Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	Pondwide					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.009	0.01	0.005	0.007	0.01	0.02
BTAG TRVs	0.001	0.006	0.0007	0.003	0.004	0.06
Cadmium						
ERA TRVs	1	**5**	0.4	1	0.1	1
BTAG TRVs	0.6	**83**	0.3	**34**	0.4	**18**
Cobalt						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0
Copper						
ERA TRVs	0.6	**2**	0.2	0.5	0.1	0.2
BTAG TRVs	0.1	**3**	0.05	1	0.002	0.4
Lead						
ERA TRVs	0.2	0.4	0.02	0.04	0.006	0.01
BTAG TRVs	0.07	**46**	0.009	**5**	0.0002	0.05
Manganese						
ERA TRVs	0.2	0.4	0.05	0.1	0.07	0.2
BTAG TRVs	0.09	0.9	0.03	0.3	0.07	0.8
Nickel						
ERA TRVs	0.4	1	0.04	0.1	0.2	0.4
BTAG TRVs	0.1	**6**	0.02	0.8	0.02	**5**
Pesticides						
4,4'-DDD						
ERA TRVs	0.007	0.07	0.002	0.02	0.004	0.02
BTAG TRVs	0.01	**2**	0.005	0.8	0.0002	0.004
4,4'-DDE						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDT						
ERA TRVs	0.004	0.04	0.001	0.01	0.002	0.01
BTAG TRVs	0.006	0.9	0.002	0.4	0.00009	0.002
Total DDT						
ERA TRVs	0.01	0.1	0.004	0.04	0.006	0.03
BTAG TRVs	0.02	**3**	0.007	1	0.0003	0.005
Heptachlor						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	Stormwater Impoundments					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.01	0.02	0.006	0.01	0.02	0.03
BTAG TRVs	0.002	0.008	0.001	0.004	0.006	0.09
Cadmium						
ERA TRVs	1	**4**	0.3	1	0.1	1
BTAG TRVs	0.5	**71**	0.2	**29**	0.4	**16**
Cobalt						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0
Copper						
ERA TRVs	0.6	**2**	0.2	0.5	0.1	0.2
BTAG TRVs	0.1	**3**	0.05	1	0.002	0.4
Lead						
ERA TRVs	0.2	0.4	0.02	0.03	0.005	0.01
BTAG TRVs	0.07	**44**	0.008	**5**	0.0002	0.05
Manganese						
ERA TRVs	0.2	0.4	0.05	0.1	0.07	0.2
BTAG TRVs	0.09	0.9	0.03	0.3	0.06	0.7
Nickel						
ERA TRVs	0.3	0.8	0.03	0.1	0.2	0.3
BTAG TRVs	0.1	**4**	0.01	0.6	0.02	**4**
Pesticides						
4,4'-DDD						
ERA TRVs	0.007	0.07	0.002	0.02	0.004	0.02
BTAG TRVs	0.01	**2**	0.005	0.8	0.0002	0.004
4,4'-DDE						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDT						
ERA TRVs	0.004	0.04	0.001	0.01	0.002	0.01
BTAG TRVs	0.006	0.9	0.002	0.4	0.00009	0.002
Total DDT						
ERA TRVs	0.01	0.1	0.004	0.04	0.006	0.03
BTAG TRVs	0.02	**3**	0.007	1	0.0003	0.005
Heptachlor						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	A-series Ponds					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	**3**	**4**	0.9	**2**	0.01	0.02
BTAG TRVs	0.1	0.4	0.04	0.2	0.004	0.06
Cadmium						
ERA TRVs	0.8	**3**	0.2	1	0.2	**2**
BTAG TRVs	0.4	**58**	0.2	**22**	0.5	**23**
Cobalt						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0
Copper						
ERA TRVs	1	**4**	0.4	1	0.1	0.2
BTAG TRVs	0.1	**3**	0.05	1	0.002	0.5
Lead						
ERA TRVs	0.2	0.4	0.01	0.03	0.006	0.01
BTAG TRVs	0.07	**45**	0.006	**4**	0.0002	0.05
Manganese						
ERA TRVs	**3**	**6**	0.9	**2**	0.09	0.2
BTAG TRVs	0.3	**3**	0.1	1	0.08	0.9
Nickel						
ERA TRVs	0.7	**2**	0.1	0.4	0.2	0.4
BTAG TRVs	0.2	**7**	0.02	1	0.02	**6**
Pesticides						
4,4'-DDD						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDE						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDT						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
Total DDT						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
Heptachlor						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	Pond A-5					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.01	0.02	0.007	0.01	0.02	0.03
BTAG TRVs	0.002	0.008	0.001	0.004	0.006	0.09
Cadmium						
ERA TRVs	**3**	**12**	0.9	**4**	0.4	**4**
BTAG TRVs	**2**	**214**	0.7	**88**	1	**47**
Cobalt						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0
Copper						
ERA TRVs	0.9	**3**	0.2	0.6	0.2	0.3
BTAG TRVs	0.2	**5**	0.07	1	0.002	0.6
Lead						
ERA TRVs	0.000009	0.00002	0.000005	0.00001	0.000002	0.000004
BTAG TRVs	0.000003	0.002	0.000002	0.001	0.00000008	0.00002
Manganese						
ERA TRVs	0.3	0.7	0.09	0.2	0.1	0.4
BTAG TRVs	0.2	**2**	0.06	0.6	0.1	1
Nickel						
ERA TRVs	0.6	**2**	0.06	0.2	0.3	0.6
BTAG TRVs	0.2	**10**	0.03	1	0.03	**8**
Pesticides						
4,4'-DDD						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDE						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDT						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
Total DDT						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
Heptachlor						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	Pond 13					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.01	0.02	0.006	0.01	0.02	0.03
BTAG TRVs	0.002	0.008	0.001	0.004	0.006	0.09
Cadmium						
ERA TRVs	0.5	**2**	0.2	0.7	0.07	0.7
BTAG TRVs	0.3	**40**	0.1	**16**	0.2	**9**
Cobalt						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0
Copper						
ERA TRVs	0.6	**2**	0.2	0.5	0.1	0.2
BTAG TRVs	0.1	**3**	0.05	1	0.002	0.4
Lead						
ERA TRVs	0.2	0.4	0.02	0.03	0.005	0.01
BTAG TRVs	0.07	**44**	0.008	**5**	0.0002	0.05
Manganese						
ERA TRVs	0.1	0.3	0.04	0.08	0.05	0.2
BTAG TRVs	0.07	0.7	0.02	0.2	0.05	0.6
Nickel						
ERA TRVs	0.3	1	0.03	0.1	0.2	0.3
BTAG TRVs	0.1	**5**	0.02	0.7	0.02	**4**
Pesticides						
4,4'-DDD						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDE						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDT						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
Total DDT						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
Heptachlor						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	Pond 18					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.004	0.006	0.002	0.003	0.005	0.009
BTAG TRVs	0.0006	0.003	0.0003	0.001	0.002	0.03
Cadmium						
ERA TRVs	0.9	**4**	0.3	1	0.1	1
BTAG TRVs	0.5	**67**	0.2	**27**	0.3	**15**
Cobalt						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0
Copper						
ERA TRVs	0.9	**3**	0.2	0.6	0.2	0.3
BTAG TRVs	0.2	**5**	0.06	1	0.002	0.6
Lead						
ERA TRVs	0.3	0.5	0.02	0.05	0.007	0.01
BTAG TRVs	0.1	**61**	0.01	**7**	0.0003	0.06
Manganese						
ERA TRVs	0.1	0.2	0.03	0.06	0.04	0.1
BTAG TRVs	0.05	0.5	0.02	0.2	0.04	0.4
Nickel						
ERA TRVs	0.4	1	0.04	0.1	0.2	0.4
BTAG TRVs	0.2	**7**	0.02	0.9	0.02	**6**
Pesticides						
4,4'-DDD						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDE						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDT						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
Total DDT						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
Heptachlor						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	RCF Pond					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.007	0.01	0.004	0.006	0.01	0.02
BTAG TRVs	0.001	0.005	0.0006	0.003	0.004	0.05
Cadmium						
ERA TRVs	0.3	1	0.08	0.3	0.03	0.3
BTAG TRVs	0.2	**20**	0.06	**8**	0.1	**4**
Cobalt						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0
Copper						
ERA TRVs	0.6	**2**	0.2	0.5	0.1	0.2
BTAG TRVs	0.1	**3**	0.05	1	0.002	0.4
Lead						
ERA TRVs	0.2	0.4	0.02	0.04	0.006	0.01
BTAG TRVs	0.07	**46**	0.009	**5**	0.0002	0.05
Manganese						
ERA TRVs	0.3	0.6	0.07	0.2	0.1	0.3
BTAG TRVs	0.1	1	0.05	0.5	0.09	1
Nickel						
ERA TRVs	0.2	0.6	0.02	0.07	0.1	0.2
BTAG TRVs	0.07	**3**	0.01	0.4	0.01	**3**
Pesticides						
4,4'-DDD						
ERA TRVs	0.007	0.07	0.002	0.02	0.004	0.02
BTAG TRVs	0.01	**2**	0.005	0.8	0.0002	0.004
4,4'-DDE						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	0	0	0	0	0	0
4,4'-DDT						
ERA TRVs	0.004	0.04	0.001	0.01	0.002	0.01
BTAG TRVs	0.006	0.9	0.002	0.4	0.00009	0.002
Total DDT						
ERA TRVs	0.01	0.1	0.004	0.04	0.006	0.03
BTAG TRVs	0.02	**3**	0.007	1	0.0003	0.005
Heptachlor						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	North Drainage					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.002	0.003	0.00005	0.00009	0.0002	0.0003
BTAG TRVs	0.0003	0.001	0.00001	0.00005	0.00007	0.001
Cadmium						
ERA TRVs	0.7	**3**	0.3	1	0.3	**3**
BTAG TRVs	0.4	**48**	0.2	**25**	0.9	**38**
Cobalt						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0
Copper						
ERA TRVs	0.6	**2**	0.3	0.9	0.4	0.7
BTAG TRVs	0.1	**3**	0.07	**2**	0.006	1
Lead						
ERA TRVs	0.6	1	0.2	0.4	0.04	0.08
BTAG TRVs	0.2	**131**	0.09	**59**	0.002	0.4
Manganese						
ERA TRVs	0.4	0.8	0.1	0.3	0.2	0.7
BTAG TRVs	0.2	**2**	0.09	0.9	0.2	**3**
Nickel						
ERA TRVs	0.4	1	0.1	0.4	0.6	1
BTAG TRVs	0.1	**6**	0.07	**3**	0.07	**16**
Pesticides						
4,4'-DDD						
ERA TRVs	0.00008	0.0008	0.00003	0.0003	0.00004	0.0002
BTAG TRVs	0.0001	0.02	0.00005	0.009	0.000002	0.00004
4,4'-DDE						
ERA TRVs	0.00003	0.0003	0.000009	0.00009	0.00001	0.00007
BTAG TRVs	0.0001	0.007	0.00004	0.003	0.0000006	0.00001
4,4'-DDT						
ERA TRVs	0.00005	0.0005	0.00002	0.0002	0.00003	0.0001
BTAG TRVs	0.00007	0.01	0.00003	0.005	0.000001	0.00002
Total DDT						
ERA TRVs	0.0001	0.001	0.00005	0.0005	0.00008	0.0004
BTAG TRVs	0.0003	0.04	0.0001	0.02	0.000004	0.00008
Heptachlor						
ERA TRVs	0.00001	0.0001	0.000004	0.00004	0.000002	0.0001
BTAG TRVs	--	--	--	--	0.000002	0.0001

