

Fact Sheet Attachment J
Responsible Petroleum Analysts
Haynes Consulting Services, Inc.

Notes

U = Undetermined due to lack of CTR W = poor Quality Content
C = Widespread Criticism
B = Backlog and receiving wider distribution

CITE	AQUATIC LIFE CALCULATIONS										LIMITS	Comments
	Subacute / Freshwater / Seashore					Chronic / Seawater						
EC50 water minimising lethal concentrations	LC50 lethal concentrations	EC50 chronic concentrations	LC50 chronic concentrations	EC50 subacute concentrations	LC50 subacute concentrations	AMEL minimising lethal concentrations	AMEL minimising subacute concentrations	MEEL minimising lethal concentrations	MEEL minimising subacute concentrations	Lower AMEL	Upper AMEL	
1	Acetone	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
2	Aldosterone	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
3	Benzene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
4	Chloroform (1,1,1)	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
5a	Chromate (VII)	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
5b	Chromate (VI)	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
6	Copper	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
7	Lead	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
8	Mercury	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
9	Nickel	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
10	Selenium	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
11	Silica	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
12	Thallium	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
13	Zinc	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
14	Cadmium	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
15	Chromium	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
16	Ascorbic acid	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
17	Acetaminophen	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
18	Barbiturates	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
19	Bromadiolone	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
20	Carbon tetrachloride	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
21	Chloroform	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
22	Chlorobromoethane	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
23	Chlorodibromomethane	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
24	Chloroethylene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
25	Chloroform and other	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
26	Chloroform	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
27	Chlorinated aromatic hydrocarbons	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
28	Chlorinated dyes	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
29	Chlorinated phenols	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
30	Chloroform	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
31	Chlorophenoxy herbicides	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
32	Chlorotoluene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
33	Chloroacetylsulfide	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
34	Chloroform and other chlorinated hydrocarbons	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
35	Chloroform and other chlorinated organic compounds	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
36	Chloroform and other chlorinated organic solvents	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
37	Chloroform-chloroethylene mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
38	Chlorination byproducts	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
39	Chloroethylene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
40	Chloroform-Dichloromethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
41	Chloroform-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
42	Chloroform-Dichloroethylene mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
43	Chloroform-Dichloropropane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
44	Chloroform-Dichloroethylene-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
45	Chloroform-Dichloroethylene-Dichloropropane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
46	Chloroform-Dichloroethylene-Dichloroethylene mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
47	Chloroform-Dichloroethylene-Dichloropropane-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
48	1,4-dinitro-2-nitro-1,3-butadiene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
49	1,4-dinitro-2-nitro-1,3-butadiene-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
50	2,4-Dinitrophenol	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
51	4-Nitrophenol	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
52	4-Nitrophenol-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
53	4-Nitrophenol-Dichloroethylene mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
54	4-Nitrophenol-Dichloroethylene-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
55	4-Nitrophenol-Dichloroethylene-Dichloroethylene mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
56	4-Nitrophenol-Dichloroethylene-Dichloropropane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
57	4-Nitrophenol-Dichloropropane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
58	4-Nitrophenol-Dichloropropane-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
59	4-Nitrophenol-Dichloropropane-Dichloroethylene mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
60	4-Nitrophenol-Dichloropropane-Dichloroethylene-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
61	Dichloroacetic acid	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
62	Dichloroacetyl chloride	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
63	Dichloroacetyl dichloroethane	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
64	Dichloroacetyl dichloroethylene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
65	Dichloroacetyl dichloroethylene-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
66	Dichloroacetyl dichloroethylene-Dichloropropane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
67	Dichloroacetyl dichloropropane	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
68	Dichloroacetyl dichloropropane-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
69	Dichloroacetyl dichloropropane-Dichloroethylene mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
70	Dichloroacetyl dichloropropane-Dichloroethylene-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
71	Dichloroacetyl dichloropropane-Dichloropropane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
72	Dichloroacetyl dichloropropane-Dichloropropane-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
73	Dichloroacetyl dichloropropane-Dichloropropane-Dichloroethylene mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
74	Dichloroacetyl dichloropropane-Dichloropropane-Dichloroethylene-Dichloroethane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
75	Dichloroacetyl dichloropropane-Dichloropropane-Dichloroethylene-Dichloropropane mixtures	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
76	1,3-Dichlorobenzene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
77	1,4-Dichlorobenzene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
78	3,3-Dichlorobenzene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
79	Dichloroform	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
80	Dichlorofluoromethane	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
81	Dichloropropene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment
82	Dichlorotoluene	—	—	—	—	—	—	—	—	No AMEL	No AMEL	No comment

