General Permit for discharges with low threat to water quality

Poseidon Resources, Pilot Desalination Plant, Moss Landing, Monterey County [Peter von Langen 805/549-3688]

On May 25, 2006, Poseidon Resources Corporation (Discharger) submitted a complete application and Notice of Intent for enrollment under the Low-threat General Permit, WDR Order No. 01-119. The Discharger proposes to construct a pilot seawater desalination plant on the former National Refractories facility in Moss Landing, Monterey County (Attachment 1). Monterey County certified the project's compliance with CEQA and issued a development permit on March 21, 2006. The desalination plant will discharge up to 0.29 million gallons per day (MGD) of waste desalination brine and product water. The Discharger will discharge the combined flows to the Pacific Ocean through the existing National Refractories outfall-diffuser system.

The Discharger will pump feed water from Moss Landing Harbor through an existing intake structure. The Discharger will control pH, solids concentrations, chlorine residual concentrations and scaling in the desalination process by adding small quantities of inorganic chemicals to the desalination feed water and by treating the feed water via micro-filtration. The Discharger will send used membrane cleaning solution to the onsite waste disposal ponds or the sanitary waste disposal system.

The Discharger will pump waste brine to the Pacific Ocean through an existing outfall with a diffuser. Combining the brine and product water streams before discharge will render insignificant any potential adverse effects from increased salinity. Staff also evaluated the concentrations of constituents (Polymer, Sodium Hypochlorite, Sodium Bisulfite, Ferric Sulfate, Ferric Chloride, and Sulfuric Acid) in the intake and discharge and found that there would not be any significant concentrations of pollutants at the outfall (Attachment 2). Material Safety Data Sheets (MSDS) support that low concentrations of flocculants and polymer are benign.

The Discharger evaluated the potential effects of entrainment and impingement based on a volumetric approach that compared the pilot desalination project to previous studies at the Moss Landing Power Plant (MLPP). The Discharger found that impingement and entrainment effects would be insignificant since the proposed discharge would have flows about 2,600 times lower than the combined flows of the MLPP's two cooling water systems (approximately 750 MGD). Although insignificant, the Discharger proposes to incorporate additional mitigation measures to address impingement and entrainment. Specifically, the discharger will include an intake velocity-reduction chamber, disk filters on the intake pipe, and provide an impingement and entrainment

survival study of the disk filtration system.

Due to the low threat of the pilot plant discharge to the water quality of the Pacific Ocean, staff recommends regulating this discharge through enrollment in the General Permit. Unless the Water Board objects, staff will notify the Discharger of the enrollment and require compliance with Monitoring and Reporting Program No. 01-119, modified for this discharge. A full scale facility would be regulated by an individual permit.