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	A Drainage					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.0008	0.001	0.00003	0.00004	0.00009	0.0001
BTAG TRVs	0.0001	0.0005	0.000006	0.00002	0.00003	0.0005
Cadmium						
ERA TRVs	0.2	0.6	0.08	0.3	0.07	0.7
BTAG TRVs	0.09	**12**	0.05	**6**	0.2	**9**
Cobalt						
ERA TRVs	0.0003	0.0005	0.00001	0.00002	0.00001	0.00003
BTAG TRVs	--	--	--	--	0.00001	0.0002
Copper						
ERA TRVs	0.4	1	0.2	0.6	0.3	0.4
BTAG TRVs	0.1	**2**	0.05	1	0.004	0.9
Lead						
ERA TRVs	0.6	1	0.2	0.4	0.04	0.08
BTAG TRVs	0.2	**143**	0.1	**64**	0.002	0.4
Manganese						
ERA TRVs	0.7	**2**	0.3	0.6	0.7	**2**
BTAG TRVs	0.3	**3**	0.2	**2**	0.6	**7**
Nickel						
ERA TRVs	0.3	0.8	0.09	0.3	0.4	0.7
BTAG TRVs	0.1	**4**	0.04	**2**	0.04	**9**
Pesticides						
4,4'-DDD						
ERA TRVs	0.0005	0.005	0.0002	0.002	0.0008	0.004
BTAG TRVs	0.0007	0.1	0.0004	0.06	0.00004	0.0007
4,4'-DDE						
ERA TRVs	0.0003	0.003	0.0001	0.001	0.0004	0.002
BTAG TRVs	0.001	0.08	0.0006	0.04	0.00002	0.0004
4,4'-DDT						
ERA TRVs	0.0002	0.002	0.0001	0.001	0.0003	0.002
BTAG TRVs	0.0003	0.05	0.0002	0.03	0.00002	0.0003
Total DDT						
ERA TRVs	0.001	0.01	0.0005	0.005	0.002	0.008
BTAG TRVs	0.002	0.2	0.001	0.1	0.00007	0.001
Heptachlor						
ERA TRVs	0.00007	0.0007	0.00004	0.0004	0.00004	0.002
BTAG TRVs	--	--	--	--	0.00004	0.002

