Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Jan-99	Apr-99	Jul-99	Oct-99	Jan-00	Apr-00	Jul-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Jan-02	Apr-02
Water Quality Objectives															
Marine Aquatic Life Protection															
Phenolic Compounds (non-chlorinated)	µg/L	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
PHENOL	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-NITROPHENOL	µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
2,4-DIMETHYLPHENOL	µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
2,4-DINITROPHENOL	µg/L	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
4-NITROPHENOL	µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4,6-DINITRO-2-METHYLPHENOL	µg/L	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Phenolic Compounds (chlorinated)*	µg/L	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
2-CHLOROPHENOL	µg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2,4-DICHLOROPHENOL	µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-CHLORO-3-METHYLPHENOL	µg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2,4,6-TRICHLOROPHENOL	µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
PENTACHLOROPHENOL	µg/L	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
ENDOSULFAN	µg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
ENDOSULFAN - ALPHA	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ENDOSULFAN - BETA	µg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
ENDOSULFAN SULFATE	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
ENDRIN	µg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
HCH*	µg/L	**0.014**	**0.024**	**0.022**	**0.01**	**0.01**	**0.017**	**0.013**	**0.016**	**0.031**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
ALPHA-BHC	µg/L	<0.001	<0.001	0.002	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BETA-BHC	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
GAMMA-BHC	µg/L	0.014	0.024	0.022	0.01	0.01	0.017	0.013	0.012	0.031	<0.001	<0.001	<0.001	<0.001	<0.001
DELTA-BHC	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Human Health Protection (noncarcinogens)															
ACROLEIN	µg/L	<4.46	<4.46	<4.46	<4.46	<4.46	<4.46	<4.46	<2.40	<2.40	<2.40	<2.40	<2.40	<2.40	<2.40
ANTIMONY	µg/L	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**5**	**5**	**5**	**5**	**10**	**2.5**	**2.5**	**2.5**
BIS(2-CL-ETHOXY)METHANE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Jul-02	Oct-02	Jan-03	Apr-03	Jun-03	Jul-03	Oct-03	January 1, 2004	January 27, 2004	Apr-04	Jun-04
Water Quality Objectives												
Marine Aquatic Life Protection												
Phenolic Compounds (non-chlorinated)	µg/L	<1	<4	<4	<4		<4	1.9	<4	0.3	<4	<4
PHENOL	µg/L	<1	<1	<0.4	<0.4		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
2-NITROPHENOL	µg/L	<1	<2	<0.09	<0.09		<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
2,4-DIMETHYLPHENOL	µg/L	<1	<2	<0.17	<0.17		<0.17	1.9	<0.17	0.3	<0.17	<0.17
2,4-DINITROPHENOL	µg/L	<1	<2	<0.21	<0.21		<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
4-NITROPHENOL	µg/L	<1	<4	<0.06	<0.06		<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
4,6-DINITRO-2-METHYLPHENOL	µg/L	<1	<2	<0.4	<0.4		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Phenolic Compounds (chlorinated)*	µg/L	<1	<2	<0.4	0.46		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
2-CHLOROPHENOL	µg/L	<1	<1	<0.09	<0.09		<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
2,4-DICHLOROPHENOL	µg/L	<1	<1	<0.09	0.46		<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
4-CHLORO-3-METHYLPHENOL	µg/L	<1	<2	<0.18	<0.18		<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
2,4,6-TRICHLOROPHENOL	µg/L	<1	<1	<0.09	<0.09		<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
PENTACHLOROPHENOL	µg/L	<1	<1	<0.4	<0.4		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
ENDOSULFAN	µg/L	<0.002	<0.002	<0.0011	<0.004		<0.004	<0.004	<0.004	<0.003	<0.004	<0.004
ENDOSULFAN - ALPHA	µg/L	<0.001	<0.001	<0.0014	<0.0014		<0.0014	<0.0014	<0.0014	<0.001	<0.0014	<0.0014
ENDOSULFAN - BETA	µg/L	<0.001	<0.001	<0.0011	<0.0011		0.002	<0.0011	<0.001	<0.002	<0.001	<0.001
ENDOSULFAN SULFATE	µg/L	<0.002	<0.002	<0.004	<0.004		<0.004	<0.004	<0.004	<0.003	<0.004	<0.004
ENDRIN	µg/L	<0.001	<0.001	<0.007	<0.007		<0.007	0.009	<0.007	<0.005	<0.007	<0.007
HCH*	µg/L	**0.0005**	**0.0045**	**0.00115**	**0.00115**		**0.006**	**0.005**	**0.00115**	**0.003**	**0.00115**	**0.00115**
ALPHA-BHC	µg/L	<0.001	<0.001	<0.0023	<0.0023		<0.0023	<0.0023	<0.0023	<0.001	<0.0023	<0.0023
BETA-BHC	µg/L	<0.001	<0.001	<0.0019	<0.0019		<0.0019	<0.0019	<0.0019	<0.002	<0.0019	<0.0019
GAMMA-BHC	µg/L	<0.001	0.0045	<0.0020	<0.0020		0.006	0.005	<0.002	0.003	<0.002	<0.002
DELTA-BHC	µg/L	<0.001	<0.001	<0.0007	<0.0007		<0.0007	<0.0007	<0.0007	<0.001	<0.0007	<0.0007
Human Health Protection (noncarcinogens)												
ACROLEIN	µg/L	<0.9	<0.9	<0.76	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
ANTIMONY	µg/L	**2.5**	**2.5**	**0.65**	**0.65**		**2**	**1.24**	**1.88**		**0.96**	**0.91**
BIS(2-CL-ETHOXY)METHANE	µg/L	<1	<1	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Number of Nondetect	Number of Samples	Percent of Nondetect	Maximum Detected Effluent Concentration	Maximum Reported Effluent Concentration (max MDL if 100% ND or max MDL > max detect)	Standard Deviation	Mean	CV (set as 0.6 if nondetect >80%)	Multiplier	Projected Maximum Effluent Concentration (99/99)	Dilution Ratio	Background Seawater Concentration	Projected Maximum Receiving Water Concentration
Water Quality Objectives														
Marine Aquatic Life Protection														
Phenolic Compounds (non-chlorinated)	µg/L	22	24	92%	1.9	31			0.6	2.16166	67.0113398	13		4.786524
PHENOL	µg/L													
2-NITROPHENOL	µg/L													
2,4-DIMETHYLPHENOL	µg/L													
2,4-DINITROPHENOL	µg/L													
4-NITROPHENOL	µg/L													
4,6-DINITRO-2-METHYLPHENOL	µg/L													
Phenolic Compounds (chlorinated)*	µg/L	23	24	96%	0.46	8			0.6	2.16166	17.293249	13		1.235232
2-CHLOROPHENOL	µg/L													
2,4-DICHLOROPHENOL	µg/L													
4-CHLORO-3-METHYLPHENOL	µg/L													
2,4,6-TRICHLOROPHENOL	µg/L													
PENTACHLOROPHENOL	µg/L													
ENDOSULFAN	µg/L	24	24	100%		0.004			0.6	2.16166	0.00864662	13		0.000618
ENDOSULFAN - ALPHA	µg/L													
ENDOSULFAN - BETA	µg/L													
ENDOSULFAN SULFATE	µg/L													
ENDRIN	µg/L	23	24	96%	0.009	0.009			0.6	2.16166	0.01945491	13		0.00139
HCH*	µg/L	11	24	46%	0.031	0.031	0.0088	0.0078	1.1306	3.53052	0.10944627	13		0.007818
ALPHA-BHC	µg/L													
BETA-BHC	µg/L													
GAMMA-BHC	µg/L													
DELTA-BHC	µg/L													
Human Health Protection (noncarcinogens)														
ACROLEIN	µg/L	25	25	100%		4.46			0.6	2.1319	9.50825851	13		0.679161
ANTIMONY	µg/L	17	23	74%	10	10	2.0475	2.8604	0.7158	2.48695	24.869546	13		1.776396
BIS(2-CL-ETHOXY)METHANE	µg/L	24	24	100%		1			0.6	2.16166	2.16165612	13		0.154404