Attachments

A. Map of Moss Landing showing intake and discharge points
B. Table of inorganic chemical usage

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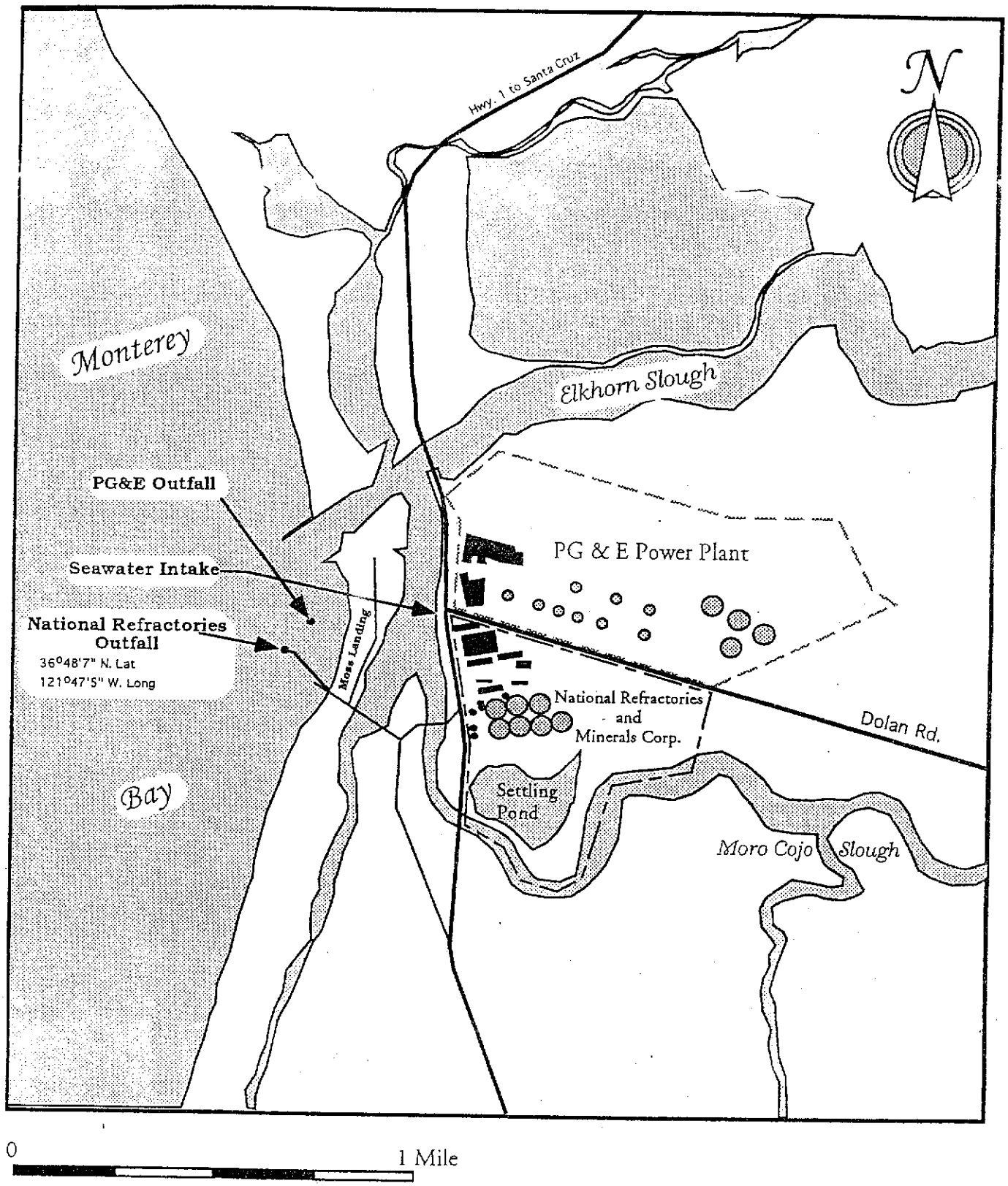

Attachment "A"
National Refractories and Minerals Corporation

ATTACHMENT "B"