CR#	AUTOMATIC LCF CALCULATIONS							LAWNS	RECOMMENDATION	COMMITMENT
	ELCA, Return multiplier (R _i)	LFA multiplier (S _i)	ELCA annual yield (\$/A)	LFA annual yield (\$/A)	Lowest multiplier R _i	AEL multiplier R _i	HDF _i multiplier R _i			
83 2-5-Diprotion Parameters								No Limit		
84 D-G-Cult Pristine								No Limit		
85 2-Chlorotetrachloro								No Limit		
86 Fluorophenoxy								No Limit		
87 Fluorine								No Limit		
88 Hemis-Hydrochloride								No Limit		
89 Hemic-Hydrochloride								No Limit		
90 Hemic-Hydrochloride								No Limit		
91 Hemic-Hydrochloride								No Limit		
92 Hemic-Hydrochloride								No Limit		
93 Hemic-Hydrochloride								No Limit		
94 Hemic-Hydrochloride								No Limit		
95 Hemic-Hydrochloride								No Limit		
96 Hemic-Hydrochloride								No Limit		
97 H-Hydrochloride/Methane								No Limit		
98 H-Hydrochloride/Methane								No Limit		
99 H-Hydrochloride/Methane								No Limit		
100 Hemic-Hydrochloride								No Limit		
101 1,2,4-Trichlorobenzene								No Limit		
102 Aldrin								No Limit		
103 Aldrin-TC								No Limit		
104 Heptachlor								No Limit		
105 Heptachlor-TC								No Limit		
106 Heptachloro-TC								No Limit		
107 Chlordane								No Limit		
108 4,4'-DDT								No Limit		
109 4,4'-DDO (linked to DDT)								No Limit		
110 4,4'-DDO								No Limit		
111 Dieldrin								No Limit		
112 Aldrin-Dichlorofuran								No Limit		
113 Aldrin-Dichlorofuran								No Limit		
114 Endosulfan Sulfate								No Limit		
115 Endosulfan								No Limit		
116 Chlordane								No Limit		
117 Heptachlor								No Limit		
118 Heptachloro-TC								No Limit		
119 Heptachloro-TC								No Limit		
120 Dieldrin								No Limit		
121 Dieldrin								No Limit		
122 Dieldrin-Dichlorofuran								No Limit		
123 Dieldrin-Dichlorofuran								No Limit		
124 Endosulfan Sulfate								No Limit		
125 Endosulfan Sulfate								No Limit		
126 Dieldrin-Dichlorofuran								No Limit		
127 Dieldrin-Dichlorofuran								No Limit		
128 Dieldrin-Dichlorofuran								No Limit		
129 Dieldrin-Dichlorofuran								No Limit		
130 Dieldrin-Dichlorofuran								No Limit		
131 Dieldrin-Dichlorofuran								No Limit		
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136 Dieldrin-Dichlorofuran								No Limit		
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245 Dieldrin-Dichlorofuran								No Limit		
246 Dieldrin-Dichlorofuran								No Limit		
247 Dieldrin-Dichlorofuran		</td								

Fig. 1 Sheet Attachment 1
Hypothetical Residential Station Test Farms
(Test Farm E)

