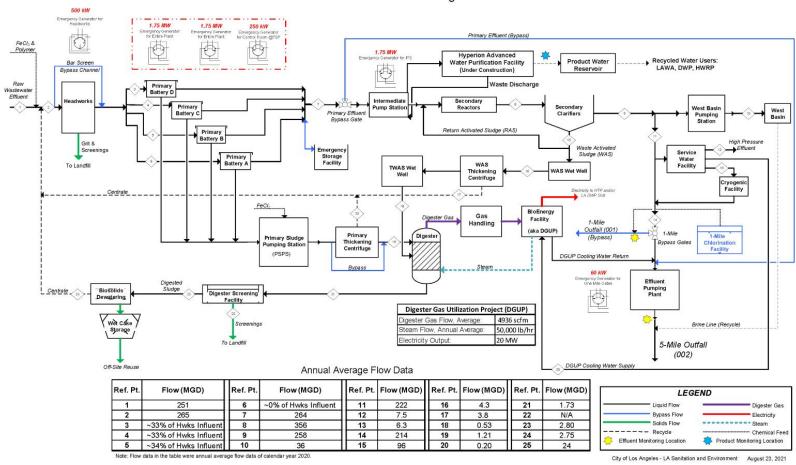
ATTACHMENT B3 - HYPERION TREATMENT SYSTEM SERVICE AREA



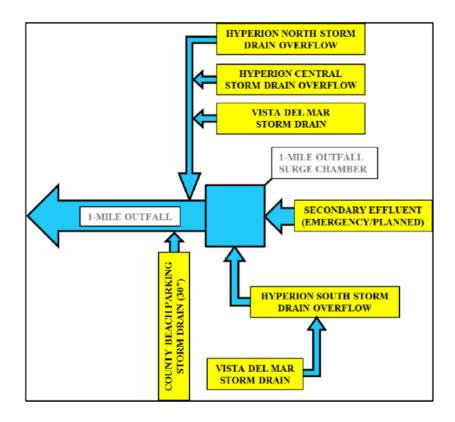
ATTACHMENT C1 - PROCESS FLOW DIAGRAM OF HYPERION WRP

Hyperion Treatment Plant

Process Flow Diagram



ATTACHMENT C2 - HYPERION WRP ONE-MILE OUTFALL CONNECTIONS



ATTACHMENT D- STANDARD PROVISIONS

1. STANDARD PROVISIONS - PERMIT COMPLIANCE

1.1. Duty to Comply

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

1.2. 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/Permit. (40 CFR § 122.41(c).)

1.3. Duty to Mitigate

The Discharger shall take all reasonable steps to minimize or prevent any discharge in violation of this Order/Permit that has a reasonable likelihood of adversely affecting human health or the environment. (40 CFR § 122.41(d).)

1.4. 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/Permit. Proper operation and maintenance also include 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/Permit. (40 CFR § 122.41(e).)

1.5. Property Rights

1.5.1. This Order/Permit does not convey any property rights of any sort or any exclusive privileges. (40 CFR § 122.41(g).)

1.5.2. The issuance of this Order/Permit 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 CFR § 122.5(c).)

1.6. Inspection and Entry

The Discharger shall allow the Los Angeles Water Board, State Water Board, USEPA Region 9, 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 USC. § 1318(a)(4)(b); 40 CFR § 122.41(i); CWC, §§ 13267, 13383):

- 1.6.1. 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/Permit (33 U.S.C. § 1318(a)(4)(b)(i); 40 CFR § 122.41(i)(1); CWC, §§ 13267, 13383);
- 1.6.2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order/Permit (33 U.S.C. § 318(a)(4)(b)(ii); 40 CFR § 122.41(i)(2); CWC, §§ 13267, 13383);
- 1.6.3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order/Permit (33 U.S.C. § 1318(a)(4)(b)(ii); 40 CFR § 122.41(i)(3); CWC, §§ 13267, 13383); and
- 1.6.4. Sample or monitor, at reasonable times, for the purposes of assuring Order/Permit compliance or as otherwise authorized by the CWA or the Water Code, any substances or parameters at any location. (33 USC § 1318(a)(4)(b); 40 CFR § 122.41(i)(4); CWC, §§ 13267, 13383.)

1.7. Bypass

1.7.1. Definitions

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. (40 CFR § 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 CFR § 122.41(m)(1)(ii).)
- 1.7.2. 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 ensure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions Permit Compliance 1.7.3, 1.7.4, and 1.7.5 below. (40 CFR § 122.41(m)(2).)

- 1.7.3. Prohibition of bypass. Bypass is prohibited, and the Los Angeles Water or USEPA Region 9 may take enforcement action against a Discharger for bypass, unless (40 CFR § 122.41(m)(4)(i)):
 - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage (40 CFR § 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 CFR § 122.41(m)(4)(i)(B)); and
 - c. The Discharger submitted notice to the Los Angeles Water Board and USEPA Region 9 as required under Standard Provisions – Permit Compliance 1.7.5 below. (40 CFR § 122.41(m)(4)(i)(C).)
- 1.7.4. The Los Angeles Water Board and USEPA Region 9 may approve an anticipated bypass, after considering its adverse effects, if the Los Angeles Water Board and USEPA Region 9 determine that it will meet the three conditions listed in Standard Provisions Permit Compliance 1.7.3 above. (40 CFR § 122.41(m)(4)(ii).)

1.7.5. 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 Los Angeles Water Board and USEPA Region 9. As of December 21, 2025, all notices submitted in compliance with this section must be submitted electronically by the Discharger to the Los Angeles Water Board and USEPA Region 9 or initial recipient, as defined in 40 CFR § 127.2(b), in compliance with this section and 40 CFR § 3 (including, in all cases, subpart D to part 3), 122.22 and part 127. Part 127 is not intended to undo existing requirements for electronic reporting. Prior to this date, and independent of part 127, the Discharger may be required to report electronically if specified by a particular Order or if required to do so by State law. (40 CFR § 122.41(m)(3)(i).)
- b. Unanticipated bypass. The Discharger shall submit a notice of an unanticipated bypass as required in Standard Provisions Reporting 5.5 below (24-hour notice). As of December 21, 2025, all notices submitted in compliance with this section must be submitted electronically by the Discharger to the Los Angeles Water Board and USEPA Region 9 or initial recipient, as defined in 40 CFR § 127.2(b), in compliance with this

section and 40 CFR § 3 (including, in all cases, subpart D to part 3), 122.22 and part 127. Part 127 is not intended to undo existing requirements for electronic reporting. Prior to this date, and independent of part 127, the Discharger may be required to report electronically if specified by a particular Order or if required to do so by State law. (40 CFR § 122.41(m)(3)(ii).)

1.8. 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 CFR § 122.41(n)(1).)

- 1.8.1. 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 1.8.2 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 CFR § 122.41(n)(2).)
- 1.8.2. 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 CFR § 122.41(n)(3)):
 - a. An upset occurred and that the Discharger can identify the cause(s) of the upset (40 CFR § 122.41(n)(3)(i));
 - b. The permitted facility was, at the time, being properly operated (40 CFR § 122.41(n)(3)(ii));
 - c. The Discharger submitted notice of the upset as required in Standard Provisions Reporting 5.5.2.b below (24-hour notice) (40 CFR § 122.41(n)(3)(iii)); and
 - d. The Discharger complied with any remedial measures required under Standard Provisions – Permit Compliance 1.3 above. (40 CFR § 122.41(n)(3)(iv).)
- 1.8.3. Burden of proof. In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof. (40 CFR § 122.41(n)(4).)

2. STANDARD PROVISIONS - PERMIT ACTION

2.1. General

This Order/Permit 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 CFR § 122.41(f).)

2.2. Duty to Reapply

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

2.3. Transfers

This Order/Permit is not transferable to any person except after notice to the Los Angeles Water Board and USEPA. The Los Angeles Water Board and USEPA Region 9 may require modification or revocation and reissuance of the Order/Permit to change the name of the Discharger and incorporate such other requirements as may be necessary under the CWA and the Water Code. (40 CFR §§ 122.41(I)(3), 122.61.)

3. STANDARD PROVISIONS - MONITORING

- 3.1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (40 CFR § 122.41(j)(1).)
- 3.2. Monitoring must be conducted according to test procedures approved under 40 CFR part 136 for the analyses of pollutants unless another method is required under 40 CFR chapter 1, subchapter N. Monitoring must be conducted according to sufficiently sensitive test methods approved under 40 CFR part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter 1, subchapter N. For the purposes of this paragraph, a method is sufficiently sensitive when:
 - 3.2.1. 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
 - 3.2.2. The method has the lowest ML of the analytical methods approved under 40 CFR part 136 or required under 40 CFR chapter 1, subchapter N for the measured pollutant or pollutant parameter.

In the case of pollutants or pollutant parameters for which there are no approved methods under 40 CFR part 136 or otherwise required under 40 CFR chapter 1, subchapter N, monitoring must be conducted according to a test procedure specified in this Order/Permit for such pollutants or pollutant parameters.

(40 CFR §§ 122.21(e)(3),122.41(j)(4), 122.44(i)(1)(iv).)

4. STANDARD PROVISIONS - RECORDS

- 4.1. 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/Permit, and records of all data used to complete the application for this Order/Permit, 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 Los Angeles Water Board Executive Officer or USEPA Water Region 9 Division Director at any time. (40 CFR § 122.41(j)(2).)
- 4.2. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements (40 CFR § 122.41(j)(3)(i));
 - b. The individual(s) who performed the sampling or measurements (40 CFR § 122.41(j)(3)(ii));
 - c. The date(s) analyses were performed (40 CFR § 122.41(j)(3)(iii));
 - d. The individual(s) who performed the analyses (40 CFR § 122.41(j)(3)(iv));
 - e. The analytical techniques or methods used (40 CFR § 122.41(j)(3)(v)); and
 - f. The results of such analyses. (40 CFR § 122.41(j)(3)(vi).)
- 4.3. Claims of confidentiality for the following information will be denied (40 CFR § 122.7(b)):
 - a. The name and address of any permit applicant or Discharger (40 CFR § 122.7(b)(1)); and
 - b. Permit applications and attachments, permits and effluent data. (40 CFR § 122.7(b)(2).)

5. STANDARD PROVISIONS - REPORTING

5.1. Duty to Provide Information

The Discharger shall furnish to the Los Angeles Water Board, State Water Board, or USEPA Region 9 within a reasonable time, any information which the Los Angeles Water Board, State Water Board, or USEPA Region 9 may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order/Permit or to determine compliance with this Order/Permit.

Upon request, the Discharger shall also furnish to the Los Angeles Water Board, State Water Board, or USEPA Region 9 copies of records required to be kept by this Order/Permit. (40 CFR § 122.41(h); CWC, §§ 13267, 13383.)

5.2. Signatory and Certification Requirements

- 5.2.1. All applications, reports, or information submitted to the Los Angeles Water Board, State Water Board, and/or USEPA Region 9 shall be signed and certified in accordance with Standard Provisions Reporting 5.2.2, 5.2.3, 5.2.4, 5.2.5, and 5.2.6 below. (40 CFR § 122.41(k).)
- 5.2.2. 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 USEPA). (40 CFR § 122.22(a)(3).).
- 5.2.3. All reports required by this Order/Permit and other information requested by the Los Angeles Water Board, State Water Board, or USEPA Region 9 shall be signed by a person described in Standard Provisions Reporting 5.2.2 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 5.2.2 above (40 CFR § 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 CFR § 122.22(b)(2)); and
 - c. The written authorization is submitted to the Los Angeles Water Board, State Water Board, and USEPA. (40 CFR § 122.22(b)(3).)
- 5.2.4. If an authorization under Standard Provisions Reporting 5.2.3 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 5.2.3 above must be submitted to the Los Angeles Water Board, State Water Board, and USEPA Region 9 prior to or together with any reports, information, or applications, to be signed by an authorized representative. (40 CFR § 122.22(c).)
- 5.2.5. Any person signing a document under Standard Provisions Reporting 5.2.2 or 5.2.3 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 CFR § 122.22(d).)

5.2.6. Any person providing the electronic signature for documents described in Standard Provisions – 5.2.1, 5.2.2, or 5.2.3 that are submitted electronically shall meet all relevant requirements of Standard Provisions – Reporting 5.2 and shall ensure that all relevant requirements of 40 CFR part 3 (Cross-Media Electronic Reporting) and 40 CFR part 127 (NPDES Electronic Reporting Requirements) are met for that submission. (40 C.F.R § 122.22(e).)

5.3. Monitoring Reports

- 5.3.1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program (Attachment E) in this Order/Permit. (40 CFR § 122.41(I)(4).)
- 5.3.2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Los Angeles Water Board, State Water Board, or USEPA Region 9. As of December 21, 2016, all reports and forms must be submitted electronically to the initial recipient defined in Standard Provisions Reporting 5.10 and comply with 40 CFR part 3, 40 CFR section 122.22, and 40 CFR part 127. (40 CFR § 122.41(I)(4)(i).)
- 5.3.3. If the Permittee monitors any pollutant more frequently than required by this Order/Permit using test procedures approved under 40 CFR part 136, or another method required for an industry-specific waste stream under 40 CFR chapter 1, subchapter N, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Los Angeles Water Board, State Water Board, and/or USEPA Region 9.(40 CFR § 122.41(I)(4)(ii).)
- 5.3.4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order/Permit. (40 CFR § 122.41(I)(4)(iii).)

5.4. 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/Permit, shall be submitted no later than 14 days following each schedule date

(40 CFR § 122.41(I)(5).)

5.5. Twenty-Four Hour Reporting

5.5.1. The Permit shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Permittee becomes aware of the circumstances. A report shall also be provided within five (5) days of the time the Permittee 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.

For noncompliance events related to combined sewer overflows, sanitary sewer overflows, or bypass events, these reports must include the data described above (with the exception of time of discovery) as well as the type of event (i.e., combined sewer overflow, sanitary sewer overflow, or bypass event), type of overflow structure (e.g., manhole, combined sewer overflow outfall), discharge volume untreated by the treatment works treating domestic sewage, types of human health and environmental impacts of the event, and whether the noncompliance was related to wet weather.

As of December 21, 2020, all reports related to combined sewer overflows, sanitary sewer overflows, or bypass events must be submitted to the Los Angeles Water Board/USEPA Region 9 and must be submitted electronically by the Permittee to the initial recipient defined in Standard Provisions – Reporting 5.10. The reports shall comply with 40 CFR part 3, 40 CFR section 122.22, and 40 CFR part 127. The Los Angeles Water Board/USEPA Region 9 may also require the Permittee to electronically submit reports not related to combined sewer overflows, sanitary sewer overflows, or bypass events under this section. (40 CFR § 122.41(I)(6)(i).)

- 5.5.2. 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/Permit. (40 CFR § 122.41(I)(6)(ii)(A).)
 - b. Any upset that exceeds any effluent limitation in this Order/Permit. (40 CFR § 122.41(I)(6)(ii)(B).)
- 5.5.3. The Los Angeles Water Board/USEPA Region 9 may waive the above required written report on a case-by-case basis if an oral report has been received within 24 hours. (40 CFR § 122.41(I)(6)(ii)(B).)

5.6. Planned Changes

The Permittee shall give notice to the Los Angeles Water/USEPA Region 9 as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required under this provision only when (40 CFR § 122.41(I)(1)):

- 5.6.1. 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 CFR § 122.41(I)(1)(i)); or
- 5.6.2. 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/Permit. (40 CFR § 122.41(I)(1)(ii).)
- 5.6.3. The alteration or addition results in a significant change in the Permittee'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 CFR § 122.41(I)(1)(iii).)

5.7. Anticipated Noncompliance

The Permittee shall give advance notice to the Los Angeles Water Board/USEPA Region 9 of any planned changes in the permitted facility or activity that may result in noncompliance with this Order's/Permit's requirements. (40 CFR § 122.41(I)(2).)

5.8. Other Noncompliance

The Permittee shall report all instances of noncompliance not reported under Standard Provisions – Reporting 5.3, 5.4, and 5.5 above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting 5.5 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 5.5 and the applicable required data in appendix A to 40 CFR part 127. As of December 21, 2025, all reports related to combined sewer overflows, sanitary sewer overflows or bypass events submitted in compliance with this section must be submitted electronically by the Discharger to the Los Angeles Water Board/USEPA Region 9 or initial recipient, as defined in 40 CFR § 127.2(b), in compliance with this section and 40 CFR § 3 (including, in all cases, subpart D to 3), 122.22, and 40 CFR § 127. (40 CFR § 122.41(I)(7).)

5.9. Other Information

When the Permittee 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 Los Angeles Water Board, State Water Board, or USEPA Region 9, the Permittee shall promptly submit such facts or information. (40 CFR § 122.41(I)(8).)

5.10. 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 CFR part 127 to the initial recipient defined in 40 CFR section 127.2(b). USEPA 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 CFR section 127.2(c)]. USEPA will update and maintain this listing. (40 CFR § 122.41(l)(9).)

6. STANDARD PROVISIONS - ENFORCEMENT

- 6.1. The Los Angeles Water Board and USEPA Region 9 are authorized to enforce the terms of this Order/Permit under several provisions of the Water Code, including, but not limited to, sections 13268, 13385, 13386, and 13387.
- 6.2. The CWA provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the CWA, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the CWA, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The CWA provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the CWA, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the CWA, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the CWA, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two years, or both. Any person who knowingly violates such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the CWA, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the CWA, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than\$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section

ATTACHMENT D
TENTATIVE ORDER: 8/30/2022

- 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions (40 CFR § 122.41(a)(2); CWC section 13385 and 13387).
- 6.3. Any person may be assessed an administrative penalty by the Administrator of USEPA, or an administrative civil liability by the Los Angeles Water Board, or State Water Board for violating section 301, 302, 306, 307, 308, 318 or 405 of the CWA, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the CWA. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000. (40 CFR § 122.41(a)(3).)
- 6.4. The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four years, or both. (40 CFR § 122.41(j)(5).)
- 6.5. The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both. (40 CFR § 122.41(k)(2).)

7. ADDITIONAL PROVISIONS - NOTIFICATION LEVELS

7.1. Publicly Owned Treatment Works (POTWs)

All POTWs shall provide adequate notice to the Los Angeles Water Board and USEPA of the following (40 CFR § 122.42(b)):

- a. Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to sections 301 or 306 of the CWA if it were directly discharging those pollutants (40 CFR § 122.42(b)(1)); and
- b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of adoption of the Order. (40 CFR § 122.42(b)(2).)
- c. Adequate notice shall include information on the quality and quantity of effluent introduced into the POTW as well as any anticipated impact of the

ATTACHMENT D
TENTATIVE ORDER: 8/30/2022

CITY OF LOS ANGELES HYPERION WATER RECLAMATION PLANT

ORDER XX-XXXX-XXX NPDES NO. CA0109991

change on the quantity or quality of effluent to be discharged from the POTW. (40 CFR § 122.42(b)(3).)

ATTACHMENT D TENTATIVE ORDER: 8/30/2022

ATTACHMENT E- MONITORING AND REPORTING PROGRAM TABLE OF CONTENTS

1.	GENERAL MONITORING PROVISIONS	E-3
2.	MONITORING LOCATIONS	E-9
3.	INFLUENT MONITORING REQUIREMENTS	E-23
	3.1. Monitoring Location INF-001, INF-002, INF-003, INF-004 and INF-005	E-23
4.	EFFLUENT MONITORING REQUIREMENTS	
	4.1. Monitoring Location at EFF-001 and EFF-002	E-27
	4.2. Mass Emission Benchmarks	
	4.3. Flame Retardant and Per-and Polyfluoroalkyl Substances (PFAS) Monitorin 33	
	4.4. Nutrients Monitoring and Estimating Nitrogen Load to Santa Monica Bay	
5.	WHOLE EFFLUENT TOXICITY (WET) TESTING REQUIREMENTS	
	5.1. Discharge In-stream Waste Concentration (IWC) for Chronic Toxicity	
	5.2. Sample Volume and Holding Time	
	5.3. Chronic Marine Species and Test Methods	
	5.4. Species Sensitivity Screening	
	5.5. Quality Assurance and Additional Requirements	E-38
	5.6. Preparation of an Initial Investigation Toxicity Reduction Evaluation (TRE) V	Vork E-40
	5.7. Accelerated Monitoring Schedule for Maximum Daily Single Result: "Fail."	
	5.8. Toxicity Reduction Evaluation (TRE) Process	
	5.9. Reporting	
	5.10. Ammonia Removal	
	5.11. Chlorine Removal	
6	LAND DISCHARGE MONITORING REQUIREMENTS (NOT APPLICABLE)	
	RECYCLING MONITORING REQUIREMENTS (NOT APPLICABLE)	
	RECEIVING WATER MONITORING REQUIREMENTS	
Ο.	8.1. Inshore Water Quality Monitoring	
	8.2. Offshore Water Quality Monitoring	
	8.3. Benthic Infauna and Sediment Chemistry Monitoring	
	8.4. Fish and Macroinvertebrate (Trawl and Rig Fishing) Monitoring	
	8.5. Kelp Bed Monitoring	
a	OTHER MONITORING REQUIREMENTS	
٥.		E-60
	9.2. Stormwater Overflow/Spill Reporting	
	9.3. Biosolids and Sludge Management	
	9.4. Monitoring of Volumetric Data for Wastewater and Recycled Water	
10	D. REPORTING REQUIREMENTS	
, (10.1. General Monitoring and Reporting Requirements	F_62
	10.2. Self-Monitoring Reports (SMRs)	F_6/
	10.3. Discharge Monitoring Reports (DMRs)	
	10.4. Other Reports	
	10.7. Outor 1.0p01.0	00

CITY OF LOS ANGELES HYPERION WATER RECLAMATION PLANT

ORDER XX-XXXX-XXX NPDES NO. CA0109991

TABLE OF TABLES

TABLE E- 1. MONITORING STATION LOCATIONS	
TABLE E- 2. RECEIVING WATER QUALITY MONITORING STATIONS	E-11
TABLE E- 3. BENTHIC INFAUNA AND SEDIMENT CHEMISTRY	E-14
TABLE E- 4. TRAWL MONITORING STATIONS	
TABLE E- 5. LOCAL BIOACCUMULATION SAMPLING ZONES	E-16
TABLE E- 6. INFLUENT MONITORING	E-23
TABLE E- 7. EFFLUENT MONITORING	
TABLE E- 8. FLAME RETARDANTS AND PFAS MONITORING	E-33
TABLE E- 9. USEPA TEST METHODS AND TEST ACCEPTABILITY CRITERIA.	E-39
TABLE E- 10. INSHORE MICROBIOLOGICAL MONITORING REQUIREMENTS	E-45
TABLE E- 11. OFFSHORE WATER QUALITY MONITORING REQUIREMENTS.	E-46
TABLE E- 12. ADDITIONAL OFFSHORE WATER QUALITY MONITORING	
REQUIREMENTS-1-MILE OUTFALL (DISCHARGE POINT 001)	E-47
TABLE E- 13. BENTHIC INFAUNA AND SEDIMENT CHEMISTRY MONITORING	;
REQUIREMENTS	
TABLE E- 14. LOCAL BIOACCUMULATION MONITORING REQUIREMENTS	
TABLE E- 15. LOCAL SEAFOOD SAFETY MONITORING REQUIREMENTS	
TABLE E- 16. MONITORING PERIODS AND REPORTING SCHEDULE	E-65
TABLE OF FIGURES	
FIGURE E- 1. INSHORE WATER QUALITY STATION LOCATIONS	E-17
FIGURE E- 2. OFFSHORE WATER QUALITY STATION LOCATIONS	
FIGURE E- 3. OFFSHORE BENTHIC SEDIMENTS AND MACROFAUNA LOCAT	
FOR FIXED & SET A RANDOM STATIONS	
FIGURE E- 4. OFFSHORE BENTHIC SEDIMENTS AND MACROFAUNA LOCAT	
FOR FIXED & SET B RANDOM STATIONS	E-20
FIGURE E- 5. TRAWL FIXED & SET A RANDOM STATIONS	
FIGURE E- 6. TRAWL FIXED & SET B RANDOM STATIONS	
FIGURE E- 7. LOCAL SEAFOOD SURVEY ZONES AS DEFINED BY SMBRC	
SEAFOOD TISSUE MONITORING DESIGN	E-23

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 CFR) require that all National Pollutant Discharge Elimination System (NPDES) permits specify monitoring and reporting requirements. Water Code section 13383 also authorizes the Los Angeles Water Board to establish monitoring, reporting, and recordkeeping requirements. This MRP establishes monitoring, reporting, and recordkeeping requirements that implement federal and California laws and/or regulations.

1. GENERAL MONITORING PROVISIONS

- 1.1. All samples shall be representative of the waste discharge under conditions of peak load. Results of monthly, quarterly, semiannual, and annual analyses shall be reported by the due date specified in Table E-16. The Discharger shall not collect quarterly samples in two consecutive months and shall collect semiannual samples at least three months apart. Should there be instances when monitoring could not be performed, the permittee must notify the Los Angeles Water Board and USEPA, state the reason why monitoring could not be conducted, and obtain approval from the Executive Officer and/or Water Division Director for an alternate schedule.
 - 1.2. Pollutants, except those analyzed in the field, shall be analyzed using the analytical methods described in 40 CFR § 136.3, 136.4, and 136.5; or where no methods are specified for a given pollutant, by methods approved by the Los Angeles Water Board or the State Water Resources Control Board (State Water Board).
 - 1.3. Laboratory Certification. Laboratories analyzing effluent samples and receiving water samples shall be certified by the State Water Resources Control Board, Division of Drinking Water (DDW) Environmental Laboratory Accreditation Program (ELAP) or approved by the Los Angeles Water Board Executive Officer, in accordance with the provision of Water Code section 13176, and must include quality assurance/quality control (QA/QC) data in their reports. A copy of the laboratory certification shall be provided in the Annual Report due to the Los Angeles Water Board and USEPA Region 9 each time a new certification and/or renewal of the certification is obtained.
 - 1.4. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR § 136.3. All QA/QC analyses must be run on the same dates that samples are actually analyzed. The Permittee shall retain the QA/QC documentation in its files and make available for inspection and/or submit this documentation when requested by the Los Angeles Water Board and/or USEPA Region 9. Proper chain of custody procedures must be followed, and a copy of this documentation shall be submitted with the monthly report.
 - 1.5. The Permittee shall ensure all monitoring instruments are calibrated and maintained to ensure accuracy of measurements.

- 1.6. For any analyses performed for which no procedure is specified in the USEPA guidelines, or in the MRP, the constituent or parameter analyzed, and method or procedure used must be specified in the monitoring report.
- 1.7. Each monitoring report must affirm in writing that "all analyses were conducted at a laboratory certified for such analyses under the ELAP or approved by the Executive Officer and in accordance with current USEPA guideline procedures or as specified in this monitoring and reporting program."
- 1.8. The monitoring report shall specify the USEPA analytical method used, the Method Detection Limit (MDL), and the Reporting Level (RL) [the applicable Minimum Level (ML) or Reported Minimum Level (RML)] for each pollutant. The MLs are those published by the State Water Board in Appendix II of the 2019 Ocean Plan. The ML represents the lowest quantifiable concentration in a sample based on the proper application of all method-based analytical procedures and the absence of any matrix interference. When all specific analytical steps are followed and after appropriate application of method specific factors, the ML also represents the lowest standard in the calibration curve for that specific analytical technique. When there is deviation from the analytical method for dilution or concentration of samples, other factors are applied to the ML depending on the sample preparation. The resulting value is the RML.
- 1.9. The Permittee shall select the analytical method that provides an ML lower than the effluent limitation or performance goal established for a given parameter or where no such requirement exists, the lowest applicable water quality objective in the Ocean Plan. If the effluent limitation, performance goal, or the lowest applicable water quality objective is lower than all the MLs in Appendix II of the 2019 Ocean Plan, the Permittee must select the method with the lowest ML for compliance purposes. The Permittee shall include in the annual summary reports a list of the analytical methods and MLs employed for each test.
- 1.10. The Permittee shall instruct its laboratories to establish calibration standards so that the ML (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lower calibration standard. At no time is the Permittee to use analytical data derived from extrapolation beyond the lowest point of the calibration curve.
- 1.11. The Permittee shall develop and maintain a record of all spills or bypasses of raw or partially treated sewage from its collection system or treatment plant according to the requirements in the Waste Discharge Requirements (WDRs) of this Order/Permit. This record shall be made available to the Los Angeles Water Board and USEPA Region 9 upon request and a spill/bypass summary shall be included in the annual summary report.
- 1.12. If the Permittee samples and performs analyses (other than for process/operational control, startup, research, or equipment testing) on any influent, effluent, or receiving water constituent more frequently than required by this Order/Permit using approved analytical methods, the results of those

- analyses shall be included in the monitoring report. These results shall be reflected in the calculation of the average (or median) used in demonstrating compliance with limitations set forth in this Order/Permit.
- 1.13. For all bacterial analyses, sample dilutions should be performed so the expected range of values is bracketed (for example, with multiple tube fermentation method or membrane filtration method, 2 to 16,000 per 100 mL for total and fecal coliforms, at a minimum; and 1 to 1000 per 100 mL for *Enterococcus*). The detection methods used for each analysis shall be reported with the results of the analyses.
 - a. Detection methods used for coliforms (total and fecal) shall be those presented in Table 1A of 40 CFR § 136, unless alternate methods have been approved in advance by the USEPA pursuant to 40 CFR § 136.
 - b. Detection methods for *E. coli* and *Enterococcus* shall be those presented in Table 1A of 40 CFR § 136 or in the USEPA publication EPA 600/4-85/076, *Test Methods for* Escherichia coli *and* Enterococci *in Water by Membrane Filter Procedure*, or any improved method determined by the Los Angeles Water Board and USEPA to be appropriate.
- 1.14. All receiving water monitoring conducted in compliance with the MRP must be comparable with the Quality Assurance requirements of the Surface Water Ambient Monitoring Program (SWAMP).
- 1.15. NPDES compliance monitoring focuses on the effects of a specific point source discharge. Generally, it is not designed to assess impacts from other sources of pollution (e.g., nonpoint source runoff, aerial fallout) or to evaluate the current status of important ecological resources in the water body. The scale of existing compliance monitoring programs does not match the spatial and, to some extent, temporal boundaries of the important physical and biological processes in the ocean. In addition, the spatial coverage provided by compliance monitoring programs is less than ten percent of the nearshore ocean environment. Better technical information is needed about status and trends in ocean waters to guide management and regulatory decisions, to verify the effectiveness of existing programs, and to shape policy on marine environmental protection.
- 1.16. The Los Angeles Water Board and USEPA Region 9, working with other groups, have developed a comprehensive basis for effluent and receiving water monitoring appropriate to large publicly owned treatment works (POTWs) discharging to waters of the Southern California Bight. This effort has culminated in the publication by the Southern California Coastal Water Research Project (SCCWRP) of the Model Monitoring Program guidance document (Schiff, K.C., J.S. Brown and S.B. Weisberg. 2002. Model Monitoring Program for Large Ocean Dischargers in Southern California. SCCWRP Tech. Rep. #357. SCCWRP, Westminster, CA. 101 pp.). This guidance provides the principles, framework and recommended design for effluent and receiving water

- monitoring elements that have guided development of the monitoring program described below.
- 1.17. In July 2000, the Santa Monica Bay Restoration Project (SMBRP) published An Assessment of the Compliance Monitoring System in Santa Monica Bay to set forth recommendations and priorities for compliance monitoring in Santa Monica Bay. This report reasoned that a reduced level of receiving water monitoring is justified for large POTWs discharging to Santa Monica Bay due to improvements in effluent quality and associated decreases in receiving water impacts. Like the Model Monitoring Program developed by SCCWRP, the SMBRP recommendations are focused on providing answers to management questions and allowing a reduction in POTW receiving water monitoring where discharge effects are well understood. The monitoring plan set forth here has been guided by the SMBRP recommendations.
- 1.18. The conceptual framework for the Model Monitoring Program has three components that comprise a range of spatial and temporal scales: (1) core monitoring; (2) regional monitoring; and (3) special studies.
 - 1.18.1. Core monitoring is local in nature and focused on monitoring trends in quality and effects of the point source discharge. This includes effluent monitoring as well as some aspects of receiving water monitoring. In the monitoring program described below, these core components are typically referred to as local monitoring.
 - 1.18.2. Regional monitoring is focused on questions that are best answered by a region-wide approach that incorporates coordinated survey design and sampling techniques. The major objective of regional monitoring is to collect information required to assess how safe it is to swim in the ocean, how safe it is to eat seafood from the ocean, and whether the marine ecosystem is being protected. Key components of regional monitoring include elements to address pollutant mass emission estimations, public health concerns, monitoring of trends in natural resources, assessment of regional impacts from all contaminant sources, and protection of beneficial uses. The final design of regional monitoring programs is developed by means of steering committees and technical committees comprised of participating agencies and organizations and is not specified in this Order/Permit. Instead, for each regional component, the degree and nature of participation of the Permittee is specified. For this Order/Permit, these levels of effort are based upon past participation of the Permittee in regional monitoring programs.

The Permittee shall participate in regional monitoring activities coordinated by SCCWRP or any other appropriate agency approved by the Los Angeles Water Board and USEPA Region 9. The procedures and timelines for the Los Angeles Water Board and USEPA Region 9 approval shall be the same as detailed for special studies, below.

1.18.3. Special studies are focused on refined questions regarding specific effects or development of monitoring techniques and are anticipated to be of short duration and/or small scale, although multiyear studies also may be needed. Questions regarding effluent or receiving water quality, discharge impacts, ocean processes in the area of the discharge, or development of techniques for monitoring the same, arising out of the results of core or regional monitoring, may be pursued through special studies. These studies are by nature ad hoc and cannot be typically anticipated in advance of the five-year permit cycle.

The Permittee, the Los Angeles Water Board and USEPA Region 9 shall consult annually to determine the need for special studies. Each year, the Permittee shall submit proposals for any proposed special studies to the Los Angeles Water Board and USEPA Region 9 by December 31st for the following year's monitoring effort (July through June). The following year, detailed scopes of work for proposals, including reporting schedules, shall be presented by the Discharger at a Spring Los Angeles Water Board meeting, to obtain the Los Angeles Water Board approval and to inform the public. After consultation with USEPA Region 9 and upon approval by the Los Angeles Water Board, the Permittee shall implement its special study or studies.

1.19. Every five years SCCWRP coordinates regional monitoring within the Southern California Bight and compiles monitoring data collected by the dischargers and other participating entities. In 2018, the sixth regional monitoring program (Bight '18) occurred primarily during the summer of 2018. The next (seventh) regional monitoring program (Bight '23) is expected to take place during 2023. While participation in regional monitoring programs is required under this Order/Permit, revisions to the Permittee's monitoring program at the direction of the Los Angeles Water Board and USEPA Region 9 may be necessary to accomplish the goals of regional monitoring or to allow the performance of special studies to investigate regional or site-specific water issues of concern. These revisions may include a reduction or increase in the number of parameters to be monitored, the frequency of monitoring, or the number and size of samples to be collected with the exception of effluent monitoring. Such changes may be authorized by the Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director upon written notification to the Permittee. Proposed changes to effluent monitoring frequency shall not be considered in relation to these regional monitoring requirements.

Permittee participation in regional monitoring programs is required as a condition of this Order/Permit. The Permittee shall complete collection and analysis of samples in accordance with the schedule established by the Steering Committee directing the Bight-wide regional monitoring surveys. The level of participation shall be similar to that provided by the Permittee in

previous regional surveys conducted in 1994, 1998, 2003, 2008, 2013, and 2018.

- 1.20. Bay Comprehensive Monitoring Program. The Santa Monica Bay National Estuary Program (SMBNEP) updated the comprehensive monitoring program for Santa Monica Bay in April 2021. This monitoring program culminates efforts that began in the mid-1990s with the identification of key management questions and monitoring priorities. It lays out new monitoring designs for seven major habitats within the Bay:
 - a. Pelagic Ecosystem;
 - b. Soft Bottom Ecosystem;
 - c. Rocky Reefs Bottom Ecosystem;
 - d. Rocky Intertidal Ecosystems;
 - e. Sandy Shores Ecosystems;
 - f. Coastal Wetlands Ecosystem; and
 - g. Fresh/Riparian Ecosystem.

Design for each habitat includes a core motivating question, several related objectives, specific monitoring approaches, indicators, data products, and sampling designs detailing number and locations of stations, sampling frequency, and measurements to be collected.

The Bay Monitoring Program also includes an implementation plan that includes a detailed schedule, cost estimates for individual Program elements, and recommendations on the Program's management structure, including data management and assessment strategies. The Bay Monitoring Program is designed to be implemented in part through modifications to existing receiving water monitoring programs for major NPDES dischargers into coastal ocean waters. Some elements of this monitoring program already have been implemented, for example, through establishment of periodic Bight-wide regional monitoring surveys (Southern California Bight Pilot Project '94, Bight '98, Bight '03, Bight '08, Bight '13, and Bight '18) and kelp bed monitoring. However, other elements of the program have yet to be implemented.

USEPA Region 9, the Los Angeles Water Board, SMBNEP, the Permittee, affected NPDES permit holders, and other interested agencies and stakeholders will develop plans to collaboratively fund these elements of the program and determine each party's level of participation. It is anticipated that funding for the program from the City of Los Angeles will be supplied through a combination of modifications to the Hyperion Water Reclamation Plant's Monitoring and Reporting Program, including redirection of existing effort and new monitoring efforts relevant to the Hyperion Water Reclamation Plant's discharge. When necessary, redirection of existing monitoring requirements and/or the imposition of additional monitoring efforts conducted under the terms

of this Order/Permit may subject to a public hearing before the Los Angeles Water Board and public notice by USEPA Region 9. This Order/Permit may be reopened and/or modified, following the necessary administrative procedures considering the nature and scope of the modifications, by the Los Angeles Water Board and USEPA Region 9 to incorporate conforming monitoring requirements and schedule dates for implementation of the Comprehensive Monitoring Program for Santa Monica Bay (SMBNEP, April 2021).

By March 31 of each year, the Permittee shall provide an informational report summarizing to date its contributing activities towards coordinated implementation of the Comprehensive Monitoring Program for Santa Monica Bay (SMBNEP, April 2021) to the Santa Monica Bay Restoration Commission (SMBRC). The SMBRC will update the Los Angeles Water Board on the activities conducted by the Permittee during the previous year at a subsequent regular Board meeting.

- 1.21. This monitoring program for Hyperion WRP is comprised of requirements to demonstrate compliance with the conditions of the NPDES permit, ensure compliance with State water quality standards, and mandate participation in regional monitoring and/or areawide studies.
- 1.22. The Discharger shall ensure that the results of the Discharge Monitoring Report-Quality Assurance (DMR-QA) Study or the most recent Water Pollution Performance Evaluation Study are submitted annually to the State Water Board at the following address:

State Water Resources Control Board Quality Assurance Program Officer Office of Information Management and Analysis 1001 I Street, Sacramento, CA 95814

2. 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/Permit. The North latitude and West longitude information in Table E-1, Table E-2, Table E-3, and Table E-4 is approximate for administrative purposes.

Table E- 1. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
	INF-001	The North Outfall Relief Sewer influent sampling station shall be established at the point of inflow to the sewage treatment plant and shall be located upstream of any in-plant return flows and where representative samples of the influent can be obtained. (33.93061°N, 118.43317°W)
	INF-002	The North Central Outfall Sewer influent sampling station shall be established at the point of inflow to the sewage treatment plant and shall be located upstream of any in-plant return flows and where representative samples of the influent can be obtained. (33.9306°N, 118.43326°W)
	INF-003	The Central Outfall Sewer influent sampling station shall be established at the point of inflow to the sewage treatment plant and shall be located upstream of any in-plant return flows and where representative samples of the influent can be obtained. (33.93033°N, 118.43353°W)
	INF-004	The North Outfall Sewer influent sampling station shall be established at the point of inflow to the sewage treatment plant and shall be located upstream of any in-plant return flows and where representative samples of the influent can be obtained. (33.92756°N, 118.43317°W)
	INF-005	The Coastal Interceptor Sewer influent sampling station shall be established at the point of inflow to the sewage treatment plant and shall be located upstream of any in-plant return flows and where representative samples of the influent can be obtained. (33.92746°N, 118.43318°W)

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
001	EFF-001	This effluent sampling station shall be located downstream of any in-plant return flows but before entering the discharge tunnel where representative samples of the effluent discharged through Discharge Point 001 (1-Mile Outfall) can be obtained. (33.92417°N, 118.4314°W)
002	EFF-002	This effluent sampling station shall be located downstream of any in-plant return flows but before entering the discharge tunnel where representative samples of the effluent discharged through Discharge Point 002 (5-Mile Outfall) can be obtained. (33.92527°N, 118.43195°W)

Table E- 2. Receiving Water Quality Monitoring Stations

Station	Latitude	Longitude	Notes
RW-IS-01	33.997217° N	118.801117° W	a, c
RW-IS-02	34.015833° N	118.782783° W	a, c
RW-IS-03	34.028617° N	118.735283° W	a, c
RW-IS-04	34.030550° N	118.673050° W	a, c
RW-IS-05	34.034167° N	118.580550° W	a, c
RW-IS-06	34.003350° N	118.498717° W	a, c
RW-IS-07	33.975833° N	118.471950° W	a, c
RW-IS-08	33.959450° N	118.459717° W	a, c
RW-IS-09	33.948333° N	118.452217° W	a, c
RW-IS-10	33.938050° N	118.446950° W	a, c
RW-IS-11	33.846633° N	118.398633° W	a, c
RW-OS-3201	33.854167° N	118.406117° W	d
RW-OS-3202	33.848617° N	118.417783° W	d
RW-OS-3203	33.845283° N	118.426383° W	d
RW-OS-3204	33.836950° N	118.440550° W	b, d
RW-OS-3205	33.823883° N	118.463617° W	b, d
RW-OS-3206	33.811100° N	118.492783° W	d
RW-OS-3301	33.893050° N	118.427217° W	d
RW-OS-3302	33.889167° N	118.436383° W	d
RW-OS-3303	33.885550° N	118.446667° W	d
RW-OS-3304	33.879450° N	118.456950° W	b, d
RW-OS-3305	33.868333° N	118.493333° W	b, d
RW-OS-3306	33.851117° N	118.527217° W	b, d
RW-OS-3401	33.902500° N	118.432500° W	d

ATTACHMENT E – MRP TENTATIVE ORDER: 8/30/2022

Station	Latitude	Longitude	Notes
RW-OS-3402	33.900000° N	118.447217° W	d
RW-OS-3403	33.901100° N	118.460000° W	d
RW-OS-3404	33.896933° N	118.468600° W	b, d
RW-OS-3405	33.887217° N	118.506383° W	b, d
RW-OS-3406	33.879167° N	118.535550° W	b, d
RW-OS-3501	33.931383° N	118.448050° W	d
RW-OS-3502	33.927767° N	118.460267° W	d
RW-OS-3503	33.923883° N	118.472500° W	d
RW-OS-3504	33.916667° N	118.494167° W	b, d
RW-OS-3505	33.909167° N	118.525267° W	b, d
RW-OS-3505B	33.908800° N	118.523200° W	b, d
RW-OS-3506	33.900000° N	118.549717° W	b, d
RW-OS-3601	33.959733° N	118.466250° W	d
RW-OS-3602	33.955550° N	118.477767° W	d
RW-OS-3603	33.949433° N	118.490267° W	d
RW-OS-3604	33.940267° N	118.509767° W	b, d
RW-OS-3605	33.927767° N	118.535550° W	b, d
RW-OS-3606	33.916667° N	118.558333° W	b, d
RW-OS-3701	33.986100° N	118.486100° W	d
RW-OS-3702	33.980000° N	118.500000° W	d
RW-OS-3703	33.974167° N	118.510000° W	d
RW-OS-3704	33.966667° N	118.525550° W	b, d
RW-OS-3705	33.953600° N	118.553600° W	b, d
RW-OS-3706	33.942500° N	118.575000° W	b, d
RW-OS-3801	34.033333° N	118.583333° W	d
RW-OS-3802	34.025833° N	118.587500° W	d
RW-OS-3803	34.005833° N	118.597217° W	d
RW-OS-3804	33.993333° N	118.604167° W	b, d
RW-OS-3805	33.972217° N	118.614167° W	b, d
RW-OS-3806	33.956100° N	118.623600° W	d
RW-OS-3901	34.027500° N	118.716667° W	d
RW-OS-3902	34.019433° N	118.716667° W	d
RW-OS-3903	34.011100° N	118.716667° W	d
RW-OS-3904	33.997500° N	118.716667° W	b, d
RW-OS-3905	33.960267° N	118.716667° W	d
RW-OS-3906	33.942767° N	118.716667° W	d
RW-OS-4001	33.995267° N	118.805267° W	d
RW-OS-4002	33.988333° N	118.805267° W	d
RW-OS-4003	33.980550° N	118.805267° W	b, d
RW-OS-4004	33.958333° N	118.805267° W	d
RW-OS-4005	33.928050° N	118.805267° W	d
RW-OS-4006	33.912500° N	118.805267° W	d

Footnotes for Table E-2:

- a. Shall be sampled at a distance of 1,000 feet from the shoreline or at the 30-foot contour, whichever is further from shore (except that station IS-11 is located at King Harbor in Redondo Beach).
- b. Discrete stations of the Central Bight Cooperative Water Quality Survey.
- c. In-shore water quality monitoring stations.
- d. Off-shore water quality monitoring stations.