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Ocean Plan Water Quality Objectives	REASONABLE POTENTIAL (RP)	Calculated Effluent Limitations (EfflLt)	Maximum MDL Reported (Jan 2003 - Jun 2004)	Performance Goals (PG) = MDLx 5 (for carcinogens) or 10 (for noncarcinogens)	PG = 95th Percentile (if nondetect < 80%)	Maximum Detected Effluent Concentration	Proposed Effluent Limits	Possible PG	Proposed PG	Basis for PG
Water Quality Objectives												
Marine Aquatic Life Protection												
Phenolic Compounds (non-chlorinated)	µg/L	30	No	420	**0.4**	2		1.9	No Limit	1.9	**1.9**	Max eff conc
PHENOL	µg/L											
2-NITROPHENOL	µg/L											
2,4-DIMETHYLPHENOL	µg/L											
2,4-DINITROPHENOL	µg/L											
4-NITROPHENOL	µg/L											
4,6-DINITRO-2-METHYLPHENOL	µg/L											
Phenolic Compounds (chlorinated)*	µg/L	1	**Yes**	**14**	**0.4**	2		0.46	**14**	0.46	**0.46**	Max eff conc
2-CHLOROPHENOL	µg/L											
2,4-DICHLOROPHENOL	µg/L											
4-CHLORO-3-METHYLPHENOL	µg/L											
2,4,6-TRICHLOROPHENOL	µg/L											
PENTACHLOROPHENOL	µg/L											
ENDOSULFAN	µg/L	0.009	No	0.126	**0.004**	0.02		ND	No Limit	0.02	**0.02**	from MDL
ENDOSULFAN - ALPHA	µg/L											
ENDOSULFAN - BETA	µg/L											
ENDOSULFAN SULFATE	µg/L											
ENDRIN	µg/L	0.002	No	0.028	0.007	0.035		0.009	No Limit	0.009	**0.009**	Max eff conc
HCH*	µg/L	0.004	**Yes**	**0.056**	**0.0023**	0.0115	**0.026**	0.031	**0.056**	0.026	**0.026**	95th percentile
ALPHA-BHC	µg/L											
BETA-BHC	µg/L											
GAMMA-BHC	µg/L											
DELTA-BHC	µg/L											
Human Health Protection (noncarcinogens)												
ACROLEIN	µg/L	220	No	3080	2	20		ND	No Limit	20	**20**	from MDL
ANTIMONY	µg/L	1200	No	16800	1.24	12.4	**5**	10	No Limit	5	**5**	95th percentile
BIS(2-CL-ETHOXY)METHANE	µg/L	4.4	No	61.6	0.05	0.5		ND	No Limit	0.5	**0.5**	from MDL

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Jan-99	Apr-99	Jul-99	Oct-99	Jan-00	Apr-00	Jul-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Jan-02	Apr-02
BIS(2-CL-ISOPROPYL)ETHER	µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
CHROMIUM (total)															
CHLOROBENZENE	µg/L	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113
DI-N-BUTYL PHTHALATE	µg/L	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DICHLOROBENZENES (BNA)	µg/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
1,2-DICHLOROBENZENE	µg/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
1,3-DICHLOROBENZENE	µg/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
DIETHYL PHTHALATE	µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
DIMETHYL PHTHALATE	µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
2-METHYL-4,6-DINITROPHENOL	µg/L	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
2,4-DINITROPHENOL*	µg/L	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
ETHYL BENZENE	µg/L	0.17	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062
FLUORANTHENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
HEXACHLOROCYCLOPENTADIENE	µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
NITROBENZENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
THALLIUM	µg/L	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5	2.5	2.5	2.5
TOLUENE	µg/L	0.03	0.29	0.03	0.397	0.03	0.03	0.03	0.03	0.03	0.234	0.163	0.165	0.176	0.0305
Tributyltin*	ng/L	7	3	1	1	2	1	1	1	28	6	2	1	4	4
1,1,1-TRICHLOROETHANE	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
Human Health Protection (carcinogens)															
ACRYLONITRILE*	µg/L	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<2.21	<2.21	<2.21	<2.21	<2.21	<2.21	<2.21
ALDRIN*	µg/L	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
BENZENE	µg/L	<0.064	<0.064	<0.064	<0.064	<0.064	0.36	<0.087	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
BENZIDINE*	µg/L	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47
BERYLLIUM*	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
BIS(2-CHLOROETHYL)ETHER*	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BIS(2-ETHYLHEXYL) PHTHALATE*	µg/L	17.4	12.6	4.87	8.28	7.15	1.5	3.1	1.5	1.5	1.5	3.9	1.5	1.5	1.5
CARBON TETRACHLORIDE	µg/L	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	1.289	<0.114	<0.114	<0.114	<0.114	<0.114	<0.114	<0.114

