

2017 ANNUAL REPORT

INDUSTRIAL WASTE PRETREATMENT PROGRAM

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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APPENDIX I
JWPCP MASS EMISSION BENCHMARKS

**Table 4.6
JOINT WATER POLLUTION CONTROL PLANT
2017 12-MONTH AVERAGE EFFLUENT MASS EMISSION BENCHMARKS**

Ocean Plan Constituent	Average Concentration (ug/L)	2017 Annual Average Flow (MGD)	12-month Average Mass Emission Benchmarks From Permit Order Nos. R4-2011-0151 / R4-2017-0180 (MT/yr)	Calculated MER (using Average Concentration) (MT/yr)	Percentage of Mass Emission Benchmark From Permit Order Nos. R4-2011-0151 / R4-2017-0180 (%)
Marine Aquatic Life Toxicants					
Arsenic	1.90	257	0.95 / 1.3	0.67	71 / 52
Cadmium	ND	257	0.47 / 0.1	ND	ND / ND
Chromium (hexavalent)	0.07	257	46.70 / 0.8	0.02	0.1 / 3
Copper	2.01	257	5.78 / 2.6	0.71	12 / 27
Lead	ND	257	3.74 / 0.2	ND	ND / ND
Mercury	0.0022	257	0.23 / 0.02	0.0008	0.3 / 4
Nickel	6.96	257	22.58 / 6.9	2.47	11 / 36
Selenium	3.81	257	5.00 / 5.9	1.35	27 / 23
Silver	ND	257	2.33 / 0.1	ND	ND / ND
Zinc	11.7	257	11.67 / 9.0	4.15	36 / 46
Cyanide	2.13	257	4.05 / 5.3	0.76	19 / 14
Chlorine Residual	ND	257	N/a / N/a	ND	No MEB / No MEB
Ammonia as N	44400	257	17070 / 25000	15764	92 / 63
Phenolic compounds (non-chlorinated)	ND	257	23.35 / 1.9	ND	ND / ND
Phenolic compounds (chlorinated)	ND	257	23.35 / 1.0	ND	ND / ND
Endosulfan	ND	257	0.047 / 0.008	ND	ND / ND
HCH	ND	257	0.0047 / 0.008	ND	ND / ND
Endrin	ND	257	0.0047 / 0.005	ND	ND / ND
Acute Toxicity		257	N/a / N/a		No MEB / No MEB
Chronic Toxicity		257	N/a / N/a		No MEB / No MEB
Radioactivity		257	N/a / N/a		No MEB / No MEB
Human Health Toxicants - Non Carcinogens					
Acrolein	ND	257	4.67 / 2.7	ND	ND / ND
Antimony	2.30	257	1.61 / 3.6	0.82	51 / 23
Bis(2chloroethoxy)methane	ND	257	11.67 / 0.7	ND	ND / ND
Bis(2chloroisopropyl)ether	ND	257	4.67 / 0.8	ND	ND / ND
Chlorobenzene	ND	257	0.23 / 0.6	ND	ND / ND
Chromium (III)	0.98	257	5.60 / 1.5	0.35	6 / 23
Di-n-butyl-phthalate	ND	257	23.35 / 2.3	ND	ND / ND
Dichlorobenzenes	ND	257	4.67 / 0.3	ND	ND / ND
Diethyl phthalate	ND	257	4.67 / 1.1	ND	ND / ND
Dimethyl phthalate	ND	257	4.67 / 1.0	ND	ND / ND
2-Methyl-4,6-dinitrophenol	ND	257	11.67 / 6.9	ND	ND / ND
2,4-Dinitrophenol	ND	257	11.67 / 9.0	ND	ND / ND
Ethyl benzene	ND	257	0.23 / 1.0	ND	ND / ND
Fluoranthene	ND	257	2.33 / 1.0	ND	ND / ND
Hexachlorocyclopentadiene	ND	257	11.67 / 4.0	ND	ND / ND