End of footnotes for Table E-2

Table E- 3. Benthic Infauna and Sediment Chemistry

Station	Latitude	Longitude	Notes
RW-A-1N	34.002233° N	118.516900° W	С
RW-A-2	33.918617° N	118.448050° W	С
RW-A-6	33.924800° N	118.452916° W	С
RW-B-1	34.006950° N	118.715550° W	С
RW-B-3	34.005833° N	118.597217° W	С
RW-B-5	33.966383° N	118.525550° W	С
RW-B-6A	33.935033° N	118. 504733° W	С
RW-B-7	33.921383° N	118.491667° W	С
RW-B-8	33.896667° N	118.474167° W	С
RW-B-10	33.841383° N	118.415667° W	С
RW-C-1	33.997217° N	118.717500° W	a, c
RW-C-3	33.989717° N	118.600550° W	b, c
RW-C-5A	33. 956450° N	118. 553817° W	C
RW-C-6	33.928050° N	118.534717° W	a, c
RW-C-7A	33. 894900° N	118. 528783° W	b, c
RW-C-8	33.879167° N	118.523617° W	b, c
RW-C9C	33. 871400 ° N	118. 469167 ° W	b, c
RW-D-1	33.911667° N	118.550000° W	b, c
RW-E-1	33.984283° N	118.714450° W	C
RW-E-3	33.971950° N	118.614450° W	С
RW-E-6	33.928333° N	118.556950° W	a, c
RW-E-10	33.823417° N	118.464667° W	Ċ
RW-Z-1	33.914717° N	118.525000° W	С
RW-Z-2	33.907500° N	118.524450° W	a, c
RW-NA-1	33.889933° N	118.519833° W	ď
RW-NA-2	33.900900° N	118.515117° W	d
RW-NA-3	33.903317° N	118.533750° W	d
RW-NA-4	33.917683° N	118.506333° W	d
RW-NA-5	33.919450° N	118.518567° W	d
RW-NA-6	33.934017° N	118.527267° W	d
RW-FA-7	33.873283° N	118.497283° W	d
RW-FA-8	33.877917° N	118.544167° W	d
RW-FA-9	33.883017° N	118.487717° W	d
RW-FA-10A	33. 894517° N	118. 498033° W	d
RW-FA-11	33.893233° N	118.501750° W	d
RW-FA-12	33.897833° N	118.490633° W	d
RW-FA-13	33.906633° N	118.568833 ° W	d
RW-FA-14	33.914567° N	118.476700 ° W	d
RW-FA-15	33.917883° N	118.556450 ° W	d
RW-FA-16	33.932767° N	118.500833 ° W	d
RW-FA-17	33.934767° N	118.553467 ° W	d

ATTACHMENT E – MRP TENTATIVE ORDER: 8/30/2022

Station	Latitude	Longitude	Notes
RW-FA-18A	33. 930217° N	118. 481733 ° W	d
RW-FA-19A	33. 932367° N	118. 565717 ° W	d
RW-FA-20	33.952617° N	118.524500° W	d
RW-NB-1A	33. 904633° N	118. 535733° W	е
RW-NB-2	33.908167° N	118.501750° W	е
RW-NB-3	33.914717° N	118.534283° W	е
RW-NB-4	33.915083° N	118.509900° W	е
RW-NB-5	33.921017° N	118.549683° W	е
RW-NB-6	33.927000° N	118.498133° W	е
RW-NB-7	33.927833° N	118.531450° W	е
RW-NB-8	33.936867° N	118.513767° W	е
RW-FB-9	33.874883° N	118.518417° W	е
RW-FB-10	33.883617° N	118.497567° W	е
RW-FB-11	33.884783° N	118.553183° W	е
RW-FB-12	33.887483° N	118.512650° W	е
RW-FB-13	33.888033° N	118.483583° W	е
RW-FB-14	33.893600° N	118.565000° W	е
RW-FB-15	33.903233° N	118.480683° W	е
RW-FB-16	33.918367° N	118.489583° W	е
RW-FB-17	33.937000° N	118.563750° W	е
RW-FB-18A	33. 953500° N	118. 496967° W	е
RW-FB-19A	33. 928683° N	118. 590067° W	е
RW-FB-20A	33. 932583° N	118. 539683° W	е

Footnotes for Table E-3:

- a. Monitored annually for dissolved sulfides, acid volatile sulfides, ammonia nitrogen, organic nitrogen, selected priority pollutants, acute and chronic toxicity, and compounds on the 303(d) list for offshore Santa Monica Bay.
- b. Monitored annually for selected priority pollutants, acute and chronic toxicity, and compounds on the 303(d) list for offshore Santa Monica Bay.
- c. Fixed grid stations.
- d. Random Station Set A (previously named Year 1 Random Stations).
- e. Random Station Set B (previously named Year 2 Random Stations).

End of footnotes for Table E-3.

Table E- 4. Trawl Monitoring Stations

Station	Latitude	Longitude	Notes
RW-C-1	33.997217° N	118.717500° W	а
RW-C-3	33.989717° N	118.600550° W	а
RW-C-6T	33. 902094° N	118. 532216° W	а
RW-D-1T	33.913417° N	118.536917° W	а
RW-Z-2	33.907500° N	118.524450° W	а

Station	Latitude	Longitude	Notes
RW-Z-3	33.900083° N	118.506583° W	а
RW-Z-4	33.921383° N	118.509650° W	а
RW-1A	33.914567° N	118.476700 ° W	b
RW-2AA	33. 870000° N	118. 507767 ° W	b
RW-3AT	33. 871400° N	118. 469167° W	b
RW-1BT	33. 928683° N	118. 590067° W	С
RW-2BT	33. 953500° N	118. 496967° W	С
RW-3BT	33. 868967° N	118. 495933° W	С

Footnotes for Table E-4:

- a. Fixed grid stations.
- b. Random Station Set A (previously named Year 1 Random Stations).
- c. Random Station Set B (Previously named Year 2 Random Stations).

End of footnotes for Table E-4.

Table E- 5. Local Bioaccumulation Sampling Zones

Monitoring Location Name	Monitoring Location Description
RW-BA-Z4	Zone 4 (south Santa Monica Bay) - Inshore of the 150-meter depth contour and between a line bearing 235° magnetic off the south end of the Redondo Beach Pier and a line bearing 240° magnetic off the south entrance of Marina del Rey. This zone includes the Redondo Pier, the north rim of the Redondo Canyon, Short Bank, and the 1, 5, and 7-mile Hyperion outfalls.
RW-BA-Z5	Zone 5 (north Santa Monica Bay) - Inshore of the 150-meter depth contour and between a line bearing 240° magnetic off the south entrance of Marina del Rey and a line bearing 180° magnetic off Point Dume. This zone includes the Santa Monica beaches, Venice and Santa Monica Piers, Paradise Cove and most of Point Dume Canyon.
RW-BA-NF	Nearfield - A 2-km radius around the 5-Mile Outfall (Discharge Point 002) or a 2-km radius from every port on both legs of the diffuser. The biennial assessment report shall indicate the radius used and rationale for its use.

Malibu **Point Dume** OIS05 o IS04 **IS03** Santa Monica 34°00'N-IS09 IS10 Hyperion Water **Reclamation Plant** 33°55'N-Santa Monica Canyon 33°50'N-Redondo Canyon **Receiving Water Quality Monitoring Stations** In-shore Stations Palos **Verdes** 33°45'N-118°50'W 118°45'W 118°40'W 118°35'W 118°30'W 118°25'W 118°20'W

Figure E- 1. Inshore Water Quality Station Locations

Malibu **Point Dume** 3801 〇 3802 〇 ○3901 ○3902 Santa Monica ●3903 3803 🔾 34°00'N-○ 3904 ♦ 4001♦ 4002♦ 4003 3804 3805 🔾 ●3905 ●4004 3806 € ●3906 **Hyperion Water** ● 4005 33°55'N-Santa Monica Canyon **Reclamation Plant** ●4006 33°50'N-3505 o 3505B Redondo Canyon Palos **Receiving Water Quality Monitoring Stations** Verdes • Off-shore Water Quality Monitoring Stations 33°45'N-118°45'W 118°50'W 118°35'W 118°40'W 118°30'W 118°25'W 118°20'W

Figure E- 2. Offshore Water Quality Station Locations

Figure E- 3. Offshore Benthic Sediments and Macrofauna Locations for Fixed & Set A Random Stations

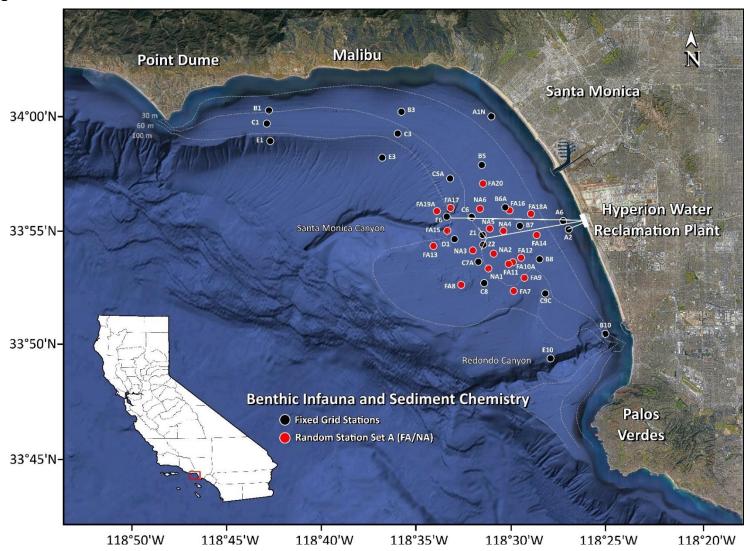
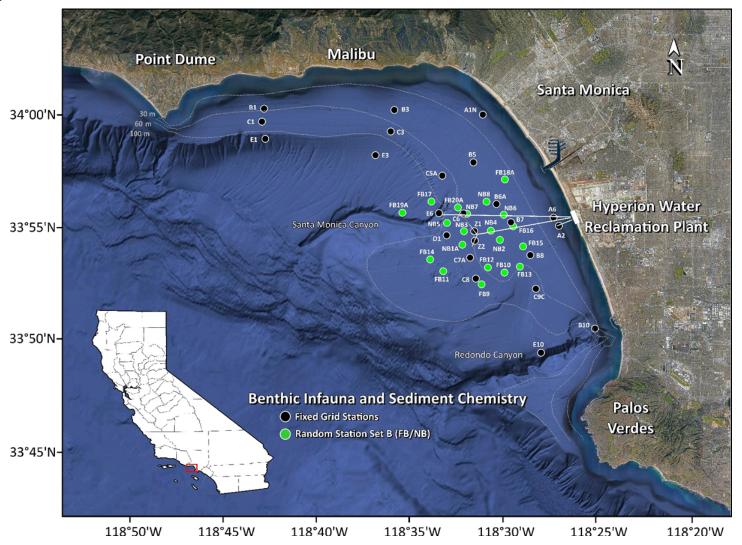


Figure E- 4. Offshore Benthic Sediments and Macrofauna Locations for Fixed & Set B Random Stations



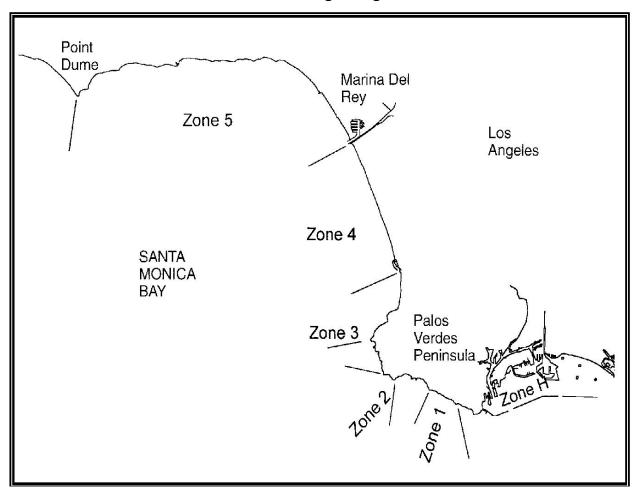
Malibu **Point Dume** Santa Monica 34°00'N-C1 🔵 C3 🔵 Hyperion Water Reclamation Plant 33°55'N-Santa Monica Canyon 3AT 2AA 33°50'N-Redondo Canyon **Trawl Monitoring Stations** Palos Fixed Grid Stations Random Station Set A **Verdes** 33°45'N-118°50'W 118°45'W 118°40'W 118°35'W 118°30'W 118°25'W 118°20'W

Figure E- 5. Trawl Fixed & Set A Random Stations

Malibu **Point Dume** Santa Monica 34°00'N-C1 🔾 C3 🔘 2BTO Hyperion Water 1BT O **Z4 Reclamation Plant** 33°55'N-Santa Monica Canyon D1T O Z2 C6T 3BT_ 33°50'N-Redondo Canyon **Trawl Monitoring Stations** Palos Fixed Grid Stations O Random Station Set B Verdes 33°45'N-118°50'W 118°45'W 118°40'W 118°35'W 118°30'W 118°20'W 118°25'W

Figure E- 6. Trawl Fixed & Set B Random Stations

Figure E- 7. Local Seafood Survey Zones as Defined by SMBRC Seafood Tissue Monitoring Design



3. INFLUENT MONITORING REQUIREMENTS

Influent monitoring is required to determine compliance with NPDES permit conditions, to assess treatment plant performance, and to assess effectiveness of the Pretreatment Program.

3.1. Monitoring Location INF-001, INF-002, INF-003, INF-004 and INF-005

The Discharger shall monitor influent to the facility at INF-001, INF-002, INF-003, INF-004, and INF-005 as follows:

Table E- 6. Influent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Flow	MGD	Recorder/totalizer	Continuous	а

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Biochemical Oxygen Demand (BOD₅ 20°C)	mg/L	24-hr composite	Daily	С
Total Suspended Solids (TSS)	mg/L	24-hr composite	Daily	С
рН	pH units	Grab	Weekly	b, c
Oil and Grease (O&G)	mg/L	Grab	Weekly	b, c, d
Total Organic Carbon (TOC)	mg/L	24-hr composite	Monthly	b, c
Total Nitrogen (as N)	mg/L	24-hr composite	Quarterly	С
Total Organic Nitrogen	mg/L	24-hr composite	Quarterly	С
Total phosphorus (as P)	mg/L	24-hr composite	Quarterly	С
Arsenic	μg/L	24-hr composite	Quarterly	c, e
Cadmium	μg/L	24-hr composite	Quarterly	c, e
Chromium (VI)	μg/L	Grab	Semiannually	c, e
Copper	μg/L	24-hr composite	Monthly	b, c, e
Lead	μg/L	24-hr composite	Quarterly	c, e
Mercury	μg/L	24-hr composite	Quarterly	c, e, f
Nickel	μg/L	24-hr composite	Quarterly	c, e
Selenium	μg/L	24-hr composite	Quarterly	c, e
Silver	μg/L	24-hr composite	Quarterly	c, e
Zinc	μg/L	24-hr composite	Quarterly	c, e
Cyanide, Total (as CN)	μg/L	Grab	Quarterly	С
Ammonia(as N)	mg/L	24-hr composite	Monthly	b, c
Phenols (non- chlorinated)	μg/L	24-hr composite	Semiannually	c, g
Phenols (chlorinated)	μg/L	24-hr composite	Quarterly	c, g
Endosulfans	μg/L	24-hr composite	Quarterly	c, g
Endrin	μg/L	24-hr composite	Semiannually	С
Hexachlorocyclohexane (HCH)	μg/L	24-hr composite	Semiannually	c, g
Radioactivity (including gross alpha, gross beta, combined radium-226 & radium-228, tritium, strontium-90 and uranium)	pCi/L	24-hr composite	Quarterly	c, h
Acrolein	μg/L	Grab	Semiannually	С
Antimony	μg/L	24-hr composite	Quarterly	c, e

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Bis (2-chloroethoxy) methane	μg/L	24-hr composite	oosite Semiannually	
Bis (2-chloroisopropyl) ether	μg/L	24-hr composite	Semiannually	С
Chlorobenzene	μg/L	Grab	Semiannually	С
Chromium (III)	μg/L	Calculated	Quarterly	c, e
Di-n-butyl phthalate	μg/L	24-hr composite	Quarterly	С
Dichlorobenzenes	μg/L	24-hr composite	Quarterly	c, g
Diethyl phthalate	μg/L	24-hr composite	Semiannually	С
Dimethyl phthalate	μg/L	24-hr composite	Semiannually	С
4,6-dinitro-2-methylphenol	μg/L	24-hr composite	Semiannually	С
2,4-dinitrophenol	μg/L	24-hr composite	Semiannually	С
Ethylbenzene	μg/L	Grab	Semiannually	С
Fluoranthene	μg/L	24-hr composite	Semiannually	С
Hexachlorocyclopenta- diene	μ g/L	24-hr composite	Semiannually	С
Nitrobenzene	μg/L	24-hr composite	Quarterly	С
Thallium	μg/L	24-hr composite	Quarterly	c, e
Toluene	μg/L	Grab	Quarterly	С
Tributyltin	ng/L	24-hr composite	Quarterly	С
1,1,1-Trichloroethane	μg/L	Grab	Semiannually	С
Acrylonitrile	μg/L	Grab	Semiannually	С
Aldrin	μg/L	24-hr composite	Semiannually	С
Benzene	μg/L	Grab	Semiannually	С
Benzidine	μg/L	24-hr composite	Semiannually	С
Beryllium	μg/L	24-hr composite	Quarterly	c, e
Bis (2-chloroethyl) ether	μg/L	24-hr composite	Semiannually	С
Bis (2-ethylhexyl) phthalate	μg/L	24-hr composite	Quarterly	С
Carbon tetrachloride	μg/L	Grab	Semiannually	С
Chlordane	μg/L	24-hr composite	Semiannually	c, g
Chlorodibromomethane	μg/L	Grab	Quarterly	С
Chloroform	μg/L	Grab	Quarterly	С
DDT	μg/L	24-hr composite	Quarterly	c, g
1,4-dichlorobenzene	μg/L	24-hr composite	Semiannually	С
3,3-dichlorobenzidine	μg/L	24-hr composite	Semiannually	С
1,2-Dichloroethane	μg/L	Grab	Semiannually	С
1,1-Dichloroethylene	μg/L	Grab	Semiannually	С

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Dichlorobromomethane	μg/L	Grab	Quarterly	С
Dichloromethane	μg/L	Grab	Quarterly	С
1,3-Dichloropropene	μg/L	Grab	Semiannually	С
Dieldrin	μg/L	24-hr composite	Semiannually	С
2,4-dinitrotoluene	μg/L	24-hr composite	Semiannually	С
1,2-diphenylhydrazine	μg/L	24-hr composite	Semiannually	С
Halomethanes	μg/L	Grab	Quarterly	c, g
Heptachlor	μg/L	24-hr composite	Semiannually	С
Heptachlor epoxide	μg/L	24-hr composite	Semiannually	С
Hexachlorobenzene	μg/L	24-hr composite	Semiannually	С
Hexachlorobutadiene	μg/L	24-hr composite	Semiannually	С
Hexachloroethane	μg/L	24-hr composite	Semiannually	С
Isophorone	μg/L	24-hr composite	Quarterly	С
N-Nitrosodimethylamine	μg/L	24-hr composite	Quarterly	С
N-Nitrosodi-n-propylamine	μg/L	24-hr composite	Semiannually	С
N-Nitrosodiphenylamine	μg/L	24-hr composite	Semiannually	С
Polycyclic Aromatic Hydrocarbons (PAHs)	μg/L	24-hr composite	Semiannually	c, g
Polychlorinated Biphenyls (PCBs) Aroclors	μg/L	24-hr composite	Quarterly	c, g, i
TCDD Equivalents	pg/L	24-hr composite	Quarterly	c, g, j
1,1,2,2-Tetrachloroethane	μg/L	Grab	Semiannually	С
Tetrachloroethylene	μg/L	Grab	Quarterly	С
Toxaphene	μg/L	24-hr composite	Semiannually	С
Trichloroethylene	μg/L	Grab	Semiannually	С
1,1,2-Trichloroethane	μg/L	Grab	Semiannually	С
2,4,6-Trichlorophenol	μg/L	24-hr composite	Quarterly	С
Vinyl chloride	μg/L	Grab	Semiannually	С
Methyl-tert-butyl-ether	μg/L	Grab	Quarterly	С
Total Chromium	μg/L	Grab	Quarterly	c, e

Footnotes for Table E-6:

- a. When continuous monitoring of flow is required, total daily flow, monthly average flow, and instantaneous peak daily flow (24-hour basis) shall be reported. Actual monitored flow shall be reported (not design capacity).
- b. For the influent and effluent, weekly and monthly sampling shall be arranged so that each day of the week is represented over a seven week or month period. The schedule should be repeated every seven weeks or months.

- c. Pollutants shall be analyzed using the analytical methods described in 40 CFR § 136; or where no methods are specified for a given pollutant, by methods approved by this Los Angeles Water Board, the State Water Board, and USEPA Region 9. For any pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the Ocean Plan, the analytical method with the lowest ML must be selected.
- d. Oil and grease monitoring shall consist of a single grab sample at peak flow over a 24-hour period.
- e. Concentrations shall be expressed as total recoverable.
- f. USEPA Method 1631E, with a quantitation level of 0.5 ng/L, shall be used to analyze total mercury.
- g. See Attachment A for definition of terms.
- h. Analyze these radiochemicals by the following USEPA methods: method 900.0 for gross alpha and gross beta, method 903.0 or 903.1 for radium-226, method 904.0 for radium-228, method 906.0 for tritium, method 905.0 for strontium-90, and method 908.0 for uranium. Analysis for combined radium-226 & 228 shall be conducted only if gross alpha and gross beta results for the same sample exceed 15 pCi/L or 50 pCi/L, respectively. If radium-226 & 228 exceeds 5 pCi/L, then analyze for tritium, strontium-90, and uranium.
- i. PCBs as aroclors shall be analyzed using USEPA method 608.3.
- j. USEPA Method 1613 shall be used to analyze TCDD equivalents.

End of footnotes for Table E-6

4. EFFLUENT MONITORING REQUIREMENTS

Effluent monitoring is required to determine compliance with NPDES permit conditions and water quality standards; assess and improve plant performance and identify operational problems; provide information on wastewater characteristics and flows for use in interpreting water quality and biological data; conduct reasonable potential analyses for toxic pollutants; and to determine waste load allocation compliance and TMDL effectiveness.

4.1. Monitoring Location at EFF-001 and EFF-002

The Discharger shall monitor effluent at EFF-001 and EFF-002 as follows. If more than one analytical test method is listed for a given parameter, the Permittee must select from the listed methods and corresponding ML:

Table E-7. Effluent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Flow	MGD	Recorder/totalizer	Continuous	a, b, c
BOD₅ 20°C	mg/L	24-hour composite	Daily	a, c, d

ATTACHMENT E – MRP TENTATIVE ORDER: 8/30/2022

Parameter	Units	Sample Type Sampling Frequency		Notes
TSS	mg/L	24-hour composite	Daily	a, c, d
рН	pH units	Grab	Weekly	a, c, e
Oil and Grease	mg/L	Grab	Weekly	a, c, e, f
Temperature	٥F	Continuous	Continuous	a, c
TOC	mg/L	24-hr composite	Monthly	a, c, d, e
Settleable Solids	mL/L	Grab	Daily	a, c, f
Dissolved Oxygen	mg/L	Grab	Weekly	a, c, e
Turbidity	NTU	Grab and 24-hr composite	Weekly	a, c, d, e
Nitrate Nitrogen	mg/L	24-hour composite	Monthly	a, c, d
Nitrite Nitrogen	mg/L	24-hour composite	Monthly	a, c, d
Total Organic Nitrogen	mg/L	24-hour composite	Monthly	a, c, d
Total Nitrogen (as N)	mg/L	24-hr composite	Monthly	a, c, d
Total Phosphorus (as P)	mg/L	24-hr composite	Quarterly	a, c, d
Arsenic	μg/L	24-hr composite	Quarterly	a, c, d, g
Cadmium	μg/L	24-hr composite	Quarterly	a, c, d, g
Chromium (VI)	μg/L	Grab	Quarterly	a, c, g
Copper	μg/L	24-hr composite for Discharge Point 002; Grab and 24-hr composite for Discharge Point 001	Monthly	a, c, d, e, g
Lead	μg/L	24-hr composite	Quarterly	a, c, d, g
Mercury	μg/L	24-hr composite	Quarterly	a, c, d, g, h
Nickel	μg/L	24-hr composite	Quarterly	a, c, d, g
Selenium	μg/L	24-hr composite	Quarterly	a, c, d, g
Silver	μg/L	24-hr composite	Quarterly	a, c, d, g
Zinc	μg/L	24-hr composite	Quarterly	a, c, d, g
Cyanide, Total	μg/L	Grab	Semiannually	a, c
Total Chlorine Residual (Discharge Point 001 only)	mg/L	Grab	Daily	a, c, i

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Ammonia (as N)	mg/L	Grab and 24-hr composite	Monthly	a, c, d, e
Toxicity, Chronic	Pass or Fail, % Effect (TST)	24-hr composite	Monthly	a, c, d, e, n
Phenols (non- chlorinated)	μg/L	24-hr composite	Quarterly	a, c, d, j
Phenols (chlorinated)	μg/L	24-hr composite	Semiannually	a, c, d, j
Endosulfans	μg/L	24-hr composite	Quarterly	a, c, d, j
Endrin	μg/L	24-hr composite	Semiannually	a, c, d
HCH	μg/L	24-hr composite	Semiannually	a, c, d, j
Radioactivity (including gross alpha, gross beta, combined radium-226 & radium-228, tritium, strontium-90 and uranium)	pCi/L	24-hr composite	Quarterly	a, c, d, k
Acrolein	μg/L	Grab	Semiannually	a, c
Antimony	μg/L	24-hr composite	Quarterly	a, c, d, g
Bis (2-chloroethoxy) methane	μg/L	24-hr composite	Semiannually	a, c, d
Bis (2-chloroisopropyl) ether	μg/L	24-hr composite	Semiannually	a, c, d
Chlorobenzene	μg/L	Grab	Semiannually	a, c
Chromium (III)	μg/L	Calculated	Quarterly	a, c, g
Di-n-butyl phthalate	μg/L	24-hr composite	Quarterly	a, c, d
Dichlorobenzenes, Sum	μg/L	24-hr composite	Semiannually	a, c, d, j
Diethyl Phthalate	μg/L	24-hr composite	Semiannually	a, c, d
Dimethyl Phthalate	μg/L	24-hr composite	Semiannually	a, c, d
4,6-dinitro-2- methylphenol	μg/L	24-hr composite	Semiannually	a, c, d
2,4-dinitrophenol	μg/L	24-hr composite	Quarterly	a, c, d
Ethylbenzene	μg/L	Grab	Semiannually	a, c
Fluoranthene	μg/L	24-hr composite	Semiannually	a, c, d

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Hexachlorocyclopenta- diene	μg/L	24-hr composite	Semiannually	a, c, d
Nitrobenzene	μg/L	24-hr composite	Semiannually	a, c, d
Thallium	μg/L	24-hr composite	Quarterly	a, c, d, g
Toluene	μg/L	Grab	Quarterly	a, c
Tributyltin	μg/L	24-hr composite	Quarterly	a, c, d
1,1,1-Trichloroethane	μg/L	Grab	Semiannually	a, c
Acrylonitrile	μg/L	Grab	Semiannually	a, c
Aldrin	μg/L	24-hr composite	Semiannually	a, c, d
Benzene	μg/L	Grab	Semiannually	a, c
Benzidine	μg/L	24-hr composite	Semiannually	a, c, d
Beryllium	μg/L	24-hr composite	Quarterly	a, c, d, g
Bis (2-chloroethyl) ether	μg/L	24-hr composite	Semiannually	a, c, d
Bis (2-ethylhexyl) phthalate	μg/L	24-hr composite	Quarterly	a, c, d
Carbon Tetrachloride	μg/L	Grab	Semiannually	a, c
Chlordane	μg/L	24-hr composite	Semiannually	a, c, d, j
Chlorodibromomethane	μg/L	Grab	Quarterly	a, c
Chloroform	μg/L	Grab	Quarterly	a, c
DDT	μg/L	24-hr composite	Quarterly	a, c, d, j
1,4-dichlorobenzene	μg/L	24-hr composite	Semiannually	a, c, d
3,3-dichlorobenzidine	μg/L	24-hr composite	Semiannually	a, c, d
1,2-dichloroethane	μg/L	Grab	Semiannually	a, c
1,1-dichloroethylene	μg/L	Grab	Semiannually	a, c
Dichlorobromomethane	μg/L	Grab	Quarterly	a, c
Dichloromethane	μg/L	Grab	Quarterly	a, c
1,3-Dichloropropene	μg/L	Grab	Semiannually	a, c
Dieldrin	μg/L	24-hr composite	Semiannually	a, c, d
2,4-dinitrotoluene	μg/L	24-hr composite	Semiannually	a, c, d
1,2-diphenylhydrazine	μg/L	24-hr composite	Semiannually	a, c, d
Halomethanes	μg/L	Grab	Quarterly	a, c, j
Heptachlor	μg/L	24-hr composite	Semiannually	a, c, d
Heptachlor Epoxide	μg/L	24-hr composite	Semiannually	a, c, d
Hexachlorobenzene	μg/L	24-hr composite	Semiannually	a, c, d
Hexachlorobutadiene	μg/L	24-hr composite	Semiannually	a, c, d
Hexachloroethane	μg/L	24-hr composite	Semiannually	a, c, d
Isophorone	μg/L	24-hr composite	Semiannually	a, c, d

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
N-Nitrosodimethylamine	μg/L	24-hr composite	Quarterly	a, c, d
N-Nitrosodi-n- propylamine	μg/L	24-hr composite	Semiannually	a, c, d
N-Nitrosodiphenylamine	μg/L	24-hr composite	Semiannually	a, c, d
PAHs	μg/L	24-hr composite	Semiannually	a, c, d, j
PCBs Aroclors	μg/L	24-hr composite	Quarterly	a, c, d, j, l
PCBs Congeners	pg/L	24-hr composite	Annually	a, c, d, j, l
TCDD Equivalents	pg/L	24-hr composite	Monthly	a, c, d, e, j, m
1,1,2,2- Tetrachloroethane	μg/L	Grab	Semiannually	a, c
Tetrachloroethylene	μg/L	Grab	Quarterly	a, c
Toxaphene	μg/L	24-hr composite	Semiannually	a, c, d
Trichloroethylene	μg/L	Grab	Semiannually	a, c
1,1,2-Trichloroethane	μg/L	Grab	Semiannually	a, c
2,4,6-Trichlorophenol	μg/L	24-hr composite	Semiannually	a, c, d
Vinyl chloride	μg/L	Grab	Semiannually	a, c
Methyl-tert-butyl-ether	μg/L	Grab	Quarterly	a, c
Total Chromium	μg/L	Grab	Quarterly	a, c, g

Footnotes for Table E-7:

- a. For Discharge Point 001, the minimum frequency of analysis shall be once per discharge day, but no more than one analysis is required during the indicated sampling period for those constituents that are monitored less frequently. During routine maintenance activities lasting less than 24 hours at Discharge Point 001, sampling and analyses are not required except for parameters with instantaneous maximum effluent limitations specified in Table 6 of the Order/Permit: pH, oil and grease, settleable solids, turbidity, ammonia, copper, and total chlorine residual. Compliance with the instantaneous maximum final effluent limitations (with the exception of total chlorine residual) may be determined at the compliance location for Discharge Point 002 during routine maintenance of the gates at the diversion structure as long as there is no plant upset during maintenance and the sample is representative of the final effluent discharged to the 1-Mile Outfall.
- b. When continuous monitoring of flow is required, total daily flow, monthly average flow, and instantaneous peak daily flow (24-hour basis) shall be reported. Actual monitored flow shall be reported (not design capacity).
- c. Pollutants shall be analyzed using the analytical methods described in 40 CFR § 136; or where no methods are specified for a given pollutant, by methods approved by this Los Angeles Water Board, the State Water Board, and USEPA Region 9. For any

- pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the Ocean Plan, the analytical method with the lowest ML must be selected.
- d. For discharge durations of less than 24 hours, individual grab samples may be substituted. A grab sample is an individual sample collected in less than 15 minutes.
- e. For the influent and effluent, weekly and monthly sampling shall be arranged so that each day of the week is represented over a seven week or month period. The schedule should be repeated every seven weeks or months.
- f. Oil and grease, and settleable solids monitoring shall consist of a single grab sample at peak flow over a 24- hour period.
- g. Total recoverable concentrations shall be reported.
- h. USEPA Method 1631E, with a quantitation level of 0.5 ng/L, shall be used to analyze total mercury.
- i. Total residual chlorine is monitored at receiving water station A2 for compliance with the final effluent limitation for Discharge Point 001.
- j. See Attachment A for definition of terms.
- k. Analyze these radiochemicals by the following USEPA methods: method 900.0 for gross alpha and gross beta, method 903.0 or 903.1 for radium-226, method 904.0 for radium-228, method 906.0 for tritium, method 905.0 for strontium-90, and method 908.0 for uranium. Analysis for combined radium-226 & 228 shall be conducted only if gross alpha and gross beta results for the same sample exceed 15 pCi/L or 50 pCi/L, respectively. If radium-226 & 228 exceeds 5 pCi/L, then analyze for tritium, strontium-90, and uranium.
- I. PCBs as congeners shall be individually quantified (or quantified as mixtures of isomers of a single congener in co-elutions as appropriate) using USEPA proposed method 1668c. PCBs as congeners shall be analyzed using method EPA 1668c for three years and an alternate method may be used if none of the PCB congeners are detected for three years using method EPA 1668c. USEPA recommends that until USEPA proposed method 1668c for PCBs is incorporated into 40 CFR § 136, Permittees should use for discharge monitoring reports/State monitoring reports: (1) USEPA method 608 for monitoring data, reported as aroclor results, that will be used for assessing compliance with water quality-based effluent limitations (if applicable) and (2) USEPA proposed method 1668c for monitoring data, reported as 41 congener results, that will be used for informational purposes to help assess concentrations in the receiving water.
- m. USEPA Method 1613 shall be used to analyze TCDD equivalents.
- n. The Permittee shall conduct whole effluent toxicity monitoring using the most sensitive species as the test species, as outlined in section 5 of this MRP.

End of footnotes for Table E-7

4.2. Mass Emission Benchmarks

Constituents that have been assigned Mass Emission Benchmarks are listed in the NPDES Order/Permit under section 5. The Mass Emission Benchmarks have been established for the discharge through the 5-Mile Outfall (Discharge Point

ATTACHMENT E – MRP TENTATIVE ORDER: 8/30/2022 002) and shall be reported in metric tons per year (MT/yr). The Permittee shall monitor and report the mass emission rate for all constituents that have mass emission benchmarks. For each constituent, the 12-month average mass emission rate and the concentration and flow used to calculate that mass emission rate shall be reported in the annual NPDES summary report.

4.3. Flame Retardant and Per-and Polyfluoroalkyl Substances (PFAS) Monitoring

The effluent monitoring requirements described below are consistent with the Terms and Conditions of the recent NMFS biological opinion. Effluent monitoring for flame retardants and PFAS is designed to answer the following questions:

- 1) What are the concentrations of flame retardants and PFAS in the effluent?
- 2) What is the mass of flame retardants and PFAS that are discharged to the receiving water?
- 3) Are the concentrations of flame retardants and PFAS in the effluent changing over time?
- 4) Do the concentrations of flame retardants and PFAS in the effluent vary between wet and dry weather?

The Discharger shall monitor for flame retardants and PFAS at Monitoring Location EFF-002 as described in Table E-8 below

Table E-8. Flame Retardants and PFAS Monitoring

Parameter	Chemical Abstracts Services Number	Units	Sample Type	Minimum Sampling Frequency	Notes
BDE 47 (2,2',4,4'- tetrabromodiphenyl ether)	Not available	ng/L & lbs/day	24-hr composite	1/year in wet weather and 1/year in dry weather	a, b, c, d
BDE 99 (2,2',4,4',5- Pentabromodiphenyl ether)	Not available	ng/L & lbs/day	24-hr composite	1/year in wet weather and 1/year in dry weather	a, b, c, d
BDE 100 (2,2',4,4',6- Pentabromodiphenyl ether)	Not available	ng/L & lbs/day	24-hr composite	1/year in wet weather and 1/year in dry weather	a, b, c, d

Parameter	Chemical Abstracts Services Number	Units	Sample Type	Minimum Sampling Frequency	Notes
BDE 183 (2,2',3,4,4',5',6- heptabromodiphenyl ether)	Not available	ng/L & lbs/day	24-hr composite	1/year in wet weather and 1/year in dry weather	a, b, c, d
TDCPP (tris(1,3-dichloro-2-propyl)phosphate)	13674-87-8	ng/L & lbs/day	24-hr composite	1/year in wet weather and 1/year in dry weather	a, b, c
TCEP (tris(2- chloroethyl)phosphate)	115-96-8	ng/L & lbs/day	24-hr composite	1/year in wet weather and 1/year in dry weather	a, b, c
TCPP (tris(1-chloro-2- propyl)phosphate)	13674-84-5	ng/L & lbs/day	24-hr composite	1/year in wet weather and 1/year in dry weather	a, b, c
PFDA (Perfluorodecanoic acid)	335-76-2	ng/L & lbs/day	24-hr composite	1/year	е
PFDoA (Perfluorododecanoic acid)	307-55-1	ng/L & lbs/day	24-hr composite	1/year	е
PFHxA (Perfluorohexanoic acid)	307-24-4	ng/L & lbs/day	24-hr composite	1/year	е
PFHpA (Perfluoroheptanoic acid)	375-85-9	ng/L & lbs/day	24-hr composite	1/year	е
PFNA (Perfluorononanoic acid)	375-95-1	ng/L & lbs/day	24-hr composite	1/year	е
PFOA (Perfluorooctanoic acid)	335-67-1	ng/L & lbs/day	24-hr composite	1/year	е

Parameter	Chemical Abstracts Services Number	Units	Sample Type	Minimum Sampling Frequency	Notes
PFTeDA (Perfluorotetradecanoic acid)	376-06-7	ng/L & lbs/day	24-hr composite	1/year	е
PFTrDA (Perfluorotridecanoic acid)	72629-94-8	ng/L & lbs/day	24-hr composite	1/year	е
PFUnDA (Perfluoroundecanoic acid)	2058-94-8	ng/L & lbs/day	24-hr composite	1/year	е
PFBS (Perfluorobutane sulfonic acid)	375-73-5	ng/L & lbs/day	24-hr composite	1/year	е
PFHxS (Perfluorohexane sulfonic acid)	355-46-4	ng/L & lbs/day	24-hr composite	1/year	е
PFOS (Perfluorooctane sulfonic acid)	1763-23-1	ng/L & lbs/day	24-hr composite	1/year	е

Footnotes for Table E-8:

- a. The Discharger shall calculate and report the mass loading rate in both pounds per day (lbs/day) and metric tons per year. The mass loading in lbs/day shall be calculated using the following formula: 8.34 x Q x C, where Q is the average daily effluent flow rate at EFF-001 and/or EFF-002 on the day of sampling in MGD and C is the concentration in mg/L.
- b. The Discharger shall monitor for flame retardants once during dry weather and once during wet weather annually from the effective date of this Order/Permit. Wet weather is defined as a storm event producing greater than 0.1 inches of precipitation within a 3-day period. In the event that a wet weather sample is not able to be collected, analyzed, and reported by June 30 of each year, the Discharger shall collect an additional sample in dry weather for that year.
- c. USEPA Methods 1694 Modified or 1698 Modified; ASTM Methods D7065 or D7485; or other methodologies utilized by the United States Geological Survey, State Water Board Division of Drinking Water, or other federal or State agencies.
- d. USEPA Methods 1614A Modified using GC/MS SIM or other methodologies utilized by the United States Geological Survey, State Water Board Division of Drinking Water, or other federal or State agencies.
- e. USEPA Method 537.1 Modified with isotope dilution using LC/MS/MS or other methodologies to meet the required reporting limit of 50 ng/L.

End of footnotes for Table E-8

The Discharger shall submit the flame retardant and PFAS monitoring results annually no later than June 30 of the year following sampling to the California Integrated Water Quality System online database (CIWQS) as a separate report.

ORDER XX-XXXX-XXX NPDES NO. CA0109991

The Discharger shall also submit the results of all flame retardant and PFAS to USEPA and NMFS either electronically or by mail at the following addresses:

NMFS WCR Protected Resources Division's Long Beach Office Branch Chief:

Electronically: Penny.Ruvelas@noaa.gov

By mail: NMFS West Coast Region 501 West Ocean Boulevard, Suite 4200 Long Beach, California 90802

USEPA Region 9, Water Division, NPDES Permits Office Chief:

Electronically: R9NPDES@epa.gov and sablad.elizabeth@epa.gov

4.4. Nutrients Monitoring and Estimating Nitrogen Load to Santa Monica Bay

The Discharger shall monitor the effluent for all forms of nitrogen as summarized in Table E-6 (i.e., total organic nitrogen, ammonia-N, nitrate-N, and nitrite-N) monthly and provide an estimation of total nitrogen discharged on an annual basis to the waters of Santa Monica Bay in order to determine the discharge's potential influence on harmful algal bloom dynamics and ocean acidification. The Discharger shall calculate the mass loading rate in lbs/day and in metric tons per year. The mass loading rate in lbs/day shall be calculated using the following formula:

8.34 x Q x C, where Q is the average daily effluent flow rate at the monitoring location and C is the concentration in mg/L

The Discharger shall submit the estimated annual total nitrogen loads discharged to Santa Monica Bay to CIWQS as a standalone report as well as to USEPA and NMFS either electronically or by mail at the following addresses:

NMFS WCR Protected Resources Division's Long Beach Office Branch Chief:

- Electronically: Penny.Ruvelas@noaa.gov
- By mail: NMFS West Coast Region
 501 West Ocean Boulevard, Suite 4200
 Long Beach, California 90802

USEPA Region 9, Water Division, NPDES Permits Office Chief:

Electronically: R9NPDES@epa.gov and sablad.elizabeth@epa.gov

5. WHOLE EFFLUENT TOXICITY (WET) TESTING REQUIREMENTS

5.1. Discharge In-stream Waste Concentration (IWC) for Chronic Toxicity

The chronic IWC is the concentration of a pollutant or the parameter toxicity in the receiving water after mixing. The chronic toxicity IWCs for Discharge Points 001 and 002 are 7.1% and 1.04% effluent, respectively.

5.2. Sample Volume and Holding Time

The total sample volume shall be determined by the specific toxicity test method used. Sufficient sample volume shall be collected to perform the required toxicity test. For the receiving water, sufficient sample volume shall also be collected during accelerated monitoring for subsequent Toxicity Identification Evaluation (TIE) studies, if necessary, at each sampling event. All toxicity tests shall be conducted as soon as possible following sample collection. No more than 36 hours shall elapse before the conclusion of sample collection and test initiation.

5.3. Chronic Marine Species and Test Methods

If effluent samples are collected from outfalls discharging to receiving waters with salinity >1 ppt, the Permittee shall conduct the following chronic toxicity tests on effluent samples, at the in-stream waste concentration for the discharge, in accordance with species and test methods in *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms* (EPA/600/R-95/136, 1995). Artificial sea salts or hypersaline brine shall be used to increase sample salinity if needed. In no case shall these species be substituted with another test species unless written authorization from the Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director is received.

- a. A static renewal toxicity test with the topsmelt, *Atherinops affinis* (Larval Survival and Growth Test Method 1006.0).
- b. A static non-renewal toxicity test with the purple sea urchin, Strongylocentrotus purpuratus, and the sand dollar, Dendraster excentricus (Fertilization Test Method 1008.0), or a static non-renewal toxicity test with the red abalone, Haliotis rufescens (Larval Shell Development Test Method).
- c. A static non-renewal toxicity test with the giant kelp, *Macrocystis* pyrifera (Germination and Growth Test Method 1009.0).

5.4. Species Sensitivity Screening

The Permittee shall begin a species sensitivity screening at least 18 months prior to the expiration date of Order Number R4-2023-xxxx. For continuous dischargers, species sensitivity screening includes four sets of valid tests completed in the span of one year, with one set collected in each of the four quarters. In each of the four sets, the Permittee shall collect a single effluent sample to initiate and concurrently conduct three toxicity tests using the fish, an invertebrate, and the alga species previously referenced. This sample shall also be analyzed for the parameters required on a monthly frequency for the discharge, during that given month. As required in the test method for *Atherinops affinis* for off-site tests, a minimum of three samples shall be collected on days one, three, and five with a maximum holding time of 36 hours before the first use. Since the Permittee has conducted a species sensitivity screening prior to the effective date of Order R4-2022-XXXX, the most sensitive species selected

during that screening process shall be used for the toxicity testing until a new species sensitivity screening is conducted.