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	Lower C Drainage					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.00004	0.00006	0.000001	0.000002	0.000004	0.000007
BTAG TRVs	0.000006	0.00002	0.0000003	0.000001	0.000002	0.00002
Cadmium						
ERA TRVs	0.1	0.5	0.05	0.2	0.04	0.4
BTAG TRVs	0.07	**9**	0.03	**4**	0.1	**5**
Cobalt						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0
Copper						
ERA TRVs	0.5	**2**	0.2	0.7	0.3	0.5
BTAG TRVs	0.1	**3**	0.06	1	0.004	1
Lead						
ERA TRVs	0.03	0.06	0.01	0.03	0.006	0.01
BTAG TRVs	0.01	**7**	0.006	**3**	0.0002	0.06
Manganese						
ERA TRVs	0.6	1	0.3	0.6	0.7	**2**
BTAG TRVs	0.3	**3**	0.1	1	0.6	**8**
Nickel						
ERA TRVs	0.3	1	0.1	0.4	0.4	0.9
BTAG TRVs	0.1	**5**	0.06	**2**	0.05	**11**
Pesticides						
4,4'-DDD						
ERA TRVs	0.0005	0.005	0.0002	0.002	0.0008	0.004
BTAG TRVs	0.0007	0.1	0.0004	0.06	0.00004	0.0007
4,4'-DDE						
ERA TRVs	0.001	0.01	0.0006	0.006	0.002	0.01
BTAG TRVs	0.004	0.3	0.002	0.1	0.00009	0.002
4,4'-DDT						
ERA TRVs	0.00009	0.0009	0.00005	0.0005	0.0002	0.0008
BTAG TRVs	0.0001	0.02	0.00007	0.01	0.000008	0.0002
Total DDT						
ERA TRVs	0.002	0.02	0.0008	0.008	0.003	0.02
BTAG TRVs	0.005	0.4	0.003	0.2	0.0001	0.003
Heptachlor						
ERA TRVs	0.00002	0.0002	0.000006	0.00006	0.000003	0.0002
BTAG TRVs	--	--	--	--	0.000003	0.0002

