

2020 ANNUAL REPORT

INDUSTRIAL WASTE PRETREATMENT PROGRAM

LOS ANGELES COUNTY SANITATION DISTRICTS

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APPENDIX I
JWPCP MASS EMISSION BENCHMARKS

Table 4.6
JOINT WATER POLLUTION CONTROL PLANT
2020 CALCULATED MASS EMISSION RATE

Ocean Plan Constituent	Annual Average Concentration (ug/L)	Annual Average Flow (MGD)	Calculated Mass Emission Rate (MT/yr)	12-month Average Mass Emission Benchmarks From Permit (MT/yr)	Ratio, Mass Emission Rate to Benchmark (%)
Marine Aquatic Life Toxicants					
Arsenic	2.00	250	0.692	1.3	53%
Cadmium	ND	250	ND	0.1	ND
Chromium (hexavalent)	ND	250	ND	0.8	ND
Copper	3.16	250	1.09	2.6	42%
Lead	ND	250	ND	0.2	ND
Mercury	ND	250	ND	0.02	ND
Nickel	7.66	250	2.65	6.9	38%
Selenium	4.06	250	1.40	5.9	24%
Silver	ND	250	ND	0.1	ND
Zinc	11.3	250	3.91	9.0	43%
Cyanide	1.72	250	0.595	5.3	11%
Ammonia as N	43600	250	15087	25000	60%
Phenolic compounds (non-chlorinated)	ND	250	ND	1.9	ND
Phenolic compounds (chlorinated)	ND	250	ND	1.0	ND
Endosulfan	ND	250	ND	0.008	ND
HCH	ND	250	ND	0.008	ND
Endrin	ND	250	ND	0.005	ND
Human Health Toxicants - Non Carcinogens					
Acrolein	ND	250	ND	2.7	ND
Antimony	1.64	250	0.567	3.6	16%
Bis(2chloroethoxy)methane	ND	250	ND	0.7	ND
Bis(2chloroisopropyl)ether	ND	250	ND	0.8	ND
Chlorobenzene	ND	250	ND	0.6	ND
Chromium (III)	1.2	250	0.42	1.5	28%
Di-n-butyl-phthalate	ND	250	ND	2.3	ND
Dichlorobenzenes	ND	250	ND	0.3	ND
Diethyl phthalate	ND	250	ND	1.1	ND
Dimethyl phthalate	ND	250	ND	1.0	ND
2-Methyl-4,6-dinitrophenol	ND	250	ND	6.9	ND
2,4-Dinitrophenol	ND	250	ND	9.0	ND
Ethylbenzene	ND	250	ND	1.0	ND
Fluoranthene	ND	250	ND	1.0	ND
Hexachlorocyclopentadiene	ND	250	ND	4.0	ND
Nitrobenzene	ND	250	ND	1.2	ND
Thallium	ND	250	ND	0.3	ND
Toluene	ND	250	ND	0.3	ND
Tributyltin	ND	250	ND	0.005	ND
1,1,1-Trichloroethane	ND	250	ND	1.0	ND
Human Health Toxicants - Carcinogens					
Acrylonitrile	ND	250	ND	1.4	ND
Aldrin	0.002	250	0.0007	0.002	35%
Benzene	ND	250	ND	0.399	ND
Beryllium	ND	250	ND	0.1	ND
Bis(2-chloroethyl) ether	ND	250	ND	0.5	ND
Bis(2-ethylhexyl) phthalate	ND	250	ND	7.4	ND
Carbon tetrachloride	ND	250	ND	0.5	ND
Chlorodibromomethane	0.14	250	0.048	1.3	4%
Chloroform	12.8	250	4.43	13.5	33%
1,4-Dichlorobenzene	ND	250	ND	0.5	ND
1,2-Dichloroethane	ND	250	ND	0.3	ND
1,1-Dichloroethylene	ND	250	ND	0.6	ND
Bromodichloromethane	0.29	250	0.10	0.8	13%
Dichloromethane	1.5	250	0.52	1.6	32%
1,3-Dichloropropene	ND	250	ND	0.3	ND
2,4-Dinitrotoluene	ND	250	ND	0.5	ND
1,2-Diphenylhydrazine	ND	250	ND	0.3	ND
Halomethanes	ND	250	ND	0.5	ND
Hexachlorobutadiene	ND	250	ND	0.4	ND
Hexachloroethane	ND	250	ND	0.4	ND
Isophorone	ND	250	ND	0.3	ND
N-Nitrosodimethylamine	0.24	250	0.083	0.4	21%
N-Nitrosodi-N-propylamine	ND	250	ND	0.3	ND
N-Nitrosodiphenylamine	ND	250	ND	0.4	ND
PAHs	ND	250	ND	0.5	ND
1,1,2,2-Tetrachloroethane	ND	250	ND	0.2	ND
Tetrachloroethylene	0.18	250	0.062	10.6	1%
Trichloroethylene	ND	250	ND	0.5	ND
1,1,2-Trichloroethane	ND	250	ND	0.2	ND
2,4,6-Trichlorophenol	ND	250	ND	0.3	ND
Vinyl Chloride	ND	250	ND	0.7	ND

1. ND = Not Detected

2. Mass Emission Rates were calculated using the annual average concentration and annual average flow and have been rounded in the above table. Values were not rounded when calculating the Ratio.