If the results of all 12 valid tests conducted during the species sensitivity screening is "Pass," then the species that exhibited the highest percent effect in any single test shall be used for routine monitoring during the following permit cycle. Likewise, if the results of all 12 valid tests conducted during the species sensitivity screening is "Fail," then the species that exhibited the highest percent effect in any single test shall be used for routine monitoring during the following permit cycle. If the result of only one of the 12 valid tests conducted during the species sensitivity screening is "Fail," then the species used in that test shall be used for routine monitoring during the following permit cycle. If there are multiple valid tests conducted during the species sensitivity screening that result in "Fail," the species that resulted in a "Fail" the most often during the species sensitivity screening shall be used in routine monitoring during the following permit cycle. If two species had the same number of tests that result in "Fail" the species that exhibited the highest percent effect in any single test that resulted in "Fail" shall be used during routine monitoring during the following permit cycle.

During the calendar month, toxicity tests used to determine the most sensitive test species shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL.

5.5. Quality Assurance and Additional Requirements

Quality assurance measures, instructions, and other recommendations and requirements are found in the test methods manual previously referenced. Additional requirements are specified below:

5.5.1. The discharge is subject to determination of "Pass" or "Fail" from a chronic toxicity test using the Test of Significant Toxicity (TST) statistical t-test approach described in the National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, 2010), Appendix A. Figure A-1, Table A-1 and Appendix B. Table B-1. The null hypothesis (H_o) for the TST statistical approach is: Mean discharge IWC response ≤0.75 × Mean control response. A test result that rejects this null hypothesis is reported as "Pass." A test result that does not reject this null hypothesis is reported as "Fail." The relative "Percent Effect" at the discharge IWC is defined and reported as: (Mean control response -Mean discharge IWC response) ÷ Mean control response) × 100. This is a t-test (formally Student's t-Test), a statistical analysis comparing two sets of replicate observations - in the case of WET, only two test concentrations (i.e., a control and IWC). The purpose of this statistical test is to determine if the means of the two sets of observations are different (i.e., if the IWC or receiving water concentration differs from the control (the test result is "Pass" or "Fail")). The Welch's t-test employed by the TST statistical approach is an adaptation of Student's t-test and is used with two samples having unequal variances.

5.5.2. If the effluent toxicity test does not meet all test acceptability criteria (TAC) and all required test conditions specified in the referenced Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (See Table E-9 for TAC below), the Permittee must re-sample and re-test within 14 days. Deviations from recommended test conditions, specified in the referenced Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, must be evaluated on a case-by-case to determine the validity of test results. The Discharger shall consider the degree of the deviation and the potential or observed impact of the deviation on the test results in consultation with Los Angeles Water Board and USEPA Region 9 staff before rejecting or accepting a test result as valid and shall report the results of the validity determination with supporting evidence for that decision in their monthly report.

Table E- 9. USEPA Test Methods and Test Acceptability Criteria

Species & USEPA Test Method Number	Test Acceptability Criteria (TAC)
Topsmelt, <i>Atherinops affinis</i> , Larval Survival and Growth Test Method 1006.01. (Table 3 of test method)	80% or greater survival in controls; average dry weight per surviving organism in control chambers equals or exceeds 0.85 mg. LC50 with copper must be ≤ 205 µg/L, <25% MSD for survival and <50% MSD for growth. If the test starts with 9-day old larvae, the mean weight per larva must exceed 0.85 milligrams in the reference and brine controls; the mean weight of preserved larvae must exceed 0.72 milligrams. (required)
Purple Sea Urchin, Strongylocentrotus purpuratus, and the Sand Dollar, Dendraster excentricus, Fertilization Test Method 1008.0 (Table 7 of test method)	70% or greater egg fertilization in controls, must achieve an MSD of <25%, and appropriate sperm counts. (required)
Red Abalone, <i>Haliotis rufescens</i> , Larval Shell Development Test Method (Table 3 of test method)	80% or greater normal shell development in the controls; must have statistically significant effect at 56 µg/L zinc and achieve an MSD of <20%. (required)

Species & USEPA Test Method Number	Test Acceptability Criteria (TAC)
Giant Kelp, <i>Macrocystis pyrifera</i> , Germination and Growth Test Method 1009.0 (Table 3 of test method)	70% or greater germination in controls, ≥ 10 µm germ-tube length in controls, No Observed Effect Concentration (NOEC) must be below 35 µg/L in the reference toxicant test, and must achieve an MSD of <20% for both germination and germ-tube length in the reference toxicant. (required)

- 5.5.3. Dilution water and control water, including brine controls, shall be 1-µm-filtered uncontaminated natural seawater, hypersaline brine prepared using uncontaminated natural seawater, or laboratory water prepared and used as specified in the test methods manual. If dilution water and control water is different from test organism culture water, then a second control using culture water shall also be used.
- 5.5.4. Monthly reference toxicant testing is sufficient. All reference toxicant test results should be reviewed and reported using EC25. EC25 is a point estimate of the toxicant concentration that would cause an observable adverse effect (e.g., death, immobilization, or serious incapacitation) in 25 percent of the test organisms.
- 5.5.5. The Permittee shall perform toxicity tests on final effluent samples.

 Chlorine and ammonia shall not be removed from the effluent sample prior to toxicity testing, unless explicitly authorized under this section of the MRP and the rational is explained in the Fact Sheet (Attachment F).

5.6. Preparation of an Initial Investigation Toxicity Reduction Evaluation (TRE) Work Plan

The Permittee shall prepare and submit a copy of the Permittee's initial investigation TRE work plan to the Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director for approval within 90 days of the effective date of this Order/Permit. If the Executive Officer/Water Division Director do not disapprove the work plan within 60 days of being submitted, the work plan shall become effective. The Permittee shall use USEPA manual EPA/833B-99/002 (municipal) as guidance, or most current version, or USEPA manual *Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations (EPA/600/2-88/070, April 1989)*. At a minimum, the TRE Work Plan must contain the provisions in Attachment G. This work plan shall describe the steps that the Permittee intends to follow if toxicity is detected. At minimum, the work plan shall include:

 A description of the investigation and evaluation techniques that will be used to identify potential causes and sources of toxicity, effluent variability, and treatment system efficiency;

- b. A description of the Facility's methods of maximizing in-house treatment efficiency and good housekeeping practices, and a list of all chemicals used in the operation of the Facility; and
- c. If a TIE is necessary, an indication of the person who would conduct the TIEs (i.e., an in-house expert or an outside contractor).

5.7. Accelerated Monitoring Schedule for Maximum Daily Single Result: "Fail."

The Maximum Daily single result shall be used to determine if accelerated testing needs to be conducted.

Once the Permittee becomes aware of this result, the Permittee shall implement an accelerated monitoring schedule within 5 calendar days of the receipt of the result. However, if the sample is contracted out to a commercial laboratory, the Permittee shall ensure that the first of six accelerated monitoring tests is initiated within seven calendar days of the Permittee becoming aware of the result. The accelerated monitoring schedule shall consist of six toxicity tests (including the discharge IWC), conducted at approximately two-week intervals, over a twelve-week period; in preparation for the TRE process and associated reporting, these results shall also be reported using the EC25. If each of the accelerated toxicity tests results in "Pass," the Permittee shall return to routine monitoring for the next monitoring period. If one of the accelerated toxicity tests results in "Fail," the Permittee shall immediately implement the TRE Process conditions set forth below. During accelerated monitoring schedules, only TST results ("Pass" or "Fail") for chronic toxicity tests shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL.

5.8. Toxicity Reduction Evaluation (TRE) Process

The Discharger shall conduct a TRE in accordance with a TRE Work Plan as approved by Los Angeles Water Board and USEPA Region 9. Routine monitoring shall continue during a TRE and TST results ("Pass" or "Fail") for chronic toxicity tests shall be reported as effluent compliance monitoring results for the chronic toxicity MDEL.

5.8.1. Preparation and Implementation of Detailed TRE Work Plan. The Permittee shall immediately initiate a TRE using, according to the type of treatment facility, USEPA manual *Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants* (EPA/833/B-99/002, 1999) or EPA manual *Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations* (EPA/600/2-88/070, April 1989) and, within 30 days of a toxicity event, submit to the Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director a detailed TRE Work Plan, which shall follow the initial investigation TRE Work Plan revised as appropriate for this toxicity event. It shall include the following information, and comply with additional conditions set by the Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director:

- a. Further actions by the Permittee to investigate, identify, and correct the causes of toxicity;
- b. Actions the Permittee will take to mitigate the effects of the discharge and prevent the recurrence of toxicity; and
- c. A schedule for these actions, progress reports, and the final report.
- 5.8.2. **TIE Implementation**. The Permittee may initiate a TIE as part of a TRE to identify the causes of toxicity using the same species and test method and, as guidance, USEPA manuals: *Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures* (EPA/600/6-91/003, 1991); Chronic TIE Manual: *Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I* (EPA/600/6-91/005F, 1992); *Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPA/600/R-92/080, 1993); *Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPA/600/R-92/081, 1993); and *Marine Toxicity Identification Evaluation (TIE): Phase I Guidance Document* (EPA/600/R-96-054, 1996). The TIE should be conducted on the species demonstrating the most sensitive toxicity response.
- 5.8.3. Many recommended TRE elements parallel required or recommended efforts for source control, pollution prevention, and stormwater control programs. TRE efforts should be coordinated with such efforts. As toxic substances are identified or characterized, the Permittee shall continue the TRE by determining the sources and evaluating alternative strategies for reducing or eliminating the substances from the discharge. All reasonable steps shall be taken to reduce toxicity to levels consistent with toxicity evaluation parameters.
- 5.8.4. The Permittee shall continue to conduct routine effluent monitoring while the TIE and/or TRE process is taking place. Additional accelerated monitoring and TRE work plans are not required once a TRE has begun.
- 5.8.5. The Los Angeles Water Board and USEPA Region 9 recognizes that toxicity may be episodic and identification of causes and reduction of sources of toxicity may not be successful in all cases. However, TRE shall be carried out in accordance with the Executive Officer/Water Division Director-approved TRE Work Plan.
- 5.8.6. The Los Angeles Water Board and USEPA Region 9 may consider the results of any TIE/TRE studies in an enforcement action.

5.9. Reporting

The Self-Monitoring Report (SMR) shall include a full laboratory report for each toxicity test. This report shall be prepared using the format and content of the test methods manual chapter called Report Preparation, including:

- 5.9.1. The valid toxicity test results for the TST statistical approach, reported as "Pass" or "Fail" and "Percent Effect" at the chronic toxicity IWC for the discharge, using the most sensitive species. All toxicity test results (whether identified as valid or otherwise) conducted during the calendar month shall be reported on the SMR due date specified in Table E-16.
- 5.9.2. A summary of water quality measurements for each toxicity test (e.g., pH, dissolved oxygen, temperature, conductivity, total hardness, salinity, chlorine, and ammonia).
- 5.9.3. The statistical analysis used in *National Pollutant Discharge Elimination*System Test of Significant Toxicity Implementation Document (EPA 833-R10-003, 2010) Appendix A, Figure A-1, Table A-1, and Appendix B, Table
 B-1.
- 5.9.4. TRE/TIE results. The Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director shall be notified no later than 30 days from completion of each aspect of TRE/TIE analyses. Prior to the completion of the final TIE/TRE report, the Permittee shall provide status updates in the monthly monitoring reports, indicating which TIE/TRE steps are underway and which steps have been completed.
- 5.9.5. Statistical program (e.g., TST calculator, CETIS, etc.) output results, including graphical plots, for each toxicity test.
- 5.9.6. Tabular data and graphical plots clearly showing the laboratory's performance for the reference toxicant, for each solution, for the previous 20 tests and the laboratory's performance for the control mean, control standard deviation, and control coefficient of variation, for each solution, for the previous 12-month period.
- 5.9.7. Any additional QA/QC documentation or any additional chronic toxicityrelated information, upon request from the Los Angeles Water Board Chief Deputy Executive Officer/Executive Officer or the USEPA Region 9 Water Division Director.

5.10. Ammonia Removal

5.10.1. Except with prior approval from the Executive Officer of the Los Angeles Water Board or Water Division Director of USEPA Region 9, ammonia shall not be removed from bioassay samples. The Permittee must demonstrate the effluent toxicity is caused by ammonia because of increasing test pH when conducting the toxicity test. It is important to distinguish the potential toxic effects of ammonia from other pH sensitive

chemicals, such as certain heavy metals, sulfide, and cyanide. The following may be steps to demonstrate that the toxicity is caused by ammonia and not other toxicants before the Executive Officer/Water Division Director would allow for control of pH in the test.

- a. There is consistent toxicity in the effluent and the maximum pH in the toxicity test is in the range to cause toxicity due to increased pH.
- b. Chronic ammonia concentrations in the effluent are greater than 4 mg/L total ammonia.
- c. Conduct graduated pH tests as specified in the toxicity identification evaluation methods. For example, mortality should be higher at pH 8 and lower at pH 6.
- d. Treat the effluent with a zeolite column to remove ammonia. Mortality in the zeolite treated effluent should be lower than the non-zeolite treated effluent. Then add ammonia back to the zeolite-treated samples to confirm toxicity due to ammonia.
- 5.10.2. When it has been demonstrated that toxicity is due to ammonia because of increasing test pH, pH may be controlled using appropriate procedures which do not significantly alter the nature of the effluent, after submitting a written request to the Los Angeles Water Board and receiving written permission expressing approval from the Executive Officer of the Los Angeles Water Board or Water Division Director of the USEPA Region 9.

5.11. Chlorine Removal

Except with prior approval from the Los Angeles Water Board Executive Officer or USEPA Region 9 Water Division Director, chlorine shall not be removed from bioassay samples.

6. LAND DISCHARGE MONITORING REQUIREMENTS (NOT APPLICABLE)

7. RECYCLING MONITORING REQUIREMENTS (NOT APPLICABLE)

8. RECEIVING WATER MONITORING REQUIREMENTS

All receiving water stations shall be located by state-of-the-art navigational methods (e.g., Differential Global Positioning System [DGPS]); other means (e.g., visual triangulation, fathometer readings) may be used to improve the accuracy of locating stations.

8.1. Inshore Water Quality Monitoring

This monitoring is designed to determine if Ocean Plan and Basin Plan objectives for bacteria are being met. Data collected at inshore stations provide the means to determine whether bacteriological objectives for water contact and shellfish harvesting are being met in the area of greatest potential for water

contact and shellfish harvesting activities most proximal to the points of discharge.

The Permittee shall monitor the 11 inshore stations listed in Table E-2 (See Figure E-1) of this MRP for the following parameters:

Minimum **Units Notes Parameter** Sample Type Sampling Frequency Grab at CFU/100 mL or Annually Total coliform surface and a, b MPN/100mL (summer) midwater Grab at CFU/100 mL or Annually Fecal coliform surface and a, b MPN/100mL (summer) midwater Grab at CFU/100 mL or Annually surface and Enterococcus a, b MPN/100mL (summer) midwater

Table E-10. Inshore Microbiological Monitoring Requirements

Footnotes for Table E-10:

- a. The annual sample shall be collected in the summer quarter (July-September).
- b. Pollutants shall be analyzed using the analytical methods described in 40 CFR § 136; or where no methods are specified for a given pollutant, by methods approved by the Los Angeles Water Board, the State Water Board, and USEPA Region 9. For any pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the Ocean Plan, the analytical method with the lowest ML must be selected.

End of footnotes for Table E-10

8.2. Offshore Water Quality Monitoring

This monitoring is designed to determine if Ocean Plan and Basin Plan objectives for physical and chemical parameters and bacteria are being met. Water quality data collected provide the information necessary to demonstrate compliance with the water quality standards. In addition, data collected by the City of Los Angeles contribute to the Central Bight Cooperative Water Quality Survey. This regionally coordinated survey provides integrated water quality surveys on a quarterly basis and covers more than 200 kilometers of coast in Ventura, Los Angeles, Orange, and San Diego Counties, from the nearshore to approximately 10 kilometers offshore. This cooperative program contributes to a regional understanding of seasonal patterns in water column structure. The regional view provides context for determining the significance and causes of locally observed patterns in the area of wastewater outfalls.

8.2.1. The Permittee shall monitor the 54 offshore stations listed in Table E-2 for the following parameters:

ATTACHMENT E – MRP TENTATIVE ORDER: 8/30/2022

Table E-11. Offshore Water Quality Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Dissolved oxygen	mg/L	continuous profile	Quarterly	a, b
Temperature	°C	continuous profile	Quarterly	a, b
Salinity	ppt	continuous profile	Quarterly	a, b
Transmissivity	% Transmittance	continuous profile	Quarterly	a, b
Chlorophyll a	mg/L	continuous profile	Quarterly	a, b
рН	pH units	continuous profile	Quarterly	a, b
Ammonia	mg/L	discrete sampling at specified depth	Quarterly	b, c
Fecal coliform	CFU/100 mL or MPN/100mL	discrete sampling at specified depth	Quarterly	b, c
Total coliform	CFU/100 mL or MPN/100mL	discrete sampling at specified depth	Quarterly	b, c
Enterococcus	CFU/100 mL or MPN/100mL	discrete sampling at specified depth	Quarterly	b, c
Visual observations			Quarterly	d

Footnotes for Table E-11:

- a. Depth profile measurements shall be obtained using multiple sensors to measure parameters through the entire water column (from the surface to as close to the bottom as practicable).
- b. Pollutants shall be analyzed using the analytical methods described in 40 CFR § 136; or where no methods are specified for a given pollutant, by methods approved by this Regional Water Board, the State Water Board, and USEPA Region 9. For any

pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the Ocean Plan, the analytical method with the lowest ML must be selected.

- c. Discrete sampling for ammonia nitrogen, fecal coliform, total coliform, and *Enterococcus* shall be performed below the surface within 1 meter (3.1 feet) and at 15 meters (49.2 feet), 30 meters (98.4 feet), and 45 meters (147.6 feet), or as deep as practicable for those stations located in depths less than 45 meters.
- d. Receiving water observations of any discoloration, turbidity, odor, and unusual or abnormal amounts of floating or suspended matter in the water or on the beach, rocks, jetties, or beach structures, shall be made and recorded at stations. The character and extent of such matter shall be described. The dates, times, and depths of sampling and these observations shall also be reported. Recreational use at time of sampling, within a 100-meter radius of each sample location, shall also be recorded and submitted with results. Recreational uses include, but are not limited to, swimming, wading, water-skiing, skin-diving, surfing, and fishing.

End of footnotes for Table E-11

- 8.2.2. Sampling Design Fifty-five offshore water quality stations shall be sampled quarterly by a CTD profiler (see Figure E-2). Water quality methods and protocols shall follow those described in the most current edition of the Field Operations Manual for Marine Water Column, Benthic, and Trawl Monitoring in Southern California. Visual observations shall be recorded at each station.
 - Concurrent with the CTD profiling survey, discrete samples shall be collected quarterly at all 21 offshore discrete sampling stations of the Central Bight Cooperative Water Quality Survey for ammonia and fecal coliform, total coliform and *Enterococcus* at fixed depths of 1, 15, 30, and 45 meters (or as deep as practicable for those stations located in depths less than 45 m) as noted in Table E-2.
- 8.2.3. Whenever there is any effluent discharge to the 1-Mile Outfall (Discharge Point 001), the following additional offshore sampling shall be conducted at Station A-2 (see Benthic and Trawl Stations table in Benthic Sediments Monitoring under Table E-3 and Figure E-3) and two additional stations within approximately 50 meters of Discharge Point 001:

Table E- 12. Additional Offshore Water Quality Monitoring Requirements-1-Mile Outfall (Discharge Point 001)

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Total chlorine residual	mg/L	Grab	Once per discharge day	a, b, c

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Fecal coliform	CFU/100 mL or MPN/100mL	Surface & Bottom Grab	Once per discharge day	c, d
Total coliform	CFU/100 mL or MPN/100mL	Surface & Bottom Grab	Once per discharge day	c, d
Enterococcus	CFU/100 mL or MPN/100mL	Surface & Bottom Grab	Once per discharge day	c, d

Footnotes for Table E-12:

- a. Discrete sampling for ammonia nitrogen, fecal coliform, total coliform, *Enterococcus*, and total residual chlorine shall be performed below the surface within 1 meter (3.1 feet) and at 15 meters (49.2 feet), 30 meters (98.4 feet), and 45 meters (147.6 feet), or as deep as practicable for those stations located in depths less than 45 meters.
- b. The "Daily Maximum" value shall be reported during periods of discharge.
- c. Pollutants shall be analyzed using the analytical methods described in 40 CFR § 136; or where no methods are specified for a given pollutant, by methods approved by this Regional Water Board, the State Water Board, and USEPA Region 9. For any pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the Ocean Plan, the analytical method with the lowest ML must be selected.
- d. Bottom sampling shall be conducted within 2 meters (6.6 feet) of the seabed.

End of footnotes for Table E-12

8.3. Benthic Infauna and Sediment Chemistry Monitoring

8.3.1. Local Benthic Trends Survey

This survey is designed to determine if benthic conditions under the influence of the discharge are changing over time. The data collected are used for regular assessment of trends in sediment contamination and biological response along a fixed grid of sites within the influence of the discharge.

<u>Sampling Design</u> - Benthic infauna and sediment chemistry monitoring stations in Table E-3 shall be sampled in summer (July – September) for the parameters in Table E-12. Separate samples shall be collected for benthic infauna and sediment chemistry.

Forty-four benthic monitoring stations (24 fixed stations plus one set of 20 random stations) shall be sampled annually for benthic infauna community analysis. Community analysis of the benthic infauna shall include the number of species, number of individuals per species, total numerical abundance per station, benthic response index (BRI) and biological indices, plus utilize appropriate regression analyses, parametric and

nonparametric statistics, and multivariate techniques or other appropriate analytical techniques. Random station sets A (Figure E-3) and B (Figure E-4) shall be sampled in alternate years. The entire contents of each sample shall be passed through a 1.0-millimeter screen to retain the benthic organisms. Sampling methods and protocols shall follow those described in the most current edition of the Field Operations Manual for Marine Water Column, Benthic, and Trawl Monitoring in Southern California.

For benthic infauna community analysis, the following determinations shall be made at each station, where appropriate: Identification of all organisms to lowest possible taxon based on morphological taxonomy; community analysis; mean, range, standard deviation, and 95% confidence limits, if appropriate, for value determined in the community analysis. In community analysis, pollutants shall be analyzed using the analytical methods described in 40 CFR § 136; or where no methods are specified for a given pollutant, by methods approved by the Los Angeles Water Board, the State Water Board, and USEPA Region 9. For any pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the Ocean Plan, the analytical method with the lowest ML must be selected. The Permittee shall conduct additional statistical analyses to determine temporal and spatial trends in the marine environment.

Forty-four benthic monitoring stations (24 fixed stations plus one set of 20 random stations) shall also be sampled annually for Grain Size (sufficiently detailed to calculate percent weight in relation to phi size) and TOC; random station sets A and B shall be sampled in alternate years. Four benthic monitoring stations (RW- C1, C6, Z2, and E6) shall be sampled annually for ammonia nitrogen, acid volatile sulfides, dissolved sulfides and organic nitrogen. Nine benthic monitoring stations (RW- Z2, C1, C3, C6, C7, C8, C9B, D1, and E6) shall be sampled annually for selected priority pollutants, acute sediment toxicity, and compounds on the 303(d) list for offshore Santa Monica Bay; see Table E-13. All 64 benthic monitoring stations (24 fixed stations plus both sets of 20 random stations) shall be sampled in year five of the Order/Permit for selected priority pollutants, and compounds on the 303(d) list for offshore Santa Monica Bay; see Table E-13. The 24 fixed benthic monitoring stations shall also be sampled in year five for acute sediment toxicity.

Table E- 13. Benthic Infauna and Sediment Chemistry Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Benthic Infauna		0.1 square meter Van Veen grab	Annually	а

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Grain Size	Phi size	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	а
Total organic carbon	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	а
Dissolved sulfides	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters, pore water)	Annually	а
Organic nitrogen	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	а
Arsenic	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a,
Cadmium	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a,
Chromium	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a,
Copper	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a,
Lead	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a,
Mercury	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a,
Nickel	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a,
Silver	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a,
Zinc	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a,

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
DDT	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a, b
PCBs Aroclors	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a, b
PCBs Congeners	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a, b
Acid Volatile Sulfides	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	а
Organophosphate (OP) Pesticides	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a, c
Ammonia, (as N)	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	а
PAHs	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a, b
Chlorinated Hydrocarbons	mg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	a, d
Acute Sediment Toxicity	% survival	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	а
Compounds on 303(d) list	μg/kg	0.1 square meter Van Veen grab (upper 2 centimeters)	Annually	а

Footnotes for Table E-13:

- a. Pollutants shall be analyzed using the analytical methods described in 40 CFR § 136; or where no methods are specified for a given pollutant, by methods approved by the Los Angeles Water Board, the State Water Board, and USEPA Region 9. For any pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the Ocean Plan, the analytical method with the lowest ML must be selected.
- b. See Attachment A for definition of terms.
- c. The OP pesticides required to be monitored include the following: chlorpyrifos, demeton, guthion, malathion, parathion, and diazinon.

d. Chlorinated hydrocarbons shall include aldrin, dieldrin, chlordane, heptachlor, heptachlor epoxide, endosulfan I, endosulfan II, and endosulfan sulfate.

End of footnotes for Table E-13

8.3.2. Acute Sediment Toxicity Monitoring

The Permittee shall conduct acute sediment toxicity monitoring as described above. Testing shall be conducted using one of the three amphipod species Eohaustorius estuarius, Leptocheirus plumulosus, and Rhepoxynius abronius in accordance with EPA 600/R-94/0925 (USEPA, 1994), Methods for Assessing the Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods, and the Southern California Bight Project sediment toxicity testing guidelines (Bight '13 Toxicology Committee, 2013). Test results shall be reported in percent survival, assessed for the presence of persistent toxicity, and the results shall be included in the annual monitoring report. If persistent toxicity is observed at a sediment sampling location, a Phase I TIE shall be conducted as defined in the Sediment Toxicity Identification (TIE) Phase I, II, and III Guidance Document (EPA/R-07/080). The Permittee shall submit a Sediment Toxicity TIE Work Plan within 90 days of the effective date of this Order/Permit. The work plan shall define persistent toxicity and outline the procedures that will take place if persistent toxicity is observed.

8.3.3. Regional Benthic Survey

This regional survey is designed to determine 1) the extent, distribution, magnitude and trend of ecological change in soft-bottom benthic habitats within the Southern California Bight and 2) the relationship between biological response and contaminant exposure. The data collected will be used to assess the condition of the sea-floor environment and the health of biological communities in the Bight.

<u>Sampling Design</u> – The most recent regional survey of benthic conditions within the Southern California Bight took place in 2018 (Bight '18). The final survey design was determined cooperatively by participants represented on the Regional Steering Committee. The Permittee provided support to the Bight '18 benthic survey by participating in or performing the following activities:

- a. Participation on the Steering Committee;
- b. Participation on relevant Technical Committees (e.g., Information Management, Field Methods & Logistics, Benthos, and Chemistry);
- c. Field sampling at sea;
- d. Infaunal sample analysis.
- e. Sediment chemistry analysis; and

f. Data management

This level of participation was consistent with that provided by the Permittee during the 2013, 2008, 2003, 1998, and 1994 Regional Benthic Surveys. The next regional survey is expected to take place in 2023 and the Permittee's level of participation shall be consistent with that provided in previous surveys.

8.4. Fish and Macroinvertebrate (Trawl and Rig Fishing) Monitoring

8.4.1. Local Demersal Fish and Macroinvertebrates Survey

This survey is designed to determine how the health of demersal fish and epibenthic invertebrate communities in the vicinity of the discharge are changing over time. The data collected are used for regular assessment of temporal trends in community structure along an array of sites within the influence of the discharge. Data will also be collected on trash and debris to contribute to the SMBRP's Sources and Loadings program.

<u>Sampling Design</u> - Ten trawl monitoring stations (7 fixed stations including RW- C-1, C- 3, C-6T, Z-2, Z-3, Z-4, and D-1T, plus one set of 3 random stations; see Table E-4) shall be sampled in winter (January – March) and summer (July – September) for demersal fish and epibenthic invertebrates, using 10-minute otter trawls. Random station sets A (Figure E-5), and B (Figure E-6) shall be sampled in alternate years. Sampling methods and protocols shall follow those described in the most current edition of the Field Operations Manual for Marine Water Column, Benthic, and Trawl Monitoring in Southern California.

All organisms captured shall be identified to the lowest possible taxon and counted. Fish shall be size-classed. Wet-weight biomass shall be estimated for all species. Each individual captured shall be examined for the presence of externally evident signs of disease or anomaly. Estimates of type, quantity, and weight of trash and debris in each trawl shall be made. Community analysis shall be conducted for fish and macroinvertebrates at each station. Mean, range, standard deviation, and 95% confidence limits, if appropriate, shall be reported for the values determined in the community analysis. Community analysis of fish and macroinvertebrates shall include wet weight of fish and macroinvertebrate species (when combined weight of individuals of one species exceed 0.1 kg), standard length of each individual fish, number of species, number of individuals per species, total numerical abundance per station, number of individuals in each 1-cm size class of each fish species, species abundance per trawl and per station, and biological indices, plus utilize appropriate regression analyses, parametric and nonparametric techniques, and multivariate techniques or other appropriate analytical techniques. The Permittee shall conduct additional statistical analyses to determine temporal and spatial trends in the marine environment.

8.4.2. Regional Demersal Fish and Invertebrate Survey

This regional survey is designed to determine 1) the extent, distribution, magnitude and trend of ecological change in demersal fish and epibenthic invertebrate communities within the Southern California Bight and 2) the relationship between biological response and contaminant exposure. The data collected will be used to assess the condition of the sea-floor environment and health of biological resources in the Bight.

Sampling Design - The most recent regional survey of trawl-caught demersal fish and epibenthic invertebrates within the Southern California Bight took place in 2018 (Bight '18). The final survey design was determined cooperatively by the participants as represented in the Regional Steering Committee. The Permittee provided support to the Bight '18 survey by participating in or performing the following activities:

- a. Participation on the Steering Committee;
- b. Participation on relevant Technical Committees (e.g., Information Management, Field Methods & Logistics, Fish & Invertebrates);
- c. Field sampling at sea;
- d. Tissue chemical analysis; and
- e. Data management.

This level of participation was consistent with that provided by the Permittee during the 2013, 2008, 2003, 1998, and 1994 Regional Benthic Surveys. The next regional survey is expected to occur in 2023 and the Permittee's level of participation shall be consistent with that provided in previous surveys.

8.4.3. Bioaccumulation and Seafood Safety Monitoring

a. Local Bioaccumulation Trends Survey

This survey is designed to determine if fish tissue contamination levels in the vicinity of the outfall are changing over time. The data collected are used for regular assessment of temporal trends in Hornyhead Turbot tissue. The Hornyhead Turbot is the preferred species; however, if the required numbers and sizes of Hornyhead Turbot are not available, the Permittee may use English Sole (*Parophrys vetulus*) as a substitute.

<u>Sampling Design</u> - Three survey sites (Table E-5) shall be sampled annually for the parameters in Table E-14. The composite sample for muscle tissue and the composite sample for liver tissue for a survey site can be taken from any station within that survey site.

Table E- 14. Local Bioaccumulation Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
% Moisture	%	Composite of <u>liver tissue</u> from 10 individuals of <u>Hornyhead Turbot</u>	Annually	a, b
% Moisture	%	Composite of <u>muscle tissue</u> from 10 individuals of <u>Hornyhead</u> <u>Turbot</u>	Annually	a, b
% Lipid	%	Composite of <u>liver tissue</u> from 10 individuals of <u>Hornyhead Turbot</u>	Annually	a, b
% Lipid	%	Composite of <u>muscle tissue</u> from 10 individuals of <u>Hornyhead</u> <u>Turbot</u>	Annually	a, b
Arsenic	mg/kg	Composite of <u>liver tissue</u> from 10 individuals of <u>Hornyhead Turbot</u>	Annually	a, b
Arsenic	mg/kg	Composite of <u>muscle tissue</u> from 10 individuals of <u>Hornyhead</u> <u>Turbot</u>	Annually	a, b
Selenium	mg/kg	Composite of <u>liver tissue</u> from 10 individuals of <u>Hornyhead Turbot</u>	Annually	a, b
Selenium	mg/kg	Composite of <u>muscle tissue</u> from 10 individuals of <u>Hornyhead</u> <u>Turbot</u>	Annually	a, b
Mercury	mg/kg	Composite of <u>liver tissue</u> from 10 individuals of <u>Hornyhead Turbot</u>	Annually	a, b
Mercury	mg/kg	Composite of <u>muscle tissue</u> from 10 individuals of <u>Hornyhead</u> <u>Turbot</u>	Annually	a, b,
DDT	mg/kg	Composite of <u>liver tissue</u> from 10 individuals of <u>Hornyhead Turbot</u>	Annually	a, b, c
DDT	mg/kg	Composite of <u>muscle tissue</u> from 10 individuals of <u>Hornyhead</u> <u>Turbot</u>	Annually	a, b, c

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
PCBs Aroclors	mg/kg	Composite of <u>liver tissue</u> from 10 individuals of <u>Hornyhead Turbot</u>	Annually	a, b, c
PCBs Aroclors	mg/kg	Composite of <u>muscle tissue</u> from 10 individuals of <u>Hornyhead</u> <u>Turbot</u>	Annually	a, b, c
PCBs Congeners	mg/kg	Composite of <u>liver tissue</u> from 10 individuals of <u>Hornyhead Turbot</u>	Annually	a, b, c
PCBs Congeners	mg/kg	Composite of <u>muscle tissue</u> from 10 individuals of <u>Hornyhead</u> <u>Turbot</u>	Annually	a, b, c

Footnotes for Table E-14:

- a. The Hornyhead Turbot is the preferred species; however, if the required numbers and sizes of Hornyhead Turbot are not available, the Permittee may use English Sole (*Parophrys vetulus*) as a substitute.
- b. Pollutants shall be analyzed using the analytical methods described in 40 CFR § 136; or where no methods are specified for a given pollutant, by methods approved by the Los Angeles Water Board, the State Water Board, and USEPA Region 9. For any pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the Ocean Plan, the analytical method with the lowest ML must be selected.
- c. See Attachment A for definition of terms.

End of footnotes for Table E-14

b. Local Seafood Safety Survey

This survey is designed to determine 1) if tissue concentrations of contaminants continue to exceed the Advisory Tissue Concentration (ATC) where seafood consumption advisories exist locally, and 2) tissue contaminant trends relative to the ATC in other species and for other contaminants not currently subject to local consumption advisories. The data collected will be used to provide information necessary for the management of local seafood consumption advisories.

Sampling Design - A regionally coordinated survey covering Santa Monica Bay employing the sampling design proposed by the SMBRC. During years one, three, and five of this Order/Permit, two survey sites (RW-BA-Z4 and RW-BA-Z5, see Table E-5 and Figure E-7) shall be sampled annually (late summer/early fall)—focusing on a consistent size class of fish—for the parameters in Table E-15. The composite sample

for muscle tissue for a survey site can be taken from any station within that survey site.

One species from each of five groups of fish (rockfish, kelp bass, sand bass, surfperches and croakers) shall be sampled from each of the two zones in years one, three and five. For rockfishes, California Scorpionfish (Scorpaena guttata) is the preferred species, followed by bocaccio (Sebastes paucispinis) and then by any other abundant and preferably benthic rockfish species. For surfperches, black perch (Embiotoca jacksoni) is the preferred species, followed by white sea perch (Phanerodon furcatus) and then by walleye surfperch (Hyperprosopon argenteum). For croakers, white croaker is the preferred species, followed by black croaker, and then by white seabass. If an insufficient number of croakers are collected and a significant effort has been made to collect the appropriate number of croakers, one of the following alternative species may be substituted: ocean whitefish (Caulolatilus princeps), opaleye (Girella nigricans), blacksmith (Chromis punctipinnis), or Pacific Chub Mackerel (Scomber japonicus).

Sampling should take place within the same season of the year (preferably late summer/early fall) and should focus upon a consistent size class of fish. All tissue samples shall be analyzed for:

Table E- 15. Local Seafood Safety Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
% Moisture	%	Composite of muscle tissue from 10 individuals of each of 5 species	Annually during years 1, 3 and 5	a, b
% Lipid	%	Composite of muscle tissue from 10 individuals of each of 5 species	Annually during years 1, 3 and 5	a, b
Arsenic	mg/kg	Composite of muscle tissue from 10 individuals of each of 5 species	Annually during years 1, 3 and 5	a, b
Selenium mg/kg		Composite of muscle tissue from 10 individuals of each of 5 species	Annually during years 1, 3 and 5	a, b

Parameter	Units	Sample Type	Minimum Sampling Frequency	Notes
Mercury	mg/kg	Composite of muscle tissue from 10 individuals of each of 5 species	Annually during years 1, 3 and 5	a, b
DDT	mg/kg	Composite of muscle tissue from 10 individuals of each of 5 species	Annually during years 1, 3 and 5	a, b, c
PCBs Aroclors	mg/kg	Composite of muscle tissue from 10 individuals of each of 5 species	Annually during years 1, 3 and 5	a, b, c
PCBs Congeners mg/kg		Composite of muscle tissue from 10 individuals of each of 5 species	Annually during years 1, 3 and 5	a, b, c

Footnotes for Table E-15:

- a. Community analysis of fish and macroinvertebrates shall include wet weight of fish and macroinvertebrate species (when combined weight of individuals of one species exceed 0.1 kg), standard length of each individual fish, number of species, number of individuals per species, total numerical abundance per station, number of individuals in each 1-cm size class of each fish species, species abundance per trawl and per station, and biological indices, plus utilize appropriate regression analyses, parametric and nonparametric techniques, and multivariate techniques or other appropriate analytical techniques.
- b. Pollutants shall be analyzed using the analytical methods described in 40 CFR § 136; or where no methods are specified for a given pollutant, by methods approved by the Los Angeles Water Board, the State Water Board, and USEPA Region 9. For any pollutant whose effluent limitation is lower than all the MLs specified in Appendix II of the Ocean Plan, the analytical method with the lowest ML must be selected.
- c. See Attachment A for definition of terms.

End of footnotes for Table E-15

c. Regional Seafood Safety Survey

This regional survey is designed to determine if seafood tissue levels within the Southern California Bight are below levels that ensure public safety. The data collected will be used to assess levels of contaminants in the edible tissue of commercial or recreationally important fish within the Bight relative to Advisory Tissue Concentrations.

Sampling Design - A regional survey of edible tissue contaminant levels in fish within the Southern California Bight shall be conducted at least once every ten years, encompassing a broader set of sampling sites and target species than those addressed in the local seafood survey. The last regional survey of fish tissue was conducted in 2018. The objective is to determine whether any unexpected increases or decreases in contaminant levels have occurred in nontarget species and/or at unsampled sites. The final survey design may be determined cooperatively by participants represented on a Regional Steering Committee or by the State of California's Office of Environmental Health and Hazard Assessment. The Permittee shall provide support to a Regional Seafood Safety Survey by participating in or performing the following activities:

- a. Participation on a Steering Committee;
- b. Participation on relevant Technical Committees (e.g., Information Management, Field Methods & Logistics, and Chemistry);
- c. Field sampling at sea;
- d. Tissue chemical analysis; and
- e. Data management

The Permittee's participation shall be consistent with that provided by the Permittee to similar regional seafood safety surveys.

d. Regional Bioaccumulation Survey

This regional survey is designed to determine if fish body burdens within the Southern California Bight are a health risk to higher trophic levels in the marine food web. The data collected will be used to estimate health risk to marine birds, mammals and wildlife from the consumption of fish tissue.

<u>Sampling Design</u> - The most regional survey of whole fish body burdens of contaminants within the Southern California Bight took place in 2013 (Bight '13). The final survey design was determined cooperatively by participants represented on the Regional Steering Committee. The Permittee provided support to the Bight '13 Bioaccumulation Survey by participating in or performing the following activities:

- a. Participation on the Steering Committee;
- b. Participation on relevant Technical Committees (e.g., Information Management, Field Methods & Logistics, and Chemistry);
- c. Field sampling at sea; and
- d. Tissue chemical analysis.

This level of participation was consistent with that provided by the Permittee to the 2008, 2003, and 1998 Regional Bioaccumulation/Predator Risk Survey. The next regional survey is expected to occur in 2023 and the Permittee's level of participation shall be consistent with that provided in previous surveys.

8.5. Kelp Bed Monitoring

This regional survey is designed to determine if the extent of kelp beds in the Southern California Bight are changing over time and if the rate of change differs between kelp beds. The data collected in this regional survey will be used to assess status and trends in kelp bed health and spatial extent. The regional nature of the survey will allow the status of kelp beds local to the discharge to be compared to regional trends.

The Permittee shall participate in the Central Region Kelp Survey Consortium (CRKSC) Monitoring Program to conduct regional kelp bed monitoring in Southern California coastal waters. The CRKSC design is based upon quarterly measures of kelp canopy extent using aerial imaging. The Permittee shall provide up to \$10,000 per year in financial support to the CRKSC (annual level of support will depend on the number of participants in the program). The Permittee shall participate in the regional management and technical committees responsible for the development of the survey design and the assessment of kelp bed resources in the Bight.

Participation in this survey provides data to the SMBRC's Kelp Beds program.

9. OTHER MONITORING REQUIREMENTS

9.1. Outfall and Diffuser Inspection

This survey is designed to ensure that the outfall structures are in serviceable condition and that they can continue to be operated safely. The data collected will be used for a periodic assessment of the integrity of the outfall pipes and ballasting system.

Each ocean outfall (001 and 002) shall be externally inspected a minimum of once per year. In addition, the 1-Mile Outfall diversion structure including the surge chamber shall be internally inspected a minimum of once per year prior to the beginning of the rainy season. The Permittee shall submit the Standard Operating Procedure (SOP) for inspecting the surge chamber and 1-Mile Outfall diversion structure to the Los Angeles Water Board and the USEPA within 90 days of the effective date of the Order/Permit. Inspections shall include general observations including any collection of debris within the diversion structure surge chamber, and photographic/videographic records of the exterior outfall pipes and adjacent ocean bottom. The pipes shall be visually inspected by a diver, manned submarine, or remotely operated vehicle. A summary report of the inspection findings shall be provided by August 1 following the year of the inspection. This written report, augmented with videographic and/or photographic

images, will provide a description of the observed condition of the discharge pipes from shallow water to their respective termini.

9.2. Stormwater Overflow/Spill Reporting

The Permittee shall report the frequency of all stormwater overflows/spills from the North, Central, and South Storm drains that result in discharges to the 1-Mile Outfall. A running summary table of the dates and times of each stormwater overflow/spill shall be reported in the annual report. This data will be used to determine the frequency of stormwater/spill discharges to the 1-Mile Outfall.

The Permittee shall develop and update protocols for emergency response communications. A copy of the protocols shall be available for Los Angeles Water Board and USEPA Region 9 review and inspection upon request. The updated protocols may include:

- a. After-action reports for preparation and distribution of after-action reports following any spill or emergency incident, identifying to the degree possible given the information available at the time potential causes, corrective actions, and recommendations for immediate responsive actions.
- b. Protocols for undertaking rapid bacteria testing in the event of a spill or emergency incident, to ensure the public has the most complete real time understanding of the scope of possible health threats until no longer necessary.
- c. Development of modeling techniques, within its jurisdiction, to determine how an overflow/spill will affect beach water quality in order to predict when beaches should be closed and if they should be closed before testing indicates high concentrations.

Status and progress of the development or update of the emergency response communication protocols shall be included in the annual report.

9.3. Biosolids and Sludge Management

The Permittee must comply with all Clean Water Act and regulatory requirements of 40 CFR § 257, 258, 501, and 503, including all applicable monitoring, record keeping, and reporting requirements. The Permittee must comply with the requirements in Attachment H of this Order/Permit.

9.4. Monitoring of Volumetric Data for Wastewater and Recycled Water

The State Water Board adopted *Water Quality Control Policy for Recycled Water* (Recycled Water Policy) on February 3, 2009 and amended the Recycled Water Policy on January 22, 2013 and December 11, 2018. The most recent amendments became effective on April 8, 2019. The Recycled Water Policy requires wastewater and recycled water dischargers to annually report monthly volumes of influent, wastewater produced, and effluent, including treatment level and discharge type. As applicable, dischargers are additionally required to annually report recycled water use by volume and category of reuse. The State

ATTACHMENT E – MRP TENTATIVE ORDER: 8/30/2022 Water Board issued a Water Code section 13267 and 13383 Order, Order WQ 2019-0037-EXEC, on July 24, 2019 to amend MRPs for all permits of NPDES, WDRs, WRRs, Master Recycling, and General WDRs. Annual reports are due by April 30 of each year, and the report must be submitted to GeoTracker. This Order/Permit implements the Recycled Water Policy by incorporating the volumetric monitoring reporting requirements in accordance with section 3 of the Recycled Water Policy

(https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/20 18/121118_7_final_amendment_oal.pdf). The State Water Board's Order WQ 2019-0037-EXEC will no longer be applicable to the Discharger upon the effective date of this Order/Permit.

- a. **Influent**: The Discharger shall monitor the monthly total volume of wastewater collected and treated by the wastewater treatment plant.
- b. **Production**: The Discharger shall monitor the monthly volume of wastewater treated, specifying the level of treatment.
- c. **Discharge**: The Discharger shall monitor the monthly volume of treated wastewater discharged to specific water bodies as categorized in the section 3.2.3 of the Recycled Water Policy. The level of treatment shall also be specified.
- d. Reuse: The Discharger shall monitor the monthly volume of recycled water distributed, and the annual volume of treated wastewater distributed for beneficial use in compliance with California Code of Regulations, Title 22 in each of the use categories specified in section 3.2.4 of the Recycled Water Policy.

