

**2018 ANNUAL REPORT**

INDUSTRIAL WASTE PRETREATMENT PROGRAM

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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SUBMITTED  
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**APPENDIX I**  
JWPCP MASS EMISSION BENCHMARKS

**Table 4.6**  
**JOINT WATER POLLUTION CONTROL PLANT**  
**2018 12-MONTH AVERAGE EFFLUENT MASS EMISSION BENCHMARKS**

Ocean Plan Constituent	Average Concentration (ug/L)	2018 Annual Average Flow (MGD)	Calculated MER (using Average Concentration) (MT/yr)	12-month Average Mass Emission Benchmarks From R4-2017-0180 (MT/yr)	Percentage of R4-2017-0180 Mass Emission Benchmark
<b>Marine Aquatic Life Toxicants</b>					
Arsenic	2.14	261	0.77	1.3	59%
Cadmium	ND	261	ND	0.1	ND
Chromium (hexavalent)	0.04	261	0.01	0.8	2%
Copper	2.03	261	0.73	2.6	28%
Lead	ND	261	ND	0.2	ND
Mercury	ND	261	ND	0.02	ND
Nickel	7.50	261	2.70	6.9	39%
Selenium	4.62	261	1.67	5.9	28%
Silver	ND	261	ND	0.1	ND
Zinc	10.7	261	3.86	9.0	43%
Cyanide	ND	261	ND	5.3	ND
Ammonia as N	45000	261	16226	25000	65%
Phenolic compounds (non-chlorinated)	ND	261	ND	1.9	ND
Phenolic compounds (chlorinated)	ND	261	ND	1.0	ND
Endosulfan	ND	261	ND	0.008	ND
HCH	0.005	261	0.002	0.008	23%
Endrin	ND	261	ND	0.005	ND
<b>Human Health Toxicants - Non Carcinogens</b>					
Acrolein	ND	261	ND	2.7	ND
Antimony	2.00	261	0.72	3.6	20%
Bis(2chloroethoxy)methane	ND	261	ND	0.7	ND
Bis(2chloroisopropyl)ether	ND	261	ND	0.8	ND
Chlorobenzene	ND	261	ND	0.6	ND
Chromium (III)	1.32	261	0.48	1.5	32%
Di-n-butyl-phthalate	ND	261	ND	2.3	ND
Dichlorobenzenes	ND	261	ND	0.3	ND
Diethyl phthalate	ND	261	ND	1.1	ND
Dimethyl phthalate	ND	261	ND	1.0	ND
2-Methyl-4,6-dinitrophenol	ND	261	ND	6.9	ND
2,4-Dinitrophenol	ND	261	ND	9.0	ND
Ethyl benzene	ND	261	ND	1.0	ND
Fluoranthene	ND	261	ND	1.0	ND
Hexachlorocyclopentadiene	ND	261	ND	4.0	ND
Nitrobenzene	ND	261	ND	1.2	ND
Thallium	ND	261	ND	0.3	ND
Toluene	ND	261	ND	0.3	ND
Tributyltin	ND	261	ND	0.005	ND
1,1,1-Trichloroethane	ND	261	ND	1.0	ND
<b>Human Health Toxicants - Carcinogens</b>					
Acrylonitrile	ND	261	ND	1.4	ND
Aldrin	ND	261	ND	0.002	ND
Benzene	ND	261	ND	0.399	ND
Beryllium	ND	261	ND	0.1	ND
Bis(2-chloroethyl) ether	ND	261	ND	0.5	ND
Bis(2-ethylhexyl) phthalate	ND	261	ND	7.4	ND
Carbon tetrachloride	ND	261	ND	0.5	ND
Chlorodibromomethane	ND	261	ND	1.3	ND
Chloroform	15.2	261	5.48	13.5	41%
1,4-Dichlorobenzene	ND	261	ND	0.5	ND
1,2-Dichloroethane	ND	261	ND	0.3	ND
1,1-Dichloroethylene	ND	261	ND	0.6	ND
Bromodichloromethane	0.75	261	0.3	0.8	34%
Dichloromethane	1.4	261	0.50	1.6	32%
1,3-Dichloropropene	ND	261	ND	0.3	ND
2,4-Dinitrotoluene	ND	261	ND	0.5	ND
1,2-Diphenylhydrazine	ND	261	ND	0.3	ND
Halomethanes	ND	261	ND	0.5	ND
Hexachlorobutadiene	ND	261	ND	0.4	ND
Hexachloroethane	ND	261	ND	0.4	ND
Isophorone	ND	261	ND	0.3	ND
N-Nitrosodimethylamine	0.20	261	0.07	0.4	18%
N-Nitrosodi-N-propylamine	ND	261	ND	0.3	ND
N-Nitrosodiphenylamine	ND	261	ND	0.4	ND
PAHs	ND	261	ND	0.5	ND
1,1,2,2-Tetrachloroethane	ND	261	ND	0.2	ND
Tetrachloroethylene	ND	261	ND	10.6	ND
Trichloroethylene	ND	261	ND	0.5	ND
1,1,2-Trichloroethane	ND	261	ND	0.2	ND
2,4,6-Trichlorophenol	ND	261	ND	0.3	ND
Vinyl Chloride	ND	261	ND	0.7	ND

MER = Mass Emission Rate, ND = Not Detected