PAJARO SUNNY MESA PILOT SEAWATER DESALINATION PLANT
INTAKE AND WASTE STREAM DISCHARGE WATER QUALITY

ANALYTE			DESAL PLANT INTAKE SEAWATER	INTERMITTENT WASTE STREAMS		CONTINUOUS WASTE STREAMS				TOTAL DESAL PLANT DISCHARGE Worst Case	Ocean Plan WQ Objective 6-Month avg./ Daily Max / Instant Max
				CLEANING SOLUTION # 1	CLEANING SOLUTION #2	RO CONCEN-TRATE	SEDIMENTATION TANK RESIDUALS	PRETREATMENT FILTER BACKWASH	PERMEATE		
GROUP A											
Biochemical Oxygen Demand	SM 5210 B	milligrams/L	<1	490	10	<10	<1	20	<1	5.89	No Limit
COD	EPA 410.4	milligrams/L	98	2800	440	<100	50	91	<5	75.49	No Limit
Total Organic Carbon	SM 5310 C	milligrams/L	1.2	1300	25	0.7	0.5	1.3	1.3	1.73	No Limit
Total Suspended Solids	EPA 160.2	milligrams/L	30	5	5	<5	240	130	0.01	55.0	60
Ammonia (as N)	SM 4500 NH3	milligrams/L	0.10	0.10	0.14	0.12	0.10	0.10	0.10	0.10	0.6/2.4/6.0
pH	SM 4500 H B	pH units	7.80	7.28	7.06	7.49	7.80	7.63	7.90	7.73	6 to 9
GROUP B											
Bromide	EPA 300.0	milligrams/L	67	44	52	120	67	53	0.7	62.23	No Limit
Boron	EPA 200.8	milligrams/L	4.2	3.5	3.2	7.6	4.2	3.8	0.9	4.16	No Limit
Color	EPA 110.2	color units	3	3	3	3	3	3	3	3.00	No Limit
Coliforms, fecal	SM 9221 E	MPN/100ml	2	2	2	<2	<2	130	0	2.00	<1,000
Fluoride	EPA 300.0	milligrams/L	2.0	0.5	0.5	2.1	2.0	<0.5	0.5	1.49	No Limit
Nitrate (as N)	EPA 300.0	milligrams/L	0.5	0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.50	No Limit
Oil and Grease	EPA 1664	milligrams/L	1.0	5.0	5.0	<5	<5	<5	0.0	2.60	25/40/75
Phosphorus (as P) Total	EPA 365.3	milligrams/L	0.05	0.05	0.05	<0.05	0.30	0.44	0.00	0.12	No Limit
Radioactivity											
Gross Beta	EPA 900.0	picocuries/L	202	320	271	765	202	601	0	334	No Limit
Total Alpha Radium (226)		picocuries/L	0.194	0.314	0.052	0.128	0.194	0.212	0.000	0.145	No Limit
Radium 228		picocuries/L	NA	NA	NA	NA	NA	NA	NA	NA	No Limit
Sulfate	EPA 300.0	milligrams/L	2700	1700	2000	5300	2700	2400	20	2638	No Limit
Sulfide	SM 4500 S2 D	milligrams/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	No Limit
Sulfite	SM 4500 SO3	milligrams/L	<2	<2	<2	<2	<2	<2	<2	<2	No Limit
Surfactants	SM 5540 C	milligrams/L	0.13	0.05	0.11	0.08	0.13	0.11	0.00	0.09	No Limit
Aluminum	EPA 200.8	milligrams/L	11	15	10	0.024	16	2.6	0.60	5.97	No Limit
Barium	EPA 200.8	micrograms/L	5.8	7.5	4.4	15	6	20	0	8.67	No Limit
Cobalt	EPA 200.8	micrograms/L	1.4	0.88	0.9	2.8	1.4	2.3	0.1	1.55	No Limit
Iron	EPA 200.7	milligrams/L	<0.04	<0.04	<0.04	<0.04	12	22	0.05	4.53	No Limit
Magnesium	EPA 200.7	milligrams/L	1600	1000	1100	3100	1600	1400	80	1565	No Limit
Molybdenum	EPA 200.8	micrograms/L	12	8.5	8.5	28	12	14	1	11.78	No Limit
Manganese	EPA 200.8	micrograms/L	9	6.3	6.6	17	<1	40	<1	8.37	No Limit
Tin	EPA 200.8	micrograms/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	No Limit
Titanium	EPA 200.7	micrograms/L	<10	<10	<10	<10	<10	<10	<10	<10	No Limit
SECTION 1											
Antimony	EPA 200.8	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Beryllium	EPA 200.8	micrograms/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.03
Chromium, total	EPA 200.8	micrograms/L	<5	<5	<5	<4	<6	9	<5	<5	2.0/8.0/20.0
Lead	EPA 200.8	micrograms/L	1.5	<1	<1	<1	1.5	2.6	0.08	1.28	2.0/8.0/20.0
Nickel	EPA 200.8	micrograms/L	14	14.0	14.0	19	14	21	1	13.39	5.0/20.0/50.0
Silver	EPA 200.8	micrograms/L	5.0	5.0	5.0	<0.5	5.0	<0.5	<0.5	5.00	0.7/2.8/7.0
Zinc	EPA 200.8	micrograms/L	24	10	10	10	24	45	22.00	23.94	20.0/80.0/200.0
Phenols (see individual phenolics)											
Arsenic	EPA 200.8	micrograms/L	<2	<2	<2	<2	<2	0	27	<2	8/32/80
Cadmium	EPA 200.8	micrograms/L	0.6	0.6	0.6	<0.5	2.0	0.6	<0.5	0.6	1.0/4.0/10.0
Copper	EPA 200.8	micrograms/L	6	6	6	<2	10	4	10.00	6	3.0/12.0/30.0
Mercury	EPA 245.1	micrograms/L	0.1	0.1	0.1	<0.2	0.2	0.1	<0.2	0.1	0.04/0.16/0.4
Selenium	EPA 200.8 Hy	micrograms/L	<0.2	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.2	15.0/60.0/150.0
Thallium	EPA 200.8	micrograms/L	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	2 (30-day Avg.)
Cyanide	SM 4500 CN E	milligrams/L	<0.02	<0.02	<0.02	<0.05	0.02	<0.02	<0.05	<0.02	1.0/4.0/10.0
SECTION 2											
2,3,7,8-TCDD		picograms/L	ND	ND	ND	ND	ND	ND	ND	ND	No Limit