10. REPORTING REQUIREMENTS

10.1. General Monitoring and Reporting Requirements

- 10.1.1. The Permittee shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
- 10.1.2. If there is no discharge during any reporting period, the report shall so state.
- 10.1.3. Each monitoring report shall contain a separate section titled Summary of Noncompliance, which discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with WDRs. This section shall clearly list all non-compliance with discharge requirements as well as all excursions of effluent limitations.
- 10.1.4. The Permittee shall inform the Los Angeles Water Board and USEPA Region 9 well in advance of any proposed construction or maintenance activity, or modification to the POTW, including any outfall port

- modifications, that could potentially affect compliance with applicable requirements.
- 10.1.5. The date and time of sampling (as appropriate) shall be reported with the analytical values determined.
- 10.1.6. The laboratory conducting analyses shall be certified by the State Water Resources Control Board DDW ELAP, in accordance with CWC section 13176, or approved by the Los Angeles Water Board Executive Officer, in consultation with the State Water Board's Quality Assurance Program, and USEPA for that particular parameter and must include QA/QC data in their reports. A copy of the laboratory certification shall be provided each time a new/renewal certification is obtained from ELAP and must be submitted with the annual summary report. Each monitoring report must affirm in writing that: "All analyses were conducted at a laboratory certified for such analyses by the State Water Resources Control Board Environmental Laboratory Accreditation Program or approved by the Los Angeles Water Board Executive Officer (in consultation with the State Water Board's Quality Assurance Program) and USEPA Region 9 Water Division Director, and in accordance with current USEPA guideline procedures or as specified in this MRP."
- 10.1.7. Non-detect levels reported for the Hyperion effluent are generally higher than effluent limitations or water quality objectives for DDT, chlordane, PCBs and PAHs. Therefore, the Permittee shall strive for lower analytical detection levels than those specified in Appendix II of the 2019 Ocean Plan to facilitate pollutant load quantification for the Santa Monica Bay DDT and PCBs TMDL.
- 10.1.8. Upon request by the Permittee, the Los Angeles Water Board, in consultation with the State Water Board's Quality Assurance Program and/or USEPA, may establish an ML that is not contained in Appendix II of the 2019 Ocean Plan, to be included in the Permittee's NPDES permit, in any of the following situations:
 - a. When the pollutant under consideration is not included in Appendix II;
 - b. When the Permittee agrees to use a test method that is more sensitive than those specified in 40 CFR § 136 (most recent revision);
 - c. When the Permittee agrees to use an ML lower than those listed in Appendix II;
 - d. When the Permittee demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Appendix II and proposes an appropriate ML for their matrix; or

- e. When the Permittee uses a method whose quantification practices are not consistent with the definition of an ML. Examples of such methods are the USEPA-approved method 1613 for dioxins and furans, method 1624 for volatile organic substances, and method 1625 for semi-volatile organic substances. In such cases, the Discharger, Los Angeles Water Board, State Water Board and USEPA shall agree on a lowest quantifiable limit, and that limit will substitute for the ML for reporting and compliance determination purposes.
- 10.1.9. Records and reports of marine monitoring surveys conducted to meet receiving water monitoring requirements shall include, at a minimum, the following information:
 - a. A description of climatic and receiving water characteristics at the time of sampling (weather observations, unusual or abnormal amounts of floating debris, discoloration, wind speed and direction, swell or wave action, time of sampling or measurements, tidal stage and height, etc.).
 - b. The date, exact place and description of sampling stations, including differences unique to each station (e.g., date, time, station location, depth, and sample type).
 - c. A list of the individuals participating in field collection of samples or data and description of the sample collection and preservation procedures used in the various surveys.
 - d. A description of the specific method used for laboratory analysis, the date(s) the analyses were performed and the individuals participating in these analyses.
 - e. An in-depth discussion of the results of the survey. All tabulations and computations shall be explained.
- 10.1.10. The Permittee 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 this Order/Permit.
- 10.1.11. The Permittee shall attach a cover letter to the monitoring reports. The information contained in the cover letter shall clearly identify violations of the Order/Permit; 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.

10.2. Self-Monitoring Reports (SMRs)

10.2.1. The Permittee shall electronically submit SMRs using the State Water Board's CIWQS website

- (http://www.waterboards.ca.gov/water_issues/programs/ciwqs/). The CIWQS website will provide additional information for SMR submittal in the event there will be a planned service interruption for electronic submittal.
- 10.2.2. The Permittee shall report in the SMR the results for all monitoring specified in this MRP under sections 3 through 9. The Discharger shall submit monthly, quarterly, semiannual, annual SMRs including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order/Permit. SMRs are to include all new monitoring results obtained since the last SMR was submitted. If the Discharger monitors any pollutant more frequently than required by this Order/Permit, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.
- 10.2.3. Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule, except where specific monitoring periods and reporting dates are required elsewhere in the Order/Permit:

Table E- 16. Monitoring Periods and Reporting Schedule

Sampling Frequency	Monitoring Period Begins on	Monitoring Period	SMR Due Date
Continuous	Order/Permit effective date	All	Submit with monthly SMR
Hourly	Order/Permit effective date	Hourly	Submit with monthly SMR
Daily	Order effective date	(Midnight through 11:59 PM) or any 24-hour period that reasonably represents a calendar day for purposes of sampling.	Submit with monthly SMR
Weekly	Sunday following Order effective date or on Order/Permit effective date if on a Sunday	Sunday through Saturday	Submit with monthly SMR
Monthly	First day of calendar month following permit effective date or on Order/Permit effective date if that date is first day of the month	1 st day of calendar month through last day of calendar month	By the 15 th day of the third month after the month of sampling

Sampling Frequency	Monitoring Period Begins on	Monitoring Period	SMR Due Date
Quarterly	Closest of January 1, April 1, July 1, or October 1 following (or on) Order/Permit effective date	January 1 to March 31 April 1 to June 30 July 1 to September 30 October 1 to December 31	June 15 September 15 December 15 March 15
Semiannually	Closest of January 1 or July 1 following (or on) Order/Permit effective date	January 1 to June 30 July 1 to December 31	September 15 March 15
Annually	January 1 following (or on) permit effective date	January 1 through December 31	April 30
Annually (volumetric reporting)	Order/Permit effective date	January 1 through December 31	April 30
Annually (Pretreatment Program)	Order/Permit effective date	January 1 through December 31	April 30
Receiving Water Summary Report	Order/Permit effective date	January 1 through December 31	August 1
Receiving Water Biennial Report	Order/Permit effective date	January 1 through December 31 of the following year	August 1
Outfall Inspection Report	Order/Permit effective date	January 1 through December 31	August 1

10.2.4. Reporting Protocols. The Permittee shall report with each sample result the applicable RML (also known as the RL) and the current MDL, as determined by the procedure in 40 CFR part 136.

The Permittee 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 reported ML shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
- b. Sample results less than the reported ML, 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 (± 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.
- 10.2.5. Compliance Determination. Compliance with effluent limitations for reportable pollutants shall be determined using sample reporting protocols defined above and Attachment A and section 8 of this Order/Permit. For purposes of reporting and administrative enforcement by the Los Angeles Water Board, State Water Board, and USEPA Region 9, 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 RML.
- 10.2.6. **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 Permittee 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.

- 10.2.7. The Permittee shall submit SMRs in accordance with the following requirements:
 - a. The Permittee shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations. The Discharger is not required to duplicate the submittal of data that is entered in a tabular format within CIWQS. When electronic submittal of data is required and CIWQS does not provide for entry into a tabular format within the system, the Discharger shall electronically submit the data in a tabular format as an attachment.

10.3. Discharge Monitoring Reports (DMRs)

10.3.1. DMRs are USEPA reporting requirements. The Discharger shall electronically certify and submit DMRs together with SMRs using Electronic Self-Monitoring Reports module eSMR 2.5 or any upgraded version. Electronic DMR submittal shall be in addition to electronic SMR submittal. Information about electronic DMR submittal is available at the DMR website:

(http://www.waterboards.ca.gov/water_issues/programs/discharge_monitoring).

10.4. Other Reports

10.4.1. Annual Pretreatment Reporting

The Permittee shall electronically submit annual pretreatment reports via CIWQS to the Los Angeles Water Board and to USEPA Region 9 via email (r9pretreatment@epa.gov) by April 30 of each year, covering data collected during the previous calendar year, in accordance with Pretreatment Reporting Requirements (Attachment I).

10.4.2. The Permittee shall report the results of any special studies, chronic toxicity testing, TRE/TIE, PMP, and Pollution Prevention Plan required by Special Provisions – section 7.3.9 of this Order/Permit. The Discharger shall submit reports in compliance with the SMR reporting requirements described in MRP subsection 10.2 above.

10.4.3. Hauling Reports

- a. In the event wastes are transported to a different disposal site during the reporting period, the following shall be reported:
 - i. Types of wastes and quantity of each type;
 - ii. Name and either the address or the State registration number for each hauler of wastes (or the method of transport if other than by hauling); and

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

10.4.4. Annual Summary Report

By April 30 of each year, the Permittee shall submit an annual report containing a discussion of the previous year's influent/effluent analytical results (including the average and peak flow for the year), Santa Monica Bay shoreline bacterial monitoring data, and a recycled water progress report describing any updates to the development of increased recycled water production. The annual report shall contain an overview of any plans for upgrades to the treatment plant's collection system, the treatment processes, the outfall system, or any changes that may affect the quality of the final effluent. In addition, a running summary table (including data from the current year and previous years) of the dates and times that the North, South and Central Storm Drain Sumps overflowed into the 1-mile outfall is also required. The Permittee shall submit annual reports to the Los Angeles Water Board and USEPA in accordance with the requirements described in MRP subsection 10.2.7 above.

Each annual monitoring report shall contain a separate section titled "Reasonable Potential Analysis" which discusses whether reasonable potential was triggered for pollutants which do not have a final effluent limitation in the NPDES permit. This section shall contain the following statement: "The analytical results for this sampling period did/ did not trigger reasonable potential." If reasonable potential was triggered, then the following information shall also be provided:

- a. A list of the pollutant(s) that triggered reasonable potential;
- b. The Ocean Plan criteria that was exceeded for each given pollutant;
- c. The concentration of the pollutant(s);
- d. The test method used to analyze the sample; and
- e. The date and time of sample collection.

10.4.5. Receiving Water Monitoring Report

An annual summary of the receiving water monitoring data collected during each sampling year (January-December) shall be prepared and submitted so that it is received by the Los Angeles Water Board and USEPA by August 1st of the following year. This annual summary shall include a compliance summary and discussion of plant performance over the year as well as a brief discussion of the monitoring results.

A detailed Receiving Water Monitoring Biennial Assessment Report of the data collected during the two previous calendar sampling years (January-December) shall be prepared and submitted so that it is received by the Los Angeles Water Board and USEPA Region 9 by August 1st of every other year. This report shall include an annual data summary, a description of the nearfield zone, and an in-depth analysis of the biological and chemical data following recommendations in Design of 301(h) Monitoring Programs for Municipal Wastewater Discharges to Marine Water (EPA, November 1982; 430/982-010; pages 74-91) and the Model Monitoring Program Guidance Document (Schiff, K.C., J.S. Brown and S.B. Weisberg, 2002. Model Monitoring Program for Large Ocean Dischargers in Southern California. SCCWRP Tech. Rep #357. SCCWRP, Westminster, CA. 101 pp.). Data shall be tabulated, summarized, graphed where appropriate, analyzed, interpreted, and generally presented in such a way as to facilitate ready understanding of its significance. Spatial and temporal trends shall be examined and compared. The relationship of physical and chemical parameters shall be evaluated. See also Section VIII of this MRP. All receiving water monitoring data shall be submitted in accordance with the California Environmental Data Exchange Network (CEDEN).

The Permittee shall also update the effluent and receiving water data in the evaluation of ocean degradation, pursuant to 40 CFR 125.123 and in the biological evaluation pursuant to Section 7 of the Endangered Species Act (ESA). These reports shall be submitted with the Permittee's application for renewal of this Permit/Order. USEPA Region 9 will use the information, in whole or in part, to determine whether permit reauthorization is likely to cause unreasonable degradation of the marine environment or is likely to affect the continued existence of species protected by the ESA, or adversely modify their habitat.

- 10.4.6. The Permittee shall submit to the Los Angeles Water Board and USEPA, together with the first monitoring report required by this permit, a list of all chemicals and proprietary additives which could affect this waste discharge, including quantities of each. Any subsequent changes in types and/or quantities shall be reported promptly.
- 10.4.7. Santa Monica Bay Bacteria Total Maximum Daily Load Reporting Requirement

The City of Los Angeles monitors bacteria at the Santa Monica Bay shoreline stations described in the *Santa Monica Bay Beaches Bacteria TMDLs*. This monitoring requirement is necessary to meet the requirements outlined in the Santa Monica Bay Beaches Bacteria TMDLs. Although duplicative sampling is not required, the Permittee shall upload monthly and annual Portable Document Format (PDF) reports to the California Integrated Water Quality System (CIWQS) summarizing the Santa Monica Bay Beaches Bacteria TMDL-based monitoring results and confirming that the final effluent has not

contributed to any shoreline exceedances. The PDF reports shall be submitted concurrently with the NPDES monthly and annual reports.

10.4.8. SOP for Inspecting the Surge Chamber and 1-Mile Outfall Division Structure

The Permittee shall submit the Standard Operating Procedure (SOP) for inspecting the surge chamber and 1-Mile Outfall diversion structure to the Los Angeles Water Board and the USEPA within 90 days of the effective date of the Order/Permit. Refer to MRP section 9.1 for detailed requirements.

10.4.9. Outfall Inspection Report

By August 1 of each year, a summary report of the outfall Inspection findings for the previous calendar year shall be prepared and submitted to the Los Angeles Water Board and USEPA. This written report, augmented with videographic and/or photographic images, shall provide a description of the observed external condition of the discharge pipes from shallow water to their respective termini, and a description of the internal condition of the 1-Mile Outfall diversion structure including the surge chamber.

10.4.10. Technical Report on Preventive and Contingency Plans

The Los Angeles Water Board requires the Permittee to file with the Los Angeles Water Board and USEPA, within 90 days after the effective date of this Order/Permit, a technical report on its preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. The technical report should:

- a. Identify the possible sources of accidental loss, untreated waste bypass, and contaminated drainage. 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 state when they become operational.
- c. Describe facilities and procedures needed for effective preventive and contingency plans.
- d. Predict the effectiveness of the proposed facilities and procedures and provide an implementation schedule contingent interim and final dates when they will be constructed, implemented, or operational.

10.4.11. 1-Mile Outfall Effluent Discharge Reports

The Permittee shall electronically submit to the Los Angeles Water Board a written summary report of each effluent discharge to the 1-Mile Outfall within 5 days of the completion of the discharge. Each report shall include at a minimum, the rationale for the discharge; the date, time, and duration of the discharge; the flow rate and volume discharged; the type of water discharged; and confirmation that the required monitoring was conducted during the discharge event. If the discharge endangers human health or the environment, the report shall be submitted within 24 hours of the completion of the discharge.

10.4.12. Climate Change Effects Vulnerability Assessment and Mitigation Plan:

The Permittee shall consider the impacts of climate change as they affect the operation of the treatment facility due to flooding, wildfires, or other climate-related changes. The Permittee shall develop a Climate Change Effects Vulnerability Assessment and Mitigation Plan (Climate Change Plan) to assess and manage climate change-related effects that may impact the wastewater treatment facility's operation, water supplies, its collection system, and water quality, including any projected changes to the influent water temperature and pollutant concentrations, and beneficial uses. For facilities that discharge to the ocean including desalination plants, the Climate Change Plan shall also include the impacts from sea level rise. The Climate Change Plan is due 12 months after the effective date of this Order/Permit.

10.4.13. Initial Investigation TRE Work Plan

The Permittee shall prepare and submit a copy of the Permittee's initial investigation TRE work plan to the Executive Officer of the Los Angeles Water Board and the USEPA Water Division Director for approval within 90 days of the effective date of this permit. If the Executive Officer and the Water Division Director do not disapprove the work plan within 60 days, the work plan shall become effective. The Permittee shall use USEPA manual EPA/833B-99/002 (municipal) as guidance, or most current version, or EPA manual Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations (EPA/600/2-88/070, April 1989). At a minimum, the TRE Work Plan must contain the provisions in Attachment G. This work plan shall describe the steps that the Permittee intends to follow if toxicity is detected. Refer to MRP section 5.6 for detailed requirements.

10.4.15. Sediment Toxicity TIE Work Plan

The Permittee shall conduct acute sediment toxicity monitoring. If persistent toxicity is observed at a sediment sampling location, a Phase I TIE shall be conducted as defined in the Sediment Toxicity Identification (TIE) Phase I, II, and III Guidance Document (EPA/R-07/080). The Permittee shall submit a Sediment Toxicity TIE Work

Plan within 90 days of the effective date of this Order/Permit. Refer to MRP section 8.3.2 for detailed requirements.

10.4.16. CEC Monitoring Report

The Permittee shall submit the flame retardant and PFAS monitoring results annually no later than June 30 of the year following sampling to CIWQS as a standalone report.

In addition to submitting monitoring results to CIWQS, the Discharger shall submit results of all flame retardant and PFAS monitoring electronically or by mail to USEPA and NMFS at:

NMFS WCR Protected Resources Division's Long Beach Office Branch Chief: Electronically: Penny.Ruvelas@noaa.gov

By mail: NMFS West Coast Region 501 West Ocean Boulevard, Suite 4200 Long Beach, California 90802

USEPA Region 9, Water Division, NPDES Permits Office Chief:

Electronically: R9NPDES@epa.gov and sablad.elizabeth@epa.gov.

10.4.17. Annual Volumetric Reporting of Wastewater and Recycled Water

The Discharger shall electronically submit annual volumetric reports to the State Water Board by April 30 each year covering data collected during the previous calendar year using the State Water Board's GeoTracker website (geotracker.waterboards.ca.gov) under a site-specific global identification number. The annual volumetric report shall include information specified in section 9.3, above. A report upload confirmation from the GeoTracker shall be included in the annual report, which shall be submitted into CIWQS, by the report due date to demonstrate compliance with this reporting requirement.

ATTACHMENT E – MRP TENTATIVE ORDER: 8/30/2022

ATTACHMENT F – FACT SHEET TABLE OF CONTENTS

1.	PERMIT INFORMATION	F-3
2.	BACKGROUND - CONSENT DECREE AND LEGAL ISSUES	
3.	FACILITY DESCRIPTION	F-7
	3.1. Description of Wastewater and Biosolids Treatment and Controls	F-7
	3.2. Discharge Points and Receiving Waters	.F-11
	3.3. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data	.F-12
	3.4. Compliance Summary	
	3.5. Discharge Plume	.F-19
	3.6. Receiving Water Description	.F-20
	3.7. Planned Changes	
4.	APPLICABLE PLANS, POLICIES, AND REGULATIONS	.F-22
	4.1. Legal Authorities	
	4.2. California Environmental Quality Act (CEQA)	
	4.3. State and Federal Laws, Regulations, Policies, and Plans	.F-22
	4.4. Other Plans, Polices and Regulations	
5.	RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATION	ONS
	5.1. Discharge Prohibitions	
	5.2. Technology-Based Effluent Limitations	
	5.3. Water Quality-Based Effluent Limitations (WQBELs)	.F-37
	5.4. Final Effluent Limitation Considerations	
	5.5. Interim Effluent Limitations (Not Applicable)	
	5.6. Land Discharge Specifications (Not Applicable)	
	5.7. Recycling Specifications	
	PERFORMANCE GOALS	
7.	RATIONALE FOR RECEIVING WATER LIMITATIONS	
	7.1. Surface Water	
_	7.2. Groundwater (Not Applicable)	
	MASS EMISSION BENCHMARKS	
9.	RATIONALE FOR PROVISIONS	
	9.1. Standard Provisions	
	9.2. Special Provisions	
1(D. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS	
	10.1. Influent Monitoring	
	10.2. Effluent Monitoring	
	10.3. Whole Effluent Toxicity Testing Requirements	
	10.4. Receiving Water Monitoring	
	10.5. Other Monitoring Requirements	.F-70
11	1. CONSIDERATION OF NEED TO PREVENT NUISANCE AND WATER CODE	
	ECTION 13241 FACTORS	
12	2. PUBLIC PARTICIPATION	
	12.1. Notification of Interested Parties	.⊦-73

CITY OF LOS ANGELES HYPERION WATER RECLAMATION PLANT

ORDER XX-XXXX-XXX NPDES NO. CA0109991

12.2. Written Comments	
12.3. Public Hearing	
12.4. Review of Waste Discharge Requirements	
12.5. Federal NPDES Permit Appeals	
12.6. Information and Copying	
12.7. Register of Interested Persons	
12.8. Additional Information	F-/0
TABLE OF TABLES	
TABLE F- 1. FACILITY INFORMATION	F-3
TABLE F- 2. EFFLUENT LIMITATIONS IN ORDER NUMBER R4-2017-0045 AND	
HISTORICAL MONITORING DATA AT EFF-002	F-14
TABLE F- 3. LIST OF NON-COMPLIANCE	
TABLE F- 4. BASIN PLAN BENEFICIAL USES	
TABLE F- 5. OCEAN PLAN BENEFICIAL USES	
TABLE F- 6. SUMMARY OF TBELS IN 40 CFR §133.102	F-35
TABLE F- 7. SUMMARY OF TBELS FOR POTWS ESTABLISHED BY THE 2019	
OCEAN PLAN	F-35
TABLE F- 8. SUMMARY OF TBELS FOR THE HYPERION WRP	F-36
TABLE F- 9. BACKGROUND SEAWATER CONCENTRATIONS (C _s)	
TABLE F- 10. 2019 OCEAN PLAN WQOS (C₀) FOR COPPER AND AMMONIA	
TABLE F- 11. SUMMARY OF FINAL EFFLUENT LIMITATIONS FOR DISCHARGE	
POINT 002	
TABLE F- 12. SUMMARY OF FINAL EFFLUENT LIMITATIONS FOR DISCHARGE	
POINT 001	
TABLE F- 13. EFFLUENT MONITORING FREQUENCY COMPARISON	

ATTACHMENT F - FACT SHEET

As described in section 2.2 of this Order/Permit, the Los Angeles Water Quality Control Board (Los Angeles Water Board) and the United States Environmental Protection Agency (USEPA) Region 9 incorporates this Fact Sheet as findings of the Los Angeles Water Board and USEPA Region 9 supporting the issuance of this Order/Permit. This Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order/Permit.

This Order/Permit 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/Permit that are specifically identified as "not applicable" have been determined not to apply to this Permittee. Sections or subsections of this Order/Permit not specifically identified as "not applicable" are fully applicable to this Permittee.

1. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

Table F- 1. Facility Information

	-		
WDID	4B190106002		
Discharger	City of Los Angeles		
Name of Facility	Hyperion Water Reclamation Plant		
Facility Address	12000 Vista del Mar Blvd. Playa del Rey, CA 90293 Los Angeles County		
Facility Contact, Title and Phone	Timeyin Dafeta, Plant Manager, (310) 648-5555		
Authorized Person to Sign and Submit Reports	Barbara Romero, Director, (213) 485-2210		
Mailing Address	12000 Vista del Mar Boulevard, Playa del Rey, CA 90293		
Billing Address	1149 S. Broadway, 9th Floor, Los Angeles, CA 90015		
Type of Facility	Publicly Owned Treatment Works		
Major or Minor Facility	Major		
Threat to Water Quality	1		
Complexity	A		
Pretreatment Program	Yes		
Reclamation Requirements	Producer		
Facility Permitted Flow	450 million gallons per day		
Facility Design Flow	450 million gallons per day		
Watershed	Santa Monica Bay Watershed Management Area		
Receiving Water	Pacific Ocean		
Receiving Water Type	Ocean waters		

- 1.1. The City of Los Angeles (hereinafter Permittee or Discharger) is the owner and operator the Hyperion Water Reclamation Plant (hereinafter Hyperion WRP or Facility), a Publicly Owned Treatment Works (POTW). USEPA Region 9 and the Los Angeles Water Board have classified the Hyperion WRP as a major discharger. It has a Threat to Water Quality and Complexity rating of 1-A pursuant to California Code of Regulations (CCR), title 23, section 2200.
 - For the purposes of this Order/Permit, references to the "Discharger" or "Permittee" in applicable federal and state laws, regulations, plans, or policy are held to be equivalent to references to the Discharger herein.
- 1.2. The Facility discharges wastewater to the Pacific Ocean, a water of the United States and of the State of California. The Discharger was previously regulated by Order R4-2017-0045 and National Pollutant Discharge Elimination System (NPDES) Permit Number CA0109991, adopted on February 2, 2017 and which became effective on April 1, 2017. This Order/Permit expired on March 31, 2022.
 - Regulations at 40 CFR section 122.46 limit the duration of NPDES permits to a fixed term not to exceed five years. Accordingly, Table 3 and Table 4 of this Order/Permit limits the duration of the discharge authorization. However, pursuant to California Code of Regulations, title 23, section 2235.4, the terms and conditions of an expired permit are automatically continued pending reissuance of the permit if the Discharger complies with all federal NPDES requirements for continuation of expired permits. The Permittee filed a report of waste discharge and submitted an application for reissuance of its WDRs and NPDES permit on September 27, 2021. Supplemental information was requested on October 15, 2021 and received on November 15, 2021. The application was deemed complete on November 19, 2021. A site visit was conducted on August 11, 2022, to observe operations and collect additional data to develop permit limitations and conditions. The terms and conditions of the current NPDES order have been automatically continued and remain in effect until new WDRs and NPDES permit are adopted pursuant to this Order/Permit. Attachment B provides a map of the area around the Facility. Attachment C1 provides a flow schematic of the Facility.
- 1.3. **Dilution Credits**. The most recent dilution study used water quality data from between February 2004 and May 2015. Since there have not been any significant changes to the quality of the discharge or the ambient conditions since Order Number R4-2017-0045 was adopted in February 2017, this Order/Permit includes the same dilution ratios included in Order Number R4-2017-0045: dilution ratios of 96:1 (ammonia and chronic toxicity) and 84:1 (other pollutants) for the 5-Mile outfall discharge and the dilution ratio of 13:1 for the 1-Mile outfall discharge.

2. BACKGROUND - CONSENT DECREE AND LEGAL ISSUES

- 2.1. The operations and discharges from the Hyperion Treatment Plant and Hyperion collection system are also regulated under the following enforcement actions:
 - a. Amended Consent Decree entered on February 19, 1987, in United States and State of California v. City of Los Angeles, Number CV 77-3047-HP (C.D. Cal.);
 - b. Settlement Agreement, Los Angeles Superior Court Case Number C 665238, dated January 29, 1990, in State of California v. City of Los Angeles; and
 - c. Los Angeles Water Board Cease and Desist Order 98-073 adopted on September 14, 1998, amended by Order Number 00-128 adopted on August 31, 2000.
- 2.2. In 1987, the Discharger entered into an Amended Consent Decree (Number CV 77-3047-HP) with USEPA and the Los Angeles Water Board. The Amended Consent Decree required the City under time schedules to undertake the following:
 - a. Eliminate the discharge of sewage sludge into the Pacific Ocean from Hyperion Treatment Plant by December 31, 1987 (status: completed);
 - b. Comply with interim effluent limitations (status: interim limits are not applicable as of January 1, 1999);
 - c. Complete construction and begin operation of the Hyperion Energy Recovery System by June 30, 1989 (status: completed, but determined to be a technological failure and abandoned);
 - d. Achieve and thereafter maintain compliance with full secondary treatment at Hyperion Treatment Plant by December 31, 1998 (status: completed and achieved compliance before the deadline); and
 - e. Prepare a storm water pollution reduction study and implement the recommended measures thereof (status: completed).
- 2.3. On June 7, 1991, the United States and the State of California filed a supplemental complaint under the existing Consent Decree CV 77-3047-HP (C.D. Cal.) for alleged pretreatment violations against the Discharger. Settlement of the complaint had been concluded and modification to the Consent Decree was entered into court records on August 7, 2000. The settlement requires the Discharger to implement the Westside Water Recycling Extension Project and the Santa Monica Bay Storm Drain Low-Flow Diversion Project. The Santa Monica Urban Runoff Recycling Facility (SMURRF), completed in 2000, is owned and operated by the City of Santa Monica. As the first full-scale, dryweather runoff recycling facility in the U.S., SMURRF reclaims dry-weather runoff from storm drains and treats the water for reuse in landscape irrigation and toilet flushing. Since the City of Los Angeles contributes about half of the runoff treated at SMURRF, the City of Los Angeles pays for half of the capital and

- operations and maintenance costs of SMURRF, pursuant to an agreement with the City of Santa Monica.
- 2.4. In October 1987, the California Attorney General, on behalf of the Los Angeles Water Board, filed a complaint with the Los Angeles Superior Court (Case Number C 665238) for civil penalties regarding unpermitted discharges to Discharge Point 001 and raw sewage overflows to surface waters from the Hyperion collection system. A settlement agreement was entered into on January 29, 1990. In lieu of civil penalties, the Discharger was required to implement 23 projects to improve and enhance its collection system and benefit the waters in the Greater Los Angeles Area. Twenty-two of the 23 Settlement Agreement projects were completed. The remaining project deals with the Los Angeles Zoo Wastewater Treatment Facility. Two of the original three elements of the Zoo project (construction of the retention basin and pump station for collection of the Zoo's wastewater and diversion to the North Outfall Sewer force main) were completed in 1995. The Discharger proposes to substitute Best Management Practices (BMPs) for the stormwater peripheral drainage system, the third element of the original design concept. After reviewing the study, the Los Angeles Water Board rejected the Discharger's proposal because the proposed BMPs cannot achieve the objectives of the original Settlement Agreement. In a letter dated November 5, 2008, the Los Angeles Water Board approved the Fremont High School Stormwater Improvements Project (Freemont Project) as a substitute for the remaining project, the Los Angeles Zoo Perimeter Drain System (PDS). The Los Angeles Water Board agreed that the PDS has ceased to be necessary due to the completion of the North-East interceptor Sewer and East Central Interceptor Sewer. The Freemont Project includes the implementation of the following five BMPs: Stormwater Diversion, Pollutant Settlement, Sediment Forebay, Dry Extended Detention/Retention Basin, and "Smart" (programmable) Irrigation System.
- 2.5. Sanitary sewer overflows (SSO) have been a recurring problem in certain areas of the City of Los Angeles; in particular, in the South-Central area, where sewers do not have adequate capacity to absorb inflow and infiltration that occurs during wet weather. For the entire City of Los Angeles, between the wet weather period of February 3, 1998 through May 14, 1998, there were 99 separate sanitary overflows resulting in 44 million gallons of raw sewage released. On September 14, 1998, the Los Angeles Water Board issued Cease and Desist Order (CDO) Number 98-073 to the City, amended by CDO Number 00-128 adopted on August 31, 2000. The CDO required the Discharger to provide adequate capacity to its wastewater collection system by constructing additional sewer alignments and/or upgrading the existing sewer system over a seven-year period (1998 to 2005). Additionally, on August 5, 2004, the United States, the State of California, Santa Monica Baykeeper, a coalition of community groups and the City of Los Angeles lodged a settlement that would resolve the parties' Clean Water Act and Porter-Cologne Act litigation regarding the City of Los Angeles' SSOs and sewage odors. This settlement underwent public review and comment. The

Settlement Agreement and Final Order was filed on October 28, 2004 and entered by the District Court on October 29, 2004, and is now being implemented. The Settlement Agreement and Final Order establish a ten-year program designed to reduce SSOs and sewage odors to the maximum extent feasible.

3. FACILITY DESCRIPTION

3.1. Description of Wastewater and Biosolids Treatment and Controls

The Permittee owns and operates the Hyperion WRP located at 12000 Vista del Mar Boulevard, Playa del Rey, California. The plant was designed to accommodate both dry and wet weather days with a maximum daily flow of 450 million gallons per day (MGD) and peak wet weather flow of 850 MGD. Due to antidegradation and anti-backsliding considerations, the mass-based effluent limits continue to be based on a 420 MGD influent design flow rate. In 2020, the Hyperion WRP treated an average effluent flow of approximately 215 MGD and approximately 36 MGD of the secondary treated effluent was sent to West Basin's Edward C. Little Water Recycling Plant for advanced treatment and reuse. The Hyperion WRP is part of a joint outfall system commonly known as the Hyperion Treatment System, which consists of 6,700 miles of wastewater conveyance system, the Hyperion Water Reclamation Plant and three upstream wastewater treatment plants: Donald C. Tillman Water Reclamation Plant (Tillman WRP), Los Angeles-Glendale Water Reclamation Plant (LAGWRP), Burbank Water Reclamation Plant (Burbank WRP) (owned and operated by a contract city), and their associated outfalls. The Hyperion treatment system collects, treats, and disposes of sewage from the entire city (except the Wilmington-San Pedro area, the strip north of San Pedro, and Watts) and from a number of cities and agencies under contractual agreements. Approximately 85% of the untreated wastewater comes from the City of Los Angeles. The remaining 15% comes from the contract cities and agencies. There are approximately four million people in the Hyperion treatment system service area. See Attachment B1-B3 for a map of the Hyperion Treatment System Service Area.

Contract Cities and Agencies

- a. Aneta Street Tax Zone
- b. Army Reserve Center
- c. Army Reserve Training
- d. Barrington Post Office
- e. City of Beverly Hills
- f. City of Burbank
- g. California National Guard (Federal Avenue Armory)
- h. L.A. County Sanitation District #4 (W. Hollywood)
- i. L.A. County Sanitation District #5 (Inglewood)

- L.A. County Sanitation District #16 (Alhambra, Pasadena, S.
- j. Pasadena)
- k. L.A. County Sanitation District #27 (Sunset Mesa)
- I. City of Culver City
- m. City of El Segundo
- n. Federal Office Building
- o. City of Glendale
- p. Karl Holton Camp
- q. Las Virgenes Municipal Water District
- r. Marina Del Rey
- s. City of San Fernando
- t. City of Santa Monica
- u. Terminal Island Treatment Service Area
- v. Triunfo County Sanitation District
- w. Universal City
- x. Veterans Memorial Park
- y. Veterans Administration Sawtelle
- z. West Los Angeles Community College

Sludge from the City's two upstream plants (Tillman WRP and LAGWRP) is returned to the wastewater collection system and flows to the Hyperion WRP for treatment. Discharges from Tillman WRP and LAGWRP are regulated by Order Number R4-2017-0062 (NPDES Number CA0056227) and Order Number R4-2017-0063 (NPDES Number CA0053953), respectively. In addition, sludge generated from the Burbank WRP is also returned to the City of Burbank sewer system for treatment at the Hyperion WRP. The influent to the Burbank WRP can be diverted/bypassed to the Hyperion WRP during periods of emergency. Discharges from the Burbank WRP are regulated under R4-2017-0064 (NPDES Number CA0055531).

The Hyperion WRP has provided full secondary treatment since December 1998. A process flow diagram of the Hyperion WRP process is depicted in Attachment C1. The treatment processes consist of advanced primary, and secondary treatment:

- a. **Preliminary Treatment** The headworks removes coarse solids (bar screens) and, sand and silt (grit removal) from wastewater. The headworks consists of eight barscreens (4 new 3/4-inch and 4 new 3/8-inch) with provisions for two future bar screens with a capacity of over 1,000 MGD, a grit capture classifier, pumping equipment, and screen storage hoppers.
- b. Advanced Primary Treatment Includes primary sedimentation with coagulation and flocculation using anionic polymer and ferric chloride, and surface skimming. The heavier solids settle and are scraped out of the primary sedimentation basin. The lighter solids float to the top and are skimmed off. The primary treatment process consists of four primary batteries consisting of a total of 26 primary sedimentation tanks, a skimming system, a

raw sludge collection mechanism, and a pumping apparatus. Primary effluent is pumped via ten Archimedes screw type pumps with a total capacity of over 1,000 MGD to the secondary reactors via the Intermediate Pumping Station (IPS).

- c. **Secondary Treatment** Includes activated sludge biological treatment using high purity oxygen and secondary clarification. Activated sludge consists of microorganisms that consume non-settleable and dissolved organic contaminants which form a settleable floc. Secondary clarification removes the biological floc from the wastewater and the biological floc becomes part of the sludge. The secondary process is comprised of nine reactor modules each with a design capacity of 50 MGD, a cryogenic facility to produce high purity oxygen, 36 circular clarifiers each with a design capacity of about 30 MGD, and a Return Activated Sludge (RAS) pumping system. Hyperion WRP pumps approximately 36 MGD of secondary effluent to West Basin for advanced treatment and reuse. The rest of the secondary treated effluent discharge through the 5-Mile Outfall (Serial Number 002) by pumping or gravity (depending on the tide condition) to the Santa Monica Bay.
- d. Service Water facility The Hyperion WRP also contains a Service Water Facility that accepts approximately 11 MGD of secondary-treated effluent to produce service water for internal plant use. Approximately 5 MGD of the secondary effluent is directed through a filtration process and then used to provide cooling water at the on-site cryogenic facility. The spent cooling water from the cryogenic facility is combined with the final effluent before entering the Effluent Pumping Plant for discharge (See attachment C1). The spent cooling water is not expected to negatively impact effluent quality due to the low flow rate compared to total flow and the process is only expected to alter the temperature of the cooling water (no chemical addition). The Permittee is also required to monitor the temperature of the final effluent and this Order/Permit includes a final effluent limitation for temperature of 100°F. The remaining service water is disinfected and used as high-pressure effluent for a variety of uses within the Facility such as line flushing, equipment seal water, sluice water at the headworks, chemical dilution, facility wash-down, and clarifier scum break-down. The Service Water Facility provides a lower cost alternative while also reducing the Permittee's reliance on imported potable water.
- e. **Solids Processing** Solid fractions recovered from wastewater treatment processes include grit, primary screenings, primary sludge and skimming, thickened waste activated sludge, digested sludge screenings and digester cleaning solids. The fine solids (grit, primary screenings, digested sludge screenings, digester cleaning solids) that consist of primarily inorganic materials are hauled away to landfills. The remaining solid fractions (primary sludge and skimmings, thickened waste activated sludge) are anaerobically digested onsite. The digested solids are screened and dewatered using

centrifuges. Since January 1, 2003, the Hyperion WRP has implemented full thermophilic digestion to generate Class A "EQ" biosolids using 18 anaerobic digesters. The biosolids (treated sewage sludge) are beneficially reused offsite at the Green Acre Farm in Kern County for land application and composting projects. The digester gas is cleaned, and a major part of the gas is currently exported to the Los Angeles Department of Water and Power's Scattergood Steam Generating Plant, located immediately adjacent to the Hyperion WRP. The exported digester gas is used as fuel in the generation of electricity. In return, the generating plant provides steam for digester heating at the Hyperion WRP. During interruptions in the export of steam from the Scattergood Steam Generation Plant, digester gas can be used as fuel for inplant boilers that provide steam to heat the anaerobic digesters. Any remaining non-exported digester gas may be flared, if necessary, and is regulated under a flare operation permit from the South Coast Air Quality Management District (AQMD). Attachment B1-B3 provides a map of the area around the facility.

The Hyperion WRP has an industrial wastewater Pretreatment Program, which is approved by USEPA and the Los Angeles Water Board. The Discharger continues to implement the Pretreatment Program throughout the Hyperion WRP's service area. However, since Contract Cities and Agencies operate their respective collection systems that are tributary to the City's main trunk lines, some contract cities and agencies also perform certain nondomestic source control activities, e.g., Fats, Oils, and Grease (FOG) program.

The Hyperion WRP collects and treats in-plant storm water runoff except that, during intense storms, undisinfected stormwater overflows may be discharged through the 1-Mile Outfall (Discharge Point 001). This stormwater discharge is regulated by the State Water Board's NPDES Number CAS000001- *General Permit for Storm Water Discharges Associated with Industrial Activities* contained in Order 2014-0057- DWQ, adopted on April 01, 2014 and amended by Order 2015-0122-DWQ and 2018-0028-DWQ. The City has developed and implemented a Stormwater Pollution Prevention Plan as required by the general permit.

The Hyperion WRP accepts dry weather urban runoff (including the first 0.1 inches of storm runoff) that is diverted from storm drains throughout the City of Los Angeles into the City's collection system year-round via the low flow diversion (LFD) facilities. LFD facilities are turned off during storm events that produce greater than 0.1 inches of precipitation, and for three days following such storm events. The LFD facilities' operation is in accordance with the six-year schedule for bacteria concentration during winter dry weather, contained in the Santa Monica Bay Beaches Dry-weather Bacteria TMDL (Chapter 7, section 7-4 of the Basin Plan) adopted by the Los Angeles Water Board.

Water Reclamation. Approximately 36 MGD of the Hyperion WRP's secondary effluent is sent to West Basin's Edward C. Little Water Recycling Plant (West

Basin Plant) for advanced treatment and reuse. The West Basin Municipal Water District (West Basin) operates the West Basin Plant in El Segundo. West Basin is contractually entitled to receive up to 70 MGD of secondary effluent from Hyperion WRP. The West Basin Plant provides tertiary treatment and/or advanced treatment such as microfiltration and reverse osmosis (RO) to the Hyperion secondary effluent to produce Title 22 and high purity recycled water. Title 22 recycled water is used for beneficial irrigation, industrial applications including cooling water and boiler feed water, and other purposes. The RO-treated recycled water is primarily injected into the West Coast Basin Barrier Project to control seawater intrusion.

The waste brine from the West Basin Plant is discharged to the ocean through Hyperion's 5-Mile Outfall (Discharge Point 002) via a waste brine line from the West Basin Plant. Although the waste brine is discharged through Hyperion's outfall, it is regulated under separate waste discharge requirements and NPDES permit.

The Hyperion WRP ceased the irrigation use of in-plant chlorinated secondary treated wastewater in January 1999. Instead, the plant started using tertiary recycled water from the West Basin Plant in August 1999.

The permittee submitted a final Title 22 Engineering Report for the Hyperion Advanced Water Purification Facility (HAWPF) on October 23, 2021, which was conditionally accepted by the Division of Drinking Water (DDW) on October 25, 2021 and accepted by Los Angeles Water Board on October 28, 2021. The HAWPF is currently under construction and will produce and supply highly purified recycled water for various potential non-potable uses to the Los Angeles International Airport (LAX) and within Hyperion WRP. Details of the HAWPF can be found in Fact Sheet section 3.7.

The Permittee plans to conduct a Membrane Bioreactor (MBR) Pilot Facility project in the next permitting cycle, which will determine the viability and design basis of converting the existing activated sludge facilities at the Hyperion WRP to an MBR system to provide an average daily flow of 272 MGD for potable and non-potable reuse by 2035. Influent to the pilot project will be comprised of Hyperion WRP primary effluent and will be treated by MBR process, reverse osmosis (RO), and advanced oxidation process (AOP). The pilot project will discharge streams of waste activated sludge, MBR filtrate overflow, RO permeate, RO concentrate, neutralized RO cleaning waste, and AOP effluent to the headworks of Hyperion WRP primary sedimentation through plant drains. The net effect of the discharge from the pilot project will be minimal because all streams from pilot project will stay on site in a looped mode.

3.2. Discharge Points and Receiving Waters

The Hyperion WRP has three ocean outfalls; however, only two outfalls (i.e., 001 and 002) are authorized discharge points for discharging treated wastewater to the Pacific Ocean as described below:

3.2.1. Discharge Point 001

Discharge Point 001 is commonly referred to as the "1-Mile Outfall". It is a 12-foot diameter outfall terminating approximately 5,364 feet (1.6 kilometers (km)) west-southwest of the treatment plant at a depth of approximately 50 feet (15 meters (m)) below the ocean surface (Latitude 33.91833 N, Longitude 118.44750 W). This outfall is only permitted for limited uses as described in the discharge prohibitions in section 3 of the Order/Permit. Any secondary treated effluent discharged from Discharge Point 001 is disinfected. The Permittee is also required to notify the Los Angeles Water Board and USEPA Region 9 in advance of any planned preventative maintenance that results in discharges through Discharge Point 001. In addition to final effluent, the 1-Mile Outfall conveys stormwater streams that are regulated by other permits, including overflow from the North, Central, and South Storm Drain Sumps, stormwater from the Vista Del Mar storm drains, and stormwater from the south county beach parking lot (See Attachment C2).

3.2.1. Discharge Point 002

Discharge Point 002 is commonly referred to as the "5-Mile Outfall". It is a 12-foot diameter outfall terminating approximately 26,525 feet (8.1 km) west-southwest of the treatment plant at a depth of approximately 187 feet (57m) below the ocean surface. This outfall is located north of Discharge Point 001 and ends in a "Y" shaped diffuser consisting of two 3,840-foot legs (Latitude 33.91197 N, Longitude: 118.52145 W) (North terminus of "Y" structure – Latitude 33.91933 N, Longitude 118.52848 W; South terminus of "Y" structure – Latitude 33.90065 N, Longitude 118.52727 W). This is the only outfall permitted for the routine discharge of undisinfected secondary treated effluent.

3.2.3. Outfall Number 003

This is a 20-inch diameter outfall terminating approximately 35,572 feet (10.8 km) west of the treatment plant, at the head of a submarine canyon at a depth of approximately 300 feet (91m) below the ocean surface (Latitude 33.92700 N, Longitude 118.55300 W). This outfall had been used to discharge sludge. Under the 1987 amended Consent Decree Number CV77-3047-HP, this outfall was deactivated in November 1987 when sludge discharge to the ocean was terminated. Near the head of this outfall, a spool piece was removed, and the discharge pipe was blind flanged to prevent any possible discharge of sewage or sludge into the Pacific Ocean. This outfall has not been maintained since it was taken out of service. Any discharge from this outfall is prohibited.