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Jul-02	Oct-02	Jan-03	Apr-03	Jun-03	Jul-03	Oct-03	January 1, 2004	January 27, 2004	Apr-04	Jun-04
BIS(2-CL-ISOPROPYL)ETHER	µg/L	<1	<1	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
CHROMIUM (total)												
CHLOROBENZENE	µg/L	<0.2	<0.2	<0.10	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
DI-N-BUTYL PHTHALATE	µg/L	**1.5**	**1.5**	**0.25**	**0.035**		**0.035**	**0.77**	**0.65**	**0.22**	**0.35**	**0.18**
DICHLOROBENZENES (BNA)	µg/L	<1	<1	<0.06	<0.06		0.15	0.17	<0.06	<0.06	<0.06	<0.06
1,2-DICHLOROBENZENE	µg/L	<1	<1	<0.06	<0.06		0.15	0.17	<0.06	<0.06	<0.06	<0.06
1,3-DICHLOROBENZENE	µg/L	<1	<1	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DIETHYL PHTHALATE	µg/L	<0.3	<0.4	<0.06	<0.06		<0.06	<0.06	0.1	<0.06	<0.06	<0.06
DIMETHYL PHTHALATE	µg/L	<0.1	<0.3	<0.27	<0.27		<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
2-METHYL-4,6-DINITROPHENOL	µg/L	<1	<2	<0.4	<0.4		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
2,4-DINITROPHENOL*	µg/L	<1	<2	<0.21	<0.21		<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
ETHYL BENZENE	µg/L	<0.06	<0.06	<0.12	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
FLUORANTHENE	µg/L	<1	<1	<0.06	<0.06		<0.06	0.18	0.11	<0.06	<0.06	<0.06
HEXACHLOROCYCLOPENTADIENE	µg/L	<1	<1	<2.9	<2.9		<2.9	<2.9	<2.9	<2.9	<2.9	<2.9
NITROBENZENE	µg/L	<1	<2	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
THALLIUM	µg/L	**1**	**1**	**0.15**	**0.15**		**0.68**	**0.54**	**2.92**		**0.025**	**0.47**
TOLUENE	µg/L	**0.1**	**0.1**	**0.04**	**0.23**	**0.78**	**0.21**	**0.32**	**0.04**	**0.22**	**0.18**	**0.6**
Tributyltin*	ng/L	**1**	**1**	**1**	**1.6**		**1.65**	**10.0**	**0.5**		**0.5**	
1,1,1-TRICHLOROETHANE	µg/L	<0.07	<0.07	<0.09	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Human Health Protection (carcinogens)												
ACRYLONITRILE*	µg/L	<0.7	<0.7	<0.23	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
ALDRIN*	µg/L	<0.001	<0.001	<0.0016	<0.0016		<0.0016	<0.0016	<0.0016	<0.001	<0.0016	<0.0016
BENZENE	µg/L	<0.3	<0.3	<0.14	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
BENZIDINE*	µg/L	<2	<2	<5	<5		<5	<5	<5	<5	<5	<5
BERYLLIUM*	µg/L	<1	<1	<0.01	<0.01		0.171	<0.006	<0.012		<0.006	0.162
BIS(2-CHLOROETHYL)ETHER*	µg/L	<1	<1	<0.09	<0.09		<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
BIS(2-ETHYLHEXYL) PHTHALATE*	µg/L	**3.04**	**2.02**	**6.42**	**1.86**		**0.88**	**2.51**	**1.1**	**1.8**	**1.2**	**1.7**
CARBON TETRACHLORIDE	µg/L	<0.1	<0.1	<0.14	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Number of Nondetect	Number of Samples	Percent of Nondetect	Maximum Detected Effluent Concentration	Maximum Reported Effluent Concentration (max MDL if 100% ND or max MDL > max detect)	Standard Deviation	Mean	CV (set as 0.6 if nondetect >80%)	Multiplier	Projected Maximum Effluent Concentration (99/99)	Dilution Ratio	Background Seawater Concentration	Projected Maximum Receiving Water Concentration
BIS(2-CL-ISOPROPYL)ETHER	µg/L	24	24	100%		3			0.6	2.16166	6.48496836	13		0.463212
CHROMIUM (total)														
CHLOROBENZENE	µg/L	25	25	100%		0.2			0.6	2.1319	0.42637931	13		0.030456
DI-N-BUTYL PHTHALATE	µg/L	18	24	75%	0.77	3	0.5914	1.1038	0.5358	2.01061	6.03182416	13		0.430845
DICHLOROBENZENES (BNA)	µg/L	22	24	92%	0.17	1.5			0.6	2.16166	3.24248418	13		0.231606
1,2-DICHLOROBENZENE	µg/L													
1,3-DICHLOROBENZENE	µg/L													
DIETHYL PHTHALATE	µg/L	23	24	96%	0.1	3			0.6	2.16166	6.48496836	13		0.463212
DIMETHYL PHTHALATE	µg/L	24	24	100%		3			0.6	2.16166	6.48496836	13		0.463212
2-METHYL-4,6-DINITROPHENOL	µg/L	24	24	100%		6			0.6	2.16166	12.9699367	13		0.926424
2,4-DINITROPHENOL*	µg/L	24	24	100%		31			0.6	2.16166	67.0113398	13		4.786524
ETHYL BENZENE	µg/L	24	25	96%	0.17	0.17			0.6	2.1319	0.36242241	13		0.025887
FLUORANTHENE	µg/L	22	24	92%	0.18	1			0.6	2.16166	2.16165612	13		0.154404
HEXACHLOROCYCLOPENTADIENE	µg/L	24	24	100%		3			0.6	2.16166	6.48496836	13		0.463212
NITROBENZENE	µg/L	24	24	100%		2			0.6	2.16166	4.32331224	13		0.308808
THALLIUM	µg/L	18	23	78%	5	5	1.2051	1.9320	0.6238	2.25254	11.2626963	13		0.804478
TOLUENE	µg/L	12	25	48%	0.78	0.78	0.1888	0.1794	1.0523	3.24998	2.53498384	13		0.18107
Tributyltin*	ng/L	15	22	68%	28	28	5.9654	3.6023	1.6560	5.25491	147.13734	13		10.50981
1,1,1-TRICHLOROETHANE	µg/L	25	25	100%		0.18			0.6	2.1319	0.38374137	13		0.02741
Human Health Protection (carcinogens)														
ACRYLONITRILE*	µg/L	25	25	100%		2.21			0.6	2.1319	4.71149132	13		0.336535
ALDRIN*	µg/L	24	24	100%		0.008			0.6	2.16166	0.01729325	13		0.001235
BENZENE	µg/L	24	25	96%	0.36	0.36			0.6	2.1319	0.76748275	13		0.05482
BENZIDINE*	µg/L	24	24	100%		47			0.6	2.16166	101.597838	13		7.256988
BERYLLIUM*	µg/L	21	23	91%	0.171	1			0.6	2.19343	2.19343455	13		0.156674
BIS(2-CHLOROETHYL)ETHER*	µg/L	24	24	100%		1			0.6	2.16166	2.16165612	13		0.154404
BIS(2-ETHYLHEXYL) PHTHALATE*	µg/L	7	24	29%	17.4	17.4	4.0613	3.7638	1.0790	3.39247	59.0289893	13		4.216356
CARBON TETRACHLORIDE	µg/L	24	25	96%	1.289	1.289			0.6	2.1319	2.74801462	13		0.196287