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	Upper C Drainage					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.0003	0.0005	0.00001	0.00002	0.00003	0.00005
BTAG TRVs	0.00005	0.0002	0.000002	0.000009	0.00001	0.0002
Cadmium						
ERA TRVs	0.3	1	0.1	0.5	0.08	0.8
BTAG TRVs	0.2	**21**	0.08	**10**	0.2	**11**
Cobalt						
ERA TRVs	0.00007	0.0001	0.000002	0.000003	0.000002	0.000006
BTAG TRVs	--	--	--	--	0.000002	0.00003
Copper						
ERA TRVs	0.7	**2**	0.3	0.9	0.3	0.6
BTAG TRVs	0.2	**4**	0.08	**2**	0.005	1
Lead						
ERA TRVs	0.0006	0.001	0.00002	0.00004	0.00001	0.00002
BTAG TRVs	0.0002	0.1	0.00001	0.006	0.0000004	0.0001
Manganese						
ERA TRVs	0.2	0.5	0.1	0.2	0.3	0.9
BTAG TRVs	0.1	1	0.06	0.6	0.3	**3**
Nickel						
ERA TRVs	0.4	1	0.2	0.5	0.6	1
BTAG TRVs	0.2	**7**	0.07	**3**	0.06	**14**
Pesticides						
4,4'-DDD						
ERA TRVs	0.0006	0.006	0.0003	0.003	0.0008	0.004
BTAG TRVs	0.0009	0.1	0.0004	0.07	0.00004	0.0007
4,4'-DDE						
ERA TRVs	0.0006	0.006	0.0003	0.003	0.0008	0.004
BTAG TRVs	0.002	0.1	0.001	0.07	0.00004	0.0008
4,4'-DDT						
ERA TRVs	0.00009	0.0009	0.00003	0.0003	0.00005	0.0003
BTAG TRVs	0.0001	0.02	0.00006	0.01	0.000002	0.00005
Total DDT						
ERA TRVs	0.001	0.01	0.0006	0.006	0.002	0.009
BTAG TRVs	0.003	0.3	0.002	0.2	0.00008	0.002
Heptachlor						
ERA TRVs	0.0001	0.001	0.00007	0.0007	0.00007	0.004
BTAG TRVs	--	--	--	--	0.00007	0.004