CTR#	Name	Raw Water Quality Criteria (mg/L)	Human Health Use	Contribution (%)	CT & Specific Criteria (mg/L)				Reasonable Potential Analysis (RPA)				Health/Human Health Calculations						
					Raw Water Only	Freshwater	Brackishwater	Groundwater only	MEC	C criteria = C chronic	C criteria = C chronic + C chronic	Criteria = Criteria + Criteria	MEC = MEC + MEC	Time 1 - MEC	Available non-detects	Time 2 - MEC	Time 3 - Criteria	RPA Result	Dose/Hazard only
83	2.5. Disinfectants	0.6	CV	No Criteria						0.54	0.540								
	On-Or-Off Pfitzner	0.6	CV	No Criteria						0.54	0.540								
85	2.6. Chlorination	0.6	CV	No Criteria						0.54	0.540								
	Fluoride	0.6	CV	No Criteria						0.54	0.540								
87	Fluorine	0.6	CV	No Criteria						0.54	0.540								
	Fluoride	0.6	CV	No Criteria						0.54	0.540								
89	Fluoride	0.6	CV	No Criteria						0.54	0.540								
	Fluoride	0.6	CV	No Criteria						0.54	0.540								
90	Fluoride	0.6	CV	No Criteria						0.54	0.540								
	Fluoride	0.6	CV	No Criteria						0.54	0.540								
91	Fluoride	0.6	CV	No Criteria						0.54	0.540								
	Fluoride	0.6	CV	No Criteria						0.54	0.540								
92	Fluoride	0.6	CV	No Criteria						0.54	0.540								
	Fluoride	0.6	CV	No Criteria						0.54	0.540								
93	Fluoride	0.6	CV	No Criteria						0.54	0.540								
	Fluoride	0.6	CV	No Criteria						0.54	0.540								
94	Fluoride	0.6	CV	No Criteria						0.54	0.540								
	Fluoride	0.6	CV	No Criteria						0.54	0.540								
95	Fluoride	0.6	CV	No Criteria						0.54	0.540								
	Fluoride	0.6	CV	No Criteria						0.54	0.540								
96	Fluoride	0.6	CV	No Criteria						0.54	0.540								
	Fluoride	0.6	CV	No Criteria						0.54	0.540								
97	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
98	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
99	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
100	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
101	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
102	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
103	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
104	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
105	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
106	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
107	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
108	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
109	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
110	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
111	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
112	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
113	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
114	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
115	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
116	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
117	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
118	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
119	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
120	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
121	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
122	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
123	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
124	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
125	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
126	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
127	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
128	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
129	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
130	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
131	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540								
	H-hexachloroethane	0.6	CV	No Criteria						0.54	0.540</td								

CIP#	Project Name	AQUATIC LIFE CALCULATIONS										Comments	
		ECO factor multiplier	CIA critique multiplier	LFA critique multiplier	ANEL critique multiplier	AMEL critique multiplier	MOL critique multiplier	MODEL critiq	MODEL rev	Current MODEL	Recommended MODEL		
1	Ashdown	0.32	22.15	0.53	10.90	19.20	1.55	20.45	3.11	59.3900	20.4522	No Limp	
2	Alvord	0.32	22.15	0.53	10.90	19.20	1.55	20.45	3.11	59.3900	20.4522	No Limp	
3	Bethel											No Limp	
4	Californ											No Limp	
5	Chowan (II)	0.32	305.85	0.53	26.95	26.95	1.55	41.23	3.11	82.9200	41.2300	No Limp	
6	Chowan (V)	0.32	1.05	0.53	1.05	1.05	1.55	5.78	3.11	5.78	5.78	No Limp	
7	Cobbet	0.32	70.80	0.53	4.49	4.49	1.55	6.98	3.11	13.9254	6.98	14.00	
8	Lead											No Limp	
9	Mercury	0.32	24.00	0.53	4.37	4.37	1.55	6.72	3.11	13.8113	6.72	No Limp	
10	Near	0.32	24.00	0.53	4.37	4.37	1.55	6.72	3.11	13.8113	6.72	No Limp	
11	Ozone											No Limp	
12	Thermal	0.32	30.55	0.53	45.45	30.55	1.55	47.42	3.11	95.14	47.42	No Limp	
13	Urethane	0.32	0.53	0.53	0.53	0.53	1.55	0.53	3.11	1	0.5300	1.0000	No Limp
14	Albermarle	0.32	0.53	0.53	0.53	0.53	1.55	0.53	3.11	1	0.5300	1.0000	No Limp
15	2.2.7.10GD											No Limp	
16	Acetone											No Limp	
17	Antimony											No Limp	
18	Benzene											No Limp	
19	Boron											No Limp	
20	Butadiene											No Limp	
21	Carbon Tetrachloride											No Limp	
22	Chlorobenzene											No Limp	
23	Chloroform											No Limp	
24	Chromic Acid											No Limp	
25	Chrysene											No Limp	
26	Citrus Oil											No Limp	
27	Cloves											No Limp	
28	Coal Tar											No Limp	
29	2-Dibromoethane											No Limp	
30	1,2-Dibromoethane											No Limp	
31	1,2-Dibromoethylene											No Limp	
32	1,2-Dibromoethane											No Limp	
33	Dibromoacetylene											No Limp	
34	Dibromoethane											No Limp	
35	Mercury Oxide											No Limp	
36	Mercury Sulfide											No Limp	
37	Mercury Thiomalate											No Limp	
38	Mercury Thiosulfate											No Limp	
39	Mercury Trichloride											No Limp	
40	2,4-D											No Limp	
41	2,4-Dichlorophenoxy Acetic Acid											No Limp	
42	2,4-Dichlorophenoxy Ethanol											No Limp	
43	2,4-Dichlorophenoxy Propionic Acid											No Limp	
44	2,4-Dichlorophenoxy Propionic Acid Ethyl Ester											No Limp	
45	2,4-Dichlorophenoxy Propionic Acid Methyl Ester											No Limp	
46	2,4-Dichlorophenoxy Propionic Acid Propyl Ester											No Limp	
47	2,4-Dichlorophenoxy Propionic Acid Stearyl Ester											No Limp	
48	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
49	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
50	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
51	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
52	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
53	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
54	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
55	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
56	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
57	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
58	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
59	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
60	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
61	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
62	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
63	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
64	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
65	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
66	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
67	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
68	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
69	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
70	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
71	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
72	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
73	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
74	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
75	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
76	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
77	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
78	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
79	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
80	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
81	2,4-Dichlorophenoxy Stearyl Ester											No Limp	
82	2,4-Dichlorophenoxy Stearyl Ester											No Limp	