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Ocean Plan Water Quality Objectives	REASONABLE POTENTIAL (RP)	Calculated Effluent Limitations (EffLt)	Maximum MDL Reported (Jan 2003 - Jun 2004)	Performance Goals (PG) = MDLx 5 (for carcinogens) or 10 (for noncarcinogens)	PG = 95th Percentile (if nondetect < 80%)	Maximum Detected Effluent Concentration	Proposed Effluent Limits	Possible PG	Proposed PG	Basis for PG
BIS(2-CL-ISOPROPYL)ETHER	µg/L	1200	No	16800	0.05	0.5		ND	No Limit	0.5	**0.5**	from MDL
CHROMIUM (total)												
CHLOROBENZENE	µg/L	570	No	7980	0.12	1.2		ND	No Limit	1.2	**1.2**	from MDL
DI-N-BUTYL PHTHALATE	µg/L	3500	No	49000	0.07	0.7	**3.9**	0.77	No Limit	0.77	**0.77**	Max eff conc
DICHLOROBENZENES (BNA)	µg/L	5100	No	71400	0.06	0.6		0.17	No Limit	0.17	**0.17**	Max eff conc
1,2-DICHLOROBENZENE	µg/L				0.06							
1,3-DICHLOROBENZENE	µg/L				0.05							
DIETHYL PHTHALATE	µg/L	33000	No	462000	0.06	0.6		0.1	No Limit	0.1	**0.1**	Max eff conc
DIMETHYL PHTHALATE	µg/L	820000	No	11480000	0.27	2.7		ND	No Limit	2.7	**2.7**	from MDL
2-METHYL-4,6-DINITROPHENOL	µg/L	220	No	3080	0.4	4		ND	No Limit	4	**4**	from MDL
2,4-DINITROPHENOL*	µg/L	4.0	**Yes**	**56**	0.21	2.1		ND	**56**	2.1	**2.1**	from MDL
ETHYL BENZENE	µg/L	4100	No	57400	0.12	1.2		0.17	No Limit	0.17	**0.17**	Max eff conc
FLUORANTHENE	µg/L	15	No	210	0.06	0.6		0.18	No Limit	0.18	**0.18**	Max eff conc
HEXACHLOROCYCLOPENTADIENE	µg/L	58	No	812	2.9	29		ND	No Limit	29	**29**	from MDL
NITROBENZENE	µg/L	4.9	No	68.6	0.05	0.5		ND	No Limit	0.5	**0.5**	from MDL
THALLIUM	µg/L	2	No	28	0.3	3	**7.8**	5	No Limit	5	**5**	Max eff conc
TOLUENE	µg/L	85000	No	1190000	0.08	0.8	**0.46**	0.78	No Limit	0.46	**0.46**	95th percentile
Tributyltin*	ng/L	1.4	**Yes**	**19.6**	3.3	33	**7.2**	28	**19.6**	7.2	**7.2**	95th percentile
1,1,1-TRICHLOROETHANE	µg/L	540000	No	7560000	0.18	1.8		ND	No Limit	1.8	**1.8**	from MDL
Human Health Protection (carcinogens)												
ACRYLONITRILE*	µg/L	0.10	**Yes**	**1.4**	0.31	1.55		ND	**1.4**	1.55	**No PG**	--
ALDRIN*	µg/L	0.000022	**Yes**	**0.000308**	0.0016	0.008		ND	**0.000308**	0.008	**No PG**	--
BENZENE	µg/L	5.9	No	82.6	0.22	1.1		0.36	No Limit	0.36	**0.36**	Max eff conc
BENZIDINE*	µg/L	0.000069	**Yes**	**0.000966**	5	25		ND	**0.000966**	25	**No PG**	--
BERYLLIUM*	µg/L	0.033	**Yes**	**0.462**	0.01	0.05		0.171	**0.462**	0.05	**0.05**	from MDL
BIS(2-CHLOROETHYL)ETHER*	µg/L	0.045	**Yes**	**0.63**	0.09	0.45		ND	**0.63**	0.45	**0.45**	from MDL
BIS(2-ETHYLHEXYL) PHTHALATE*	µg/L	3.5	**Yes**	**49**	0.88	4.4	**6.9**	17.4	**49**	6.9	**6.9**	95th percentile
CARBON TETRACHLORIDE	µg/L	0.90	No	12.6	0.15	0.75		1.289	No Limit	0.75	**0.75**	from MDL

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Jan-99	Apr-99	Jul-99	Oct-99	Jan-00	Apr-00	Jul-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Jan-02	Apr-02
Chlordane*	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHLORDANE - ALPHA	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHLORDANE - GAMA	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
NONACHLOR - ALPHA	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
NONACHLOR - GAMA	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
OXYCHLORDANE	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHLORDENE - ALPHA	µg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005
CHLORDENE - GAMA	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHLORODIBROMOMETHANE	µg/L	**0.11**	**0.89**	**0.46**	**7.03**	**1.74**	**0.11**	**2.43**	**1.80**	**2.26**	**1.93**	**1.00**	**1.00**	**2.69**	**2.98**
CHLOROFORM	µg/L	**7.34**	**5.77**	**5.75**	**5.45**	**5.3**	**7.26**	**6.58**	**6.61**	**5.33**	**5.02**	**6.19**	**5.52**	**4.59**	**4.97**
DDT, total*	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4,4'-DDT	ng/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
4,4'-DDE	ng/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
4,4'-DDD	ng/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2,4'-DDT	ng/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2,4'-DDE	ng/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2,4'-DDD	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,4-DICHLOROBENZENE (BNA)	µg/L	**3.21**	**3.24**	**0.025**	**0.025**	**0.025**	**0.025**	**0.025**	**3.42**	**3.24**	**2.8**	**3.09**	**3.93**	**0.032**	**0.032**
3,3'-DICHLOROBENZIDINE*	µg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-DICHLOROETHANE	µg/L	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104
1,1-DICHLOROETHYLENE	µg/L	<0.132	<0.132	<0.132	<0.132	<0.132	<0.132	<0.132	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076
DICHLOROBROMOMETHANE	µg/L	**0.75**	**0.90**	**0.59**	**0.69**	**1.25**	**1.52**	**1.22**	**1.57**	**1.67**	**1.42**	**1.39**	**0.92**	**1.64**	**1.2**
METHYLENE CHLORIDE	µg/L	**0.211**	**5.72**	**5.91**	**5.72**	**8.90**	**0.211**	**6.65**	**4.64**	**10.68**	**3.12**	**2.85**	**18.06**	**3.677**	**6.113**
1,3-DICHLOROPROPENE	µg/L	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099
CIS-1,3-DICHLOROPROPENE	µg/L	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099
TRANS-1,3-DICHLOROPROPENE	µg/L	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.088	<0.088	<0.088	<0.088	<0.088	<0.088	<0.088
DIELDRIN*	µg/L	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
2,4-DINITROTOLUENE	µg/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
1,2-DIPHENYLHYDRAZINE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Jul-02	Oct-02	Jan-03	Apr-03	Jun-03	Jul-03	Oct-03	January 1, 2004	January 27, 2004	Apr-04	Jun-04
Chlordane*	µg/L	<0.001	<0.001	<0.09	<0.09		<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
CHLORDANE - ALPHA	µg/L	<0.001	<0.001	<0.07	<0.07		<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
CHLORDANE - GAMA	µg/L	<0.001	<0.001	<0.07	<0.07		<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
NONACHLOR - ALPHA	µg/L	<0.001	<0.001	<0.09	<0.09		<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
NONACHLOR - GAMA	µg/L	<0.001	<0.001	<0.09	<0.09		<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
OXYCHLORDANE	µg/L	<0.001	<0.001	<0.08	<0.08		<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
CHLORDENE - ALPHA	µg/L	<0.001	<0.001	--	--		--	--	--	--	--	--
CHLORDENE - GAMA	µg/L	<0.001	<0.001	--	--		--	--	--	--	--	--
CHLORODIBROMOMETHANE	µg/L	**1.26**	**1.28**	**1.33**	**2.37**	**1.47**	**1.03**	**0.81**	**1.11**	**1.73**	**1.37**	**1.79**
CHLOROFORM	µg/L	**4.99**	**5.76**	**3.71**	**5.92**	**7.09**	**6.49**	**5.72**	**4.32**	**5.23**	**5.34**	**7.94**
DDT, total*	ng/L	<1	<1	<6	<6		<6	<6	<6	<3	<6	<6
4,4'-DDT	ng/L	<1	<1	<6	<6		<6	<6	<6	<2	<6	<6
4,4'-DDE	ng/L	<1	<1	<1.8	<1.8		<1.8	<1.8	3	<2	<1.8	<1.8
4,4'-DDD	ng/L	<1	<1	<1.7	<1.7		<1.7	<1.7	<1.7	<1	<1.7	<1.7
2,4'-DDT	ng/L	<1	<1	<5	<5		<5	<5	<5	<3	<5	<5
2,4'-DDE	ng/L	<1	<1	<2.7	<2.7		<2.7	<2.7	<2.7	<1	<2.7	<2.7
2,4'-DDD	ng/L	<1	<1	<3.0	<3.0		<3.0	<3.0	<3.0	<1	<3.0	<3.0
1,4-DICHLOROBENZENE (BNA)	µg/L	**0.030**	**0.030**	**0.035**	**1.88**		**2.48**	**5.29**	**0.035**	**0.035**	**0.035**	**1.95**
3,3'-DICHLOROBENZIDINE*	µg/L	<1	<1	<0.11	<0.11		<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
1,2-DICHLOROETHANE	µg/L	<0.2	<0.2	<0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-DICHLOROETHYLENE	µg/L	<0.05	<0.05	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
DICHLOROBROMOMETHANE	µg/L	**1.08**	**1.22**	**1.25**	**1.38**	**1.56**	**1.03**	**0.93**	**0.98**	**1.15**	**1.14**	**1.66**
METHYLENE CHLORIDE	µg/L	**2.16**	**23.2**	**1.7**	**3.72**	**3.25**	**2.51**	**5.35**	**0.065**	**1.89**	**2.51**	**2.93**
1,3-DICHLOROPROPENE	µg/L	<0.2	<0.2	<0.18	<0.11		<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
CIS-1,3-DICHLOROPROPENE	µg/L	<0.06	<0.06	<0.13	<0.11		<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
TRANS-1,3-DICHLOROPROPENE	µg/L	<0.2	<0.2	<0.18	<0.07		<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
DIELDRIN*	µg/L	<0.001	<0.001	<0.0009	<0.0009		<0.0009	<0.0009	<0.0009	<0.001	<0.0009	<0.0009
2,4-DINITROTOLUENE	µg/L	<1	<1	<0.08	<0.08		<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1,2-DIPHENYLHYDRAZINE	µg/L	<1	<1	<0.06	<0.06		<0.06	<0.06	0.18	<0.06	<0.06	<0.06