3.3. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data

Effluent limitations contained in the existing Order for discharges from Discharge Points 002 and 001 and representative monitoring data from April 2017 to

CITY OF LOS ANGELES HYPERION WATER RECLAMATION PLANT

ORDER XX-XXXX-XXX NPDES NO. CA0109991

September 2021 are included in Table F-2 below. No monitoring data is available for Discharge Point 001. There was an unplanned discharge of untreated wastewater on July 11, 2021. See section 3.4 of this Fact Sheet for more details. As a result, the data since July 11, 2021 may not be representative of the normal operating conditions of Hyperion WRP. Therefore, the monitoring data are summarized in the following format to reflect the effect of the July 11, 2021 incident: (All data from April 1, 2017 to September 30, 2021) / (data from April 1, 2017 through July 10, 2021).

Table F- 2. Effluent Limitations in Order Number R4-2017-0045 and Historical Monitoring Data at EFF-002

Parameter	Units	Average Monthly Effluent Limit	Average Weekly Effluent Limit	Maximum Daily Effluent Limit	Instantaneous Maximum Effluent Limit	Maximum Monthly Average	Maximum Weekly Average	Maximum Daily Average	Instantaneous Maximum	Notes
BOD ₅ 20°C	mg/L	30	45			135/26	232/35	1		а
BOD ₅ 20°C Removal Percentage	%	85%				64%/93%				a, b
TSS	mg/L	30	45			126/26	274/37			а
TSS Removal Percentage	%	85%				69%/93%		1		а
O&G	mg/L	25	40		75	39/2	83/3	1	83/3	а
Settleable Solids	mL/L	1.0	1.5		3.0	0.2/≤0.1	8.2/≤0.1	1	18/0.5	а
Turbidity	NTU	75	100		225	69/10	131/13	1	210/23	а
Copper, Total Recoverable	μg/L	16		140	160	45/25	98/25	98/25	98/25	С
Chlorine Residual	μg/L	28		112	840					С
Ammonia, Total (as N)	mg/L	8.4		34	84	57.8/57.8		57.8/57.8	61.6/61.6	С
рН	S.U.				6.0 - 9.0				6.8-8.0 /6.0-8.0	а
Chronic Toxicity	Pass or Fail			Pass				Pass (73 of 73)/Pass (67 of 67)		а
DDT	μg/L	0.0101				≤0.01/≤0.01				а
PAHs	μg/L	0.12				0.064/0.064				С
PCBs Aroclors	μg/L	0.000271				≤0.0262/≤0.0262		-		a,

Footnotes for Table F-2

- a. Effluent Limits for both EFF-001 and EFF-002 are the same.
- b. This is a minimum average monthly effluent limitation.
- c. Effluent Limits applicable to EFF-001 only.

End of footnotes for Table F-2

3.4. Compliance Summary

The following table lists the Facility's exceedances of effluent limitations in Order R4-2017-0045 that occurred during the period from April 2017 to April 2022.

Table F- 3. List of Non-compliance

rable 1 6. Elst of Non Compilation				
Date of Occurrence	Description of Exceedance			
7/11/2021	Unauthorized discharge of raw sewage from Hyperion WRP to Pacific Ocean from July 11, 2021, through July 12, 2021. According to the 5-day and 30-day report, approximately 16.874 million gallons of untreated wastewater were discharged through Discharge Point 001; an additional 80,000 gallons of untreated wastewater was discharged through Discharge Point 002 after blending with Hyperion WRP's secondary-treated effluent.			
7/17/2021	BOD₅20°C Weekly Average (Mean) limit is 45 mg/L and reported value was 113 mg/L at EFF-002.			
7/17/2021	BOD ₅ 20°C Weekly Average (Mean) limit is 160,000 lbs/day and reported value was 220,880 lbs/day at EFF-002.			
7/17/2021	TSS Weekly Average (Mean) limit is 45 mg/L and reported value was 74 mg/L at EFF-002.			
7/23/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 8 mL/L at EFF-002.			
7/24/2021	TSS Weekly Average (Mean) limit is 45 mg/L and reported value was 186 mg/L at EFF-002.			
7/24/2021	Turbidity Weekly Average (Mean) limit is 100 NTU and reported value was 117 NTU at EFF-002.			
7/24/2021	BOD ₅ 20°C Weekly Average (Mean) limit is 160,000 lbs/day and reported value was 454,060 lbs/day at EFF-002.			
7/24/2021	TSS Weekly Average (Mean) limit is 160,000 lbs/day and reported value was 363,970 lbs/day at EFF-002.			
7/24/2021	Oil and Grease Weekly Average (Mean) limit is 40 mg/L and reported value was 59 mg/L at EFF-002.			
7/24/2021	Settleable Solids Weekly Average (Mean) limit is 1.5 mL/L and reported value was 1.9 mL/L at EFF-002.			
7/24/2021	BOD ₅ 20°C Weekly Average (Mean) limit is 45 mg/L and reported value was 232 mg/L at EFF-002.			
7/25/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 11 mL/L at EFF-002.			
7/26/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 18 mL/L at EFF-002.			
7/28/2021	Oil and Grease Instantaneous Maximum limit is 75 mg/L and reported value was 83 mg/L at EFF-002.			
7/28/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 8 mL/L at EFF-002.			

Date of Occurrence	Description of Exceedance
7/29/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 3.5 mL/L at EFF-002.
7/30/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 6.5 mL/L at EFF-002.
7/31/2021	Oil and Grease Weekly Average (Mean) limit is 140,000 lbs/day and reported value was 164,660 lbs/day at EFF-002.
7/31/2021	TSS Monthly Average (Mean) limit is 105,000 lbs/day and reported value was 242,050 lbs/day at EFF-002.
7/31/2021	Settleable Solids Weekly Average (Mean) limit is 1.5 mL/L and reported value was 8.2 mL/L at EFF-002.
7/31/2021	Oil and Grease Weekly Average (Mean) limit is 40 mg/L and reported value was 83 mg/L at EFF-002.
7/31/2021	BOD ₅ 20°C Weekly Average (Mean) limit is 160,000 lbs/day and reported value was 441,550 lbs/day at EFF-002.
7/31/2021	BOD ₅ 20°C Weekly Average (Mean) limit is 45mg/L and reported value was 223 mg/L at EFF-002.
7/31/2021	BOD ₅ 20°C Monthly Average (Mean) limit is 105,000 lbs/day and reported value was 258,780 lbs/day at EFF-002.
7/31/2021	BOD₅20°C Monthly Average (Mean) limit is 30 mg/L and reported value was 135 mg/L at EFF-002.
7/31/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 9 mL/L at EFF-002.
7/31/2021	TSS Monthly Average (Mean) limit is 30 mg/L and reported value was 126 mg/L at EFF-002.
7/31/2021	TSS Weekly Average (Mean) limit is 45 mg/L and reported value was 274 mg/L at EFF-002.
7/31/2021	Turbidity Weekly Average (Mean) limit is 100 NTU and reported value was 131 NTU at EFF-002.
7/31/2021	Oil and Grease Monthly Average (Mean) limit is 25 mg/L and reported value was 39 mg/L at EFF-002.
7/31/2021	TSS Weekly Average (Mean) limit is 160,000 lbs/day and reported value was 544,420 lbs/day at EFF-002.
7/31/2021	BOD5 @ 20 Deg. C, Percent Removal Monthly Average (Mean) limit is 85% and reported value was 84% at EFF-002.
8/1/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 7.5 mL/L at EFF-002.
8/2/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 15.5 mL/L at EFF-002.
8/3/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 10 mL/L at EFF-002.
8/7/2021	Oil and Grease Weekly Average (Mean) limit is 40 mg/L and reported value was 52 mg/L at EFF-002.

Date of Occurrence	Description of Exceedance
8/7/2021	Settleable Solids Weekly Average (Mean) limit is 1.5 mL/L and reported value was 3.0 mL/L at EFF-002.
8/7/2021	BOD₅20°C Weekly Average (Mean) limit is 45 mg/L and reported value was 140 mg/L at EFF-002.
8/7/2021	TSS Weekly Average (Mean) limit is 160,000 lbs/day and reported value was 402,840 lbs/day at EFF-002.
8/7/2021	BOD ₅ 20°C Weekly Average (Mean) limit is 160,000 lbs/day and reported value was 277,910 lbs/day at EFF-002.
8/7/2021	TSS Weekly Average (Mean) limit is 45 mg/L and reported value was 203 mg/L at EFF-002.
8/14/2021	BOD₅20°C Weekly Average (Mean) limit is 45 mg/L and reported value was 52 mg/L at EFF-002.
8/14/2021	TSS Weekly Average (Mean) limit is 45 mg/L and reported value was 51 mg/L at EFF-002.
8/28/2021	TSS Weekly Average (Mean) limit is 45 mg/L and reported value was 47 mg/L at EFF-002.
8/31/2021	BOD₅20°C Monthly Average limit is 30 mg/L and reported value was 62 mg/L at EFF-002.
8/31/2021	TSS Monthly Average (Mean) limit is 105,000 lbs/day and reported value was 160,210 lbs/day at EFF-002.
8/31/2021	BOD5 @ 20 Deg. C, Percent Removal Monthly Average (Mean) limit is 85% and reported value was 61% at EFF-002.
8/31/2021	TSS, Percent Removal Monthly Average (Mean) limit is 85% and reported value was 58% at EFF-002.
8/31/2021	TSS Monthly Average (Mean) limit is 30 mg/L and reported value was 81 mg/L at EFF-002.
8/31/2021	BOD ₅ 20°C Monthly Average (Mean) limit is 105,000 lbs/day and reported value was 122,570 lbs/day at EFF-002.
9/30/2021	TSS Monthly Average (Mean) limit is 30 mg/L and reported value was 35 mg/L at EFF-002.
9/30/2021	BOD₅20°C Monthly Average (Mean) limit is 30 mg/L and reported value was 33 mg/L at EFF-002.
10/2/2021	Settleable Solids Instantaneous Maximum limit is 3 mL/L and reported value was 12 mL/L at EFF-002.
12/31/2021	BOD₅20°C Monthly Average limit is 30 mg/L and reported value was 31 mg/L at EFF-002.
1/8/2022	BOD₅20°C Weekly Average (Mean) limit is 45 mg/L and reported value was 66 mg/L at EFF-002.
1/8/2022	TSS Weekly Average (Mean) limit is 45 mg/L and reported value was 52 mg/L at EFF-002.
1/31/2022	TSS Monthly Average (Mean) limit is 30 mg/L and reported value was 41 mg/L at EFF-002.

Date of Occurrence	Description of Exceedance
1/31/2022	BOD₅20°C Monthly Average (Mean) limit is 30 mg/L and reported value was 44 mg/L at EFF-002.

Unplanned Discharge of Untreated Wastewater

On July 11-12, 2021, the Discharger released untreated wastewater through Discharge Point 001 during an emergency. On July 11, 2021, the headworks of the Hyperion WRP experienced a backup that blocked bar screens at Hyperion's Headworks Screening Facility (Headworks Facility), resulting in the plant flooding and untreated wastewater overflowing to the 1-Mile Outfall. Untreated wastewater from the Headworks Facility flowed via the in-plant storm drain system due to the high-water levels in the sump wells. The wastewater overflow was directed through the 1-Mile Outfall rather than the 5-Mile Outfall because Hyperion's internal storm drains for overflows are connected to the 1-Mile Outfall to ensure stormwater flows do not overwhelm wastewater treatment processes. This resulted in approximately 17 million gallons (MG) of untreated wastewater being discharged as a controlled emergency measure through its 1-Mile Outfall relief system to prevent Hyperion WRP from going completely offline and to minimize the volume of untreated wastewater discharged. After the incident, the Discharger made notifications and submitted reports as required in section VII.C.7 of Order No. R4-2017-0045:

- a. The Discharger notified Los Angeles Water Boards and USEPA Region 9
 verbally within 2 hours of becoming aware of the incident and in writing within
 24 hours;
- b. On July 11, 2021, the Discharger notified California Office of Emergency Services (Cal OES), Los Angeles County Department of Public Health (LACDPH), National Response Center, and other stakeholders of the incident;
- c. On July 16, 2021, the Discharger submitted the 5-day preliminary report of the incident; and
- d. On August 14, 2021, the Discharger submitted the 30-day final report of the incident.

This incident also caused multiple effluent limit exceedances for $BOD_520^{\circ}C$, TSS, settleable solids, and Oil and Grease in the months following the July 11, 2021 spill as listed above in Table F-3. The Los Angeles Water Board has also issued several enforcement Orders, Order Number R4-2021-0107 on July 29, 2021, Order Number R4-2021-0107-A01 on August 2, 2021, and Order Number R4-2021-0107-A02 on September 17, 2021 to require that the Permittee perform sampling and submit reports including daily offshore sampling results, and a daily plant status until:

- a. All Hyperion WRP's treatment processes are online, and the Hyperion WRP resumes normal operation; and
- b. No instantaneous or average weekly effluent limitation exceedances are observed at Discharge Point 002 as a result of the plant upset caused by the July 11 incident or upon approval by the Los Angeles Water Board Executive Officer.

On October 8, 2021, the Los Angeles Water Board Assistant Executive Officer issued a Notice of Violation (NOV) and California Water Code (CWC) section 13267 Investigative Order No. R4-2021-0118 (Investigative Order) to the Permittee for the unauthorized discharge of untreated wastewater into the Pacific Ocean on July 11 and 12, 2021. The Investigative Order required the Permittee submit a technical report to provide additional information necessary to further investigate the incident. The Permittee submitted the required technical report on December 16, 2021.

The Permittee followed the requirements above and submitted a request to cease offshore monitoring on October 14, 2021. The Los Angeles Water Board evaluated and approved the Permittee's request to cease offshore monitoring on October 26, 2021 based on a review of the daily monitoring and status reports submitted by the Permittee, which indicated that 1) all Hyperion WRP's treatment processes were online and the plant had resumed normal operation, and 2) no recent instantaneous or average weekly effluent limitation exceedance for total suspended solids, settleable solids, turbidity, oil and grease, and biochemical oxygen demand had been observed at Discharge Point 002 as a result of the plant upset caused by the July 2021 incident

Several exceedances of BOD₅20°C and TSS effluent limits occurred from December 31, 2021 to January 31, 2022 as a result of power interruptions on December 30, 2021 and several days later caused by heavy rain on December 30, 2021. The power interruptions occurred mainly on the secondary treatment process. Most of the equipment returned to normal service the night of December 30, 2021, but it took a few days for all equipment to return online.

Deficient Monitoring

There were also violations due to deficient effluent monitoring due to damaged equipment and quality control failures. The Permittee also failed to collect data for all required chlordane isomers including chlordene-alpha and chlordene-gamma between April 1, 2017 to September 30, 2021.

3.5. Discharge Plume

The City of Los Angeles has conducted offshore water quality monitoring in Santa Monica Bay since 1987. The movement of the Hyperion WRP's wastewater plume is dictated by the depth of the thermocline or stratification and the direction and strength of highly variable currents in Santa Monica Bay. Under typical conditions, the plume is detected within 2 km (6,562 feet) of the outfall

terminus of Discharge Point 002, although it has been detected as far as 8 km (2,6247 feet) away from the outfall. Also, the plume has almost always been detected below the thermocline at a depth ranging from 10 m (33 feet) to 55 m (180 feet). Infrequently, during winter storm conditions, the plume has been detected at the surface in the vicinity of the outfall. On rare occasions, it has been impossible to detect the plume. As the waters of Santa Monica Bay approach the shore, the thermocline intersects the rising sea bottom. This point is typically 1000 m (3,281 feet) or more offshore and is the theoretical limit of the approach of the plume to the shoreline. The plume has never been detected less than 2.5 km (8,202 feet) from shore, at the 45 m (148 feet) depth contour. The City of Los Angeles has conducted shoreline and nearshore/inshore water quality monitoring in Santa Monica Bay since the late 1940s. The monitoring results indicated that effluent from the 5-Mile Outfall does not reach the shoreline and that elevated bacterial counts are associated with runoff from storm drains and discharges from piers. In addition, the 1-Mile Outfall is not expected to impact the shoreline bacteria counts because final effluent is disinfected prior to being discharged from the 1-Mile Outfall, the 1-Mile Outfall is infrequently used, and the volume of final effluent discharged is minimal. The Permittee completed its 2015 Effluent Pumping Plant Header Replacement Project during which the Permittee needed to discharge to the 1-Mile Outfall for a total of 6 weeks. The Permittee compiled and reviewed the data collected during this project and submitted a final report to Los Angeles Water Board on April 26, 2017. Shoreline monitoring requirements have been transferred to the monitoring program of the Municipal Separate Storm Water System (MS4) permit, Waste Discharge Requirement for Municipal Storm Water and NPDES permit for Municipal Separate Storm Sewer System (MS4) Discharges within the Coastal Watersheds of Los Angeles and Ventura Counties, Order Number R4-2021-0105, NPDES Number CAS004004 adopted by the Los Angeles Water Board on July 23, 2021.

3.6. Receiving Water Description

The receiving water into which Hyperion WRP discharges is part of the Santa Monica Bay watershed. The watershed is home to unique wetland, sand dune, and open-ocean ecosystems that support a rich diversity of wildlife and serve as migration stopovers for marine mammals and birds. The Santa Monica Bay and its beaches are invaluable recreational resources and important sources of revenue for the region. The Santa Monica Bay is heavily used for fishing, swimming, surfing, diving, and other activities classified as water contact and noncontact recreation.

Over the years, the beneficial uses of the Santa Monica Bay have been impaired to various degrees due to pollution, resource over-exploitation, and habitat destruction. The primary problems of concern include acute health risk associated with swimming in runoff-contaminated surf zone waters, chronic (cancer) risk associated with consumption of certain sport fish species in areas impacted by DDT, contaminants of emerging concern (CECs), harmful algae

blooms (HABs), and PCB contamination, pollutant loading from point sources, urban runoff, and other nonpoint sources in light of projected population increases and their impacts on marine ecosystem, health of fishery resources, and degradation of natural habitats, and population decline of key species. (SMBRC. 2004. "State of the Bay: 2004 Progress and Challenges", 45 pages; Santa Monica Bay Restoration Project. 1998. "Taking the Pulse of the Bay - State of the Bay 1998").

3.7. Planned Changes

The Permittee plans to construct a permanent pump station for the 1-Mile Outfall Surge Chamber. The pump station will help with drawdown from the 1-Mile outfall gates to the inlet channel of the Service Water Facility for treatment and will be used for scheduled preventive maintenance and selected standard operating procedures. The construction is scheduled to be completed in April 2023.

The Permittee is also in the process of upgrading and augmenting the existing treatment systems at the Hyperion WRP to produce and supply highly purified recycled water for various potential non-potable uses to the Los Angeles International Airport (LAX) and within Hyperion WRP. This proposed recycled water project ("project") consists of the design, construction and operation of the Hyperion Advanced Water Purification Facility (HAWPF). HAWPF will process up to 2 MGD primary treated effluent through fine screening, membrane bioreactor (MBR), reverse osmosis (RO), and UV disinfection/advanced oxidation process (UV/AOP) to produce 1.5 MGD of advanced treated recycled water. Construction tasks for the HAWPF are scheduled to be completed by May 2024. The advanced-treated water produced at the HAWPF will be beneficially reused at LAX and onsite at the Hyperion WRP for landscape irrigation, dual-plumbed systems, cooling processes, flushing of toilet and sanitary sewers, and other uses permitted under Title 22 of the California Code of Regulations year-round. The use of recycled water for beneficial reuse will be permitted under a separate order prior to delivery of the recycled water to the end users. The RO process at the HAWPF will have a recovery rate of 85%, and the RO concentrate will be conveyed back to the Hyperion WRP headworks. The product water reused onsite for uses other than landscape irrigation will also return to the Hyperion WRP headworks. The volume of combined streams (i.e., backwash, sludge, recycled water used on-site at Hyperion WRP, RO concentrate, etc.) from HAWPF will be approximately 1.1 MGD and will be conveyed back to the headworks for treatment. Although the HAWPF waste stream will contain elevated levels of pollutants, the discharge accounts for less than 0.4% of the total effluent flow rate from the Hyperion WRP and is expected to have minimal impact on the Hyperion WRP effluent quality.

The Permittee also plans to conduct an MBR Pilot Facility project in the next five years, which will determine the viability and design basis of converting the existing activated sludge facilities at Hyperion WRP to an MBR system. The full conversion

of the Hyperion WRP to MBR, followed by RO and AOP, will provide an average daily flow of advanced-treated water of 272 MGD for potable and non-potable reuse by 2035. Influent to the pilot project will be conveyed from the Hyperion WRP intermediate pump stations downstream from the primary clarifiers and will be treated by MBR, RO, and advanced oxidation AOP. The pilot project will discharge streams of waste activated sludge, MBR filtrate overflow, RO permeate, RO concentrate, neutralized RO cleaning waste, and AOP effluent to the headworks of Hyperion WRP primary sedimentation through plant drains. The net effect of the discharge from the pilot project is expected to be minimal with regards to the effluent quality from Hyperion WRP because all flow streams (product water and wastewater) from the pilot MBR project will be conveyed back to the headworks at Hyperion WRP.

4. APPLICABLE PLANS, POLICIES, AND REGULATIONS

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

4.1. Legal Authorities

This Order/Permit serves as WDRs pursuant to article 4, chapter 4, division 7 of the California Water Code (commencing with section 13260). This Order/Permit is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the USEPA and chapter 5.5, division 7 of the Water Code (commencing with section 13370). It shall serve as an NPDES permit authorizing the Discharger to discharge into waters of the United States at the discharge locations described in Table 2 subject to the WDRs in this Order/Permit. The State Order and Federal Permit are consolidated into a single permit pursuant to 40 CFR. section 124.4(c)(2). Although Discharge Point 002 is beyond the limit of State-regulated ocean waters, effluent plume migration into State waters warrants joint regulation of the discharge by USEPA Region 9 and the Los Angles Water Board.

4.2. 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.

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

4.3.1. **Water Quality Control Plan.** The Water Quality Control Plan for the Los Angeles Region (Basin Plan) designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the Basin Plan. Requirements in this Order/Permit implement the Basin Plan.

Beneficial uses applicable to the receiving waters are as follows:

Table F- 4. Basin Plan Beneficial Uses

Water Body Designation	Receiving Water Name	Beneficial Use(s)
180701040500 (Formerly Hydro. Unit Number 405.12)	Dockweiler Beach	Existing: Industrial service supply (IND), navigation (NAV), water contact recreation (REC-1), non-contact water recreation (REC-2), commercial and sport fishing (COMM), marine habitat (MAR), and wildlife habitat (WILD). Potential: Spawning, reproduction, and/or early development (SPWN).
	Pacific Ocean Nearshore Zone	Existing: IND, NAV, REC-1, REC-2, COMM, MAR, WILD, preservation of biological habitats (BIOL), RARE, migration of aquatic organisms (MIGR), SPWN, and SHELL. Potential: None.
	Pacific Ocean Offshore Zone	Existing: IND, NAV, REC-1, REC-2, COMM, MAR, WILD, RARE, MIGR, SPWN, and SHELL. Potential: None.

- 4.3.2. **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 coastal and inland surface waters. Requirements of this Order/Permit implement the Thermal Plan.
- 4.3.3. California Ocean Plan. The State Water Board adopted the Water Quality Control Plan for Ocean Waters of California, (Ocean Plan) in 1972, as amended. The State Water Board adopted the latest amendment on August 7, 2018, and it became effective on February 4, 2019. The Ocean Plan is applicable, in its entirety, to point source discharges to the ocean waters of the State. The Ocean Plan identifies beneficial uses of ocean waters of the State to be protected as summarized below:

Table F- 5. Ocean Plan Beneficial Uses

Discharge Point	Receiving Water	Beneficial Uses
001, 002	Pacific Ocean	Industrial water supply; water contact and non- contact recreation, including aesthetic enjoyment; navigation; commercial and sport fishing; mariculture; preservation and enhancement of designated Areas of Special Biological Significance (ASBS); rare and endangered species; fish migration; marine habitat; fish spawning and shellfish harvesting

To protect the beneficial uses, the Ocean Plan establishes water quality objectives and a program of implementation. Requirements of this Order/Permit implement the Ocean Plan amended in 2019 (2019 Ocean Plan).

- 4.3.4. Santa Monica Bay Comprehensive Conservation Management Plan. The Hyperion WRP discharges to Santa Monica Bay, one of the most heavily used recreational areas in California. Recognizing the importance of the Bay as a national resource, the State of California and USEPA nominated Santa Monica Bay to the National Estuary Program, and Congress subsequently included Santa Monica Bay in the program. The Santa Monica Bay National Estuary Program, with support from the USEPA, developed a Comprehensive Conservation and Management Plan (CCMP), which serves as a blueprint for restoring and enhancing the Bay. The Los Angeles Water Board plays a lead role in the implementation of the plan through adoption and enforcement of NPDES permits. Three of the CCMP actions address reducing pollutants of concern at the source (including municipal wastewater treatment plants), recycling water at the City of Los Angeles' Hyperion WRP and the County Sanitation Districts of Los Angeles County's Joint Water Pollution Control Plant, and improving water quality (e.g., CECs and HABs).
- 4.3.5. Alaska Rule. On March 30, 2000, USEPA revised its regulation that specifies when new and revised state and tribal water quality standards become effective for CWA purposes (40 CFR § 131.21, 65 Federal Register 24641 (April 27, 2000)). Under the revised regulation (also known as the Alaska Rule), new and revised standards submitted to USEPA after May 30, 2000, must be approved by USEPA before being used for CWA purposes. The final rule also provides that standards already in effect and submitted to USEPA by May 30, 2000, may be used for CWA purposes, whether or not approved by USEPA.
- 4.3.6. Stringency of Requirements for Individual Pollutants. This Order/Permit contains restrictions on individual pollutants that are no more stringent than required by the federal CWA and 2019 Ocean Plan.

Individual pollutant restrictions consist of technology-based effluent limitations (TBELs) and water quality-based effluent limitations (WQBELs). The TBELs consist of restrictions on BOD, TSS, and percent removal of BOD and TSS, which implement the minimum applicable federal technology-based requirements for POTWs. In addition, effluent limitations more stringent than federal technology-based requirements consisting of restrictions on oil and grease, settleable solids, turbidity, and pH are necessary to implement State treatment standards in Table 4 of the 2019 Ocean Plan. This Order's technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements.

WQBELs for copper, ammonia, DDT, PCBs as aroclors, and TCDD equivalents have been scientifically derived to implement Water Quality Objectives (WQOs) that protect beneficial uses. Both the beneficial uses and the WQOs have been approved pursuant to federal law and are the applicable federal water quality standards. All beneficial uses and WQOs contained in the Basin Plan and the 2019 Ocean Plan were approved under state law and submitted to and approved by USEPA prior to May 30, 2000. Any WQOs and beneficial uses submitted to USEPA prior to May 30, 2000, but not approved by USEPA before that date, are nonetheless "applicable water quality standards for purposes of the CWA" pursuant to 40 CFR § 131.21(c)(1). Collectively, this Order's restrictions on individual pollutants are no more stringent than required to implement the requirements of the CWA.

WQBELs for DDT and PCBs aroclors have also been established through the Santa Monica Bay TMDL for DDT and PCBs. Details can be found in section 4.5.9 of this Fact Sheet.

4.3.7. Antidegradation Policy. Federal regulations at 40 CFR 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 Los Angeles 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 CFR section 131.12 and State Water Board Resolution 68-16 and is further described in section 5.4.2. of this Fact Sheet.

- 4.3.8. **Anti-Backsliding Requirements**. Sections 402(o) and 303(d)(4) of the CWA and federal regulations at 40 CFR 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. The applicability of these requirements to this Order/Permit is discussed in detail in section 5.4.1 of this Fact Sheet.
- 4.3.9. Endangered Species Act (ESA) Requirements. This Order/Permit 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 USCA §§ 1531 to 1544). USEPA makes a "may affect, not likely to adversely affect" determination for the southern California steelhead, North American green sturgeon, the scalloped hammerhead shark, blue whale, fin whale, humpback whale, gray whale, leatherback turtle, loggerhead turtle, white abalone, and olive ridley sea turtle. USEPA makes a "no effect" determination for the remaining listed species under the National Marine Fisheries Service and the US Fish and Wildlife Service iurisdictions. These effect determinations are explained in the biological evaluation. USEPA is consulting with the United States (US) Fish and Wildlife Service and the National Marine Fisheries Service. This Order/Permit requires compliance with effluent limits, receiving water limits, and other requirements to protect the beneficial uses of waters of the state, including protecting rare and endangered species. The Permittee is responsible for meeting all requirements of the applicable Endangered Species Act.
- 4.3.10. **Sewage Sludge and Biosolids.** This Order/Permit does not authorize any act that results in violation of requirements administered by USEPA to implement 40 CFR Part 503, Standards for the Use or Disposal of Sewage Sludge. These standards regulate the final use or disposal of sewage sludge that is generated during the treatment of domestic sewage in a municipal wastewater treatment facility. The Permittee is responsible for meeting all applicable requirements of 40 CFR Part 503 that are under USEPA's enforcement authority.
- 4.3.11. **Monitoring and Reporting**. 40 CFR § 122.48 requires that all NPDES permits specify requirements for recording and reporting monitoring results. CWC section 13383 authorize the Los Angeles Water Board to require technical and monitoring reports. The Monitoring and Reporting Program (MRP) establishes monitoring and reporting requirements to implement federal and state requirements. This MRP is provided in Attachment E.

4.3.12. Federal Permit Renewal Contingency. The renewal of the Permittee's permit by USEPA is contingent upon determination by the U.S. Fish and Wildlife Service and the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service that the proposed discharge is consistent with the: (1) federal Endangered Species Act; (2) the Magnuson-Stevens Fishery Conservation and Management Act (MSA); and (3) the Los Angeles Water Board's certification/concurrence that the discharge will comply with applicable State water quality standards.

USEPA's reissuance of NPDES Number CA0109991 to the City of Los Angeles for the Hyperion WRP is subject to requirements of the MSA and ESA. In June 2022, USEPA requested updated information related to: (1) essential fish habitat and managed and associated species, and (2) threatened and endangered species and their designated critical habitats, in the vicinity of the Hyperion outfalls from the National Marine Fisheries Service and the U.S. Fish and Wildlife Service (collectively, the Services). USEPA may decide that changes to this permit are warranted based on the results of the completed consultation and a reopener provision to this effect has been included in the Order/Permit.

Joint issuance of an NPDES permit which incorporates both federal requirements and State waste discharge requirements will serve as the State's concurrence that the discharge complied with State water quality standards. The California Coastal Commission has indicated that it is not necessary to obtain a consistency certification pursuant to the Coastal Zone Management Act for the issuance of a federal NPDES permit containing secondary treatment standards.

4.3.13. Water Recycling. In accordance with statewide statutes and policies concerning water reclamation, (e.g., CWC sections 13000 and 13550-13557, State Water Board Resolution Number 77-1, Policy with Respect to Water Reclamation in California, and State Water Board Resolution Nos. 2009-0011, 2013-0003, and 2018-0057 (Recycled Water Policy)), the Los Angeles Water Board strongly encourages, wherever practicable, water recycling, water conservation, and use of storm water and dryweather urban runoff. The Permittee shall investigate the feasibility of recycling, conservation, and/or alternative disposal methods of wastewater (such as groundwater injection), and/or the use of stormwater and dry-weather urban runoff for beneficial reuse.

Section 4.3 of the Order/Permit requires the Permittee to submit an update to this feasibility study as part of the submittal of the Report of Waste Discharge (ROWD) for the next permit renewal.

The State Water Board adopted the *Water Quality Control Policy for Recycled Water* (Recycled Water Policy) on February 3, 2009 and amended it most recently on December 11, 2018. The most recent

amendments became effective on April 8, 2019. The Recycled Water Policy requires wastewater and recycled water dischargers to annually report monthly volumes of influent, wastewater produced, and effluent, including treatment level and discharge type. As applicable, dischargers are additionally required to annually report recycled water use by volume and category of reuse. The State Water Board issued a Water Code section 13267 and 13383 Order, Order WQ 2019-0037 EXEC, on July 24, 2019 to amend MRPs for all permits of NPDES, WDRs, WRRs, Master Recycling, and General WDRs. Annual reports are due by April 30 of each year, and the report must be submitted to GeoTracker. This Order/Permit implements the Recycled Water Policy by incorporating the volumetric monitoring reporting requirements in accordance with section 3 of the Recycled Water Policy

(https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2018/121118_7_final_amendment_oal.pdf) in section 10.4.17 of the MRP in this Order/Permit. The State Water Board's Order WQ 2019-0037 EXEC will no longer be applicable to the Discharger upon the effective date of this Order/Permit.

- 4.3.14. **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.
- 4.3.15. Pretreatment Requirements. The application of pretreatment requirements is monitored by the Permittee and the permit will be reopened when additional pretreatment requirements are determined to be applicable to the discharge. The Permittee has developed and is implementing a Pretreatment Program that was previously approved by USEPA. This Order requires implementation of the approved Pretreatment Program. The Hyperion WRP receives wastewater from 103 Significant Industrial User (SIU) permittees, and 55 non-significant categorical Industrial User (NSCIU) permittees. Any change to the Pretreatment Program shall be reported to the Los Angeles Water Board in writing and shall not become effective until approved by the Executive Officer in accordance with procedures established in 40 CFR § 403.18. The Discharger shall comply with requirements contained in Attachment H Pretreatment Reporting Requirements.
- 4.3.16. **Standard and Special Provisions**. Standard Provisions, which apply to all NPDES permits in accordance with 40 CFR § 122.41, and additional conditions applicable to POTWs in accordance with 40 CFR § 122.42, are provided in Attachment D. The Los Angeles Water Board and USEPA Region 9 have also included in this Order/Permit Special Provisions applicable to the Permittee. The rationale for the Special Provisions

contained in this Order/Permit is provided in section 9 of in this Fact Sheet.

4.3.17. Impaired Water Bodies on CWA 303(d) List. The State Water Board adopted the California 2020 - 2022 Integrated Report based on a compilation of the Regional Water Boards' Integrated Reports. These Integrated Reports contain both the Clean Water Act (CWA) section 305(b) water quality assessment and section 303(d) list of impaired waters. In developing the Integrated Reports, the Water Boards solicit data, information, and comments from the public and other interested persons. On January 19, 2022, the State Water Board approved the CWA section 303(d) List portion of the State's 2020 - 2022 Integrated Report (State Water Board Resolution Number 2022-0006). On May 11, 2022, USEPA approved California's 2020 – 2022 Integrated Report. The CWA section 303(d) list can be found at the following link: https://www.waterboards.ca.gov/water_issues/programs/water_quality_as sessment/2020_2022_integrated_report.html.

Santa Monica Bay (Offshore and Nearshore) is on the 303(d) list for the following pollutants/stressors from point and non-point sources: DDT (tissue & sediment), arsenic, mercury, PCBs (tissue & sediment), and trash. Total Maximum Daily Loads (TMDLs) for arsenic and mercury have not been scheduled for beaches in the Santa Monica Bay. The Santa Monica Bay Beaches Bacteria TMDLs were approved by USEPA in 2003, as described in section 4.5.7 of this Fact Sheet. The Santa Monica Bay Nearshore and Offshore Debris TMDL was approved by USEPA on March 20, 2012, and more details are provided in section 4.4.6.b of this Fact Sheet. The Santa Monica Bay TMDL for DDT and PCBs was established by USEPA on March 26, 2012 and is further described in section 4.4.6.c of this Fact Sheet.

4.4. Other Plans, Polices and Regulations

4.4.1. Climate Change Adaptation and Mitigation. On March 7, 2017, the State Water Board adopted a resolution in recognition of the challenges posed by climate change that requires a proactive approach to climate change in all State Water Board actions, including drinking water regulation, water quality protection, and financial assistance (Resolution Number 2017-0012). The resolution lays the foundation for a response to climate change that is integrated into all State Water Board actions, by giving direction to the State Water Board divisions and encouraging coordination with the Los Angeles Water Board. The Los Angeles Water Board also adopted A Resolution to Prioritize Actions to Adapt to and Mitigate the Impacts of Climate Change on the Los Angeles Region's Water Resources and Associated Beneficial Uses (Resolution Number R18-004) on May 10, 2018. The resolution summarizes the steps taken so far to address the impacts of climate change within the Los Angeles Water

Board's programs and lists a series of steps to move forward. These include the identification of potential regulatory adaptation and mitigation measures that could be implemented on a short-term and long-term basis by each of the Los Angeles Water Board's programs to take into account, and assist in mitigating where possible, the effects of climate change on water resources and associated beneficial uses. This Order/Permit contains provisions to require planning and actions to address climate change impacts in accordance with both the State and Los Angeles Water Board' resolutions.

The Permittee shall develop a Climate Change Effects Vulnerability Assessment and Management Plan (Climate Change Plan) and submit the Climate Change Plan to the Los Angeles Water Board for the Executive Officer's approval no later than 12 months after the effective date of this Order/Permit. The Climate Change Plan shall include an assessment of short- and long-term vulnerabilities of the facility and operations as well as plans to address vulnerabilities of collection systems, facilities, treatment systems, and outfalls for predicted impacts in order to ensure that facility operations are not disrupted, compliance with permit conditions is achieved, and receiving waters are not adversely impacted by discharges. Control measures shall include, but are not limited to, emergency procedures, contingency plans, alarm/notification systems, training, backup power and equipment, and the need for planned mitigations to ameliorate climate-induced impacts including, but not limited to, changing influent and receiving water quality and conditions, as well as the impact of rising sea level (where applicable), wildfires, storm surges and back-toback severe storms, which are expected to become more frequent.

- 4.4.2. **Secondary Treatment Regulations**. 40 CFR § 133 establishes the minimum levels of effluent quality to be achieved by secondary treatment. These limitations, established by USEPA, are incorporated into this Order/Permit, except where more stringent limitations are required by other applicable plans, policies, or regulations or to prevent backsliding.
- 4.4.3. Stormwater. CWA section 402(p), as amended by the Water Quality Act of 1987, requires NPDES permits for stormwater discharges. Pursuant to this requirement, in 1990, USEPA promulgated 40 CFR part 122.26 that established requirements for stormwater discharges under an NPDES program. To facilitate compliance with federal regulations, in November 1991, the State Water Board issued a statewide general permit, General Permit for Storm Water Discharges Associated with Industrial Activities (Order Number 2014-0057-DWQ amended by Order 2015-0122-DWQ and Order 2018-0028-DWQ, NPDES No. CAS000001). Order Number 2014-0057-DWQ has been amended and reissued several times since 1991, and most recently on November 6, 2018. The latest amendment became effective on July 1, 2020.

Order Number 2014-0057-DWQ is applicable to stormwater discharges from Hyperion WRP's premises. The Permittee collects storm water runoff at Hyperion and directs it to a lift station where it is pumped to the facility headworks for treatment. When the flow of stormwater exceeds the capacity of the stormwater pump stations, the excess water is discharged to the 1-Mile Outfall. The Permittee is required to report any stormwater overflows that discharge to the 1-Mile Outfall. On May 28, 2015, the Permittee filed a Notice of Intent to comply with the requirements of Order Number 2014-0057-DWQ. The Permittee also developed and currently implements a Storm Water Pollution Prevention Plan (SWPPP), to comply with the State Board's Order Number 2014-0057-DWQ.

4.4.4. Sanitary Sewer Overflows (SSOs). The CWA prohibits the discharge of pollutants from point sources to surface waters of the United States unless authorized under an NPDES permit. (33 United States Code sections 1311, 1342). The Permittee must comply with State Water Board Order Number 2006-0003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, (SSS WDRs) as amended by State Water Board Order Number WQ 2013-0058-EXEC and any subsequent order updating these requirements. These statewide WDRs require public agencies that own or operate sanitary sewer systems with greater than one mile of sewer lines to enroll for coverage and comply with requirements to develop and implement sewer system management plans and report all SSOs to the State Water Board's online SSOs database. Regardless of the coverage obtained under the SSS WDRs, the Permittee's collection system is part of the POTW that is subject to this NPDES permit. As such, pursuant to federal regulations, the Permittee must properly operate and maintain its collection system (40 CFR section 122.41 (e)), report any non-compliance (40 CFR section 122.41(1)(6) and (7)), and mitigate any discharge from the collection system in violation of this NPDES permit (40 CFR section 122.41(d)).

The requirements contained in this Order/Permit in sections 7.3.3.b (Spill Cleanup Contingency Plan section), 7.3.4 (Construction, Operation and Maintenance Specifications section), and 7.3.7 (Spill Reporting Requirements section) are consistent with the requirements of the SSS WDRs. The Los Angeles Water Board recognizes that there may be some overlap between these NPDES permit provisions and SSS WDRs requirements, related to the collection systems. The requirements of the SSS WDRs are considered the minimum thresholds (see Finding 11 of State Water Board Order Number 2006-0003-DWQ). To encourage efficiency, the Los Angeles Water Board will accept the documentation prepared by the permittees under the SSS WDRs for compliance purposes as satisfying the requirements in sections 7.3.3.b, 7.3.4, and 7.3.7, provided the more stringent provisions contained in this NPDES permit are also addressed in the SSS WDRs submission. Pursuant to SSS WDRs.

section D, provision 2(iii) and (iv), the provisions of this NPDES permit supersede the SSS WDRs, for all purposes, including enforcement, to the extent the requirements may be deemed duplicative.

The requirements of this Order/Permit are more stringent that the SSS WDRs because in addition to the SSS WDR requirements, this NPDES permit requires water quality monitoring of the receiving water when the spill reaches the surface water.

4.4.5. Watershed Management. The Los Angeles Water Board has been implementing a Watershed Management Approach (WMA) to address water quality protection in the Los Angeles Region. Information about watersheds in the region can be obtained at the <u>Los Angeles Water</u> <u>Board's website</u> at

http://www.waterboards.ca.gov/losangeles/water_issues/programs/regional _program/watershed/index.shtml. The WMA emphasizes cooperative relationships between regulatory agencies, the regulated community, environmental groups, and other stakeholders in the watershed to achieve the greatest environmental improvements with the resources available.

This Order/Permit and the accompanying Monitoring and Reporting Program (Attachment E) fosters implementation of this approach by protecting beneficial uses in the watershed and requiring the Discharger to participate with other stakeholders in the development and implementation of a watershed-wide monitoring program. The Monitoring and Reporting Program requires the discharger to participate in regional monitoring programs in the Southern California Bight.

- 4.4.6. **Relevant TMDLs**. Section 303(d) of the CWA requires states to identify water bodies that do not meet water quality standards and then to establish TMDLs for each waterbody for each pollutant of concern. TMDLs identify the maximum amount of pollutants that can be discharged to waterbodies without causing violations of water quality standards.
 - a. Santa Monica Bay Beaches Bacteria Total Maximum Daily Loads (TMDLs). The Los Angeles Water Board has adopted two TMDLs to reduce bacteria at Santa Monica Bay beaches during dry and wet weather. The Los Angeles Water Board adopted the Dry Weather and Wet Weather TMDLs on January 24, 2002 and December 12, 2002, respectively (Resolution Nos. 2002-004 and 2002-022). These TMDLs were approved by the State Water Board, State OAL and USEPA Region 9 and became effective on July 19, 2003. These TMDLs were revised by the Los Angeles Water Board on June 7, 2012. The revised TMDL was approved by State Water Board on May 19, 2013, State OAL on November 7, 2013, and USEPA on July 2, 2014. The TMDLs are included in Chapter 7-4 of the Basin Plan.

In these TMDLs, waste load allocations (WLAs) are expressed as the number of sample days at a shoreline monitoring site that may exceed the single sample targets for total coliform, fecal coliform and *Enterococcus* identified under "Numeric Target" in the TMDLs. WLAs are expressed as allowable exceedance days because the bacterial density and frequency of single sample exceedances are the most relevant to public health protection at beaches. The final shoreline compliance point for the WLAs in the TMDLs is the wave wash where there is a freshwater outlet (i.e., publicly owned storm drains or natural creek) to the beach, or at ankle depth at beaches without a freshwater outlet.

The City of Los Angeles, as the owner of Hyperion WRP, is identified as a responsible jurisdiction in these TMDLs. In these TMDLs, Hyperion WRP is assigned a WLA of zero days of exceedance of the single sample bacterial objectives during all three identified periods – summer dry weather, winter dry weather and wet weather. Hyperion WRP's WLA of zero exceedance days requires that no discharge from its outfalls cause or contribute to any exceedances of the single sample bacteria objectives at the shoreline compliance points identified in the TMDL and subsequently approved Coordinated Shoreline Monitoring Plan (dated April 7, 2004) submitted by responsible agencies and jurisdictions under the TMDLs.

