2021 ANNUAL REPORT

INDUSTRIAL WASTE PRETREATMENT PROGRAM
LOS ANGELES COUNTY SANITATION DISTRICTS

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APPENDIX IJWPCP MASS EMISSION BENCHMARKS

Table 4.6 JOINT WATER POLLUTION CONTROL PLANT 2021 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	2.42	242	0.810	1.3	62%
Cadmium	ND	242	ND	0.1	ND
Chromium (hexavalent) Copper	ND 3.65	242 242	ND 1.22	0.8 2.6	ND 47%
Lead	ND	242	ND	0.2	ND
Mercury	ND	242	ND	0.02	ND
Nickel	7.08	242	2.37	6.9	34%
Selenium	4.93	242	1.65	5.9	28%
Silver	0.05	242	0.02	0.1	18%
Zinc Cyanide	8.13 ND	242 242	2.72 ND	9.0 5.3	30% ND
Ammonia as N	42900	242	14359	25000	57%
Phenolic compounds (non-chlorinated)	ND	242	ND	1.9	ND
Phenolic compounds (chlorinated)	ND	242	ND	1.0	ND
Endosulfan	ND	242	ND	0.008	ND
HCH	ND	242	ND	0.008	ND
Endrin	ND	242	ND	0.005	ND
Human Health Toxicants - Non		0	·	1	
Acrolein	ND	242	ND 0.400	2.7	ND
Antimony Bis(2chloroethoxy)methane	1.49 ND	242 242	0.499 ND	3.6 0.7	14% ND
Bis(2chloroisopropyl)ether	ND ND	242	ND ND	0.7	ND ND
Chlorobenzene	ND ND	242	ND ND	0.6	ND ND
Chromium (III)	1.5	242	0.50	1.5	33%
Di-n-butyl-phthalate	ND	242	ND	2.3	ND
Dichlorobenzenes	ND	242	ND	0.3	ND
Diethyl phthalate	ND	242	ND	1.1	ND
Dimethyl phthalate	ND	242	ND	1.0	ND
2-Methyl-4,6-dinitrophenol	ND	242	ND	6.9	ND
2,4-Dinitrophenol Ethylbenzene	ND ND	242 242	ND ND	9.0 1.0	ND ND
Fluoranthene	ND ND	242	ND ND	1.0	ND ND
Hexachlorocyclopentadiene	ND	242	ND ND	4.0	ND
Nitrobenzene	ND	242	ND	1.2	ND
Thallium	ND	242	ND	0.3	ND
Toluene	0.37	242	0.12	0.3	41%
Tributyltin	ND	242	ND	0.005	ND
1,1,1-Trichloroethane	ND .	242	ND	1.0	ND
Human Health Toxicants - Carc		0.10			
Acrylonitrile Aldrin	ND ND	242 242	ND ND	1.4 0.002	ND ND
Benzene	ND ND	242	ND ND	0.399	ND ND
Beryllium	ND	242	ND ND	0.1	ND
Bis(2-chloroethyl) ether	ND	242	ND	0.5	ND
Bis(2-ethylhexyl) phthalate	38	242	13	7.4	172%
Carbon tetrachloride	ND	242	ND	0.5	ND
Chlorodibromomethane	ND 10.0	242	ND 4.00	1.3	ND
Chloroform 1.4 Dichlorohenzene	12.2 ND	242 242	4.08 ND	13.5 0.5	30% ND
1,4-Dichlorobenzene 1.2-Dichloroethane	ND ND	242	ND ND	0.5	ND ND
1,1-Dichloroethylene	ND	242	ND ND	0.6	ND
Bromodichloromethane	0.47	242	0.16	0.8	20%
Dichloromethane	1.2	242	0.40	1.6	25%
1,3-Dichloropropene	ND	242	ND	0.3	ND
2,4-Dinitrotoluene	ND	242	ND	0.5	ND
1,2-Diphenylhydrazine	ND	242	ND	0.3	ND
Halomethanes Hexachlorobutadiene	ND ND	242 242	ND ND	0.5 0.4	ND ND
Hexachloroethane	ND ND	242	ND ND	0.4	ND ND
Isophorone	ND ND	242	ND ND	0.4	ND ND
N-Nitrosodimethylamine	0.21	242	0.07	0.4	18%
N-Nitrosodi-N-propylamine	ND	242	ND	0.3	ND
N-Nitrosodiphenylamine	ND	242	ND	0.4	ND
PAHs	ND	242	ND	0.5	ND
1,1,2,2-Tetrachloroethane	ND	242	ND	0.2	ND
Tetrachloroethylene	ND ND	242	ND ND	10.6	ND
Trichloroethylene 1,1,2-Trichloroethane	ND ND	242 242	ND ND	0.5 0.2	ND ND
2,4,6-Trichlorophenol	ND ND	242	ND ND	0.2	ND ND
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^{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.