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Number of Nondetect	Number of Samples	Percent of Nondetect	Maximum Detected Effluent Concentration	Maximum Reported Effluent Concentration (max MDL if 100% ND or max MDL > max detect)	Standard Deviation	Mean	CV (set as 0.6 if nondetect >80%)	Multiplier	Projected Maximum Effluent Concentration (99/99)	Dilution Ratio	Background Seawater Concentration	Projected Maximum Receiving Water Concentration
Chlordane*	µg/L	24	24	100%		0.09			0.6	2.16166	0.19454905	13		0.013896
CHLORDANE - ALPHA	µg/L													
CHLORDANE - GAMA	µg/L													
NONACHLOR - ALPHA	µg/L													
NONACHLOR - GAMA	µg/L													
OXYCHLORDANE	µg/L													
CHLORDENE - ALPHA	µg/L													
CHLORDENE - GAMA	µg/L													
CHLORODIBROMOMETHANE	µg/L	2	25	8%	7.03	7.03	1.3365	1.6793	0.7959	2.60205	18.2923942	13		1.3066
CHLOROFORM	µg/L	0	25	0%	7.94	7.94	0.9963	5.7676	0.1727	1.26376	10.0342915	13		0.716735
DDT, total*	ng/L	24	24	100%		10			0.6	2.16166	21.6165612	13		1.54404
4,4'-DDT	ng/L													
4,4'-DDE	ng/L													
4,4'-DDD	ng/L													
2,4'-DDT	ng/L													
2,4'-DDE	ng/L													
2,4'-DDD	ng/L													
1,4-DICHLOROBENZENE (BNA)	µg/L	13	24	54%	5.29	5.29	1.7005	5.2566	0.3235	1.5505	8.20212718	13		0.585866
3,3'-DICHLOROBENZIDINE*	µg/L	24	24	100%		2			0.6	2.16166	4.32331224	13		0.308808
1,2-DICHLOROETHANE	µg/L	25	25	100%		0.2			0.6	2.1319	0.42637931	13		0.030456
1,1-DICHLOROETHYLENE	µg/L	25	25	100%		0.132			0.6	2.1319	0.28141034	13		0.020101
DICHLOROBROMOMETHANE	µg/L	0	25	0%	1.67	1.67	0.3086	4.6876	0.0658	1.09393	1.82686307	13		0.13049
METHYLENE CHLORIDE	µg/L	3	25	12%	23.2	23.2	5.3373	6.4281	0.8303	2.68742	62.348187	13		4.453442
1,3-DICHLOROPROPENE	µg/L	24	24	100%		0.2			0.6	2.16166	0.43233122	13		0.030881
CIS-1,3-DICHLOROPROPENE	µg/L													
TRANS-1,3-DICHLOROPROPENE	µg/L													
DIELDRIN*	µg/L	24	24	100%		0.006			0.6	2.16166	0.01296994	13		0.000926
2,4-DINITROTOLUENE	µg/L	24	24	100%		1.5			0.6	2.16166	3.24248418	13		0.231606
1,2-DIPHENYLHYDRAZINE	µg/L	23	24	96%	0.18	1			0.6	2.16166	2.16165612	13		0.154404