AQUATIC LIFE CALCULATIONS

Fact Sheet Attachment J
Recoverable Petroleum Analysis
Harmless Generating Station Tank Farms
(Tank Farm E)

Ug = Underestimated due to lack of data
 UG = Underestimated due to lack of CTR
 C = Water Country Control
 B = Background reading water data

B = Background Recalculating water data
C = Water Quality Criteria
D = Undetermined due to lack of data
E = Undetermined due to lack of CTR Water Quality Criteria

C-TRK	Parameter	AQUATIC LIFE CALCULATIONS										LIMITS	Labeled MODEL	Presentation/Explanation	Comment
		E.C. Median Worstcase (D.L.)	E.C. Median L.T.A. chronic mitigation efficacy	L.T.A. chronic mitigation efficacy	L.T.A. chronic mitigation efficacy	ANEL mitigation efficacy	ANEL mitigation efficacy	NOEL mitigation efficacy	NOEL mitigation efficacy	ANEL, mg litre	NOEL, mg litre				
1	Aromatic											No Lmt.	No Lmt.	No Lmt.	
2	Alkaline											No Lmt.	No Lmt.	No Lmt.	
3	Acidic											No Lmt.	No Lmt.	No Lmt.	
4	Sulfur											No Lmt.	No Lmt.	No Lmt.	
5	Chlorine (HCl)											No Lmt.	No Lmt.	No Lmt.	
6	Chlorine (NaCl)											No Lmt.	No Lmt.	No Lmt.	
7	Lead	0.32	1.85	0.51	1.97	1.95	1.95	2.00	2.00	3.11	5.76	2.86	5.76	14.80	
8	Manganese	0.32	70.90	0.53	4.49	4.49	1.55	8.98	3.11	13.9864		8.98		No Lmt.	
9	Nickel	0.32	24.00	0.53	4.37	4.37	1.55	8.78	3.11	13.9813		6.7705	13.6070	No Lmt.	
10	Phosphorus											No Lmt.	No Lmt.	No Lmt.	
11	Silicon											No Lmt.	No Lmt.	No Lmt.	
12	Thermal											No Lmt.	No Lmt.	No Lmt.	
13	Chloroform	0.32	30.55	0.53	4.18	30.55	1.55	47.42	3.11	95.14		47.42	95.14	No Lmt.	
14	Dichloroethane											No Lmt.	No Lmt.	No Lmt.	
15	Trichloroethane											No Lmt.	No Lmt.	No Lmt.	
16	1,1,1-Trichloroethane											No Lmt.	No Lmt.	No Lmt.	
17	1,1-Dichloroethane											No Lmt.	No Lmt.	No Lmt.	
18	Boron											No Lmt.	No Lmt.	No Lmt.	
19	Bromobutane											No Lmt.	No Lmt.	No Lmt.	
20	Bromobutene											No Lmt.	No Lmt.	No Lmt.	
21	Chloro Ethyl Ether											No Lmt.	No Lmt.	No Lmt.	
22	Chloroformate											No Lmt.	No Lmt.	No Lmt.	
23	Chloroformate Methyl Ester											No Lmt.	No Lmt.	No Lmt.	
24	Chloroformate Ethyl Ester											No Lmt.	No Lmt.	No Lmt.	
25	Chloroformate Propyl Ester											No Lmt.	No Lmt.	No Lmt.	
26	Chloroformate Butyl Ester											No Lmt.	No Lmt.	No Lmt.	
27	Chloroformate Ethylene Ester											No Lmt.	No Lmt.	No Lmt.	
28	Chloroformate Propylene Ester											No Lmt.	No Lmt.	No Lmt.	
29	Chloroformate Butylene Ester											No Lmt.	No Lmt.	No Lmt.	
30	Chloroformate Ethyl Acetate											No Lmt.	No Lmt.	No Lmt.	
31	Chloroformate Ethyl Acetate Ester											No Lmt.	No Lmt.	No Lmt.	
32	Chloroformate Ethyl Acetate Ethyl Ester											No Lmt.	No Lmt.	No Lmt.	