ATTACHMENT "B"

PAJARO SUNNY MESA PILOT SEAWATER DESALINATION PLANT
INTAKE AND WASTE STREAM DISCHARGE WATER QUALITY

ANALYTE			DESAL PLANT INTAKE SEAWATER	INTERMITTENT WASTE STREAMS		CONTINUOUS WASTE STREAMS				TOTAL DESAL PLANT DISCHARGE Worst Case	Ocean Plan WQ Objective 6-Month avg./ Daily Max /
				CLEANING SOLUTION # 1	CLEANING SOLUTION #2	RO CONCEN-TRATE	SEDIMENTATION TANK RESIDUALS	PRETREATMENT FILTER BACKWASH	PERMEATE		
SECTION 3											
Volatile Organics (all VOCs	EPA 524.2	micrograms/L	ND	ND	ND	ND	ND	ND	ND	ND	No Limit
are Non-Detectible, except...)											
2-Butanone	EPA 524.2	micrograms/L	<5	<5	210	<5	<5	<5	<5	<5	No Limit
Bromoform	EPA 524.2	micrograms/L	0.98	<0.5	<0.5	1.40	<0.5	<0.5	<0.5	0.98	No Limit
Acid Compounds											
2-Chlorophenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1.0/4.0/10.0
2,4-Dimethylphenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1.0/4.0/10.0
2,4-Dinitrophenol	EPA 625	micrograms/L	<20	<20	<20	<20	<20	<20	<20	<20	1.0/4.0/10.0
4-Nitrophenol	EPA 625	micrograms/L	<10	<10	<10	<10	<10	<10	<10	<10	1.0/4.0/10.0
Pentachlorophenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1.0/4.0/10.0
2,4,6-Trichlorophenol	EPA 625	micrograms/L	<10	<10	<10	<10	<10	<10	<10	<10	1.0/4.0/10.0
2,4-Dichlorophenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1.0/4.0/10.0
2-Methyl-4,6-dinitrophenol	EPA 625	micrograms/L	<10	<10	<10	<10	<10	<10	<10	<10	1.0/4.0/10.0
2-Nitrophenol	EPA 625	micrograms/L	<10	<10	<10	<10	<10	<10	<10	<10	1.0/4.0/10.0
4-Chloro-3-methylphenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1.0/4.0/10.0
Phenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	30/120/300
Base/Neutrals											
Acenaphthene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Anthracene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benz(a)anthracene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzo(b)fluoranthene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzo(k)fluoranthene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
bis(2-Chloroethyl)ether	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1200 (30-day avg.)
bis(2-Ethylhexyl)phthalate	EPA 625	micograms/L	<5	<5	<5	<5	<5	<5	<5	<5	3.5 (30 day avg.)
Butylbenzyl phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
4-Chlorophenylphenylether	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Dibenz(a,h)anthracene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1,3-Dichlorobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
3,3'-Dichlorobenzidine	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Dimethyl phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	33,000 (30-day avg.)
2,4-Dinitrotoluene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Di-n-octyl phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Fluoranthene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Hexachlorobenzene	EPA 508	micrograms/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	No Limit
Hexachlorocyclopentadiene	EPA 508	micrograms/L	<1	<1	<1	<1	<1	<1	<1	<1	58 (30-day avg.)
Indeno(1,2,3-c)pyrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Naphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
N-Nitrosodimethylamine	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
N-Nitrosodiphenylamine	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Pyrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Acenaphthylene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzidine	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	0.000069 (30-day avg.)
Benzo(a)pyrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzo(g,h,I)perylene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
bis (2-Chloroethoxy)methane	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	4.4 (30-day avg.)
bis(2-Chloroisopropyl)ether	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1,200 (30-day avg.)
4-Bromophenylphenylether	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
2-Chloronaphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Chrysene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1,2-Dichlorobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1,4-Dichlorobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Diethyl phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Dibutyl phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
2,6-Dinitrotoluene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit