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Ocean Plan Water Quality Objectives	REASONABLE POTENTIAL (RP)	Calculated Effluent Limitations (EffLt)	Maximum MDL Reported (Jan 2003 - Jun 2004)	Performance Goals (PG) = MDLx 5 (for carcinogens) or 10 (for noncarcinogens)	PG = 95th Percentile (if nondetect < 80%)	Maximum Detected Effluent Concentration	Proposed Effluent Limits	Possible PG	Proposed PG	Basis for PG
Chlordane*	µg/L	0.000023	Yes	0.000322	0.09	0.45		ND	0.000322	0.45	No PG	--
CHLORDANE - ALPHA	µg/L											
CHLORDANE - GAMA	µg/L											
NONACHLOR - ALPHA	µg/L											
NONACHLOR - GAMA	µg/L											
OXYCHLORDANE	µg/L											
CHLORDENE - ALPHA	µg/L											
CHLORDENE - GAMA	µg/L											
CHLORODIBROMOMETHANE	µg/L	8.6	No	120.4	0.13	0.65	**3.9**	7.03	No Limit	3.9	**3.9**	95th percentile
CHLOROFORM	µg/L	130	No	1820	0.13	0.65	**6.6**	7.94	No Limit	6.6	**6.6**	95th percentile
DDT, total*	ng/L	0.17	Yes	2.38	6	30		ND	2.38	30	No PG	--
4,4'-DDT	ng/L											
4,4'-DDE	ng/L											
4,4'-DDD	ng/L											
2,4'-DDT	ng/L											
2,4'-DDE	ng/L											
2,4'-DDD	ng/L											
1,4-DICHLOROBENZENE (BNA)	µg/L	18	No	252	0.07	0.35	**14**	5.29	No Limit	5.29	**5.29**	Max eff conc
3,3'-DICHLOROBENZIDINE*	µg/L	0.0081	Yes	0.1134	0.11	0.55		ND	0.1134	0.55	No PG	--
1,2-DICHLOROETHANE	µg/L	28	No	392	0.05	0.25		ND	No Limit	0.25	**0.25**	from MDL
1,1-DICHLOROETHYLENE	µg/L	0.9	No	12.6	0.13	0.65		ND	No Limit	0.65	**0.65**	from MDL
DICHLOROBROMOMETHANE	µg/L	6.2	No	86.8	0.16	0.8	**1.5**	1.67	No Limit	1.5	**1.5**	95th percentile
METHYLENE CHLORIDE	µg/L	450	No	6300	0.13	0.65	**22**	23.2	No Limit	22	**22**	95th percentile
1,3-DICHLOROPROPENE	µg/L	8.9	No	124.6	0.18	0.9		ND	No Limit	0.9	**0.9**	from MDL
CIS-1,3-DICHLOROPROPENE	µg/L											
TRANS-1,3-DICHLOROPROPENE	µg/L											
DIELDRIN*	µg/L	0.00004	Yes	0.00056	0.0009	0.0045		ND	0.00056	0.0045	No PG	--
2,4-DINITROTOLUENE	µg/L	2.6	No	36.4	0.08	0.4		ND	No Limit	0.4	**0.4**	from MDL
1,2-DIPHENYLHYDRAZINE	µg/L	0.16	No	2.24	0.06	0.3		0.18	No Limit	0.18	**0.18**	Max eff conc

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Jan-99	Apr-99	Jul-99	Oct-99	Jan-00	Apr-00	Jul-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Jan-02	Apr-02
Halomethanes	µg/L	**0.15**	**0.42**	**0.17**	**0.23**	**0.52**	**0.15**	**0.29**	**0.64**	**0.72**	**0.89**	**0.18**	**0.53**	**1.49**	**3.81**
CHLOROMETHANE	µg/L	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
BROMOMETHANE	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
BROMOFORM	µg/L	<0.15	0.42	0.17	0.23	0.52	<0.15	0.29	0.64	0.72	0.89	<0.145	0.53	1.49	3.81
HEPTACHLOR*	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
HEPTACHLOR EPOXIDE*	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
HEXACHLOROBENZENE*	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
HEXACHLOROBUTADIENE	µg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
HEXACHLOROETHANE	µg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
ISOPHORONE	µg/L	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**
N-NITROSODIMETHYLAMINE	µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
N-NITROSODI-N-PROPYLAMINE*	µg/L	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5
N-NITROSODIPHENYLAMINE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs*	µg/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
ACENAPHTHYLENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ANTHRACENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BENZO(A) ANTHRACENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BENZO(B) FLUORANTHENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BENZO(K) FLUORANTHENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,12-BENZOPERYLENE	µg/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
BENZO(A) PYRENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
CHRYSENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2:5,6-DIBENZANTHRACENE	µg/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
FLUORENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
INDENO (1,2,3-CD) PYRENE	µg/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PHENANTHRENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PYRENE	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Jul-02	Oct-02	Jan-03	Apr-03	Jun-03	Jul-03	Oct-03	January 1, 2004	January 27, 2004	Apr-04	Jun-04
Halomethanes	µg/L	**0.6**	**0.51**	**0.09**	**1.12**		**0.14**	**0.14**	**0.14**	**1.11**	**0.61**	**0.14**
CHLOROMETHANE	µg/L	<0.07	<0.07	<0.18	<0.14		<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
BROMOMETHANE	µg/L	<0.2	<0.2	<0.16	<0.28		<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
BROMOFORM	µg/L	0.6	0.51	<0.08	1.12		<0.19	<0.19	<0.19	1.11	0.61	<0.19
HEPTACHLOR*	µg/L	<0.001	<0.001	<0.0020	<0.0020		<0.0020	<0.0020	<0.0020	<0.001	<0.0020	<0.0020
HEPTACHLOR EPOXIDE*	µg/L	<0.001	<0.001	<0.0018	<0.0018		<0.0018	<0.0018	<0.0018	<0.001	<0.0018	<0.0018
HEXACHLOROBENZENE*	µg/L	<1	<0.3	<0.07	<0.07		<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
HEXACHLOROBUTADIENE	µg/L	<1	<1	<0.07	<0.07		<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
HEXACHLOROETHANE	µg/L	<1	<1	<0.07	<0.07		<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
ISOPHORONE	µg/L	**0.5**	**0.1**	**0.12**	**0.17**		**0.035**	**0.21**	**0.23**	**0.035**	**0.3**	**0.33**
N-NITROSODIMETHYLAMINE	µg/L	<3	<1	<0.17	<0.17		<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
N-NITROSODI-N-PROPYLAMINE*	µg/L	<3	<2	<0.13	<0.13		<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-NITROSODIPHENYLAMINE	µg/L	<1	<1	<0.09	<0.09		<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
PAHs*	µg/L	<1	<2	<0.19	<0.19		<0.19	1.58	0.2	<0.19	<0.19	<0.19
ACENAPHTHYLENE	µg/L	<1	<1	<0.06	<0.06		<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
ANTHRACENE	µg/L	<1	<1	<0.06	<0.06		<0.06	0.16	0.22	<0.06	<0.06	<0.06
BENZO(A) ANTHRACENE	µg/L	<0.4	<2	<0.09	<0.09		<0.09	0.28	<0.09	<0.09	<0.09	<0.09
BENZO(B) FLUORANTHENE	µg/L	<0.5	<1	<0.07	<0.07		<0.07	0.13	<0.07	<0.07	<0.07	<0.07
BENZO(K) FLUORANTHENE	µg/L	<1	<2	<0.19	<0.19		<0.19	0.21	<0.19	<0.19	<0.19	<0.19
1,12-BENZOPERYLENE	µg/L	<0.3	<1	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BENZO(A) PYRENE	µg/L	<0.4	<1	<0.06	<0.06		<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
CHRYSENE	µg/L	<1	<1	<0.05	<0.05		<0.05	0.19	<0.05	<0.05	<0.05	<0.05
1,2:5,6-DIBENZANTHRACENE	µg/L	<0.3	<1	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
FLUORENE	µg/L	<1	<1	<0.05	<0.05		<0.05	0.18	<0.05	<0.05	<0.05	<0.05
INDENO (1,2,3-CD) PYRENE	µg/L	<1	<1	<0.07	<0.07		<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
PHENANTHRENE	µg/L	<1	<1	<0.08	<0.08		<0.08	0.23	0.2	<0.08	<0.08	<0.08
PYRENE	µg/L	<1	<1	<0.07	<0.07		<0.07	0.2	<0.07	<0.07	<0.07	<0.07