- b. Santa Monica Bay Inshore and Offshore Debris TMDL. The Los Angeles Water Board adopted the Santa Monica Bay Inshore and Offshore Debris TMDL on November 4, 2010, to eliminate trash in the Santa Monica Bay. The WLAs assigned in this TMDL are applicable to Municipal Separate Storm Sewer System (MS4) permittees. These WLAs are implemented through the Regional MS4 Permit (Order Number R4-2021-0105).
- c. Santa Monica Bay TMDL for DDTs and PCBs. The USEPA adopted the Santa Monica Bay Total Maximum Daily Loads for DDT and PCBs on March 26, 2012. The concentrations of DDT and PCBs in the wastewater effluent are currently at or near the detection limits; however, due to historic discharges of DDT and PCBs to the Santa Monica Bay, these constituents continue to persist in the environment, particularly in the ocean sediments. The concentrations of PCBs and DDT in surface sediments have decreased substantially since the 1970s as much of the contamination has been carried away by currents, buried below the active sediment layer, or degraded as a result of natural processes. Despite the decreasing trend, the concentrations of DDT and PCBs in surface sediments today are at levels that can still accumulate in fish tissues at levels of concern for safe human health consumption. The City of Los Angeles' Hyperion WRP is identified as a responsible

jurisdiction in this TMDL and as such, the TMDL sets Average Monthly and Average Annual WLAs for DDT and PCBs aroclors for the Hyperion WRP. These WLAs have been incorporated into this Order/Permit as final effluent limitations.

5. 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 CFR section 122.44(a) requires that permits include applicable technology-based limitations and standards (TBELs); and 40 CFR section 122.44(d) requires that permits include water quality-based effluent limitations (WQBELs) to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water. Where numeric water quality objectives have not been established, 40 CFR § 122.44(d) specifies that WQBELs may be established using USEPA criteria guidance under CWA section 304(a); proposed State criteria or a State policy interpreting narrative criteria supplemented with other relevant information may be used; or an indicator parameter may be established.

The variety of potential pollutants found in the Facility discharges presents a potential for aggregate toxic effects to occur. Whole effluent toxicity (WET) is an indicator of the combined effect of pollutants contained in the discharge. Chronic toxicity is a more stringent requirement than acute toxicity. Therefore, chronic toxicity is considered a pollutant of concern for protection and evaluation of narrative Basin Plan Water Quality Objectives for toxicity.

5.1. Discharge Prohibitions

This permit implements discharge prohibitions that are applicable under section III.I of 2019 Ocean Plan.

5.2. Technology-Based Effluent Limitations

5.2.1. Scope and Authority

Technology-based effluent limitations require a minimum level of treatment for industrial/municipal point sources based on currently available treatment technologies while allowing the Permittee to use any available control techniques to meet the effluent limits. The 1972 CWA required POTWs to meet performance requirements based on available wastewater treatment technology. Section 301 of the CWA established a required performance level--referred to as "secondary treatment" --that all POTWs were required to meet by July 1, 1977. More specifically, section 301(b)(1)(B) of the CWA required that USEPA develop secondary treatment standards for POTWs as defined in section 304(d)(1). Based on this statutory requirement, USEPA developed national secondary

treatment regulations which are specified in 40 CFR § 133. These technology-based regulations apply to all POTWs and identify the minimum level of effluent quality to be attained by secondary treatment in terms of BOD₅20°C, TSS, and pH.

5.2.2. Applicable Technology-Based Effluent Limitations

Section 301(b) of the CWA and implementing USEPA permit regulations at 40 CFR § 122.44 require that permits include conditions meeting applicable technology-based requirements at a minimum, and more stringent effluent limitations necessary to meet minimum federal technology-based requirements based on Secondary Standards at 40 CFR § 133 and Best Professional Judgment (BPJ) in accordance with 40 CFR § 125.3. Secondary treatment is defined in terms of three parameters – BOD₅20°C, TSS, and pH. The removal efficiency for BOD₅20°C and TSS is set at the minimum level attainable by secondary treatment technology. The following summarizes the technology-based requirements for secondary treatment, which are applicable to the Facility:

Table F- 6. Summary of TBELs in 40 CFR §133.102

Parameter	Units	30-day Average	7-day Average	Instan. Min.	Instan. Max.
BOD₅20°C	mg/L	30	45	1	
TSS	mg/L	30	45		
Removal Efficiency for BOD ₅ 20°C and TSS	%	≥85			
рН	pH Unit			6.0	9.0

Also, Table 4 of the 2019 Ocean Plan establishes the following TBELs, which are applicable to the Hyperion WRP:

Table F-7. Summary of TBELs for POTWs established by the 2019 Ocean Plan

Parameter	Units	AMEL	AWEL	Instan. Min.	Instan. Max	Note
Oil & Grease	mg/L	25	40		75	
Settleable Solids	mL/L	1.0	1.5		3.0	
Turbidity	NTU	75	100		225	
Removal Efficiency for TSS	%	75			1	а
pН	pH Unit			6.0	9.0	

Footnote for Table F-7:

a. 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

End of footnote for Table F-7:

All technology-based effluent limitations from Order Number R4-2017-0045 for BOD₅20°C, TSS, oil and grease, settleable solids, pH, and turbidity are retained in this Order/Permit. Limitations for BOD₅20°C, TSS, and pH are based on secondary treatment standards established by the USEPA at 40 CFR § 133. Limitations for oil and grease, settleable solids, and turbidity are based on requirements in the 2019 Ocean Plan. All technology based effluent limitations are not dependent upon the dilution ratio. In addition to the concentration-based effluent limitations, massbased effluent limitations are required and must be based on the design flow rate. (40 CFR. §122.45(b)(1), (f).) Consistent with antidegradation and anti-backsliding requirements, the mass-based effluent limits continue to be based on the 1994 420 MGD influent flow rate used in the 1994 permit.

The following table summarizes the TBELs for the discharger from the Hyperion WRP:

Parameter	Units	AMEL	AWEL	Instan. Min.	Instan. Max.	Note				
BOD ₅ 20°C	mg/L	30	45							
BOD ₅ 20 ⁰ C	lbs/day	105,000	160,000			а				
BOD ₅ 20°C	% removal	85								
TSS	mg/L	30	45							
TSS	lbs/day	105,000	160,000			а				
TSS	% removal	85								
Oil and Grease	mg/L	25	40	1	75					
Oil and Grease	lbs/day	88,800	140,000		281,000	а				
Settleable Solids	mL/L	1.0	1.5		3.0					
Turbidity	NTU	75	100		225					

Table F- 8. Summary of TBELs for the Hyperion WRP

Footnote for Table F-8:

pН

a. The mass emission rates are calculated using 420 MGD influent flow rate consistent with the water quality-based limits in the previous permit: lbs/day = 0.00834 x Ce (effluent

6.0

9.0

pH unit

concentration, ug/L) x Q (flow rate, MGD). During wet weather storm events in which the influent flow exceeds 420 MGD, the mass discharge rate limitations shall not apply, and concentration limitations will provide the only applicable effluent limitations.

End of footnote for Table F-8

5.3. Water Quality-Based Effluent Limitations (WQBELs)

5.3.1. Scope and Authority

CWA Section 301(b) and 40 CFR 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. This Order/Permit contains more stringent requirements than technology-based requirements, including secondary-treatment requirements, that are necessary to meet applicable water quality standards. The rationale for these requirements is discussed beginning in section 5.3.2 of this Fact Sheet.

Section 122.44(d)(1)(i) of 40 CFR 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) USEPA 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). WQBELs must also be consistent with the assumptions and requirements of TMDL WLAs approved by USEPA.

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 WQOs and criteria that are contained in other state plans and policies, or any applicable water quality criteria contained in the 2019 Ocean Plan.

5.3.2. Applicable Beneficial Uses and Water Quality Criteria and Objectives

The Basin Plan and Ocean Plan establish the beneficial uses and WQOs for ocean waters of the State. The beneficial uses of the receiving waters affected by the discharge have been described previously in this Fact Sheet. The Basin Plan contains Water Quality Objectives for bacteria for water bodies designated for water contact recreation and the Ocean Plan contains water quality objectives for bacterial, physical, chemical, and biological characteristics, and radioactivity. The WQOs from the Ocean

Plan and Basin Plan were incorporated into this Order/Permit as either final effluent limitations (based on reasonable potential) or receiving water limitations.

5.3.3. Expression of WQBELs

Pursuant to 40 CFR § 122.45(d)(2), for POTW continuous discharges, all permit effluent limitations, standards, and prohibitions, including those necessary to achieve water quality standards, shall, unless impracticable, be stated as average weekly and average monthly discharge limitations. It is impracticable to include only average weekly and average monthly effluent limitations in the Order/Permit because a single daily discharge of certain pollutants, in excess amounts, can cause violations of WQOs. The effects of pollutants on aquatic organisms are often rapid. For many pollutants, an average weekly or average monthly effluent limitation alone is not sufficiently protective of beneficial uses. As a result, maximum daily effluent limitations, as referenced in 40 CFR § 122.45(d), are included in the Order/Permit for certain constituents.

The WQBELs for marine aquatic life toxics contained in this Order/Permit are based on Table 3 Water Quality Objectives contained in the 2019 Ocean Plan that are expressed as six-month median, daily maximum, and instantaneous maximum water quality objectives. However, in the existing Order/Permit (Order Number R4-2017-0045), the calculated effluent limitations based on 6-month median objectives for marine aquatic life toxics in the 2019 Ocean Plan were prescribed as monthly average limitations, except for ammonia. Applying the anti-backsliding regulations, this Order/Permit retains the same approach and sets effluent limitations derived from six-month median water quality objectives for marine aquatic life toxics in the 2019 Ocean Plan as average monthly limitations for those pollutants that previously had average monthly limitations and continue to have reasonable potential. In addition, the 2019 Ocean Plan specifies that for the six-month median for intermittent discharges, the daily value shall be considered to equal zero for days on which no discharge occurred. Since several average monthly effluent limitations in this Order/Permit were based on 6-month median WQOs in the 2019 Ocean Plan, a footnote was added to the effluent limitations table to specify how compliance with these effluent limitations will be determined. To be consistent with the 2019 Ocean Plan, maximum daily and instantaneous maximum limitations are also prescribed in this Order/Permit.

5.3.4. Determining the Need for WQBELs

Order Number R4-2017-0045 contains effluent limitations for nonconventional and toxic pollutant parameters in Table 3 of the 2019 Ocean Plan. For this Order/Permit, the need for effluent limitations based on water quality objectives in Table 3 of the 2019 Ocean Plan was reevaluated in accordance with the Reasonable Potential Analysis (RPA)

ORDER XX-XXXX-XXX NPDES NO. CA0109991

procedures contained in Appendix VI of the 2019 Ocean Plan. This statistical RPA method (RPcalc version 2.2) accounts for the averaging period of the water quality objective, accounts for and captures the longterm variability of the pollutant in the effluent, accounts for limitations associated with sparse data sets, accounts for uncertainty associated with censored data sets, and assumes a lognormal distribution of the facilityspecific effluent data. The program calculates the upper confidence bound (UCB) of an effluent population percentile after complete mixing. In the evaluation employed in this Order/Permit, the UCB is calculated as the one-sided, upper 95 percent confidence bound for the 95th percentile of the effluent distribution after complete mixing. The calculated UCB95/95 is then compared to the appropriate objective to determine the potential for an exceedance of that objective and the need for an effluent limitation. For constituents that have an insufficient number of monitoring data or a substantial number of non-detected data with a reporting limit higher than the respective water quality objective, the RPA result is likely to be inconclusive. The 2019 Ocean Plan requires that the existing effluent limitations for these constituents be retained in the new Order, otherwise the permit shall include a reopener clause to allow for subsequent modification of the permit 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 WQO. Because there are no data available at EFF-001 after Order Number R4-2017-0045 became effective on April 1, 2017, data from EFF-002 were used to characterize the discharge quality from the Hyperion WRP in the RPA. Dilution ratio of 13:1 was used in the RPA for Discharge Point 001. Dilution ratios of 84:1 and 96:1 were used in the RPA for Discharge Point 002. For Discharge Point 001. RPA results were inconclusive for aldrin, benzidine, beryllium. chlordane, 3,3-dichlorobenzidine, dieldrin, heptachlor, heptachlor epoxide, hexachlorobenzene, toxaphene, DDT, and PCBs as aroclors. For Discharge Point 002, RPA results were inconclusive for aldrin, benzidine, chlordane, 3,3-dichlorobenzidine, heptachlor epoxide, hexachlorobenzene, toxaphene, and PCBs as aroclors. The final effluent limitations for PAHs (Discharge Point 001) from the previous permit were removed from this Order/Permit because the results of the reasonable potential analysis indicate the discharge has no reasonable potential to cause, or contribute to an excursion above the WQO, the permit includes a reopener to incorporate a new limit based on reasonable potential, the pollutants have been not detected in the final effluent most of the time, and the Permittee has made an effort to achieve lower detection limits than are required in the 2019 Ocean Plan or 40 CFR 136. The Los Angeles Water Board and USEPA Region 9 developed WQBELs for DDT and PCBs as aroclors that have available wasteload allocations under the Santa Monica Bay Total Maximum Daily Loads for DDTs and PCBs. The Los Angeles Water Board and USEPA Region 9 developed WQBELs for these pollutants pursuant to 40 CFR. section 122.44(d)(1)(vii).

The Los Angeles Water Board and USEPA Region 9 staff used RPCal to calculate reasonable potential using the procedure described above. The analysis included effluent data provided by the Permittee from April 2017 to September 2021 for both outfalls, and minimum initial dilution ratios of 13:1 for Discharge Point 001 and, 84:1, for all other pollutants, and 96:1, for ammonia and chronic toxicity, for Discharge Point 002. The Los Angeles Water Board staff and USEPA Region 9 staff determined that the following constituents, have reasonable potential to exceed 2019 Ocean Plan Water Quality Objectives and therefore, require the following effluent limitations for both outfalls: chronic toxicity, ammonia, copper, and TCDD equivalents. For discharge point 001, total chlorine residual also has reasonable potential since discharge through discharge point 001 needed to be disinfected through chlorination, and therefore the permit also includes final effluent limitations of total chlorine residual for discharges to the 1-Mile Outfall.

In general, for those constituents that have no reasonable potential to cause, or contribute to, excursions of water quality objectives, no numerical limits are prescribed; instead, a narrative statement to comply with all 2019 Ocean Plan requirements is provided and the Permittee is required to monitor for these constituents to gather data for use in RPAs for future Order/Permit renewals and/or updates. Refer to Attachment H of this Order/Permit for more details about the RPA results.

5.3.5. WQBEL Calculations

From the Table 3 water quality objectives in the 2019 Ocean Plan, effluent limitations are calculated according to the following equation for all pollutants, except for acute toxicity (if applicable):

$$C_e = C_o + D_m (C_o - C_s)$$

Where

 C_e is the effluent limitation ($\mu g/L$);

 C_0 is the WQO to be met at the completion of initial dilution ($\mu g/L$);

 C_s is the background seawater concentration ($\mu g/L$) (see Table F-9 below); and

 D_m is the minimum probable initial dilution expressed as parts seawater per part wastewater.

The D_m is based on observed waste flow characteristics, receiving water density structure, and the assumption that there are no currents of sufficient strength to influence the initial dilution process flow across the

discharge structure. In this Order/Permit, dilution ratios of 84:1, 96:1 have been applied to Discharge Point 002 and a dilution ratio of 13:1 has been applied to Discharge Point 001.

Initial dilution is the process that results in the rapid and irreversible turbulent mixing of wastewater with ocean water around the point of discharge. For a submerged buoyant discharge, characteristic of most municipal and industrial wastes that are released from the submarine outfalls, the momentum of the discharge and its initial buoyancy act together to produce turbulent mixing. Initial dilution in this case is completed when the diluting wastewater ceases to rise in the water column and first begins to spread horizontally. As site-specific water quality data is not available for pollutants without TMDLs, in accordance with 2019 Ocean Plan Table 3 implementing procedures, C_s equals zero for all pollutants, except the following:

Table F- 9. Background Seawater Concentrations (C_s)

Waste Constituent	C _s (µg/L)
Arsenic	3
Copper	2
Mercury	0.0005
Silver	0.16
Zinc	8
For all other Table 3 parameters	0

The Santa Monica Bay Total Maximum Daily Loads for DDTs and PCBs (USEPA, 2012) includes estimated background concentrations for DDTs and PCBs of 0.057 ng/L and 0.016 ng/L, respectively. These concentrations were used in the development of Waste Load Allocations for these pollutants.

The calculation of WQBELs for copper and ammonia are demonstrated below for Discharge Point 001, as examples:

Table F- 10. 2019 Ocean Plan WQOs (C_o) for Copper and Ammonia

Constituents	Unit	6-Month Median	Daily Max.	Instan. Max
Copper	μg/L	3	12	30
Ammonia (as N)	mg/L	0.6	2.4	6

Using the equation $C_e=C_o+D_m$ (C_o-C_s), effluent limitations are calculated as follows. All calculations are based on discharge through Discharge Point 001 and, therefore, a dilution ratio (D_m) of 13:1 is applied.

Copper

 $C_e=3+13*(3-2)=16 \mu g/L$ (prescribed as AMEL, see section 5.3.3 above);

 C_e =12+13*(12-2) =142 μ g/L (rounded to 140 μ g/L prescribed as MDEL); and

 C_e =30+13*(30-2) =394 μ g/L (However, this Order/Permit maintains the effluent limitation of 160 μ g/L from Order Number R4-2017-0045, per the anti-backsliding requirements; 160 μ g/L is prescribed as Instantaneous Maximum).

Ammonia

 C_e =0.6+13*0.6 =8.4 mg/L (prescribed as AMEL, see section 5.3.3 above); C_e =2.4+13*2.4 =33.6 mg/L (rounded to 34 mg/L prescribed as MDEL); and C_e =6+13*6 =84 mg/L (prescribed as Instantaneous Maximum).

Based on the implementing procedures described above, effluent limitations have been calculated for all Table 3 pollutants (excluding radioactivity, residual chlorine, and chronic toxicity) from the 2019 Ocean Plan that have reasonable potential to cause, or contributes to an excursion above the WQOs, and the calculated effluent limitations are incorporated into this Order/Permit when applicable.

5.3.6. Whole Effluent Toxicity (WET)

Whole effluent toxicity (WET) testing protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. An acute toxicity test is conducted over a short time period and measures mortality. A chronic toxicity test is conducted over a longer time period and may measure mortality, reproduction, and growth. Chronic toxicity is a more stringent requirement than acute toxicity. A constituent present at low concentrations may exhibit a chronic effect; however, a higher concentration of the same constituent may be required to produce an acute effect.

A total of 73 chronic WET tests were conducted on Hyperion WRP's final effluent between April 25, 2017 and September 13, 2021. No exceedances of the MDEL were reported for chronic toxicity. However, because of the nature of industrial discharges into the POTW sewershed, it is possible that toxic constituents could be present in the influent of Hyperion WRP or could have synergistic or additive effects. As previously stated in this Order/Permit, the Hyperion WRP receives wastewater from 103 SIU permittees, and 55 NSCIU permittees. Los Angeles Water Board staff determined that, pursuant to the on Step 13 of the RPA procedures in the 2019 Ocean Plan (i.e., best professional judgement), reasonable potential exists for chronic toxicity. Thus, this Order/Permit carried over the chronic toxicity MDEL for Discharge Point 001 and Discharge Point 002 from the existing permit.

The 2019 Ocean Plan addresses the application of chronic and acute toxicity requirements based on minimum probable dilutions (D_m) for ocean discharges. Following the 2019 Ocean Plan, dischargers are required to conduct chronic toxicity monitoring for ocean discharges with D_m factors ranging from 99 to 349 and the Los Angeles Water Boards may require acute toxicity monitoring in addition to chronic toxicity monitoring. Dischargers with D_m factors below 99 are required to conduct only chronic toxicity testing. The D_m for Discharge Point 001 is 13 and that of Discharge Point 002 is 84, and 96 for ammonia and chronic toxicity. Since D_m is less than 99 for both discharge points, a chronic toxicity final effluent limitation has been assigned to Discharge Point 001 and Discharge Point 002. No acute toxicity final effluent limitations have been assigned to Discharge Point 001 or Discharge Point 002 consistent with 40 CFR § 122.44(d)(1)(v), and because the chronic toxicity final effluent limitation is protective of both chronic and acute toxicity.

The 2019 Ocean Plan establishes a daily maximum chronic toxicity objective of 1.0 TU $_{\rm c}$ (TU $_{\rm c}$ =100/(No Observed Effect Concentration (NOEC))), using a 5-concentration hypothesis test, and a daily maximum acute toxicity objective of 0.3 TU $_{\rm a}$ (TU $_{\rm a}$ = 100/LC50), using a point estimate model. This Order/Permit includes final effluent limitations using the Test of Significant Toxicity (TST) hypothesis testing approach. This statistical approach is consistent with the 2019 Ocean Plan in that it provides maximum protection to the environment since it more reliably identifies acute and chronic toxicity than the current NOEC hypothesis-testing approach (See 2019 California Ocean Plan, Section III.F and Appendix I).

Because effluent data exhibited reasonable potential to cause or contribute to an exceedance of the water quality objective for acute or chronic toxicity, this Order/Permit contains numeric chronic toxicity effluent limitations for both discharge points. Compliance with the chronic toxicity requirements contained in this Order/Permit shall be determined in accordance with section 8.10 of this Order/Permit. Nevertheless, this Order/Permit contains a reopener to allow the Los Angeles Water Board and USEPA to modify the permit in the future, if necessary, to make it consistent with any new policy, plan, law, or regulation.

For this Order/Permit, chronic toxicity in the discharge is evaluated using a maximum daily effluent limitation that utilizes USEPA's 2010 TST hypothesis testing approach. The chronic toxicity effluent limitations are expressed as "Pass" for each maximum daily individual result.

In January 2010, USEPA published a guidance document titled *EPA Regions 8, 9 and 10 Toxicity Training Tool*, which among other things discusses permit limit expression for chronic toxicity. The document acknowledges that NPDES regulations at 40 CFR § 122.45(d) require that all permit limits be expressed, unless impracticable, as an Average Weekly

Effluent Limitation (AWEL) and an Average Monthly Effluent Limitation (AMEL) for POTWs. Following Section 5.2.3 of the Technical Support Document (TSD), the use of an AWEL is not appropriate for WET. In lieu of an AWEL for POTWs, USEPA recommends establishing a Maximum Daily Effluent Limitation (MDEL) for toxic pollutants and pollutants in water quality permitting, including WET. For an ocean discharge, this is appropriate because the 2019 Ocean Plan only requires a MDEL and does not include AMELs or AWELS for chronic toxicity (See 2019 California Ocean Plan, section II.D.7.).

The MDEL is the highest allowable value for the discharge measured during a calendar day or 24-hour period representing a calendar day. The AMEL is the highest allowable value for the average of daily discharges obtained over a calendar month. For WET, this is the average of individual WET test results for that calendar month. In June 2010, USEPA published another guidance document titled National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, June 2010), in which they recommend the following: "Permitting authorities should consider adding the TST approach to their implementation procedures for analyzing valid WET data for their current NPDES WET Program." The TST approach is another statistical option for analyzing valid WET test data. Use of the TST approach does not result in any changes to EPA's WET test methods. Section 9.4.1.2 of USEPA's Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/0136,1995), recognizes that, "the statistical methods recommended in this manual are not the only possible methods of statistical analysis." The TST approach can be applied to acute (survival) and chronic (sublethal) endpoints and is appropriate to use for both freshwater and marine EPA WET test methods.

The interpretation of the measurement result from USEPA's TST statistical approach (Pass/Fail) for effluent and receiving water samples is, by design, independent from the concentration-response patterns of the toxicity tests for samples when it is required. Therefore, when using the TST statistical approach, application of USEPA's 2000 guidance on effluent and receiving waters concentration-response patterns will not improve the appropriate interpretation of TST results as long as all Test Acceptability Criteria and other test review procedures – including those related to Quality Assurance for effluent and receiving water toxicity tests, reference toxicant tests, and control performance (mean, standard deviation, and coefficient of variation) – described by the WET test methods manual and TST guidance, are followed. The 2000 guidance may be used to identify reliable, anomalous, or inconclusive concentration-response patterns and associated statistical results to the extent that the guidance recommends review of test procedures and laboratory

performance already recommended in the WET test methods manual. The guidance does not apply to single concentration (IWC) and control statistical t-tests and does not apply to the statistical assumptions on which the TST is based. The Los Angeles Water Board and USEPA will not consider a concentration-response pattern as sufficient basis to determine that a TST t-test result for a toxicity test is anything other than valid, absent other evidence. In a toxicity laboratory, unexpected concentration-response patterns should not occur with any regular frequency and consistent reports of anomalous or inconclusive concentration-response patterns or test results that are not valid will require an investigation of laboratory practices.

Any Data Quality Objectives or Standard Operating Procedure used by the toxicity testing laboratory to identify and report valid, invalid, anomalous, or inconclusive effluent or receiving water toxicity test measurement results from the TST statistical approach which include a consideration of concentration-response patterns and/or Percent Minimum Significant Differences (PMSDs) must be submitted for review by the Los Angeles Water Board, in consultation with USEPA and the State Water Board's Quality Assurance Officer and Environmental Laboratory Accreditations Program (40 CFR § 122.44(h)). The PMSD criteria only apply to compliance for NOEC and the sublethal endpoints of the NOEC, and therefore are not used to interpret TST results.

5.4. Final Effluent Limitation Considerations

5.4.1. Anti-Backsliding Requirements

In conformance with reasonable potential analysis procedures identified in State Water Board and USEPA documents, effluent limitations for some constituents are not carried forward in this Order/Permit because there is no reasonable potential for the constituents to cause or contribute to an exceedance of water quality standards. Without reasonable potential, there is no longer a need to maintain prior WQBELs under NPDES regulations, anti-backsliding provisions, and antidegradation policies. The accompanying monitoring and reporting program requires continued data collection and if monitoring data show reasonable potential for a constituent to cause or contribute to an exceedance of water quality standards, the Order/Permit will be reopened to incorporate the WQBELs. Such an approach ensures that the discharge will adequately protect water quality standards for designated beneficial uses and conform with antidegradation policies and anti-backsliding provisions.

The final effluent limitations in this Order/Permit are at least as stringent as the effluent limitations in the previous Order/Permit, Order Number R4-2017-0045, with a few exceptions. Section 402(o)1/303(d)(4) of the Clean Water Act (CWA) provides statutory exceptions to the general prohibition of backsliding contained in CWA section 402(o)(1)/303(d)(4).

The final effluent limitations for PAHs for Discharge Point 001 were removed because new monitoring data indicated that the final effluent did not have reasonable potential to cause or contribute to an exceedance of the applicable water quality objectives, based on the most recent monitoring data. PAHs are also not present in the final effluent at concentrations that exceed the applicable water quality objectives. To maintain consistent water quality, PAHs have been assigned a concentration-based performance goal and a mass emission benchmark in this permit. The removal of the final effluent limitations for PAHs will therefore not authorize a change in the mass emission rates or a relaxation in the treatment of the discharge and meets the backsliding exception under CWA section 402(o)(1)/303(d)(4)(B).

The final mass-based effluent limitation for ammonia nitrogen at Discharge Point 001 was increased from 320 lbs/day to 390 lbs/day to be consistent with the concentration-based monthly average limitation of 112 μ g/L for ammonia nitrogen at Discharge Point 001. The mass-based effluent limitation in the previous permit was a technical mistake, therefore such relaxation meets the backsliding exception under CWA section 402(o)(2)(B)(ii).

5.4.2. Antidegradation Policies

CWA section 403(c) and implementing regulations at 40 CFR part 125, subpart M, establish ocean discharge criteria for preventing unreasonable degradation of the marine environment of the territorial seas, contiguous zones, and oceans. The regulations at 40 CFR section 125.122(b) allow a permitting authority to presume that a discharge will not cause unreasonable degradation for specific pollutants or conditions if the discharge complies with state water quality standards. This Order/Permit implements State water quality standards for discharges from Discharge Point 001 and 002. This Order's requirements for Discharge Point 002 are consistent with the Ocean Plan, except for the expression of the units for chronic toxicity. In all other respects, therefore, USEPA presumes that the discharge will not cause unreasonable degradation. With respect to chronic toxicity, USEPA is required to consider the site-specific factors listed in 40 CFR section 125.122(a). The City of Los Angeles submitted a report on May 29, 2003, to demonstrate compliance with the section 403 Ocean Discharge Criteria. USEPA prepared an evaluation under CWA section 403(c) for chronic toxicity and concluded that no unreasonable degradation of ocean waters will occur.

This Order/Permit includes both narrative and numeric final effluent limitations, receiving water limitations, performance goals, and mass emission benchmarks to maintain the chemical, physical, and biological characteristics, and to protect the beneficial uses, of the receiving water. These requirements ensure that all water quality objectives are being met

outside the zone of initial dilution, thereby maintaining the beneficial uses. The Ocean Plan allows for minimal degradation within the zone of initial dilution when the water quality objectives are maintained just outside the zone of initial dilution. The minimal degradation permitted by the Ocean Plan is consistent with the antidegradation policy because it maintains maximum benefit to the people of the State, it will not unreasonably affect the present and anticipated beneficial uses, and it will not result in water quality less than that prescribed in the policies.

The final effluent limitations from the previous Order/Permit have been retained in this Order/Permit except for PAHs. Under CWA sections 403(o)(1)/303(d)(4)(B) for waters in attainment, removal of the final effluent limitations for PAHs is consistent with the State's antidegradation policy because the discharge complies with existing water quality objectives for PAHs in the Santa Monica Bay (nearshore and offshore) and Dockweiler Beach, and is not included on the State's 303(d) list. The remaining final effluent limitations in Order R4-2017-0045 were not removed because the pollutants continue to show reasonable potential to cause or contribute to an exceedance of the water quality objectives in the Ocean Plan.

The mass-based final effluent limitations and mass emission benchmarks continue to be based on the 1994 influent design flow rate of 420 MGD, even though the design flow rate of the treatment plant has increased to 450 MGD after full secondary treatment was implemented. The increased treatment capacity was accompanied by a significant improvement in the final effluent quality; therefore, the treatment plant was able to continue meeting the mass-based final effluent limitations. Since the mass-based final effluent limitations continue to be based on a lower flow rate than is permitted to be discharged, the quantity of pollutants discharged, and the quality of the discharge are expected to remain relatively constant or improve during the permit term.

The mass emission benchmarks are an additional incentive for the Permittee to maintain the current treatment quality since they set final effluent targets for the Permittee to meet based on current performance. Most mass emission benchmarks in this Order/Permit are more or as stringent due to improved performance; however, the mass emission benchmarks for some constituents have increased. The mass emission benchmark for TCDD equivalents is removed in this Order/Permit because both concentration and mass-based effluent limits are established for this constituent in this Order/Permit that are as stringent as the performance goal and mass emission benchmark in Order Number R4-2017-0045. Since the mass emission benchmarks are based on performance and do not exceed the water quality objectives for the receiving water, the increase of any mass emission benchmarks is not expected to result in additional degradation.

5.4.3. Stringency of Requirements for Individual Pollutants

This Order/Permit contains both technology-based and water quality-based effluent limitations for individual pollutants. The technology-based effluent limitations consist of restrictions on BOD₅20°C, TSS, and pH. Restrictions on BOD₅20°C, TSS, and pH are discussed in section 5.2.2 of this Fact Sheet. This Order/Permit's technology-based pollutant restrictions implement the minimum applicable federal technology-based requirements.

Water quality-based effluent limitations have been scientifically derived to implement water quality objectives that protect beneficial uses. Both the beneficial uses and water quality objectives have been approved pursuant to federal law and are the applicable federal water quality standards. The scientific procedures for calculating individual water quality-based effluent limitations for priority pollutants are based on the 2019 Ocean Plan, which became effective on February 4, 2019. All beneficial uses and water quality objectives contained in the Basin Plan were approved under State law and approved by USEPA. Collectively, this Order/Permit's restrictions on individual pollutants are no more stringent than required to implement the requirements of the CWA and applicable water quality standards.

Table F- 11. Summary of Final Effluent Limitations for Discharge Point 002

Parameter	Units	AMEL	AWEL	MDEL	Instan. Min.	Instan. Max.	Annual Ave.	Performance Goals	Basis	Notes
Biochemical Oxygen Demand 5-day @ 20°C (BOD₅20°C)	mg/L	30	45						Existing, Secondary treatment standard	а
BOD₅20°C	lbs/day	105,000	160,000						Existing, Secondary treatment standard	a, b
Total Suspended Solids (TSS)	mg/L	30	45						Existing, Secondary treatment standard	а
TSS	lbs/day	105,000	160,000						Existing, Secondary treatment standard	a, b
Removal efficiency for (BOD₅20°C and TSS	%	≥85							Existing, Secondary treatment standard	а
рН	pH Unit				6.0	9.0			Existing, Secondary treatment standard	С
Oil and Grease (O&G)	mg/L	25	40			75			Existing, Ocean Plan	a, c
O&G	lbs/day	88,000	140,000			281,000			Existing, Ocean Plan	a, b, c
Settleable Solids	mL/L	1.0	1.5			3.0			Existing, Ocean Plan	a, c
Turbidity	NTU	75	100			225			Existing, Ocean Plan	a, c
Arsenic, Total Recoverable	μg/L							4.6	No RP	d, e
Cadmium	μg/L							0.22	No RP	d, e
Chromium (VI)	μg/L							5.0	No RP	d, e
Copper	μg/L	87		852		2382		40	RP, Ocean Plan	a, c, d, e, f, g
Copper	lbs/day	305							RP, Ocean Plan	a, b, c, d, f, g
Lead	μg/L							0.87	No RP	d, e
Mercury	μg/L							0.0051	No RP	d, e
Nickel	μg/L							18	No RP	d, e
Selenium	μg/L							2.8	No RP	d, e
Silver	μg/L							0.53	No RP	d, e
Zinc	μg/L							43	No RP	d, e
Cyanide, Total	μg/L							25	No RP	е
Ammonia (as N)	mg/L	58		233		582		52	RP, Existing, Ocean Plan	a, c, e, f, g, h
Ammonia (as N)	lbs/day	203,000		820,000		2,000,000			RP, Existing, Ocean Plan	b, c, f, g, h
Chronic Toxicity	Pass or Fail (TST)			Pass					RP, Existing, Ocean Plan	f, g, k, l
Phenols, Non-chlorinated	µg/L							5.0	No RP	e, i, j
Phenols, Chlorinated	µg/L							5.0	No RP	e, i, j
Endosulfans	µg/L							0.050	No RP	e, i, j
Endrin	μg/L							0.050	No RP	E

ORDER XX-XXXX-XXX NPDES NO. CA0109991

Parameter	Units	AMEL	AWEL	MDEL	Instan. Min.	Instan. Max.	Annual Ave.	Performance Goals	Basis	Notes
Hexachlorocyclohexane (HCH)	μg/L							0.025	No RP	e, i, j
Radiation, Gross Alpha	pCi/L							9.0	No RP, Ocean Plan	E
Radiation, Gross Beta	pCi/L							45	No RP, Ocean Plan	е
Acrolein	μg/L							25	No RP	е
Antimony	μg/L							3.8	No RP	d, e
Bis (2-chloroethoxy) methane	μg/L							25	No RP	е
Bis (2-chloroisopropyl) ether	μg/L							10	No RP	е
Chlorobenzene	μg/L							10	No RP	е
Chromium (III)	μg/L							1.9	No RP	е
Di-n-butyl phthalate	μg/L							50	No RP	е
Dichlorobenzenes	μg/L							5.0	No RP	e, i, j
Diethyl phthalate	µg/L							10	No RP	е
Dimethyl phthalate	µg/L							10	No RP	е
4,6-dinitro-2-methylphenol	μg/L							25	No RP	е
2,4-dinitrophenol	μg/L							25	No RP	е
Ethylbenzene	μg/L							10	No RP	е
Fluoranthene	μg/L							0.25	No RP	е
Hexachlorocyclopentadiene	μg/L							25	No RP	е
Nitrobenzene	μg/L							5.0	No RP	е
Thallium	μg/L							5.0	No RP	d, e
Toluene	μg/L							10	No RP	е
Tributyltin	μg/L							0.025	No RP	е
1,1,1-Trichloroethane	μg/L							10	No RP	е
Acrylonitrile	μg/L							10	No RP	е
Aldrin	μg/L							0.025	Inconclusive, no RP	е
Benzene	μg/L							10	No RP	е
Benzidine	μg/L							25	Inconclusive, no RP	е
Beryllium	μg/L							2.5	No RP	d, e
Bis (2-chloroethyl) ether	μg/L		-				-	5.0	No RP	е
Bis (2-ethylhexyl) phthalate	μg/L							25	No RP	е
Carbon tetrachloride	μg/L		-					10	No RP	е
Chlordane	μg/L							0.50	Inconclusive, no RP	e, i, j
Chlorodibromomethane	μg/L							10	No RP	E
Chloroform	μg/L							10	No RP	е
DDT	μg/L	0.0101							TMDL	a, i, j
DDT	g/yr						5,850		TMDL	j, i, j
1,4-dichlorobenzene	μg/L							5.0	No RP	е
3,3-dichlorobenzidine	μg/L							25	Inconclusive, no RP	е

Parameter	Units	AMEL	AWEL	MDEL	Instan. Min.	Instan. Max.	Annual Ave.	Performance Goals	Basis	Notes
1,2-dichloroethane	μg/L							10	No RP	е
1,1-dichloroethylene	μg/L							10	No RP	е
Dichlorobromomethane	μg/L							10	No RP	е
Dichloromethane	μg/L							2.4	No RP	е
1,3-Dichloropropene	μg/L							10	No RP	e, j
Dieldrin	μg/L							0.050	No RP	е
2,4-dinitrotoluene	μg/L							25	No RP	е
1,2-diphenylhydrazine	μg/L							5	No RP	е
Halomethanes	μg/L							10	No RP	e, i
Heptachlor	μg/L							0.050	No RP	е
Heptachlor epoxide	μg/L							0.050	Inconclusive, no RP	е
Hexachlorobenzene	μg/L							5.0	Inconclusive, no RP	е
Hexachlorobutadiene	μg/L							5.0	No RP	е
Hexachloroethane	μg/L							5.0	No RP	е
Isophorone	μg/L							5.0	No RP	е
N-nitrosodimethylamine	μg/L							25	No RP	е
N-nitrosodi-N-propylamine	μg/L							25	No RP	е
N-nitrosodiphenylamine	μg/L							5.0	No RP	е
PAHs	μg/L							0.064	No RP	e, i, j
PCBs Aroclors	μg/L	0.000271							TMDL	a, i, j
PCBs Aroclors	g/yr						157		TMDL	i, j
TCDD equivalents	pg/L	0.33							RP	a, f, i, j
TCDD equivalents	lbs/day	1.2E-06							RP	a, b, f, i, j
1,1,2,2-tetrachloroethane	μg/L							5.0	No RP	E
Tetrachloroethylene	μg/L							10	No RP	е
Toxaphene	μg/L							2.5	Inconclusive, no RP	е
Trichloroethylene	μg/L							10	No RP	е
1,1,2-trichloroethane	μg/L							10	No RP	е
2,4,6-trichlorophenol	μg/L							50	No RP	е
Vinyl chloride	μg/L							10	No RP	е

Footnotes for Table F-11:

- a. For intermittent discharges, the daily value used to calculate these average monthly values shall be considered to equal zero for days on which no discharge occurred.
- b. The mass emission rates are calculated using 420 MGD influent flow rate, consistent with water-quality based limits in the previous permit: lbs/day = 0.00834 x C_e (effluent concentration in μg/L) x Q (flow rate in MGD). During storm events when influent flow exceeds 420 MGD, the mass emission rate limitations shall not apply.
- c. The instantaneous minimum or maximum effluent limitations shall apply to grab samples.
- d. Values are expressed as total recoverable levels.

- e. The performance goals are based upon the actual performance data of Hyperion Treatment Plant and are specified only as an indication of the treatment efficiency of the plant. They are not considered effluent limitations or standards for the treatment plant. The Permittee shall make best efforts to maintain, if not improve, the effluent quality at the level of these performance goals.
- f. The minimum dilution ratios used to determine the compliance with effluent limitations for nonconventional and toxic pollutants for Discharge Point 002 are 84:1 for all pollutants except ammonia and toxicity, and 96:1 for ammonia and toxicity (i.e. 84 and 96 parts seawater to one part effluent, respectively).
- g. The maximum daily effluent limitations shall apply to flow weighted 24-hour composite samples.
- h. The value in the AMEL column is a 6-month median final effluent limitation for ammonia.
- i. See Attachment A for definitions of terms.
- j. Consistent with the Santa Monica Bay TMDL for DDTs and PCBs, the calculation of the annual mass emissions shall be calculated using the arithmetic average of available monthly mass emissions as follows:

Annual Mass Emission,
$$\frac{g}{year}$$

$$= \left(\frac{\sum Monthly\ Mass\ Emission,\ g/month}{Number\ of\ Monthly\ Mass\ Emissions\ Calculated}\right)*12\ months/year$$

$$Monthly\ Mass\ Emission, \frac{kg}{month} = \left(\frac{3{,}785}{N}\right) * \left(\sum_{i=1}^{N}Q_{i}C_{i}\right) * 30.5 = \frac{0.1154425}{N} * (\sum_{i=1}^{N}Q_{i}C_{i})$$

C_i = DDT or PCB concentration of each individual sample (ng/L)

Q_i = discharger flow rate on date of sample (mgd)

N = number of samples collected during the month

The total mass load for DDT and PCB from the Joint Water Pollution Control Plant, Hyperion Water Reclamation Plant, and West Basin's Water Reclamation Plant shall not be more than 14,567 g/yr for DDT and 351 g/yr for PCB. The Permittee is deemed in compliance with these group WQBELs for DDT and PCBs if it is in compliance with the individual mass-based Annual Average Effluent Limitations for DDT and PCBs.

- I. The Chronic Toxicity final effluent limitation is protective of both the numeric acute and chronic toxicity 2019 Ocean Plan water quality objectives. The final effluent limitation will be implemented using Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136, 1995), current USEPA guidance in the National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, June 2010) (http://www3.epa.gov/npdes/pubs/wet_final_tst_implementation2010.pdf) and EPA Regions 8, 9, and 10, Toxicity Training Tool (January 2010).
- m. The Maximum Daily Effluent Limitation (MDEL) shall be reported as "Pass" or "Fail". See section 5.5.1. of the MRP.

End of footnotes for Table F-11

Table F- 12. Summary of Final Effluent Limitations for Discharge Point 001

Parameter	Units	AME	AWEL	MDEL	Instan. Min.	Instan. Max.	Annual Ave.	Basis	Notes	
Biochemical Oxygen Demand	mg/L	30	45					Existing, Secondary	а	
5-day @ 20°C (BOD₅20°C)	9/ =	00	.0					treatment standard	<u> </u>	
BOD ₅ 20°C	lbs/day	105,000	160,000					Existing, Secondary	a h	
BOD ₅ 20 C	ibs/uay	103,000	100,000	-				treatment standard	a, b	
Total Suspended Solids	ma/l	20	45					Existing, Secondary		
(TSS)	mg/L	30	45					treatment standard	а	
TSS	lho/dov	105.000	160,000					Existing, Secondary	a h	
155	lbs/day	105,000	160,000					treatment standard	a, b	
BOD520°C and TSS	0	>05						Existing, Secondary		
Removal	Ŏ.	≥85						treatment standards	а	

Parameter	Units	AME	AWEL	MDEL	Instan. Min.	Instan. Max.	Annual Ave.	Basis	Notes
рН	pH Unit				6.0	9.0		Existing, Secondary treatment standards	С
Oil and Grease (O&G)	mg/L	25	40			75		Existing, Ocean Plan	a, c
O&G	lbs/day	88,000	140,000			281,000		Existing, Ocean Plan	a, b, c
Settleable Solids	mL/L	1.0	1.5			3.0		Existing, Ocean Plan	a, c
Turbidity	NTU	75	100			225		Existing, Ocean Plan	a, c
Copper	μg/L	16		140		160		RP, Existing, Ocean Plan	a, c, d, e, f
Copper	lbs/day	56		490		560		RP, Existing, Ocean Plan	a, b, c, d, e, f
Chlorine, Total Residual	μg/L	28		112		840		Best professional judgement (BPJ), Existing, Ocean Plan	a, c, e, f
Chlorine, Total Residual	lbs/day	98		390		2,900		BPJ, Existing, Ocean Plan	a, b, c, e, f
Ammonia (as N)	mg/L	8.4		34		84		RP, Existing, Ocean Plan	a, c, e, f
Ammonia (as N)	lbs/day	29,000		120,000		290,000		RP, Existing, Ocean Plan	a, b, c, e, f
Chronic Toxicity	Pass or Fail (TST)			Pass				RP, Existing, Ocean Plan	f, i, j
DDT	µg/L	0.01010						TMDL	a, g
DDT	g/yr						5,850	TMDL	g, h
PCBs Aroclors	μg/L	0.000271						TMDL	a, g
PCBs Aroclors	g/yr						157	TMDL	g, h
TCDD equivalents	pg/L	0.055						RP, Ocean Plan	a, e, g
TCDD equivalents	lbs/day	1.9E-07						RP, Ocean Plan	a, b, e, g

Footnotes for Table F-12:

- a. For intermittent discharges, the daily value used to calculate these average monthly values shall be considered to equal zero for days on which no discharge occurred.
- b. The mass emission rates are calculated using a 420 MGD influent flow rate, consistent with water-quality based limits in the previous permit: lbs/day = 0.00834 x C_e (effluent concentration in μg/L) x Q (flow rate in MGD). During storm events when influent flow exceeds 420 MGD, the mass emission rate limitations shall not apply.
- c. The instantaneous minimum or maximum effluent limitations shall apply to grab samples
- d. Values are expressed as total recoverable levels.
- e. The minimum dilution ratios used to determine the compliance with effluent limitations for nonconventional and toxic pollutants for Discharge Point 001 is 13:1 for all pollutants.
- f. The maximum daily effluent limitations shall apply to flow weighted 24-hour composite samples.
- g. See Attachment A for definitions of terms.
- h. Consistent with the Santa Monica Bay TMDL for DDTs and PCBs, the calculation of the annual mass emissions shall be calculated using the arithmetic average of available monthly mass emissions as follows:

Annual Mass Emission,
$$\frac{g}{year}$$

$$= \left(\frac{\sum Monthly\ Mass\ Emission,\ g/month}{Number\ of\ Monthly\ Mass\ Emissions\ Calculated}\right)*12\ months/year$$

Monthly Mass Emission,
$$\frac{kg}{month} = \left(\frac{3,758}{N}\right) * \left(\sum_{i=1}^{N} Q_i C_i\right) * 30.5 = \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_i C_i\right)$$

C_i = DDT or PCB concentration of each individual sample (ng/L)

Q_i = discharger flow rate on date of sample (mgd)

N = number of samples collected during the month

The total mass load for DDT and PCB from the Joint Water Pollution Control Plant, Hyperion Water Reclamation Plant, and West Basin's Water Reclamation Plant shall not be more than 14,567 g/yr for DDT and 351 g/yr for PCB. The Permittee is deemed in compliance with these group WQBELs for DDT and PCBs if it is in compliance with the individual mass-based Annual Average Effluent Limitations for DDT and PCBs

- i. The Chronic Toxicity final effluent limitation is protective of both the numeric acute and chronic toxicity 2019 Ocean Plan water quality objectives. The final effluent limitation will be implemented using Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136, 1995), current USEPA guidance in the National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, June 2010) (http://www3.epa.gov/npdes/pubs/wet_final_tst_implementation2010.pdf) and EPA Regions 8, 9, and 10, Toxicity Training Tool (January 2010).
- j. The Maximum Daily Effluent Limitation (MDEL) shall be reported as "Pass" or "Fail". See section 5.5.1. of the MRP.