33	Chloroformate Ethyl Acetate Ethylene Ester											No Lmt.	No Lmt.	No Lmt.	
34	Chloroformate Ethylene Acetate Ester											No Lmt.	No Lmt.	No Lmt.	
35	Chloroformate Ethylene Acetate Ethylene Ester											No Lmt.	No Lmt.	No Lmt.	
36	Chloroformate Ethylene Acetate Ethylene Acetate Ester											No Lmt.	No Lmt.	No Lmt.	
37	Chloroformate Ethylene Acetate Ethylene Acetate Ethylene Ester											No Lmt.	No Lmt.	No Lmt.	
38	Chloroformate Ethylene Acetate Ethylene Acetate Ethylene Acetate Ester											No Lmt.	No Lmt.	No Lmt.	
39	Chloroformate Ethylene Acetate Ethylene Acetate Ethylene Acetate Ethylene Ester											No Lmt.	No Lmt.	No Lmt.	
40	Chloroformate Ethylene Acetate Ethylene Acetate Ethylene Acetate Ethylene Acetate Ester											No Lmt.	No Lmt.	No Lmt.	
41	2,4-Dinitrophenol											No Lmt.	No Lmt.	No Lmt.	
42	2,4-Dinitrophenoxide											No Lmt.	No Lmt.	No Lmt.	

CT#	Description	AQUATIC LIFE CALCULATIONS						LIMITS	Recommendation	Comment
		ECA water multiple (EPA)	LFA chronic multiple (EPA)	ECA acute multiple (EPA)	LFA acute multiple (EPA)	ANEL lower multiple (EPA)	ANEL upper multiple (EPA)	MODEL multiple (EPA)	MODEL multiple (EPA)	
82	2.5 CFS Flow							No Limit		
83	2.5 CFS Flow, 100% Flow Reaches							No Limit		
85	2.5 CFS Flow, 100% Flow Reaches							No Limit		
86	Flow Reaches							No Limit		
87	Flow Reaches							No Limit		
88	Flow Reaches							No Limit		
89	Flow Reaches							No Limit		
90	Flow Reaches							No Limit		
91	Flow Reaches							No Limit		
92	Flow Reaches							No Limit		
93	Flow Reaches							No Limit		
94	Flow Reaches							No Limit		
95	Flow Reaches							No Limit		
96	Flow Reaches							No Limit		
97	Flow Reaches							No Limit		
98	Flow Reaches							No Limit		
99	Flow Reaches							No Limit		
100	Flow Reaches							No Limit		
101	Flow Reaches							No Limit		
102	1.2-4.0 CFS Flow							No Limit		
103	Attn BIC							No Limit		
104	Attn BIC							No Limit		
105	Attn BIC							No Limit		
106	Attn BIC							No Limit		
107	Attn BIC							No Limit		
108	Attn BIC							No Limit		
109	4.0 CFS							No Limit		
110	4.0 CFS, 100% Flow Reaches							No Limit		
111	4.0 CFS							No Limit		
112	4.0 CFS, 100% Flow Reaches							No Limit		
113	4.0 CFS, 100% Flow Reaches							No Limit		
114	4.0 CFS, 100% Flow Reaches							No Limit		
115	Endowments							No Limit		
116	Endowments							No Limit		
117	Endowments							No Limit		
118	Endowments							No Limit		
119	Endowments							No Limit		
120	Endowments							No Limit		
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258	Endowments							No Limit		
259	Endowments							No Limit		
260	Endowments							No Limit		
261	Endowments							No Limit		