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Number of Nondetect	Number of Samples	Percent of Nondetect	Maximum Detected Effluent Concentration	Maximum Reported Effluent Concentration (max MDL if 100% ND or max MDL > max detect)	Standard Deviation	Mean	CV (set as 0.6 if nondetect >80%)	Multiplier	Projected Maximum Effluent Concentration (99/99)	Dilution Ratio	Background Seawater Concentration	Projected Maximum Receiving Water Concentration
Halomethanes	µg/L	8	24	33%	3.81	3.81	0.7768	4.8988	0.1586	1.24492	4.74313795	13		0.338796
CHLOROMETHANE	µg/L													
BROMOMETHANE	µg/L													
BROMOFORM	µg/L													
HEPTACHLOR*	µg/L	24	24	100%		0.005			0.6	2.16166	0.01080828	13		0.000772
HEPTACHLOR EPOXIDE*	µg/L	24	24	100%		0.0018			0.6	2.16166	0.00389098	13		0.000278
HEXACHLOROBENZENE*	µg/L	24	24	100%		1			0.6	2.16166	2.16165612	13		0.154404
HEXACHLOROBUTADIENE	µg/L	24	24	100%		2			0.6	2.16166	4.32331224	13		0.308808
HEXACHLOROETHANE	µg/L	24	24	100%		2			0.6	2.16166	4.32331224	13		0.308808
ISOPHORONE	µg/L	18	24	75%	0.33	4	0.9095	5.6141	0.1620	1.25078	5.00310272	13		0.357364
N-NITROSODIMETHYLAMINE	µg/L	24	24	100%		3			0.6	2.16166	6.48496836	13		0.463212
N-NITROSODI-N-PROPYLAMINE*	µg/L	24	24	100%		4.5			0.6	2.16166	9.72745254	13		0.694818
N-NITROSODIPHENYLAMINE	µg/L	24	24	100%		1			0.6	2.16166	2.16165612	13		0.154404
PAHs*	µg/L	22	24	92%	1.58	2			0.6	2.16166	4.32331224	13		0.308808
ACENAPHTHYLENE	µg/L													
ANTHRACENE	µg/L													
BENZO(A) ANTHRACENE	µg/L													
BENZO(B) FLUORANTHENE	µg/L													
BENZO(K) FLUORANTHENE	µg/L													
1,12-BENZOPERYLENE	µg/L													
BENZO(A) PYRENE	µg/L													
CHRYSENE	µg/L													
1,2:5,6-DIBENZANTHRACENE	µg/L													
FLUORENE	µg/L													
INDENO (1,2,3-CD) PYRENE	µg/L													
PHENANTHRENE	µg/L													
PYRENE	µg/L													

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Ocean Plan Water Quality Objectives	REASONABLE POTENTIAL (RP)	Calculated Effluent Limitations (EfflLt)	Maximum MDL Reported (Jan 2003 - Jun 2004)	Performance Goals (PG) = MDLx 5 (for carcinogens) or 10 (for noncarcinogens)	PG = 95th Percentile (if nondetect < 80%)	Maximum Detected Effluent Concentration	Proposed Effluent Limits	Possible PG	Proposed PG	Basis for PG
Halomethanes	µg/L	130	No	1820	0.28	1.4	**1.3**	3.81	No Limit	1.3	**1.3**	95th percentile
CHLOROMETHANE	µg/L											
BROMOMETHANE	µg/L											
BROMOFORM	µg/L											
HEPTACHLOR*	µg/L	0.00005	**Yes**	**0.0007**	0.002	0.01		ND	**0.0007**	0.01	**No PG**	--
HEPTACHLOR EPOXIDE*	µg/L	0.00002	**Yes**	**0.00028**	0.0018	0.009		ND	**0.00028**	0.009	**No PG**	--
HEXACHLOROBENZENE*	µg/L	0.00021	**Yes**	**0.00294**	0.07	0.35		ND	**0.00294**	0.35	**No PG**	--
HEXACHLOROBUTADIENE	µg/L	14	No	196	0.07	0.35		ND	No Limit	0.35	**0.35**	from MDL
HEXACHLOROETHANE	µg/L	2.5	No	35	0.07	0.35		ND	No Limit	0.35	**0.35**	from MDL
ISOPHORONE	µg/L	730	No	10220	0.07	0.35	**5.8**	0.33	No Limit	0.33	**0.33**	Max eff conc
N-NITROSODIMETHYLAMINE	µg/L	7.3	No	102.2	0.17	0.85		ND	No Limit	0.85	**0.85**	from MDL
N-NITROSODI-N-PROPYLAMINE*	µg/L	0.38	**Yes**	**5.32**	0.13	0.65		ND	**5.32**	0.65	**0.65**	from MDL
N-NITROSODIPHENYLAMINE	µg/L	2.5	No	35	0.09	0.45		ND	No Limit	0.45	**0.45**	from MDL
PAHs*	µg/L	0.0088	**Yes**	**0.1232**	0.19	0.95		1.58	**0.1232**	0.95	**No PG**	--
ACENAPHTHYLENE	µg/L											
ANTHRACENE	µg/L											
BENZO(A) ANTHRACENE	µg/L											
BENZO(B) FLUORANTHENE	µg/L											
BENZO(K) FLUORANTHENE	µg/L											
1,12-BENZOPERYLENE	µg/L											
BENZO(A) PYRENE	µg/L											
CHRYSENE	µg/L											
1,2:5,6-DIBENZANTHRACENE	µg/L											
FLUORENE	µg/L											
INDENO (1,2,3-CD) PYRENE	µg/L											
PHENANTHRENE	µg/L											
PYRENE	µg/L											