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ANALYTE			DESAL PLANT INTAKE SEAWATER	INTERMITTENT WASTE STREAMS		CONTINUOUS WASTE STREAMS				TOTAL DESAL PLANT DISCHARGE Worst Case	Ocean Plan WQ Objective 6-Month avg./ Daily Max /
				CLEANING SOLUTION # 1	CLEANING SOLUTION #2	RO CONCEN-TRATE	SEDIMENTATION TANK RESIDUALS	PRETREATMENT FILTER BACKWASH	PERMEATE		
Azobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Fluorene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Hexachlorobutadiene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Hexachloroethane	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Isophorone	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Nitrobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	4.9 (30-day avg.)
N-nitrosodi-n-propylamine	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Phenanthrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1,2,4-Trichlorobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
PESTICIDES											
Aldrin	EPA 508	micrograms/L	<0.05	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.05	0.000022 (30-day avg.)
BHC-alpha	EPA 508	micrograms/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	No Limit
BHC-beta	EPA 508	micrograms/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	No Limit
4,4'-DDD	EPA 508	micrograms/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	No Limit
4,4'-DDT	EPA 508	micrograms/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	No Limit
Endosulfan I	EPA 508	micrograms/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	No Limit
Endosulfan II	EPA 508	micrograms/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.01	<0.10	No Limit
Endosulfan sulfate	EPA 508	micrograms/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	No Limit
Endrin	EPA 508	micrograms/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	No Limit
Endrin aldehyde	EPA 508	micrograms/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.1	No Limit
Heptachlor	EPA 508	micrograms/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.05	No Limit
Heptachlor epoxide	EPA 508	micrograms/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.05	No Limit
Arochlors (PCBs)	EPA 508	micrograms/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	No Limit
Toxaphene	EPA 508	micrograms/L	<1	<1	<1	<1	<1	<1	<1	<1	No Limit
BHC-delta	EPA 508	micrograms/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	No Limit
BHC-gamma (Lindane)	EPA 508	micrograms/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	No Limit
Chlordane-alpha	EPA 508	micrograms/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	No Limit
Chlordane-gamma	EPA 508	micrograms/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	No Limit
4,4'-DDE	EPA 508	micrograms/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	No Limit
Dieldrin	EPA 508	micrograms/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	No Limit
OTHERS											
1-Methylnaphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1-Methylphenanthrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
2,3,5-Trimethylnaphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
2,4'-DDD	EPA 508	micrograms/L	<1	<1	<1	<1	<1	<1	<1	<1	No Limit
2,4'-DDE	EPA 508	micrograms/L	<1	<1	<1	<1	<1	<1	<1	<1	No Limit
2,4'-DDT	EPA 508	micrograms/L	<1	<1	<1	<1	<1	<1	<1	<1	No Limit
2,6-Dimethylnaphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
2-Methylnaphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzo(e)pyrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Biphenyl	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Methoxychlor	EPA 508	micrograms/L	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<0.5	No Limit
Mirex	EPA 508	micrograms/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	No Limit
Perylene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Polychlorinated biphenyls (PCBs)	EPA 508	micrograms/L	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<0.1	<1.0	No Limit
Tributyltin		micrograms/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	85,000 (30-day average)
trans-Nonachlor	EPA 508	micrograms/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	No Limit