End of footnotes for Table F-12

- 5.5. Interim Effluent Limitations (Not Applicable)
- 5.6. Land Discharge Specifications (Not Applicable)

5.7. Recycling Specifications

The permittee submitted a final Title 22 Engineering Report for the HAWPF on October 23, 2021, which was conditionally accepted by DDW on October 25, 2021 and accepted by Los Angeles Water Board on October 28, 2021. The HAWPF is currently under construction and will produce and supply highly purified recycled water for non-potable uses such as landscape irrigation and dual-plumbed systems to the Los Angeles International Airport (LAX) and on-site at the Hyperion WRP. Details of the HAWPF can be found in Fact Sheet section 3.7.

The Permittee also plans to conduct an MBR Pilot Facility project within the next five years, which will determine the viability and design basis of converting the existing activated sludge facilities at the Hyperion WRP to an MBR system to provide an average daily advanced-treated recycled water flow of 272 MGD for potable and non-potable reuse by 2035.

The Permittee shall continue to investigate the feasibility of recycling, conservation, and/or alternative disposal methods for wastewater (such as groundwater injection), and/or beneficial use of stormwater and dry-weather urban runoff. The Permittee shall submit an update to this feasibility study as part of the submittal of the Report of Waste Discharge (ROWD) for the next permit renewal.

6. PERFORMANCE GOALS

Section III.F.1, of the 2019 Ocean Plan allows the Los Angeles Water Board to establish more restrictive water quality objectives and effluent limitations than those set forth in the Ocean Plan as necessary for the protection of the beneficial uses of ocean waters.

Pursuant to this provision and to implement the recommendation of the Water Quality Advisory Task Force (Working Together for an Affordable Clean Water Environment, A final report presented to the California Water Quality Control Board, Los Angeles Region by Water Quality Advisory Task Force, September 30, 1993) that was adopted by the Los Angeles Water Board on November 1, 1993, performance goals that are more stringent than those based on Ocean Plan objectives are prescribed in this Order/Permit. This approach is consistent with the antidegradation policy in that it requires the Permittee to maintain its treatment level and effluent quality, recognizing normal variations in treatment efficiency and sampling and analytical techniques. However, this approach does not address substantial changes in treatment plant operations that could significantly affect the quality of the treated effluent.

While performance goals were previously placed in many POTW permits in the Region, they have been discontinued for inland surface water discharges. For inland

surface waters, the California Toxics Rule (40 CFR § 131.38) has resulted in effluent limitations as stringent as many performance goals. However, the Ocean Plan allows for significant dilution, and the continued use of performance goals serves to maintain existing treatment levels and effluent quality and supports State and federal antidegradation policies.

The performance goals are based upon the actual performance of the Hyperion WRP and are specified only as an indication of the treatment efficiency of the Facility. Performance goals are intended to minimize pollutant loading (primarily for toxics), while maintaining the incentive for future voluntary improvement of water quality whenever feasible, without the imposition of more stringent limits based on improved performance. They are not considered enforceable limitations or standards for the regulation of the discharge from the treatment facility.

<u>Subsections 6.1-6.3 below describe the procedures for the Determination of</u> Performance Goals

- 6.1. For constituents that have been routinely detected in the effluent (at least 20 percent detectable data), performance goals are based on the one-sided, upper 95 percent confidence bound for the 95th percentile of the effluent performance data (UCB_{95/95}) from April 2017 through September 2021 using the RPA protocol contained in the 2019 Ocean Plan. Effluent data are assumed log normally distributed. Performance goals are calculated according to the equation C_{PG} = C_o+D_m(C_o-C_s) and setting C_o = UCB_{95/95}.
 - a. If the maximum detected effluent concentration (MEC) is greater than the calculated performance goal, then the calculated performance goal is used as the performance goal; or
 - b. If the maximum detected effluent concentration is less than the calculated performance goal, then the MEC is used as the performance goal.
 - c. If the performance goal determined in part a or b is greater than the WQO in the 2019 Ocean Plan after considering dilution, then the WQO is used as the performance goal.

For example, the performance goals for arsenic and mercury at Discharge Point 002 are calculated as follows:

Arsenic

 C_o = UCB_{95/95} = 3.02 μg/L; D_m = 84; C_s = background seawater concentration = 3 μg/L; MEC = 6.19 μg/L; C_{PG} = Performance Goal = (3.02 μg/L) + 84(3.02 μg/L - 3 μg/L) = 4.64 μg/L.

Since the MEC of 6.19 μ g/L is larger than the calculated C_{PG} of 5 μ g/L, the prescribed performance goal for Arsenic is 5 μ g/L.

Mercury

 C_o = UCB_{95/95} = 0.0050 μ g/L; D_m = 84; C_s = background seawater concentration = 0.0005 μ g/L; MEC = 0.00513 μ g/L; C_{PG} = Performance Goal = (0.0050 μ g/L) + 84(0.0050 μ g/L - 0.0005 μ g/L) = 0.4 μ g/L.

Since the MEC of 0.00513 μ g/L is less than the calculated C_{PG} of 0.383 μ g/L, the prescribed performance goal for mercury is 0.0051 μ g/L

6.2. For constituents where monitoring data have consistently shown nondetectable levels (less than 20 percent detectable data), performance goals are set at five times the Minimum Levels (MLs) listed in the 2019 Ocean Plan. If the maximum detected effluent concentration is less than the calculated value based on ML, then the MEC is used as the performance goal.

For example, the performance goal for dichloromethane at Discharge Point 002 is calculated as follows:

Dichloromethane

The ratio of detectable data for dichloromethane from April 2017 to July 2021 was 5.56% and the MEC is 2.41 μ g/L. Dichloromethane's minimum ML is 2 μ g/L for the GC/MS method. Therefore, the performance goal is calculated as 5(2 μ g/L) =10 μ g/L. Because the MEC is less than the calculated performance goal based on the minimum ML, the prescribed performance goal for dichloromethane is 2.4 μ g/L.

6.3. For constituents with effluent limitations, if the performance goal derived from the steps, above, exceeds respective effluent limitation, then a performance goal is not prescribed for that constituent.

For example, the performance goals for copper at Discharge Point 002 is calculated as follows:

Copper

 C_o = UCB_{95/95} = 2.45 μg/L; D_m = 84; C_s = background seawater concentration = 2 μg/L; MEC = 98.1 μg/L; C_{PG} = Performance Goal = (2.45 μg/L) + 84(2.45 μg/L - 2 μg/L) = 40.2 μg/L. AMEL=87 μg/L

Since the calculated C_{PG} is less than both MEC and AMEL. The prescribed performance goal for copper is 40 µg/L.

Performance goals for Discharge Point 002 are prescribed in this Order/Permit. The listed performance goals are not enforceable effluent limitations or standards. The Permittee shall maintain, if not improve, its treatment efficiency. Any two consecutive exceedances of the performance goals shall trigger an investigation into the cause of the exceedance. If the exceedance persists in three successive monitoring periods, the Permittee shall submit a written report to the Los Angeles Water Board and USEPA on the nature of the exceedance, the results of the investigation as to the cause of the exceedance, and the corrective actions taken or proposed corrective measures with timetable for implementation, if necessary.

7. RATIONALE FOR RECEIVING WATER LIMITATIONS

7.1. Surface Water

The Ocean Plan and Basin Plan contain numeric and narrative water quality standards applicable to surface waters within the Los Angeles Region. Water quality objectives include a policy to maintain the high-quality waters pursuant to federal regulations (40 CFR § 131.12) and State Water Board Resolution No. 68-16. Receiving water limitations in the Order/Permit are included to ensure protection of beneficial uses of the receiving water.

7.2. Groundwater (Not Applicable)

8. MASS EMISSION BENCHMARKS

To address the uncertainty due to potential increases in toxic pollutant loadings from the Hyperion WRP discharge to the marine environment during the permit term and to establish a framework for evaluating the need for an antidegradation analysis to determine compliance with State and federal antidegradation requirements at the time of permit reissuance, 12-month average mass emission benchmarks have been established for effluent discharged through the 5-Mile Outfall (Discharge Point 002). These mass emission benchmarks are not enforceable water quality-based effluent limitations. They may be re-evaluated and revised during the permit term. The mass emission benchmarks (in metric tons per year; MT/yr) for the Hyperion WRP discharge were determined using the same procedure as described in section 6 of this Fact Sheet for the calculation of the Performance Goals. The concentration-based Performance Goals were calculated using data from April 2017 through September 2021 and were converted to mass-based benchmarks using the Permittee's 1994 influent design flow rate of 420 MGD. The following equation was used for the calculation of the Mass Emission Benchmarks:

MT/yr = (Prescribed Performance Goal, μ g/L) x (Flow, Q, 10⁶ gallons per day) x (3.785 L/gal) x (365 days/yr) x (1 MT/10¹² μ g/L)

9. RATIONALE FOR PROVISIONS

9.1. Standard Provisions

Standard Provisions, which apply to all NPDES permits in accordance with 40 CFR § 122.41, and additional conditions applicable to specified categories of NPDES permits in accordance with 40 CFR § 122.42, are provided in Attachment D of the Order/Permit. Sections 122.41(a)(1) and (b) through (n) of 40 CFR 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/Permit. Section 123.25(a)(12) allows the state to omit or modify conditions to impose more stringent requirements. In accordance with 40 CFR § 123.25, this Order/Permit omits federal conditions that address enforcement authority specified in 40 CFR § 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/Permit incorporates by reference Water Code section 13387(e).

9.2. Special Provisions

9.2.1. Reopener Provisions

These provisions are based on 40 CFR § 123.25. The Los Angeles Water Board and USEPA may reopen the Order/Permit to modify conditions and requirements. Causes for modifications can include, but are not limited to, the promulgation of new regulations, modification in sludge use or disposal practices, or adoption of new regulations by the State Water Board or Los Angeles Water Board, including revisions to the Ocean Plan and Basin Plan.

9.2.2. Special Studies, Technical Reports and Additional Monitoring Requirements

- a. Antidegradation Analysis and Engineering Report for Proposed Plant Expansion. This provision is based on the State Water Board Resolution No. 68- 16, which requires the Los Angeles Water Board to regulate the discharge of waste to maintain high quality waters of the state. The Permittee must demonstrate that it has implemented adequate controls (e.g., adequate treatment capacity) to ensure that high quality waters will be maintained. This provision requires if the Permittee increases plant capacity, it must demonstrate that treatment systems are effective in preventing violations of effluent limitations. This provision requires the Permittee to report specific time schedules for the plant's projects. This provision requires the Permittee to submit a report to the Los Angeles Water Board for approval.
- b. Operations Plan for Proposed Expansion. This provision is based on section 13385(j)(1)(D) of the CWC and allows a time period not to exceed 90 days in which the Permittee may adjust and test the treatment system(s). This provision requires the Permittee to submit an Operations Plan describing the actions the Permittee will take during the period of adjusting and testing to prevent violations.
- c. **Treatment Plant Capacity**. The treatment plant capacity study required by this Order/Permit shall serve as an indicator for the Los Angeles Water Board and USEPA regarding the Facility's increasing hydraulic capacity and growth in the service area.
- d. **Toxicity Reduction Evaluation (TRE) Requirements**. If the discharge consistently exceeds an effluent limitation for toxicity as specified in this Order/Permit, the Permittee shall conduct a TRE as detailed in section 5 of the MRP (Attachment E). The TRE will help the Permittee identify

the possible source(s) of toxicity. The Permittee shall take all reasonable steps to reduce toxicity to the required level.

Order No. R4-2017-0045 required the Discharger, in coordination with the West Basin Municipal Water District, to propose a special study that evaluates the projected effects of water conservation and planned recycling on effluent acute toxicity and ammonia, including a mass balance of nitrogen species through the treatment plant and an assessment of operational alternatives (e.g., treatment optimization, additional treatment, additional dilution credits) to address projected compliance with acute toxicity and ammonia water quality objectives. A final Special Study Work Plan, including a proposed schedule, was submitted to Los Angeles Water Board and USEPA Region 9 on July 26, 2018, and was approved by both on August 8, 2018. The special study final report was submitted to the Los Angeles Water Board and USEPA Region 9 on March 31, 2020. The conclusions from the special study final report include:

- Results of acute toxicity tests of the Hyperion WRP effluent and West Basin brine mixture did not exceed the acute toxicity threshold;
- ii. Ammonia concentrations meeting the 6-monthly median effluent limit (58 mg/L) in Order No. R4-2017-0045 are not expected to be a concern for acute toxicity;
- iii. Since acute toxicity results did not exceed the acute toxicity threshold, there is little evidence to support modifying the treatment process at the Hyperion WRP for future compliance with acute toxicity requirements; and
- iv. The planned implementation of the MBR/RO/AOP processes in 2035 is not expected to cause future permit violations for ammonia nitrogen.

The Discharger has satisfied the requirements for special study on effluent acute toxicity and ammonia. In the future, the Discharger is required to, in coordination with the West Basin Municipal Water District, propose a special study on effluent chronic toxicity if there are significant changes to the effluent quality.

9.2.3. Best Management Practices and Pollution Prevention

a. Spill Clean-Up Contingency Plan (SCCP). Since spills or overflows are a common event at the POTW, this Order/Permit requires the Permittee to review and update, if necessary, its SCCP after each incident. The Permittee shall ensure that the updated SCCP is readily available to the sewage system personnel at all times and that the sewage personnel are familiar with it. b. **Pollutant Minimization Program (PMP).** This provision is based on the requirements of section III.C.9 of the 2019 Ocean Plan.

9.2.4. Construction, Operation and Maintenance Specifications

This provision is based on the requirements of 40 CFR §122.41(e) and the previous Order/Permit. 40 CFR section 122.41(e) also requires the operation of back-up or auxiliary facilities or similar systems when the operation is necessary to achieve compliance with the conditions of the Order/Permit. For proper and effective operation of such facilities or systems, routine maintenance and the operational testing of emergency infrastructure/equipment is necessary. Major sewage spills can cause harm to residents of the Los Angeles region, such as the closure of beaches, and harm to wildlife and benthic life. The impact of any such incident to the receiving waters can be minimized or prevented if the operation of emergency infrastructure occurs unimpeded by operational challenges and in a timely fashion. Thus, this Order/Permit contains requirements for routine maintenance and operational testing of emergency infrastructure/equipment in section 7.3.4.c.

9.2.5. Special Provisions for Publicly Owned Treatment Works (POTWs)

- a. Sludge (Biosolids) Requirements. To implement CWA section 405(d), on February 19, 1993, USEPA promulgated 40 CFR part 503 to regulate the use and disposal of municipal sewage sludge. This regulation was amended on September 3, 1999. The regulation requires that producers of sewage sludge meet certain reporting, handling, and disposal requirements. It is the responsibility of the Permittee to comply with said regulations that are enforceable by USEPA, because California has not been delegated the authority to implement this program. The Permittee is also responsible for compliance with WDRs and NPDES permits for the generation, transport and application of biosolids issued by the State Water Board, other Regional Water Boards, Arizona Department of Environmental Quality or USEPA, to whose jurisdiction the Facility's biosolids will be transported and applied.
- b. **Pretreatment Program Requirements**. This Order/Permit contains pretreatment requirements consistent with applicable effluent limitations, national standards of performance, and toxic and performance effluent standards established pursuant to sections 208(b), 301, 302, 303(d), 304, 306, 307, 403, 404, 405, and 501 of the CWA, and amendments thereto. This Order/Permit contains requirements for the implementation of an effective pretreatment program pursuant to section 307 of the CWA; 40 CFR parts 35 and 403; and/or title 23, CCR section 2233.

c. Spill Reporting Requirements. This Order/Permit established a reporting protocol for how different types of spills, overflow or bypasses of raw or partially treated sewage from its collection system or treatment plant covered by this Order/Permit shall be reported to regulatory agencies.

The State Water Board issued General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order 2006-0003-DWQ (SSS WDRs) on May 2, 2006. The Monitoring and Reporting Requirements for the SSS WDRs were amended by Water Quality Order WQ 2008-0002-EXEC on February 20, 2008 and by State Water Board Order WQ 2013-0058-EXEC on August 6, 2013. The SSS WDRs requires public agencies that own or operate sanitary sewer systems with greater than one mile of pipes or sewer lines to enroll for coverage under the SSS WDRs. The SSS WDRs requires agencies to develop sanitary sewer management plans (SSMPs) and report all sanitary sewer overflows (SSOs), among other requirements and prohibitions.

Furthermore, the SSS WDRs contains requirements for operation and maintenance of collection systems and for reporting and mitigating sanitary sewer overflows. Inasmuch that the Permittee's collection system is part of the system that is subject to this Order/Permit, certain standard provisions are applicable as specified in Provisions, section 6.3.5. For instance, the 24-hour reporting requirements in this Order/Permit are not included in the SSS WDRs. The Permittee must comply with both the SSS WDRs and this Order/Permit. The Permittee and public agencies that are discharging wastewater into the Facility were required to obtain enrollment for regulation under the SSS WDRs by December 1, 2006.

In the past, the Los Angeles Water Board has experienced loss of recreational use in coastal beaches and in recreational areas as a result of major sewage spills. The SSS WDRs requirements are intended to prevent or minimize impacts to receiving waters as a result of spills.

The requirements of this Order/Permit are more stringent that the SSS WDRs because in addition to the SSS WDR requirements, this NPDES permit requires water quality monitoring of the receiving water when the spill reaches the surface water.

10. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

Section 308(a) of the federal Clean Water Act and sections 122.41(h), (j)-(l), 122.44(i), and 122.48 of Title 40 of the Code of Federal Regulations (40 CFR) require that all NPDES permits specify monitoring and reporting requirements. CWC section 13383 also authorize the Los Angeles Water Board to establish monitoring,

reporting, and recordkeeping requirements. The MRP establishes monitoring, reporting, and recordkeeping requirements that implement federal and state requirements. The following provides the rationale for the monitoring and reporting requirements in the MRP for this facility.

10.1. Influent Monitoring

Influent monitoring is required to determine compliance with NPDES permit conditions, assess treatment plant performance, and assess effectiveness of the Pretreatment Program. Influent monitoring in this Order/Permit follows the influent monitoring requirements in the previous Order/Permit with minor changes. The monitoring frequencies for some parameters have been increased due to RP for those parameters.

10.2. Effluent Monitoring

The Permittee is required to conduct monitoring of the permitted discharges in order to evaluate compliance with permit limitations and conditions. Monitoring requirements are specified in the Monitoring and Reporting Program (Attachment E). This Order/Permit requires compliance with the Monitoring and Reporting Program, and is based on 40 CFR § 122.48, 122.44(i), 122.41(j), 122.62, 122.63, and 124.5. The Monitoring and Reporting Program is a standard requirement in almost all NPDES permits (including this Order/Permit) issued by the Los Angeles Water Board or USEPA. In addition to containing definition of terms, it specifies general sampling/analytical protocols and the requirements of reporting spills, violation, and routine monitoring data in accordance with NPDES regulations, the California Water Code, and Los Angeles Water Board and USEPA policies. The Monitoring and Reporting Program also contains sampling program specific for the Permittee's wastewater treatment plant. It defines the sampling stations and frequency, pollutants to be monitored, and additional reporting requirements. Pollutants to be monitored include all pollutants for which effluent limitations are specified. Monitoring for those pollutants expected to be present in the discharge from the facility, will be required as shown on the proposed Monitoring and Reporting Program (Attachment E) and as required in the Ocean Plan. Monitoring frequency for the constituents is based on historic monitoring frequency, Best Professional Judgment, and the following criteria:

<u>Criterion 1</u>: Monthly monitoring will be considered for those pollutants with reasonable potential to exceed water quality objectives (monitoring has shown an exceedance of the objectives);

<u>Criterion 2</u>: Quarterly monitoring will be considered for those pollutants in which some or all historic effluent monitoring data detected the pollutants, but without reasonable potential to exceed water quality objectives; and

<u>Criterion 3</u>: Semiannual monitoring will be considered for those pollutants in which all of the historic effluent monitoring data are not detected and do not have reasonable potential to exceed water quality objectives.

Table F- 13. Effluent Monitoring Frequency Comparison

Parameter	Monitoring Frequency (2017 Order/Permit)	Monitoring Frequency (2022 Order/Permit)	
Flow	Continuous	No Change	
BOD₅20°C	Daily	No Change	
TSS	Daily	No Change	
рН	Weekly	No Change	
O&G	Weekly	No Change	
Temperature	Continuous	No Change	
Total Organic Carbon	Monthly	No Change	
Settleable Solids	Daily	No Change	
Dissolved Oxygen	Weekly	No Change	
Turbidity	Weekly	No Change	
Nitrate Nitrogen	Quarterly	Monthly	
Total Organic Nitrogen	Quarterly	Monthly	
Total Phosphorous (as P)	Quarterly	No Change	
Arsenic	Quarterly	No Change	
Cadmium	Quarterly	No Change	
Chromium (VI)	Semiannually	Quarterly	
Copper	Quarterly for Discharge Point 002 and Monthly for Discharge Point 001	Monthly	
Lead	Quarterly	No Change	
Mercury	Quarterly	No Change	
Nickel	Quarterly	No Change	
Selenium	Quarterly	No Change	
Silver	Quarterly	No Change	
Zinc	Quarterly	No Change	
Cyanide, Total	Quarterly	Semiannually	
Total Chlorine Residual (Discharge Point 001 Only)	Daily	No Change	
Ammonia (as N)	Monthly	No Change	
		N. O.	
Chronic Toxicity	Monthly	No Change	
Chronic Toxicity Phenols, Non-chlorinated	Monthly Semiannually	No Change Quarterly	
•	•		

ATTACHMENT F – FACT SHEET TENTATIVE ORDER: 8/30/2022

Parameter	Monitoring Frequency (2017 Order/Permit)	Monitoring Frequency (2022 Order/Permit)		
Endrin	Semiannually	No Change		
HCH	Semiannually	No Change		
Radioactivity (including gross alpha, gross beta, combined radium-226 & radium-228, tritium, strontium-90 and uranium)	Quarterly	No Change		
Acrolein	Semiannually	No Change		
Antimony	Quarterly	No Change		
Bis(2-chloroethoxy) methane	Semiannually	No Change		
Bis(2-chloroisopropyl) ether	Semiannually	No Change		
Chlorobenzene	Semiannually	No Change		
Chromium (III)	Quarterly	No Change		
Di-n-butyl-phthalate	Quarterly	No Change		
Dichlorobenzenes	Quarterly	Semiannually		
Diethyl phthalate	Semiannually	No Change		
Dimethyl phthalate	Semiannually	No Change		
4,6-dinitro-2-methylphenol	Semiannually	No Change		
2,4-Dinitrophenol	Semiannually	Quarterly		
Ethylbenzene	Semiannually	No Change		
Fluoranthene	Semiannually	No Change		
Hexachlorocyclopentadiene	Semiannually	No Change		
Nitrobenzene	Quarterly	Semiannually		
Thallium	Quarterly	No Change		
Toluene	Quarterly	No Change		
Tributyltin	Quarterly	No Change		
1,1,1-Trichloroethane	Semiannually	No Change		
Acrylonitrile	Semiannually	No Change		
Aldrin	Semiannually	No Change		
Benzene	Semiannually	No Change		
Benzidine	Semiannually	No Change		
Beryllium	Quarterly	No Change		
Bis(2-chloroethyl) ether	Semiannually	No Change		
Bis(2-ethylhexyl) phthalate	Quarterly	No Change		

Parameter	Monitoring Frequency (2017 Order/Permit)	Monitoring Frequency (2022 Order/Permit)
Carbon tetrachloride	Semiannually	No Change
Chlordane	Semiannually	Quarterly
Chlorodibromomethane	Quarterly	No Change
Chloroform	Quarterly	No Change
DDT	Quarterly	No Change
1,4-dichlorobenzene	Semiannually	No Change
3,3'-dichlorobenzidine	Semiannually	No Change
1,2-Dichloroethane	Semiannually	No Change
1,1-Dichloroethylene	Semiannually	No Change
Dichlorobromomethane	Quarterly	No Change
Dichloromethane	Quarterly	No Change
1,3-Dichloropropene	Semiannually	No Change
Dieldrin	Semiannually	No Change
2,4-dinitrotoluene	Semiannually	No Change
1,2-diphenylhydrazine	Semiannually	No Change
Halomethanes	Quarterly	No Change
Heptachlor	Semiannually	No Change
Heptachlor epoxide	Semiannually	No Change
Hexachlorobenzene	Semiannually	No Change
Hexachlorobutadiene	Semiannually	No Change
Hexachloroethane	Semiannually	No Change
Isophorone	Quarterly	Semiannually
N-Nitrosodimethylamine	Quarterly	No Change
N-Nitrosodi-N-propylamine	Semiannually	No Change
N-Nitrosodiphenylamine	Semiannually	No Change
PAHs	Quarterly	Semiannually
PCBs as Aroclors	Quarterly	No Change
PCBs as Congeners	Annually	Quarterly
TCDD Equivalents	Semiannually	Monthly
1,1,2,2-Tetrachloroethane	Semiannually	No Change
Tetrachloroethylene	Quarterly	No Change
Toxaphene	Semiannually	No Change
Trichloroethylene	Semiannually	No Change
1,1,2-Trichloroethane	Semiannually	No Change

Parameter	Monitoring Frequency (2017 Order/Permit)	Monitoring Frequency (2022 Order/Permit)
2,4,6-Trichlorophenol	Quarterly	Semiannually
Vinyl chloride	Semiannually	No Change
Methyl-tert-butyl-ether	Quarterly	No Change

The National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service (NMFS) issued a final biological opinion dated on April 10, 2018 for Hyperion WRP, and another final biological opinion dated June 16, 2022 for a nearby southern California discharger, both of which provide results of its review of potential effects of the discharge on federally listed threatened and endangered species, and essential fish habitat, that are applicable to the discharges from Hyperion WRP. The biological opinion identifies individual species that could potentially uptake or accumulate persistent organic pollutants (e.g., PCBs, organophosphate flame retardants, and PFAS) that may be present in treated wastewater discharged to the receiving water. This uptake and/or accumulation could increase their body burden of these contaminants and the risk of incurring adverse effects on their growth, reproduction, and overall health and survival over a shorter time period than would otherwise occur absent the discharge. NMFS' analysis focused on the apparently increasing threat associated with accumulation of organophosphate flame retardants, given the recent literature describing the potential harm organophosphate flame retardants and PFAS can have on numerous federally listed threatened and endangered species, and their known association with wastewater discharge in general. The Terms and Conditions in the NMFS biological opinion include effluent monitoring for organophosphate flame retardants and PFAS that is included in the MRP of this Order/Permit.

The proposed monitoring requirements for PFAS compounds are also consistent with EPA's PFAS Action Plan (dated June 15, 2022) and PFAS Strategic Roadmap (October 2021) that describe that EPA's goals of reducing PFAS discharges to waterways. This includes proposing monitoring requirements in federally issued NPDES permits, such as this joint issued NPDES permit.

In 2018, the National Marine Fisheries Service issued a biological opinion that contained reasonable and prudent measures, which are nondiscretionary measures that are necessary or appropriate to minimize the impact of the amount or extent of incidental take (50 CFR 402.02). One of those reasonable and prudent measures required monitoring to evaluate the effects of Hyperion's discharge on the frequency and extent of harmful algal blooms in the Bay that may affect ESA-listed species. The National Marine Fisheries Service also estimated the amount of incidental take in terms of total nitrogen (i.e., 9,900 kg of N per km2 per year or 15.6 million kg per year).

Therefore, per the 2017 permit, the Discharger was required to monitor all forms of nitrogen and provide an estimation of total nitrogen discharged on an annual basis. The Discharger submitted a special study on March 2020 that estimated the total nitrogen load to be 91,000 lbs/day. By 2035, upgrades to the Hyperion Water Reclamation Plant are expected to be completed to recycle the majority of the effluent and the estimated total nitrogen load in the Hyperion Water Reclamation Plant's effluent is projected to decrease to 4,700 lbs/day.

Since the incidental take statement is expressed in terms of nitrogen loads as well as the fact that harmful algal blooms are still a frequent occurrence in Santa Monica Bay, the permit continues to require annual reporting of total nitrogen loads to the receiving water. This requirement also is consistent with other Southern California (i.e. Point Loma and Orange County Sanitation District) POTW permits, as a larger effect to understand functional plankton diversity, harmful algal blooms, and micronutrient dynamics in the Southern California Bight (i.e. SCCWRP's ROMS-BEC modeling efforts).

10.3. Whole Effluent Toxicity Testing Requirements

The rationale for WET has been discussed extensively in Section 5.5.6. of this Fact Sheet.

10.4. Receiving Water Monitoring

10.4.1. Surface Water

Receiving water monitoring is required to determine compliance with receiving water limitations and to characterize the water quality of the receiving water. Requirements are based on the Ocean Plan and the Basin Plan. The conceptual framework for the receiving water program has three components that comprise a range of spatial and temporal scales: (a) core monitoring; (b) regional monitoring; and (c) special studies.

- a. Core monitoring is local in nature and focused on monitoring trends in water quality and the effect of the point source discharge on the receiving water. This includes effluent monitoring as well as many aspects of receiving water monitoring. In the monitoring program described below these core components are typically referred to as local monitoring.
- b. Regional monitoring is focused on questions that are best answered by a regionwide approach that incorporates coordinated survey design and sampling techniques. The major objective of regional monitoring is to collect information required to assess how safe it is to swim in the ocean, how safe it is to eat seafood from the ocean, and whether the marine ecosystem is being protected. Key components of regional monitoring include elements to address

pollutant mass emission estimations, public health concerns, monitoring of trends in natural resources, assessment of regional impacts from all contaminant sources, and protection of beneficial uses. The final design of regional monitoring programs is developed by means of steering committees and technical committees comprised of participating agencies and organizations and is not specified in this Order/Permit. Instead, for each regional component, the degree and nature of participation of the Permittee is specified. For this Order/Permit, these levels of effort are based upon the Permittee's past participation in regional monitoring programs.

The Permittee shall participate in regional monitoring activities coordinated by the SCCWRP or any other appropriate agency approved by the Los Angeles Water Board and USEPA. The procedures and timelines for the Regional Water Board and USEPA approval shall be the same as detailed for special studies, below.

- c. Special studies are focused on refined questions regarding specific effects or development of monitoring techniques and are anticipated to be of short duration and/or small scale, although multiyear studies also may be needed. Questions regarding effluent or receiving water quality, discharge impacts, ocean processes in the area of the discharge, or development of monitoring techniques, arising out of the results of core or regional monitoring, may be pursued through special studies. These studies are by nature ad hoc and cannot be typically anticipated in advance of the five-year permit cycle. The Permittee, the Los Angeles Water Board and USEPA shall consult annually to determine the need for special studies. Each year, the Permittee shall submit proposals for any proposed special studies to the Los Angeles Water Board and USEPA by December 31, for the following year's monitoring effort (July through June). The following year, detailed scopes of work for proposals, including reporting schedules, shall be presented by the Permittee at a Spring Regional Water Board meeting, to obtain the Los Angeles Water Board approval and to inform the public. Upon approval by the Los Angeles Water Board and USEPA, the Permittee shall implement its special study or studies.
- d. The receiving water monitoring program contains the following core and regional components: Inshore and offshore water quality monitoring; benthic infauna and sediment chemistry monitoring; fish and macroinvertebrate (trawl and rig fishing) monitoring, including bioaccumulation/seafood safety; and kelp bed monitoring. Local and regional survey questions, sampling designs, monitoring locations, and other specific monitoring requirements are detailed in the MRP.

10.4.2. Groundwater (Not Applicable)

ATTACHMENT F – FACT SHEET TENTATIVE ORDER: 8/30/2022

10.5. Other Monitoring Requirements

10.5.1. Outfall and Diffuser Inspection

This survey investigates the condition of the outfall structures to determine if the structures are in serviceable condition to ensure their continued safe operation. The data collected will be used for a periodic assessment of the integrity of the outfall pipes and ballasting system.

10.5.2. Biosolids and Sludge Management

Attachment H establishes monitoring and reporting requirements for the storage, handling and disposal practices of biosolids/sludge generated from the operation of this POTW.

10.5.3. Discharge Monitoring Report Quality Assurance (DMR-QA) Study Program

Under the authority of section 308 of the CWA (33 U.S.C. § 1318), USEPA requires major and selected minor dischargers under the NPDES Program to participate in the annual DMR-QA Study Program. The DMR-QA Study evaluates the analytical ability of laboratories that routinely perform or support self-monitoring analyses required by NPDES permits. There are two options to satisfy the requirements of the DMR-QA Study Program: (1) The Discharger can obtain and analyze a DMR-QA sample as part of the DMR-QA Study; or (2) Per the waiver issued by USEPA to the State Water Board, the Discharger can submit the results of the most recent Water Pollution Performance Evaluation Study from its own laboratories or its contract laboratories. A Water Pollution Performance Evaluation Study is similar to the DMR-QA Study. Thus, it also evaluates a laboratory's ability to analyze wastewater samples to produce quality data that ensure the integrity of the NPDES Program. The Discharger shall ensure that the results of the DMR-QA Study or the results of the most recent Water Pollution Performance Evaluation Study are submitted annually to the State Water Board. The State Water Board's Quality Assurance Program Officer will send the DMR-QA Study results or the results of the most recent Water Pollution Performance Evaluation Study to USEPA's DMR-QA Coordinator and Quality Assurance Manager.

11. CONSIDERATION OF NEED TO PREVENT NUISANCE AND WATER CODE SECTION 13241 FACTORS

One of the provisions/requirements in this Order/Permit (subsection 4.3 of the Order) is included to implement state law. This provision/requirement is 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. As required by Water Code section 13263, the Los Angeles Water Board has considered the need to prevent nuisance and the factors

listed in Water Code section 13241 in establishing the state law provisions/requirements. The Los Angeles Water Board finds, on balance, that the state law requirements in this Order/Permit are reasonably necessary to prevent nuisance and to protect beneficial uses identified in the Basin Plan, and the section 13241 factors are not sufficient to justify failing to protect those beneficial uses.

- 11.1. Need to prevent pollution or nuisance: In establishing effluent limitations in this Order/Permit, the Los Angeles Water Board has considered state law to prevent pollution or nuisance as defined in section 13050, subdivisions (I) and (m), of the Water Code. The only requirement in this Order/Permit that is based on state law is a study to investigate the feasibility of recycling, conservation, and/or alternative disposal methods for wastewater (such as groundwater injection), and/or capture and treatment of dry-weather urban runoff and stormwater on a permissive basis for beneficial reuse. This report will allow the Los Angeles Water Board to determine if and how to prevent pollution from any recycling or conservation program that might be implemented in the future.
- 11.2. Past, present, and probable future beneficial uses of water: Chapter 2 of the Basin Plan identifies designated beneficial uses for water bodies in the Los Angeles Region. Beneficial uses of water relevant to this Order/Permit are also identified above in Table F-4. The Los Angeles Water Board has taken this factor into account in establishing requirements in this Order/Permit, including the requirement set forth in section 4.3. The feasibility study will not affect the past or present beneficial uses of water, but it could affect the future beneficial uses of water. Should the Discharger be required to implement the feasibility study, any recycled water that may be produced will have to meet all legal requirements, including those set forth in Title 22 to protect beneficial uses. The requirements herein protect the past, present and probable future beneficial uses of the water.
- 11.3. Environmental characteristics of the hydrographic unit under consideration, including the quality of water available thereto: The environmental characteristics of this watershed are discussed in the Basin Plan, the Region's Watershed Management Initiative Chapter, and are also available in State of the Watershed reports and the State's CWA section 303(d) List of impaired waters. The environmental characteristics of the hydrographic unit, including the quality of available recycled water that may be produced as a result of the feasibility study, will be improved by compliance with the requirements of this Order/Permit. Additional information on the Santa Monica Bay Watershed Management Area is available at:
 - https://www.waterboards.ca.gov/losangeles/water_issues/programs/regional_program/watershed/.
- 11.4. Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area: The water quality standards necessary to protect beneficial uses of the Santa

Monica Bay Watershed Management Area can reasonably be achieved through the coordinated control of all factors that affect water quality in the area, including the conservation of water and/or the production of recycled water contemplated in the feasibility study. For example, the water quality in the watershed could be improved through the addition of recycled water which meets Title 22 standards. The Los Angeles Water Board has taken this factor into account in establishing effluent limitations in the Order/Permit.

- 11.5. Economic considerations: The Permittee did not present any evidence regarding economic considerations related to this Order/Permit. However, the Los Angeles Water Board has considered the economic impact of requiring certain provisions pursuant to state law, and in conjunction with the applicable TMDLs incorporated into this Order/Permit. The only cost here would be the cost of producing the feasibility study. Any additional costs associated with producing the study are reasonably necessary to prevent nuisance and protect beneficial uses identified in the Basin Plan, and to increase the water supply. The failure to consider conservation or recycled water could result in the loss of, or impacts to, beneficial uses would have a detrimental economic impact, particularly given the effects on beneficial uses and supplies of water from the drought and climate change. Economic considerations related to costs of compliance are therefore not sufficient, in the Los Angeles Water Board's determination, to justify failing to prevent nuisance and protect beneficial uses.
- 11.6. Need for developing housing within the region: The Los Angeles Water Board does not anticipate that the state law requirements in this Order/Permit will adversely impact the need for housing in the area. The region generally relies on imported water to meet many of its water resource needs. Imported water makes up a vast majority of the region's water supply, with local groundwater, local surface water, and reclaimed water making up the remaining amount. This Order/Permit helps address the need for housing by controlling pollutants in discharges, which will improve the quality of local surface and ground water, as well as water available for recycling and reuse. This in turn may reduce the demand for imported water thereby increasing the region's capacity to support continued housing development. A reliable water supply for future housing development is required by law, and with less imported water available to guarantee this reliability, an increase in local supply is necessary. Therefore, the potential for developing housing in the area will be facilitated by the conservation of water, or reuse or production of, recycled water that may result from the feasibility study.
- 11.7. Need to develop and use recycled water: The State Water Board's Recycled Water Policy requires the Los Angeles Water Board to encourage the use of recycled water. In addition, as discussed immediately above, a need to develop and use recycled water exists within the region, especially during times of drought. To encourage recycling, the Permittee is required by this Order/Permit to continue to explore the feasibility of recycling to maximize the

beneficial reuse of tertiary treated effluent and to report on its recycled water production and use. The Discharger shall submit an update to this feasibility study as part of the submittal of the Report of Waste Discharge (ROWD) for the next permit renewal.

12. PUBLIC PARTICIPATION

The Los Angeles Water Board and the USEPA have considered the issuance of WDRs that will serve as an NPDES Order/Permit for the Hyperion WRP. As a step in the WDRs and Order/Permit adoption process, the Regional Water Board and USEPA staff have developed tentative WDRs and NPDES Order/Permit and has encouraged public participation in the WDRs and Order/Permit adoption process.

12.1. Notification of Interested Parties

The Los Angeles Water Board and USEPA have notified the Permittee and interested agencies and persons of its intent to prescribe WDRs and NPDES Order/Permit for the discharge and provided an opportunity to submit written comments and recommendations. The public notice and TENTATIVE ORDER were posted on the Los Angeles Water Board's website at https://www.waterboards.ca.gov/losangeles/board_decisions/tentative_orders/index.html under the "Tentative Permits" heading. Permittee notification was provided by posting a copy of the notice at the entrance of the Hyperion WRP, 12000 Vista del Mar Boulevard, Playa del Rey, CA 90293. In addition, interested agencies and persons were notified through a transmittal email to the Discharger, being included in the email transaction, of the Los Angeles Water Board's intention to prescribe WDRs for the discharge.

The public had access to the agenda and any changes in dates and locations through the <u>Los Angeles Water Board's website</u> at: http://www.waterboards.ca.gov/losangeles/board_info/agenda/index.html.

12.2. Written Comments

Interested persons were invited to submit written comments concerning the tentative WDRs and NPDES Order/Permit as provided through the notification process. Comments were due either in person or by mail to the Los Angeles Water Board Executive Officer and the USEPA Region 9 Water Division Director at the addresses on the cover page of this Order/Permit, or by email submitted to Xiaofei.Cui@waterboards.ca.gov and Kozelka.Peter@epa.gov.

To be fully responded to by staff and considered by the Los Angeles Water Board and USEPA, the written comments were encouraged to be submitted to the Los Angeles Water Board and USEPA office by 5:00 p.m. on September 29, 2022; however, written and oral public comments were also accepted until the close of the public hearing at the Los Angeles Water Board's regular Board meeting on October 13, 2022.

12.3. Public Hearing

The Los Angeles Water Board and USEPA held a joint public hearing on the tentative WDRs and NPDES Order/Permit during its regular Board meeting on the following date and time, and at the following location:

Date: October 13, 2022

Time: 9:00 a.m.

Location: Paramount City Hall

16400 Colorado Avenue Paramount, CA 90723

A virtual platform was also available for those who wanted to join online. The directions were provided in the agenda to register or to view the Board meeting.

Additional information about the location of the hearing and options for participating were available 10 days before the hearing. Any person desiring to receive future notices about any proposed Board action regarding this Discharger, please contact Xiaofei Cui at xiaofei.cui@waterboards.ca.gov, to be included on the email list.

Interested persons were invited to attend. At the public hearing, the Los Angeles Water Board heard testimony pertinent to the discharge, WDRs and NPDES Order/Permit. For accuracy of the record, important testimony was requested in writing; however, neither the Los Angeles Water Board nor the USEPA Region 9 adopted the WDRs and Order/Permit at that hearing because USEPA hearing procedures require adoption to occur at a subsequent hearing after responding to comments received.

The Los Angeles Water Board held a second public hearing on the tentative WDRs and NPDES Order/Permit to address comments received during the public comment period before being considered for adoption during its regular Board meeting on the following date and time, and at the following location:

Date: February 9, 2023

Time: 9:00 a.m. Location: TBD

A virtual platform was also available for those who wanted to join online. The directions were provided in the agenda to register or to view the Board meeting.

Additional information about the location of the hearing and options for participating were available 10 days before the hearing. Any person desiring to receive future notices about any proposed Board action regarding this Discharger, please contact Xiaofei Cui at xiaofei.cui@waterboards.ca.gov, to be included on the email list.

Interested persons were invited to attend; however, since the comment period ended on October 13, 2022, oral testimony pertinent to the waste discharge, WDRs and NPDES Order/Permit were not allowed at the second public hearing. The Los Angeles Water Board considered the adoption of the Order/Permit at the second hearing.