Underlined numbers used in the calculation are one-half of detection limits for data showing less than MDL results.
* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Jan-99	Apr-99	Jul-99	Oct-99	Jan-00	Apr-00	Jul-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Jan-02	Apr-02
PCBs*	ng/L	<65	<65	<65	<65	<65	<65	<65	<65	<65	<65	<65	<65	<65	<65
PCB 1016	ng/L	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46
PCB 1221	ng/L	<34	<34	<34	<34	<34	<34	<34	<34	<34	<34	<34	<34	<34	<34
PCB 1232	ng/L	<33	<33	<33	<33	<33	<33	<33	<33	<33	<33	<33	<33	<33	<33
PCB 1242	ng/L	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
PCB 1248	ng/L	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57
PCB 1254	ng/L	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PCB 1260	ng/L	<65	<65	<65	<65	<65	<65	<65	<65	<65	<65	<65	<65	<65	<65
TCDD equivalents*	ng/L	<0.87		<0.058		0.069		<0.140		<0.230		<0.500		<0.082	
1,1,2,2-TETRACHLOROETHANE	µg/L	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	<0.119	<0.119	<0.119	<0.119	<0.119	<0.119	<0.119
TETRACHLOROETHENE*	µg/L	**3.09**	**7.47**	**2.00**	**6.85**	**7.81**	**1.78**	**2.17**	**1.59**	**3.65**	**1.44**	**2.47**	**2.02**	**0.956**	**4.167**
TOXAPHENE*	µg/L	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113	<0.113
TRICHLOROETHENE	µg/L	<0.078	0.53	<0.078	0.333	<0.078	<0.078	<0.078	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106
1,1,2-TRICHLOROETHANE	µg/L	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.085	<0.085	<0.085	<0.085	<0.085	<0.085	<0.085
2,4,6-TRICHLOROPHENOL*	µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
VINYL CHLORIDE	µg/L	<0.167	<0.167	<0.167	<0.167	<0.167	<0.167	<0.167	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154

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Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Jul-02	Oct-02	Jan-03	Apr-03	Jun-03	Jul-03	Oct-03	January 1, 2004	January 27, 2004	Apr-04	Jun-04
PCBs*	ng/L	<40	<40	<300	<300		<300	<300	<300	<490	<300	<300
PCB 1016	ng/L	<20	<20	<80	<80		<80	<80	<80	<60	<80	<80
PCB 1221	ng/L	<30	<30	<300	<300		<300	<300	<300	<490	<300	<300
PCB 1232	ng/L	<20	<20	<40	<40		<40	<40	<40	<100	<40	<40
PCB 1242	ng/L	<40	<40	<50	<50		<50	<50	<50	<200	<50	<50
PCB 1248	ng/L	<20	<20	<120	<120		<120	<120	<120	<100	<120	<120
PCB 1254	ng/L	<10	<10	<50	<50		<50	<50	<50	<20	<50	<50
PCB 1260	ng/L	<30	<30	<100	<100		<100	<100	<100	<70	<100	<100
TCDD equivalents*	ng/L		<0.46	<1.4	<0.070		<0.28	<0.1	<0.097		<0.36	
1,1,2,2-TETRACHLOROETHANE	µg/L	<0.2	<0.2	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
TETRACHLOROETHENE*	µg/L	**0.8**	**1.39**	**1.86**	**2.4**	**0.96**	**1**	**2.21**	**1.31**	**1.91**	**3.27**	**19.2**
TOXAPHENE*	µg/L	<0.09	<0.09	<0.13	<0.13		<0.13	<0.13	<0.1	<0.1	<0.1	<0.1
TRICHLOROETHENE	µg/L	<0.2	<0.2	<0.07	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
1,1,2-TRICHLOROETHANE	µg/L	<0.2	<0.2	<0.17	<0.14		<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
2,4,6-TRICHLOROPHENOL*	µg/L	<1	<1	<0.09	<0.09		<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
VINYL CHLORIDE	µg/L	<0.05	<0.05	<0.17	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08

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* These constituents showed RPs.

Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Number of Nondetect	Number of Samples	Percent of Nondetect	Maximum Detected Effluent Concentration	Maximum Reported Effluent Concentration (max MDL if 100% ND or max MDL > max detect)	Standard Deviation	Mean	CV (set as 0.6 if nondetect >80%)	Multiplier	Projected Maximum Effluent Concentration (99/99)	Dilution Ratio	Background Seawater Concentration	Projected Maximum Receiving Water Concentration
PCBs*	ng/L	24	24	100%		300			0.6	2.16166	648.496836	13		46.3212
PCB 1016	ng/L													
PCB 1221	ng/L													
PCB 1232	ng/L													
PCB 1242	ng/L													
PCB 1248	ng/L													
PCB 1254	ng/L													
PCB 1260	ng/L													
TCDD equivalents*	ng/L	13	14	93%	0.069	1.4			0.6	2.63086	3.68320532	13		0.263086
1,1,2,2-TETRACHLOROETHANE	µg/L	25	25	100%		0.2			0.6	2.1319	0.42637931	13		0.030456
TETRACHLOROETHENE*	µg/L	0	25	0%	19.2	19.2	3.8411	5.7296	0.6704	2.2973	44.1080839	13		3.150577
TOXAPHENE*	µg/L	24	24	100%		0.13			0.6	2.16166	0.2810153	13		0.020073
TRICHLOROETHENE	µg/L	23	25	92%	0.53	0.53			0.6	2.1319	1.12990516	13		0.080708
1,1,2-TRICHLOROETHANE	µg/L	24	24	100%		0.2			0.6	2.16166	0.43233122	13		0.030881
2,4,6-TRICHLOROPHENOL*	µg/L	24	24	100%		3			0.6	2.16166	6.48496836	13		0.463212
VINYL CHLORIDE	µg/L	25	25	100%		0.17			0.6	2.1319	0.36242241	13		0.025887

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Table R1-2

REASONABLE POTENTIAL ANALYSIS
HYPERION TREATMENT PLANT (OUTFALL 001)
(CA0109991, CI-1492)

Constituent	Unit	Ocean Plan Water Quality Objectives	REASONABLE POTENTIAL (RP)	Calculated Effluent Limitations (EffLt)	Maximum MDL Reported (Jan 2003 - Jun 2004)	Performance Goals (PG) = MDLx 5 (for carcinogens) or 10 (for noncarcinogens)	PG = 95th Percentile (if nondetect < 80%)	Maximum Detected Effluent Concentration	Proposed Effluent Limits	Possible PG	Proposed PG	Basis for PG
PCBs*	ng/L	0.019	Yes	0.266	300	1500		ND	0.266	1500	No PG	--
PCB 1016	ng/L											
PCB 1221	ng/L											
PCB 1232	ng/L											
PCB 1242	ng/L											
PCB 1248	ng/L											
PCB 1254	ng/L											
PCB 1260	ng/L											
TCDD equivalents*	ng/L	0.0000039	Yes	0.0000546	1.4	7		0.069	0.00005	0.069	No PG	--
1,1,2,2-TETRACHLOROETHANE	µg/L	2.3	No	32.2	0.2	1		ND	No Limit	1	1	from MDL
TETRACHLOROETHENE*	µg/L	2.0	Yes	28	0.16	0.8	5.8	19.2	28	5.8	5.8	95th percentile
TOXAPHENE*	µg/L	0.00021	Yes	0.00294	0.13	0.65		ND	0.003	0.65	No PG	--
TRICHLOROETHENE	µg/L	27	No	378	0.17	0.85		0.53	No Limit	0.53	0.53	Max eff conc
1,1,2-TRICHLOROETHANE	µg/L	9.4	No	131.6	0.17	0.85		ND	No Limit	0.85	0.85	from MDL
2,4,6-TRICHLOROPHENOL*	µg/L	0.29	Yes	4.06	0.09	0.45		ND	4.06	0.45	0.45	from MDL
VINYL CHLORIDE	µg/L	36	No	504	0.17	0.85		ND	No Limit	0.85	0.85	from MDL

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* These constituents showed RPs.