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

	B Drainage					
	Aquatic Invertivorous Bird (Wading Bird)		Aquatic Invertivorous Bird (Duck)		Aquatic Invertivorous Mammal	
	Killdeer		Mallard		Raccoon	
Sitewide CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ
Inorganics						
Arsenic						
ERA TRVs	0.0003	0.0005	0.00001	0.00002	0.00004	0.00006
BTAG TRVs	0.00005	0.0002	0.000002	0.000009	0.00001	0.0002
Cadmium						
ERA TRVs	0.4	**2**	0.2	0.8	0.2	**2**
BTAG TRVs	0.2	**31**	0.1	**16**	0.5	**23**
Cobalt						
ERA TRVs	0	0	0	0	0	0
BTAG TRVs	--	--	--	--	0	0
Copper						
ERA TRVs	0.5	**2**	0.2	0.7	0.3	0.5
BTAG TRVs	0.1	**3**	0.06	1	0.005	1
Lead						
ERA TRVs	0.5	1	0.2	0.3	0.03	0.06
BTAG TRVs	0.2	**119**	0.08	**53**	0.001	0.3
Manganese						
ERA TRVs	0.2	0.4	0.08	0.2	0.2	0.4
BTAG TRVs	0.1	1	0.05	0.5	0.1	**2**
Nickel						
ERA TRVs	0.3	1	0.1	0.4	0.5	0.9
BTAG TRVs	0.1	**5**	0.06	**2**	0.05	**12**
Pesticides						
4,4'-DDD						
ERA TRVs	0.001	0.01	0.0006	0.006	0.002	0.01
BTAG TRVs	0.002	0.3	0.0009	0.1	0.0001	0.002
4,4'-DDE						
ERA TRVs	0.001	0.01	0.0007	0.007	0.002	0.01
BTAG TRVs	0.005	0.3	0.003	0.2	0.0001	0.002
4,4'-DDT						
ERA TRVs	0.0003	0.003	0.0002	0.002	0.0007	0.003
BTAG TRVs	0.0005	0.09	0.0003	0.05	0.00003	0.0006
Total DDT						
ERA TRVs	0.003	0.03	0.001	0.01	0.005	0.03
BTAG TRVs	0.007	0.7	0.004	0.4	0.0002	0.005
Heptachlor						
ERA TRVs	0.00006	0.0006	0.00003	0.0003	0.00004	0.002
BTAG TRVs	--	--	--	--	0.00004	0.002

Table U-22

Comparison of Risk Estimates using ERA and BTAG TRVs for Aquatic Wildlife

Based on Non-Spatial Exposure Point Concentrations

CPEC = Constituent of Potential Ecological Concern
HQ = Hazard Quotient (unitless)
HQ = Sum of Intakes (mg/kg-d) / Toxicity Reference Value (mg/kg-d)
Low HQ = Hazard Quotient based on LOAEL-based toxicity reference value.
High HQ = Hazard Quotient based on NOAEL-based toxicity reference value.
TRV = Toxicity Reference Value
ERA = Ecological Risk Assessment
BTAG = USEPA Region 9 Biological Technical Assistance Group Recommended TRVs (USEPA, 2002).
NSC = Not a sitewide CPEC
NAC = Not a CPEC in the subarea
"--" = No HQ calculated because no toxicity reference value available or
compound was not a CPEC in the matrix.
An HQ value of 0.0 indicates sum of intakes = 0.0.

HQ > 1