12.4. Review of Waste Discharge Requirements

Any person aggrieved by the adoption of the WDRs and Order/Permit may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition by 5:00 pm within 30 calendar days of the date of adoption of this Order/Permit at the following address, except that if the thirtieth day following the date of this Order/Permit falls on a Saturday, Sunday, or State Holiday, the petition must be reviewed the by the State Water Board by 5:00 pm on the next business day:

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

Or by email at waterqualitypetitions@waterboards.ca.gov

For <u>instructions</u> on how to file a petition for review, see http://www.waterboards.ca.gov/public_notices/petitions/water_quality/wqpetition_instr.shtml. Filing a petition does not automatically stay any of the requirements of this Order/Permit

12.5. Federal NPDES Permit Appeals

When USEPA issues a final NPDES permit, it becomes effective on its effective date unless a request for review is filed. Those persons filing a request for review must have filed comments on this draft NPDES permit, or participated in a public hearing on this matter except as provided in 40 CFR section 124.19. Otherwise, any such request for review may be filed only to the extent of changes from the draft permit to the final permit. If a request for review is filed, only those permit conditions which are uncontested will go into effect pending disposition of the request for review. Requests for review must be filed within 33 days following the date the final permit is mailed and must meet the requirements of 40 CFR part 124.19. All requests for review should be addressed to the Environmental Appeals Board (EAB) as follows. Requests sent through the U.S. Postal Service (except by Express Mail) must be addressed to the EAB's mailing address, which is:

U.S. Environmental Protection Agency Clerk of the Board Environmental Appeals Board (MC 1103B)

ORDER R4-2023-XXX NPDES NO. CA0109991

Ariel Rios Building 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460-0001

All filings delivered by hand or courier, including Federal Express, UPS, and US Postal Express Mail, should be directed to the following address:

Environmental Appeals Board US Environmental Protection Agency Colorado Building 1341 G Street, N.W., Suite 600 Washington, D.C. 20460

Those persons filing a request for review must have filed comments on the draft permit or participated in the public hearing. Otherwise, any such request for review may be filed only to the extent of changes from the draft to the final permit decision.

12.6. Information and Copying

The Report of Waste Discharge (ROWD), other supporting documents, and comments received are on file and may be inspected at the address below any time between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Los Angeles Water Board at the address below or by calling (213) 576-6600, or USEPA at (415) 972-3524.

Los Angeles Regional Water Quality Control Board 320 W 4th Street, Suite 200 Los Angeles, CA 90013-2343

United States Environmental Protection Agency 75 Hawthorne Street San Francisco, CA 94105-3901

12.7. 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 Los Angeles Water Board, reference this facility, and provide a name, address, and phone number.

12.8. Additional Information

Requests for additional information or questions regarding this Order/Permit should be directed to Xiaofei Cui at (213) 576-6696 or at Xiaofei Cui@waterboards.ca.gov or R9NPDES@epa.gov or (415) 972-3448.

ATTACHMENT G - TOXICITY REDUCTION EVALUATION (TRE) WORK PLAN

- 1. Gather and Review Information and Data
 - 1.1. POTW Operation and Performance
 - 1.2. POTW Influent and Pretreatment Program
 - 1.3. Effluent Data, including Toxicity Results
 - 1.4. Sludge (Biosolids) Data
- 2. Evaluate Facility Performance
- 3. Conduct Toxicity Identification Evaluation (TIE)
- 4. Evaluate Sources and In-Plant Controls
- 5. Implement Toxicity Control Measures
- 6. Conduct Confirmatory Toxicity Testing

ATTACHMENT H - BIOSOLIDS AND SLUDGE MANAGEMENT

(Note: "Biosolids" refers to non-hazardous sewage sludge as defined in 40 CFR §503.9. Sewage sludge that is hazardous, as defined in 40 CFR part 261, must be disposed of in accordance with the Resource Conservation and Recovery Act (RCRA).)

1. GENERAL REQUIREMENTS

- 1.1. All biosolids generated by the Permittee shall be reused or disposed of in compliance with the applicable portions of:
 - a. 40 CFR part 503: for biosolids that are land applied, placed in surface disposal sites (dedicated land disposal sites or monofills), or incinerated; 40 CFR § 503 Subpart B (land application) applies to biosolids placed on the land for the purposes of providing nutrients or conditioning the soil for crops or vegetation. 40 CFR § 503 Subpart C (surface disposal) applies to biosolids placed on land for the purpose of disposal.
 - b. 40 CFR part 258: for biosolids disposed of in a municipal solid waste landfills.
 - c. 40 CFR part 257: for all biosolids use and disposal practices not covered under 40 CFR parts 258 or 503.
- 1.2. The Permittee is responsible for assuring that all biosolids from its facility are used or disposed of in accordance with 40 CFR part 503, whether the Permittee uses or disposes of the biosolids itself or transfers their biosolids to another party for further treatment, reuse, or disposal. The Permittee is responsible for informing subsequent preparers, appliers, and disposers of requirements they must meet under 40 CFR part 503.
- 1.3. Duty to mitigate: The Permittee shall take all reasonable steps to prevent or minimize any biosolids use or disposal which may adversely impact human health or the environment.
- 1.4. No biosolids shall be allowed to enter wetland or other waters of the United States.
- 1.5. Biosolids treatment, storage, and use or disposal shall not contaminate groundwater.
- 1.6. Biosolids treatment, storage, use or disposal shall not create a nuisance such as objectionable odors or flies.
- 1.7. The Permittee shall assure that haulers transporting biosolids off site for further treatment, storage, reuse, or disposal take all necessary measures to keep the biosolids contained.
- 1.8. If biosolids are stored for over two years from the time they are generated, the Permittee must ensure compliance with all the requirements for surface disposal under 40 CFR part 503 Subpart C, or must submit a written request to USEPA with the information in part 503.20 (b), requesting permission for longer temporary storage.

- 1.9. Sewage sludge containing more than 50 mg/kg PCBs shall be disposed of in accordance with 40 CFR part 761.
- 1.10. Any off-site biosolids treatment, storage, use, or disposal site operated by the Permittee within Region 4 (Los Angeles Region of RWQCB) that is not subject to its own Waste Discharge Requirements shall have facilities adequate to divert surface runoff from the adjacent area, to protect the site boundaries from erosion, and to prevent any conditions that would cause drainage from the materials in the disposal site to escape from the site. Adequate protection is defined as protected from at least a 100-year storm and from the highest tidal stage that may occur.
- 1.11. There shall be adequate screening at the plant headworks and/or at the biosolids treatment units to ensure that all pieces of metal, plastic, glass, and other inert objects with a diameter greater than 3/8 inches are removed.

2. INSPECTION AND ENTRY

The Los Angeles Water Board, USEPA or an authorized representative thereof, upon the presentation of credentials, shall be allowed by the Permittee, directly or through contractual arrangements with their biosolids management contractors, to:

- a. enter upon all premises where biosolids are produced by the Permittee and all premises where Permittee biosolids are further treated, stored, used, or disposed, either by the Permittee or by another party to whom the Permittee transfers the biosolids for further treatment, storage, use, or disposal;
- b. have access to and copy any records that must be kept under the conditions of this permit or of 40 CFR part 503, by the Permittee or by another party to whom the Permittee transfers the biosolids for further treatment, storage, use, or disposal; and
- c. inspect any facilities, equipment (including monitoring and control equipment), practices, or operations used in the production of biosolids and further treatment, storage, use, or disposal by the Permittee or by another party to whom the Permittee transfers the biosolids for further treatment, storage, use, or disposal.

3. MONITORING

3.1. Biosolids shall be monitored for the metals required in 40 CFR § 503.16 (for land application) or § 503.26 (for surface disposal), using the methods in "Test Methods for Evaluating Solids Waste, Physical/Chemical Methods" (SW-846), as required in 503.8(b)(4), at the following minimum frequencies:

Amount of Sewage Sludge (Metric Tons per 365 days)	Frequency
Greater than 0 but less than 290	
	Once per year

Amount of Sewage Sludge (Metric Tons per 365 days)	Frequency
Equal to or greater than 290 but less than 1,500	
	Once per quarter
Equal to or greater than 1,500 but less than 15,000	Once per 60 days
Equal to or greater than 15,000	Once per month

For accumulated, previously untested biosolids, the Permittee shall develop a representative sampling plan, which addresses the number and location of sampling points, and collect representative samples.

Test results shall be expressed in milligrams pollutant per kilogram biosolids on a 100% dry weight basis.

Biosolids to be land applied shall be tested for organic nitrogen, ammonia nitrogen, and nitrate nitrogen at the frequencies required above.

- 3.2. Biosolids shall be monitored for the following constituents at the frequency stipulated in 40 CFR § 503.16: arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, organic nitrogen, ammonia nitrogen, and total solids. If biosolids are removed for use or disposal on a routine basis, sampling should be scheduled for regular intervals throughout the year. If biosolids are stored for an extended period prior to use or disposal, sampling may occur at regular intervals, or samples of the accumulated stockpile may be collected prior to use or disposal, corresponding to the tons accumulated in the stockpile for that period.
- 3.3. Class 1 facilities (facilities with pretreatment programs or others designated as Class 1 by the Regional Administrator) and Federal facilities with > 5 MGD influent flow shall sample biosolids for pollutants listed under section 307 (a) of the Clean Water Act (as required in the pretreatment section of the permit for POTWs with pretreatment programs). Class 1 facilities and Federal Facilities with > 5 MGD influent flow shall test dioxins/dibenzofurans using a detection limit of < 1 pg/g during their next sampling period if they have not done so within the past 5 years and once per 5 years thereafter.</p>
- 3.4. The biosolids shall be tested annually or more frequently if necessary to determine hazardousness in accordance with California Law.

4. PATHOGEN AND VECTOR CONTROL

4.1. Prior to land application, the Permittee shall demonstrate that the biosolids meet Class A or Class B pathogen reduction levels by one of the methods listed in 40 CFR § 503.32. Prior to disposal in a surface disposal site, the Permittee shall demonstrate that the biosolids meet Class B levels or shall ensure that the site is covered at the end of each operating day.

- 4.2. If pathogen reduction is demonstrated using a "Process to Further Reduce Pathogens," the Permittee shall maintain daily records of the operating parameters used to achieve this reduction. If pathogen reduction is demonstrated by testing for fecal coliform and/or pathogens, samples must be collected at the frequency specified in Table 1 of 40 CFR § 503.16. If Class B is demonstrated using fecal coliform, at least seven grab samples must be collected during each monitoring period and a geometric mean calculated from these samples. The following holding times between sample collection and analysis shall not be exceeded: fecal coliform 6 hours when cooled to <4 degrees Celsius (extended to 24 hours when cooled to <4 degrees Celsius for Class A composted, Class B aerobically digested, and Class B anaerobically digested sample types); Salmonella spp. Bacteria 24 hours when cooled to <4 degrees Celsius (unless using Method 1682 6 hours when cooled to 10 degrees Celsius); enteric viruses 6 hours when cooled to <10 degrees Celsius (extended to one month when cooled to <4 degrees Celsius).</p>
- 4.3. For biosolids that are land applied or placed in a surface disposal site, the Permittee shall track and keep records of the operational parameters used to achieve Vector Attraction Reduction requirements in 40 CFR § 503.33 (b).

5. LAND APPLICATION

The Permittee shall ensure that Class A thermophilically digested biosolids are applied at a rate not to exceed the agronomic rate for the crop that is grown.

6. SURFACE DISPOSAL

If biosolids are placed in a surface disposal site (dedicated land disposal site or monofill), a qualified groundwater scientist shall develop a groundwater monitoring program for the site or shall certify that the placement of biosolids on the site will not contaminate an aquifer.

7. NOTIFICATION

The Permittee either directly or through contractual arrangements with their biosolids management contractors shall comply with the following 40 CFR part 503 notification requirements.

7.1. Notification of Non-compliance

The Permittee shall require appliers of their biosolids to notify USEPA Region 9 and their state permitting agency of any noncompliance within 24 hours if the noncompliance may seriously endanger health or the environment. For other instances of non-compliance, the Permittee shall require appliers of their biosolids to notify USEPA Region 9 and their state permitting agency of the non-compliance in writing within 10 working days of becoming aware of the non-compliance.

7.2. Interstate Notification

If bulk biosolids are shipped to another State or to Indian Lands, the Permittee must send written notice within 60 days of the shipment and prior to the initial application of bulk biosolids to the permitting authorities in the receiving State or Indian Land (the USEPA Regional Office for the area and the State/Indian authorities).

7.3. Land Application Notification

A reuse/disposal plan shall be submitted to USEPA Region 9 Coordinator and, in the absence of other state or regional reporting requirements, to the state permitting agency, prior to the use or disposal of any biosolids from this facility to a new or previously unreported site. The plan shall be submitted by the land applier of the biosolids and shall include a description and a topographic map of the proposed site(s) for reuse or disposal, names and addresses of the applier(s) and site owner(s), and a list of any state or local permits which must be obtained. For land application sites, the plan shall include a description of the crops or vegetation to be grown, proposed nitrogen loadings to be used for the crops, a determination of agronomic rates, and a groundwater monitoring plan or a description of why groundwater monitoring is not required.

If the biosolids do not meet 40 CFR § 503.13 Table 3 metals concentration limits, the Permittee must require their land applier to contact the state permitting authority to determine whether bulk biosolids subject to the cumulative pollutant loading rates in 40 CFR § 503.12(b)(2) have been applied to the site since July 20, 1993, and, if so, the cumulative amount of pollutants applied to date, and background concentration, if known. The Permittee shall then notify USEPA Region 9 Coordinator of this information.

For biosolids that are land applied, the Permittee shall notify the applier in writing of the nitrogen content of the biosolids, and the applier's requirements under 40 CFR part 503, including the requirements that the applier certify that the requirement to obtain information in Subpart A, and that the management practices, site restrictions, and any applicable vector attraction reduction requirements Subpart D have been met. The Permittee shall require the applier to certify at the end of 38 months following application of Class B biosolids that those harvesting restrictions in effect for up to 38 months have been met.

7.4. Surface Disposal Notification

Prior to disposal at a new or previously unreported site, the Permittee shall notify USEPA and the State. The notice shall include a description and topographic map of the proposed site, depth to groundwater, whether the site is lined or unlined, site operator and site owner, and any state or local permits. It shall also describe procedures for ensuring grazing and public access restrictions for three years following site closure. The notice shall include a groundwater monitoring plan or description of why groundwater monitoring is not required.

8. REPORTING

The Permittee shall submit an annual biosolids report to USEPA Region 9 Biosolids Coordinator and the Los Angeles Regional Water Quality Control Board by February 19 of each calendar year. The report shall include:

- 8.1. The amount of biosolids generated that year, in dry metric tons, and the amount accumulated from previous years.
- 8.2. Results of all pollutant monitoring required in the Monitoring Section above. Results must be reported on a 100% dry weight basis.
- 8.3. Descriptions of pathogen reduction methods, and vector attraction reduction methods, as required in 40 CFR § 503.17 and 503.27, and certifications.
- 8.4. Results of any groundwater monitoring or certification by groundwater scientist that the placement of biosolids in a surface disposal site will not contaminate an aquifer.
- 8.5. Names and addresses of land appliers and surface disposal site operators, and volumes applied (dry metric tons).
- 8.6. Names and addresses of persons who received biosolids for storage, further treatment, disposal in a municipal waste landfill, deep well injection, or other reuse/disposal methods not covered above, and volumes delivered to each.
- 8.7. The Permittee shall submit, or require all parties contracted to manage their biosolids to submit, an annual biosolids report to USEPA Region 9 Biosolids Coordinator by February 19 of each year for the period covering the previous calendar year. The report shall include:
 - Names and addresses of land appliers and surface disposal site operators, name, location (latitude/longitude), and size (hectares) of site(s), volumes applied/disposed (dry metric tons), results of any groundwater monitoring; for land application: biosolids loading rates (metric tons per hectare), nitrogen loading rates (kg/ha),calculated plant available nitrogen, dates of applications, crops grown, dates of seeding and harvesting and certifications that the requirement to obtain information in 40 CFR § 503.12(e)(2), management practices in §503.14, site restrictions in § 503.32(b)(5) have been met; for biosolids exceeding 40 CFR §503.13 Table 3 metals concentrations, the locations of sites where the biosolids were applied and cumulative metals loading at the sites to date; and for closed sites, the date of site closure and certifications of management practiced for three years following site closure.
- 8.8. The annual biosolids report shall be submitted to USEPA using USEPA's NPDES Central Data Exchange (CDX) and can be accessed at https://cdx.epa.gov/.

ATTACHMENT I - PRETREATMENT REPORTING REQUIREMENTS

The Permittee is required to submit annual Pretreatment Program Compliance Reports (Report) to the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) and United States Environmental Protection Agency, Region 9 (USEPA). This Attachment outlines the minimum reporting requirements of the Report. If there is any conflict between requirements stated in this attachment and provisions stated in the Waste Discharge Requirements (WDRs), those contained in the WDRs will prevail.

1. PRETREATMENT REQUIREMENTS

- 1.1. The Permittee shall be responsible and liable for the performance of all Control Authority pretreatment requirements contained in Title 40 of the Code of Federal Regulations (40 CFR) part 403, including any subsequent regulatory revisions to 40 CFR part 403. Where 40 CFR part 403 or subsequent revision places mandatory actions upon the Permittee as Control Authority but does not specify a timetable for completion of the actions, the Permittee shall complete the required actions within six months from the issuance date of this permit or the effective date of the revisions to 40 CFR part 403, whichever is later. For violations of pretreatment requirements, the Permittee shall be subject to enforcement actions, penalties, fines and other remedies by the USEPA or other appropriate parties, as provided in the Clean Water Act (CWA). The Los Angeles Water Board or USEPA may initiate enforcement action against a nondomestic user for noncompliance with applicable standards and requirements as provided in the CWA and/or the California Water Code.
- 1.2. The Permittee shall implement and enforce in its entire service area, including contributing jurisdictions, its approved pretreatment program, and all subsequent revisions which are hereby made enforceable conditions of this Order/Permit. The Permittee shall enforce the requirements promulgated under sections 307(b), 307(c), 307(d) and 402(b) of the CWA with timely, appropriate and effective enforcement actions. The Permittee shall cause all nondomestic users subject to federal categorical standards to achieve compliance no later than the date specified in those requirements or, in the case of a new nondomestic user, upon commencement of the discharge.
- 1.3. The Permittee shall perform the pretreatment functions as required in 40 CFR part 403 including, but not limited to:
 - a. Implement the necessary legal authorities as provided in 40 CFR § 403.8(f)(1);
 - b. Enforce the pretreatment requirements under 40 CFR § 403.5 and 403.6;
 - c. Implement the programmatic functions as provided in 40 CFR § 403.8(f)(2); and
 - d. Provide the requisite funding and personnel to implement the pretreatment program as provided in 40 CFR § 403.8(f)(3).

- 1.4. The Permittee shall submit an annual report to the Los Angeles Water Board, State Water Board, and USEPA Region 9, describing its pretreatment activities over the previous year. In the event the Permittee is not in compliance with any conditions or requirements of this Order/Permit, or any pretreatment compliance inspection/audit requirements, then the Permittee shall also include the reasons for noncompliance and state how and when the Permittee shall comply with such conditions and requirements. This annual report shall cover operations from January 1 through December 31 and is due on April 30 of each year. The report shall contain, but not be limited to, the following information:
 - 1.4.1. A summary of analytical results from representative sampling of the public-owned treatment works (POTW) influent and effluent, as described in Attachment E Monitoring and Reporting Program, for those pollutants USEPA has identified under section 307(a) of the CWA which are known or suspected to be discharged by nondomestic users. Representative grab sampling shall be conducted for pollutants that may degrade after collection, or where the use of automatic sampling equipment may otherwise result in unrepresentative sampling. Such pollutants include, but are not limited to, cyanide, oil and grease, volatile organic compounds, chlorine, phenol, sulfide, pH, and temperature. Sludge sampling and analysis are covered in the sludge section of this permit. The Permittee shall also provide any influent or effluent monitoring data for nonpriority pollutants which the Permittee believes may be causing or contributing to interference or pass through. Sampling and analysis shall be performed with the techniques described in 40 CFR part 136.
 - 1.4.2. A discussion of upset, interference or pass-through incidents, if any, at the treatment plant which the Permittee knows or suspects were caused by nondomestic users of the POTW system. The discussion shall include the reasons why the incidents occurred, the corrective actions taken and, if known, the name and address of the nondomestic user(s) responsible. The discussion shall also include a review of the applicable pollutant limitations to determine whether any additional limitations, or changes to existing requirements, may be necessary to prevent pass through or interference.
 - 1.4.3. An updated list of the Permittee's Significant Industrial Users (SIUs) including their names and addresses, and a list of deletions, additions and SIU name changes keyed to the previously submitted list. The Permittee shall provide a brief explanation for each change. The list shall identify the SIUs subject to federal categorical standards by specifying which set(s) of standards are applicable to each SIU. The list shall also indicate which SIUs are subject to local limitations.
 - 1.4.4. The Permittee shall characterize the compliance status of each SIU by providing a list or table which includes the following information:
 - a. Name of the SIU:

- b. Category, if subject to federal categorical standards;
- c. The type of wastewater treatment or control processes in place;
- d. The number of samples collected, and inspections conducted by the Permittee during the year;
- e. The number of samples taken by the SIU during the year;
- f. For an SIU subject to discharge requirements for total toxic organics, whether all required certifications were provided;
- g. A list of the standards violated during the year. Identify whether the violations were for categorical standards or local limits;
- h. Whether the facility is in significant noncompliance (SNC) as defined at 40 CFR § 403.8(f)(2)(viii) at any time during the year; and
- i. A summary of enforcement or other actions taken during the year to return the SIU to compliance. Describe the type of action, final compliance date, and the amount of fines and penalties collected, if any. Describe any proposed actions for bringing the SIU into compliance.
- 1.4.5. A brief description of any programs the Permittee implements to reduce pollutants from nondomestic users that are not classified as SIUs.
- 1.4.6. A brief description of any significant changes in operating the pretreatment program which differ from the previous year including, but not limited to, changes concerning the program's administrative structure, local limits, monitoring program or monitoring frequencies, legal authority, enforcement policy, funding levels, or staffing levels.
- 1.4.7. A summary of the annual pretreatment budget, including the cost of pretreatment program functions and equipment purchases.
- 1.4.8. A summary of activities to involve and inform the public of the program including a copy of the newspaper notice, if any, required under 40 CFR § 403.8(f)(2)(viii).
- 1.4.9. A description of any changes in sludge disposal methods.
- 1.4.10. A discussion of any concerns not described elsewhere in the annual report.
- 1.5. Any substantial modifications to the approved Pretreatment Program, as defined in 40 CFR § 403.18(b), shall be submitted in writing to the Los Angeles Water Board and USEPA Region 9 and shall not become effective until the Los Angeles Water Board approval is attained after consultation with the USEPA Region 9.
- 1.6. Non-industrial Source Control and Public Education Programs. The Permittee shall continue to develop and implement its non-industrial source control

program and public education program. The purpose of these programs is to reduce nonindustrial toxic pollutants and pesticides into the POTW. These programs shall be periodically reviewed and addressed in the annual report.

2. LOCAL LIMITS EVALUATION

In accordance with 40 CFR § 122.44(j)(2)(ii), the Permittee shall provide a written technical evaluation of the need to revise local limits under 40 CFR § 403.5(c)(1) within 180 days following the effective date of the NPDES Order/Permit. Local limits shall be calculated to be protective of mass emission benchmarks in addition to water quality standards.

3. SIGNATORY REQUIREMENTS AND REPORT SUBMITTAL

3.1. Signatory Requirements

The annual report must be signed by a principal executive officer, ranking elected official or other duly authorized employee if such employee is responsible for the overall operation of the POTW. Any person signing these reports must make the following certification [40 CFR § 403.6(a)(2)(ii)]:

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.

3.2. Report Submittal

The Annual Pretreatment Report shall be submitted electronically using the State Water Board's California Integrated Water Quality System (CIWQS) Program website (http://www.waterboards.ca.gov/ciwqs/index.html). The CIWQS website will provide additional information for SMR submittal in the event there will be a planned service interruption for electronic submittal.

A copy of the Annual Report must be sent to USEPA electronically to the following <u>address</u>: R9Pretreatment@epa.gov. The maximum file size is 20 megabytes.

ATTACHMENT J – REASONABLE POTENTIAL ANALYSIS SUMMARY For Discharge Point 002

Parenterin Pa		For Discharge Point 002													
Marein	Parameters	Unit	Effluent	Month Median	Maximum	Instantaneous	Day Average		Cs	Monitoring	Detected	UCB _{95/95}		Rationale	Note
Community 19	Arsenic	μg/L		8				8	3	Yes	No	3.02	No	UCB _{95/95} < Lowest C _o	
Compared Might	Cadmium	μg/L	0.22	1	4	10		1	0	Yes	Yes		No		
Comparing Comp	Chromium (VI)	μg/L		2	8	20		2	0	Yes	Yes		No		
1500 1500	Copper	μg/L	98.1	3	12	30		3	2	Yes	No	2.45	Yes		
Nichel	Lead	μg/L	0.87	2	8	20		2	0	Yes	Yes		No		
Seenan	Mercury	μg/L	0.00513	0.04	0.16	0.4		0.04	0.0005	Yes	No	0.00500	No	UCB _{95/95} < Lowest C _o	
Silver 1971 9.72 9.72 9.8 7 - 9.7 9.16 Yes No 1105 No Diffuses Increase C. -				5				5	0						
Processor 1974 1975 19									U						
Cyenide, Toward Light Li						1									
System S	Zinc	μg/L	56.6	20	80	200		20	8	Yes	No	8.41	No		
Ammonia (As a) ppl 72889 S60 2400 S600 - 800 0 Yes No S51 Yes Debroops C_affor - Phonols, Non-Chlorinated ppl - 30 120 300 - 30 0 Yes Yes - No Conclusive mon-conclusion of the C_a Phonols, Non-Chlorinated ppl - 1 4 10 - 1 0 Yes Yes - No Conclusive mon-conclusion of the C_a Phonols, Chlorinated ppl -	Cyanide, Total	μg/L		1	4	10		1	0	Yes	Yes		No	exceedances of the Co	
Ammonia (A N)	Chlorine, Total Residual	μg/L		2	8	60		2	0	No			No	chlorinated.	
Premote Charlomate 1904	Ammonia (As N)	μg/L	72950	600	2400	6000		600	0	Yes	No	534	Yes	complete mixing	
Preference Light	Phenols, Non-Chlorinated	μg/L		30	120	300		30	0	Yes	Yes		No	exceedances of the Co	а
Endotrine	Phenols, Chlorinated	μg/L		1	4	10		1	0	Yes	Yes		No		а
Pendrin	Endosulfans	μg/L		0.009	0.018	0.027		0.009	0	Yes	Yes		No		а
Actacle pgt - 0.004 0.008 0.002 - 0.004 0 yes yes - No 0.00ealances of the C ₂ a Actacle pgt 3.84 - - - 220 220 0 yes yes - No 0.0083 No U.Bussy's enn-cocedences of the C ₂ - Bis (2-Chioricethaxy) Mehmel pgt - -	Endrin	μg/L		0.002	0.004	0.006		0.002	0	Yes	Yes		No		
Action 1951	НСН	μg/L		0.004	0.008	0.012		0.004	0	Yes	Yes		No		а
Bis (2-Chloroelhoxy) Methane pgl.	Acrolein	μg/L					220	220	0	Yes	Yes		No		
Bis (2-Chloriosopryl) Ether Mg/L 1200 1200 0 Yes Yes No exceedances of the C ₂ Chroribum (III) Mg/L 1200 1200 0 Yes Yes No exceedances of the C ₃ Chroribum (III) Mg/L 1.95 19000 19000 0 Yes Yes No 0.0221 No UCB-bas-Lowest C ₄ Di-N-Butyl Phthalate Mg/L 19000 19000 0 Yes Yes Yes No Conclusive non-exceedances of the C ₃ Di-N-Butyl Phthalate Mg/L 19000 19000 0 Yes Yes Yes No Conclusive non-exceedances of the C ₃ Di-N-Butyl Phthalate Mg/L 19000 19000 0 Yes Yes Yes No Conclusive non-exceedances of the C ₃ Phthalate Mg/L 19000 19000 0 Yes Yes Yes No Conclusive non-exceedances of the C ₃ Phthalate Mg/L 19000 19000 19000 0 Yes Yes Yes No Conclusive non-exceedances of the C ₃ Phthalate Mg/L 190000 19000 19000 19000 19000 19000 19000 19000 19000 19000 19000 19000 19000 19000 19000 19000 190000 19000 19000 19000 19000 1900000 1900000 1900000 1900000 1900000 1900000 1900000 1900000 19000000 190000000 190000000000	Antimony	μg/L	3.84				1200	1200	0	Yes	No	0.0683	No	UCB _{95/95} < Lowest C _o	
Sea (C-Chordosprophy) Ember Hg/L	Bis (2-Chloroethoxy) Methane	μg/L					4.4	4.4	0	Yes	Yes		No		
Chichoroberzene µg/L 190000 190000 0 Yes Yes No excededances of the C _o Di-N-Butyl Phthalate µg/L 190000 190000 0 Yes Yes No Conclusive non-excededances of the C _o Dichlorobenzenes µg/L 3500 3500 0 Yes Yes No Conclusive non-excededances of the C _o Dichlorobenzenes µg/L 33000 33000 0 Yes Yes No Conclusive non-excededances of the C _o Dimethyl Phthalate µg/L 33000 33000 0 Yes Yes No Conclusive non-excededances of the C _o Dimethyl Phthalate µg/L 220 220 0 Yes Yes No Conclusive non-excededances of the C _o Dimethyl Phthalate µg/L 220 220 0 Yes Yes No Conclusive non-excededances of the C _o Dimethyl Phthalate µg/L 34100 4100 0 Yes Yes No Conclusive non-excededances of the C _o Dimethyl Phthalate µg/L 4100 4100 0 Yes Yes No Conclusive non-excededances of the C _o Dimethyl Phthalate µg/L 4100 4100 0 Yes Yes No Conclusive non-excededances of the C _o Dimethyl Phthalate µg/L 4100 4100 0 Yes Yes No Conclusive non-excededances of the C _o Dimethyl Phthalate µg/L 4100 4100 0 Yes Yes No Conclusive non-excededances of the C _o Dimethyl Phthalate µg/L 4100 4100 0 Yes Yes No Conclusive non-excededances of the C _o Dimethyl Phthalate µg/L	Bis (2-Chloroisopropyl) Ether	μg/L					1200	1200	0	Yes	Yes		No	_	
Di-N-Butyl Phthalate	Chlorobenzene	μg/L					570	570	0	Yes	Yes		No		
Dichlorobenzenes µg/L	Chromium (III)	μg/L	1.95				190000	190000	0	Yes	No	0.0221	No		
DichlorObertzenes	Di-N-Butyl Phthalate	μg/L					3500	3500	0	Yes	Yes		No		
Dimethyl Phthalate	Dichlorobenzenes	μg/L					5100	5100	0	Yes	Yes		No		а
A6-Dinitro-2-Methylphenol µg/L 220 220 0 Yes Yes No exceedances of the Co exceedances of the Co exceedances of the Co exceedances of the Co exceedances of the Co exceedances of the Co exceedances of the Co	Diethyl Phthalate	μg/L					33000	33000	0	Yes	Yes		No		
4,0-Dinitro-2-Methylphenol μg/L	Dimethyl Phthalate	μg/L					820000	820000	0	Yes	Yes		No		
2,4-Dinitrophenol μg/L 4100 4100 0 Yes Yes No exceedances of the Co	4,6-Dinitro-2-Methylphenol	μg/L					220	220	0	Yes	Yes		No		
Ethylbenzene	2,4-Dinitrophenol	μg/L					4	4	0	Yes	Yes		No		
Hexachlorocyclopentadiene μg/L 15 15 0 Yes Yes No exceedances of the C₀ exceedances of the C	Ethylbenzene	μg/L					4100	4100	0	Yes	Yes		No		
Hexachlorocyclopentadiene μg/L 58 58 0 Yes Yes No Conclusive non-exceedances of the C₀ exceedances of the C₀ exc	Fluoranthene	μg/L					15	15	0	Yes	Yes		No	Conclusive non-	
Nitrobenzene	Hexachlorocyclopentadiene	μg/L					58	58	0	Yes	Yes		No	Conclusive non-	
Thallium μg/L 2 2 0 Yes Yes No Conclusive non-exceedances of the Conclusive non-exceed	Nitrobenzene	μg/L					4.9	4.9	0	Yes	Yes		No	Conclusive non-	
Toluene μg/L 85000 85000 0 Yes Yes No Conclusive non-exceedances of the C _o Tributyltin μg/L 0.0014 0.0	Thallium	μg/L					2	2	0	Yes	Yes		No	Conclusive non-	
Tributyltin ug/l — Conclusive non-	Toluene	μg/L					85000	85000	0	Yes	Yes		No	Conclusive non-	
	Tributyltin	μg/L					0.0014	0.0014	0	Yes	Yes		No	Conclusive non-	

Parameters	Unit	Maximum Effluent Concentration	Ocean Plan 6- Month Median Objective	Ocean Plan Daily Maximum Objective	Ocean Plan Instantaneous Maximum	Ocean Plan 30- Day Average Objective	Lowest C _o	Cs	With Monitoring Data	%Data Detected <20%	UCB _{95/95}	RPA Result- Need Limit	Rationale	Note
1,1,1-Trichloroethane	μg/L					540000	540000	0	Yes	Yes		No	Conclusive non- exceedances of the C _o	
Acrylonitrile	μg/L					0.1	0.1	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Aldrin	μg/L					0.000022	0.000022	0	Yes	Yes		No	No conclusive non- exceedances of the Co	
Benzene	μg/L					5.9	5.9	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Benzidine	μg/L					0.000069	0.000069	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	
Beryllium	μg/L					0.033	0.033	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Bis (2-Chloroethyl) Ether	μg/L					0.045	0.045	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Bis (2-Ethylhexyl) Phthalate	μg/L					3.5	3.5	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Carbon Tetrachloride	μg/L					0.9	0.9	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Chlordane	μg/L					0.000023	0.000023	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	а
Chlorodibromomethane	μg/L					8.6	8.6	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Chloroform	μg/L					130	130	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
DDT	μg/L					0.00017	0.00017	0.000057	Yes	Yes		Yes	With TMDL	а
1,4-Dichlorobenzene	μg/L					18	18	0	Yes	Yes		No	Conclusive non- exceedances of the C _o	
3,3-Dichlorobenzidine	μg/L					0.0081	0.0081	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,2-Dichloroethane	μg/L					28	28	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,1-Dichloroethylene	μg/L					0.9	0.9	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Dichlorobromomethane	μg/L					6.2	6.2	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Dichloromethane	μg/L	2.41				450	450	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,3-Dichloropropene	μg/L					8.9	8.9	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Dieldrin	μg/L					0.00004	0.00004	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
2,4-Dinitrotoluene	μg/L					2.6	2.6	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,2-Diphenylhydrazine	μg/L					0.16	0.16	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Halomethanes	μg/L					130	130	0	Yes	Yes		No	Conclusive non- exceedances of the Co	а
Heptachlor	μg/L					0.00005	0.00005	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Heptachlor Epoxide	μg/L					0.00002	0.00002	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Hexachlorobenzene	μg/L					0.00021	0.00021	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Hexachlorobutadiene	μg/L					14	14	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Hexachloroethane	μg/L					2.5	2.5	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Isophorone	μg/L					730	730	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
N-Nitrosodimethylamine	μg/L					7.3	7.3	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
N-Nitrosodi-N-Propylamine	μg/L					0.38	0.38	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
N-Nitrosodiphenylamine	μg/L					2.5	2.5	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
PAHs	μg/L	0.064				0.0088	0.0088	0	Yes	Yes		No	Conclusive non- exceedances of the C _o	а
PCBs Arochlors	μg/L	4.0E-03				0.000019	0.000019	0.000016	Yes	Yes		Yes	With TMDL	а
TCDD Equivalents	μg/L	3.4E-07				3.9E-09	3.9E-09	0	Yes	Yes		Yes	Detections > Lowest C _o after complete mixing	а

ORDER XX-XXXX-XXX NPDES NO. CA0109991

Parameters	Unit	Maximum Effluent Concentration	Ocean Plan 6- Month Median Objective	Ocean Plan Daily Maximum Objective	Ocean Plan Instantaneous Maximum	Ocean Plan 30- Day Average Objective	Lowest C _o	Cs	With Monitoring Data	%Data Detected <20%	UCB _{95/95}	RPA Result- Need Limit	Rationale	Note
1,1,2,2-Tetrachloroethane	μg/L					2.3	2.3	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Tetrachloroethylene	μg/L					2	2	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Toxaphene	μg/L					0.00021	0.00021	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	
Trichloroethylene	μg/L					27	27	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,1,2-Trichloroethane	μg/L					9.4	9.4	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
2,4,6-Trichlorophenol	μg/L					0.29	0.29	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Vinyl Chloride	μg/L					36	36	0	Yes	Yes		No	Conclusive non- exceedances of the Co	

Footnotes for Discharge Point 002 RPA

C₀ – 2019 Ocean Plan objectives

C_s – 2019 Ocean Plan background concentrations

RPA – Reasonable Potential Analysis

UCB_{95/95} - upper 95 percent confidence bound for the 95th percentile of the effluent performance data

a. See Attachment A of this Order/Permit for definition of terms.

End of footnotes for Discharge Point 002 RPA

For Discharge Point 001

					10151	scharge Point 001								
Parameters	Unit	Maximum Effluent Concentration	Ocean Plan 6- Month Median Objective	Ocean Plan Daily Maximum Objective	Ocean Plan Instantaneous Maximum	Ocean Plan 30- Day Average Objective	Lowest C _o	Cs	With Monitoring Data	%Data Detected < 20%	UCB _{95/95}	RPA Result- Need Limit	Rationale	Note
Arsenic	ug/L	6.19	8	32	80		8	3	Yes	No	3.12	No	UCB _{95/95} < Lowest C _o	
Cadmium	ug/L	0.22	1	4	10		1	0	Yes	Yes		No	Conclusive non- exceedances of the C _o	
Chromium (VI)	ug/L		2	8	20		2	0	Yes	Yes		No	Conclusive non- exceedances of the C _o	
Copper	ug/L	98.1	3	12	30		3	2	Yes	No	4.5	Yes	Detections > C _o after complete mixing	
Lead	ug/L	0.87	2	8	20		2	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Mercury	ug/L	0.00513	0.04	0.16	0.4		0.04	0.0005	Yes	No	0.00500	No	UCB _{95/95} < Lowest C _o	
Nickel	ug/L	17.9	5	20	50		5	0	Yes	No	1.61	No	UCB _{95/95} < Lowest C _o	
Selenium	ug/L	2.93	15	60	150		15	0	Yes	No	0.203	No	UCB _{95/95} < Lowest C _o	
Silver	ug/L	0.526	0.7	2.8	7		0.7	0.16	Yes	No	0.196	No	UCB _{95/95} < Lowest C _o	
Zinc	ug/L	56.6	20	80	200		20	8	Yes	No	10.5	No	UCB _{95/95} < Lowest C _o	
Cyanide (As CN)	ug/L		1	4	10		1	0	Yes	Yes		No	Conclusive non- exceedances of the C _o	
Chlorine, Total Residual	ug/L		2	8	60		2	0	No			Yes	Best Professional Judgement	
Ammonia (As N)	ug/L	72950	600	2400	6000		600	0	Yes	No	3697	Yes	Detections > C _o after complete mixing	
Phenols, Non-Chlorinated	ug/L		30	120	300		30	0	Yes	Yes		No	Conclusive non- exceedances of the Co	а
Phenols, Chlorinated	ug/L		1	4	10		1	0	Yes	Yes		No	Conclusive non- exceedances of the Co	а
Endosulfans	ug/L		0.009	0.018	0.027		0.009	0	Yes	Yes		No	Conclusive non- exceedances of the Co	а
Endrin	ug/L		0.002	0.004	0.006		0.002	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
НСН	ug/L		0.004	0.008	0.012		0.004	0	Yes	Yes		No	Conclusive non- exceedances of the Co	а
Acrolein	ug/L					220	220	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Antimony	ug/L	3.84				1200	1200	0	Yes	No	0.415	No	UCB _{95/95} < Lowest C _o	
Bis (2-Chloroethoxy) Methane	ug/L					4.4	4.4	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Bis (2-Chloroisopropyl) Ether	ug/L					1200	1200	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Chlorobenzene	ug/L					570	570	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Chromium (III)	ug/L	1.95				190000	190000	0	Yes	No	0.134	No	UCB _{95/95} < Lowest C _o	

Parameters	Unit	Maximum Effluent Concentration	Ocean Plan 6- Month Median Objective	Ocean Plan Daily Maximum Objective	Ocean Plan Instantaneous Maximum	Ocean Plan 30- Day Average Objective	Lowest C _o	Cs	With Monitoring Data	%Data Detected < 20%	UCB _{95/95}	RPA Result- Need Limit	Rationale	Note
Di-N-Butyl Phthalate	ug/L					3500	3500	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Dichlorobenzenes	ug/L					5100	5100	0	Yes	Yes		No	Conclusive non- exceedances of the Co	а
Diethyl Phthalate	ug/L					33000	33000	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Dimethyl Phthalate	ug/L					820000	820000	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
4,6-Dinitro-2-Methylphenol	ug/L					220	220	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
2,4-Dinitrophenol	ug/L					4	4	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Ethylbenzene	ug/L					4100	4100	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Fluoranthene	ug/L					15	15	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Hexachlorocyclopentadiene	ug/L					58	58	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Nitrobenzene	ug/L					4.9	4.9	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Thallium	ug/L					2	2	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Toluene	ug/L					85000	85000	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Tributyltin	ug/L					0.0014	0.0014	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,1,1-Trichloroethane	ug/L					540000	540000	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Acrylonitrile	ug/L					0.1	0.1	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Aldrin	ug/L					0.000022	0.000022	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	
Benzene	ug/L					5.9	5.9	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Benzidine	ug/L					0.000069	0.000069	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	
Beryllium	ug/L					0.033	0.033	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Bis (2-Chloroethyl) Ether	ug/L					0.045	0.045	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Bis (2-Ethylhexyl) Phthalate	ug/L					3.5	3.5	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Carbon Tetrachloride	ug/L					0.9	0.9	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Chlordane	ug/L					0.000023	0.000023	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	а
Chlorodibromomethane	ug/L					8.6	8.6	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Chloroform	ug/L					130	130	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
DDT	ug/L					0.00017	0.00017	0.000057	Yes	Yes		Yes	With TMDL	а
1,4-Dichlorobenzene	ug/L					18	18	0	Yes	Yes		No	Conclusive non- exceedances of the C _o	
3,3-Dichlorobenzidine	ug/L					0.0081	0.0081	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	
1,2-Dichloroethane	ug/L					28	28	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,1-Dichloroethylene	ug/L					0.9	0.9	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Dichlorobromomethane	ug/L					6.2	6.2	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Methylene Chloride	ug/L	2.41				450	450	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,3-Dichloropropene	ug/L					8.9	8.9	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Dieldrin	ug/L					0.00004	0.00004	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	
2,4-Dinitrotoluene	ug/L					2.6	2.6	0	Yes	Yes		No	Conclusive non- exceedances of the Co	

Parameters	Unit	Maximum Effluent Concentration	Ocean Plan 6- Month Median Objective	Ocean Plan Daily Maximum Objective	Ocean Plan Instantaneous Maximum	Ocean Plan 30- Day Average Objective	Lowest C _o	Cs	With Monitoring Data	%Data Detected < 20%	UCB _{95/95}	RPA Result- Need Limit	Rationale	Note
1,2-Diphenylhydrazine	ug/L					0.16	0.16	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Halomethanes	ug/L					130	130	0	Yes	Yes		No	Conclusive non- exceedances of the Co	а
Heptachlor	ug/L		1			0.00005	0.00005	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	
Heptachlor Epoxide	ug/L					0.00002	0.00002	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	
Hexachlorobenzene	ug/L					0.00021	0.00021	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	
Hexachlorobutadiene	ug/L					14	14	0	Yes	Yes		No	Conclusive non- exceedances of the C _o	
Hexachloroethane	ug/L					2.5	2.5	0	Yes	Yes		No	Conclusive non- exceedances of the Co	-
Isophorone	ug/L					730	730	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
N-Nitrosodimethylamine	ug/L					7.3	7.3	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
N-Nitrosodi-N-Propylamine	ug/L					0.38	0.38	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
N-Nitrosodiphenylamine	ug/L					2.5	2.5	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Polynuclear Aromatic Hydrocarbons (PAHs)	ug/L	0.064				0.0088	0.0088	0	Yes	Yes		No	Conclusive non- exceedances of the Co	а
PCBs Arochlors	ug/L	4.0E-03				0.000019	0.000019	0.000016	Yes	Yes		Yes	With TMDL	а
TCDD Equivalents	ug/L	3.4E-07				3.9E-09	3.9E-09	0	Yes	Yes		Yes	Detections > C _o after complete mixing	а
1,1,2,2-Tetrachloroethane	ug/L		1			2.3	2.3	0	Yes	Yes		No	Conclusive non- exceedances of the C _o	
Tetrachloroethylene	ug/L					2	2	0	Yes	Yes		No	Conclusive non- exceedances of the C _o	
Toxaphene	ug/L					0.00021	0.00021	0	Yes	Yes		No	No conclusive non- exceedances of the C _o	
Trichloroethylene	ug/L					27	27	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
1,1,2-Trichloroethane	ug/L					9.4	9.4	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
2,4,6-Trichlorophenol	ug/L					0.29	0.29	0	Yes	Yes		No	Conclusive non- exceedances of the Co	
Vinyl Chloride	ug/L					36	36	0	Yes	Yes		No	Conclusive non- exceedances of the Co	

Footnotes for Discharge Point 001 RPA

C_o – 2019 Ocean Plan objectives

C_s – 2019 Ocean Plan background concentrations

RPA – Reasonable Potential Analysis

UCB_{95/95} - upper 95 percent confidence bound for the 95th percentile of the effluent performance data

a. See Attachment A of this Order/Permit for definition of terms.

End of footnotes for Discharge Point 001 RPA