Lit = Undetermined due to lack of data
 Uc = Undetermined due to lack of CTR Water Quality Criteria
 G = Higher Quality Criteria
 B = Background (existing water data)

CIR	Parameter	ADJUSTED LIFE CALCULATIONS										LMTS	Current Model	Recommendation	Comment	
		FCI Series No. 1	FCI Series No. 2	LTA Series No. 1	FCI Series No. 2	LTA Series No. 1	LTA Series No. 2	AMFC Series No. 1	AMFC Series No. 2	AMFC Series No. 3	AMFC Series No. 4					
1	Avg. Age															
2	Age Factor															
3	Age Factor															
4	Crashdown															
5	Crashdown (11)															
6	Crashdown (11)															
7	Crashdown (11)															
8	Crashdown (11)															
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FERC Species Attachment J
Renewable Rights of Ancestry
Hemp Growing Along Salmon Farm Farms
(New Farms F and G)

CTR#	Description	AGRICULTURE CALCULATIONS						LIMITS	RECOMMENDATION	COMMENT
		ESCA metric measured	LTA metric	ESCA intelligence metric	LTA intelligence metric	ASAE new member	ASAE new member Rate			
83	2.5-Crop Rotation	0.71						No Limit	No Limit	
84	3-Crop Rotation							No Limit	No Limit	
85	1-2-Crop Rotation							No Limit	No Limit	
86	Prohibition							No Limit	No Limit	
87	Prohibition							No Limit	No Limit	
88	Prohibition							No Limit	No Limit	
89	Prohibition							No Limit	No Limit	
90	House/House Construction							No Limit	No Limit	
91	Residential Construction							No Limit	No Limit	
92	Commercial Construction							No Limit	No Limit	
93	Industrial Construction							No Limit	No Limit	
94	Commercial							No Limit	No Limit	
95	Industrial							No Limit	No Limit	
96	Residential							No Limit	No Limit	
97	Non-residential Residential							No Limit	No Limit	
98	Non-residential Residential							No Limit	No Limit	
99	Commercial							No Limit	No Limit	
100	Residential							No Limit	No Limit	
101	1-2-3 Crop Rotation							No Limit	No Limit	
102	ASAE							No Limit	No Limit	
103	ASAE-DNC							No Limit	No Limit	
104	ASAE-HIC							No Limit	No Limit	
105	ASAE-MIC							No Limit	No Limit	
106	ASAE-SIC							No Limit	No Limit	
107	ASAE-TIC							No Limit	No Limit	
108	ASAE-UIC							No Limit	No Limit	
109	ASAE-VIC							No Limit	No Limit	
110	4-5-6 Crop Rotation	0.01						No Limit	No Limit	
111	Domestic							No Limit	No Limit	
112	Agri-Educational							No Limit	No Limit	
113	Agri-Educational							No Limit	No Limit	
114	Education/Schools							No Limit	No Limit	
115	Events							No Limit	No Limit	
116	Events/Activities							No Limit	No Limit	
117	Entertainment							No Limit	No Limit	
118	Entertainment Events							No Limit	No Limit	
119	Food							No Limit	No Limit	
120	Food and Farm							No Limit	No Limit	
121	Food/Farm							No Limit	No Limit	
122	Food/Farm							No Limit	No Limit	

Note:
NA = Undetermined data to back up data
NA = Undetermined data to back up CTR#
C = When Quality Criteria
B = Recommended Reporting Value Data