Nitrobenzene	ND	257	2.33 / 1.2	ND	ND / ND
Thallium	ND	257	4.67 / 0.3	ND	ND / ND
Toluene	0.12	257	0.23 / 0.3	0.04	19 / 14
Tributyltin	ND	257	0.028 / 0.005	ND	ND / ND
1,1,1-Trichloroethane	ND	257	0.23 / 1.0	ND	ND / ND
Human Health Toxicants - Carcinogens					
Acrylonitrile	ND	257	2.33 / 1.4	ND	ND / ND
Aldrin	ND	257	N/a / 0.002	ND	No MEB / ND
Benzene	ND	257	0.23 / 0.399	ND	ND / ND
Benzidine	ND	257	N/a / N/a	ND	No MEB / No MEB
Beryllium	ND	257	0.47 / 0.1	ND	ND / ND
Bis(2-chloroethyl) ether	ND	257	2.33 / 0.5	ND	ND / ND
Bis(2-ethylhexyl) phthalate	ND	257	15.25 / 7.4	ND	ND / ND
Carbon tetrachloride	ND	257	0.23 / 0.5	ND	ND / ND
Chlordane	ND	257	N/a / N/a	ND	No MEB / No MEB
Chlorodibromomethane	ND	257	1.15 / 1.3	ND	ND / ND
Chloroform	13.7	257	20.78 / 13.5	4.86	23 / 36
DDT	ND	257	N/a / N/a	ND	No MEB / No MEB
1,4-Dichlorobenzene	ND	257	2.33 / 0.5	ND	ND / ND
3,3'-Dichlorobenzidine	ND	257	0.065 / N/a	ND	ND / No MEB
1,2-Dichloroethane	ND	257	0.23 / 0.3	ND	ND / ND
1,1-Dichloroethylene	ND	257	0.23 / 0.6	ND	ND / ND
Bromodichloromethane	0.79	257	0.84 / 0.8	0.28	33 / 35
Dichloromethane	1.6	257	5.38 / 1.6	0.57	11 / 36
1,3-Dichloropropene	ND	257	0.23 / 0.3	ND	ND / ND
Dieldrin	ND	257	N/a / N/a	ND	No MEB / No MEB
2,4-Dinitrotoluene	ND	257	11.67 / 0.5	ND	ND / ND
1,2-Diphenylhydrazine	ND	257	2.33 / 0.3	ND	ND / ND
Halomethanes	ND	257	1.50 / 0.5	ND	ND / ND
Heptachlor	ND	257	N/a / N/a	ND	No MEB / No MEB
Heptachlor epoxide	ND	257	N/a / N/a	ND	No MEB / No MEB
Hexachlorobenzene	ND	257	N/a / N/a	ND	No MEB / No MEB
Hexachlorobutadiene	ND	257	2.33 / 0.4	ND	ND / ND
Hexachloroethane	ND	257	2.33 / 0.4	ND	ND / ND
Isophorone	ND	257	2.33 / 0.3	ND	ND / ND
N-Nitrosodimethylamine	ND	257	11.67 / 0.4	ND	ND / ND
N-Nitrosodi-N-propylamine	ND	257	11.67 / 0.3	ND	ND / ND
N-Nitrosodiphenylamine	ND	257	2.33 / 0.4	ND	ND / ND
PAHs	ND	257	23.35 / 0.5	ND	ND / ND
PCBs	ND	257	N/a / N/a	ND	No MEB / No MEB
TCDD equivalents	0.000000042	257	N/a / N/a	0.000000015	No MEB / No MEB
1,1,2,2-Tetrachloroethane	ND	257	0.23 / 0.2	ND	ND / ND
Tetrachloroethylene	0.18	257	4.41 / 10.6	0.06	1 / 0.6
Toxaphene	ND	257	N/a / N/a	ND	No MEB / No MEB
Trichloroethylene	ND	257	0.23 / 0.5	ND	ND / ND
1,1,2-Trichloroethane	ND	257	0.23 / 0.2	ND	ND / ND
2,4,6-Trichlorophenol	ND	257	23.35 / 0.3	ND	ND / ND
Vinyl Chloride	ND	257	0.23 / 0.7	ND	ND / ND

ND = Not Detected, N/a = No Benchmark was established in the permit for this constituent